SAR TEST REPORT

Application No.:	SZCR2607003376WM
Applicant:	Chengdu Xiaochen Technology Co., Ltd
Address of Applicant:	3rd Floor,Building B6,Ganzhizhongguo Chengdu Center,No.777 HuafuAvenue Shuangliu County,Chengdu City, Sichuan Province, China
Manufacturer:	Chengdu Xiaochen Technology Co., Ltd
Address of Manufacturer:	3rd Floor,Building B6,Ganzhizhongguo Chengdu Center,No.777 HuafuAvenue Shuangliu County,Chengdu City, Sichuan Province, China
EUT Description:	5G DIGITAL MOBILE PHONE
Model No.:	VTL-202502
Trade Mark:	VERTU
FCC ID:	2BGHD-VTL202502
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2026-07-15
Date of Test:	2026-07-15 to 2026-08-06
Date of Issue:	2026-08-11
Test Result :	**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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Revision Record			
Version	**Description**	**Date**	**Remark**
01		2026-08-11	Original

Authorized for issue by:				
		Vito Wang **Vito Wang/ Project Engineer**		
		Roman Pan **Roman Pan / Reviewer**		

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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Fold With Mobile Phone			Unfold with Mini Tablet
	Head (1g SAR)	Body worn&Hotspot (1g SAR)	Product specific (10g SAR)	Body worn&Hotspot (1g SAR)
GSM 850	0.18	0.16	/	0.61
GSM 1900	0.22	0.23	/	0.78
WCDMA Band II	0.70	0.27	/	0.70
WCDMA Band IV	0.43	0.29	/	0.90
WCDMA Band V	1.05	0.36	/	0.93
LTE Band 5	1.03	0.33	/	0.73
LTE Band 7	**1.07**	0.57	/	**0.98**
LTE Band 12(17)	0.45	0.24	/	0.76
LTE Band 25(2)	0.41	0.29	/	0.80
LTE Band 26	0.76	0.33	/	0.54
LTE Band 34	0.92	0.38	/	0.96
LTE Band 38	0.69	0.36	/	0.90
LTE Band 40	0.55	0.38	/	0.85
LTE Band 41	0.59	**0.86**	/	0.67
LTE Band 42	0.97	0.13	/	0.73
LTE Band 66(4)	0.98	0.24	/	0.88
NR n5	0.78	0.30	/	0.72
NR n7	0.89	0.35	/	0.77
NR n25(n2)	0.83	0.35	/	0.78
NR n40	0.66	0.26	/	0.47
NR n41(n38)	0.70	0.83	/	0.75
NR n66	0.74	0.35	/	0.69
NR n77 (n78)	0.98	0.38	/	0.67
WiFi 2.4G	0.51	0.15	/	0.61
WiFi 5G	0.51	0.15	**0.43**	0.68
Bluetooth	0.15	0.19	/	0.49
SAR Limited(W/kg)	1.6		4.0	1.6

Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Fold With Mobile Phone			Unfold with Mini Tablet
	Head (1g SAR)	Body worn&Hotspot (1g SAR)	Product specific (10g SAR)	Body (1g SAR)
Sum SAR	1.55	0.86	/	1.51
SPLSR	/	/	/	/
SPLSR Limited	0.04		0.1	0.04

Note: According to TCB Workshop (Overlapping LTE Bands): SAR in LTE band 2 is covered by LTE band 25. SAR in LTE band 4 is covered by LTE band 66. SAR in LTE band 17 is covered by LTE band 12.
SAR in NR Band n2 is covered by NR Band n25. The SAR in NR Band n38 is covered by NR Band n41.
SAR in NR Band n78 is covered by NR Band n77. Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.

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Contents

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1 General Information

1.1 General Description of EUT

Product Name:	5G DIGITAL MOBILE PHONE		
Model No.:	VTL-202502		
Trade Mark:	VERTU		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	358028660009860, 358028660009753, 358028660009886		
Hardware Version:	15.0.2_4.01.04.01		
Software Version:	6.6.92		
Antenna Type:	PIFA antenna		
Device Operating Configurations:			
Test Mode Configuration:	**GSM**:GMSK,8PSK; **WCDMA**:QPSK **LTE**:QPSK,16QAM,64QAM **5G NR**:DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) **WIFI**:DSSS,OFDM,OFDMA; **BT**:GFSK, π/4DQPSK,8DPSK NFC:MASK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSUPA UE Category:	6		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	
	LTE Band 2	1850 ~1910	

	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 7	2500~2570
	LTE Band 12	699~716
	LTE Band 17	704-716
	LTE Band 25	1850~1915
	LTE Band 26	814~849
	LTE Band 34	2010~2025
	LTE Band 38	2570~2620
	LTE Band 40	2300~2400
	LTE Band 41	2496~2690
	LTE Band 42	3400~3600
	LTE Band 66	1710~1780
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n7	2500~2570
	NR Band n25	1850~1915
	NR Band n38	2570~2620
	NR Band n40	2300~2400
	NR Band n41	2496~2690
	NR Band n66	1710~1780
	NR Band n77	3450~3550
		3700~3980
	NR Band n78	3450~3550
		3700~3800
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
	NFC	13.56
RF Cable:	☒Provided by applicant ☐Provided by the laboratory	
Note:		

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1.2 Test Specification

Identity	Document Title
47 CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 941225 D07	UMPC Mini Tablet v01r02
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03

1.3 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:
* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
** The Spatial Average value of the SAR averaged over the whole body.
*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.
Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

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1.4 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.
Tel: +86 755 2601 2053 Fax: +86 755 2671 0594
No tests were sub-contracted.

1.5 Test Engineer

Test Engineer: Claire Shen, Ahway Zhi, Ying Ma, Messi Chen

1.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.
Designation Number: CN1336. Test Firm Registration Number: 787754.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0006.
IC#: 4620C.

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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

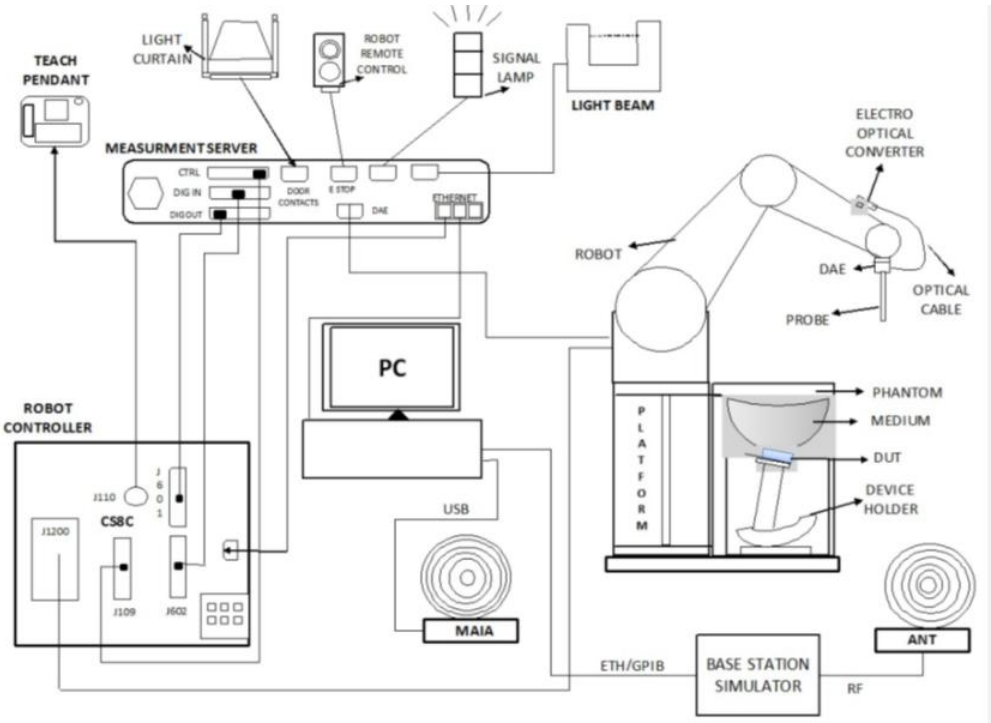
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY system for performing compliance tests consists of the following items:
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering,

control of the robot operation and fast movement interrupts.

- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

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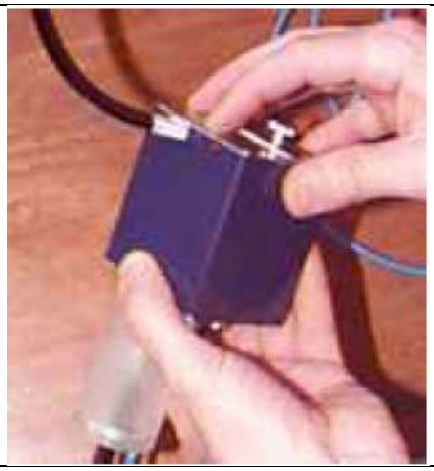
3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	4 MHz - 10 GHz Linearity: ± 0.2 dB (30 MHz - 10 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g - 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 10 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

3.3 Data Acquisition Electronics (DAE)

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx.. 25 liters
Wooden Support	SPEAG standard phantom table

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.
Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm(bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	approx.. 30 liters
Wooden Support	SPEAG standard phantom table

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.
ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.

3.6 Device Holder for Transmitters

F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ=0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification).The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

If the zoom scan measured as specified in the preceding paragraphs complies with both i) and ii), or if the psSAR is below 0,1 W/kg, no additional measurements are needed.

i) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x- and y-directions (Δx, Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance zM1. The minimum distance shall be recorded in the SAR test report.

ii) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x-y location of the measured maximum SAR value shall be at least 30 %. This ratio (in %) shall be recorded in the SAR test report.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max ± 5 %.

3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “DAE”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2
- Conversion factor ConvFi
- Diode compression point Dcpi
Device parameters: - Frequency f
- Crest factor cf
Media parameters: - Conductivity ε
- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents, or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With Vi = compensated signal of channel I (I = x, y, z)
Ui = input signal of channel I (I = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp I = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:
E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$$

With Vi = compensated signal of channel I (I = x, y, z)
Normi = sensor sensitivity of channel I (I = x, y, z)
[mV/(V/m)2] for E-field Probes
ConvF = sensitivity enhancement in solution
aij = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
Ei = electric field strength of channel I in V/m
Hi = magnetic field strength of channel I in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_Y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
Etot = total field strength in V/m
σ= conductivity in [mho/m] or [Siemens/m]
ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = Etot^2{}_2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2
Etot = total electric field strength in V/m
Htot = total magnetic field strength in A/m

4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

5 Description of Test Position

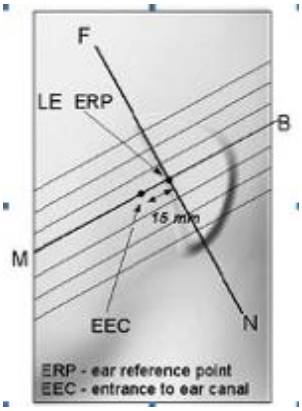
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

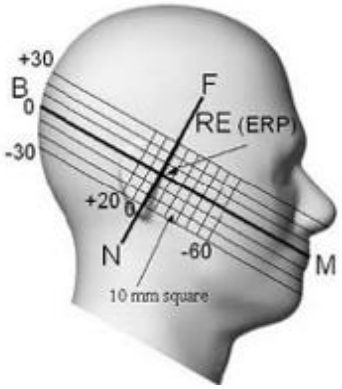
F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

Note: The centre strip including the nose region has a different thickness tolerance.

F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)

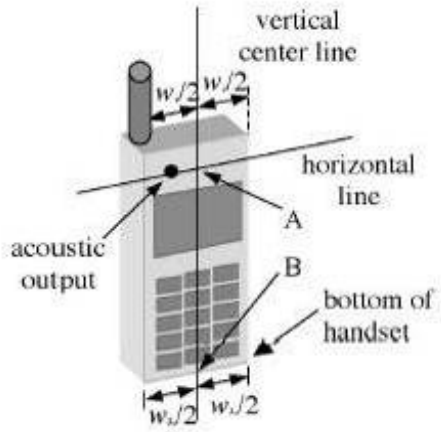


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

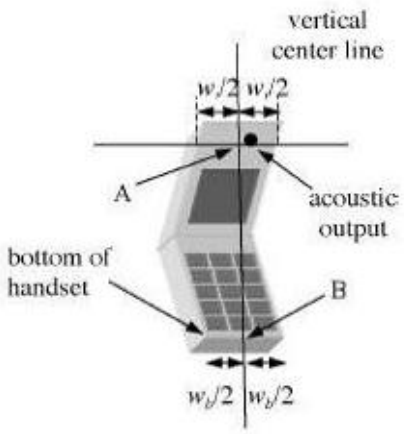


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines- “fixed case”



F-8.Handset vertical and horizontal reference lines- “clam-shell case”

5.1.3 Definition of the “check” position

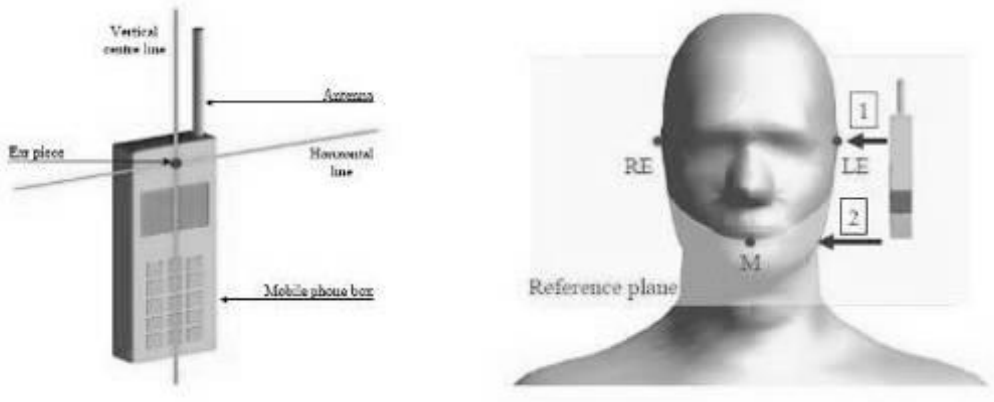
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.

b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

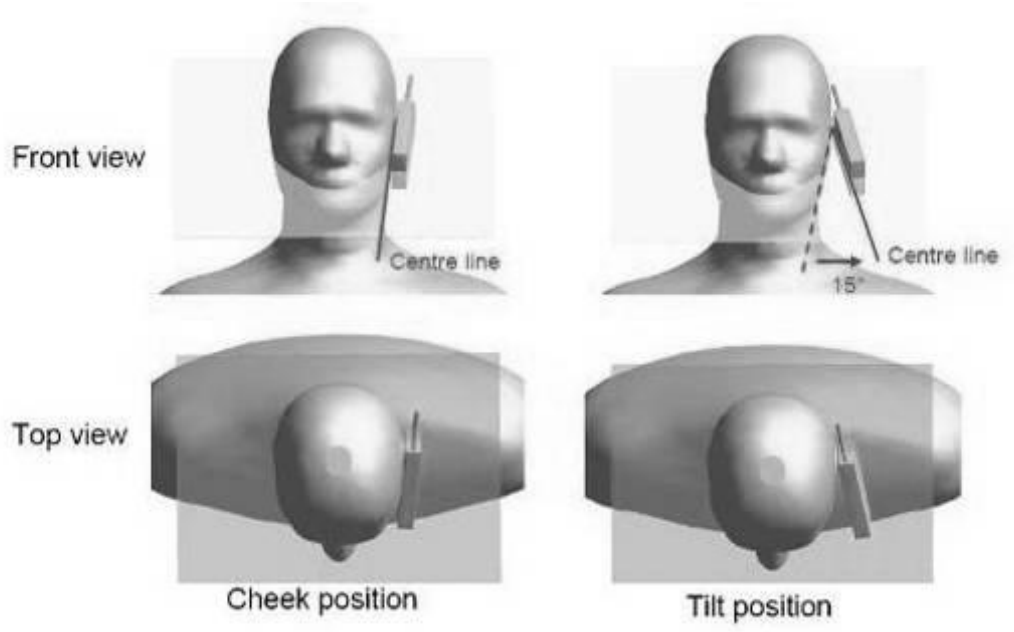
5.1.4 Definition of the “tilted” position

a) Position the device in the “cheek” position described above.

b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9.Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. “Cheek” and “tilt” positions of the mobile phone on the left side

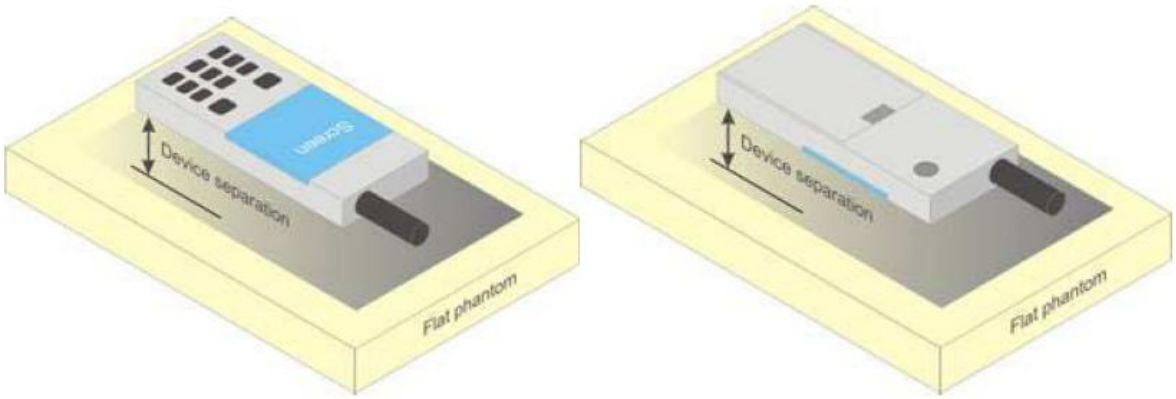
5.2 The Body Test Position

5.2.1 Body-worn exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.
Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11.Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed-use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.2.3 UMPC Mini-Tablet used next to or against the body

Per FCC KDB 941225 D07 the mini-tablets is normally optimized for mobile web access and multimedia use. The test procedures are applicable to devices with a display and overall diagonal dimension ≤ 20 cm (~7.9”). These devices are typically operated like a mini-tablet and are usually designed with certain UMPC features and operating characteristics; therefore, the term “UMPC Mini-Tablet” is used to identify the SAR test requirements for this category of devices. A composite test separation distance of 5 mm is applied to test UMPC mini-tablet transmitters and to maintain RF exposure conservativeness for the interactive operations associated with this type of devices.
UMPC mini-tablet devices must be tested for 1-g SAR on all surfaces and side edges with a transmitting antenna located at ≤ 25 mm from that surface or edge, at 5 mm separation from a flat phantom, for the data modes, wireless technologies and frequency bands supported by the device to determine SAR compliance. When 1-g SAR is tested at 5 mm, 10-g SAR is not required. When voice mode applies (speaker mode only) and the exposure conditions are not adequately covered by the data mode SAR results, additional SAR tests for voice mode may be required; for example, when the maximum average output power levels are different for 1x RTT and EvDo or GSM and GPRS. When the maximum output power levels of transmitters used in hotspot mode are not higher than those tested using UMPC mini tablet procedures the more conservative UMPC mini-tablet SAR results can be used to support hotspot mode. For simultaneous transmission conditions, the procedures described in KDB Publication 447498 D01 are used to determine 1-g SAR test exclusion and SAR test requirements. The simultaneous transmission configurations must be clearly described in the SAR report to support the test exclusion analysis and results.
Within this report, the device in unfolded state is classified as a UMPC mini-tablet and does not support receiver mode.

5.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”.
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
Based on the SAR evaluation results, only WLAN 5 GHz frequency band is required to perform Product specific 10-g SAR testing; all other frequency bands are exempted from this requirement.

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
Head Tissue Simulate Liquid (HBBL600-10000V6) is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 1： Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (εr) are listed in Table 2. For the SAR measurement given in this report.

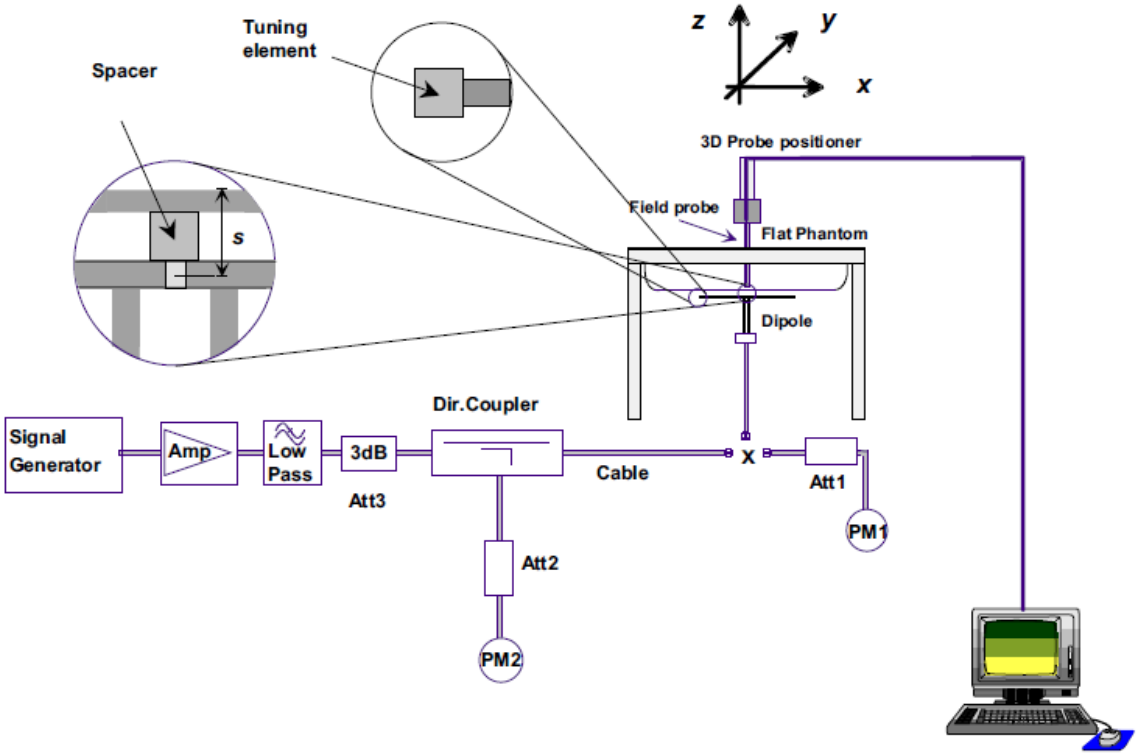
The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Measurement for Tissue Simulate Liquid for System check									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue (±5%)		Deviation (Within ±5%)		Liquid Temp. (℃)	Test Date
		ε_r	σ(S/m)	ε_r	σ(S/m)	ε_r	σ(S/m)		
750 Head	750	43.900	0.870	41.90	0.89	4.77%	-2.25%	22.6	2026/7/18
835 Head	835	43.400	0.929	41.50	0.90	4.58%	3.22%	21.4	2026/7/17
835 Head	835	43.300	0.927	41.50	0.90	4.34%	3.00%	21.7	2026/7/19
835 Head	835	43.300	0.927	41.50	0.90	4.34%	3.00%	21.8	2026/7/15
835 Head	835	43.300	0.929	41.50	0.90	4.34%	3.22%	22.4	2026/7/20
1750 Head	1750	40.300	1.310	40.10	1.37	0.50%	-4.38%	21.2	2026/7/15
1750 Head	1750	40.500	1.350	40.10	1.37	1.00%	-1.46%	22.1	2026/7/17
1750 Head	1750	40.200	1.330	40.10	1.37	0.25%	-2.92%	21.6	2026/7/18
1900 Head	1900	40.300	1.370	40.00	1.40	0.75%	-2.14%	21.5	2026/7/21
1900 Head	1900	40.400	1.420	40.00	1.40	1.00%	1.43%	21.3	2026/7/24
1900 Head	1900	40.600	1.410	40.00	1.40	1.50%	0.71%	21.7	2026/7/26
1900 Head	1900	40.500	1.410	40.00	1.40	1.25%	0.71%	22.5	2026/7/27
1950 Head	1950	38.300	1.420	40.00	1.40	-4.25%	1.43%	22.4	2026/7/21
2300 Head	2300	38.900	1.660	39.50	1.67	-1.52%	-0.60%	23.4	2026/7/23
2300 Head	2300	38.700	1.680	39.50	1.67	-2.03%	0.60%	23.4	2026/7/28
2450 Head	2450	38.500	1.840	39.20	1.80	-1.79%	2.22%	21.8	2026/7/30
2450 Head	2450	38.400	1.820	39.20	1.80	-2.04%	1.11%	22.9	2026/7/31
2600 Head	2600	37.800	1.970	39.00	1.96	-3.08%	0.51%	21.9	2026/7/22
2600 Head	2600	37.700	1.980	39.00	1.96	-3.33%	1.02%	21.5	2026/7/24
2600 Head	2600	37.900	1.980	39.00	1.96	-2.82%	1.02%	22.6	2026/7/27
2600 Head	2600	37.900	1.990	39.00	1.96	-2.82%	1.53%	21.9	2026/7/29
2600 Head	2600	37.800	1.990	39.00	1.96	-3.08%	1.53%	23.1	2026/7/16
3500 Head	3500	38.300	3.020	37.90	2.91	1.06%	3.78%	21.5	2026/7/29
3500 Head	3500	37.900	2.880	37.90	2.91	0.00%	-1.03%	21.5	2026/7/30
3700 Head	3700	37.200	3.070	37.70	3.12	-1.33%	-1.60%	21.6	2026/7/31
3900 Head	3900	36.500	3.280	37.50	3.32	-2.67%	-1.20%	21.2	2026/8/1
5250 Head	5250	35.700	4.660	35.90	4.71	-0.56%	-1.06%	22.0	2026/8/3
5600 Head	5600	34.800	5.040	35.50	5.07	-1.97%	-0.59%	21.8	2026/8/5
5750 Head	5750	34.600	5.230	35.40	5.22	-2.26%	0.19%	22.3	2026/8/6

Table 2： Measurement result of Tissue electric parameters

6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3GHz or higher) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12.The microwave circuit arrangement used for SAR system Check

6.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

a) There is no physical damage on the dipole;

b) System check with specific dipole is within 10% of calibrated value;

c) Return-loss is within 20% of calibrated measurement;

d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

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6.2.2 Summary System Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (℃)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3_Head	2.10	1.42	8.40	5.68	8.42	5.49	-0.24%	3.46%	22.6	2026/7/18
D835V2_Head	2.49	1.67	9.96	6.68	9.67	6.43	3.00%	3.89%	21.4	2026/7/17
D835V2_Head	2.38	1.59	9.52	6.36	9.67	6.43	-1.55%	-1.09%	21.7	2026/7/19
D835V2_Head	2.57	1.72	10.28	6.88	9.67	6.43	6.31%	7.00%	21.8	2026/7/15
D835V2_Head	2.41	1.61	9.64	6.44	9.67	6.43	-0.31%	0.16%	22.4	2026/7/20
D1750V2_Head	8.75	4.77	35.00	19.08	36.20	19.10	-3.31%	-0.10%	21.2	2026/7/15
D1750V2_Head	9.09	4.79	36.36	19.16	36.20	19.10	0.44%	0.31%	22.1	2026/7/17
D1750V2_Head	8.81	4.67	35.24	18.68	36.20	19.10	-2.65%	-2.20%	21.6	2026/7/18
D1900V2_Head	10.4	5.38	41.60	21.52	39.90	21.10	4.26%	1.99%	21.5	2026/7/21
D1900V2_Head	10.3	5.37	41.20	21.48	39.90	21.10	3.26%	1.80%	21.3	2026/7/24
D1900V2_Head	10.5	5.53	42.00	22.12	39.90	21.10	5.26%	4.83%	21.7	2026/7/26
D1900V2_Head	9.79	5.28	39.16	21.12	39.90	21.10	-1.85%	0.09%	22.5	2026/7/27
D1950V3_Head	10.80	5.73	43.20	22.92	40.70	21.20	6.14%	8.11%	22.4	2026/7/21
D2300V2_Head	11.40	5.74	45.60	22.96	48.90	23.20	-6.75%	-1.03%	23.4	2026/7/23
D2300V2_Head	11.40	5.75	45.60	23.00	48.90	23.20	-6.75%	-0.86%	23.4	2026/7/28
D2450V2_Head	12.60	6.11	50.40	24.44	51.90	24.50	-2.89%	-0.24%	21.8	2026/7/30
D2450V2_Head	12.80	6.23	51.20	24.92	51.90	24.50	-1.35%	1.71%	22.9	2026/7/31
D2600V2_Head	13.90	6.47	55.60	25.88	55.30	24.70	0.54%	4.78%	21.9	2026/7/22
D2600V2_Head	13.50	6.33	54.00	25.32	55.30	24.70	-2.35%	2.51%	21.5	2026/7/24
D2600V2_Head	13.70	6.41	54.80	25.64	55.30	24.70	-0.90%	3.81%	22.6	2026/7/27
D2600V2_Head	13.20	6.22	52.80	24.88	55.30	24.70	-4.52%	0.73%	21.9	2026/7/29
D2600V2_Head	13.60	6.43	54.40	25.72	55.30	24.70	-1.63%	4.13%	23.1	2026/7/16
Validation Kit	**Measured SAR 100mW**	**Measured SAR 100mW**	**Measured SAR (normalized to 1W)**	**Measured SAR (normalized to 1W)**	**Target SAR (normalized to 1W)**	**Target SAR (normalized to 1W)**	**Deviation (Within ±10%)**		**Liquid Temp. (℃)**	**Test Date**
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2_3.5GHz_Head	6.89	2.62	68.90	26.20	65.80	25.00	4.71%	4.80%	21.5	2026/7/29
D3500V2_3.5GHz_Head	6.76	2.61	67.60	26.10	65.80	25.00	2.74%	4.40%	21.5	2026/7/30
D3700V2_Head	6.61	2.45	66.10	24.50	67.30	24.70	-1.78%	-0.81%	21.6	2026/7/31
D3900V2_3.9GHz_Head	6.96	2.43	69.60	24.30	67.00	23.50	3.88%	3.40%	21.2	2026/8/1
D5GHzV2_5.25G_Head	7.26	2.04	72.60	20.40	79.00	21.80	-8.10%	-6.42%	22.0	2026/8/3
D5GHzV2_5.6G_Head	8.04	2.24	80.40	22.40	81.60	22.50	-1.47%	-0.44%	21.8	2026/8/5
D5GHzV2_5.75G_Head	7.31	2.14	73.10	21.40	78.30	21.30	-6.64%	0.47%	22.3	2026/8/6

Table 3： SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A

7 Test Configuration

7.1 Operation Configurations

7.1.1 GSM Test Configuration

SAR tests for GSM frequency band, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power level is set to “5” or “0” in SAR of GSM frequency band. The tests in the GSM frequency band are performed in the mode of GPRS/EGPRS function.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8).

7.1.2 WCDMA Test Configuration

1) Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1’s” for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

3) Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations

supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) are set according to values indicated in the following table The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: △ACK, △NACK and △CQI= 8 Ahs = βhs/βc=30/15 βhs=30/15*βc

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, △ACK and △NACK= 8 (Ahs=30/15) with βhs=30/15*βc,and △CQI= 7 (Ahs=24/15) with βhs=24/15*βc.

Note3: CM=1 forβc/βd =12/15, βhs/βc=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 4： settings of required H-Set 1 QPSK acc. to 3GPP 34.121

HS-DSCH Category	MaximumHS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumHS-DSCH TransportBlockBits/HS-DSCH TTI	TotalSoft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 5： HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (code)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference

Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$

Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$

Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Table 6： Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 7： HSUPA UE category

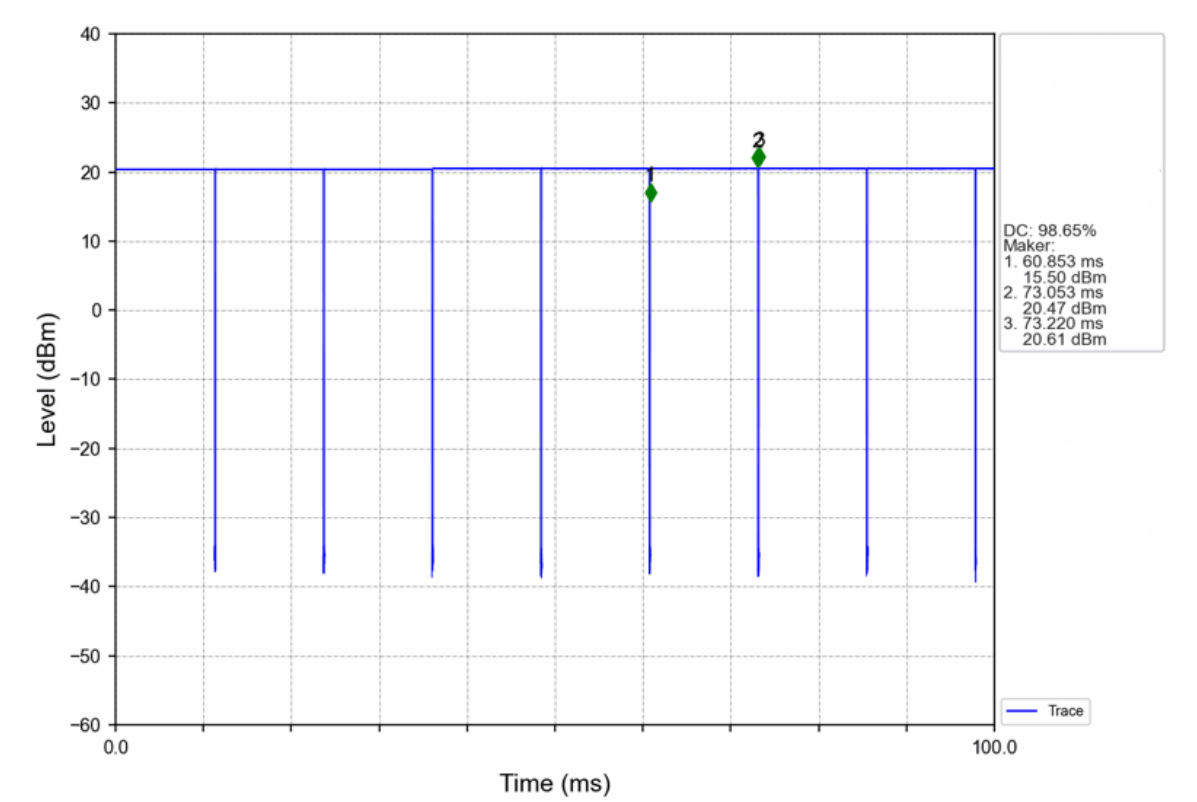
7.1.3 WIFI Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.1.3.1 Duty cycle

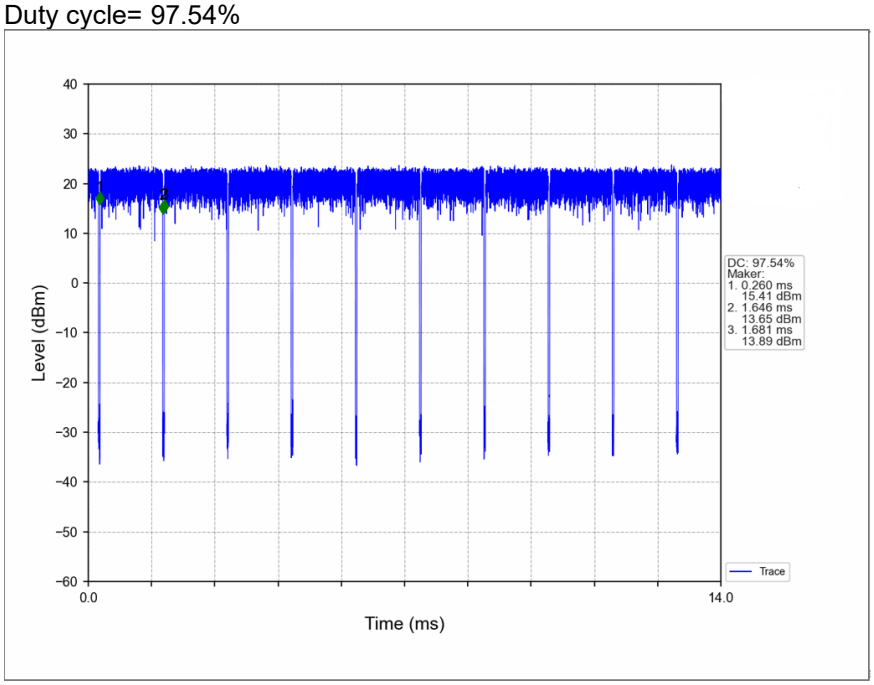
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle= 98.65%



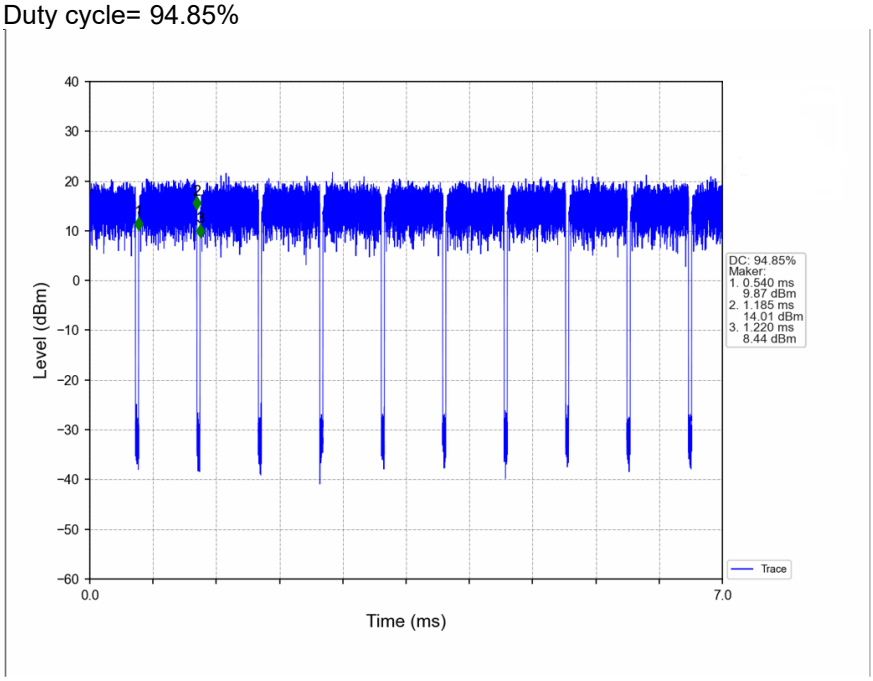
2) Wi-Fi 5GHz 802.11a:

Duty cycle= 97.54%



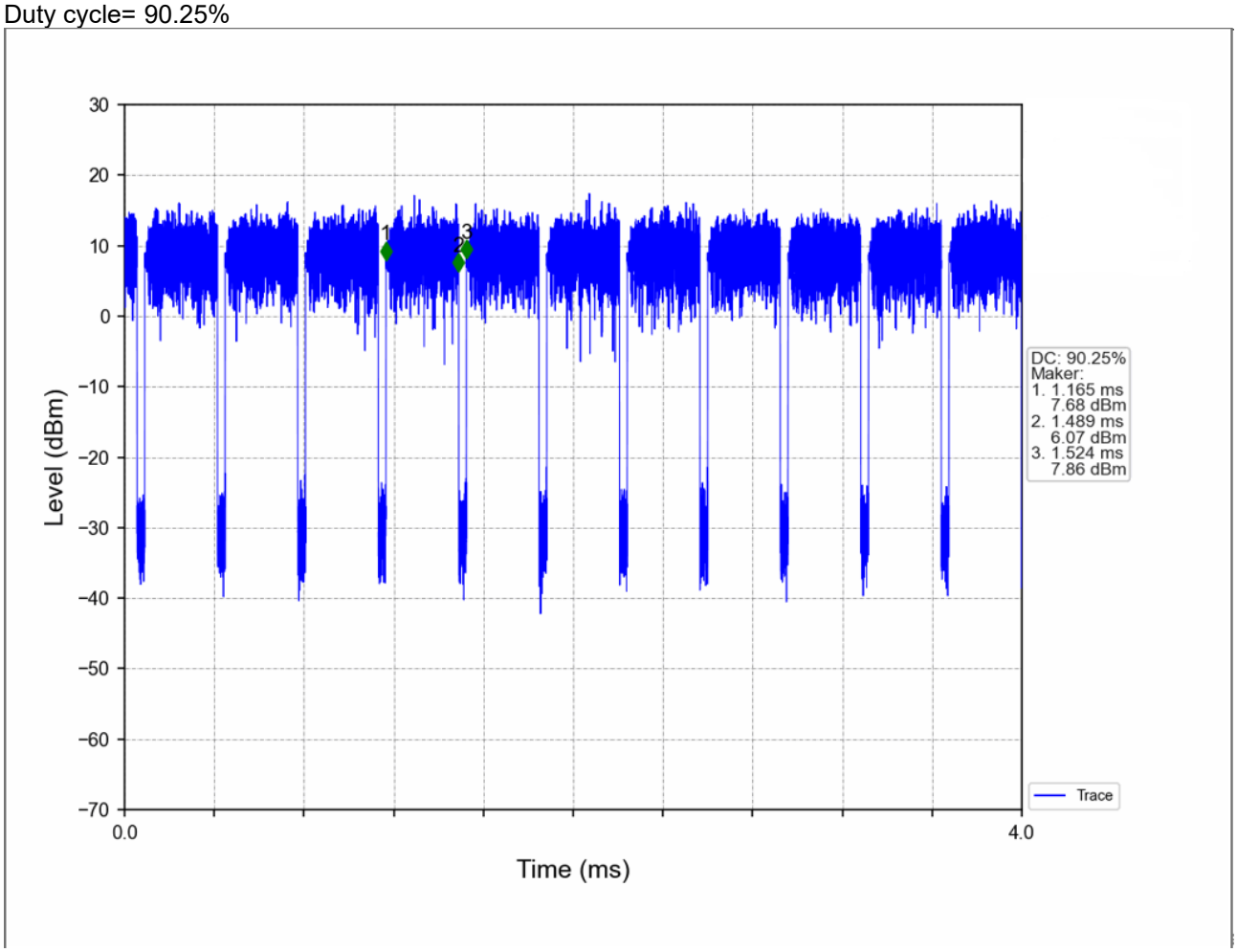
3) Wi-Fi 5GHz 802.11n40:

Duty cycle= 94.85%



4) Wi-Fi 5GHz 802.11ac80:

Duty cycle= 90.25%



7.1.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

1）. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
2）. When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
3）. For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.1.3.3 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

1）. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

2）. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

3）. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.

a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.

b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.

4）. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:

a) replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)

b) replace “initial test configuration” with “all tested higher output power configurations”

7.1.3.4 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **802.11b DSSS SAR Test Requirements**

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1）. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2）. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

1）. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.

2）. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

7.1.3.5 5 GHz WiFi SAR Procedures

- **U-NII-1 and U-NII-2A Bands**
  For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following：

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

- **U-NII-2C and U-NII-3 Bands**
  The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

  When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
    a) The channel closest to mid-band frequency is selected for SAR measurement.
    b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

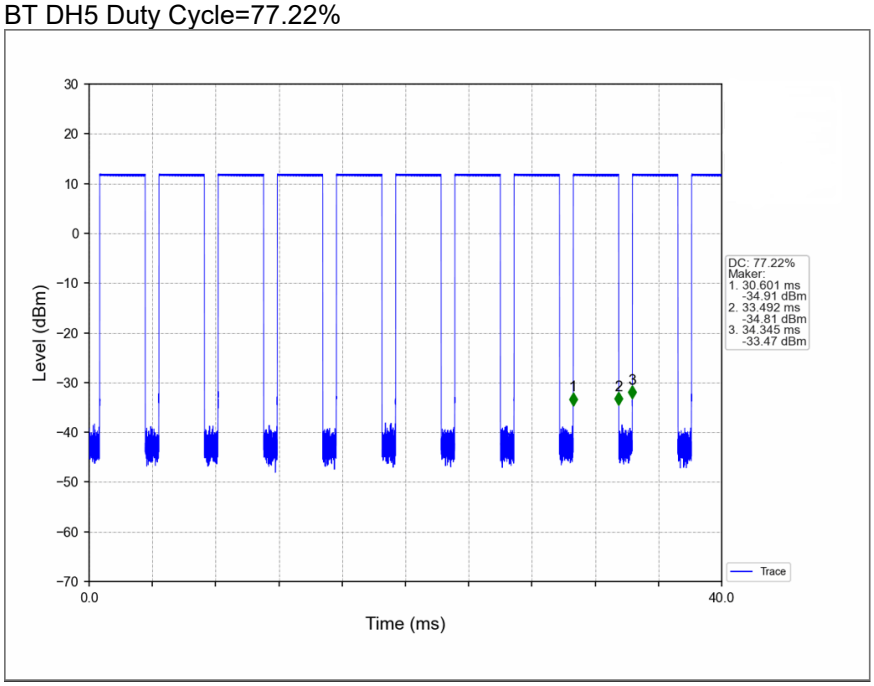
- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

7.1.4 BT Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, frequency hops at 1600 hops/second per the Bluetooth standard, the EUT is operated at the RF continuous emission mode.

BT DH5 Duty Cycle=77.22%



7.1.5 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

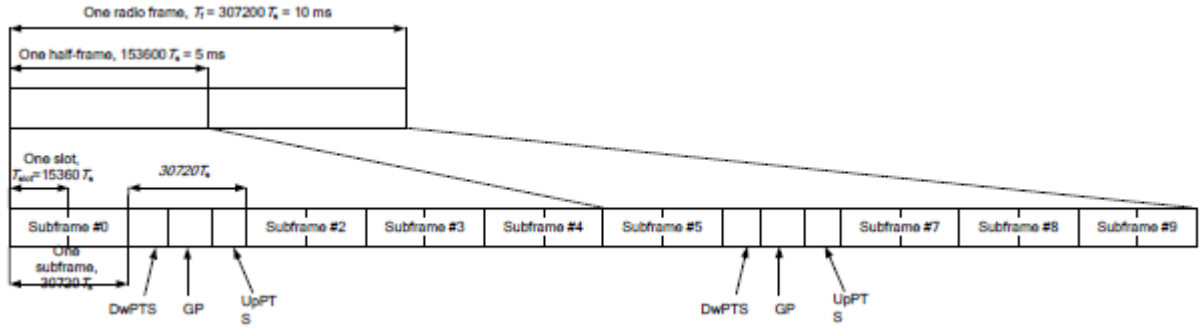


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts		

6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4	3	5	10	15	20	

	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥1						5

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

E) LTE CA additional specification

The device supports intra-band contiguous and inter-band discontinuous uplink and downlink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

a) Intra-band carrier aggregation requirements for uplink.

b) Intra-band and inter-band carrier aggregation requirements for downlink.

The downlink LTE CA test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA as below:

1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel

- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2)This device supports uplink carrier aggregation for LTE CA_7C/41C with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. For the non-contiguously allocated resource blocks which the MPR level is determined by various RB separation and RB sizes requirement, and the allowed MPR levels, settings and the conducted powers are permanently implemented in this device per the 3GPP 36.101 section 6.2.3A.1.3 requirements.

3)SAR for UL CA is required in each exposure condition and frequency band combination

4)For this device , as the maximum output for Intra-band uplink LTE CA is ≤ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.

- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

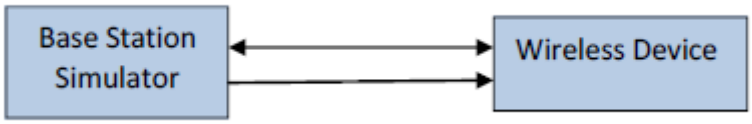
5)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

6)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

7)General PCC and SCC configuration selection procedure
- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing

between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



DL CA Power Measurement Setup

7.1.6 NR Band Test Configuration

1. The general information supported by the NR band is as following table:

Band	n2	n5	n7	n25	n38	n40	n41	n66	n77	n78
Max Duty Cycle	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Band	Max SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n25	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n40	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
n41	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

2. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.

b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.

c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure

e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.

g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.

3. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1 and Table 6.2.2 -2.

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5[1]	≤ 1.2[1]	≤ 0.2[1]
		≤ 0.5[2]	≤ 0.5[2]	0[2]
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		
NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.				
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.				

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

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4. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

5. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:
For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)
a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.
b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be ≤ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

1) The test device is a smart phone, and the diagonal distance of this device in fold configuration is ≥160mm but ≤ 200mm, so it is a Phablet per KDB 648474 D04.

2) The distance between the antennas and the sides of the EUT show as below table, when the antenna-to-edge distance is greater than 25mm, such position does not need to be SAR tested.

Fold with Mobile Phone Antenna Separation Distance(cm)						
ANT	**Back Side**	**Front Side**	**Left Side**	**Right Side**	**Top Side**	**Bottom Side**
Ant 1	0.5	0.5	5.3	0.5	9.2	0.5
Ant 2	0.5	0.5	0.5	4.2	15	0.5
Ant 3	0.5	0.5	6.2	0.5	3.8	10
Ant 4	0.5	0.5	6.5	0.5	7.5	6.5
Ant 5	0.5	0.5	6.5	0.5	0.8	13.2
Ant 8	0.5	0.5	4	2.5	0.5	15.4
Ant 9	0.5	0.5	5.5	0.5	0.5	15
Ant 10	0.5	0.5	0.5	6.5	0.5	15.4

3) Within this report, the device in unfolded configuration is classified as a UMPC mini-tablet and does not support receiver mode.

Unfold with Mini Tablet Antenna Separation Distance(cm)						
ANT	**Back Side**	**Front Side**	**Left Side**	**Right Side**	**Top Side**	**Bottom Side**
Ant 1	0.5	0.5	10.5	0.5	9.2	0.5
Ant 2	0.5	0.5	7	7	15	0.5
Ant 3	0.5	0.5	13.2	0.5	3.8	10
Ant 4	0.5	0.5	10.5	2.5	7.5	6.5
Ant 5	0.5	0.5	13.5	0.5	0.8	13.2
Ant 8	0.5	0.5	10.5	2.5	0.5	15.4
Ant 9	0.5	0.5	12	0.5	0.5	15
Ant 10	0.5	0.5	7.4	6.5	0.5	15.4

8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

1) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.

8.2.2 RF Conducted Power Data

The detailed power data can be referred to Appendix E Conducted RF Output Power.

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8.3 Measurement of SAR Data

Note:

1) The maximum Scaled SAR value graph results refer to Appendix B.

2) Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

3) The device does not support DTM function.

4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.

5) The NFC power is below the 1 mW exemption threshold, and its estimated value is negligible.

NFC	
Mode	Out Power (dBm)
MASK	-53.12

6) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.

8.3.1 SAR Result of Head with Fold

Test band	Antenna Number	Test position	Distance (mm)	Modulation	Bandwidth(MHz)	RB size	RB offset	Test channel	Frequency	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1g	SAR (W/kg) 10g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1g (W/kg)	Liquid Temp. (℃)
GSM 850	1	Left Cheek	-	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.044	0.031	0.02	29.26	29.50	1.057	0.047	22.3
GSM 850	1	Left Tilted	-	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.024	0.012	-0.02	29.26	29.50	1.057	0.025	22.3
GSM 850	1	Right Cheek	-	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.067	0.047	-0.08	29.26	29.50	1.057	0.071	22.3
GSM 850	1	Right Tilted	-	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.043	0.032	-0.17	29.26	29.50	1.057	0.045	22.3
GSM 850	3	Left Cheek	-	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.169	0.088	0.11	26.15	26.50	1.084	0.183	22.3
GSM 850	3	Left Tilted	-	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.032	0.016	0.08	26.15	26.50	1.084	0.035	22.3
GSM 850	3	Right Cheek	-	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.063	0.038	0.03	26.15	26.50	1.084	0.068	22.3
GSM 850	3	Right Tilted	-	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.022	0.011	0.16	26.15	26.50	1.084	0.024	22.3
GSM 850	3	Left Cheek	-	GPRS 4TS	-	-	-	128	824.2	1:2.075	1	0.138	0.075	0.17	26.10	26.50	1.096	0.151	22.3
GSM 850	3	Left Cheek	-	GPRS 4TS	-	-	-	251	848.8	1:2.075	1	0.145	0.081	0.11	26.14	26.50	1.086	0.157	22.3
GSM 1900	9	Left Cheek	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.136	0.078	0.00	28.86	29.00	1.033	0.140	22.3
GSM 1900	9	Left Tilted	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.216	0.110	-0.02	28.86	29.00	1.033	0.223	22.3
GSM 1900	9	Right Cheek	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.135	0.077	-0.14	28.86	29.00	1.033	0.139	22.3
GSM 1900	9	Right Tilted	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.209	0.105	-0.08	28.86	29.00	1.033	0.216	22.3
GSM 1900	9	Left Tilted	-	GPRS 1TS	-	-	-	512	1850.2	1:8.3	1	0.188	0.095	0.14	28.58	29.00	1.102	0.207	22.3
GSM 1900	9	Left Tilted	-	GPRS 1TS	-	-	-	810	1909.8	1:8.3	1	0.192	0.100	0.11	28.71	29.00	1.069	0.205	22.3
GSM 1900	2	Left Cheek	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.026	0.013	-0.09	27.82	28.00	1.042	0.027	22.3
GSM 1900	2	Left Tilted	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.020	0.010	0.19	27.82	28.00	1.042	0.021	22.3
GSM 1900	2	Right Cheek	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.041	0.025	0.16	27.82	28.00	1.042	0.043	22.3
GSM 1900	2	Right Tilted	-	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.026	0.013	0.05	27.82	28.00	1.042	0.027	22.3
WCDMA Band II	9	Left Cheek	-	RMC	-	-	-	9400	1880	1:1	1	0.353	0.182	-0.19	20.98	21.50	1.127	0.398	22.3
WCDMA Band II	9	Left Tilted	-	RMC	-	-	-	9400	1880	1:1	1	0.524	0.267	-0.16	20.98	21.50	1.127	0.591	22.3
WCDMA Band II	9	Right Cheek	-	RMC	-	-	-	9400	1880	1:1	1	0.334	0.180	-0.01	20.98	21.50	1.127	0.376	22.3
WCDMA Band II	9	Right Tilted	-	RMC	-	-	-	9400	1880	1:1	1	0.523	0.271	-0.14	20.98	21.50	1.127	0.589	22.3
WCDMA Band II	9	Left Tilted	-	RMC	-	-	-	9262	1852.4	1:1	1	0.421	0.221	0.16	20.95	21.50	1.135	0.478	22.3
WCDMA	9	Left	-	RMC	-	-	-	9538	1907.6	1:1	1	0.609	0.313	0.06	20.87	21.50	1.156	0.704	21.3

Band II		Tilted																	
WCDMA Band II	2	Left Cheek	-	RMC	-	-	-	9400	1880	1:1	1	0.042	0.026	-0.14	22.29	22.50	1.050	0.044	22.3
WCDMA Band II	2	Left Tilted	-	RMC	-	-	-	9400	1880	1:1	1	0.024	0.012	-0.13	22.29	22.50	1.050	0.025	22.3
WCDMA Band II	2	Right Cheek	-	RMC	-	-	-	9400	1880	1:1	1	0.063	0.037	-0.05	22.29	22.50	1.050	0.066	22.3
WCDMA Band II	2	Right Tilted	-	RMC	-	-	-	9400	1880	1:1	1	0.042	0.024	-0.04	22.29	22.50	1.050	0.044	22.3
WCDMA Band IV	9	Left Cheek	-	RMC	-	-	-	1412	1732.4	1:1	1	0.280	0.143	0.05	21.81	22.00	1.045	0.293	22.3
WCDMA Band IV	9	Left Tilted	-	RMC	-	-	-	1412	1732.4	1:1	1	0.412	0.205	-0.03	21.81	22.00	1.045	0.431	22.3
WCDMA Band IV	9	Right Cheek	-	RMC	-	-	-	1412	1732.4	1:1	1	0.239	0.124	-0.12	21.81	22.00	1.045	0.250	22.3
WCDMA Band IV	9	Right Tilted	-	RMC	-	-	-	1412	1732.4	1:1	1	0.355	0.175	0.01	21.81	22.00	1.045	0.371	22.3
WCDMA Band IV	9	Left Tilted	-	RMC	-	-	-	1312	1712.4	1:1	1	0.392	0.206	0.10	21.72	22.00	1.067	0.418	22.3
WCDMA Band IV	9	Left Tilted	-	RMC	-	-	-	1513	1752.6	1:1	1	0.410	0.212	0.08	21.75	22.00	1.059	0.434	21.3
WCDMA Band IV	2	Left Cheek	-	RMC	-	-	-	1412	1732.4	1:1	1	0.026	0.013	-0.11	21.78	22.00	1.052	0.027	22.6
WCDMA Band IV	2	Left Tilted	-	RMC	-	-	-	1412	1732.4	1:1	1	0.024	0.011	-0.19	21.78	22.00	1.052	0.025	22.6
WCDMA Band IV	2	Right Cheek	-	RMC	-	-	-	1412	1732.4	1:1	1	0.049	0.030	-0.18	21.78	22.00	1.052	0.052	22.6
WCDMA Band IV	2	Right Tilted	-	RMC	-	-	-	1412	1732.4	1:1	1	0.042	0.024	-0.06	21.78	22.00	1.052	0.044	22.6
WCDMA Band V	1	Left Cheek	-	RMC	-	-	-	4182	836.4	1:1	1	0.058	0.041	0.11	23.61	24.00	1.094	0.063	22.6
WCDMA Band V	1	Left Tilted	-	RMC	-	-	-	4182	836.4	1:1	1	0.045	0.033	0.12	23.61	24.00	1.094	0.049	22.6
WCDMA Band V	1	Right Cheek	-	RMC	-	-	-	4182	836.4	1:1	1	0.083	0.059	-0.19	23.61	24.00	1.094	0.091	22.6
WCDMA Band V	1	Right Tilted	-	RMC	-	-	-	4182	836.4	1:1	1	0.055	0.041	0.16	23.61	24.00	1.094	0.060	22.6
WCDMA Band V	3	Left Cheek	-	RMC	-	-	-	4182	836.4	1:1	1	0.988	0.542	0.19	24.25	24.50	1.059	1.046	22.6
WCDMA Band V	3	Left Tilted	-	RMC	-	-	-	4182	836.4	1:1	1	0.306	0.171	0.17	24.25	24.50	1.059	0.324	22.6
WCDMA Band V	3	Right Cheek	-	RMC	-	-	-	4182	836.4	1:1	1	0.366	0.229	-0.04	24.25	24.50	1.059	0.388	22.6
WCDMA Band V	3	Right Tilted	-	RMC	-	-	-	4182	836.4	1:1	1	0.170	0.109	-0.02	24.25	24.50	1.059	0.180	22.6
WCDMA Band V	3	Left Cheek	-	RMC	-	-	-	4132	826.4	1:1	1	0.642	0.351	0.00	24.13	24.50	1.089	0.699	22.6
WCDMA Band V	3	Left Cheek	-	RMC	-	-	-	4233	846.6	1:1	1	0.306	0.171	-0.03	24.19	24.50	1.074	0.329	22.1
WCDMA Band V	3	Left Cheek with Repeat	-	RMC	-	-	-	4182	836.4	1:1	1	0.975	0.542	0.08	24.25	24.50	1.059	1.033	22.6
LTE Band 5	1	Left Cheek	-	QPSK	10	1	49	20525	836.5	1:1	1	0.059	0.041	0.01	24.39	24.50	1.026	0.061	22.1
LTE Band 5	1	Left Tilted	-	QPSK	10	1	49	20525	836.5	1:1	1	0.027	0.022	0.17	24.39	24.50	1.026	0.028	22.1
LTE Band	1	Right	-	QPSK	10	1	49	20525	836.5	1:1	1	0.088	0.062	-0.02	24.39	24.50	1.026	0.090	22.1

5		Cheek																	
LTE Band 5	1	Right Tilted	-	QPSK	10	1	49	20525	836.5	1:1	1	0.045	0.028	0.02	24.39	24.50	1.026	0.046	22.1
LTE Band 5	1	Left Cheek	-	QPSK	10	25	25	20525	836.5	1:1	1	0.048	0.034	0.19	23.34	23.50	1.038	0.050	22.1
LTE Band 5	1	Left Tilted	-	QPSK	10	25	25	20525	836.5	1:1	1	0.022	0.015	0.07	23.34	23.50	1.038	0.023	22.1
LTE Band 5	1	Right Cheek	-	QPSK	10	25	25	20525	836.5	1:1	1	0.071	0.050	0.00	23.34	23.50	1.038	0.074	22.1
LTE Band 5	1	Right Tilted	-	QPSK	10	25	25	20525	836.5	1:1	1	0.039	0.024	-0.18	23.34	23.50	1.038	0.040	22.1
LTE Band 5	3	Left Cheek	-	QPSK	10	1	25	20525	836.5	1:1	1	0.952	0.581	0.05	23.66	24.00	1.081	1.029	22.1
LTE Band 5	3	Left Tilted	-	QPSK	10	1	25	20525	836.5	1:1	1	0.286	0.159	0.12	23.66	24.00	1.081	0.309	22.1
LTE Band 5	3	Right Cheek	-	QPSK	10	1	25	20525	836.5	1:1	1	0.367	0.228	0.10	23.66	24.00	1.081	0.397	22.1
LTE Band 5	3	Right Tilted	-	QPSK	10	1	25	20525	836.5	1:1	1	0.168	0.107	0.06	23.66	24.00	1.081	0.182	22.1
LTE Band 5	3	Left Cheek with Repeat	-	QPSK	10	1	25	20525	836.5	1:1	1	0.942	0.577	0.03	23.66	24.00	1.081	1.018	22.1
LTE Band 5	3	Left Cheek	-	QPSK	10	25	13	20525	836.5	1:1	1	0.570	0.316	0.06	22.73	23.00	1.064	0.606	22.1
LTE Band 5	3	Left Tilted	-	QPSK	10	25	13	20525	836.5	1:1	1	0.212	0.118	0.09	22.73	23.00	1.064	0.226	22.1
LTE Band 5	3	Right Cheek	-	QPSK	10	25	13	20525	836.5	1:1	1	0.281	0.176	0.06	22.73	23.00	1.064	0.299	22.1
LTE Band 5	3	Right Tilted	-	QPSK	10	25	13	20525	836.5	1:1	1	0.126	0.080	-0.17	22.73	23.00	1.064	0.134	22.1
LTE Band 5	3	Left Cheek	-	QPSK	10	50	0	20525	836.5	1:1	1	0.570	0.316	0.06	22.35	23.00	1.161	0.662	22.1
LTE Band 7	9	Left Cheek	-	QPSK	20	1	50	20850	2510	1:1	1	0.524	0.290	-0.08	23.59	24.00	1.099	0.576	22.6
LTE Band 7	9	Left Tilted	-	QPSK	20	1	50	20850	2510	1:1	1	0.762	0.412	-0.05	23.59	24.00	1.099	0.837	22.6
LTE Band 7	9	Right Cheek	-	QPSK	20	1	50	20850	2510	1:1	1	0.463	0.269	0.10	23.59	24.00	1.099	0.509	22.6
LTE Band 7	9	Right Tilted	-	QPSK	20	1	50	20850	2510	1:1	1	0.718	0.401	-0.09	23.59	24.00	1.099	0.789	22.6
LTE Band 7	9	Left Tilted	-	QPSK	20	1	50	21100	2535	1:1	1	0.963	0.506	0.10	23.55	24.00	1.109	1.068	22.6
LTE Band 7	9	Left Tilted	-	QPSK	20	1	50	21350	2560	1:1	1	0.789	0.429	0.10	23.57	24.00	1.104	0.871	22.6
LTE Band 7	9	Left Tilted with Repeat	-	QPSK	20	1	50	21100	2535	1:1	1	0.955	0.495	0.11	23.55	24.00	1.109	1.059	22.6
LTE Band 7	9	Left Cheek	-	QPSK	20	50	0	20850	2510	1:1	1	0.427	0.231	-0.01	22.60	23.00	1.096	0.468	22.6
LTE Band 7	9	Left Tilted	-	QPSK	20	50	0	20850	2510	1:1	1	0.611	0.330	-0.06	22.60	23.00	1.096	0.670	22.6
LTE Band 7	9	Right Cheek	-	QPSK	20	50	0	20850	2510	1:1	1	0.380	0.219	0.08	22.60	23.00	1.096	0.416	22.6
LTE Band 7	9	Right Tilted	-	QPSK	20	50	0	20850	2510	1:1	1	0.577	0.321	0.13	22.60	23.00	1.096	0.632	22.6
LTE Band	9	Left	-	QPSK	20	100	0	20850	2510	1:1	1	0.605	0.322	-0.05	22.42	23.00	1.143	0.692	22.6

7		Tilted																	
LTE Band 7	2	Left Cheek	-	QPSK	20	1	0	20850	2510	1:1	1	0.032	0.015	0.09	21.10	21.50	1.096	0.035	22.6
LTE Band 7	2	Left Tilted	-	QPSK	20	1	0	20850	2510	1:1	1	0.026	0.013	0.02	21.10	21.50	1.096	0.028	22.6
LTE Band 7	2	Right Cheek	-	QPSK	20	1	0	20850	2510	1:1	1	0.020	0.011	0.02	21.10	21.50	1.096	0.022	22.6
LTE Band 7	2	Right Tilted	-	QPSK	20	1	0	20850	2510	1:1	1	0.056	0.034	0.01	21.10	21.50	1.096	0.061	22.6
LTE Band 7	2	Left Cheek	-	QPSK	20	50	25	20850	2510	1:1	1	0.021	0.013	0.05	19.96	20.50	1.132	0.024	22.6
LTE Band 7	2	Left Tilted	-	QPSK	20	50	25	20850	2510	1:1	1	0.020	0.010	-0.15	19.96	20.50	1.132	0.023	22.6
LTE Band 7	2	Right Cheek	-	QPSK	20	50	25	20850	2510	1:1	1	0.016	0.007	0.08	19.96	20.50	1.132	0.018	22.6
LTE Band 7	2	Right Tilted	-	QPSK	20	50	25	20850	2510	1:1	1	0.043	0.026	-0.18	19.96	20.50	1.132	0.049	22.6
LTE Band 12(17)	1	Left Cheek	-	QPSK	10	1	0	23095	707.5	1:1	1	0.076	0.054	-0.04	23.81	24.00	1.045	0.079	22.6
LTE Band 12(17)	1	Left Tilted	-	QPSK	10	1	0	23095	707.5	1:1	1	0.040	0.029	-0.17	23.81	24.00	1.045	0.042	22.6
LTE Band 12(17)	1	Right Cheek	-	QPSK	10	1	0	23095	707.5	1:1	1	0.113	0.081	0.13	23.81	24.00	1.045	0.118	22.6
LTE Band 12(17)	1	Right Tilted	-	QPSK	10	1	0	23095	707.5	1:1	1	0.058	0.038	-0.07	23.81	24.00	1.045	0.061	22.6
LTE Band 12(17)	1	Left Cheek	-	QPSK	10	25	0	23095	707.5	1:1	1	0.059	0.042	0.15	22.89	23.00	1.026	0.061	22.6
LTE Band 12(17)	1	Left Tilted	-	QPSK	10	25	0	23095	707.5	1:1	1	0.026	0.019	0.15	22.89	23.00	1.026	0.027	22.6
LTE Band 12(17)	1	Right Cheek	-	QPSK	10	25	0	23095	707.5	1:1	1	0.087	0.062	0.12	22.89	23.00	1.026	0.089	22.6
LTE Band 12(17)	1	Right Tilted	-	QPSK	10	25	0	23095	707.5	1:1	1	0.046	0.027	-0.10	22.89	23.00	1.026	0.047	22.6
LTE Band 12(17)	3	Left Cheek	-	QPSK	10	1	49	23095	707.5	1:1	1	0.440	0.238	0.00	24.91	25.00	1.021	0.449	22.6
LTE Band 12(17)	3	Left Tilted	-	QPSK	10	1	49	23095	707.5	1:1	1	0.142	0.087	0.04	24.91	25.00	1.021	0.145	22.6
LTE Band 12(17)	3	Right Cheek	-	QPSK	10	1	49	23095	707.5	1:1	1	0.182	0.124	-0.17	24.91	25.00	1.021	0.186	22.6
LTE Band 12(17)	3	Right Tilted	-	QPSK	10	1	49	23095	707.5	1:1	1	0.083	0.058	0.01	24.91	25.00	1.021	0.085	22.6
LTE Band 12(17)	3	Left Cheek	-	QPSK	10	25	25	23095	707.5	1:1	1	0.319	0.183	0.04	23.95	24.00	1.012	0.323	22.6
LTE Band 12(17)	3	Left Tilted	-	QPSK	10	25	25	23095	707.5	1:1	1	0.119	0.068	-0.03	23.95	24.00	1.012	0.120	22.6
LTE Band 12(17)	3	Right Cheek	-	QPSK	10	25	25	23095	707.5	1:1	1	0.157	0.102	0.16	23.95	24.00	1.012	0.159	22.6
LTE Band 12(17)	3	Right Tilted	-	QPSK	10	25	25	23095	707.5	1:1	1	0.071	0.046	-0.19	23.95	24.00	1.012	0.072	22.6
LTE Band 25(2)	9	Left Cheek	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.203	0.109	-0.16	22.52	23.00	1.117	0.227	22.6
LTE Band 25(2)	9	Left Tilted	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.295	0.155	-0.01	22.52	23.00	1.117	0.330	22.6
LTE Band 25(2)	9	Right Cheek	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.179	0.101	0.05	22.52	23.00	1.117	0.200	22.6
LTE Band 25(2)	9	Right Tilted	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.277	0.151	0.18	22.52	23.00	1.117	0.309	22.6
LTE Band	9	Left	-	QPSK	20	1	50	26140	1860	1:1	1	0.258	0.138	-0.17	22.51	23.00	1.119	0.289	22.6

25(2)		Tilted																	
LTE Band 25(2)	9	Left Tilted	-	QPSK	20	1	50	26590	1905	1:1	1	0.357	0.187	-0.09	22.41	23.00	1.146	0.409	21.3
LTE Band 25(2)	9	Left Cheek	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.163	0.086	0.10	22.55	23.00	1.109	0.181	22.6
LTE Band 25(2)	9	Left Tilted	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.233	0.123	0.10	22.55	23.00	1.109	0.258	22.6
LTE Band 25(2)	9	Right Cheek	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.145	0.082	0.08	22.55	23.00	1.109	0.161	22.6
LTE Band 25(2)	9	Right Tilted	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.219	0.120	0.02	22.55	23.00	1.109	0.243	22.6
LTE Band 25(2)	2	Left Cheek	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.026	0.014	-0.10	21.79	22.00	1.050	0.027	22.6
LTE Band 25(2)	2	Left Tilted	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.021	0.013	0.05	21.79	22.00	1.050	0.022	22.6
LTE Band 25(2)	2	Right Cheek	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.054	0.041	-0.15	21.79	22.00	1.050	0.057	22.6
LTE Band 25(2)	2	Right Tilted	-	QPSK	20	1	50	26365	1882.5	1:1	1	0.028	0.017	0.15	21.79	22.00	1.050	0.029	22.6
LTE Band 25(2)	2	Left Cheek	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.022	0.013	0.03	20.85	21.00	1.035	0.023	22.6
LTE Band 25(2)	2	Left Tilted	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.016	0.008	-0.04	20.85	21.00	1.035	0.017	22.6
LTE Band 25(2)	2	Right Cheek	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.045	0.028	-0.03	20.85	21.00	1.035	0.047	22.6
LTE Band 25(2)	2	Right Tilted	-	QPSK	20	50	25	26365	1882.5	1:1	1	0.021	0.012	0.13	20.85	21.00	1.035	0.022	22.6
LTE Band 26	1	Left Cheek	-	QPSK	15	1	0	26865	831.5	1:1	1	0.060	0.043	0.05	23.53	24.00	1.114	0.067	22.6
LTE Band 26	1	Left Tilted	-	QPSK	15	1	0	26865	831.5	1:1	1	0.027	0.019	0.08	23.53	24.00	1.114	0.030	22.6
LTE Band 26	1	Right Cheek	-	QPSK	15	1	0	26865	831.5	1:1	1	0.091	0.066	0.04	23.53	24.00	1.114	0.101	22.6
LTE Band 26	1	Right Tilted	-	QPSK	15	1	0	26865	831.5	1:1	1	0.042	0.036	-0.15	23.53	24.00	1.114	0.047	22.6
LTE Band 26	1	Left Cheek	-	QPSK	15	36	0	26865	831.5	1:1	1	0.049	0.035	0.00	22.59	23.00	1.099	0.054	22.6
LTE Band 26	1	Left Tilted	-	QPSK	15	36	0	26865	831.5	1:1	1	0.026	0.018	-0.02	22.59	23.00	1.099	0.029	22.6
LTE Band 26	1	Right Cheek	-	QPSK	15	36	0	26865	831.5	1:1	1	0.074	0.051	-0.09	22.59	23.00	1.099	0.081	22.6
LTE Band 26	1	Right Tilted	-	QPSK	15	36	0	26865	831.5	1:1	1	0.036	0.025	0.15	22.59	23.00	1.099	0.040	22.6
LTE Band 26	3	Left Cheek	-	QPSK	15	1	74	26865	831.5	1:1	1	0.726	0.393	0.03	23.83	24.00	1.040	0.755	22.6
LTE Band 26	3	Left Tilted	-	QPSK	15	1	74	26865	831.5	1:1	1	0.241	0.142	0.08	23.83	24.00	1.040	0.251	22.6
LTE Band 26	3	Right Cheek	-	QPSK	15	1	74	26865	831.5	1:1	1	0.309	0.203	0.06	23.83	24.00	1.040	0.321	22.6
LTE Band 26	3	Right Tilted	-	QPSK	15	1	74	26865	831.5	1:1	1	0.141	0.095	0.01	23.83	24.00	1.040	0.147	22.6
LTE Band 26	3	Left Cheek	-	QPSK	15	36	39	26865	831.5	1:1	1	0.494	0.273	0.08	22.84	23.00	1.038	0.513	22.6
LTE Band 26	3	Left Tilted	-	QPSK	15	36	39	26865	831.5	1:1	1	0.184	0.102	-0.14	22.84	23.00	1.038	0.191	22.6
LTE Band 26	3	Right Cheek	-	QPSK	15	36	39	26865	831.5	1:1	1	0.244	0.152	-0.09	22.84	23.00	1.038	0.253	22.6
LTE Band	3	Right	-	QPSK	15	36	39	26865	831.5	1:1	1	0.109	0.069	-0.14	22.84	23.00	1.038	0.113	22.6

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26		Tilted																	
LTE Band 34	9	Left Cheek	-	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.739	0.394	0.15	21.24	22.00	1.191	0.880	22.6
LTE Band 34	9	Left Tilted	-	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.771	0.412	0.08	21.24	22.00	1.191	0.918	23.0
LTE Band 34	9	Right Cheek	-	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.440	0.240	-0.15	21.24	22.00	1.191	0.524	22.6
LTE Band 34	9	Right Tilted	-	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.477	0.255	0.05	21.24	22.00	1.191	0.568	22.6
LTE Band 34	9	Left Cheek	-	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.610	0.326	-0.16	21.29	22.00	1.178	0.719	22.6
LTE Band 34	9	Left Tilted	-	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.622	0.333	-0.12	21.29	22.00	1.178	0.733	22.6
LTE Band 34	9	Right Cheek	-	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.367	0.201	0.19	21.29	22.00	1.178	0.432	22.6
LTE Band 34	9	Right Tilted	-	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.393	0.208	-0.10	21.29	22.00	1.178	0.463	22.6
LTE Band 34	9	Left Tilted	-	QPSK	15	75	0	36275	2017.5	1:1.58	1	0.615	0.328	0.03	21.22	22.00	1.197	0.736	22.6
LTE Band 34	2	Left Cheek	-	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.036	0.016	-0.13	22.72	23.00	1.067	0.038	22.6
LTE Band 34	2	Left Tilted	-	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.026	0.013	-0.01	22.72	23.00	1.067	0.028	22.6
LTE Band 34	2	Right Cheek	-	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.021	0.011	0.17	22.72	23.00	1.067	0.022	22.6
LTE Band 34	2	Right Tilted	-	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.054	0.032	-0.07	22.72	23.00	1.067	0.058	22.6
LTE Band 34	2	Left Cheek	-	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.035	0.015	-0.18	21.65	22.00	1.084	0.038	22.6
LTE Band 34	2	Left Tilted	-	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.020	0.011	-0.17	21.65	22.00	1.084	0.022	22.6
LTE Band 34	2	Right Cheek	-	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.016	0.007	0.09	21.65	22.00	1.084	0.017	22.6
LTE Band 34	2	Right Tilted	-	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.045	0.028	0.15	21.65	22.00	1.084	0.049	22.6
LTE Band 38	9	Left Cheek	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.592	0.305	-0.07	23.53	24.00	1.114	0.659	21.8
LTE Band 38	9	Left Tilted	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.623	0.317	-0.03	23.53	24.00	1.114	0.694	21.8
LTE Band 38	9	Right Cheek	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.354	0.194	0.08	23.53	24.00	1.114	0.394	21.8
LTE Band 38	9	Right Tilted	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.384	0.207	-0.06	23.53	24.00	1.114	0.428	21.8
LTE Band 38	9	Left Cheek	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.475	0.254	0.13	22.62	23.00	1.091	0.518	21.8
LTE Band 38	9	Left Tilted	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.484	0.260	-0.10	22.62	23.00	1.091	0.528	21.8
LTE Band 38	9	Right Cheek	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.286	0.156	0.07	22.62	23.00	1.091	0.312	21.8
LTE Band 38	9	Right Tilted	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.306	0.162	0.10	22.62	23.00	1.091	0.334	21.8
LTE Band 38	2	Left Cheek	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.035	0.015	0.15	21.61	22.00	1.094	0.038	21.8
LTE Band 38	2	Left Tilted	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.025	0.012	-0.04	21.61	22.00	1.094	0.027	21.8
LTE Band 38	2	Right Cheek	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.020	0.011	0.17	21.61	22.00	1.094	0.022	21.8
LTE Band	2	Right	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.054	0.031	-0.01	21.61	22.00	1.094	0.059	21.8

38		Tilted																	
LTE Band 38	2	Left Cheek	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.039	0.018	-0.12	20.65	21.00	1.084	0.042	21.8
LTE Band 38	2	Left Tilted	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.019	0.012	-0.18	20.65	21.00	1.084	0.021	21.8
LTE Band 38	2	Right Cheek	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.017	0.007	-0.11	20.65	21.00	1.084	0.018	21.8
LTE Band 38	2	Right Tilted	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.046	0.026	0.14	20.65	21.00	1.084	0.050	21.8
LTE Band 38	3	Left Cheek	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.402	0.195	0.07	22.03	22.50	1.114	0.448	21.8
LTE Band 38	3	Left Tilted	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.095	0.049	0.17	22.03	22.50	1.114	0.106	21.8
LTE Band 38	3	Right Cheek	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.300	0.151	0.15	22.03	22.50	1.114	0.334	21.8
LTE Band 38	3	Right Tilted	-	QPSK	20	1	50	38000	2595	1:1.58	1	0.054	0.030	0.07	22.03	22.50	1.114	0.060	21.8
LTE Band 38	3	Left Cheek	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.304	0.151	0.06	21.13	21.50	1.089	0.331	21.8
LTE Band 38	3	Left Tilted	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.074	0.038	0.11	21.13	21.50	1.089	0.081	21.8
LTE Band 38	3	Right Cheek	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.236	0.199	0.04	21.13	21.50	1.089	0.257	21.8
LTE Band 38	3	Right Tilted	-	QPSK	20	50	25	38000	2595	1:1.58	1	0.044	0.022	-0.16	21.13	21.50	1.089	0.048	21.8
LTE Band 38	1	Left Cheek	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.057	0.040	0.19	22.28	22.50	1.052	0.060	21.8
LTE Band 38	1	Left Tilted	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.025	0.018	-0.07	22.28	22.50	1.052	0.026	21.8
LTE Band 38	1	Right Cheek	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.090	0.064	0.12	22.28	22.50	1.052	0.095	21.8
LTE Band 38	1	Right Tilted	-	QPSK	20	1	0	38000	2595	1:1.58	1	0.048	0.014	-0.04	22.28	22.50	1.052	0.050	21.8
LTE Band 38	1	Left Cheek	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.034	0.010	-0.01	21.30	21.50	1.047	0.036	21.8
LTE Band 38	1	Left Tilted	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.025	0.016	-0.06	21.30	21.50	1.047	0.026	21.8
LTE Band 38	1	Right Cheek	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.067	0.050	0.09	21.30	21.50	1.047	0.070	21.8
LTE Band 38	1	Right Tilted	-	QPSK	20	50	0	38000	2595	1:1.58	1	0.035	0.023	-0.09	21.30	21.50	1.047	0.037	21.8
LTE Band 40	9	Left Cheek	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.473	0.234	0.03	23.57	24.00	1.104	0.522	21.9
LTE Band 40	9	Left Tilted	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.499	0.254	-0.01	23.57	24.00	1.104	0.551	21.9
LTE Band 40	9	Right Cheek	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.283	0.143	-0.11	23.57	24.00	1.104	0.312	21.9
LTE Band 40	9	Right Tilted	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.307	0.152	-0.18	23.57	24.00	1.104	0.339	21.9
LTE Band 40	9	Left Tilted	-	QPSK	20	1	0	38750	2310	1:1.58	1	0.442	0.241	0.03	23.46	24.00	1.132	0.500	21.9
LTE Band 40	9	Left Tilted	-	QPSK	20	1	0	39550	2390	1:1.58	1	0.440	0.235	0.05	23.40	24.00	1.148	0.505	21.9
LTE Band 40	9	Left Cheek	-	QPSK	20	50	0	39150	2350	1:1.58	1	0.438	0.228	-0.15	22.54	23.00	1.112	0.487	21.9
LTE Band 40	9	Left Tilted	-	QPSK	20	50	0	39150	2350	1:1.58	1	0.446	0.232	-0.18	22.54	23.00	1.112	0.496	21.9
LTE Band	9	Right	-	QPSK	20	50	0	39150	2350	1:1.58	1	0.263	0.140	0.16	22.54	23.00	1.112	0.292	21.9

40		Cheek																	
LTE Band 40	9	Right Tilted	-	QPSK	20	50	0	39150	2350	1:1.58	1	0.282	0.145	-0.08	22.54	23.00	1.112	0.314	21.9
LTE Band 40	2	Left Cheek	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.032	0.018	-0.10	22.61	23.00	1.094	0.035	21.9
LTE Band 40	2	Left Tilted	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.025	0.013	0.05	22.61	23.00	1.094	0.027	21.9
LTE Band 40	2	Right Cheek	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.022	0.011	0.12	22.61	23.00	1.094	0.024	21.9
LTE Band 40	2	Right Tilted	-	QPSK	20	1	0	39150	2350	1:1.58	1	0.057	0.033	-0.16	22.61	23.00	1.094	0.062	21.9
LTE Band 40	2	Left Cheek	-	QPSK	20	50	25	39150	2350	1:1.58	1	0.033	0.019	-0.07	21.55	22.00	1.109	0.037	21.9
LTE Band 40	2	Left Tilted	-	QPSK	20	50	25	39150	2350	1:1.58	1	0.021	0.011	0.08	21.55	22.00	1.109	0.023	21.9
LTE Band 40	2	Right Cheek	-	QPSK	20	50	25	39150	2350	1:1.58	1	0.017	0.007	0.16	21.55	22.00	1.109	0.019	21.9
LTE Band 40	2	Right Tilted	-	QPSK	20	50	25	39150	2350	1:1.58	1	0.044	0.026	0.09	21.55	22.00	1.109	0.049	21.9
LTE Band 41	9	Left Cheek	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.393	0.215	0.05	26.66	27.00	1.081	0.425	22.6
LTE Band 41	9	Left Tilted	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.412	0.225	0.12	26.66	27.00	1.081	0.445	22.6
LTE Band 41	9	Right Cheek	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.235	0.131	0.14	26.66	27.00	1.081	0.254	22.6
LTE Band 41	9	Right Tilted	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.255	0.139	-0.07	26.66	27.00	1.081	0.276	22.6
LTE Band 41	9	Left Cheek	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.346	0.204	-0.15	25.81	26.00	1.045	0.362	22.6
LTE Band 41	9	Left Tilted	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.353	0.208	0.11	25.81	26.00	1.045	0.369	22.6
LTE Band 41	9	Right Cheek	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.208	0.125	0.11	25.81	26.00	1.045	0.217	22.6
LTE Band 41	9	Right Tilted	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.223	0.129	0.17	25.81	26.00	1.045	0.233	22.6
LTE Band 41	2	Left Cheek	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.021	0.012	0.07	21.89	22.00	1.026	0.022	22.6
LTE Band 41	2	Left Tilted	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.017	0.009	-0.17	21.89	22.00	1.026	0.017	22.6
LTE Band 41	2	Right Cheek	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.043	0.027	-0.03	21.89	22.00	1.026	0.044	22.6
LTE Band 41	2	Right Tilted	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.022	0.012	0.14	21.89	22.00	1.026	0.023	22.6
LTE Band 41	2	Left Cheek	-	QPSK	20	50	25	39750	2506	1:2.31	1	0.017	0.009	0.12	20.89	21.00	1.026	0.017	22.6
LTE Band 41	2	Left Tilted	-	QPSK	20	50	25	39750	2506	1:2.31	1	0.013	0.006	-0.06	20.89	21.00	1.026	0.013	22.6
LTE Band 41	2	Right Cheek	-	QPSK	20	50	25	39750	2506	1:2.31	1	0.038	0.023	-0.14	20.89	21.00	1.026	0.039	22.6
LTE Band 41	2	Right Tilted	-	QPSK	20	50	25	39750	2506	1:2.31	1	0.018	0.009	-0.07	20.89	21.00	1.026	0.018	22.6
LTE Band 41	3	Left Cheek	-	QPSK	20	1	50	40620	2593	1:2.31	1	0.561	0.205	0.05	23.80	24.00	1.047	0.587	22.6
LTE Band 41	3	Left Tilted	-	QPSK	20	1	50	40620	2593	1:2.31	1	0.110	0.058	0.19	23.80	24.00	1.047	0.115	22.6
LTE Band 41	3	Right Cheek	-	QPSK	20	1	50	40620	2593	1:2.31	1	0.397	0.187	0.12	23.80	24.00	1.047	0.416	22.6
LTE Band	3	Right	-	QPSK	20	1	50	40620	2593	1:2.31	1	0.061	0.035	-0.05	23.80	24.00	1.047	0.064	22.6

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41		Tilted																	
LTE Band 41	3	Left Cheek	-	QPSK	20	1	50	39750	2506	1:2.31	1	0.397	0.187	0.18	23.58	24.00	1.102	0.437	22.6
LTE Band 41	3	Left Cheek	-	QPSK	20	1	50	40185	2549.5	1:2.31	1	0.364	0.178	0.09	23.70	24.00	1.072	0.390	22.6
LTE Band 41	3	Left Cheek	-	QPSK	20	1	50	41055	2636.5	1:2.31	1	0.448	1.850	-0.16	23.74	24.00	1.062	0.476	22.6
LTE Band 41	3	Left Cheek	-	QPSK	20	1	50	41490	2680	1:2.31	1	0.495	1.950	-0.02	23.66	24.00	1.081	0.535	22.6
LTE Band 41	3	Left Cheek	-	QPSK	20	50	0	40620	2593	1:2.31	1	0.488	0.175	0.06	22.78	23.00	1.052	0.513	22.6
LTE Band 41	3	Left Tilted	-	QPSK	20	50	0	40620	2593	1:2.31	1	0.115	0.061	-0.19	22.78	23.00	1.052	0.121	22.6
LTE Band 41	3	Right Cheek	-	QPSK	20	50	0	40620	2593	1:2.31	1	0.364	0.178	0.10	22.78	23.00	1.052	0.383	22.6
LTE Band 41	3	Right Tilted	-	QPSK	20	50	0	40620	2593	1:2.31	1	0.062	0.036	-0.13	22.78	23.00	1.052	0.065	22.6
LTE Band 41	1	Left Cheek	-	QPSK	20	1	0	39750	2506	1:2.31	1	0.046	0.032	0.01	23.86	24.00	1.033	0.048	22.6
LTE Band 41	1	Left Tilted	-	QPSK	20	1	0	39750	2506	1:2.31	1	0.022	0.015	0.07	23.86	24.00	1.033	0.023	22.6
LTE Band 41	1	Right Cheek	-	QPSK	20	1	0	39750	2506	1:2.31	1	0.076	0.055	-0.19	23.86	24.00	1.033	0.079	22.6
LTE Band 41	1	Right Tilted	-	QPSK	20	1	0	39750	2506	1:2.31	1	0.055	0.043	-0.04	23.86	24.00	1.033	0.057	22.6
LTE Band 41	1	Left Cheek	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.029	0.008	0.09	22.89	23.00	1.026	0.030	22.6
LTE Band 41	1	Left Tilted	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.035	0.011	-0.06	22.89	23.00	1.026	0.036	22.6
LTE Band 41	1	Right Cheek	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.056	0.043	0.10	22.89	23.00	1.026	0.057	22.6
LTE Band 41	1	Right Tilted	-	QPSK	20	50	0	39750	2506	1:2.31	1	0.041	0.012	0.18	22.89	23.00	1.026	0.042	22.6
LTE Band 42	10	Left Cheek	-	QPSK	20	1	99	42590	3500	1:1.58	1	0.865	0.355	-0.03	23.23	23.50	1.064	0.920	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	1	99	42590	3500	1:1.58	1	0.909	0.382	-0.03	23.23	23.50	1.064	0.967	21.9
LTE Band 42	10	Right Cheek	-	QPSK	20	1	99	42590	3500	1:1.58	1	0.517	0.217	0.03	23.23	23.50	1.064	0.550	21.9
LTE Band 42	10	Right Tilted	-	QPSK	20	1	99	42590	3500	1:1.58	1	0.561	0.231	-0.07	23.23	23.50	1.064	0.597	21.9
LTE Band 42	10	Left Cheek	-	QPSK	20	1	50	41690	3410	1:1.58	1	0.759	0.311	0.01	23.16	23.50	1.081	0.820	21.9
LTE Band 42	10	Left Cheek	-	QPSK	20	1	50	43490	3590	1:1.58	1	0.755	0.308	0.12	23.12	23.50	1.091	0.824	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	1	50	41690	3410	1:1.58	1	0.801	0.345	0.03	23.16	23.50	1.081	0.866	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	1	50	43490	3590	1:1.58	1	0.803	0.336	-0.15	23.12	23.50	1.091	0.876	21.9
LTE Band 42	10	Right Cheek	-	QPSK	20	1	50	41690	3410	1:1.58	1	0.482	0.192	0.12	23.16	23.50	1.081	0.521	21.9
LTE Band 42	10	Right Cheek	-	QPSK	20	1	50	43490	3590	1:1.58	1	0.495	0.198	-0.03	23.12	23.50	1.091	0.540	21.9
LTE Band 42	10	Right Tilted	-	QPSK	20	1	50	41690	3410	1:1.58	1	0.512	0.208	0.05	23.16	23.50	1.081	0.553	21.9
LTE Band 42	10	Right Tilted	-	QPSK	20	1	50	43490	3590	1:1.58	1	0.529	0.215	0.17	23.12	23.50	1.091	0.577	21.9
LTE Band	10	Left	-	QPSK	20	1	99	42590	3500	1:1.58	1	0.901	0.368	-0.03	23.23	23.50	1.064	0.959	21.9

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42		Tilted with Repeat																	
LTE Band 42	10	Left Cheek	-	QPSK	20	50	50	42590	3500	1:1.58	1	0.572	0.276	0.07	22.27	22.50	1.054	0.603	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	50	50	42590	3500	1:1.58	1	0.884	0.372	0.09	22.27	22.50	1.054	0.932	21.9
LTE Band 42	10	Right Cheek	-	QPSK	20	50	50	42590	3500	1:1.58	1	0.345	0.170	0.12	22.27	22.50	1.054	0.364	21.9
LTE Band 42	10	Right Tilted	-	QPSK	20	50	50	42590	3500	1:1.58	1	0.369	0.176	0.02	22.27	22.50	1.054	0.389	21.9
LTE Band 42	10	Left Cheek	-	QPSK	20	50	50	41690	3410	1:1.58	1	0.568	0.265	0.10	22.15	22.50	1.084	0.616	21.9
LTE Band 42	10	Left Cheek	-	QPSK	20	50	50	43490	3590	1:1.58	1	0.542	0.252	-0.13	22.19	22.50	1.074	0.582	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	50	50	41690	3410	1:1.58	1	0.875	0.362	0.08	22.15	22.50	1.084	0.949	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	50	50	43490	3590	1:1.58	1	0.865	0.344	0.00	22.19	22.50	1.074	0.929	21.9
LTE Band 42	10	Left Tilted	-	QPSK	20	100	0	43490	3590	1:1.58	1	0.844	0.325	0.18	22.05	22.50	1.109	0.936	21.9
LTE Band 42	2	Left Cheek	-	QPSK	20	1	0	41690	3410	1:1.58	1	0.023	0.011	0.13	22.57	23.00	1.104	0.025	21.9
LTE Band 42	2	Left Tilted	-	QPSK	20	1	0	41690	3410	1:1.58	1	0.018	0.010	0.14	22.57	23.00	1.104	0.020	21.9
LTE Band 42	2	Right Cheek	-	QPSK	20	1	0	41690	3410	1:1.58	1	0.045	0.029	-0.04	22.57	23.00	1.104	0.050	21.9
LTE Band 42	2	Right Tilted	-	QPSK	20	1	0	41690	3410	1:1.58	1	0.023	0.012	0.01	22.57	23.00	1.104	0.025	21.9
LTE Band 42	2	Left Cheek	-	QPSK	20	50	0	41690	3410	1:1.58	1	0.017	0.009	0.14	21.51	22.00	1.119	0.019	21.9
LTE Band 42	2	Left Tilted	-	QPSK	20	50	0	41690	3410	1:1.58	1	0.014	0.006	0.06	21.51	22.00	1.119	0.016	21.9
LTE Band 42	2	Right Cheek	-	QPSK	20	50	0	41690	3410	1:1.58	1	0.037	0.023	-0.09	21.51	22.00	1.119	0.041	21.9
LTE Band 42	2	Right Tilted	-	QPSK	20	50	0	41690	3410	1:1.58	1	0.018	0.010	-0.14	21.51	22.00	1.119	0.020	21.9
LTE Band 42	8	Left Cheek	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.238	0.111	0.17	22.01	22.50	1.119	0.266	21.9
LTE Band 42	8	Left Tilted	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.247	0.116	0.17	22.01	22.50	1.119	0.276	21.9
LTE Band 42	8	Right Cheek	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.155	0.072	-0.01	22.01	22.50	1.119	0.173	21.9
LTE Band 42	8	Right Tilted	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.172	0.074	0.00	22.01	22.50	1.119	0.192	21.9
LTE Band 42	8	Left Cheek	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.189	0.089	0.07	20.99	21.50	1.125	0.213	21.9
LTE Band 42	8	Left Tilted	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.203	0.097	-0.07	20.99	21.50	1.125	0.228	21.9
LTE Band 42	8	Right Cheek	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.128	0.059	0.02	20.99	21.50	1.125	0.144	21.9
LTE Band 42	8	Right Tilted	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.148	0.064	0.16	20.99	21.50	1.125	0.167	21.9
LTE Band 42	5	Left Cheek	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.247	0.116	0.04	23.79	24.00	1.050	0.259	21.9
LTE Band 42	5	Left Tilted	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.133	0.056	-0.02	23.79	24.00	1.050	0.140	21.9
LTE Band	5	Right	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.255	0.014	-0.01	23.79	24.00	1.050	0.268	21.9

42		Cheek																	
LTE Band 42	5	Right Tilted	-	QPSK	20	1	0	42590	3500	1:1.58	1	0.052	0.023	0.04	23.79	24.00	1.050	0.055	21.9
LTE Band 42	5	Left Cheek	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.111	0.048	-0.13	22.73	23.00	1.064	0.118	21.9
LTE Band 42	5	Left Tilted	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.096	0.042	0.07	22.73	23.00	1.064	0.102	21.9
LTE Band 42	5	Right Cheek	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.222	0.081	0.03	22.73	23.00	1.064	0.236	21.9
LTE Band 42	5	Right Tilted	-	QPSK	20	50	0	42590	3500	1:1.58	1	0.050	0.017	0.00	22.73	23.00	1.064	0.053	21.9
LTE Band 66(4)	9	Left Cheek	-	QPSK	20	1	50	132322	1745	1:1	1	0.577	0.328	0.16	23.15	23.50	1.084	0.625	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	1	50	132322	1745	1:1	1	0.899	0.484	0.01	23.15	23.50	1.084	0.975	21.9
LTE Band 66(4)	9	Right Cheek	-	QPSK	20	1	50	132322	1745	1:1	1	0.426	0.240	0.16	23.15	23.50	1.084	0.462	21.9
LTE Band 66(4)	9	Right Tilted	-	QPSK	20	1	50	132322	1745	1:1	1	0.785	0.434	0.19	23.15	23.50	1.084	0.851	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	1	50	132072	1720	1:1	1	0.655	0.384	-0.08	22.99	23.50	1.125	0.737	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	1	50	132572	1770	1:1	1	0.678	0.388	0.18	23.07	23.50	1.104	0.749	21.9
LTE Band 66(4)	9	Left Tilted with Repeat	-	QPSK	20	1	50	132322	1745	1:1	1	0.865	0.475	0.03	23.15	23.50	1.084	0.938	21.9
LTE Band 66(4)	9	Left Cheek	-	QPSK	20	50	0	132322	1745	1:1	1	0.450	0.256	-0.06	22.16	22.50	1.081	0.486	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	50	0	132322	1745	1:1	1	0.563	0.318	0.13	22.16	22.50	1.081	0.609	21.9
LTE Band 66(4)	9	Right Cheek	-	QPSK	20	50	0	132322	1745	1:1	1	0.347	0.195	-0.16	22.16	22.50	1.081	0.375	21.9
LTE Band 66(4)	9	Right Tilted	-	QPSK	20	50	0	132322	1745	1:1	1	0.626	0.343	-0.07	22.16	22.50	1.081	0.677	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	50	0	132072	1720	1:1	1	0.552	0.325	0.17	22.07	22.50	1.104	0.609	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	50	0	132572	1770	1:1	1	0.556	0.332	0.17	21.99	22.50	1.125	0.626	21.9
LTE Band 66(4)	9	Left Tilted	-	QPSK	20	100	0	132322	1745	1:1	1	0.536	0.328	0.02	22.15	22.50	1.084	0.581	21.9
LTE Band 66(4)	2	Left Cheek	-	QPSK	20	1	0	132322	1745	1:1	1	0.025	0.013	0.16	21.35	21.50	1.035	0.026	21.9
LTE Band 66(4)	2	Left Tilted	-	QPSK	20	1	0	132322	1745	1:1	1	0.021	0.012	-0.05	21.35	21.50	1.035	0.022	21.9
LTE Band 66(4)	2	Right Cheek	-	QPSK	20	1	0	132322	1745	1:1	1	0.057	0.033	-0.05	21.35	21.50	1.035	0.059	21.9
LTE Band 66(4)	2	Right Tilted	-	QPSK	20	1	0	132322	1745	1:1	1	0.029	0.014	0.15	21.35	21.50	1.035	0.030	21.9
LTE Band 66(4)	2	Left Cheek	-	QPSK	20	50	0	132572	1770	1:1	1	0.020	0.012	0.18	20.29	20.50	1.050	0.021	21.9
LTE Band 66(4)	2	Left Tilted	-	QPSK	20	50	0	132572	1770	1:1	1	0.016	0.007	0.18	20.29	20.50	1.050	0.017	21.9
LTE Band 66(4)	2	Right Cheek	-	QPSK	20	50	0	132572	1770	1:1	1	0.045	0.028	-0.13	20.29	20.50	1.050	0.047	21.9
LTE Band 66(4)	2	Right Tilted	-	QPSK	20	50	0	132572	1770	1:1	1	0.021	0.011	-0.07	20.29	20.50	1.050	0.022	21.9
LTE Band	3	Left	-	QPSK	20	1	99	132322	1745	1:1	1	0.610	0.304	-0.18	23.11	23.50	1.094	0.667	21.9

66(4)		Cheek																	
LTE Band 66(4)	3	Left Tilted	-	QPSK	20	1	99	132322	1745	1:1	1	0.121	0.071	0.10	23.11	23.50	1.094	0.132	21.9
LTE Band 66(4)	3	Right Cheek	-	QPSK	20	1	99	132322	1745	1:1	1	0.307	0.174	0.04	23.11	23.50	1.094	0.336	21.9
LTE Band 66(4)	3	Right Tilted	-	QPSK	20	1	99	132322	1745	1:1	1	0.081	0.050	-0.13	23.11	23.50	1.094	0.089	21.9
LTE Band 66(4)	3	Left Cheek	-	QPSK	20	50	50	132322	1745	1:1	1	0.471	0.235	0.07	22.11	22.50	1.094	0.515	21.9
LTE Band 66(4)	3	Left Tilted	-	QPSK	20	50	50	132322	1745	1:1	1	0.100	0.059	-0.02	22.11	22.50	1.094	0.109	21.9
LTE Band 66(4)	3	Right Cheek	-	QPSK	20	50	50	132322	1745	1:1	1	0.243	0.136	0.17	22.11	22.50	1.094	0.266	21.9
LTE Band 66(4)	3	Right Tilted	-	QPSK	20	50	50	132322	1745	1:1	1	0.060	0.039	-0.17	22.11	22.50	1.094	0.066	21.9
NR n5	1	Left Cheek	-	QPSK	20	1	1	167300	836.5	1:1	1	0.059	0.038	-0.10	23.78	24.00	1.052	0.062	22.6
NR n5	1	Left Tilted	-	QPSK	20	1	1	167300	836.5	1:1	1	0.026	0.017	-0.14	23.78	24.00	1.052	0.027	22.6
NR n5	1	Right Cheek	-	QPSK	20	1	1	167300	836.5	1:1	1	0.062	0.045	-0.01	23.78	24.00	1.052	0.065	22.6
NR n5	1	Right Tilted	-	QPSK	20	1	1	167300	836.5	1:1	1	0.057	0.043	-0.10	23.78	24.00	1.052	0.060	22.6
NR n5	1	Left Cheek	-	QPSK	20	50	28	167300	836.5	1:1	1	0.034	0.010	-0.08	23.71	24.00	1.069	0.036	22.6
NR n5	1	Left Tilted	-	QPSK	20	50	28	167300	836.5	1:1	1	0.026	0.016	0.08	23.71	24.00	1.069	0.028	22.6
NR n5	1	Right Cheek	-	QPSK	20	50	28	167300	836.5	1:1	1	0.050	0.035	0.00	23.71	24.00	1.069	0.053	22.6
NR n5	1	Right Tilted	-	QPSK	20	50	28	167300	836.5	1:1	1	0.055	0.038	-0.14	23.71	24.00	1.069	0.059	22.6
NR n5	3	Left Cheek	-	QPSK	20	1	1	167300	836.5	1:1	1	0.744	0.402	-0.08	24.32	24.50	1.042	0.775	22.6
NR n5	3	Left Tilted	-	QPSK	20	1	1	167300	836.5	1:1	1	0.191	0.113	0.16	24.32	24.50	1.042	0.199	22.6
NR n5	3	Right Cheek	-	QPSK	20	1	1	167300	836.5	1:1	1	0.293	0.187	-0.17	24.32	24.50	1.042	0.305	22.6
NR n5	3	Right Tilted	-	QPSK	20	1	1	167300	836.5	1:1	1	0.147	0.095	-0.07	24.32	24.50	1.042	0.153	22.6
NR n5	3	Left Cheek	-	QPSK	20	50	28	167300	836.5	1:1	1	0.407	0.229	0.16	24.11	24.50	1.094	0.445	22.6
NR n5	3	Left Tilted	-	QPSK	20	50	28	167300	836.5	1:1	1	0.141	0.084	-0.02	24.11	24.50	1.094	0.154	22.6
NR n5	3	Right Cheek	-	QPSK	20	50	28	167300	836.5	1:1	1	0.204	0.130	0.15	24.11	24.50	1.094	0.223	22.6
NR n5	3	Right Tilted	-	QPSK	20	50	28	167300	836.5	1:1	1	0.121	0.077	-0.12	24.11	24.50	1.094	0.132	22.6
NR n7	9	Left Cheek	-	QPSK	20	1	1	507000	2535	1:1	1	0.809	0.428	0.02	23.09	23.50	1.099	0.889	22.6
NR n7	9	Left Tilted	-	QPSK	20	1	1	507000	2535	1:1	1	0.647	0.350	-0.14	23.09	23.50	1.099	0.711	22.6
NR n7	9	Right Cheek	-	QPSK	20	1	1	507000	2535	1:1	1	0.250	0.146	-0.07	23.09	23.50	1.099	0.275	22.6
NR n7	9	Right Tilted	-	QPSK	20	1	1	507000	2535	1:1	1	0.308	0.170	0.09	23.09	23.50	1.099	0.338	22.6
NR n7	9	Left Cheek	-	QPSK	20	1	1	502000	2510	1:1	1	0.633	0.335	-0.09	23.00	23.50	1.122	0.710	22.6
NR n7	9	Left	-	QPSK	20	1	1	512000	2560	1:1	1	0.645	0.342	-0.06	23.08	23.50	1.102	0.711	22.6

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		Cheek																	
NR n7	9	Left Cheek with Repeat	-	QPSK	20	1	1	507000	2535	1:1	1	0.808	0.425	0.07	23.09	23.50	1.099	0.888	22.6
NR n7	9	Left Cheek	-	QPSK	20	50	28	507000	2535	1:1	1	0.519	0.283	0.08	22.83	23.50	1.167	0.606	22.6
NR n7	9	Left Tilted	-	QPSK	20	50	28	507000	2535	1:1	1	0.493	0.260	-0.13	22.83	23.50	1.167	0.575	22.6
NR n7	9	Right Cheek	-	QPSK	20	50	28	507000	2535	1:1	1	0.289	0.164	0.05	22.83	23.50	1.167	0.337	22.6
NR n7	9	Right Tilted	-	QPSK	20	50	28	507000	2535	1:1	1	0.238	0.132	-0.11	22.83	23.50	1.167	0.278	22.6
NR n7	9	Left Cheek	-	QPSK	20	50	28	502000	2510	1:1	1	0.633	0.325	0.13	22.76	23.50	1.186	0.751	22.6
NR n7	9	Left Cheek	-	QPSK	20	50	28	512000	2560	1:1	1	0.658	0.344	0.05	22.83	23.50	1.167	0.768	22.6
NR n7	9	Left Cheek	-	QPSK	20	100	0	502000	2510	1:1	1	0.566	0.286	0.18	21.78	22.50	1.180	0.668	22.6
NR n7	2	Left Cheek	-	QPSK	20	1	104	507000	2535	1:1	1	0.025	0.014	-0.17	20.98	21.00	1.005	0.025	22.6
NR n7	2	Left Tilted	-	QPSK	20	1	104	507000	2535	1:1	1	0.020	0.011	-0.15	20.98	21.00	1.005	0.020	22.6
NR n7	2	Right Cheek	-	QPSK	20	1	104	507000	2535	1:1	1	0.052	0.034	-0.08	20.98	21.00	1.005	0.052	22.6
NR n7	2	Right Tilted	-	QPSK	20	1	104	507000	2535	1:1	1	0.029	0.014	0.05	20.98	21.00	1.005	0.029	22.6
NR n7	2	Left Cheek	-	QPSK	20	50	28	507000	2535	1:1	1	0.019	0.011	-0.12	20.82	21.00	1.042	0.020	22.6
NR n7	2	Left Tilted	-	QPSK	20	50	28	507000	2535	1:1	1	0.015	0.007	-0.13	20.82	21.00	1.042	0.016	22.6
NR n7	2	Right Cheek	-	QPSK	20	50	28	507000	2535	1:1	1	0.047	0.026	0.14	20.82	21.00	1.042	0.049	22.6
NR n7	2	Right Tilted	-	QPSK	20	50	28	507000	2535	1:1	1	0.021	0.011	0.00	20.82	21.00	1.042	0.022	22.6
NR n25(n2)	9	Left Cheek	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.596	0.325	0.05	23.65	24.00	1.084	0.646	22.6
NR n25(n2)	9	Left Tilted	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.763	0.388	-0.08	23.65	24.00	1.084	0.827	22.4
NR n25(n2)	9	Right Cheek	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.646	0.358	0.00	23.65	24.00	1.084	0.700	22.4
NR n25(n2)	9	Right Tilted	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.625	0.356	-0.19	23.65	24.00	1.084	0.678	22.4
NR n25(n2)	9	Left Tilted	-	QPSK	20	1	104	372000	1860	1:1	1	0.621	0.335	0.11	23.54	24.00	1.112	0.691	22.4
NR n25(n2)	9	Left Tilted	-	QPSK	20	1	104	381000	1905	1:1	1	0.618	0.325	0.15	23.56	24.00	1.107	0.684	22.4
NR n25(n2)	9	Left Cheek	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.439	0.242	-0.14	23.50	24.00	1.122	0.493	22.4
NR n25(n2)	9	Left Tilted	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.721	0.365	0.11	23.50	24.00	1.122	0.809	22.4
NR n25(n2)	9	Right Cheek	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.420	0.224	-0.15	23.50	24.00	1.122	0.471	22.4
NR n25(n2)	9	Right Tilted	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.547	0.316	-0.07	23.50	24.00	1.122	0.614	22.4
NR n25(n2)	9	Left Tilted	-	QPSK	20	50	28	372000	1860	1:1	1	0.622	0.334	0.02	23.47	24.00	1.130	0.703	22.4
NR	9	Left	-	QPSK	20	50	28	381000	1905	1:1	1	0.617	0.321	0.10	23.48	24.00	1.127	0.695	22.4

n25(n2)		Tilted																	
NR n25(n2)	9	Left Tilted	-	QPSK	20	100	0	381000	1905	1:1	1	0.548	0.278	-0.15	22.69	23.00	1.074	0.589	22.4
NR n25(n2)	2	Left Cheek	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.032	0.016	-0.07	23.72	24.00	1.067	0.034	22.4
NR n25(n2)	2	Left Tilted	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.025	0.013	-0.07	23.72	24.00	1.067	0.027	22.4
NR n25(n2)	2	Right Cheek	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.062	0.040	0.13	23.72	24.00	1.067	0.066	22.4
NR n25(n2)	2	Right Tilted	-	QPSK	20	1	104	376500	1882.5	1:1	1	0.035	0.016	-0.01	23.72	24.00	1.067	0.037	22.4
NR n25(n2)	2	Left Cheek	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.024	0.013	-0.05	23.59	24.00	1.099	0.026	22.4
NR n25(n2)	2	Left Tilted	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.020	0.008	0.06	23.59	24.00	1.099	0.022	22.4
NR n25(n2)	2	Right Cheek	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.056	0.034	0.05	23.59	24.00	1.099	0.062	22.4
NR n25(n2)	2	Right Tilted	-	QPSK	20	50	28	376500	1882.5	1:1	1	0.021	0.012	0.17	23.59	24.00	1.099	0.023	22.4
NR n40	9	Left Cheek	-	QPSK	80	1	1	470000	2350	1:1	1	0.245	0.128	0.00	21.84	22.00	1.038	0.254	22.6
NR n40	9	Left Tilted	-	QPSK	80	1	1	470000	2350	1:1	1	0.336	0.172	-0.14	21.84	22.00	1.038	0.349	22.6
NR n40	9	Right Cheek	-	QPSK	80	1	1	470000	2350	1:1	1	0.362	0.194	-0.18	21.84	22.00	1.038	0.376	22.6
NR n40	9	Right Tilted	-	QPSK	80	1	1	470000	2350	1:1	1	0.640	0.297	0.01	21.84	22.00	1.038	0.664	22.1
NR n40	9	Left Cheek	-	QPSK	80	108	55	470000	2350	1:1	1	0.214	0.100	0.12	21.72	22.00	1.067	0.228	22.6
NR n40	9	Left Tilted	-	QPSK	80	108	55	470000	2350	1:1	1	0.276	0.128	-0.02	21.72	22.00	1.067	0.294	22.6
NR n40	9	Right Cheek	-	QPSK	80	108	55	470000	2350	1:1	1	0.388	0.199	0.12	21.72	22.00	1.067	0.414	22.6
NR n40	9	Right Tilted	-	QPSK	80	108	55	470000	2350	1:1	1	0.484	0.225	0.18	21.72	22.00	1.067	0.516	22.6
NR n40	2	Left Cheek	-	QPSK	80	1	1	470000	2350	1:1	1	0.027	0.012	-0.18	21.37	21.50	1.030	0.028	22.6
NR n40	2	Left Tilted	-	QPSK	80	1	1	470000	2350	1:1	1	0.020	0.010	0.17	21.37	21.50	1.030	0.021	22.6
NR n40	2	Right Cheek	-	QPSK	80	1	1	470000	2350	1:1	1	0.053	0.032	0.02	21.37	21.50	1.030	0.055	22.6
NR n40	2	Right Tilted	-	QPSK	80	1	1	470000	2350	1:1	1	0.027	0.015	0.09	21.37	21.50	1.030	0.028	22.6
NR n40	2	Left Cheek	-	QPSK	80	108	55	470000	2350	1:1	1	0.019	0.011	-0.01	21.17	21.50	1.079	0.021	22.6
NR n40	2	Left Tilted	-	QPSK	80	108	55	470000	2350	1:1	1	0.017	0.007	0.14	21.17	21.50	1.079	0.018	22.6
NR n40	2	Right Cheek	-	QPSK	80	108	55	470000	2350	1:1	1	0.047	0.028	0.13	21.17	21.50	1.079	0.051	22.6
NR n40	2	Right Tilted	-	QPSK	80	108	55	470000	2350	1:1	1	0.021	0.012	0.10	21.17	21.50	1.079	0.023	22.6
NR n41(n38)	9	Left Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.514	0.188	-0.11	24.15	24.50	1.084	0.557	22.6
NR n41(n38)	9	Left Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.448	0.195	0.15	24.15	24.50	1.084	0.486	22.6
NR n41(n38)	9	Right Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.437	0.189	-0.12	24.15	24.50	1.084	0.474	22.6
NR	9	Right	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.336	0.163	0.00	24.15	24.50	1.084	0.364	22.6

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n41(n38)		Tilted																	
NR n41(n38)	9	Left Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.621	0.224	0.17	24.06	24.50	1.107	0.687	22.6
NR n41(n38)	9	Left Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.541	0.218	0.18	24.06	24.50	1.107	0.599	22.6
NR n41(n38)	9	Right Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.485	0.201	-0.04	24.06	24.50	1.107	0.537	22.6
NR n41(n38)	9	Right Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.414	0.208	0.04	24.06	24.50	1.107	0.458	22.6
NR n41(n38)	2	Left Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.027	0.014	0.07	22.42	22.50	1.019	0.028	22.6
NR n41(n38)	2	Left Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.022	0.011	0.14	22.42	22.50	1.019	0.022	22.6
NR n41(n38)	2	Right Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.053	0.032	0.08	22.42	22.50	1.019	0.054	22.6
NR n41(n38)	2	Right Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.027	0.015	0.16	22.42	22.50	1.019	0.028	22.6
NR n41(n38)	2	Left Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.019	0.011	-0.16	22.25	22.50	1.059	0.020	22.6
NR n41(n38)	2	Left Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.015	0.007	-0.02	22.25	22.50	1.059	0.016	22.6
NR n41(n38)	2	Right Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.043	0.028	0.08	22.25	22.50	1.059	0.046	22.6
NR n41(n38)	2	Right Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.021	0.011	0.05	22.25	22.50	1.059	0.022	22.6
NR n41(n38)	3	Left Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.650	0.258	0.07	23.17	23.50	1.079	0.701	23.0
NR n41(n38)	3	Left Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.107	0.050	0.12	23.17	23.50	1.079	0.115	22.6
NR n41(n38)	3	Right Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.205	0.101	0.15	23.17	23.50	1.079	0.221	22.6
NR n41(n38)	3	Right Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.049	0.026	-0.13	23.17	23.50	1.079	0.053	22.6
NR n41(n38)	3	Left Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.451	0.193	-0.03	22.97	23.50	1.130	0.510	22.6
NR n41(n38)	3	Left Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.106	0.053	-0.06	22.97	23.50	1.130	0.120	22.6
NR n41(n38)	3	Right Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.143	0.075	-0.05	22.97	23.50	1.130	0.162	22.6
NR n41(n38)	3	Right Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.047	0.025	0.10	22.97	23.50	1.130	0.053	22.6
NR n41(n38)	1	Left Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.059	0.041	0.08	22.33	22.50	1.040	0.061	22.6
NR n41(n38)	1	Left Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.025	0.018	0.18	22.33	22.50	1.040	0.026	22.6
NR n41(n38)	1	Right Cheek	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.089	0.069	0.06	22.33	22.50	1.040	0.093	22.6
NR n41(n38)	1	Right Tilted	-	QPSK	100	1	1	518598	2592.99	1:1	1	0.048	0.014	0.07	22.33	22.50	1.040	0.050	22.6
NR n41(n38)	1	Left Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.037	0.010	-0.17	22.29	22.50	1.050	0.039	22.6
NR n41(n38)	1	Left Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.043	0.012	-0.02	22.29	22.50	1.050	0.045	22.6
NR n41(n38)	1	Right Cheek	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.067	0.050	0.06	22.29	22.50	1.050	0.070	22.6
NR n41(n38)	1	Right Tilted	-	QPSK	100	135	69	518598	2592.99	1:1	1	0.042	0.015	0.19	22.29	22.50	1.050	0.044	22.6
NR n66	9	Left	-	QPSK	20	1	1	349000	1745	1:1	1	0.484	0.290	0.01	23.53	24.00	1.114	0.539	21.6

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		Cheek																	
NR n66	9	Left Tilted	-	QPSK	20	1	1	349000	1745	1:1	1	0.622	0.342	-0.07	23.53	24.00	1.114	0.693	21.6
NR n66	9	Right Cheek	-	QPSK	20	1	1	349000	1745	1:1	1	0.405	0.244	0.09	23.53	24.00	1.114	0.451	21.6
NR n66	9	Right Tilted	-	QPSK	20	1	1	349000	1745	1:1	1	0.658	0.355	-0.10	23.53	24.00	1.114	0.733	21.6
NR n66	9	Left Tilted	-	QPSK	20	1	1	344000	1720	1:1	1	0.565	0.315	-0.13	23.44	24.00	1.138	0.643	21.6
NR n66	9	Left Tilted	-	QPSK	20	1	1	354000	1770	1:1	1	0.568	0.321	0.16	23.41	24.00	1.146	0.651	21.6
NR n66	9	Left Cheek	-	QPSK	20	50	28	349000	1745	1:1	1	0.556	0.309	0.15	23.45	24.00	1.135	0.631	21.6
NR n66	9	Left Tilted	-	QPSK	20	50	28	349000	1745	1:1	1	0.651	0.354	0.01	23.45	24.00	1.135	0.739	21.6
NR n66	9	Right Cheek	-	QPSK	20	50	28	349000	1745	1:1	1	0.315	0.187	-0.04	23.45	24.00	1.135	0.358	21.6
NR n66	9	Right Tilted	-	QPSK	20	50	28	349000	1745	1:1	1	0.422	0.246	-0.06	23.45	24.00	1.135	0.479	21.6
NR n66	9	Left Tilted	-	QPSK	20	50	28	344000	1720	1:1	1	0.563	0.332	0.07	23.43	24.00	1.140	0.642	21.6
NR n66	9	Left Tilted	-	QPSK	20	50	28	354000	1770	1:1	1	0.622	0.342	0.15	23.38	24.00	1.153	0.717	21.6
NR n66	9	Left Tilted	-	QPSK	20	100	0	349000	1745	1:1	1	0.578	0.342	0.00	22.50	23.00	1.122	0.649	21.6
NR n66	2	Left Cheek	-	QPSK	20	1	1	349000	1745	1:1	1	0.023	0.011	-0.04	24.62	25.00	1.091	0.025	21.6
NR n66	2	Left Tilted	-	QPSK	20	1	1	349000	1745	1:1	1	0.019	0.010	-0.19	24.62	25.00	1.091	0.021	21.6
NR n66	2	Right Cheek	-	QPSK	20	1	1	349000	1745	1:1	1	0.050	0.029	0.16	24.62	25.00	1.091	0.055	21.6
NR n66	2	Right Tilted	-	QPSK	20	1	1	349000	1745	1:1	1	0.026	0.013	-0.14	24.62	25.00	1.091	0.028	21.6
NR n66	2	Left Cheek	-	QPSK	20	50	28	349000	1745	1:1	1	0.019	0.010	-0.13	24.73	25.00	1.064	0.020	21.6
NR n66	2	Left Tilted	-	QPSK	20	50	28	349000	1745	1:1	1	0.015	0.006	-0.11	24.73	25.00	1.064	0.016	21.6
NR n66	2	Right Cheek	-	QPSK	20	50	28	349000	1745	1:1	1	0.041	0.025	-0.14	24.73	25.00	1.064	0.044	21.6
NR n66	2	Right Tilted	-	QPSK	20	50	28	349000	1745	1:1	1	0.018	0.010	0.07	24.73	25.00	1.064	0.019	21.6
NR n66	3	Left Cheek	-	QPSK	20	1	53	349000	1745	1:1	1	0.526	0.278	-0.08	24.42	24.50	1.019	0.536	21.6
NR n66	3	Left Tilted	-	QPSK	20	1	53	349000	1745	1:1	1	0.175	0.100	-0.10	24.42	24.50	1.019	0.178	21.6
NR n66	3	Right Cheek	-	QPSK	20	1	53	349000	1745	1:1	1	0.364	0.194	-0.14	24.42	24.50	1.019	0.371	21.6
NR n66	3	Right Tilted	-	QPSK	20	1	53	349000	1745	1:1	1	0.219	0.126	-0.09	24.42	24.50	1.019	0.223	21.6
NR n66	3	Left Cheek	-	QPSK	20	50	28	349000	1745	1:1	1	0.417	0.223	0.05	24.30	24.50	1.047	0.437	21.6
NR n66	3	Left Tilted	-	QPSK	20	50	28	349000	1745	1:1	1	0.147	0.084	0.05	24.30	24.50	1.047	0.154	21.6
NR n66	3	Right Cheek	-	QPSK	20	50	28	349000	1745	1:1	1	0.197	0.115	0.16	24.30	24.50	1.047	0.206	21.6
NR n66	3	Right Tilted	-	QPSK	20	50	28	349000	1745	1:1	1	0.125	0.072	-0.10	24.30	24.50	1.047	0.131	21.6
NR n77	8	Left	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.242	0.109	-0.11	26.34	26.50	1.038	0.251	22.1

(3450-3550 n78)		Cheek																	
NR n77 (3450-3550 n78)	8	Left Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.267	0.120	0.08	26.34	26.50	1.038	0.277	22.1
NR n77 (3450-3550 n78)	8	Right Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.195	0.081	-0.19	26.34	26.50	1.038	0.202	22.1
NR n77 (3450-3550 n78)	8	Right Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.285	0.111	-0.19	26.34	26.50	1.038	0.296	21.3
NR n77 (3450-3550 n78)	8	Left Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.286	0.116	-0.04	26.24	26.50	1.062	0.304	22.1
NR n77 (3450-3550 n78)	8	Left Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.344	0.142	0.16	26.24	26.50	1.062	0.365	22.1
NR n77 (3450-3550 n78)	8	Right Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.273	0.111	0.04	26.24	26.50	1.062	0.290	22.1
NR n77 (3450-3550 n78)	8	Right Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.370	0.136	-0.06	26.24	26.50	1.062	0.393	22.1
NR n77 (3450-3550 n78)	5	Left Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.163	0.066	-0.13	24.33	24.50	1.040	0.170	22.1
NR n77 (3450-3550 n78)	5	Left Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.124	0.053	-0.04	24.33	24.50	1.040	0.129	22.1
NR n77 (3450-3550 n78)	5	Right Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.267	0.099	0.03	24.33	24.50	1.040	0.278	22.1
NR n77 (3450-3550 n78)	5	Right Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.057	0.023	0.11	24.33	24.50	1.040	0.059	22.1
NR n77 (3450-3550 n78)	5	Left Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.166	0.066	-0.07	24.28	24.50	1.052	0.175	22.1
NR n77 (3450-3550 n78)	5	Left Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.149	0.065	-0.06	24.28	24.50	1.052	0.157	22.1
NR n77 (3450-3550 n78)	5	Right Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.203	0.082	0.17	24.28	24.50	1.052	0.214	22.1
NR n77 (3450-3550 n78)	5	Right Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.083	0.036	-0.03	24.28	24.50	1.052	0.087	22.1
NR n77 (3450-3550 n78)	10	Left Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.404	0.185	0.03	17.03	17.50	1.114	0.450	22.1
NR n77 (3450-3550 n78)	10	Left Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.438	0.193	0.14	17.03	17.50	1.114	0.488	22.1
NR n77 (3450-3550 n78)	10	Right Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.599	0.264	0.15	17.03	17.50	1.114	0.667	22.1
NR n77 (3450-	10	Right Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.869	0.333	-0.19	17.03	17.50	1.114	0.968	22.1

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3550 n78)																			
NR n77 (3450-3550 n78)	10	Left Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.395	0.179	0.13	16.96	17.50	1.132	0.447	22.1
NR n77 (3450-3550 n78)	10	Left Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.509	0.227	-0.06	16.96	17.50	1.132	0.576	22.1
NR n77 (3450-3550 n78)	10	Right Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.661	0.295	-0.14	16.96	17.50	1.132	0.748	22.1
NR n77 (3450-3550 n78)	10	Right Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.865	0.325	0.00	16.96	17.50	1.132	0.979	21.3
NR n77 (3450-3550 n78)	10	Right Tilted	-	QPSK	100	270	0	633334	3500.01	1:1	1	0.611	0.275	0.03	16.10	16.50	1.096	0.670	21.3
NR n77 (3450-3550 n78)	10	Right Tilted with Repeat	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.855	0.318	0.02	16.96	17.50	1.132	0.968	21.3
NR n77 (3450-3550 n78)	2	Left Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.026	0.013	-0.14	23.27	23.50	1.054	0.027	22.1
NR n77 (3450-3550 n78)	2	Left Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.021	0.011	0.04	23.27	23.50	1.054	0.022	22.1
NR n77 (3450-3550 n78)	2	Right Cheek	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.052	0.033	0.13	23.27	23.50	1.054	0.055	22.1
NR n77 (3450-3550 n78)	2	Right Tilted	-	QPSK	100	1	1	633334	3500.01	1:1	1	0.029	0.015	0.19	23.27	23.50	1.054	0.031	22.1
NR n77 (3450-3550 n78)	2	Left Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.020	0.011	0.02	23.05	23.50	1.109	0.022	22.1
NR n77 (3450-3550 n78)	2	Left Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.016	0.007	-0.14	23.05	23.50	1.109	0.018	22.1
NR n77 (3450-3550 n78)	2	Right Cheek	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.046	0.026	0.14	23.05	23.50	1.109	0.051	22.1
NR n77 (3450-3550 n78)	2	Right Tilted	-	QPSK	100	135	69	633334	3500.01	1:1	1	0.021	0.011	0.18	23.05	23.50	1.109	0.023	22.1
NR n77 (3550-3700 n78)	8	Left Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.230	0.105	0.11	26.44	26.50	1.014	0.233	22.1
NR n77 (3550-3700 n78)	8	Left Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.254	0.113	0.05	26.44	26.50	1.014	0.258	22.1
NR n77 (3550-3700 n78)	8	Right Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.189	0.076	0.04	26.44	26.50	1.014	0.192	22.1
NR n77 (3550-3700 n78)	8	Right Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.277	0.108	-0.17	26.44	26.50	1.014	0.281	21.3
NR n77 (3550-	8	Left Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.278	0.108	-0.05	26.23	26.50	1.064	0.296	22.1

3700 n78)																			
NR n77 (3550-3700 n78)	8	Left Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.325	0.135	0.00	26.23	26.50	1.064	0.346	22.1
NR n77 (3550-3700 n78)	8	Right Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.255	0.105	0.08	26.23	26.50	1.064	0.271	22.1
NR n77 (3550-3700 n78)	8	Right Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.349	0.132	0.05	26.23	26.50	1.064	0.371	22.1
NR n77 (3550-3700 n78)	5	Left Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.158	0.062	-0.11	24.28	24.50	1.052	0.166	22.1
NR n77 (3550-3700 n78)	5	Left Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.119	0.050	-0.03	24.28	24.50	1.052	0.125	22.1
NR n77 (3550-3700 n78)	5	Right Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.259	0.096	-0.17	24.28	24.50	1.052	0.272	22.1
NR n77 (3550-3700 n78)	5	Right Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.055	0.022	-0.10	24.28	24.50	1.052	0.058	22.1
NR n77 (3550-3700 n78)	5	Left Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.155	0.063	0.08	24.38	24.50	1.028	0.159	22.1
NR n77 (3550-3700 n78)	5	Left Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.145	0.063	0.18	24.38	24.50	1.028	0.149	22.1
NR n77 (3550-3700 n78)	5	Right Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.197	0.077	0.01	24.38	24.50	1.028	0.203	22.1
NR n77 (3550-3700 n78)	5	Right Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.078	0.035	0.08	24.38	24.50	1.028	0.080	22.1
NR n77 (3550-3700 n78)	10	Left Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.385	0.173	-0.18	16.99	17.50	1.125	0.433	22.1
NR n77 (3550-3700 n78)	10	Left Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.425	0.184	-0.11	16.99	17.50	1.125	0.478	22.1
NR n77 (3550-3700 n78)	10	Right Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.560	0.247	-0.09	16.99	17.50	1.125	0.630	22.1
NR n77 (3550-3700 n78)	10	Right Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.789	0.315	-0.11	16.99	17.50	1.125	0.888	22.1
NR n77 (3550-3700 n78)	10	Left Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.376	0.172	0.01	16.95	17.50	1.135	0.427	22.1
NR n77 (3550-3700 n78)	10	Left Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.485	0.216	-0.15	16.95	17.50	1.135	0.550	22.1
NR n77 (3550-3700 n78)	10	Right Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.624	0.281	-0.03	16.95	17.50	1.135	0.708	22.1
NR n77 (3550-3700 n78)	10	Right Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.799	0.305	-0.10	16.95	17.50	1.135	0.907	21.3

NR n77 (3550-3700 n78)	10	Right Tilted	-	QPSK	100	270	0	641667	3625.01	1:1	1	0.571	0.264	-0.02	15.89	16.50	1.151	0.657	21.3
NR n77 (3550-3700 n78)	2	Left Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.025	0.012	0.10	23.27	23.50	1.054	0.026	22.1
NR n77 (3550-3700 n78)	2	Left Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.020	0.010	0.13	23.27	23.50	1.054	0.021	22.1
NR n77 (3550-3700 n78)	2	Right Cheek	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.050	0.032	-0.05	23.27	23.50	1.054	0.053	22.1
NR n77 (3550-3700 n78)	2	Right Tilted	-	QPSK	100	1	1	641667	3625.01	1:1	1	0.028	0.014	-0.15	23.27	23.50	1.054	0.030	22.1
NR n77 (3550-3700 n78)	2	Left Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.019	0.011	0.06	23.05	23.50	1.109	0.021	22.1
NR n77 (3550-3700 n78)	2	Left Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.015	0.007	0.03	23.05	23.50	1.109	0.017	22.1
NR n77 (3550-3700 n78)	2	Right Cheek	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.045	0.025	0.16	23.05	23.50	1.109	0.050	22.1
NR n77 (3550-3700 n78)	2	Right Tilted	-	QPSK	100	135	69	641667	3625.01	1:1	1	0.020	0.011	-0.09	23.05	23.50	1.109	0.022	22.1
NR n77 (3700-3980 n78)	8	Left Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.410	0.181	-0.08	26.41	26.50	1.021	0.419	22.1
NR n77 (3700-3980 n78)	8	Left Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.459	0.184	-0.14	26.41	26.50	1.021	0.469	22.1
NR n77 (3700-3980 n78)	8	Right Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.462	0.179	0.11	26.41	26.50	1.021	0.472	22.1
NR n77 (3700-3980 n78)	8	Right Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.486	0.185	-0.13	26.41	26.50	1.021	0.496	22.1
NR n77 (3700-3980 n78)	8	Left Cheek	-	QPSK	100	1	1	654800	3822	1:1	1	0.485	0.185	0.12	26.40	26.50	1.023	0.496	22.1
NR n77 (3700-3980 n78)	8	Left Tilted	-	QPSK	100	1	1	654800	3822	1:1	1	0.523	0.189	-0.03	26.40	26.50	1.023	0.535	22.1
NR n77 (3700-3980 n78)	8	Right Cheek	-	QPSK	100	1	1	654800	3822	1:1	1	0.589	0.198	0.04	26.40	26.50	1.023	0.603	22.1
NR n77 (3700-3980 n78)	8	Right Tilted	-	QPSK	100	1	1	654800	3822	1:1	1	0.622	0.221	0.15	26.40	26.50	1.023	0.636	22.1
NR n77 (3700-3980 n78)	8	Left Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.444	0.193	0.07	26.21	26.50	1.069	0.475	22.1
NR n77 (3700-3980 n78)	8	Left Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.519	0.206	-0.10	26.21	26.50	1.069	0.555	22.1
NR n77	8	Right	-	QPSK	100	135	69	657200	3858	1:1	1	0.515	0.201	0.05	26.21	26.50	1.069	0.551	22.1

(3700-3980 n78)		Cheek																	
NR n77 (3700-3980 n78)	8	Right Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.638	0.231	0.13	26.21	26.50	1.069	0.682	22.1
NR n77 (3700-3980 n78)	8	Left Cheek	-	QPSK	100	135	69	654800	3822	1:1	1	0.452	0.199	0.02	26.31	26.50	1.045	0.472	22.1
NR n77 (3700-3980 n78)	8	Left Tilted	-	QPSK	100	135	69	654800	3822	1:1	1	0.524	0.215	0.08	26.31	26.50	1.045	0.548	22.1
NR n77 (3700-3980 n78)	8	Right Cheek	-	QPSK	100	135	69	654800	3822	1:1	1	0.523	0.212	-0.03	26.31	26.50	1.045	0.547	22.1
NR n77 (3700-3980 n78)	8	Right Tilted	-	QPSK	100	135	69	654800	3822	1:1	1	0.642	0.238	-0.01	26.31	26.50	1.045	0.671	22.1
NR n77 (3700-3980 n78)	5	Left Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.149	0.061	-0.10	24.35	24.50	1.035	0.154	22.1
NR n77 (3700-3980 n78)	5	Left Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.124	0.054	-0.10	24.35	24.50	1.035	0.128	22.1
NR n77 (3700-3980 n78)	5	Right Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.225	0.082	0.15	24.35	24.50	1.035	0.233	22.1
NR n77 (3700-3980 n78)	5	Right Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.090	0.037	-0.08	24.35	24.50	1.035	0.093	22.1
NR n77 (3700-3980 n78)	5	Left Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.166	0.070	-0.05	24.32	24.50	1.042	0.173	22.1
NR n77 (3700-3980 n78)	5	Left Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.126	0.056	0.15	24.32	24.50	1.042	0.131	22.1
NR n77 (3700-3980 n78)	5	Right Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.349	0.120	-0.07	24.32	24.50	1.042	0.364	22.1
NR n77 (3700-3980 n78)	5	Right Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.102	0.045	0.06	24.32	24.50	1.042	0.106	22.1
NR n77 (3700-3980 n78)	10	Left Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.281	0.117	0.03	17.02	17.50	1.117	0.314	22.1
NR n77 (3700-3980 n78)	10	Left Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.353	0.145	0.10	17.02	17.50	1.117	0.394	22.1
NR n77 (3700-3980 n78)	10	Right Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.435	0.162	-0.04	17.02	17.50	1.117	0.486	22.1
NR n77 (3700-3980 n78)	10	Right Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.463	0.188	0.10	17.02	17.50	1.117	0.517	22.1
NR n77 (3700-3980 n78)	10	Right Cheek	-	QPSK	100	1	1	654800	3822	1:1	1	0.621	0.241	0.15	16.96	17.50	1.132	0.703	22.1
NR n77 (3700-	10	Right Tilted	-	QPSK	100	1	1	654800	3822	1:1	1	0.678	0.261	-0.06	16.96	17.50	1.132	0.767	22.1

3980 n78)																			
NR n77 (3700-3980 n78)	10	Left Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.351	0.148	0.13	16.74	17.50	1.191	0.418	22.1
NR n77 (3700-3980 n78)	10	Left Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.465	0.191	-0.12	16.74	17.50	1.191	0.554	22.1
NR n77 (3700-3980 n78)	10	Right Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.563	0.219	0.09	16.74	17.50	1.191	0.671	22.1
NR n77 (3700-3980 n78)	10	Right Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.738	0.263	-0.08	16.74	17.50	1.191	0.879	22.1
NR n77 (3700-3980 n78)	10	Left Cheek	-	QPSK	100	135	69	654800	3822	1:1	1	0.355	0.152	-0.16	16.74	17.50	1.191	0.423	22.1
NR n77 (3700-3980 n78)	10	Left Tilted	-	QPSK	100	135	69	654800	3822	1:1	1	0.472	0.195	0.05	16.74	17.50	1.191	0.562	22.1
NR n77 (3700-3980 n78)	10	Right Cheek	-	QPSK	100	135	69	654800	3822	1:1	1	0.578	0.224	-0.10	16.74	17.50	1.191	0.688	22.1
NR n77 (3700-3980 n78)	10	Right Tilted	-	QPSK	100	135	69	654800	3822	1:1	1	0.747	0.269	-0.04	16.74	17.50	1.191	0.890	22.1
NR n77 (3700-3980 n78)	2	Left Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.026	0.013	0.11	23.23	23.50	1.064	0.028	22.1
NR n77 (3700-3980 n78)	2	Left Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.022	0.011	-0.09	23.23	23.50	1.064	0.023	22.1
NR n77 (3700-3980 n78)	2	Right Cheek	-	QPSK	100	1	1	657200	3858	1:1	1	0.055	0.033	-0.08	23.23	23.50	1.064	0.059	22.1
NR n77 (3700-3980 n78)	2	Right Tilted	-	QPSK	100	1	1	657200	3858	1:1	1	0.029	0.015	0.17	23.23	23.50	1.064	0.031	22.1
NR n77 (3700-3980 n78)	2	Left Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.020	0.011	0.06	22.97	23.50	1.130	0.023	22.1
NR n77 (3700-3980 n78)	2	Left Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.016	0.007	-0.07	22.97	23.50	1.130	0.018	22.1
NR n77 (3700-3980 n78)	2	Right Cheek	-	QPSK	100	135	69	657200	3858	1:1	1	0.047	0.026	0.19	22.97	23.50	1.130	0.053	22.1
NR n77 (3700-3980 n78)	2	Right Tilted	-	QPSK	100	135	69	657200	3858	1:1	1	0.020	0.012	0.10	22.97	23.50	1.130	0.023	22.1
WiFi 2.4G	4	Left Cheek	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.104	0.042	0.01	19.22	19.50	1.067	0.113	22.6
WiFi 2.4G	4	Left Tilted	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.112	0.028	-0.18	19.22	19.50	1.067	0.121	22.6
WiFi 2.4G	4	Right Cheek	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.218	0.106	-0.11	19.22	19.50	1.067	0.236	22.6
WiFi 2.4G	4	Right Tilted	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.062	0.028	-0.03	19.22	19.50	1.067	0.067	22.6
WiFi 2.4G	8	Left	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.266	0.126	0.12	19.14	19.50	1.086	0.293	22.6

		Cheek																
WiFi 2.4G	8	Left Tilted	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.274	0.143	-0.09	19.14	19.50	1.086	0.302	22.6
WiFi 2.4G	8	Right Cheek	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.286	0.157	-0.13	19.14	19.50	1.086	0.315	22.6
WiFi 2.4G	8	Right Tilted	-	802.11b	20	-	-	6	2437	98.65%	1.014	0.461	0.217	0.07	19.14	19.50	1.086	0.508	22.6
WiFi 2.4G	8	Right Tilted	-	802.11b	20	-	-	1	2412	98.65%	1.014	0.406	0.197	-0.10	19.04	19.50	1.112	0.458	22.6
WiFi 2.4G	8	Right Tilted	-	802.11b	20	-	-	11	2462	98.65%	1.014	0.409	0.180	0.12	18.98	19.50	1.127	0.467	22.6
WiFi 2.4G	MIMO	Left Cheek	-	802.11n	40	-	-	6	2437	94.85%	1.054	0.104	0.045	0.15	22.19	22.50	1.074	0.118	22.6
WiFi 2.4G	MIMO	Left Tilted	-	802.11n	40	-	-	6	2437	94.85%	1.054	0.308	0.185	0.03	22.19	22.50	1.074	0.349	22.6
WiFi 2.4G	MIMO	Right Cheek	-	802.11n	40	-	-	6	2437	94.85%	1.054	0.118	0.062	0.17	22.19	22.50	1.074	0.134	22.6
WiFi 2.4G	MIMO	Right Tilted	-	802.11n	40	-	-	6	2437	94.85%	1.054	0.238	0.126	-0.17	22.19	22.50	1.074	0.269	22.6
WiFi 5G U-NII-2A	5	Left Cheek	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.077	0.018	-0.02	19.01	19.50	1.119	0.088	21.6
WiFi 5G U-NII-2A	5	Left Tilted	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.077	0.017	0.07	19.01	19.50	1.119	0.088	21.6
WiFi 5G U-NII-2A	5	Right Cheek	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.030	0.007	-0.15	19.01	19.50	1.119	0.034	21.6
WiFi 5G U-NII-2A	5	Right Tilted	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.032	0.007	0.14	19.01	19.50	1.119	0.037	21.6
WiFi 5G U-NII-2C	5	Left Cheek	-	802.11a	20	-	-	120	5600	97.54%	1.025	0.042	0.010	-0.13	19.16	19.50	1.081	0.047	21.6
WiFi 5G U-NII-2C	5	Left Tilted	-	802.11a	20	-	-	120	5600	97.54%	1.025	0.074	0.015	0.07	19.16	19.50	1.081	0.082	21.6
WiFi 5G U-NII-2C	5	Right Cheek	-	802.11a	20	-	-	120	5600	97.54%	1.025	0.042	0.010	-0.09	19.16	19.50	1.081	0.047	21.6
WiFi 5G U-NII-2C	5	Right Tilted	-	802.11a	20	-	-	120	5600	97.54%	1.025	0.038	0.010	0.11	19.16	19.50	1.081	0.042	21.6
WiFi 5G U-NII-3	5	Left Cheek	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.101	0.025	0.04	18.75	19.00	1.059	0.113	21.6
WiFi 5G U-NII-3	5	Left Tilted	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.066	0.018	-0.02	18.75	19.00	1.059	0.074	21.6
WiFi 5G U-NII-3	5	Right Cheek	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.038	0.009	0.02	18.75	19.00	1.059	0.042	21.6
WiFi 5G U-NII-3	5	Right Tilted	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.050	0.013	-0.04	18.75	19.00	1.059	0.056	21.6
WiFi 5G U-NII-2A	10	Left Cheek	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.372	0.126	-0.14	18.41	19.00	1.146	0.437	21.6
WiFi 5G U-NII-2A	10	Left Tilted	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.245	0.092	0.04	18.41	19.00	1.146	0.288	21.6
WiFi 5G U-NII-2A	10	Right Cheek	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.294	0.101	0.15	18.41	19.00	1.146	0.345	21.6
WiFi 5G U-NII-2A	10	Right Tilted	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.334	0.118	0.03	18.41	19.00	1.146	0.392	21.6
WiFi 5G U-NII-2C	10	Left Cheek	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.254	0.096	0.06	18.60	19.00	1.096	0.293	21.6
WiFi 5G U-NII-2C	10	Left Tilted	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.284	0.102	-0.17	18.60	19.00	1.096	0.328	21.6
WiFi 5G U-NII-2C	10	Right Cheek	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.175	0.075	-0.10	18.60	19.00	1.096	0.202	21.6
WiFi 5G	10	Right	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.248	0.096	0.05	18.60	19.00	1.096	0.286	21.6

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U-NII-2C		Tilted																	
WiFi 5G U-NII-3	10	Left Cheek	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.229	0.085	-0.06	18.41	19.00	1.146	0.277	21.6
WiFi 5G U-NII-3	10	Left Tilted	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.202	0.074	0.02	18.41	19.00	1.146	0.244	21.6
WiFi 5G U-NII-3	10	Right Cheek	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.240	0.084	0.07	18.41	19.00	1.146	0.290	21.6
WiFi 5G U-NII-3	10	Right Tilted	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.275	0.094	-0.04	18.41	19.00	1.146	0.332	21.6
WiFi 5G U-NII-2A	MIMO	Left Cheek	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.463	0.139	0.02	21.73	22.00	1.064	0.505	21.6
WiFi 5G U-NII-2A	MIMO	Left Tilted	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.355	0.132	-0.19	21.73	22.00	1.064	0.387	21.6
WiFi 5G U-NII-2A	MIMO	Right Cheek	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.381	0.131	0.16	21.73	22.00	1.064	0.416	21.6
WiFi 5G U-NII-2A	MIMO	Right Tilted	-	802.11a	20	-	-	56	5280	97.54%	1.025	0.354	0.125	0.16	21.73	22.00	1.064	0.386	21.6
WiFi 5G U-NII-2C	MIMO	Left Cheek	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.292	0.112	-0.07	21.71	22.00	1.070	0.329	21.6
WiFi 5G U-NII-2C	MIMO	Left Tilted	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.286	0.106	0.07	21.71	22.00	1.070	0.323	21.6
WiFi 5G U-NII-2C	MIMO	Right Cheek	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.209	0.084	0.14	21.71	22.00	1.070	0.236	21.6
WiFi 5G U-NII-2C	MIMO	Right Tilted	-	802.11n	40	-	-	110	5550	94.85%	1.054	0.248	0.094	-0.01	21.71	22.00	1.070	0.280	21.6
WiFi 5G U-NII-3	MIMO	Left Cheek	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.291	0.095	0.16	21.59	22.00	1.098	0.337	21.6
WiFi 5G U-NII-3	MIMO	Left Tilted	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.249	0.087	-0.05	21.59	22.00	1.098	0.288	21.6
WiFi 5G U-NII-3	MIMO	Right Cheek	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.195	0.069	-0.16	21.59	22.00	1.098	0.226	21.6
WiFi 5G U-NII-3	MIMO	Right Tilted	-	802.11n	40	-	-	159	5795	94.85%	1.054	0.295	0.099	0.12	21.59	22.00	1.098	0.341	21.6
Bluetooth	4	Left Cheek	-	DH5	-	-	-	39	2441	77.22%	1.295	0.019	0.008	-0.04	13.42	13.50	1.019	0.025	21.6
Bluetooth	4	Left Tilted	-	DH5	-	-	-	39	2441	77.22%	1.295	0.019	0.005	0.03	13.42	13.50	1.019	0.025	21.6
Bluetooth	4	Right Cheek	-	DH5	-	-	-	39	2441	77.22%	1.295	0.037	0.020	0.13	13.42	13.50	1.019	0.049	21.6
Bluetooth	4	Right Tilted	-	DH5	-	-	-	39	2441	77.22%	1.295	0.011	0.005	-0.15	13.42	13.50	1.019	0.015	21.6
Bluetooth	8	Left Cheek	-	DH5	-	-	-	39	2441	77.22%	1.295	0.043	0.022	-0.13	12.70	13.00	1.072	0.060	21.6
Bluetooth	8	Left Tilted	-	DH5	-	-	-	39	2441	77.22%	1.295	0.047	0.026	0.12	12.70	13.00	1.072	0.065	21.6
Bluetooth	8	Right Cheek	-	DH5	-	-	-	39	2441	77.22%	1.295	0.051	0.028	0.11	12.70	13.00	1.072	0.071	21.6
Bluetooth	8	Right Tilted	-	DH5	-	-	-	39	2441	77.22%	1.295	0.109	0.062	0.07	12.70	13.00	1.072	0.151	21.6
Bluetooth	8	Right Tilted	-	DH5	-	-	-	0	2402	77.22%	1.295	0.075	0.042	0.03	11.69	13.00	1.352	0.131	21.6
Bluetooth	8	Right Tilted	-	DH5	-	-	-	78	2480	77.22%	1.295	0.071	0.041	0.05	11.59	13.00	1.384	0.127	21.6

WCDMA Band V						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Left Cheek	4182	0.988	0.975	1.013	N/A	N/A

LTE Band 5						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Left Cheek	20525	0.952	0.942	1.011	N/A	N/A

LTE Band 7						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Left Tilted	21100	0.963	0.955	1.008	N/A	N/A

LTE Band 42						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Left Tilted	42590	0.909	0.901	1.009	N/A	N/A

LTE Band 66(4)						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Left Tilted	132322	0.899	0.865	1.039	N/A	N/A

NR n7						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Left Cheek	507000	0.809	0.808	1.001	N/A	N/A

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NR n77 (3450-3550 n78)						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Right Tilted	633334	0.865	0.855	1.012	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						

8.3.2 SAR Result of Body worn&Hotspot with Fold

Test band	Antenna Number	Test position	Distance (mm)	Modulation	Bandwidth(MHz)	RB size	RB offset	Test channel	Frequency	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1g	SAR (W/kg) 10g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1g (W/kg)	Liquid Temp. (℃)
GSM 850	1	Front Side	10	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.048	0.027	0.19	29.26	29.50	1.057	0.051	22.1
GSM 850	1	Back Side	10	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.137	0.077	0.16	29.26	29.50	1.057	0.145	22.1
GSM 850	1	Right Side	10	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.111	0.048	0.18	29.26	29.50	1.057	0.117	22.1
GSM 850	1	Bottom Side	10	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.087	0.042	0.01	29.26	29.50	1.057	0.092	22.1
GSM 850	1	Back Side	10	GPRS 2TS	-	-	-	128	824.2	1:4.15	1	0.148	0.093	0.02	29.14	29.50	1.086	0.161	22.1
GSM 850	1	Back Side	10	GPRS 2TS	-	-	-	251	848.8	1:4.15	1	0.143	0.072	0.10	29.14	29.50	1.086	0.155	22.1
GSM 850	3	Front Side	10	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.033	0.018	0.08	26.15	26.50	1.084	0.036	22.1
GSM 850	3	Back Side	10	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.038	0.021	0.13	26.15	26.50	1.084	0.041	22.1
GSM 850	3	Right Side	10	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.072	0.035	-0.06	26.15	26.50	1.084	0.078	22.1
GSM 1900	9	Front Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.045	0.026	-0.05	28.86	29.00	1.033	0.046	22.1
GSM 1900	9	Back Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.166	0.092	-0.04	28.86	29.00	1.033	0.171	22.1
GSM 1900	9	Right Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.053	0.027	-0.09	28.86	29.00	1.033	0.055	22.1
GSM 1900	9	Top Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.223	0.120	-0.05	28.86	29.00	1.033	0.230	21.5
GSM 1900	9	Top Side	10	GPRS 1TS	-	-	-	512	1850.2	1:8.3	1	0.207	0.093	-0.18	28.58	29.00	1.102	0.228	22.1
GSM 1900	9	Top Side	10	GPRS 1TS	-	-	-	810	1909.8	1:8.3	1	0.209	0.096	-0.05	28.71	29.00	1.069	0.223	22.1
GSM 1900	2	Front Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.047	0.026	0.03	24.81	25.00	1.045	0.049	22.1
GSM 1900	2	Back Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.118	0.061	-0.04	24.81	25.00	1.045	0.123	22.1
GSM 1900	2	Left Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.145	0.078	-0.11	24.81	25.00	1.045	0.152	22.1
GSM 1900	2	Bottom Side	10	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.020	0.012	0.02	24.81	25.00	1.045	0.021	22.1
GSM 1900	2	Left Side	10	GPRS 1TS	-	-	-	512	1850.2	1:8.3	1	0.167	0.085	0.14	24.80	25.00	1.047	0.175	22.1
GSM 1900	2	Left Side	10	GPRS 1TS	-	-	-	810	1909.8	1:8.3	1	0.163	0.082	-0.06	24.77	25.00	1.054	0.172	22.1
WCDMA Band II	9	Front Side	10	RMC	-	-	-	9400	1880	1:1	1	0.042	0.028	-0.16	17.86	18.50	1.159	0.049	22.1
WCDMA Band II	9	Back Side	10	RMC	-	-	-	9400	1880	1:1	1	0.119	0.081	0.14	17.86	18.50	1.159	0.138	22.1
WCDMA Band II	9	Right Side	10	RMC	-	-	-	9400	1880	1:1	1	0.042	0.026	0.00	17.86	18.50	1.159	0.049	22.1
WCDMA Band II	9	Top Side	10	RMC	-	-	-	9400	1880	1:1	1	0.188	0.115	-0.03	17.86	18.50	1.159	0.218	22.1
WCDMA Band II	9	Top Side	10	RMC	-	-	-	9262	1852.4	1:1	1	0.187	0.116	0.12	17.82	18.50	1.169	0.219	22.1
WCDMA Band II	9	Top Side	10	RMC	-	-	-	9538	1907.6	1:1	1	0.228	0.123	-0.07	17.85	18.50	1.161	0.265	22.1
WCDMA Band II	2	Front Side	10	RMC	-	-	-	9400	1880	1:1	1	0.043	0.026	0.13	17.25	17.50	1.059	0.046	22.1
WCDMA Band II	2	Back Side	10	RMC	-	-	-	9400	1880	1:1	1	0.113	0.064	0.07	17.25	17.50	1.059	0.120	22.1

WCDMA Band II	2	Left Side	10	RMC	-	-	-	9400	1880	1:1	1	0.019	0.011	0.05	17.25	17.50	1.059	0.020	22.1
WCDMA Band II	2	Bottom Side	10	RMC	-	-	-	9400	1880	1:1	1	0.199	0.105	0.07	17.25	17.50	1.059	0.211	22.1
WCDMA Band II	2	Bottom Side	10	RMC	-	-	-	9262	1852.4	1:1	1	0.187	0.097	0.01	17.15	17.50	1.084	0.203	22.1
WCDMA Band II	2	Bottom Side	10	RMC	-	-	-	9538	1907.6	1:1	1	0.201	0.105	0.07	17.05	17.50	1.109	0.223	22.1
WCDMA Band IV	9	Front Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.049	0.028	0.03	17.26	17.50	1.057	0.052	22.1
WCDMA Band IV	9	Back Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.150	0.089	0.14	17.26	17.50	1.057	0.159	22.1
WCDMA Band IV	9	Right Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.047	0.022	0.17	17.26	17.50	1.057	0.050	22.1
WCDMA Band IV	9	Top Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.261	0.141	0.06	17.26	17.50	1.057	0.276	22.1
WCDMA Band IV	9	Top Side	10	RMC	-	-	-	1312	1712.4	1:1	1	0.249	0.126	-0.12	17.21	17.50	1.069	0.266	22.1
WCDMA Band IV	9	Top Side	10	RMC	-	-	-	1513	1752.6	1:1	1	0.266	0.146	-0.08	17.13	17.50	1.089	0.290	22.1
WCDMA Band IV	2	Front Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.050	0.030	0.16	17.22	17.50	1.067	0.053	22.1
WCDMA Band IV	2	Back Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.142	0.081	-0.15	17.22	17.50	1.067	0.152	22.1
WCDMA Band IV	2	Left Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.022	0.014	0.06	17.22	17.50	1.067	0.023	22.1
WCDMA Band IV	2	Bottom Side	10	RMC	-	-	-	1412	1732.4	1:1	1	0.227	0.124	0.02	17.22	17.50	1.067	0.242	22.1
WCDMA Band V	1	Front Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.118	0.074	-0.12	23.61	24.00	1.094	0.129	22.1
WCDMA Band V	1	Back Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.330	0.200	-0.06	23.61	24.00	1.094	0.361	22.1
WCDMA Band V	1	Right Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.223	0.120	0.10	23.61	24.00	1.094	0.244	22.1
WCDMA Band V	1	Bottom Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.236	0.127	-0.03	23.61	24.00	1.094	0.258	22.1
WCDMA Band V	1	Back Side	10	RMC	-	-	-	4132	826.4	1:1	1	0.223	0.120	-0.05	23.58	24.00	1.102	0.246	22.1
WCDMA Band V	1	Back Side	10	RMC	-	-	-	4233	846.6	1:1	1	0.236	0.127	0.19	23.51	24.00	1.119	0.264	22.1
WCDMA Band V	3	Front Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.118	0.072	0.14	20.72	21.00	1.067	0.126	22.1
WCDMA Band V	3	Back Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.240	0.137	-0.03	20.72	21.00	1.067	0.256	22.1
WCDMA Band V	3	Right Side	10	RMC	-	-	-	4182	836.4	1:1	1	0.289	0.148	0.06	20.72	21.00	1.067	0.308	22.1
LTE Band 5	1	Front Side	10	QPSK	10	1	49	20525	836.5	1:1	1	0.095	0.067	-0.15	24.39	24.50	1.026	0.097	22.1
LTE Band 5	1	Back Side	10	QPSK	10	1	49	20525	836.5	1:1	1	0.317	0.194	-0.05	24.39	24.50	1.026	0.325	22.1
LTE Band 5	1	Right Side	10	QPSK	10	1	49	20525	836.5	1:1	1	0.218	0.120	-0.05	24.39	24.50	1.026	0.224	22.1
LTE Band 5	1	Bottom Side	10	QPSK	10	1	49	20525	836.5	1:1	1	0.173	0.105	0.03	24.39	24.50	1.026	0.177	22.1
LTE Band 5	1	Front Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.071	0.051	0.17	23.34	23.50	1.038	0.074	22.1
LTE Band 5	1	Back Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.209	0.149	0.16	23.34	23.50	1.038	0.217	22.1

LTE Band 5	1	Right Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.148	0.089	0.08	23.34	23.50	1.038	0.154	22.1
LTE Band 5	1	Bottom Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.124	0.079	-0.16	23.34	23.50	1.038	0.129	22.1
LTE Band 5	3	Front Side	10	QPSK	10	1	0	20525	836.5	1:1	1	0.113	0.080	-0.12	19.61	20.00	1.094	0.124	22.1
LTE Band 5	3	Back Side	10	QPSK	10	1	0	20525	836.5	1:1	1	0.230	0.148	0.09	19.61	20.00	1.094	0.252	22.1
LTE Band 5	3	Right Side	10	QPSK	10	1	0	20525	836.5	1:1	1	0.285	0.172	0.08	19.61	20.00	1.094	0.312	22.1
LTE Band 5	3	Front Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.092	0.063	-0.08	19.75	20.00	1.059	0.097	22.1
LTE Band 5	3	Back Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.116	0.081	-0.17	19.75	20.00	1.059	0.123	22.1
LTE Band 5	3	Right Side	10	QPSK	10	25	25	20525	836.5	1:1	1	0.222	0.133	0.06	19.75	20.00	1.059	0.235	22.1
LTE Band 7	9	Front Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.068	0.040	0.00	15.67	16.00	1.079	0.073	22.1
LTE Band 7	9	Back Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.378	0.201	0.11	15.67	16.00	1.079	0.408	22.1
LTE Band 7	9	Right Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.182	0.092	0.04	15.67	16.00	1.079	0.196	22.1
LTE Band 7	9	Top Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.433	0.207	0.00	15.67	16.00	1.079	0.467	22.1
LTE Band 7	9	Front Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.073	0.040	0.02	15.52	16.00	1.117	0.082	22.1
LTE Band 7	9	Back Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.332	0.174	0.00	15.52	16.00	1.117	0.371	22.1
LTE Band 7	9	Right Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.148	0.073	0.00	15.52	16.00	1.117	0.165	22.1
LTE Band 7	9	Top Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.305	0.151	0.11	15.52	16.00	1.117	0.341	22.1
LTE Band 7	2	Front Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.107	0.059	-0.07	17.17	17.50	1.079	0.115	22.1
LTE Band 7	2	Back Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.274	0.139	0.05	17.17	17.50	1.079	0.296	22.1
LTE Band 7	2	Left Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.048	0.026	0.13	17.17	17.50	1.079	0.052	22.1
LTE Band 7	2	Bottom Side	10	QPSK	20	1	50	20850	2510	1:1	1	0.523	0.249	-0.16	17.17	17.50	1.079	0.564	22.1
LTE Band 7	2	Bottom Side	10	QPSK	20	1	0	20850	2510	1:1	1	0.523	0.249	-0.01	17.13	17.50	1.089	0.570	22.1
LTE Band 7	2	Bottom Side	10	QPSK	20	1	0	20850	2510	1:1	1	0.392	0.187	0.06	17.13	17.50	1.089	0.427	22.1
LTE Band 7	2	Front Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.085	0.046	0.01	17.17	17.50	1.079	0.092	22.1
LTE Band 7	2	Back Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.202	0.104	-0.15	17.17	17.50	1.079	0.218	22.1
LTE Band 7	2	Left Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.037	0.019	-0.03	17.17	17.50	1.079	0.040	22.1
LTE Band 7	2	Bottom Side	10	QPSK	20	50	0	20850	2510	1:1	1	0.393	0.185	0.11	17.17	17.50	1.079	0.424	22.1
LTE Band 12(17)	1	Front Side	10	QPSK	10	1	0	23095	707.5	1:1	1	0.071	0.046	0.14	23.81	24.00	1.045	0.074	22.1
LTE Band 12(17)	1	Back Side	10	QPSK	10	1	0	23095	707.5	1:1	1	0.230	0.141	-0.03	23.81	24.00	1.045	0.240	22.1
LTE Band 12(17)	1	Right Side	10	QPSK	10	1	0	23095	707.5	1:1	1	0.165	0.082	0.13	23.81	24.00	1.045	0.172	22.1

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LTE Band 12(17)	1	Bottom Side	10	QPSK	10	1	0	23095	707.5	1:1	1	0.131	0.072	0.16	23.81	24.00	1.045	0.137	22.1
LTE Band 12(17)	1	Front Side	10	QPSK	10	25	0	23095	707.5	1:1	1	0.052	0.033	0.12	22.89	23.00	1.026	0.053	22.1
LTE Band 12(17)	1	Back Side	10	QPSK	10	25	0	23095	707.5	1:1	1	0.195	0.122	0.00	22.89	23.00	1.026	0.200	22.1
LTE Band 12(17)	1	Right Side	10	QPSK	10	25	0	23095	707.5	1:1	1	0.108	0.059	-0.03	22.89	23.00	1.026	0.111	22.1
LTE Band 12(17)	1	Bottom Side	10	QPSK	10	25	0	23095	707.5	1:1	1	0.091	0.053	-0.13	22.89	23.00	1.026	0.093	22.1
LTE Band 12(17)	3	Front Side	10	QPSK	10	1	49	23095	707.5	1:1	1	0.092	0.060	0.10	22.47	22.50	1.007	0.093	22.1
LTE Band 12(17)	3	Back Side	10	QPSK	10	1	49	23095	707.5	1:1	1	0.187	0.112	0.06	22.47	22.50	1.007	0.188	22.1
LTE Band 12(17)	3	Right Side	10	QPSK	10	1	49	23095	707.5	1:1	1	0.213	0.121	-0.04	22.47	22.50	1.007	0.214	22.1
LTE Band 12(17)	3	Front Side	10	QPSK	10	25	25	23095	707.5	1:1	1	0.073	0.047	0.15	22.28	22.50	1.052	0.077	22.1
LTE Band 12(17)	3	Back Side	10	QPSK	10	25	25	23095	707.5	1:1	1	0.092	0.060	-0.19	22.28	22.50	1.052	0.097	22.1
LTE Band 12(17)	3	Right Side	10	QPSK	10	25	25	23095	707.5	1:1	1	0.178	0.099	0.14	22.28	22.50	1.052	0.187	22.1
LTE Band 25(2)	9	Front Side	10	QPSK	20	1	0	26365	1882.5	1:1	1	0.050	0.032	-0.16	19.57	20.00	1.104	0.055	22.1
LTE Band 25(2)	9	Back Side	10	QPSK	20	1	0	26365	1882.5	1:1	1	0.160	0.100	-0.13	19.57	20.00	1.104	0.177	22.1
LTE Band 25(2)	9	Right Side	10	QPSK	20	1	0	26365	1882.5	1:1	1	0.067	0.036	-0.07	19.57	20.00	1.104	0.074	22.1
LTE Band 25(2)	9	Top Side	10	QPSK	20	1	0	26365	1882.5	1:1	1	0.249	0.139	0.16	19.57	20.00	1.104	0.275	22.1
LTE Band 25(2)	9	Top Side	10	QPSK	20	1	0	26140	1860	1:1	1	0.235	0.128	-0.07	19.56	20.00	1.107	0.260	22.1
LTE Band 25(2)	9	Top Side	10	QPSK	20	1	99	26590	1905	1:1	1	0.256	0.138	0.01	19.45	20.00	1.135	0.291	22.1
LTE Band 25(2)	9	Front Side	10	QPSK	20	50	25	26365	1882.5	1:1	1	0.040	0.025	-0.12	19.51	20.00	1.119	0.045	22.1
LTE Band 25(2)	9	Back Side	10	QPSK	20	50	25	26365	1882.5	1:1	1	0.121	0.072	-0.11	19.51	20.00	1.119	0.135	22.1
LTE Band 25(2)	9	Right Side	10	QPSK	20	50	25	26365	1882.5	1:1	1	0.064	0.033	0.02	19.51	20.00	1.119	0.072	22.1
LTE Band 25(2)	9	Top Side	10	QPSK	20	50	25	26365	1882.5	1:1	1	0.194	0.102	0.02	19.51	20.00	1.119	0.217	22.1
LTE Band 25(2)	2	Front Side	10	QPSK	20	1	50	26365	1882.5	1:1	1	0.052	0.031	-0.04	16.90	17.00	1.023	0.053	22.1
LTE Band 25(2)	2	Back Side	10	QPSK	20	1	50	26365	1882.5	1:1	1	0.131	0.074	0.07	16.90	17.00	1.023	0.134	22.1
LTE Band 25(2)	2	Left Side	10	QPSK	20	1	50	26365	1882.5	1:1	1	0.022	0.013	0.01	16.90	17.00	1.023	0.023	22.1
LTE Band 25(2)	2	Bottom Side	10	QPSK	20	1	50	26365	1882.5	1:1	1	0.242	0.127	0.00	16.90	17.00	1.023	0.248	22.1
LTE Band 25(2)	2	Front Side	10	QPSK	20	50	50	26365	1882.5	1:1	1	0.043	0.025	0.19	16.86	17.00	1.033	0.044	22.1
LTE Band 25(2)	2	Back Side	10	QPSK	20	50	50	26365	1882.5	1:1	1	0.100	0.056	-0.18	16.86	17.00	1.033	0.103	22.1
LTE Band 25(2)	2	Left Side	10	QPSK	20	50	50	26365	1882.5	1:1	1	0.018	0.010	0.18	16.86	17.00	1.033	0.019	22.1
LTE Band 25(2)	2	Bottom Side	10	QPSK	20	50	50	26365	1882.5	1:1	1	0.191	0.101	-0.14	16.86	17.00	1.033	0.197	22.1

LTE Band 26	1	Front Side	10	QPSK	15	1	0	26865	831.5	1:1	1	0.086	0.061	-0.08	23.53	24.00	1.114	0.096	22.1
LTE Band 26	1	Back Side	10	QPSK	15	1	0	26865	831.5	1:1	1	0.298	0.182	-0.02	23.53	24.00	1.114	0.332	22.1
LTE Band 26	1	Right Side	10	QPSK	15	1	0	26865	831.5	1:1	1	0.198	0.108	0.09	23.53	24.00	1.114	0.221	22.1
LTE Band 26	1	Bottom Side	10	QPSK	15	1	0	26865	831.5	1:1	1	0.157	0.093	0.07	23.53	24.00	1.114	0.175	22.1
LTE Band 26	1	Front Side	10	QPSK	15	36	0	26865	831.5	1:1	1	0.067	0.047	-0.03	22.59	23.00	1.099	0.074	22.1
LTE Band 26	1	Back Side	10	QPSK	15	36	0	26865	831.5	1:1	1	0.199	0.140	0.05	22.59	23.00	1.099	0.219	22.1
LTE Band 26	1	Right Side	10	QPSK	15	36	0	26865	831.5	1:1	1	0.141	0.083	0.07	22.59	23.00	1.099	0.155	22.1
LTE Band 26	1	Bottom Side	10	QPSK	15	36	0	26865	831.5	1:1	1	0.119	0.074	0.05	22.59	23.00	1.099	0.131	22.1
LTE Band 26	3	Front Side	10	QPSK	15	1	74	26865	831.5	1:1	1	0.126	0.086	-0.10	20.93	21.00	1.016	0.128	22.1
LTE Band 26	3	Back Side	10	QPSK	15	1	74	26865	831.5	1:1	1	0.257	0.161	0.15	20.93	21.00	1.016	0.261	22.1
LTE Band 26	3	Right Side	10	QPSK	15	1	74	26865	831.5	1:1	1	0.318	0.186	-0.17	20.93	21.00	1.016	0.323	22.1
LTE Band 26	3	Front Side	10	QPSK	15	36	39	26865	831.5	1:1	1	0.099	0.066	0.10	20.94	21.00	1.014	0.100	22.1
LTE Band 26	3	Back Side	10	QPSK	15	36	39	26865	831.5	1:1	1	0.125	0.086	0.02	20.94	21.00	1.014	0.127	22.1
LTE Band 26	3	Right Side	10	QPSK	15	36	39	26865	831.5	1:1	1	0.241	0.140	0.02	20.94	21.00	1.014	0.244	22.1
LTE Band 34	9	Front Side	10	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.034	0.022	-0.14	20.79	21.50	1.178	0.040	22.1
LTE Band 34	9	Back Side	10	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.218	0.136	0.06	20.79	21.50	1.178	0.257	22.1
LTE Band 34	9	Right Side	10	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.033	0.019	0.16	20.79	21.50	1.178	0.039	22.1
LTE Band 34	9	Top Side	10	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.163	0.092	-0.03	20.79	21.50	1.178	0.192	22.1
LTE Band 34	9	Front Side	10	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.040	0.024	0.05	20.83	21.50	1.167	0.047	22.1
LTE Band 34	9	Back Side	10	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.176	0.111	-0.18	20.83	21.50	1.167	0.205	22.1
LTE Band 34	9	Right Side	10	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.033	0.019	-0.12	20.83	21.50	1.167	0.039	22.1
LTE Band 34	9	Top Side	10	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.133	0.075	0.08	20.83	21.50	1.167	0.155	22.1
LTE Band 34	2	Front Side	10	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.075	0.046	-0.11	19.68	20.00	1.076	0.081	22.1
LTE Band 34	2	Back Side	10	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.188	0.109	-0.16	19.68	20.00	1.076	0.202	22.1
LTE Band 34	2	Left Side	10	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.033	0.020	-0.08	19.68	20.00	1.076	0.036	22.1
LTE Band 34	2	Bottom Side	10	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.356	0.189	-0.04	19.68	20.00	1.076	0.383	22.1
LTE Band 34	2	Front Side	10	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.064	0.038	0.04	19.57	20.00	1.104	0.071	22.1
LTE Band 34	2	Back Side	10	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.150	0.085	0.02	19.57	20.00	1.104	0.166	22.1
LTE Band 34	2	Left Side	10	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.027	0.016	0.14	19.57	20.00	1.104	0.030	22.1

LTE Band 34	2	Bottom Side	10	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.284	0.153	0.11	19.57	20.00	1.104	0.314	22.1
LTE Band 38	9	Front Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.035	0.022	0.16	18.13	18.50	1.089	0.038	22.1
LTE Band 38	9	Back Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.170	0.104	0.05	18.13	18.50	1.089	0.185	22.1
LTE Band 38	9	Right Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.048	0.028	0.00	18.13	18.50	1.089	0.052	22.1
LTE Band 38	9	Top Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.137	0.079	-0.01	18.13	18.50	1.089	0.149	22.1
LTE Band 38	9	Front Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.028	0.018	-0.12	17.98	18.50	1.127	0.032	22.1
LTE Band 38	9	Back Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.139	0.081	0.12	17.98	18.50	1.127	0.157	22.1
LTE Band 38	9	Right Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.045	0.025	0.15	17.98	18.50	1.127	0.051	22.1
LTE Band 38	9	Top Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.111	0.061	-0.04	17.98	18.50	1.127	0.125	22.1
LTE Band 38	2	Front Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.120	0.065	0.18	18.62	19.00	1.091	0.131	22.1
LTE Band 38	2	Back Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.171	0.090	-0.16	18.62	19.00	1.091	0.187	22.1
LTE Band 38	2	Left Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.026	0.016	-0.19	18.62	19.00	1.091	0.028	22.1
LTE Band 38	2	Bottom Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.324	0.169	0.14	18.62	19.00	1.091	0.353	22.1
LTE Band 38	2	Front Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.090	0.048	-0.19	18.72	19.00	1.067	0.096	22.1
LTE Band 38	2	Back Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.134	0.071	0.03	18.72	19.00	1.067	0.143	22.1
LTE Band 38	2	Left Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.020	0.012	-0.15	18.72	19.00	1.067	0.021	22.1
LTE Band 38	2	Bottom Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.256	0.136	0.13	18.72	19.00	1.067	0.273	22.1
LTE Band 38	3	Front Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.110	0.061	-0.16	22.03	22.50	1.114	0.123	22.1
LTE Band 38	3	Back Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.301	0.165	-0.04	22.03	22.50	1.114	0.335	22.1
LTE Band 38	3	Right Side	10	QPSK	20	1	50	38000	2595	1:1.58	1	0.324	0.170	-0.09	22.03	22.50	1.114	0.361	22.1
LTE Band 38	3	Front Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.071	0.043	0.04	21.13	21.50	1.089	0.077	22.1
LTE Band 38	3	Back Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.223	0.126	-0.15	21.13	21.50	1.089	0.243	22.1
LTE Band 38	3	Right Side	10	QPSK	20	50	25	38000	2595	1:1.58	1	0.281	0.145	0.08	21.13	21.50	1.089	0.306	22.1
LTE Band 38	1	Front Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.035	0.019	-0.02	22.28	22.50	1.052	0.037	22.1
LTE Band 38	1	Back Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.074	0.041	0.15	22.28	22.50	1.052	0.078	22.1
LTE Band 38	1	Right Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.052	0.026	-0.17	22.28	22.50	1.052	0.055	22.1
LTE Band 38	1	Bottom Side	10	QPSK	20	1	0	38000	2595	1:1.58	1	0.024	0.013	0.17	22.28	22.50	1.052	0.025	22.1
LTE Band 38	1	Front Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.030	0.017	0.08	21.30	21.50	1.047	0.031	22.1
LTE Band 38	1	Back Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.064	0.036	0.04	21.30	21.50	1.047	0.067	22.1

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LTE Band 38	1	Right Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.056	0.031	-0.11	21.30	21.50	1.047	0.059	22.1
LTE Band 38	1	Bottom Side	10	QPSK	20	50	0	38000	2595	1:1.58	1	0.029	0.015	0.10	21.30	21.50	1.047	0.030	22.1
LTE Band 40	9	Front Side	10	QPSK	20	1	0	39150	2350	1:1.58	1	0.043	0.024	-0.07	17.43	18.00	1.140	0.049	22.1
LTE Band 40	9	Back Side	10	QPSK	20	1	0	39150	2350	1:1.58	1	0.129	0.073	-0.02	17.43	18.00	1.140	0.147	22.1
LTE Band 40	9	Right Side	10	QPSK	20	1	0	39150	2350	1:1.58	1	0.040	0.022	0.07	17.43	18.00	1.140	0.046	22.1
LTE Band 40	9	Top Side	10	QPSK	20	1	0	39150	2350	1:1.58	1	0.129	0.072	0.16	17.43	18.00	1.140	0.147	22.1
LTE Band 40	9	Front Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.050	0.029	-0.06	17.57	18.00	1.104	0.055	22.1
LTE Band 40	9	Back Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.123	0.069	0.04	17.57	18.00	1.104	0.136	22.1
LTE Band 40	9	Right Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.043	0.022	-0.13	17.57	18.00	1.104	0.047	22.1
LTE Band 40	9	Top Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.144	0.075	0.15	17.57	18.00	1.104	0.159	22.1
LTE Band 40	2	Front Side	10	QPSK	20	1	50	39150	2350	1:1.58	1	0.116	0.061	-0.03	19.66	20.00	1.081	0.125	22.1
LTE Band 40	2	Back Side	10	QPSK	20	1	50	39150	2350	1:1.58	1	0.165	0.085	-0.19	19.66	20.00	1.081	0.178	22.1
LTE Band 40	2	Left Side	10	QPSK	20	1	50	39150	2350	1:1.58	1	0.025	0.015	0.15	19.66	20.00	1.081	0.027	22.1
LTE Band 40	2	Bottom Side	10	QPSK	20	1	50	39150	2350	1:1.58	1	0.313	0.158	0.02	19.66	20.00	1.081	0.338	22.1
LTE Band 40	2	Front Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.111	0.057	0.02	19.64	20.00	1.086	0.121	22.1
LTE Band 40	2	Back Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.165	0.085	0.00	19.64	20.00	1.086	0.179	22.1
LTE Band 40	2	Left Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.024	0.015	-0.19	19.64	20.00	1.086	0.026	22.1
LTE Band 40	2	Bottom Side	10	QPSK	20	50	0	39150	2350	1:1.58	1	0.322	0.158	0.03	19.64	20.00	1.086	0.350	22.1
LTE Band 40	2	Bottom Side	10	QPSK	20	50	0	38750	2310	1:1.58	1	0.323	0.159	-0.03	19.25	20.00	1.189	0.384	22.1
LTE Band 40	2	Bottom Side	10	QPSK	20	50	0	39550	2390	1:1.58	1	0.291	0.142	0.02	19.07	20.00	1.239	0.361	22.1
LTE Band 41	9	Front Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.083	0.048	-0.09	21.41	21.50	1.021	0.085	22.1
LTE Band 41	9	Back Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.421	0.224	-0.02	21.41	21.50	1.021	0.430	22.1
LTE Band 41	9	Right Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.160	0.080	-0.06	21.41	21.50	1.021	0.163	22.1
LTE Band 41	9	Top Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.438	0.209	0.09	21.41	21.50	1.021	0.447	22.1
LTE Band 41	9	Front Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.088	0.050	-0.09	21.33	21.50	1.040	0.092	22.1
LTE Band 41	9	Back Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.453	0.230	-0.03	21.33	21.50	1.040	0.471	22.1
LTE Band 41	9	Right Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.181	0.088	0.15	21.33	21.50	1.040	0.188	22.1
LTE Band 41	9	Top Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.449	0.215	-0.16	21.33	21.50	1.040	0.467	22.1
LTE Band 41	2	Front Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.272	0.136	0.04	18.88	19.00	1.028	0.280	22.1

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LTE Band 41	2	Back Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.388	0.186	-0.13	18.88	19.00	1.028	0.399	22.1
LTE Band 41	2	Left Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.059	0.034	0.04	18.88	19.00	1.028	0.061	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.728	0.356	0.10	18.88	19.00	1.028	0.748	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	1	0	40185	2549.5	1:2.31	1	0.816	0.387	0.05	18.76	19.00	1.057	0.863	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	1	0	40620	2593	1:2.31	1	0.809	0.383	-0.03	18.88	19.00	1.028	0.832	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	1	0	41055	2636.5	1:2.31	1	0.710	0.333	-0.04	18.86	19.00	1.033	0.733	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	1	0	41490	2680	1:2.31	1	0.577	0.270	0.09	18.85	19.00	1.035	0.597	22.1
LTE Band 41	2	Bottom Side with Repeat	10	QPSK	20	1	0	40185	2549.5	1:2.31	1	0.806	0.375	0.03	18.76	19.00	1.057	0.852	22.1
LTE Band 41	2	Front Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.248	0.124	-0.07	18.85	19.00	1.035	0.257	22.1
LTE Band 41	2	Back Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.369	0.183	0.02	18.85	19.00	1.035	0.382	22.1
LTE Band 41	2	Left Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.054	0.032	0.03	18.85	19.00	1.035	0.056	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.710	0.340	-0.18	18.85	19.00	1.035	0.735	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	50	0	40185	2549.5	1:2.31	1	0.798	0.368	0.02	18.80	19.00	1.047	0.836	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	50	50	40620	2593	1:2.31	1	0.699	0.321	0.13	18.81	19.00	1.045	0.730	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	50	50	41055	2636.5	1:2.31	1	0.558	0.245	0.00	18.72	19.00	1.067	0.595	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	50	0	41490	2680	1:2.31	1	0.798	0.362	0.00	18.80	19.00	1.047	0.836	22.1
LTE Band 41	2	Bottom Side	10	QPSK	20	100	0	40620	2593	1:2.31	1	0.659	0.308	0.04	18.85	19.00	1.035	0.682	22.1
LTE Band 41	3	Front Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.216	0.108	0.18	20.85	21.00	1.035	0.224	22.1
LTE Band 41	3	Back Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.662	0.309	-0.02	20.85	21.00	1.035	0.685	22.1
LTE Band 41	3	Right Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.535	0.265	-0.02	20.85	21.00	1.035	0.554	22.1
LTE Band 41	3	Back Side	10	QPSK	20	1	50	40185	2549.5	1:2.31	1	0.678	0.315	-0.19	20.61	21.00	1.094	0.742	22.1
LTE Band 41	3	Back Side	10	QPSK	20	1	0	40620	2593	1:2.31	1	0.642	0.289	-0.06	20.78	21.00	1.052	0.675	22.1
LTE Band 41	3	Back Side	10	QPSK	20	1	0	41055	2636.5	1:2.31	1	0.548	0.232	0.13	20.72	21.00	1.067	0.585	22.1
LTE Band 41	3	Back Side	10	QPSK	20	1	50	41490	2680	1:2.31	1	0.667	0.316	-0.03	20.77	21.00	1.054	0.703	22.1
LTE Band 41	3	Front Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.212	0.106	0.15	20.79	21.00	1.050	0.223	22.1
LTE Band 41	3	Back Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.665	0.309	-0.15	20.79	21.00	1.050	0.698	22.1
LTE Band 41	3	Right Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.534	0.268	-0.05	20.79	21.00	1.050	0.561	22.1
LTE Band 41	3	Back Side	10	QPSK	20	50	50	40185	2549.5	1:2.31	1	0.675	0.312	0.10	20.79	21.00	1.050	0.709	22.1
LTE Band	3	Back	10	QPSK	20	50	0	40620	2593	1:2.31	1	0.638	0.285	-0.01	20.66	21.00	1.081	0.690	22.1

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41		Side																	
LTE Band 41	3	Back Side	10	QPSK	20	50	0	41055	2636.5	1:2.31	1	0.542	0.227	-0.19	20.64	21.00	1.086	0.589	22.1
LTE Band 41	3	Back Side	10	QPSK	20	50	0	41490	2680	1:2.31	1	0.662	0.311	0.02	20.71	21.00	1.069	0.708	22.1
LTE Band 41	1	Front Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.234	0.119	-0.06	23.86	24.00	1.033	0.242	22.1
LTE Band 41	1	Back Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.497	0.249	0.17	23.86	24.00	1.033	0.513	22.1
LTE Band 41	1	Right Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.349	0.157	-0.12	23.86	24.00	1.033	0.361	22.1
LTE Band 41	1	Bottom Side	10	QPSK	20	1	0	39750	2506	1:2.31	1	0.158	0.076	0.13	23.86	24.00	1.033	0.163	22.1
LTE Band 41	1	Front Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.219	0.107	0.17	22.89	23.00	1.026	0.225	22.1
LTE Band 41	1	Back Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.463	0.230	-0.01	22.89	23.00	1.026	0.475	22.1
LTE Band 41	1	Right Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.409	0.199	-0.09	22.89	23.00	1.026	0.420	22.1
LTE Band 41	1	Bottom Side	10	QPSK	20	50	0	39750	2506	1:2.31	1	0.210	0.096	0.12	22.89	23.00	1.026	0.215	22.1
LTE Band 42	10	Front Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.058	0.029	0.19	17.81	18.00	1.045	0.061	22.1
LTE Band 42	10	Back Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.095	0.049	-0.03	17.81	18.00	1.045	0.099	22.1
LTE Band 42	10	Left Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.027	0.014	-0.12	17.81	18.00	1.045	0.028	22.1
LTE Band 42	10	Top Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.118	0.058	-0.05	17.81	18.00	1.045	0.123	22.1
LTE Band 42	10	Front Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.033	0.016	-0.14	17.88	18.00	1.028	0.034	22.1
LTE Band 42	10	Back Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.058	0.028	-0.07	17.88	18.00	1.028	0.060	22.1
LTE Band 42	10	Left Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.017	0.008	0.03	17.88	18.00	1.028	0.017	22.1
LTE Band 42	10	Top Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.092	0.041	-0.09	17.88	18.00	1.028	0.095	22.1
LTE Band 42	10	Top Side	10	QPSK	20	1	99	41690	3410	1:1.58	1	0.119	0.055	0.10	17.71	18.00	1.069	0.127	22.1
LTE Band 42	10	Top Side	10	QPSK	20	1	50	43490	3590	1:1.58	1	0.107	0.048	-0.16	17.76	18.00	1.057	0.113	22.1
LTE Band 42	2	Front Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.027	0.013	0.15	19.54	20.00	1.112	0.030	22.1
LTE Band 42	2	Back Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.038	0.018	0.18	19.54	20.00	1.112	0.042	22.1
LTE Band 42	2	Left Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.006	0.003	-0.14	19.54	20.00	1.112	0.007	22.1
LTE Band 42	2	Bottom Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.068	0.030	0.11	19.54	20.00	1.112	0.076	22.1
LTE Band 42	2	Front Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.017	0.008	-0.15	19.49	20.00	1.125	0.019	22.1
LTE Band 42	2	Back Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.025	0.011	-0.18	19.49	20.00	1.125	0.028	22.1
LTE Band 42	2	Left Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.004	0.002	-0.12	19.49	20.00	1.125	0.005	22.1
LTE Band 42	2	Bottom Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.046	0.022	-0.12	19.49	20.00	1.125	0.052	22.1
LTE Band	8	Front	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.014	0.007	0.11	17.08	17.50	1.102	0.015	22.1

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42		Side																	
LTE Band 42	8	Back Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.061	0.029	-0.17	17.08	17.50	1.102	0.067	22.1
LTE Band 42	8	Right Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.010	0.003	-0.04	17.08	17.50	1.102	0.011	22.1
LTE Band 42	8	Top Side	10	QPSK	20	1	0	42590	3500	1:1.58	1	0.056	0.027	0.14	17.08	17.50	1.102	0.062	22.1
LTE Band 42	8	Front Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.011	0.006	0.07	17.05	17.50	1.109	0.012	22.1
LTE Band 42	8	Back Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.049	0.023	-0.10	17.05	17.50	1.109	0.054	22.1
LTE Band 42	8	Right Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.008	0.002	0.13	17.05	17.50	1.109	0.009	22.1
LTE Band 42	8	Top Side	10	QPSK	20	50	25	42590	3500	1:1.58	1	0.049	0.019	0.09	17.05	17.50	1.109	0.054	22.1
LTE Band 42	5	Front Side	10	QPSK	20	1	99	42590	3500	1:1.58	1	0.011	0.005	0.13	15.94	16.00	1.014	0.011	22.1
LTE Band 42	5	Back Side	10	QPSK	20	1	99	42590	3500	1:1.58	1	0.056	0.026	-0.19	15.94	16.00	1.014	0.057	22.1
LTE Band 42	5	Right Side	10	QPSK	20	1	99	42590	3500	1:1.58	1	0.106	0.042	-0.08	15.94	16.00	1.014	0.107	22.1
LTE Band 42	5	Top Side	10	QPSK	20	1	99	42590	3500	1:1.58	1	0.016	0.007	0.09	15.94	16.00	1.014	0.016	22.1
LTE Band 42	5	Right Side	10	QPSK	20	1	0	41690	3410	1:1.58	1	0.122	0.046	0.02	15.74	16.00	1.062	0.130	22.1
LTE Band 42	5	Right Side	10	QPSK	20	1	0	43490	3590	1:1.58	1	0.102	0.037	-0.19	15.77	16.00	1.054	0.108	22.1
LTE Band 42	5	Front Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.008	0.004	-0.08	15.85	16.00	1.035	0.008	22.1
LTE Band 42	5	Back Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.049	0.020	0.02	15.85	16.00	1.035	0.051	22.1
LTE Band 42	5	Right Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.089	0.032	0.13	15.85	16.00	1.035	0.092	22.1
LTE Band 42	5	Top Side	10	QPSK	20	50	0	42590	3500	1:1.58	1	0.014	0.006	0.00	15.85	16.00	1.035	0.014	22.1
LTE Band 66(4)	9	Front Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.029	0.018	-0.04	17.19	17.50	1.074	0.031	22.1
LTE Band 66(4)	9	Back Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.109	0.062	-0.06	17.19	17.50	1.074	0.117	22.1
LTE Band 66(4)	9	Right Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.034	0.018	-0.18	17.19	17.50	1.074	0.037	22.1
LTE Band 66(4)	9	Top Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.098	0.052	0.18	17.19	17.50	1.074	0.105	22.1
LTE Band 66(4)	9	Front Side	10	QPSK	20	50	25	132322	1745	1:1	1	0.024	0.014	-0.04	17.21	17.50	1.069	0.026	22.1
LTE Band 66(4)	9	Back Side	10	QPSK	20	50	25	132322	1745	1:1	1	0.084	0.047	-0.01	17.21	17.50	1.069	0.090	22.1
LTE Band 66(4)	9	Right Side	10	QPSK	20	50	25	132322	1745	1:1	1	0.029	0.014	0.19	17.21	17.50	1.069	0.031	22.1
LTE Band 66(4)	9	Top Side	10	QPSK	20	50	25	132322	1745	1:1	1	0.082	0.042	0.12	17.21	17.50	1.069	0.088	22.1
LTE Band 66(4)	2	Front Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.046	0.026	0.03	17.44	17.50	1.014	0.047	22.1
LTE Band 66(4)	2	Back Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.116	0.062	-0.16	17.44	17.50	1.014	0.118	22.1
LTE Band 66(4)	2	Left Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.020	0.011	-0.11	17.44	17.50	1.014	0.020	22.1
LTE Band	2	Bottom	10	QPSK	20	1	0	132322	1745	1:1	1	0.217	0.110	-0.03	17.44	17.50	1.014	0.220	22.1

66(4)		Side																
LTE Band 66(4)	2	Bottom Side	10	QPSK	20	1	50	132072	1720	1:1	1	0.186	0.096	0.14	17.22	17.50	1.067	0.198	22.1
LTE Band 66(4)	2	Bottom Side	10	QPSK	20	1	50	132572	1770	1:1	1	0.203	0.104	-0.10	17.16	17.50	1.081	0.219	22.1
LTE Band 66(4)	2	Front Side	10	QPSK	20	50	50	132322	1745	1:1	1	0.041	0.023	0.03	17.24	17.50	1.062	0.044	22.1
LTE Band 66(4)	2	Back Side	10	QPSK	20	50	50	132322	1745	1:1	1	0.096	0.054	-0.08	17.24	17.50	1.062	0.102	22.1
LTE Band 66(4)	2	Left Side	10	QPSK	20	50	50	132322	1745	1:1	1	0.017	0.010	0.06	17.24	17.50	1.062	0.018	22.1
LTE Band 66(4)	2	Bottom Side	10	QPSK	20	50	50	132322	1745	1:1	1	0.184	0.095	-0.14	17.24	17.50	1.062	0.195	22.1
LTE Band 66(4)	3	Front Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.038	0.021	-0.13	17.10	17.50	1.096	0.042	22.1
LTE Band 66(4)	3	Back Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.123	0.063	-0.13	17.10	17.50	1.096	0.135	22.1
LTE Band 66(4)	3	Right Side	10	QPSK	20	1	0	132322	1745	1:1	1	0.202	0.102	-0.12	17.10	17.50	1.096	0.221	22.1
LTE Band 66(4)	3	Bottom Side	10	QPSK	20	1	0	132072	1720	1:1	1	0.188	0.089	-0.02	17.10	17.50	1.096	0.206	22.1
LTE Band 66(4)	3	Right Side	10	QPSK	20	1	0	132572	1770	1:1	1	0.219	0.108	-0.14	17.10	17.50	1.096	0.240	22.1
LTE Band 66(4)	3	Right Side	10	QPSK	20	1	0	132572	1770	1:1	1	0.188	0.090	-0.13	17.12	17.50	1.091	0.205	22.1
LTE Band 66(4)	3	Front Side	10	QPSK	20	50	0	132322	1745	1:1	1	0.030	0.017	0.18	17.10	17.50	1.096	0.033	22.1
LTE Band 66(4)	3	Back Side	10	QPSK	20	50	0	132322	1745	1:1	1	0.096	0.050	-0.01	17.10	17.50	1.096	0.105	22.1
LTE Band 66(4)	3	Right Side	10	QPSK	20	50	0	132322	1745	1:1	1	0.183	0.088	0.15	17.10	17.50	1.096	0.201	22.1
LTE Band 66(4)	3	Bottom Side	10	QPSK	20	50	0	132072	1720	1:1	1	0.172	0.085	-0.01	17.10	17.50	1.096	0.189	22.1
NR n5	1	Front Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.065	0.046	0.01	23.78	24.00	1.052	0.068	22.1
NR n5	1	Back Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.186	0.132	0.00	23.78	24.00	1.052	0.196	22.1
NR n5	1	Right Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.150	0.082	0.06	23.78	24.00	1.052	0.158	22.1
NR n5	1	Bottom Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.119	0.072	-0.10	23.78	24.00	1.052	0.125	22.1
NR n5	1	Front Side	10	QPSK	20	50	28	167300	836.5	1:1	1	0.053	0.037	0.16	23.71	24.00	1.069	0.057	22.1
NR n5	1	Back Side	10	QPSK	20	50	28	167300	836.5	1:1	1	0.158	0.110	0.08	23.71	24.00	1.069	0.169	22.1
NR n5	1	Right Side	10	QPSK	20	50	28	167300	836.5	1:1	1	0.112	0.066	0.01	23.71	24.00	1.069	0.120	22.1
NR n5	1	Bottom Side	10	QPSK	20	50	28	167300	836.5	1:1	1	0.094	0.058	0.14	23.71	24.00	1.069	0.100	22.1
NR n5	3	Front Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.101	0.068	0.05	21.30	21.50	1.047	0.106	22.1
NR n5	3	Back Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.208	0.131	0.07	21.30	21.50	1.047	0.218	22.1
NR n5	3	Right Side	10	QPSK	20	1	1	167300	836.5	1:1	1	0.282	0.155	-0.02	21.30	21.50	1.047	0.295	22.1
NR n5	3	Front Side	10	QPSK	20	50	28	167300	836.5	1:1	1	0.074	0.050	0.02	21.05	21.50	1.109	0.082	22.1
NR n5	3	Back	10	QPSK	20	50	28	167300	836.5	1:1	1	0.155	0.099	0.16	21.05	21.50	1.109	0.172	22.1

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		Side																	
NR n5	3	Right Side	10	QPSK	20	50	28	167300	836.5	1:1	1	0.179	0.105	-0.11	21.05	21.50	1.109	0.199	22.1
NR n7	9	Front Side	10	QPSK	20	1	1	507000	2535	1:1	1	0.053	0.030	0.02	16.08	16.50	1.102	0.058	22.1
NR n7	9	Back Side	10	QPSK	20	1	1	507000	2535	1:1	1	0.270	0.148	0.07	16.08	16.50	1.102	0.298	22.1
NR n7	9	Right Side	10	QPSK	20	1	1	507000	2535	1:1	1	0.086	0.045	-0.19	16.08	16.50	1.102	0.095	22.1
NR n7	9	Top Side	10	QPSK	20	1	1	507000	2535	1:1	1	0.270	0.141	0.12	16.08	16.50	1.102	0.298	22.1
NR n7	9	Back Side	10	QPSK	20	1	1	502000	2510	1:1	1	0.297	0.158	0.01	16.07	16.50	1.104	0.328	22.1
NR n7	9	Back Side	10	QPSK	20	1	1	512000	2560	1:1	1	0.289	0.161	-0.12	16.04	16.50	1.112	0.321	22.1
NR n7	9	Front Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.049	0.029	-0.13	15.88	16.50	1.153	0.056	22.1
NR n7	9	Back Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.216	0.116	0.12	15.88	16.50	1.153	0.249	22.1
NR n7	9	Right Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.092	0.048	-0.04	15.88	16.50	1.153	0.106	22.1
NR n7	9	Top Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.203	0.111	-0.17	15.88	16.50	1.153	0.234	22.1
NR n7	2	Front Side	10	QPSK	20	1	104	507000	2535	1:1	1	0.114	0.059	-0.15	17.06	17.00	0.986	0.112	22.1
NR n7	2	Back Side	10	QPSK	20	1	104	507000	2535	1:1	1	0.252	0.123	0.05	17.06	17.00	0.986	0.248	22.1
NR n7	2	Left Side	10	QPSK	20	1	104	507000	2535	1:1	1	0.034	0.020	0.19	17.06	17.00	0.986	0.034	22.1
NR n7	2	Bottom Side	10	QPSK	20	1	104	507000	2535	1:1	1	0.352	0.169	-0.01	17.06	17.00	0.986	0.347	22.1
NR n7	2	Bottom Side	10	QPSK	20	1	1	502000	2510	1:1	1	0.313	0.147	-0.02	16.83	17.00	1.040	0.326	22.1
NR n7	2	Bottom Side	10	QPSK	20	1	1	512000	2560	1:1	1	0.318	0.157	0.10	16.85	17.00	1.035	0.329	22.1
NR n7	2	Front Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.089	0.045	0.05	16.78	17.00	1.052	0.094	22.1
NR n7	2	Back Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.198	0.096	0.08	16.78	17.00	1.052	0.208	22.1
NR n7	2	Left Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.024	0.014	-0.14	16.78	17.00	1.052	0.025	22.1
NR n7	2	Bottom Side	10	QPSK	20	50	28	507000	2535	1:1	1	0.321	0.154	-0.14	16.78	17.00	1.052	0.338	22.1
NR n25(n2)	9	Front Side	10	QPSK	20	1	104	376500	1882.5	1:1	1	0.067	0.039	-0.10	19.23	19.50	1.064	0.071	22.1
NR n25(n2)	9	Back Side	10	QPSK	20	1	104	376500	1882.5	1:1	1	0.188	0.109	-0.13	19.23	19.50	1.064	0.200	22.1
NR n25(n2)	9	Right Side	10	QPSK	20	1	104	376500	1882.5	1:1	1	0.069	0.035	-0.12	19.23	19.50	1.064	0.073	22.1
NR n25(n2)	9	Top Side	10	QPSK	20	1	104	376500	1882.5	1:1	1	0.313	0.160	-0.16	19.23	19.50	1.064	0.333	22.1
NR n25(n2)	9	Front Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.052	0.030	0.05	19.05	19.50	1.109	0.058	22.1
NR n25(n2)	9	Back Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.160	0.091	-0.09	19.05	19.50	1.109	0.177	22.1
NR n25(n2)	9	Right Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.058	0.029	-0.01	19.05	19.50	1.109	0.064	22.1
NR n25(n2)	9	Top Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.237	0.124	0.08	19.05	19.50	1.109	0.263	22.1
NR n25(n2)	2	Front Side	10	QPSK	20	1	1	376500	1882.5	1:1	1	0.068	0.038	-0.16	18.40	18.50	1.023	0.070	22.1

NR n25(n2)	2	Back Side	10	QPSK	20	1	1	376500	1882.5	1:1	1	0.203	0.109	0.00	18.40	18.50	1.023	0.208	22.1
NR n25(n2)	2	Left Side	10	QPSK	20	1	1	376500	1882.5	1:1	1	0.029	0.017	0.04	18.40	18.50	1.023	0.030	22.1
NR n25(n2)	2	Bottom Side	10	QPSK	20	1	1	376500	1882.5	1:1	1	0.339	0.169	-0.07	18.40	18.50	1.023	0.347	22.1
NR n25(n2)	2	Bottom Side	10	QPSK	20	1	1	372000	1860	1:1	1	0.299	0.152	0.15	18.33	18.50	1.040	0.311	22.1
NR n25(n2)	2	Bottom Side	10	QPSK	20	1	1	381000	1905	1:1	1	0.343	0.173	-0.02	18.38	18.50	1.028	0.353	21.5
NR n25(n2)	2	Front Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.061	0.034	-0.07	18.03	18.50	1.114	0.068	22.1
NR n25(n2)	2	Back Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.173	0.092	-0.15	18.03	18.50	1.114	0.193	22.1
NR n25(n2)	2	Left Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.027	0.016	-0.03	18.03	18.50	1.114	0.030	22.1
NR n25(n2)	2	Bottom Side	10	QPSK	20	50	28	376500	1882.5	1:1	1	0.294	0.152	0.06	18.03	18.50	1.114	0.328	22.1
NR n40	9	Front Side	10	QPSK	80	1	1	470000	2350	1:1	1	0.022	0.012	0.08	16.38	16.50	1.028	0.023	22.1
NR n40	9	Back Side	10	QPSK	80	1	1	470000	2350	1:1	1	0.079	0.046	0.01	16.38	16.50	1.028	0.081	22.1
NR n40	9	Right Side	10	QPSK	80	1	1	470000	2350	1:1	1	0.037	0.020	0.05	16.38	16.50	1.028	0.038	22.1
NR n40	9	Top Side	10	QPSK	80	1	1	470000	2350	1:1	1	0.067	0.038	0.19	16.38	16.50	1.028	0.069	22.1
NR n40	9	Front Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.011	0.007	-0.08	16.21	16.50	1.069	0.012	22.1
NR n40	9	Back Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.070	0.038	-0.14	16.21	16.50	1.069	0.075	22.1
NR n40	9	Right Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.033	0.054	0.13	16.21	16.50	1.069	0.035	22.1
NR n40	9	Top Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.051	0.025	-0.03	16.21	16.50	1.069	0.055	22.1
NR n40	2	Front Side	10	QPSK	80	1	215	470000	2350	1:1	1	0.075	0.040	0.09	16.40	16.50	1.023	0.077	22.1
NR n40	2	Back Side	10	QPSK	80	1	215	470000	2350	1:1	1	0.108	0.055	-0.06	16.40	16.50	1.023	0.110	22.1
NR n40	2	Left Side	10	QPSK	80	1	215	470000	2350	1:1	1	0.016	0.010	0.16	16.40	16.50	1.023	0.016	22.1
NR n40	2	Bottom Side	10	QPSK	80	1	215	470000	2350	1:1	1	0.253	0.117	0.02	16.40	16.50	1.023	0.259	22.1
NR n40	2	Front Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.072	0.037	0.04	16.08	16.50	1.102	0.079	22.1
NR n40	2	Back Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.108	0.054	0.19	16.08	16.50	1.102	0.119	22.1
NR n40	2	Left Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.016	0.009	-0.06	16.08	16.50	1.102	0.018	22.1
NR n40	2	Bottom Side	10	QPSK	80	108	55	470000	2350	1:1	1	0.233	0.108	-0.05	16.08	16.50	1.102	0.257	22.1
NR n41(n38)	9	Front Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.022	0.013	0.02	14.16	14.50	1.081	0.024	22.1
NR n41(n38)	9	Back Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.102	0.056	-0.10	14.16	14.50	1.081	0.110	22.1
NR n41(n38)	9	Right Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.035	0.018	-0.05	14.16	14.50	1.081	0.038	22.1
NR n41(n38)	9	Top Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.095	0.047	0.06	14.16	14.50	1.081	0.103	22.1
NR n41(n38)	9	Front Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.016	0.009	0.05	14.08	14.50	1.102	0.018	22.1
NR n41(n38)	9	Back Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.071	0.039	-0.09	14.08	14.50	1.102	0.078	22.1

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NR n41(n38)	9	Right Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.024	0.012	-0.14	14.08	14.50	1.102	0.026	22.1
NR n41(n38)	9	Top Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.072	0.037	0.07	14.08	14.50	1.102	0.079	22.1
NR n41(n38)	2	Front Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.300	0.146	0.12	15.36	15.50	1.033	0.310	22.1
NR n41(n38)	2	Back Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.429	0.201	0.05	15.36	15.50	1.033	0.443	22.1
NR n41(n38)	2	Left Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.065	0.036	0.00	15.36	15.50	1.033	0.067	22.1
NR n41(n38)	2	Bottom Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.802	0.385	0.05	15.36	15.50	1.033	0.828	22.1
NR n41(n38)	2	Bottom Side with Repeat	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.801	0.384	0.05	15.36	15.50	1.033	0.827	22.1
NR n41(n38)	2	Front Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.235	0.115	0.10	15.22	15.50	1.067	0.251	22.1
NR n41(n38)	2	Back Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.351	0.171	-0.03	15.22	15.50	1.067	0.375	22.1
NR n41(n38)	2	Left Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.052	0.029	0.02	15.22	15.50	1.067	0.055	22.1
NR n41(n38)	2	Bottom Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.677	0.327	-0.01	15.22	15.50	1.067	0.722	22.1
NR n41(n38)	2	Bottom Side	10	QPSK	100	270	0	518598	2592.99	1:1	1	0.655	0.310	0.14	14.21	14.50	1.069	0.700	22.1
NR n41(n38)	3	Front Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.025	0.013	-0.02	18.15	18.50	1.084	0.027	22.1
NR n41(n38)	3	Back Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.098	0.052	0.14	18.15	18.50	1.084	0.106	22.1
NR n41(n38)	3	Right Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.093	0.047	0.11	18.15	18.50	1.084	0.101	22.1
NR n41(n38)	3	Front Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.024	0.012	-0.19	17.92	18.50	1.143	0.027	22.1
NR n41(n38)	3	Back Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.085	0.043	0.18	17.92	18.50	1.143	0.097	22.1
NR n41(n38)	3	Right Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.071	0.036	0.10	17.92	18.50	1.143	0.081	22.1
NR n41(n38)	1	Front Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.043	0.023	0.10	17.82	18.00	1.042	0.045	22.1
NR n41(n38)	1	Back Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.108	0.057	0.18	17.82	18.00	1.042	0.113	22.1
NR n41(n38)	1	Right Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.101	0.045	0.13	17.82	18.00	1.042	0.105	22.1
NR n41(n38)	1	Bottom Side	10	QPSK	100	1	1	518598	2592.99	1:1	1	0.025	0.013	-0.07	17.82	18.00	1.042	0.026	22.1
NR n41(n38)	1	Front Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.038	0.020	-0.06	17.88	18.00	1.028	0.039	22.1
NR n41(n38)	1	Back Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.077	0.041	0.14	17.88	18.00	1.028	0.079	22.1
NR n41(n38)	1	Right Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.085	0.045	-0.12	17.88	18.00	1.028	0.087	22.1
NR n41(n38)	1	Bottom Side	10	QPSK	100	135	69	518598	2592.99	1:1	1	0.028	0.014	0.04	17.88	18.00	1.028	0.029	22.1
NR n66	9	Front Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.050	0.033	-0.07	18.05	18.50	1.109	0.055	22.1
NR n66	9	Back Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.142	0.088	0.01	18.05	18.50	1.109	0.157	22.1
NR n66	9	Right	10	QPSK	20	1	1	349000	1745	1:1	1	0.046	0.025	-0.09	18.05	18.50	1.109	0.051	22.1

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		Side																	
NR n66	9	Top Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.258	0.144	-0.08	18.05	18.50	1.109	0.286	22.1
NR n66	9	Front Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.040	0.026	0.08	18.04	18.50	1.112	0.044	22.1
NR n66	9	Back Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.114	0.068	0.04	18.04	18.50	1.112	0.127	22.1
NR n66	9	Right Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.035	0.019	-0.03	18.04	18.50	1.112	0.039	22.1
NR n66	9	Top Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.178	0.097	0.13	18.04	18.50	1.112	0.198	22.1
NR n66	2	Front Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.068	0.041	0.18	19.20	19.50	1.072	0.073	22.1
NR n66	2	Back Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.172	0.097	0.04	19.20	19.50	1.072	0.184	22.1
NR n66	2	Left Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.030	0.018	0.05	19.20	19.50	1.072	0.032	22.1
NR n66	2	Bottom Side	10	QPSK	20	1	1	349000	1745	1:1	1	0.329	0.169	-0.03	19.20	19.50	1.072	0.353	21.5
NR n66	2	Bottom Side	10	QPSK	20	1	1	344000	1720	1:1	1	0.247	0.126	0.04	19.14	19.50	1.086	0.268	22.1
NR n66	2	Bottom Side	10	QPSK	20	1	1	354000	1770	1:1	1	0.322	0.165	0.01	19.14	19.50	1.086	0.350	22.1
NR n66	2	Front Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.062	0.035	-0.08	19.14	19.50	1.086	0.067	22.1
NR n66	2	Back Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.147	0.080	0.19	19.14	19.50	1.086	0.160	22.1
NR n66	2	Left Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.026	0.015	0.00	19.14	19.50	1.086	0.028	22.1
NR n66	2	Bottom Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.282	0.143	0.15	19.14	19.50	1.086	0.306	22.1
NR n66	3	Front Side	10	QPSK	20	1	53	349000	1745	1:1	1	0.038	0.021	-0.04	17.93	18.00	1.016	0.039	22.1
NR n66	3	Back Side	10	QPSK	20	1	53	349000	1745	1:1	1	0.151	0.081	0.08	17.93	18.00	1.016	0.153	22.1
NR n66	3	Right Side	10	QPSK	20	1	53	349000	1745	1:1	1	0.211	0.108	-0.19	17.93	18.00	1.016	0.214	22.1
NR n66	3	Front Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.031	0.017	0.07	17.77	18.00	1.054	0.033	22.1
NR n66	3	Back Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.127	0.063	0.16	17.77	18.00	1.054	0.134	22.1
NR n66	3	Right Side	10	QPSK	20	50	28	349000	1745	1:1	1	0.168	0.082	0.04	17.77	18.00	1.054	0.177	22.1
NR n77 (3450-3550 n78)	8	Front Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.009	0.004	0.12	19.40	19.50	1.023	0.009	22.1
NR n77 (3450-3550 n78)	8	Back Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.041	0.018	0.18	19.40	19.50	1.023	0.042	22.1
NR n77 (3450-3550 n78)	8	Right Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.007	0.002	0.01	19.40	19.50	1.023	0.007	22.1
NR n77 (3450-3550 n78)	8	Top Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.037	0.015	0.14	19.40	19.50	1.023	0.038	22.1
NR n77 (3450-3550 n78)	8	Front Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.009	0.004	-0.07	19.31	19.50	1.045	0.009	22.1
NR n77 (3450-3550 n78)	8	Back Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.039	0.017	0.18	19.31	19.50	1.045	0.041	22.1
NR n77	8	Right	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.006	0.002	0.01	19.31	19.50	1.045	0.006	22.1

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(3450-3550 n78)		Side																	
NR n77 (3450-3550 n78)	8	Top Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.035	0.015	0.19	19.31	19.50	1.045	0.037	22.1
NR n77 (3450-3550 n78)	5	Front Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.012	0.006	0.07	14.40	14.50	1.023	0.012	22.1
NR n77 (3450-3550 n78)	5	Back Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.062	0.030	0.13	14.40	14.50	1.023	0.063	22.1
NR n77 (3450-3550 n78)	5	Right Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.118	0.050	0.13	14.40	14.50	1.023	0.121	22.1
NR n77 (3450-3550 n78)	5	Top Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.018	0.009	-0.10	14.40	14.50	1.023	0.018	22.1
NR n77 (3450-3550 n78)	5	Front Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.010	0.005	-0.06	14.36	14.50	1.033	0.010	22.1
NR n77 (3450-3550 n78)	5	Back Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.060	0.027	-0.03	14.36	14.50	1.033	0.062	22.1
NR n77 (3450-3550 n78)	5	Right Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.108	0.044	-0.14	14.36	14.50	1.033	0.112	22.1
NR n77 (3450-3550 n78)	5	Top Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.017	0.008	0.15	14.36	14.50	1.033	0.018	22.1
NR n77 (3450-3550 n78)	10	Front Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.121	0.059	0.04	13.06	13.50	1.107	0.134	22.1
NR n77 (3450-3550 n78)	10	Back Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.196	0.099	-0.11	13.06	13.50	1.107	0.217	22.1
NR n77 (3450-3550 n78)	10	Left Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.056	0.028	0.14	13.06	13.50	1.107	0.062	22.1
NR n77 (3450-3550 n78)	10	Top Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.282	0.128	-0.10	13.06	13.50	1.107	0.312	22.1
NR n77 (3450-3550 n78)	10	Front Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.112	0.054	-0.08	13.01	13.50	1.119	0.125	22.1
NR n77 (3450-3550 n78)	10	Back Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.194	0.095	-0.13	13.01	13.50	1.119	0.217	22.1
NR n77 (3450-3550 n78)	10	Left Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.056	0.027	0.03	13.01	13.50	1.119	0.063	22.1
NR n77 (3450-3550 n78)	10	Top Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.315	0.142	-0.14	13.01	13.50	1.119	0.352	22.1
NR n77 (3450-3550 n78)	2	Front Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.061	0.030	-0.13	16.68	17.00	1.076	0.066	22.1
NR n77 (3450-	2	Back Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.118	0.058	-0.09	16.68	17.00	1.076	0.127	22.1

3550 n78)																			
NR n77 (3450-3550 n78)	2	Left Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.013	0.006	-0.06	16.68	17.00	1.076	0.014	22.1
NR n77 (3450-3550 n78)	2	Bottom Side	10	QPSK	100	1	1	633334	3500.01	1:1	1	0.073	0.033	-0.02	16.68	17.00	1.076	0.079	22.1
NR n77 (3450-3550 n78)	2	Front Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.049	0.025	-0.15	16.58	17.00	1.102	0.054	22.1
NR n77 (3450-3550 n78)	2	Back Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.115	0.055	0.09	16.58	17.00	1.102	0.127	22.1
NR n77 (3450-3550 n78)	2	Left Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.011	0.005	-0.09	16.58	17.00	1.102	0.012	22.1
NR n77 (3450-3550 n78)	2	Bottom Side	10	QPSK	100	135	69	633334	3500.01	1:1	1	0.057	0.028	-0.12	16.58	17.00	1.102	0.063	22.1
NR n77 (3550-3700 n78)	8	Front Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.009	0.004	-0.13	19.42	19.50	1.019	0.009	22.1
NR n77 (3550-3700 n78)	8	Back Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.039	0.017	0.00	19.42	19.50	1.019	0.040	22.1
NR n77 (3550-3700 n78)	8	Right Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.007	0.002	0.16	19.42	19.50	1.019	0.007	22.1
NR n77 (3550-3700 n78)	8	Top Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.035	0.015	-0.06	19.42	19.50	1.019	0.036	22.1
NR n77 (3550-3700 n78)	8	Front Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.008	0.004	0.08	19.30	19.50	1.047	0.008	22.1
NR n77 (3550-3700 n78)	8	Back Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.038	0.016	-0.12	19.30	19.50	1.047	0.040	22.1
NR n77 (3550-3700 n78)	8	Right Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.006	0.002	-0.15	19.30	19.50	1.047	0.006	22.1
NR n77 (3550-3700 n78)	8	Top Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.033	0.014	-0.09	19.30	19.50	1.047	0.035	22.1
NR n77 (3550-3700 n78)	5	Front Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.011	0.006	0.11	14.38	14.50	1.028	0.011	22.1
NR n77 (3550-3700 n78)	5	Back Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.060	0.028	0.03	14.38	14.50	1.028	0.062	22.1
NR n77 (3550-3700 n78)	5	Right Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.115	0.047	0.13	14.38	14.50	1.028	0.118	22.1
NR n77 (3550-3700 n78)	5	Top Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.017	0.009	-0.08	14.38	14.50	1.028	0.017	22.1
NR n77 (3550-3700 n78)	5	Front Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.010	0.005	0.05	14.46	14.50	1.009	0.010	22.1

NR n77 (3550-3700 n78)	5	Back Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.058	0.026	0.13	14.46	14.50	1.009	0.059	22.1
NR n77 (3550-3700 n78)	5	Right Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.101	0.042	0.10	14.46	14.50	1.009	0.102	22.1
NR n77 (3550-3700 n78)	5	Top Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.017	0.008	0.11	14.46	14.50	1.009	0.017	22.1
NR n77 (3550-3700 n78)	10	Front Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.117	0.056	0.06	13.05	13.50	1.109	0.130	22.1
NR n77 (3550-3700 n78)	10	Back Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.187	0.096	0.17	13.05	13.50	1.109	0.207	22.1
NR n77 (3550-3700 n78)	10	Left Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.053	0.027	-0.06	13.05	13.50	1.109	0.059	22.1
NR n77 (3550-3700 n78)	10	Top Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.274	0.123	0.08	13.05	13.50	1.109	0.304	22.1
NR n77 (3550-3700 n78)	10	Front Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.106	0.050	0.03	13.00	13.50	1.122	0.119	22.1
NR n77 (3550-3700 n78)	10	Back Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.188	0.092	0.18	13.00	13.50	1.122	0.211	22.1
NR n77 (3550-3700 n78)	10	Left Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.054	0.025	0.07	13.00	13.50	1.122	0.061	22.1
NR n77 (3550-3700 n78)	10	Top Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.294	0.135	0.08	13.00	13.50	1.122	0.330	22.1
NR n77 (3550-3700 n78)	2	Front Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.059	0.029	0.01	16.68	17.00	1.076	0.063	22.1
NR n77 (3550-3700 n78)	2	Back Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.110	0.056	0.10	16.68	17.00	1.076	0.118	22.1
NR n77 (3550-3700 n78)	2	Left Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.012	0.006	0.03	16.68	17.00	1.076	0.013	22.1
NR n77 (3550-3700 n78)	2	Bottom Side	10	QPSK	100	1	1	641667	3625.01	1:1	1	0.071	0.031	-0.17	16.68	17.00	1.076	0.076	22.1
NR n77 (3550-3700 n78)	2	Front Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.046	0.024	0.05	16.58	17.00	1.102	0.051	22.1
NR n77 (3550-3700 n78)	2	Back Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.112	0.051	-0.07	16.58	17.00	1.102	0.123	22.1
NR n77 (3550-3700 n78)	2	Left Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.010	0.005	0.09	16.58	17.00	1.102	0.011	22.1
NR n77 (3550-3700 n78)	2	Bottom Side	10	QPSK	100	135	69	641667	3625.01	1:1	1	0.053	0.027	-0.05	16.58	17.00	1.102	0.058	22.1
NR n77	8	Front	10	QPSK	100	1	1	657200	3858	1:1	1	0.008	0.004	0.00	19.18	19.50	1.076	0.009	22.1

(3700-3980 n78)		Side																	
NR n77 (3700-3980 n78)	8	Back Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.036	0.018	0.13	19.18	19.50	1.076	0.039	22.1
NR n77 (3700-3980 n78)	8	Right Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.006	0.002	0.00	19.18	19.50	1.076	0.006	22.1
NR n77 (3700-3980 n78)	8	Top Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.035	0.015	0.16	19.18	19.50	1.076	0.038	22.1
NR n77 (3700-3980 n78)	8	Front Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.009	0.005	0.03	19.31	19.50	1.045	0.009	22.1
NR n77 (3700-3980 n78)	8	Back Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.039	0.020	-0.03	19.31	19.50	1.045	0.041	22.1
NR n77 (3700-3980 n78)	8	Right Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.006	0.002	0.14	19.31	19.50	1.045	0.006	22.1
NR n77 (3700-3980 n78)	8	Top Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.035	0.015	-0.13	19.31	19.50	1.045	0.037	22.1
NR n77 (3700-3980 n78)	5	Front Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.012	0.006	0.18	14.43	14.50	1.016	0.012	22.1
NR n77 (3700-3980 n78)	5	Back Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.063	0.026	0.04	14.43	14.50	1.016	0.064	22.1
NR n77 (3700-3980 n78)	5	Right Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.120	0.042	0.04	14.43	14.50	1.016	0.122	22.1
NR n77 (3700-3980 n78)	5	Top Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.018	0.007	-0.03	14.43	14.50	1.016	0.018	22.1
NR n77 (3700-3980 n78)	5	Right Side	10	QPSK	100	1	1	654800	3822	1:1	1	0.078	0.027	-0.08	14.42	14.50	1.019	0.079	22.1
NR n77 (3700-3980 n78)	5	Front Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.009	0.004	-0.01	14.37	14.50	1.030	0.009	22.1
NR n77 (3700-3980 n78)	5	Back Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.052	0.020	-0.07	14.37	14.50	1.030	0.054	22.1
NR n77 (3700-3980 n78)	5	Right Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.094	0.032	0.10	14.37	14.50	1.030	0.097	22.1
NR n77 (3700-3980 n78)	5	Top Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.015	0.006	0.01	14.37	14.50	1.030	0.015	22.1
NR n77 (3700-3980 n78)	5	Right Side	10	QPSK	100	135	69	654800	3822	1:1	1	0.077	0.027	0.15	14.22	14.50	1.067	0.082	22.1
NR n77 (3700-3980 n78)	5	Right Side	10	QPSK	100	270	0	657200	3858	1:1	1	0.102	0.036	0.13	13.48	13.50	1.005	0.103	22.1
NR n77 (3700-	10	Front Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.138	0.058	-0.04	13.10	13.50	1.096	0.151	22.1

3980 n78)																			
NR n77 (3700-3980 n78)	10	Back Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.224	0.098	-0.12	13.10	13.50	1.096	0.246	22.1
NR n77 (3700-3980 n78)	10	Left Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.064	0.028	0.03	13.10	13.50	1.096	0.070	22.1
NR n77 (3700-3980 n78)	10	Top Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.320	0.128	-0.03	13.10	13.50	1.096	0.351	22.1
NR n77 (3700-3980 n78)	10	Top Side	10	QPSK	100	1	1	654800	3822	1:1	1	0.302	0.119	0.14	13.05	13.50	1.109	0.335	22.1
NR n77 (3700-3980 n78)	10	Front Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.122	0.052	-0.18	13.02	13.50	1.117	0.136	22.1
NR n77 (3700-3980 n78)	10	Back Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.211	0.092	0.10	13.02	13.50	1.117	0.236	22.1
NR n77 (3700-3980 n78)	10	Left Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.061	0.026	-0.02	13.02	13.50	1.117	0.068	22.1
NR n77 (3700-3980 n78)	10	Top Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.341	0.136	-0.04	13.02	13.50	1.117	0.381	21.5
NR n77 (3700-3980 n78)	10	Top Side	10	QPSK	100	135	69	654800	3822	1:1	1	0.326	0.129	-0.18	13.01	13.50	1.119	0.365	22.1
NR n77 (3700-3980 n78)	2	Front Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.040	0.016	0.03	16.56	17.00	1.107	0.044	22.1
NR n77 (3700-3980 n78)	2	Back Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.077	0.031	-0.03	16.56	17.00	1.107	0.085	22.1
NR n77 (3700-3980 n78)	2	Left Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.009	0.003	0.06	16.56	17.00	1.107	0.010	22.1
NR n77 (3700-3980 n78)	2	Bottom Side	10	QPSK	100	1	1	657200	3858	1:1	1	0.047	0.018	-0.02	16.56	17.00	1.107	0.052	22.1
NR n77 (3700-3980 n78)	2	Front Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.040	0.017	-0.04	16.72	17.00	1.067	0.043	22.1
NR n77 (3700-3980 n78)	2	Back Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.096	0.039	0.06	16.72	17.00	1.067	0.102	22.1
NR n77 (3700-3980 n78)	2	Left Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.009	0.004	-0.18	16.72	17.00	1.067	0.010	22.1
NR n77 (3700-3980 n78)	2	Bottom Side	10	QPSK	100	135	69	657200	3858	1:1	1	0.050	0.021	-0.13	16.72	17.00	1.067	0.053	22.1
WiFi 2.4G	4	Front Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.018	0.009	0.00	14.72	15.00	1.067	0.019	22.1
WiFi 2.4G	4	Back Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.084	0.042	0.03	14.72	15.00	1.067	0.091	22.1
WiFi 2.4G	4	Right Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.093	0.041	-0.01	14.72	15.00	1.067	0.101	22.1

WiFi 2.4G	8	Front Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.026	0.014	0.07	14.66	15.00	1.081	0.028	22.1
WiFi 2.4G	8	Back Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.092	0.048	-0.14	14.66	15.00	1.081	0.101	22.1
WiFi 2.4G	8	Left Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.031	0.016	0.05	14.66	15.00	1.081	0.034	22.1
WiFi 2.4G	8	Top Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.125	0.062	-0.01	14.66	15.00	1.081	0.137	22.1
WiFi 2.4G	MIMO	Front Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.031	0.016	0.02	17.70	18.00	1.071	0.034	22.1
WiFi 2.4G	MIMO	Back Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.100	0.051	-0.14	17.70	18.00	1.071	0.109	22.1
WiFi 2.4G	MIMO	Left Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.026	0.013	-0.15	17.70	18.00	1.071	0.028	22.1
WiFi 2.4G	MIMO	Right Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.139	0.061	0.07	17.70	18.00	1.071	0.151	22.1
WiFi 2.4G	MIMO	Top Side	10	802.11b	20	-	-	6	2437	98.65%	1.014	0.120	0.060	-0.10	17.70	18.00	1.071	0.130	22.1
WiFi 2.4G	MIMO	Right Side	10	802.11b	20	-	-	1	2412	98.65%	1.014	0.115	0.058	-0.09	17.61	18.00	1.095	0.128	22.1
WiFi 2.4G	MIMO	Right Side	10	802.11b	20	-	-	11	2462	98.65%	1.014	0.121	0.061	-0.06	17.51	18.00	1.120	0.137	22.1
WiFi 5G U-NII-1	5	Front Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.011	0.004	0.15	9.19	9.50	1.074	0.013	22.1
WiFi 5G U-NII-1	5	Back Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.071	0.021	0.19	9.19	9.50	1.074	0.084	22.1
WiFi 5G U-NII-1	5	Right Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.123	0.029	0.11	9.19	9.50	1.074	0.146	22.1
WiFi 5G U-NII-1	5	Top Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.020	0.006	-0.05	9.19	9.50	1.074	0.024	22.1
WiFi 5G U-NII-2A	5	Front Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.009	0.003	0.00	9.05	10.00	1.245	0.012	22.1
WiFi 5G U-NII-2A	5	Back Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.058	0.017	0.09	9.05	10.00	1.245	0.076	22.1
WiFi 5G U-NII-2A	5	Right Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.102	0.024	-0.19	9.05	10.00	1.245	0.134	22.1
WiFi 5G U-NII-2A	5	Top Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.017	0.005	-0.19	9.05	10.00	1.245	0.022	22.1
WiFi 5G U-NII-2C	5	Front Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.013	0.004	0.15	9.50	10.00	1.122	0.016	22.1
WiFi 5G U-NII-2C	5	Back Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.085	0.024	-0.03	9.50	10.00	1.122	0.106	22.1
WiFi 5G U-NII-2C	5	Right Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.109	0.023	0.11	9.50	10.00	1.122	0.136	22.1
WiFi 5G U-NII-2C	5	Top Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.024	0.007	-0.11	9.50	10.00	1.122	0.030	22.1
WiFi 5G U-NII-3	5	Front Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.008	0.002	0.08	8.61	9.50	1.227	0.011	22.1
WiFi 5G U-NII-3	5	Back Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.053	0.014	-0.04	8.61	9.50	1.227	0.072	22.1
WiFi 5G U-NII-3	5	Right Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.091	0.019	0.02	8.61	9.50	1.227	0.124	22.1
WiFi 5G U-NII-3	5	Top Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.015	0.004	0.07	8.61	9.50	1.227	0.020	22.1
WiFi 5G U-NII-1	10	Front Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.009	0.002	-0.12	9.13	9.50	1.089	0.011	22.1
WiFi 5G U-NII-1	10	Back Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.023	0.006	-0.18	9.13	9.50	1.089	0.028	22.1
WiFi 5G U-NII-1	10	Right Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.004	0.001	0.02	9.13	9.50	1.089	0.005	22.1
WiFi 5G U-NII-1	10	Top Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.014	0.005	0.02	9.13	9.50	1.089	0.017	22.1

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WiFi 5G U-NII-2A	10	Front Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.008	0.003	0.19	8.55	9.50	1.245	0.010	22.1
WiFi 5G U-NII-2A	10	Back Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.032	0.012	0.03	8.55	9.50	1.245	0.042	22.1
WiFi 5G U-NII-2A	10	Right Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.009	0.003	-0.08	8.55	9.50	1.245	0.012	22.1
WiFi 5G U-NII-2A	10	Top Side	10	802.11n	40	-	-	54	5270	94.85%	1.054	0.012	0.005	0.05	8.55	9.50	1.245	0.016	22.1
WiFi 5G U-NII-2C	10	Front Side	10	802.11ac	80	-	-	122	5610	90.25%	1.108	0.008	0.003	0.18	9.14	9.50	1.086	0.010	22.1
WiFi 5G U-NII-2C	10	Back Side	10	802.11ac	80	-	-	122	5610	90.25%	1.108	0.020	0.007	0.03	9.14	9.50	1.086	0.024	22.1
WiFi 5G U-NII-2C	10	Right Side	10	802.11ac	80	-	-	122	5610	90.25%	1.108	0.006	0.002	-0.01	9.14	9.50	1.086	0.007	22.1
WiFi 5G U-NII-2C	10	Top Side	10	802.11ac	80	-	-	122	5610	90.25%	1.108	0.011	0.004	-0.05	9.14	9.50	1.086	0.013	22.1
WiFi 5G U-NII-3	10	Front Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.007	0.002	-0.08	9.58	10.00	1.102	0.009	22.1
WiFi 5G U-NII-3	10	Back Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.025	0.007	-0.16	9.58	10.00	1.102	0.031	22.1
WiFi 5G U-NII-3	10	Right Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.007	0.002	0.04	9.58	10.00	1.102	0.009	22.1
WiFi 5G U-NII-3	10	Top Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.019	0.006	-0.17	9.58	10.00	1.102	0.023	22.1
WiFi 5G U-NII-1	MIMO	Front Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.009	0.003	0.16	12.17	12.50	1.079	0.011	22.1
WiFi 5G U-NII-1	MIMO	Back Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.052	0.018	-0.05	12.17	12.50	1.079	0.062	22.1
WiFi 5G U-NII-1	MIMO	Right Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.085	0.025	-0.15	12.17	12.50	1.079	0.102	22.1
WiFi 5G U-NII-1	MIMO	Top Side	10	802.11ac	80	-	-	42	5210	90.25%	1.108	0.028	0.010	-0.12	12.17	12.50	1.079	0.033	22.1
WiFi 5G U-NII-2A	MIMO	Front Side	10	802.11a	20	-	-	56	5280	97.54%	1.025	0.008	0.003	0.16	12.04	12.50	1.112	0.009	22.1
WiFi 5G U-NII-2A	MIMO	Back Side	10	802.11a	20	-	-	56	5280	97.54%	1.025	0.047	0.018	0.10	12.04	12.50	1.112	0.054	22.1
WiFi 5G U-NII-2A	MIMO	Right Side	10	802.11a	20	-	-	56	5280	97.54%	1.025	0.077	0.025	-0.14	12.04	12.50	1.112	0.088	22.1
WiFi 5G U-NII-2A	MIMO	Top Side	10	802.11a	20	-	-	56	5280	97.54%	1.025	0.026	0.010	0.15	12.04	12.50	1.112	0.030	22.1
WiFi 5G U-NII-2C	MIMO	Front Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.009	0.004	0.15	12.24	12.50	1.061	0.011	22.1
WiFi 5G U-NII-2C	MIMO	Back Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.052	0.022	0.02	12.24	12.50	1.061	0.061	22.1
WiFi 5G U-NII-2C	MIMO	Right Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.131	0.045	-0.04	12.24	12.50	1.061	0.154	21.5
WiFi 5G U-NII-2C	MIMO	Top Side	10	802.11ac	80	-	-	138	5690	90.25%	1.108	0.028	0.012	-0.07	12.24	12.50	1.061	0.033	22.1
WiFi 5G U-NII-3	MIMO	Front Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.008	0.004	0.14	12.13	12.50	1.089	0.010	22.1
WiFi 5G U-NII-3	MIMO	Back Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.047	0.021	0.07	12.13	12.50	1.089	0.057	22.1
WiFi 5G U-NII-3	MIMO	Right Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.077	0.029	0.13	12.13	12.50	1.089	0.093	22.1
WiFi 5G U-NII-3	MIMO	Top Side	10	802.11ac	80	-	-	155	5775	90.25%	1.108	0.026	0.011	-0.09	12.13	12.50	1.089	0.031	22.1
Bluetooth	4	Front Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.016	0.007	-0.19	13.42	13.50	1.019	0.021	22.3

Bluetooth	4	Back Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.097	0.054	-0.19	13.42	13.50	1.019	0.128	22.3
Bluetooth	4	Right Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.127	0.063	0.05	13.42	13.50	1.019	0.168	22.3
Bluetooth	4	Right Side	10	DH5	-	-	-	0	2402	77.22%	1.295	0.115	0.057	-0.14	13.13	13.50	1.089	0.162	22.3
Bluetooth	4	Right Side	10	DH5	-	-	-	78	2480	77.22%	1.295	0.108	0.052	-0.09	12.29	13.50	1.321	0.185	22.3
Bluetooth	8	Front Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.021	0.014	0.15	12.70	13.00	1.072	0.029	22.3
Bluetooth	8	Back Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.070	0.046	0.09	12.70	13.00	1.072	0.097	22.3
Bluetooth	8	Left Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.028	0.018	0.01	12.70	13.00	1.072	0.039	22.3
Bluetooth	8	Top Side	10	DH5	-	-	-	39	2441	77.22%	1.295	0.069	0.041	-0.17	12.70	13.00	1.072	0.096	22.3

LTE Band 41						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Bottom Side	40185	0.816	0.806	1.012	N/A	N/A

NR n41(n38)						
Test Position	**Test ch**	**Measured SAR (W/kg)**	**1st Repeated**	**Ratio**	**2nd Repeated**	**3rd Repeated**
Bottom Side	518598	0.802	0.801	1.001	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.

8.3.3 SAR Result of Product specific with Fold

Test band	Antenna Number	Test position	Distance (mm)	Modulation	Bandwidth(MHz)	RB size	RB offset	Test channel	Frequency	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1g	SAR (W/kg) 10g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10g (W/kg)	Liquid Temp. (℃)
WiFi 5G U-NII-2A	5	Front Side	0	802.11n	40	-	-	54	5270	94.85%	1.054	0.071	0.022	0.02	9.05	10.00	1.245	0.029	22.1
WiFi 5G U-NII-2A	5	Back Side	0	802.11n	40	-	-	54	5270	94.85%	1.054	1.000	0.330	0.09	9.05	10.00	1.245	0.433	22.1
WiFi 5G U-NII-2A	5	Right Side	0	802.11n	40	-	-	54	5270	94.85%	1.054	1.350	0.331	0.02	9.05	10.00	1.245	0.434	21.3
WiFi 5G U-NII-2A	5	Top Side	0	802.11n	40	-	-	54	5270	94.85%	1.054	0.294	0.091	-0.03	9.05	10.00	1.245	0.119	22.1
WiFi 5G U-NII-2C	5	Front Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	0.085	0.023	-0.04	9.50	10.00	1.122	0.029	22.1
WiFi 5G U-NII-2C	5	Back Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	0.905	0.235	0.08	9.50	10.00	1.122	0.292	22.1
WiFi 5G U-NII-2C	5	Right Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	1.040	0.293	-0.04	9.50	10.00	1.122	0.364	22.1
WiFi 5G U-NII-2C	5	Top Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	0.205	0.065	-0.12	9.50	10.00	1.122	0.081	22.1
WiFi 5G U-NII-2A	10	Front Side	0	802.11ac	80	-	-	54	5270	90.25%	1.108	0.104	0.031	-0.01	8.55	9.50	1.245	0.043	22.1
WiFi 5G U-NII-2A	10	Back Side	0	802.11ac	80	-	-	54	5270	90.25%	1.108	0.401	0.134	-0.02	8.55	9.50	1.245	0.185	22.1
WiFi 5G U-NII-2A	10	Right Side	0	802.11ac	80	-	-	54	5270	90.25%	1.108	0.037	0.009	0.15	8.55	9.50	1.245	0.012	22.1
WiFi 5G U-NII-2A	10	Top Side	0	802.11ac	80	-	-	54	5270	90.25%	1.108	0.685	0.175	0.08	8.55	9.50	1.245	0.241	22.1
WiFi 5G U-NII-2C	10	Front Side	0	802.11ac	80	-	-	122	5610	90.25%	1.108	0.053	0.012	0.17	9.14	9.50	1.086	0.014	22.1
WiFi	10	Back Side	0	802.11ac	80	-	-	122	5610	90.25%	1.108	0.471	0.143	0.05	9.14	9.50	1.086	0.172	22.1

5G U-NII-2C																			
WiFi 5G U-NII-2C	10	Right Side	0	802.11ac	80	-	-	122	5610	90.25%	1.108	0.072	0.023	-0.15	9.14	9.50	1.086	0.028	22.1
WiFi 5G U-NII-2C	10	Top Side	0	802.11ac	80	-	-	122	5610	90.25%	1.108	0.665	0.191	0.16	9.14	9.50	1.086	0.230	22.1
WiFi 5G U-NII-2A	MIMO	Front Side	0	802.11a	20	-	-	56	5280	97.54%	1.025	0.097	0.035	-0.14	12.04	12.50	1.112	0.040	22.1
WiFi 5G U-NII-2A	MIMO	Back Side	0	802.11a	20	-	-	56	5280	97.54%	1.025	0.992	0.315	0.01	12.04	12.50	1.112	0.359	22.1
WiFi 5G U-NII-2A	MIMO	Right Side	0	802.11a	20	-	-	56	5280	97.54%	1.025	1.370	0.338	-0.11	12.04	12.50	1.112	0.385	22.1
WiFi 5G U-NII-2A	MIMO	Top Side	0	802.11a	20	-	-	56	5280	97.54%	1.025	0.512	0.173	-0.19	12.04	12.50	1.112	0.197	22.1
WiFi 5G U-NII-2C	MIMO	Front Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	0.105	0.032	-0.04	12.24	12.50	1.061	0.038	22.1
WiFi 5G U-NII-2C	MIMO	Back Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	0.922	0.289	-0.18	12.24	12.50	1.061	0.340	22.1
WiFi 5G U-NII-2C	MIMO	Right Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	1.380	0.338	-0.06	12.24	12.50	1.061	0.397	22.1
WiFi 5G U-NII-2C	MIMO	Top Side	0	802.11ac	80	-	-	138	5690	90.25%	1.108	0.948	0.295	0.00	12.24	12.50	1.061	0.347	22.1

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8.3.4 SAR Result of Body worn&Hotspot with Unfold

Test band	Antenna Number	Test position	Distance (mm)	Modulation	Bandwidth(MHz)	RB size	RB offset	Test channel	Frequency	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1g	SAR (W/kg) 10g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1g (W/kg)	Liquid Temp. (℃)
GSM 850	1	Front Side	5	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.579	0.322	0.00	29.26	29.50	1.057	0.612	21.8
GSM 850	1	Back Side	5	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.434	0.248	0.09	29.26	29.50	1.057	0.459	21.8
GSM 850	1	Left Side	5	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.045	0.029	0.16	29.26	29.50	1.057	0.048	21.8
GSM 850	1	Right Side	5	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.360	0.171	0.01	29.26	29.50	1.057	0.381	21.8
GSM 850	1	Top Side	5	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.023	0.012	-0.12	29.26	29.50	1.057	0.024	21.8
GSM 850	1	Bottom Side	5	GPRS 2TS	-	-	-	190	836.6	1:4.15	1	0.406	0.192	0.07	29.26	29.50	1.057	0.429	21.8
GSM 850	1	Front Side	5	GPRS 2TS	-	-	-	128	824.2	1:4.15	1	0.489	0.278	-0.11	29.14	29.50	1.086	0.531	21.8
GSM 850	1	Front Side	5	GPRS 2TS	-	-	-	251	848.8	1:4.15	1	0.522	0.295	-0.15	29.14	29.50	1.086	0.567	21.8
GSM 850	3	Front Side	5	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.209	0.099	0.10	26.15	26.50	1.084	0.227	21.8
GSM 850	3	Back Side	5	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.174	0.087	0.19	26.15	26.50	1.084	0.189	21.8
GSM 850	3	Left Side	5	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.022	0.009	-0.17	26.15	26.50	1.084	0.024	21.8
GSM 850	3	Right Side	5	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.201	0.080	-0.17	26.15	26.50	1.084	0.218	21.8
GSM 850	3	Top Side	5	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.024	0.012	-0.13	26.15	26.50	1.084	0.026	21.8
GSM 850	3	Bottom Side	5	GPRS 4TS	-	-	-	190	836.6	1:2.075	1	0.002	0.001	-0.12	26.15	26.50	1.084	0.002	21.8
GSM 1900	9	Front Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.389	0.205	0.12	28.86	29.00	1.033	0.402	21.8
GSM 1900	9	Back Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.485	0.259	0.01	28.86	29.00	1.033	0.501	21.2
GSM 1900	9	Left Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.028	0.014	0.04	28.86	29.00	1.033	0.029	21.2
GSM 1900	9	Right Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.256	0.121	0.15	28.86	29.00	1.033	0.264	21.2
GSM 1900	9	Top Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.747	0.297	-0.16	28.86	29.00	1.033	0.772	21.2
GSM 1900	9	Bottom Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.071	0.034	-0.13	28.86	29.00	1.033	0.073	21.2
GSM 1900	9	Top Side	5	GPRS 1TS	-	-	-	512	1850.2	1:8.3	1	0.643	0.300	-0.16	28.58	29.00	1.102	0.709	21.2
GSM 1900	9	Top Side	5	GPRS 1TS	-	-	-	810	1909.8	1:8.3	1	0.680	0.299	-0.09	28.71	29.00	1.069	0.727	21.2
GSM 1900	2	Front Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.300	0.140	0.14	24.81	25.00	1.045	0.314	21.2
GSM 1900	2	Back Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.319	0.154	0.15	24.81	25.00	1.045	0.333	21.2
GSM 1900	2	Left Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.019	0.011	0.05	24.81	25.00	1.045	0.020	21.2
GSM 1900	2	Right Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.040	0.020	0.06	24.81	25.00	1.045	0.042	21.2
GSM 1900	2	Top Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.010	0.005	0.06	24.81	25.00	1.045	0.010	21.2
GSM 1900	2	Bottom Side	5	GPRS 1TS	-	-	-	661	1880	1:8.3	1	0.621	0.285	0.18	24.81	25.00	1.045	0.649	21.2

GSM 1900	2	Bottom Side	5	GPRS 1TS	-	-	-	512	1850.2	1:8.3	1	0.749	0.323	-0.04	24.80	25.00	1.047	0.784	21.3
GSM 1900	2	Bottom Side	5	GPRS 1TS	-	-	-	810	1909.8	1:8.3	1	0.630	0.286	0.08	24.77	25.00	1.054	0.664	21.2
WCDMA Band II	9	Front Side	5	RMC	-	-	-	9400	1880	1:1	1	0.302	0.133	-0.14	17.86	18.50	1.159	0.350	21.5
WCDMA Band II	9	Back Side	5	RMC	-	-	-	9400	1880	1:1	1	0.343	0.162	0.01	17.86	18.50	1.159	0.398	21.5
WCDMA Band II	9	Left Side	5	RMC	-	-	-	9400	1880	1:1	1	0.016	0.008	0.10	17.86	18.50	1.159	0.019	21.5
WCDMA Band II	9	Right Side	5	RMC	-	-	-	9400	1880	1:1	1	0.221	0.084	-0.02	17.86	18.50	1.159	0.256	21.5
WCDMA Band II	9	Top Side	5	RMC	-	-	-	9400	1880	1:1	1	0.554	0.230	0.18	17.86	18.50	1.159	0.642	21.5
WCDMA Band II	9	Bottom Side	5	RMC	-	-	-	9400	1880	1:1	1	0.050	0.003	0.10	17.86	18.50	1.159	0.058	21.5
WCDMA Band II	9	Top Side	5	RMC	-	-	-	9262	1852.4	1:1	1	0.516	0.250	0.10	17.82	18.50	1.169	0.603	21.5
WCDMA Band II	9	Top Side	5	RMC	-	-	-	9538	1907.6	1:1	1	0.605	0.293	-0.10	17.85	18.50	1.161	0.702	21.3
WCDMA Band II	2	Front Side	5	RMC	-	-	-	9400	1880	1:1	1	0.269	0.131	0.07	17.25	17.50	1.059	0.285	21.5
WCDMA Band II	2	Back Side	5	RMC	-	-	-	9400	1880	1:1	1	0.306	0.142	0.08	17.25	17.50	1.059	0.324	21.5
WCDMA Band II	2	Left Side	5	RMC	-	-	-	9400	1880	1:1	1	0.012	0.007	-0.06	17.25	17.50	1.059	0.013	21.5
WCDMA Band II	2	Right Side	5	RMC	-	-	-	9400	1880	1:1	1	0.070	0.018	-0.10	17.25	17.50	1.059	0.074	21.5
WCDMA Band II	2	Top Side	5	RMC	-	-	-	9400	1880	1:1	1	0.018	0.005	0.15	17.25	17.50	1.059	0.019	21.5
WCDMA Band II	2	Bottom Side	5	RMC	-	-	-	9400	1880	1:1	1	0.583	0.261	-0.10	17.25	17.50	1.059	0.617	21.5
WCDMA Band II	2	Bottom Side	5	RMC	-	-	-	9262	1852.4	1:1	1	0.568	0.254	-0.07	17.15	17.50	1.084	0.616	21.5
WCDMA Band II	2	Bottom Side	5	RMC	-	-	-	9538	1907.6	1:1	1	0.623	0.279	-0.10	17.05	17.50	1.109	0.691	21.5
WCDMA Band IV	9	Front Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.469	0.266	0.17	17.26	17.50	1.057	0.496	21.5
WCDMA Band IV	9	Back Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.566	0.320	-0.19	17.26	17.50	1.057	0.598	21.5
WCDMA Band IV	9	Left Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.025	0.016	-0.13	17.26	17.50	1.057	0.026	21.5
WCDMA Band IV	9	Right Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.356	0.162	0.09	17.26	17.50	1.057	0.376	21.5
WCDMA Band IV	9	Top Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.810	0.399	-0.19	17.26	17.50	1.057	0.856	21.5
WCDMA Band IV	9	Bottom Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.077	0.038	-0.16	17.26	17.50	1.057	0.081	21.5
WCDMA Band IV	9	Top Side	5	RMC	-	-	-	1312	1712.4	1:1	1	0.784	0.398	0.14	17.21	17.50	1.069	0.838	21.5
WCDMA Band IV	9	Top Side	5	RMC	-	-	-	1513	1752.6	1:1	1	0.826	0.415	0.02	17.13	17.50	1.089	0.900	21.3
WCDMA Band IV	9	Top Side with Repeat	5	RMC	-	-	-	1513	1752.6	1:1	1	0.822	0.415	0.03	17.13	17.50	1.089	0.895	21.3
WCDMA Band IV	2	Front Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.294	0.143	0.01	17.22	17.50	1.067	0.314	21.5
WCDMA	2	Back	5	RMC	-	-	-	1412	1732.4	1:1	1	0.335	0.157	0.00	17.22	17.50	1.067	0.357	21.5

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Band IV		Side																	
WCDMA Band IV	2	Left Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.013	0.008	-0.17	17.22	17.50	1.067	0.014	21.5
WCDMA Band IV	2	Right Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.074	0.019	-0.08	17.22	17.50	1.067	0.079	21.5
WCDMA Band IV	2	Top Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.020	0.005	-0.17	17.22	17.50	1.067	0.021	21.5
WCDMA Band IV	2	Bottom Side	5	RMC	-	-	-	1412	1732.4	1:1	1	0.598	0.268	-0.06	17.22	17.50	1.067	0.638	21.5
WCDMA Band IV	2	Bottom Side	5	RMC	-	-	-	1312	1712.4	1:1	1	0.595	0.267	0.12	17.15	17.50	1.084	0.645	21.5
WCDMA Band IV	2	Bottom Side	5	RMC	-	-	-	1513	1752.6	1:1	1	0.623	0.279	0.05	17.15	17.50	1.084	0.675	21.5
WCDMA Band V	1	Front Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.754	0.400	-0.07	23.61	24.00	1.094	0.825	22.1
WCDMA Band V	1	Back Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.589	0.350	-0.15	23.61	24.00	1.094	0.644	22.1
WCDMA Band V	1	Left Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.059	0.038	-0.14	23.61	24.00	1.094	0.065	22.1
WCDMA Band V	1	Right Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.477	0.230	-0.06	23.61	24.00	1.094	0.522	22.1
WCDMA Band V	1	Top Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.023	0.009	-0.05	23.61	24.00	1.094	0.025	22.1
WCDMA Band V	1	Bottom Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.500	0.247	-0.15	23.61	24.00	1.094	0.547	22.1
WCDMA Band V	1	Front Side	5	RMC	-	-	-	4132	826.4	1:1	1	0.740	0.417	-0.04	23.58	24.00	1.102	0.815	22.1
WCDMA Band V	1	Front Side	5	RMC	-	-	-	4233	846.6	1:1	1	0.733	0.411	-0.10	23.51	24.00	1.119	0.820	22.1
WCDMA Band V	3	Front Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.874	0.433	-0.08	20.72	21.00	1.067	0.933	22.1
WCDMA Band V	3	Back Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.702	0.381	0.04	20.72	21.00	1.067	0.749	22.1
WCDMA Band V	3	Left Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.081	0.036	-0.02	20.72	21.00	1.067	0.086	22.1
WCDMA Band V	3	Right Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.730	0.322	-0.19	20.72	21.00	1.067	0.779	22.1
WCDMA Band V	3	Top Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.054	0.031	-0.16	20.72	21.00	1.067	0.058	22.1
WCDMA Band V	3	Bottom Side	5	RMC	-	-	-	4182	836.4	1:1	1	0.027	0.018	-0.03	20.72	21.00	1.067	0.029	22.1
WCDMA Band V	3	Front Side	5	RMC	-	-	-	4132	826.4	1:1	1	0.792	0.392	0.01	20.71	21.00	1.069	0.847	22.1
WCDMA Band V	3	Front Side	5	RMC	-	-	-	4233	846.6	1:1	1	0.810	0.398	-0.04	20.63	21.00	1.089	0.882	22.1
WCDMA Band V	3	Front Side with Repeat	5	RMC	-	-	-	4182	836.4	1:1	1	0.848	0.428	0.03	20.72	21.00	1.067	0.905	22.1
LTE Band 5	1	Front Side	5	QPSK	10	1	49	20525	836.5	1:1	1	0.492	0.284	-0.12	24.39	24.50	1.026	0.505	22.1
LTE Band 5	1	Back Side	5	QPSK	10	1	49	20525	836.5	1:1	1	0.488	0.286	0.01	24.39	24.50	1.026	0.501	22.1
LTE Band 5	1	Left Side	5	QPSK	10	1	49	20525	836.5	1:1	1	0.046	0.030	0.13	24.39	24.50	1.026	0.047	22.1
LTE Band 5	1	Right Side	5	QPSK	10	1	49	20525	836.5	1:1	1	0.473	0.229	-0.10	24.39	24.50	1.026	0.485	22.1
LTE Band 5	1	Top Side	5	QPSK	10	1	49	20525	836.5	1:1	1	0.021	0.010	-0.02	24.39	24.50	1.026	0.022	22.1

LTE Band 5	1	Bottom Side	5	QPSK	10	1	49	20525	836.5	1:1	1	0.488	0.251	0.01	24.39	24.50	1.026	0.501	22.1
LTE Band 5	1	Front Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.485	0.296	-0.09	23.34	23.50	1.038	0.503	22.1
LTE Band 5	1	Back Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.496	0.299	-0.03	23.34	23.50	1.038	0.515	22.1
LTE Band 5	1	Left Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.449	0.202	-0.03	23.34	23.50	1.038	0.466	22.1
LTE Band 5	1	Right Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.361	0.198	0.06	23.34	23.50	1.038	0.375	22.1
LTE Band 5	1	Top Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.018	0.008	0.09	23.34	23.50	1.038	0.019	22.1
LTE Band 5	1	Bottom Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.455	0.261	-0.04	23.34	23.50	1.038	0.472	22.1
LTE Band 5	3	Front Side	5	QPSK	10	1	0	20525	836.5	1:1	1	0.606	0.251	0.04	19.61	20.00	1.094	0.663	22.1
LTE Band 5	3	Back Side	5	QPSK	10	1	0	20525	836.5	1:1	1	0.565	0.265	0.03	19.61	20.00	1.094	0.618	22.1
LTE Band 5	3	Left Side	5	QPSK	10	1	0	20525	836.5	1:1	1	0.073	0.034	0.04	19.61	20.00	1.094	0.080	22.1
LTE Band 5	3	Right Side	5	QPSK	10	1	0	20525	836.5	1:1	1	0.668	0.309	0.00	19.61	20.00	1.094	0.731	22.1
LTE Band 5	3	Top Side	5	QPSK	10	1	0	20525	836.5	1:1	1	0.072	0.051	-0.12	19.61	20.00	1.094	0.079	22.1
LTE Band 5	3	Bottom Side	5	QPSK	10	1	0	20525	836.5	1:1	1	0.056	0.026	0.18	19.61	20.00	1.094	0.061	22.1
LTE Band 5	3	Front Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.431	0.241	-0.03	19.75	20.00	1.059	0.456	22.1
LTE Band 5	3	Back Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.435	0.252	-0.14	19.75	20.00	1.059	0.461	22.1
LTE Band 5	3	Left Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.064	0.029	-0.02	19.75	20.00	1.059	0.068	22.1
LTE Band 5	3	Right Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.587	0.263	-0.03	19.75	20.00	1.059	0.622	22.1
LTE Band 5	3	Top Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.067	0.042	-0.15	19.75	20.00	1.059	0.071	22.1
LTE Band 5	3	Bottom Side	5	QPSK	10	25	25	20525	836.5	1:1	1	0.049	0.022	-0.14	19.75	20.00	1.059	0.052	22.1
LTE Band 7	9	Front Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.573	0.334	-0.16	15.67	16.00	1.079	0.618	21.5
LTE Band 7	9	Back Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.770	0.398	0.06	15.67	16.00	1.079	0.831	21.5
LTE Band 7	9	Left Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.017	0.009	0.01	15.67	16.00	1.079	0.018	21.5
LTE Band 7	9	Right Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.308	0.150	0.14	15.67	16.00	1.079	0.332	21.5
LTE Band 7	9	Top Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.891	0.410	-0.10	15.67	16.00	1.079	0.961	21.5
LTE Band 7	9	Bottom Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.085	0.039	0.15	15.67	16.00	1.079	0.092	21.5
LTE Band 7	9	Top Side	5	QPSK	20	1	50	21100	2535	1:1	1	0.885	0.422	0.04	15.67	16.00	1.079	0.955	21.5
LTE Band 7	9	Top Side	5	QPSK	20	1	50	21350	2560	1:1	1	0.908	0.432	-0.01	15.67	16.00	1.079	0.980	21.5
LTE Band 7	9	Top Side with Repeat	5	QPSK	20	1	50	21350	2560	1:1	1	0.905	0.431	-0.02	15.67	16.00	1.079	0.976	21.5
LTE Band	9	Front	5	QPSK	20	50	0	20850	2510	1:1	1	0.469	0.267	-0.03	15.52	16.00	1.117	0.524	21.5

7		Side																	
LTE Band 7	9	Back Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.579	0.309	-0.04	15.52	16.00	1.117	0.647	21.5
LTE Band 7	9	Left Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.017	0.006	0.19	15.52	16.00	1.117	0.019	21.5
LTE Band 7	9	Right Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.260	0.124	-0.01	15.52	16.00	1.117	0.290	21.5
LTE Band 7	9	Top Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.725	0.337	-0.15	15.52	16.00	1.117	0.810	21.5
LTE Band 7	9	Bottom Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.069	0.032	0.13	15.52	16.00	1.117	0.077	21.5
LTE Band 7	9	Top Side	5	QPSK	20	50	0	21100	2535	1:1	1	0.785	0.359	-0.09	15.52	16.00	1.117	0.877	21.5
LTE Band 7	9	Top Side	5	QPSK	20	50	0	21350	2560	1:1	1	0.766	0.356	-0.11	15.52	16.00	1.117	0.856	21.5
LTE Band 7	9	Top Side	5	QPSK	20	100	0	20850	2510	1:1	1	0.755	0.338	0.09	15.56	16.00	1.107	0.836	21.5
LTE Band 7	2	Front Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.397	0.178	0.07	17.17	17.50	1.079	0.428	21.5
LTE Band 7	2	Back Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.383	0.165	-0.04	17.17	17.50	1.079	0.413	21.5
LTE Band 7	2	Left Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.046	0.021	0.14	17.17	17.50	1.079	0.050	21.5
LTE Band 7	2	Right Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.039	0.016	0.18	17.17	17.50	1.079	0.042	21.5
LTE Band 7	2	Top Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.010	0.004	-0.19	17.17	17.50	1.079	0.011	21.5
LTE Band 7	2	Bottom Side	5	QPSK	20	1	50	20850	2510	1:1	1	0.557	0.241	-0.17	17.17	17.50	1.079	0.601	21.5
LTE Band 7	2	Bottom Side	5	QPSK	20	1	0	21100	2535	1:1	1	0.585	0.253	-0.11	17.13	17.50	1.089	0.637	21.5
LTE Band 7	2	Bottom Side	5	QPSK	20	1	0	21350	2560	1:1	1	0.486	0.210	-0.14	17.13	17.50	1.089	0.529	21.5
LTE Band 7	2	Front Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.329	0.142	0.16	17.17	17.50	1.079	0.355	21.5
LTE Band 7	2	Back Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.316	0.131	0.08	17.17	17.50	1.079	0.341	21.5
LTE Band 7	2	Left Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.036	0.015	0.18	17.17	17.50	1.079	0.039	21.5
LTE Band 7	2	Right Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.016	0.009	0.19	17.17	17.50	1.079	0.017	21.5
LTE Band 7	2	Top Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.004	0.002	-0.06	17.17	17.50	1.079	0.004	21.5
LTE Band 7	2	Bottom Side	5	QPSK	20	50	0	20850	2510	1:1	1	0.433	0.187	0.12	17.17	17.50	1.079	0.467	21.5
LTE Band 12(17)	1	Front Side	5	QPSK	10	1	0	23095	707.5	1:1	1	0.596	0.278	-0.03	23.81	24.00	1.045	0.623	22.1
LTE Band 12(17)	1	Back Side	5	QPSK	10	1	0	23095	707.5	1:1	1	0.438	0.243	-0.11	23.81	24.00	1.045	0.458	22.1
LTE Band 12(17)	1	Left Side	5	QPSK	10	1	0	23095	707.5	1:1	1	0.033	0.014	0.17	23.81	24.00	1.045	0.034	22.1
LTE Band 12(17)	1	Right Side	5	QPSK	10	1	0	23095	707.5	1:1	1	0.466	0.239	-0.12	23.81	24.00	1.045	0.487	22.1
LTE Band 12(17)	1	Top Side	5	QPSK	10	1	0	23095	707.5	1:1	1	0.018	0.008	0.17	23.81	24.00	1.045	0.019	22.1
LTE Band 12(17)	1	Bottom Side	5	QPSK	10	1	0	23095	707.5	1:1	1	0.730	0.316	-0.07	23.81	24.00	1.045	0.763	22.1
LTE Band	1	Front	5	QPSK	10	25	0	23095	707.5	1:1	1	0.501	0.267	-0.15	22.89	23.00	1.026	0.514	22.1

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12(17)		Side																	
LTE Band 12(17)	1	Back Side	5	QPSK	10	25	0	23095	707.5	1:1	1	0.375	0.210	-0.10	22.89	23.00	1.026	0.385	22.1
LTE Band 12(17)	1	Left Side	5	QPSK	10	25	0	23095	707.5	1:1	1	0.029	0.015	0.11	22.89	23.00	1.026	0.030	22.1
LTE Band 12(17)	1	Right Side	5	QPSK	10	25	0	23095	707.5	1:1	1	0.387	0.184	0.02	22.89	23.00	1.026	0.397	22.1
LTE Band 12(17)	1	Top Side	5	QPSK	10	25	0	23095	707.5	1:1	1	0.015	0.007	-0.05	22.89	23.00	1.026	0.015	22.1
LTE Band 12(17)	1	Bottom Side	5	QPSK	10	25	0	23095	707.5	1:1	1	0.572	0.247	0.19	22.89	23.00	1.026	0.587	22.1
LTE Band 12(17)	3	Front Side	5	QPSK	10	1	49	23095	707.5	1:1	1	0.434	0.210	0.03	22.47	22.50	1.007	0.437	22.1
LTE Band 12(17)	3	Back Side	5	QPSK	10	1	49	23095	707.5	1:1	1	0.167	0.091	0.07	22.47	22.50	1.007	0.168	22.1
LTE Band 12(17)	3	Left Side	5	QPSK	10	1	49	23095	707.5	1:1	1	0.050	0.020	0.01	22.47	22.50	1.007	0.050	22.1
LTE Band 12(17)	3	Right Side	5	QPSK	10	1	49	23095	707.5	1:1	1	0.550	0.225	0.05	22.47	22.50	1.007	0.554	22.1
LTE Band 12(17)	3	Top Side	5	QPSK	10	1	49	23095	707.5	1:1	1	0.066	0.039	0.05	22.47	22.50	1.007	0.066	22.1
LTE Band 12(17)	3	Bottom Side	5	QPSK	10	1	49	23095	707.5	1:1	1	0.038	0.015	0.14	22.47	22.50	1.007	0.038	22.1
LTE Band 12(17)	3	Front Side	5	QPSK	10	25	25	23095	707.5	1:1	1	0.377	0.190	-0.11	22.28	22.50	1.052	0.397	22.1
LTE Band 12(17)	3	Back Side	5	QPSK	10	25	25	23095	707.5	1:1	1	0.165	0.086	0.11	22.28	22.50	1.052	0.174	22.1
LTE Band 12(17)	3	Left Side	5	QPSK	10	25	25	23095	707.5	1:1	1	0.046	0.017	-0.14	22.28	22.50	1.052	0.048	22.1
LTE Band 12(17)	3	Right Side	5	QPSK	10	25	25	23095	707.5	1:1	1	0.420	0.154	0.04	22.28	22.50	1.052	0.442	22.1
LTE Band 12(17)	3	Top Side	5	QPSK	10	25	25	23095	707.5	1:1	1	0.046	0.027	0.14	22.28	22.50	1.052	0.048	22.1
LTE Band 12(17)	3	Bottom Side	5	QPSK	10	25	25	23095	707.5	1:1	1	0.035	0.013	0.12	22.28	22.50	1.052	0.037	22.1
LTE Band 25(2)	9	Front Side	5	QPSK	20	1	0	26365	1882.5	1:1	1	0.302	0.143	0.13	19.57	20.00	1.104	0.333	21.2
LTE Band 25(2)	9	Back Side	5	QPSK	20	1	0	26365	1882.5	1:1	1	0.345	0.163	0.04	19.57	20.00	1.104	0.381	21.2
LTE Band 25(2)	9	Left Side	5	QPSK	20	1	0	26365	1882.5	1:1	1	0.016	0.009	-0.13	19.57	20.00	1.104	0.018	21.2
LTE Band 25(2)	9	Right Side	5	QPSK	20	1	0	26365	1882.5	1:1	1	0.046	0.024	0.01	19.57	20.00	1.104	0.051	21.2
LTE Band 25(2)	9	Top Side	5	QPSK	20	1	0	26365	1882.5	1:1	1	0.722	0.348	0.01	19.57	20.00	1.104	0.797	22.1
LTE Band 25(2)	9	Bottom Side	5	QPSK	20	1	0	26365	1882.5	1:1	1	0.066	0.031	0.04	19.57	20.00	1.104	0.073	21.2
LTE Band 25(2)	9	Top Side	5	QPSK	20	1	0	26140	1860	1:1	1	0.710	0.322	-0.09	19.56	20.00	1.107	0.786	21.2
LTE Band 25(2)	9	Top Side	5	QPSK	20	1	99	26590	1905	1:1	1	0.570	0.266	0.09	19.45	20.00	1.135	0.647	21.2
LTE Band 25(2)	9	Front Side	5	QPSK	20	50	25	26365	1882.5	1:1	1	0.250	0.120	-0.03	19.51	20.00	1.119	0.280	21.2
LTE Band 25(2)	9	Back Side	5	QPSK	20	50	25	26365	1882.5	1:1	1	0.283	0.131	0.02	19.51	20.00	1.119	0.317	21.2
LTE Band 25(2)	9	Left Side	5	QPSK	20	50	25	26365	1882.5	1:1	1	0.008	0.004	0.02	19.51	20.00	1.119	0.009	21.2
LTE Band	9	Right	5	QPSK	20	50	25	26365	1882.5	1:1	1	0.037	0.019	0.00	19.51	20.00	1.119	0.041	21.2

25(2)		Side																	
LTE Band 25(2)	9	Top Side	5	QPSK	20	50	25	26365	1882.5	1:1	1	0.582	0.270	0.11	19.51	20.00	1.119	0.651	21.2
LTE Band 25(2)	9	Bottom Side	5	QPSK	20	50	25	26365	1882.5	1:1	1	0.056	0.026	0.02	19.51	20.00	1.119	0.063	21.2
LTE Band 25(2)	2	Front Side	5	QPSK	20	1	50	26365	1882.5	1:1	1	0.389	0.152	0.04	16.90	17.00	1.023	0.398	21.2
LTE Band 25(2)	2	Back Side	5	QPSK	20	1	50	26365	1882.5	1:1	1	0.443	0.173	0.15	16.90	17.00	1.023	0.453	21.2
LTE Band 25(2)	2	Left Side	5	QPSK	20	1	50	26365	1882.5	1:1	1	0.021	0.009	0.03	16.90	17.00	1.023	0.021	21.2
LTE Band 25(2)	2	Right Side	5	QPSK	20	1	50	26365	1882.5	1:1	1	0.058	0.025	-0.07	16.90	17.00	1.023	0.059	21.2
LTE Band 25(2)	2	Top Side	5	QPSK	20	1	50	26365	1882.5	1:1	1	0.015	0.006	0.18	16.90	17.00	1.023	0.015	21.2
LTE Band 25(2)	2	Bottom Side	5	QPSK	20	1	50	26365	1882.5	1:1	1	0.680	0.306	-0.17	16.90	17.00	1.023	0.696	21.2
LTE Band 25(2)	2	Front Side	5	QPSK	20	50	50	26365	1882.5	1:1	1	0.254	0.123	0.05	16.86	17.00	1.033	0.262	21.2
LTE Band 25(2)	2	Back Side	5	QPSK	20	50	50	26365	1882.5	1:1	1	0.287	0.135	-0.16	16.86	17.00	1.033	0.296	21.2
LTE Band 25(2)	2	Left Side	5	QPSK	20	50	50	26365	1882.5	1:1	1	0.008	0.004	0.16	16.86	17.00	1.033	0.008	21.2
LTE Band 25(2)	2	Right Side	5	QPSK	20	50	50	26365	1882.5	1:1	1	0.035	0.018	0.02	16.86	17.00	1.033	0.036	21.2
LTE Band 25(2)	2	Top Side	5	QPSK	20	50	50	26365	1882.5	1:1	1	0.009	0.004	0.04	16.86	17.00	1.033	0.009	21.2
LTE Band 25(2)	2	Bottom Side	5	QPSK	20	50	50	26365	1882.5	1:1	1	0.515	0.231	0.09	16.86	17.00	1.033	0.532	21.2
LTE Band 26	1	Front Side	5	QPSK	15	1	0	26865	831.5	1:1	1	0.460	0.195	0.06	23.53	24.00	1.114	0.512	22.1
LTE Band 26	1	Back Side	5	QPSK	15	1	0	26865	831.5	1:1	1	0.414	0.188	-0.07	23.53	24.00	1.114	0.461	22.1
LTE Band 26	1	Left Side	5	QPSK	15	1	0	26865	831.5	1:1	1	0.033	0.012	-0.02	23.53	24.00	1.114	0.037	22.1
LTE Band 26	1	Right Side	5	QPSK	15	1	0	26865	831.5	1:1	1	0.444	0.175	-0.10	23.53	24.00	1.114	0.495	22.1
LTE Band 26	1	Top Side	5	QPSK	15	1	0	26865	831.5	1:1	1	0.017	0.006	0.15	23.53	24.00	1.114	0.019	22.1
LTE Band 26	1	Bottom Side	5	QPSK	15	1	0	26865	831.5	1:1	1	0.483	0.214	-0.03	23.53	24.00	1.114	0.538	22.1
LTE Band 26	1	Front Side	5	QPSK	15	36	0	26865	831.5	1:1	1	0.391	0.196	-0.17	22.59	23.00	1.099	0.430	22.1
LTE Band 26	1	Back Side	5	QPSK	15	36	0	26865	831.5	1:1	1	0.347	0.185	0.18	22.59	23.00	1.099	0.381	22.1
LTE Band 26	1	Left Side	5	QPSK	15	36	0	26865	831.5	1:1	1	0.033	0.013	-0.14	22.59	23.00	1.099	0.036	22.1
LTE Band 26	1	Right Side	5	QPSK	15	36	0	26865	831.5	1:1	1	0.285	0.129	-0.01	22.59	23.00	1.099	0.313	22.1
LTE Band 26	1	Top Side	5	QPSK	15	36	0	26865	831.5	1:1	1	0.017	0.006	-0.14	22.59	23.00	1.099	0.019	22.1
LTE Band 26	1	Bottom Side	5	QPSK	15	36	0	26865	831.5	1:1	1	0.392	0.167	0.10	22.59	23.00	1.099	0.431	22.1
LTE Band 26	3	Front Side	5	QPSK	15	1	74	26865	831.5	1:1	1	0.438	0.230	0.15	20.93	21.00	1.016	0.445	22.1
LTE Band 26	3	Back Side	5	QPSK	15	1	74	26865	831.5	1:1	1	0.477	0.254	-0.01	20.93	21.00	1.016	0.485	22.1
LTE Band	3	Left Side	5	QPSK	15	1	74	26865	831.5	1:1	1	0.037	0.019	-0.01	20.93	21.00	1.016	0.038	22.1

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26																			
LTE Band 26	3	Right Side	5	QPSK	15	1	74	26865	831.5	1:1	1	0.337	0.174	-0.17	20.93	21.00	1.016	0.342	22.1
LTE Band 26	3	Top Side	5	QPSK	15	1	74	26865	831.5	1:1	1	0.024	0.016	-0.10	20.93	21.00	1.016	0.024	22.1
LTE Band 26	3	Bottom Side	5	QPSK	15	1	74	26865	831.5	1:1	1	0.028	0.015	-0.02	20.93	21.00	1.016	0.028	22.1
LTE Band 26	3	Front Side	5	QPSK	15	36	39	26865	831.5	1:1	1	0.351	0.190	0.15	20.94	21.00	1.014	0.356	22.1
LTE Band 26	3	Back Side	5	QPSK	15	36	39	26865	831.5	1:1	1	0.304	0.174	0.18	20.94	21.00	1.014	0.308	22.1
LTE Band 26	3	Left Side	5	QPSK	15	36	39	26865	831.5	1:1	1	0.034	0.017	-0.13	20.94	21.00	1.014	0.034	22.1
LTE Band 26	3	Right Side	5	QPSK	15	36	39	26865	831.5	1:1	1	0.310	0.157	-0.07	20.94	21.00	1.014	0.314	22.1
LTE Band 26	3	Top Side	5	QPSK	15	36	39	26865	831.5	1:1	1	0.019	0.013	0.11	20.94	21.00	1.014	0.019	22.1
LTE Band 26	3	Bottom Side	5	QPSK	15	36	39	26865	831.5	1:1	1	0.026	0.014	-0.19	20.94	21.00	1.014	0.026	22.1
LTE Band 34	9	Front Side	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.541	0.336	0.08	20.79	21.50	1.178	0.637	21.5
LTE Band 34	9	Back Side	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.725	0.400	0.02	20.79	21.50	1.178	0.854	21.5
LTE Band 34	9	Left Side	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.016	0.009	0.00	20.79	21.50	1.178	0.019	21.5
LTE Band 34	9	Right Side	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.283	0.152	0.07	20.79	21.50	1.178	0.333	21.5
LTE Band 34	9	Top Side	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.818	0.415	0.02	20.79	21.50	1.178	0.964	21.5
LTE Band 34	9	Bottom Side	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.078	0.039	0.01	20.79	21.50	1.178	0.092	21.5
LTE Band 34	9	Top Side with Repeat	5	QPSK	15	1	74	36275	2017.5	1:1.58	1	0.805	0.405	0.03	20.79	21.50	1.178	0.948	21.5
LTE Band 34	9	Front Side	5	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.422	0.260	0.18	20.83	21.50	1.167	0.492	21.5
LTE Band 34	9	Back Side	5	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.519	0.301	0.05	20.83	21.50	1.167	0.606	21.5
LTE Band 34	9	Left Side	5	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.015	0.006	-0.02	20.83	21.50	1.167	0.018	21.5
LTE Band 34	9	Right Side	5	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.233	0.130	0.03	20.83	21.50	1.167	0.272	21.5
LTE Band 34	9	Top Side	5	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.649	0.352	0.16	20.83	21.50	1.167	0.757	21.5
LTE Band 34	9	Bottom Side	5	QPSK	15	36	18	36275	2017.5	1:1.58	1	0.062	0.034	0.19	20.83	21.50	1.167	0.072	21.5
LTE Band 34	9	Top Side	5	QPSK	15	75	0	36275	2017.5	1:1.58	1	0.802	0.405	0.03	20.73	21.50	1.194	0.958	21.5
LTE Band 34	2	Front Side	5	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.443	0.183	0.05	19.68	20.00	1.076	0.477	21.5
LTE Band 34	2	Back Side	5	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.505	0.208	-0.12	19.68	20.00	1.076	0.543	21.5
LTE Band 34	2	Left Side	5	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.024	0.012	0.01	19.68	20.00	1.076	0.026	21.5
LTE Band 34	2	Right Side	5	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.066	0.030	0.17	19.68	20.00	1.076	0.071	21.5
LTE Band 34	2	Top Side	5	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.017	0.008	-0.11	19.68	20.00	1.076	0.018	21.5

LTE Band 34	2	Bottom Side	5	QPSK	15	1	0	36275	2017.5	1:1.58	1	0.775	0.368	-0.19	19.68	20.00	1.076	0.834	21.5
LTE Band 34	2	Front Side	5	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.313	0.160	0.16	19.57	20.00	1.104	0.346	21.5
LTE Band 34	2	Back Side	5	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.354	0.175	-0.19	19.57	20.00	1.104	0.391	21.5
LTE Band 34	2	Left Side	5	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.010	0.005	-0.06	19.57	20.00	1.104	0.011	21.5
LTE Band 34	2	Right Side	5	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.044	0.024	0.02	19.57	20.00	1.104	0.049	21.5
LTE Band 34	2	Top Side	5	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.011	0.006	-0.13	19.57	20.00	1.104	0.012	21.5
LTE Band 34	2	Bottom Side	5	QPSK	15	36	0	36275	2017.5	1:1.58	1	0.635	0.301	-0.15	19.57	20.00	1.104	0.701	21.5
LTE Band 34	2	Bottom Side	5	QPSK	15	75	0	36275	2017.5	1:1.58	1	0.622	0.289	0.07	19.72	20.00	1.067	0.664	21.5
LTE Band 38	9	Front Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.305	0.150	-0.05	18.13	18.50	1.089	0.332	21.5
LTE Band 38	9	Back Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.408	0.179	0.17	18.13	18.50	1.089	0.444	21.5
LTE Band 38	9	Left Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.009	0.004	-0.14	18.13	18.50	1.089	0.010	21.5
LTE Band 38	9	Right Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.166	0.072	0.02	18.13	18.50	1.089	0.181	21.5
LTE Band 38	9	Top Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.822	0.415	0.08	18.13	18.50	1.089	0.895	21.5
LTE Band 38	9	Bottom Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.046	0.019	-0.18	18.13	18.50	1.089	0.050	21.5
LTE Band 38	9	Top Side with Repeat	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.821	0.411	0.09	18.13	18.50	1.089	0.894	21.5
LTE Band 38	9	Front Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.245	0.124	-0.09	17.98	18.50	1.127	0.276	21.5
LTE Band 38	9	Back Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.303	0.144	-0.14	17.98	18.50	1.127	0.341	21.5
LTE Band 38	9	Left Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.009	0.003	-0.19	17.98	18.50	1.127	0.010	21.5
LTE Band 38	9	Right Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.137	0.064	-0.08	17.98	18.50	1.127	0.154	21.5
LTE Band 38	9	Top Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.788	0.365	0.06	17.98	18.50	1.127	0.888	21.5
LTE Band 38	9	Bottom Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.036	0.017	-0.13	17.98	18.50	1.127	0.041	21.5
LTE Band 38	9	Top Side	5	QPSK	20	100	0	38000	2595	1:1.58	1	0.768	0.355	0.06	18.10	18.50	1.096	0.842	21.5
LTE Band 38	2	Front Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.630	0.257	0.06	18.62	19.00	1.091	0.687	21.5
LTE Band 38	2	Back Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.555	0.251	-0.10	18.62	19.00	1.091	0.606	21.5
LTE Band 38	2	Left Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.012	0.006	-0.12	18.62	19.00	1.091	0.013	21.5
LTE Band 38	2	Right Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.068	0.032	0.04	18.62	19.00	1.091	0.074	21.5
LTE Band 38	2	Top Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.017	0.008	-0.11	18.62	19.00	1.091	0.019	21.5
LTE Band 38	2	Bottom Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.690	0.292	0.04	18.62	19.00	1.091	0.753	21.5
LTE Band	2	Front	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.449	0.207	-0.02	18.72	19.00	1.067	0.479	21.5

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38		Side																	
LTE Band 38	2	Back Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.441	0.197	-0.15	18.72	19.00	1.067	0.471	21.5
LTE Band 38	2	Left Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.010	0.006	0.16	18.72	19.00	1.067	0.011	21.5
LTE Band 38	2	Right Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.065	0.028	-0.16	18.72	19.00	1.067	0.069	21.5
LTE Band 38	2	Top Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.017	0.007	0.17	18.72	19.00	1.067	0.018	21.5
LTE Band 38	2	Bottom Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.535	0.225	0.08	18.72	19.00	1.067	0.571	21.5
LTE Band 38	3	Front Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.775	0.346	-0.04	22.03	22.50	1.114	0.863	21.0
LTE Band 38	3	Back Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.785	0.355	-0.04	22.03	22.50	1.114	0.874	21.0
LTE Band 38	3	Left Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.043	0.025	0.06	22.03	22.50	1.114	0.048	21.0
LTE Band 38	3	Right Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.752	0.280	0.06	22.03	22.50	1.114	0.838	21.0
LTE Band 38	3	Top Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.053	0.024	0.02	22.03	22.50	1.114	0.059	21.0
LTE Band 38	3	Bottom Side	5	QPSK	20	1	50	38000	2595	1:1.58	1	0.039	0.017	0.15	22.03	22.50	1.114	0.043	21.0
LTE Band 38	3	Front Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.580	0.250	-0.10	21.13	21.50	1.089	0.632	21.0
LTE Band 38	3	Back Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.644	0.267	-0.10	21.13	21.50	1.089	0.701	21.0
LTE Band 38	3	Left Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.053	0.013	-0.01	21.13	21.50	1.089	0.058	21.0
LTE Band 38	3	Right Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.621	0.215	0.11	21.13	21.50	1.089	0.676	21.0
LTE Band 38	3	Top Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.042	0.023	0.11	21.13	21.50	1.089	0.046	21.0
LTE Band 38	3	Bottom Side	5	QPSK	20	50	25	38000	2595	1:1.58	1	0.034	0.013	0.01	21.13	21.50	1.089	0.037	21.0
LTE Band 38	3	Back Side	5	QPSK	20	100	0	38000	2595	1:1.58	1	0.633	0.268	0.03	21.13	21.50	1.089	0.689	21.0
LTE Band 38	1	Front Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.504	0.219	-0.17	22.28	22.50	1.052	0.530	21.0
LTE Band 38	1	Back Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.265	0.143	0.12	22.28	22.50	1.052	0.279	21.0
LTE Band 38	1	Left Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.053	0.014	0.14	22.28	22.50	1.052	0.056	21.0
LTE Band 38	1	Right Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.315	0.166	0.07	22.28	22.50	1.052	0.331	21.0
LTE Band 38	1	Top Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.061	0.038	-0.10	22.28	22.50	1.052	0.064	21.0
LTE Band 38	1	Bottom Side	5	QPSK	20	1	0	38000	2595	1:1.58	1	0.108	0.041	-0.01	22.28	22.50	1.052	0.114	21.0
LTE Band 38	1	Front Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.359	0.166	-0.18	21.30	21.50	1.047	0.376	21.0
LTE Band 38	1	Back Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.328	0.146	0.16	21.30	21.50	1.047	0.343	21.0
LTE Band 38	1	Left Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.043	0.025	0.04	21.30	21.50	1.047	0.045	21.0
LTE Band 38	1	Right Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.281	0.147	-0.13	21.30	21.50	1.047	0.294	21.0
LTE Band	1	Top Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.037	0.014	-0.10	21.30	21.50	1.047	0.039	21.0

38																			
LTE Band 38	1	Bottom Side	5	QPSK	20	50	0	38000	2595	1:1.58	1	0.077	0.029	-0.11	21.30	21.50	1.047	0.081	21.0
LTE Band 40	9	Front Side	5	QPSK	20	1	0	39150	2350	1:1.58	1	0.433	0.221	0.05	17.43	18.00	1.140	0.494	21.5
LTE Band 40	9	Back Side	5	QPSK	20	1	0	39150	2350	1:1.58	1	0.582	0.263	-0.15	17.43	18.00	1.140	0.663	21.5
LTE Band 40	9	Left Side	5	QPSK	20	1	0	39150	2350	1:1.58	1	0.013	0.006	0.03	17.43	18.00	1.140	0.015	21.5
LTE Band 40	9	Right Side	5	QPSK	20	1	0	39150	2350	1:1.58	1	0.228	0.107	0.14	17.43	18.00	1.140	0.260	21.5
LTE Band 40	9	Top Side	5	QPSK	20	1	0	39150	2350	1:1.58	1	0.659	0.292	0.05	17.43	18.00	1.140	0.751	21.5
LTE Band 40	9	Bottom Side	5	QPSK	20	1	0	39150	2350	1:1.58	1	0.063	0.028	-0.06	17.43	18.00	1.140	0.072	21.5
LTE Band 40	9	Top Side	5	QPSK	20	1	50	38750	2310	1:1.58	1	0.633	0.275	0.06	16.83	18.00	1.309	0.829	21.5
LTE Band 40	9	Top Side	5	QPSK	20	1	99	39550	2390	1:1.58	1	0.644	0.288	0.03	16.78	18.00	1.324	0.853	21.5
LTE Band 40	9	Front Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.414	0.224	0.01	17.57	18.00	1.104	0.457	21.5
LTE Band 40	9	Back Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.511	0.259	0.19	17.57	18.00	1.104	0.564	21.5
LTE Band 40	9	Left Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.015	0.005	0.18	17.57	18.00	1.104	0.017	21.5
LTE Band 40	9	Right Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.233	0.103	0.19	17.57	18.00	1.104	0.257	21.5
LTE Band 40	9	Top Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.649	0.280	0.18	17.57	18.00	1.104	0.716	21.5
LTE Band 40	9	Bottom Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.062	0.027	0.05	17.57	18.00	1.104	0.068	21.5
LTE Band 40	2	Front Side	5	QPSK	20	1	50	39150	2350	1:1.58	1	0.349	0.134	0.02	19.66	20.00	1.081	0.377	21.5
LTE Band 40	2	Back Side	5	QPSK	20	1	50	39150	2350	1:1.58	1	0.397	0.152	0.08	19.66	20.00	1.081	0.429	21.5
LTE Band 40	2	Left Side	5	QPSK	20	1	50	39150	2350	1:1.58	1	0.019	0.009	0.00	19.66	20.00	1.081	0.021	21.5
LTE Band 40	2	Right Side	5	QPSK	20	1	50	39150	2350	1:1.58	1	0.052	0.022	0.14	19.66	20.00	1.081	0.056	21.5
LTE Band 40	2	Top Side	5	QPSK	20	1	50	39150	2350	1:1.58	1	0.013	0.006	0.07	19.66	20.00	1.081	0.014	21.5
LTE Band 40	2	Bottom Side	5	QPSK	20	1	50	39150	2350	1:1.58	1	0.610	0.270	-0.17	19.66	20.00	1.081	0.659	21.5
LTE Band 40	2	Front Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.293	0.141	0.12	19.64	20.00	1.086	0.318	21.5
LTE Band 40	2	Back Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.332	0.154	-0.03	19.64	20.00	1.086	0.361	21.5
LTE Band 40	2	Left Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.009	0.005	0.19	19.64	20.00	1.086	0.010	21.5
LTE Band 40	2	Right Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.041	0.021	0.04	19.64	20.00	1.086	0.045	21.5
LTE Band 40	2	Top Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.010	0.006	-0.05	19.64	20.00	1.086	0.011	21.5
LTE Band 40	2	Bottom Side	5	QPSK	20	50	0	39150	2350	1:1.58	1	0.595	0.265	-0.10	19.64	20.00	1.086	0.646	21.5
LTE Band 41	9	Front Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.369	0.184	0.00	21.41	21.50	1.021	0.377	21.9
LTE Band	9	Back	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.496	0.219	-0.13	21.41	21.50	1.021	0.506	21.9

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41		Side																	
LTE Band 41	9	Left Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.011	0.005	0.11	21.41	21.50	1.021	0.011	21.9
LTE Band 41	9	Right Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.203	0.088	-0.03	21.41	21.50	1.021	0.207	21.9
LTE Band 41	9	Top Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.588	0.242	0.01	21.41	21.50	1.021	0.600	21.9
LTE Band 41	9	Bottom Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.056	0.023	0.06	21.41	21.50	1.021	0.057	21.9
LTE Band 41	9	Top Side	5	QPSK	20	1	0	40185	2549.5	1:2.31	1	0.599	0.263	0.12	21.18	21.50	1.076	0.645	21.9
LTE Band 41	9	Top Side	5	QPSK	20	1	0	40620	2593	1:2.31	1	0.636	0.300	-0.01	21.25	21.50	1.059	0.674	21.9
LTE Band 41	9	Top Side	5	QPSK	20	1	0	41055	2636.5	1:2.31	1	0.549	0.242	-0.19	21.21	21.50	1.069	0.587	21.9
LTE Band 41	9	Top Side	5	QPSK	20	1	0	41490	2680	1:2.31	1	0.544	0.241	0.01	21.40	21.50	1.023	0.557	21.9
LTE Band 41	9	Front Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.363	0.182	-0.18	21.33	21.50	1.040	0.378	21.9
LTE Band 41	9	Back Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.445	0.211	-0.06	21.33	21.50	1.040	0.463	21.9
LTE Band 41	9	Left Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.013	0.004	-0.03	21.33	21.50	1.040	0.014	21.9
LTE Band 41	9	Right Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.200	0.093	0.19	21.33	21.50	1.040	0.208	21.9
LTE Band 41	9	Top Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.557	0.252	-0.02	21.33	21.50	1.040	0.579	21.9
LTE Band 41	9	Bottom Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.053	0.024	0.02	21.33	21.50	1.040	0.055	21.9
LTE Band 41	2	Front Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.349	0.133	0.06	18.88	19.00	1.028	0.359	21.9
LTE Band 41	2	Back Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.397	0.151	-0.06	18.88	19.00	1.028	0.408	21.9
LTE Band 41	2	Left Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.019	0.009	0.13	18.88	19.00	1.028	0.020	21.9
LTE Band 41	2	Right Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.052	0.022	0.05	18.88	19.00	1.028	0.053	21.9
LTE Band 41	2	Top Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.014	0.006	0.01	18.88	19.00	1.028	0.014	21.9
LTE Band 41	2	Bottom Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.610	0.267	-0.04	18.88	19.00	1.028	0.627	21.9
LTE Band 41	2	Front Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.283	0.138	0.01	18.85	19.00	1.035	0.293	21.9
LTE Band 41	2	Back Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.320	0.151	0.09	18.85	19.00	1.035	0.331	21.9
LTE Band 41	2	Left Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.009	0.005	-0.19	18.85	19.00	1.035	0.009	21.9
LTE Band 41	2	Right Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.040	0.021	0.19	18.85	19.00	1.035	0.041	21.9
LTE Band 41	2	Top Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.010	0.005	-0.14	18.85	19.00	1.035	0.010	21.9
LTE Band 41	2	Bottom Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.575	0.260	0.19	18.85	19.00	1.035	0.595	21.9
LTE Band 41	3	Front Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.613	0.250	0.16	20.85	21.00	1.035	0.634	21.0
LTE Band 41	3	Back Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.617	0.264	-0.09	20.85	21.00	1.035	0.639	21.0
LTE Band	3	Left Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.033	0.015	-0.18	20.85	21.00	1.035	0.034	21.0

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41																			
LTE Band 41	3	Right Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.478	0.177	-0.06	20.85	21.00	1.035	0.495	21.0
LTE Band 41	3	Top Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.049	0.025	0.07	20.85	21.00	1.035	0.051	21.0
LTE Band 41	3	Bottom Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.029	0.014	-0.15	20.85	21.00	1.035	0.030	21.0
LTE Band 41	3	Front Side	5	QPSK	20	1	50	40185	2549.5	1:2.31	1	0.598	0.242	0.05	20.61	21.00	1.094	0.654	21.0
LTE Band 41	3	Front Side	5	QPSK	20	1	0	40620	2593	1:2.31	1	0.578	0.234	0.06	20.78	21.00	1.052	0.608	21.0
LTE Band 41	3	Front Side	5	QPSK	20	1	0	41055	2636.5	1:2.31	1	0.564	0.221	-0.03	20.72	21.00	1.067	0.602	21.0
LTE Band 41	3	Front Side	5	QPSK	20	1	50	41490	2680	1:2.31	1	0.601	0.241	-0.13	20.77	21.00	1.054	0.633	21.0
LTE Band 41	3	Back Side	5	QPSK	20	1	50	40185	2549.5	1:2.31	1	0.602	0.245	0.16	20.61	21.00	1.094	0.659	21.0
LTE Band 41	3	Back Side	5	QPSK	20	1	0	40620	2593	1:2.31	1	0.588	0.238	0.14	20.78	21.00	1.052	0.619	21.0
LTE Band 41	3	Back Side	5	QPSK	20	1	0	41055	2636.5	1:2.31	1	0.572	0.225	-0.02	20.72	21.00	1.067	0.610	21.0
LTE Band 41	3	Back Side	5	QPSK	20	1	50	41490	2680	1:2.31	1	0.605	0.246	0.00	20.77	21.00	1.054	0.638	21.0
LTE Band 41	3	Front Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.526	0.216	-0.14	20.79	21.00	1.050	0.552	21.0
LTE Band 41	3	Back Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.487	0.232	-0.19	20.79	21.00	1.050	0.511	21.0
LTE Band 41	3	Left Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.027	0.016	0.04	20.79	21.00	1.050	0.028	21.0
LTE Band 41	3	Right Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.408	0.190	0.06	20.79	21.00	1.050	0.428	21.0
LTE Band 41	3	Top Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.027	0.013	-0.19	20.79	21.00	1.050	0.028	21.0
LTE Band 41	3	Bottom Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.023	0.011	0.06	20.79	21.00	1.050	0.024	21.0
LTE Band 41	1	Front Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.580	3.280	-0.15	23.86	24.00	1.033	0.599	21.0
LTE Band 41	1	Back Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.475	0.296	-0.16	23.86	24.00	1.033	0.491	21.0
LTE Band 41	1	Left Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.200	0.175	0.04	23.86	24.00	1.033	0.207	21.0
LTE Band 41	1	Right Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.487	0.312	-0.12	23.86	24.00	1.033	0.503	21.0
LTE Band 41	1	Top Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.178	0.163	-0.11	23.86	24.00	1.033	0.184	21.0
LTE Band 41	1	Bottom Side	5	QPSK	20	1	0	39750	2506	1:2.31	1	0.231	0.184	-0.13	23.86	24.00	1.033	0.239	21.0
LTE Band 41	1	Front Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.533	0.311	0.17	22.89	23.00	1.026	0.547	21.0
LTE Band 41	1	Back Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.408	0.263	0.00	22.89	23.00	1.026	0.419	21.0
LTE Band 41	1	Left Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.189	0.167	-0.06	22.89	23.00	1.026	0.194	21.0
LTE Band 41	1	Right Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.400	0.282	-0.07	22.89	23.00	1.026	0.410	21.0
LTE Band 41	1	Top Side	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.173	0.159	-0.03	22.89	23.00	1.026	0.177	21.0
LTE Band	1	Bottom	5	QPSK	20	50	0	39750	2506	1:2.31	1	0.222	0.175	-0.15	22.89	23.00	1.026	0.228	21.0

41		Side																	
LTE Band 42	10	Front Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.498	0.178	-0.11	17.81	18.00	1.045	0.520	21.2
LTE Band 42	10	Back Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.498	0.178	-0.02	17.81	18.00	1.045	0.520	21.2
LTE Band 42	10	Left Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.011	0.004	0.02	17.81	18.00	1.045	0.011	21.2
LTE Band 42	10	Right Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.198	0.073	-0.01	17.81	18.00	1.045	0.207	21.2
LTE Band 42	10	Top Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.699	0.268	0.01	17.81	18.00	1.045	0.730	21.3
LTE Band 42	10	Bottom Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.032	0.011	-0.11	17.81	18.00	1.045	0.033	21.2
LTE Band 42	10	Front Side	5	QPSK	20	1	99	41690	3410	1:1.58	1	0.482	0.154	-0.01	17.71	18.00	1.069	0.515	21.2
LTE Band 42	10	Front Side	5	QPSK	20	1	50	43490	3590	1:1.58	1	0.473	0.145	0.16	17.76	18.00	1.057	0.500	21.2
LTE Band 42	10	Back Side	5	QPSK	20	1	99	41690	3410	1:1.58	1	0.484	0.156	-0.10	17.71	18.00	1.069	0.517	21.2
LTE Band 42	10	Back Side	5	QPSK	20	1	50	43490	3590	1:1.58	1	0.475	0.147	-0.06	17.76	18.00	1.057	0.502	21.2
LTE Band 42	10	Top Side	5	QPSK	20	1	99	41690	3410	1:1.58	1	0.500	0.200	-0.08	17.71	18.00	1.069	0.535	21.2
LTE Band 42	10	Top Side	5	QPSK	20	1	50	43490	3590	1:1.58	1	0.464	0.205	-0.16	17.76	18.00	1.057	0.490	21.2
LTE Band 42	10	Front Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.330	0.134	0.04	17.88	18.00	1.028	0.339	21.2
LTE Band 42	10	Back Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.330	0.134	-0.13	17.88	18.00	1.028	0.339	21.2
LTE Band 42	10	Left Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.010	0.003	-0.03	17.88	18.00	1.028	0.010	21.2
LTE Band 42	10	Right Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.154	0.062	-0.09	17.88	18.00	1.028	0.158	21.2
LTE Band 42	10	Top Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.428	0.168	-0.14	17.88	18.00	1.028	0.440	21.2
LTE Band 42	10	Bottom Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.024	0.010	-0.16	17.88	18.00	1.028	0.025	21.2
LTE Band 42	10	Top Side	5	QPSK	20	50	25	41690	3410	1:1.58	1	0.412	0.154	0.12	17.68	18.00	1.076	0.443	21.2
LTE Band 42	10	Top Side	5	QPSK	20	50	25	43490	3590	1:1.58	1	0.404	0.148	0.16	17.78	18.00	1.052	0.425	21.2
LTE Band 42	2	Front Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.466	0.177	-0.15	19.54	20.00	1.112	0.518	21.2
LTE Band 42	2	Back Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.457	0.169	-0.16	19.54	20.00	1.112	0.508	21.2
LTE Band 42	2	Left Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.018	0.009	-0.04	19.54	20.00	1.112	0.020	21.2
LTE Band 42	2	Right Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.036	0.016	0.09	19.54	20.00	1.112	0.040	21.2
LTE Band 42	2	Top Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.009	0.004	0.01	19.54	20.00	1.112	0.010	21.2
LTE Band 42	2	Bottom Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.655	0.245	-0.10	19.54	20.00	1.112	0.728	21.2
LTE Band 42	2	Front Side	5	QPSK	20	1	0	41690	3410	1:1.58	1	0.452	0.165	0.09	19.53	20.00	1.114	0.504	21.2
LTE Band 42	2	Front Side	5	QPSK	20	1	99	43490	3590	1:1.58	1	0.445	0.158	0.15	19.41	20.00	1.146	0.510	21.2
LTE Band	2	Back	5	QPSK	20	1	0	41690	3410	1:1.58	1	0.430	0.155	0.18	19.53	20.00	1.114	0.479	21.2

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42		Side																	
LTE Band 42	2	Back Side	5	QPSK	20	1	99	43490	3590	1:1.58	1	0.421	0.143	0.06	19.41	20.00	1.146	0.482	21.2
LTE Band 42	2	Bottom Side	5	QPSK	20	1	0	41690	3410	1:1.58	1	0.641	0.238	0.08	19.53	20.00	1.114	0.714	21.2
LTE Band 42	2	Bottom Side	5	QPSK	20	1	99	43490	3590	1:1.58	1	0.629	0.226	-0.08	19.41	20.00	1.146	0.721	21.2
LTE Band 42	2	Front Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.370	0.139	-0.10	19.49	20.00	1.125	0.416	21.2
LTE Band 42	2	Back Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.353	0.127	0.10	19.49	20.00	1.125	0.397	21.2
LTE Band 42	2	Left Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.016	0.008	-0.08	19.49	20.00	1.125	0.018	21.2
LTE Band 42	2	Right Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.031	0.013	0.05	19.49	20.00	1.125	0.035	21.2
LTE Band 42	2	Top Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.008	0.003	0.07	19.49	20.00	1.125	0.009	21.2
LTE Band 42	2	Bottom Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.485	0.165	-0.09	19.49	20.00	1.125	0.546	21.2
LTE Band 42	2	Front Side	5	QPSK	20	50	0	41690	3410	1:1.58	1	0.367	0.135	-0.06	19.45	20.00	1.135	0.417	21.2
LTE Band 42	2	Front Side	5	QPSK	20	50	0	43490	3590	1:1.58	1	0.359	0.128	-0.12	19.42	20.00	1.143	0.410	21.2
LTE Band 42	2	Bottom Side	5	QPSK	20	50	0	41690	3410	1:1.58	1	0.348	0.122	0.04	19.45	20.00	1.135	0.395	21.2
LTE Band 42	2	Bottom Side	5	QPSK	20	50	0	43490	3590	1:1.58	1	0.337	0.115	-0.17	19.42	20.00	1.143	0.385	21.2
LTE Band 42	8	Front Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.279	0.118	0.15	17.08	17.50	1.102	0.307	21.0
LTE Band 42	8	Back Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.358	0.145	0.06	17.08	17.50	1.102	0.395	21.0
LTE Band 42	8	Left Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.014	0.005	-0.11	17.08	17.50	1.102	0.015	21.0
LTE Band 42	8	Right Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.099	0.033	-0.11	17.08	17.50	1.102	0.109	21.0
LTE Band 42	8	Top Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.634	0.235	-0.06	17.08	17.50	1.102	0.699	21.0
LTE Band 42	8	Bottom Side	5	QPSK	20	1	0	42590	3500	1:1.58	1	0.024	0.006	-0.04	17.08	17.50	1.102	0.026	21.0
LTE Band 42	8	Top Side	5	QPSK	20	1	0	41690	3410	1:1.58	1	0.621	0.224	0.01	17.05	17.50	1.109	0.689	21.0
LTE Band 42	8	Top Side	5	QPSK	20	1	0	43490	3590	1:1.58	1	0.613	0.215	-0.19	17.05	17.50	1.109	0.680	21.0
LTE Band 42	8	Front Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.215	0.093	0.12	17.05	17.50	1.109	0.238	21.0
LTE Band 42	8	Back Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.307	0.126	0.02	17.05	17.50	1.109	0.340	21.0
LTE Band 42	8	Left Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.012	0.007	-0.13	17.05	17.50	1.109	0.013	21.0
LTE Band 42	8	Right Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.068	0.026	0.19	17.05	17.50	1.109	0.075	21.0
LTE Band 42	8	Top Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.516	0.199	0.03	17.05	17.50	1.109	0.572	21.0
LTE Band 42	8	Bottom Side	5	QPSK	20	50	25	42590	3500	1:1.58	1	0.012	0.003	-0.11	17.05	17.50	1.109	0.013	21.0
LTE Band 42	8	Top Side	5	QPSK	20	50	0	41690	3410	1:1.58	1	0.502	0.183	-0.16	17.00	17.50	1.122	0.563	21.0
LTE Band	8	Top Side	5	QPSK	20	50	50	43490	3590	1:1.58	1	0.495	0.172	-0.18	16.94	17.50	1.138	0.563	21.0

42																			
LTE Band 42	5	Front Side	5	QPSK	20	1	99	42590	3500	1:1.58	1	0.308	0.117	-0.12	15.94	16.00	1.014	0.312	21.0
LTE Band 42	5	Back Side	5	QPSK	20	1	99	42590	3500	1:1.58	1	0.282	0.118	-0.09	15.94	16.00	1.014	0.286	21.0
LTE Band 42	5	Left Side	5	QPSK	20	1	99	42590	3500	1:1.58	1	0.005	0.001	0.16	15.94	16.00	1.014	0.005	21.0
LTE Band 42	5	Right Side	5	QPSK	20	1	99	42590	3500	1:1.58	1	0.585	0.214	0.04	15.94	16.00	1.014	0.593	21.0
LTE Band 42	5	Top Side	5	QPSK	20	1	99	42590	3500	1:1.58	1	0.072	0.030	0.00	15.94	16.00	1.014	0.073	21.0
LTE Band 42	5	Bottom Side	5	QPSK	20	1	99	42590	3500	1:1.58	1	0.007	0.004	0.17	15.94	16.00	1.014	0.007	21.0
LTE Band 42	5	Right Side	5	QPSK	20	1	0	41690	3410	1:1.58	1	0.618	0.233	0.08	15.74	16.00	1.062	0.656	21.0
LTE Band 42	5	Right Side	5	QPSK	20	1	0	43490	3590	1:1.58	1	0.480	0.176	-0.12	15.77	16.00	1.054	0.506	21.0
LTE Band 42	5	Front Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.206	0.079	-0.05	15.85	16.00	1.035	0.213	21.0
LTE Band 42	5	Back Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.239	0.103	-0.10	15.85	16.00	1.035	0.247	21.0
LTE Band 42	5	Left Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.006	0.003	-0.17	15.85	16.00	1.035	0.006	21.0
LTE Band 42	5	Right Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.428	0.171	-0.14	15.85	16.00	1.035	0.443	21.0
LTE Band 42	5	Top Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.048	0.020	0.09	15.85	16.00	1.035	0.050	21.0
LTE Band 42	5	Bottom Side	5	QPSK	20	50	0	42590	3500	1:1.58	1	0.007	0.003	-0.05	15.85	16.00	1.035	0.007	21.0
LTE Band 42	5	Right Side	5	QPSK	20	50	0	41690	3410	1:1.58	1	0.411	0.165	-0.05	15.80	16.00	1.047	0.430	21.0
LTE Band 42	5	Right Side	5	QPSK	20	50	0	43490	3590	1:1.58	1	0.399	0.154	-0.13	15.74	16.00	1.062	0.424	21.0
LTE Band 66(4)	9	Front Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.359	0.175	0.16	17.19	17.50	1.074	0.386	21.0
LTE Band 66(4)	9	Back Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.407	0.199	-0.05	17.19	17.50	1.074	0.437	21.0
LTE Band 66(4)	9	Left Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.019	0.011	0.13	17.19	17.50	1.074	0.020	21.0
LTE Band 66(4)	9	Right Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.054	0.030	-0.02	17.19	17.50	1.074	0.058	21.0
LTE Band 66(4)	9	Top Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.815	0.407	0.03	17.19	17.50	1.074	0.875	21.3
LTE Band 66(4)	9	Bottom Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.078	0.039	-0.18	17.19	17.50	1.074	0.084	21.0
LTE Band 66(4)	9	Top Side	5	QPSK	20	1	50	132072	1720	1:1	1	0.793	0.385	-0.12	17.13	17.50	1.089	0.864	21
LTE Band 66(4)	9	Top Side	5	QPSK	20	1	0	132572	1770	1:1	1	0.799	0.366	-0.04	17.19	17.50	1.074	0.858	21
LTE Band 66(4)	9	Top Side with Repeat	5	QPSK	20	1	0	132322	1745	1:1	1	0.805	0.401	0.03	17.19	17.50	1.074	0.865	21.3
LTE Band 66(4)	9	Front Side	5	QPSK	20	50	25	132322	1745	1:1	1	0.296	0.150	0.01	17.21	17.50	1.069	0.316	21.0
LTE Band 66(4)	9	Back Side	5	QPSK	20	50	25	132322	1745	1:1	1	0.334	0.164	0.17	17.21	17.50	1.069	0.357	21.0
LTE Band 66(4)	9	Left Side	5	QPSK	20	50	25	132322	1745	1:1	1	0.009	0.005	-0.09	17.21	17.50	1.069	0.010	21.0

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LTE Band 66(4)	9	Right Side	5	QPSK	20	50	25	132322	1745	1:1	1	0.042	0.024	-0.08	17.21	17.50	1.069	0.045	21.0
LTE Band 66(4)	9	Top Side	5	QPSK	20	50	25	132322	1745	1:1	1	0.658	0.343	0.08	17.21	17.50	1.069	0.703	21.0
LTE Band 66(4)	9	Bottom Side	5	QPSK	20	50	25	132322	1745	1:1	1	0.063	0.033	0.00	17.21	17.50	1.069	0.067	21.0
LTE Band 66(4)	2	Front Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.410	0.165	0.06	17.44	17.50	1.014	0.416	21.0
LTE Band 66(4)	2	Back Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.470	0.188	0.13	17.44	17.50	1.014	0.477	21.0
LTE Band 66(4)	2	Left Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.022	0.010	-0.09	17.44	17.50	1.014	0.022	21.0
LTE Band 66(4)	2	Right Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.061	0.027	-0.06	17.44	17.50	1.014	0.062	21.0
LTE Band 66(4)	2	Top Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.015	0.007	-0.11	17.44	17.50	1.014	0.015	21.0
LTE Band 66(4)	2	Bottom Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.721	0.333	0.13	17.44	17.50	1.014	0.731	21.0
LTE Band 66(4)	2	Bottom Side	5	QPSK	20	1	50	132072	1720	1:1	1	0.617	0.285	0.19	17.22	17.50	1.067	0.658	21.0
LTE Band 66(4)	2	Bottom Side	5	QPSK	20	1	50	132572	1770	1:1	1	0.522	0.238	0.07	17.16	17.50	1.081	0.564	21.0
LTE Band 66(4)	2	Front Side	5	QPSK	20	50	50	132322	1745	1:1	1	0.253	0.125	-0.07	17.24	17.50	1.062	0.269	21.0
LTE Band 66(4)	2	Back Side	5	QPSK	20	50	50	132322	1745	1:1	1	0.286	0.137	0.12	17.24	17.50	1.062	0.304	21.0
LTE Band 66(4)	2	Left Side	5	QPSK	20	50	50	132322	1745	1:1	1	0.008	0.004	-0.12	17.24	17.50	1.062	0.008	21.0
LTE Band 66(4)	2	Right Side	5	QPSK	20	50	50	132322	1745	1:1	1	0.035	0.019	-0.12	17.24	17.50	1.062	0.037	21.0
LTE Band 66(4)	2	Top Side	5	QPSK	20	50	50	132322	1745	1:1	1	0.009	0.005	0.13	17.24	17.50	1.062	0.010	21.0
LTE Band 66(4)	2	Bottom Side	5	QPSK	20	50	50	132322	1745	1:1	1	0.514	0.236	-0.07	17.24	17.50	1.062	0.546	21.0
LTE Band 66(4)	3	Front Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.538	0.251	-0.17	17.10	17.50	1.096	0.590	21.0
LTE Band 66(4)	3	Back Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.507	0.237	0.01	17.10	17.50	1.096	0.556	21.0
LTE Band 66(4)	3	Left Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.522	0.254	-0.07	17.10	17.50	1.096	0.572	21.0
LTE Band 66(4)	3	Right Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.565	0.281	-0.12	17.10	17.50	1.096	0.619	21.0
LTE Band 66(4)	3	Top Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.016	0.010	-0.11	17.10	17.50	1.096	0.018	21.0
LTE Band 66(4)	3	Bottom Side	5	QPSK	20	1	0	132322	1745	1:1	1	0.028	0.013	-0.13	17.10	17.50	1.096	0.031	21.0
LTE Band 66(4)	3	Front Side	5	QPSK	20	50	0	132322	1745	1:1	1	0.500	0.224	-0.04	17.10	17.50	1.096	0.548	21.0
LTE Band 66(4)	3	Back Side	5	QPSK	20	50	0	132322	1745	1:1	1	0.535	0.250	0.05	17.10	17.50	1.096	0.586	21.0
LTE Band 66(4)	3	Left Side	5	QPSK	20	50	0	132322	1745	1:1	1	0.397	0.192	-0.19	17.10	17.50	1.096	0.435	21.0
LTE Band 66(4)	3	Right Side	5	QPSK	20	50	0	132322	1745	1:1	1	0.450	0.217	-0.16	17.10	17.50	1.096	0.493	21.0
LTE Band 66(4)	3	Top Side	5	QPSK	20	50	0	132322	1745	1:1	1	0.013	0.008	0.01	17.10	17.50	1.096	0.014	21.0
LTE Band 66(4)	3	Bottom Side	5	QPSK	20	50	0	132322	1745	1:1	1	0.022	0.010	-0.11	17.10	17.50	1.096	0.024	21.0

LTE Band 66(4)	3	Right Side	5	QPSK	20	1	0	132072	1720	1:1	1	0.716	0.332	-0.06	17.10	17.50	1.096	0.785	21.0
LTE Band 66(4)	3	Right Side	5	QPSK	20	1	0	132572	1770	1:1	1	0.623	0.286	0.16	17.12	17.50	1.091	0.680	21.0
NR n5	1	Front Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.619	0.357	-0.07	23.78	24.00	1.052	0.651	21.8
NR n5	1	Back Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.566	0.329	-0.15	23.78	24.00	1.052	0.595	21.8
NR n5	1	Left Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.061	0.039	0.18	23.78	24.00	1.052	0.064	21.8
NR n5	1	Right Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.521	0.218	-0.03	23.78	24.00	1.052	0.548	21.8
NR n5	1	Top Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.222	0.094	0.02	23.78	24.00	1.052	0.234	21.8
NR n5	1	Bottom Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.486	0.236	-0.10	23.78	24.00	1.052	0.511	21.8
NR n5	1	Front Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.550	0.297	0.02	23.71	24.00	1.069	0.588	21.8
NR n5	1	Back Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.462	0.267	-0.17	23.71	24.00	1.069	0.494	21.8
NR n5	1	Left Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.046	0.029	-0.03	23.71	24.00	1.069	0.049	21.8
NR n5	1	Right Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.423	0.183	-0.13	23.71	24.00	1.069	0.452	21.8
NR n5	1	Top Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.229	0.119	-0.02	23.71	24.00	1.069	0.245	21.8
NR n5	1	Bottom Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.445	0.192	0.18	23.71	24.00	1.069	0.476	21.8
NR n5	3	Front Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.689	0.345	-0.09	21.30	21.50	1.047	0.721	21.8
NR n5	3	Back Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.653	0.336	0.05	21.30	21.50	1.047	0.684	21.8
NR n5	3	Left Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.076	0.034	0.02	21.30	21.50	1.047	0.080	21.8
NR n5	3	Right Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.691	0.310	-0.06	21.30	21.50	1.047	0.723	22.1
NR n5	3	Top Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.041	0.023	0.03	21.30	21.50	1.047	0.043	21.8
NR n5	3	Bottom Side	5	QPSK	20	1	1	167300	836.5	1:1	1	0.058	0.026	-0.07	21.30	21.50	1.047	0.061	21.8
NR n5	3	Front Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.544	0.270	0.12	21.05	21.50	1.109	0.603	21.8
NR n5	3	Back Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.570	0.286	-0.05	21.05	21.50	1.109	0.632	21.8
NR n5	3	Left Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.058	0.026	0.16	21.05	21.50	1.109	0.064	21.8
NR n5	3	Right Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.529	0.237	-0.14	21.05	21.50	1.109	0.587	21.8
NR n5	3	Top Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.031	0.018	0.00	21.05	21.50	1.109	0.034	21.8
NR n5	3	Bottom Side	5	QPSK	20	50	28	167300	836.5	1:1	1	0.044	0.020	-0.15	21.05	21.50	1.109	0.049	21.8
NR n7	9	Front Side	5	QPSK	20	1	1	507000	2535	1:1	1	0.408	0.240	-0.06	16.08	16.50	1.102	0.450	21.0
NR n7	9	Back Side	5	QPSK	20	1	1	507000	2535	1:1	1	0.522	0.283	0.08	16.08	16.50	1.102	0.575	21.0
NR n7	9	Left Side	5	QPSK	20	1	1	507000	2535	1:1	1	0.438	0.217	-0.12	16.08	16.50	1.102	0.483	21.0
NR n7	9	Right Side	5	QPSK	20	1	1	507000	2535	1:1	1	0.208	0.100	0.06	16.08	16.50	1.102	0.229	21.0
NR n7	9	Top Side	5	QPSK	20	1	1	507000	2535	1:1	1	0.697	0.329	-0.07	16.08	16.50	1.102	0.768	22.1
NR n7	9	Bottom Side	5	QPSK	20	1	1	507000	2535	1:1	1	0.066	0.031	0.18	16.08	16.50	1.102	0.073	21.0
NR n7	9	Top Side	5	QPSK	20	1	1	502000	2510	1:1	1	0.681	0.322	-0.18	16.07	16.50	1.104	0.752	21
NR n7	9	Top Side	5	QPSK	20	1	1	512000	2560	1:1	1	0.563	0.290	-0.16	16.04	16.50	1.112	0.626	21
NR n7	9	Front	5	QPSK	20	50	28	507000	2535	1:1	1	0.393	0.242	-0.18	15.88	16.50	1.153	0.453	21.0

		Side																	
NR n7	9	Back Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.411	0.291	0.15	15.88	16.50	1.153	0.474	21.0
NR n7	9	Left Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.011	0.006	0.16	15.88	16.50	1.153	0.013	21.0
NR n7	9	Right Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.189	0.093	-0.17	15.88	16.50	1.153	0.218	21.0
NR n7	9	Top Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.607	0.296	-0.09	15.88	16.50	1.153	0.700	21.0
NR n7	9	Bottom Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.058	0.028	-0.13	15.88	16.50	1.153	0.067	21.0
NR n7	2	Front Side	5	QPSK	20	1	104	507000	2535	1:1	1	0.573	0.225	-0.03	17.06	17.00	0.986	0.565	21.0
NR n7	2	Back Side	5	QPSK	20	1	104	507000	2535	1:1	1	0.549	0.239	-0.17	17.06	17.00	0.986	0.541	21.0
NR n7	2	Left Side	5	QPSK	20	1	104	507000	2535	1:1	1	0.033	0.017	0.11	17.06	17.00	0.986	0.033	21.0
NR n7	2	Right Side	5	QPSK	20	1	104	507000	2535	1:1	1	0.057	0.027	0.01	17.06	17.00	0.986	0.056	21.0
NR n7	2	Top Side	5	QPSK	20	1	104	507000	2535	1:1	1	0.028	0.013	-0.19	17.06	17.00	0.986	0.028	21.0
NR n7	2	Bottom Side	5	QPSK	20	1	104	507000	2535	1:1	1	0.677	0.273	-0.02	17.06	17.00	0.986	0.668	21.0
NR n7	2	Bottom Side	5	QPSK	20	1	1	502000	2510	1:1	1	0.601	0.256	-0.17	16.83	17.00	1.040	0.625	21
NR n7	2	Bottom Side	5	QPSK	20	1	1	512000	2560	1:1	1	0.681	0.287	0.00	16.85	17.00	1.035	0.705	21
NR n7	2	Front Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.414	0.170	-0.13	16.78	17.00	1.052	0.436	21.0
NR n7	2	Back Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.434	0.186	0.12	16.78	17.00	1.052	0.457	21.0
NR n7	2	Left Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.026	0.013	-0.16	16.78	17.00	1.052	0.027	21.0
NR n7	2	Right Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.043	0.020	-0.08	16.78	17.00	1.052	0.045	21.0
NR n7	2	Top Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.019	0.009	-0.16	16.78	17.00	1.052	0.020	21.0
NR n7	2	Bottom Side	5	QPSK	20	50	28	507000	2535	1:1	1	0.533	0.225	0.15	16.78	17.00	1.052	0.561	21.0
NR n25(n2)	9	Front Side	5	QPSK	20	1	104	376500	1882.5	1:1	1	0.380	0.211	0.12	19.23	19.50	1.064	0.404	21.6
NR n25(n2)	9	Back Side	5	QPSK	20	1	104	376500	1882.5	1:1	1	0.454	0.254	0.17	19.23	19.50	1.064	0.483	21.6
NR n25(n2)	9	Left Side	5	QPSK	20	1	104	376500	1882.5	1:1	1	0.022	0.012	0.05	19.23	19.50	1.064	0.023	21.6
NR n25(n2)	9	Right Side	5	QPSK	20	1	104	376500	1882.5	1:1	1	0.219	0.104	-0.07	19.23	19.50	1.064	0.233	21.6
NR n25(n2)	9	Top Side	5	QPSK	20	1	104	376500	1882.5	1:1	1	0.722	0.335	0.18	19.23	19.50	1.064	0.768	21.6
NR n25(n2)	9	Bottom Side	5	QPSK	20	1	104	376500	1882.5	1:1	1	0.026	0.013	-0.09	19.23	19.50	1.064	0.028	21.6
NR n25(n2)	9	Top Side	5	QPSK	20	1	104	372000	1860	1:1	1	0.603	0.289	-0.16	19.12	19.50	1.091	0.658	21.6
NR n25(n2)	9	Top Side	5	QPSK	20	1	104	381000	1905	1:1	1	0.688	0.325	-0.19	19.21	19.50	1.069	0.735	21.6
NR n25(n2)	9	Front Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.353	0.192	-0.16	19.05	19.50	1.109	0.391	21.6
NR n25(n2)	9	Back Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.419	0.230	0.03	19.05	19.50	1.109	0.465	21.6
NR n25(n2)	9	Left Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.016	0.010	-0.13	19.05	19.50	1.109	0.018	21.6
NR n25(n2)	9	Right Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.163	0.077	-0.12	19.05	19.50	1.109	0.181	21.6

NR n25(n2)	9	Top Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.550	0.267	0.11	19.05	19.50	1.109	0.610	21.6
NR n25(n2)	9	Bottom Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.018	0.009	-0.05	19.05	19.50	1.109	0.020	21.6
NR n25(n2)	2	Front Side	5	QPSK	20	1	1	376500	1882.5	1:1	1	0.386	0.175	-0.17	18.40	18.50	1.023	0.395	21.6
NR n25(n2)	2	Back Side	5	QPSK	20	1	1	376500	1882.5	1:1	1	0.401	0.183	-0.18	18.40	18.50	1.023	0.410	21.6
NR n25(n2)	2	Left Side	5	QPSK	20	1	1	376500	1882.5	1:1	1	0.015	0.008	0.14	18.40	18.50	1.023	0.015	21.6
NR n25(n2)	2	Right Side	5	QPSK	20	1	1	376500	1882.5	1:1	1	0.061	0.030	0.11	18.40	18.50	1.023	0.062	21.6
NR n25(n2)	2	Top Side	5	QPSK	20	1	1	376500	1882.5	1:1	1	0.013	0.006	-0.14	18.40	18.50	1.023	0.013	21.6
NR n25(n2)	2	Bottom Side	5	QPSK	20	1	1	376500	1882.5	1:1	1	0.765	0.351	-0.02	18.40	18.50	1.023	0.783	21.3
NR n25(n2)	2	Bottom Side	5	QPSK	20	1	1	372000	1860	1:1	1	0.645	0.296	-0.01	18.33	18.50	1.040	0.671	21.6
NR n25(n2)	2	Bottom Side	5	QPSK	20	1	1	381000	1905	1:1	1	0.714	0.322	-0.01	18.38	18.50	1.028	0.734	21.6
NR n25(n2)	2	Front Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.340	0.160	0.13	18.03	18.50	1.114	0.379	21.6
NR n25(n2)	2	Back Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.364	0.173	-0.13	18.03	18.50	1.114	0.405	21.6
NR n25(n2)	2	Left Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.013	0.007	0.05	18.03	18.50	1.114	0.014	21.6
NR n25(n2)	2	Right Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.049	0.025	0.16	18.03	18.50	1.114	0.055	21.6
NR n25(n2)	2	Top Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.012	0.006	0.08	18.03	18.50	1.114	0.013	21.6
NR n25(n2)	2	Bottom Side	5	QPSK	20	50	28	376500	1882.5	1:1	1	0.687	0.300	0.14	18.03	18.50	1.114	0.765	21.6
NR n40	9	Front Side	5	QPSK	80	1	1	470000	2350	1:1	1	0.263	0.149	-0.11	16.38	16.50	1.028	0.270	21.0
NR n40	9	Back Side	5	QPSK	80	1	1	470000	2350	1:1	1	0.285	0.158	-0.04	16.38	16.50	1.028	0.293	21.0
NR n40	9	Left Side	5	QPSK	80	1	1	470000	2350	1:1	1	0.012	0.007	0.06	16.38	16.50	1.028	0.012	21.0
NR n40	9	Right Side	5	QPSK	80	1	1	470000	2350	1:1	1	0.165	0.082	0.13	16.38	16.50	1.028	0.170	21.0
NR n40	9	Top Side	5	QPSK	80	1	1	470000	2350	1:1	1	0.456	0.205	-0.10	16.38	16.50	1.028	0.469	22.1
NR n40	9	Bottom Side	5	QPSK	80	1	1	470000	2350	1:1	1	0.043	0.019	-0.04	16.38	16.50	1.028	0.044	21.0
NR n40	9	Front Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.240	0.137	-0.15	16.21	16.50	1.069	0.257	21.0
NR n40	9	Back Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.265	0.144	0.09	16.21	16.50	1.069	0.283	21.0
NR n40	9	Left Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.009	0.005	-0.07	16.21	16.50	1.069	0.010	21.0
NR n40	9	Right Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.127	0.060	0.09	16.21	16.50	1.069	0.136	21.0
NR n40	9	Top Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.351	0.149	0.05	16.21	16.50	1.069	0.375	21.0
NR n40	9	Bottom Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.033	0.014	-0.08	16.21	16.50	1.069	0.035	21.0
NR n40	2	Front Side	5	QPSK	80	1	215	470000	2350	1:1	1	0.108	0.046	0.13	16.40	16.50	1.023	0.110	21.0
NR n40	2	Back Side	5	QPSK	80	1	215	470000	2350	1:1	1	0.125	0.050	-0.08	16.40	16.50	1.023	0.128	21.0
NR n40	2	Left Side	5	QPSK	80	1	215	470000	2350	1:1	1	0.009	0.003	-0.03	16.40	16.50	1.023	0.009	21.0

NR n40	2	Right Side	5	QPSK	80	1	215	470000	2350	1:1	1	0.014	0.006	0.08	16.40	16.50	1.023	0.014	21.0
NR n40	2	Top Side	5	QPSK	80	1	215	470000	2350	1:1	1	0.012	0.004	0.16	16.40	16.50	1.023	0.012	21.0
NR n40	2	Bottom Side	5	QPSK	80	1	215	470000	2350	1:1	1	0.433	0.198	0.10	16.40	16.50	1.023	0.443	21.0
NR n40	2	Front Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.106	0.043	-0.04	16.08	16.50	1.102	0.117	21.0
NR n40	2	Back Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.123	0.046	0.06	16.08	16.50	1.102	0.136	21.0
NR n40	2	Left Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.007	0.003	-0.11	16.08	16.50	1.102	0.008	21.0
NR n40	2	Right Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.013	0.006	-0.04	16.08	16.50	1.102	0.014	21.0
NR n40	2	Top Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.011	0.005	0.15	16.08	16.50	1.102	0.012	21.0
NR n40	2	Bottom Side	5	QPSK	80	108	55	470000	2350	1:1	1	0.411	0.185	-0.05	16.08	16.50	1.102	0.453	21.0
NR n41(n38)	9	Front Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.213	0.108	0.12	14.16	14.50	1.081	0.230	21.5
NR n41(n38)	9	Back Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.363	0.158	0.11	14.16	14.50	1.081	0.392	21.5
NR n41(n38)	9	Left Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.006	0.003	-0.14	14.16	14.50	1.081	0.006	21.5
NR n41(n38)	9	Right Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.123	0.061	-0.06	14.16	14.50	1.081	0.133	21.5
NR n41(n38)	9	Top Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.689	0.199	0.04	14.16	14.50	1.081	0.745	22.1
NR n41(n38)	9	Bottom Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.041	0.019	-0.18	14.16	14.50	1.081	0.044	21.5
NR n41(n38)	9	Front Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.169	0.095	-0.19	14.08	14.50	1.102	0.186	21.5
NR n41(n38)	9	Back Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.320	0.148	0.02	14.08	14.50	1.102	0.353	21.5
NR n41(n38)	9	Left Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.005	0.003	0.15	14.08	14.50	1.102	0.006	21.5
NR n41(n38)	9	Right Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.093	0.049	-0.05	14.08	14.50	1.102	0.102	21.5
NR n41(n38)	9	Top Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.314	0.159	-0.06	14.08	14.50	1.102	0.346	21.5
NR n41(n38)	9	Bottom Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.030	0.015	-0.16	14.08	14.50	1.102	0.033	21.5
NR n41(n38)	2	Front Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.319	0.103	-0.14	15.36	15.50	1.033	0.330	21.5
NR n41(n38)	2	Back Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.322	0.123	0.09	15.36	15.50	1.033	0.333	21.5
NR n41(n38)	2	Left Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.014	0.004	0.02	15.36	15.50	1.033	0.014	21.5
NR n41(n38)	2	Right Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.014	0.008	0.06	15.36	15.50	1.033	0.014	21.5
NR n41(n38)	2	Top Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.020	0.009	-0.12	15.36	15.50	1.033	0.021	21.5
NR n41(n38)	2	Bottom Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.314	0.130	0.07	15.36	15.50	1.033	0.324	21.5
NR n41(n38)	2	Front Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.203	0.084	0.12	15.22	15.50	1.067	0.217	21.5
NR n41(n38)	2	Back Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.213	0.082	-0.11	15.22	15.50	1.067	0.227	21.5
NR n41(n38)	2	Left Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.011	0.003	-0.04	15.22	15.50	1.067	0.012	21.5
NR	2	Right	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.011	0.005	-0.18	15.22	15.50	1.067	0.012	21.5

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n41(n38)		Side																	
NR n41(n38)	2	Top Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.015	0.007	-0.06	15.22	15.50	1.067	0.016	21.5
NR n41(n38)	2	Bottom Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.316	0.127	-0.17	15.22	15.50	1.067	0.337	21.5
NR n41(n38)	3	Front Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.568	0.236	-0.01	18.15	18.50	1.084	0.616	21.5
NR n41(n38)	3	Back Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.441	0.201	-0.07	18.15	18.50	1.084	0.478	21.5
NR n41(n38)	3	Left Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.005	0.001	-0.03	18.15	18.50	1.084	0.005	21.5
NR n41(n38)	3	Right Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.627	0.265	0.15	18.15	18.50	1.084	0.680	21.5
NR n41(n38)	3	Top Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.084	0.038	-0.02	18.15	18.50	1.084	0.091	21.5
NR n41(n38)	3	Bottom Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.052	0.023	-0.18	18.15	18.50	1.084	0.056	21.5
NR n41(n38)	3	Front Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.384	0.167	-0.18	17.92	18.50	1.143	0.439	21.5
NR n41(n38)	3	Back Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.305	0.110	-0.17	17.92	18.50	1.143	0.349	21.5
NR n41(n38)	3	Left Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.003	0.001	-0.14	17.92	18.50	1.143	0.003	21.5
NR n41(n38)	3	Right Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.404	0.181	0.01	17.92	18.50	1.143	0.462	21.5
NR n41(n38)	3	Top Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.069	0.031	-0.01	17.92	18.50	1.143	0.079	21.5
NR n41(n38)	3	Bottom Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.034	0.015	-0.04	17.92	18.50	1.143	0.039	21.5
NR n41(n38)	1	Front Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.462	0.212	-0.13	17.82	18.00	1.042	0.481	21.5
NR n41(n38)	1	Back Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.357	0.172	0.16	17.82	18.00	1.042	0.372	21.5
NR n41(n38)	1	Left Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.013	0.007	0.09	17.82	18.00	1.042	0.014	21.5
NR n41(n38)	1	Right Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.677	0.278	-0.11	17.82	18.00	1.042	0.705	21.5
NR n41(n38)	1	Top Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.013	0.006	-0.07	17.82	18.00	1.042	0.014	21.5
NR n41(n38)	1	Bottom Side	5	QPSK	100	1	1	518598	2592.99	1:1	1	0.112	0.048	-0.13	17.82	18.00	1.042	0.117	21.5
NR n41(n38)	1	Front Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.386	0.162	-0.14	17.88	18.00	1.028	0.397	21.5
NR n41(n38)	1	Back Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.299	0.139	-0.14	17.88	18.00	1.028	0.307	21.5
NR n41(n38)	1	Left Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.014	0.007	0.08	17.88	18.00	1.028	0.014	21.5
NR n41(n38)	1	Right Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.487	0.230	0.15	17.88	18.00	1.028	0.501	21.5
NR n41(n38)	1	Top Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.010	0.003	-0.02	17.88	18.00	1.028	0.010	21.5
NR n41(n38)	1	Bottom Side	5	QPSK	100	135	69	518598	2592.99	1:1	1	0.109	0.047	-0.17	17.88	18.00	1.028	0.112	21.5
NR n66	9	Front Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.364	0.177	-0.07	18.05	18.50	1.109	0.404	21.0
NR n66	9	Back Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.454	0.258	-0.11	18.05	18.50	1.109	0.503	21.0
NR n66	9	Left Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.135	0.008	0.04	18.05	18.50	1.109	0.150	21.0

NR n66	9	Right Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.235	0.107	-0.02	18.05	18.50	1.109	0.261	21.0
NR n66	9	Top Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.609	0.298	0.18	18.05	18.50	1.109	0.675	21.0
NR n66	9	Bottom Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.073	0.036	0.06	18.05	18.50	1.109	0.081	21.0
NR n66	9	Front Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.333	0.159	0.06	18.04	18.50	1.112	0.370	21.0
NR n66	9	Back Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.378	0.189	0.03	18.04	18.50	1.112	0.420	21.0
NR n66	9	Left Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.012	0.007	-0.01	18.04	18.50	1.112	0.013	21.0
NR n66	9	Right Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.171	0.079	-0.02	18.04	18.50	1.112	0.190	21.0
NR n66	9	Top Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.580	0.273	0.01	18.04	18.50	1.112	0.645	21.0
NR n66	9	Bottom Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.070	0.033	0.00	18.04	18.50	1.112	0.078	21.0
NR n66	2	Front Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.083	0.041	-0.19	19.20	19.50	1.072	0.089	21.0
NR n66	2	Back Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.091	0.044	-0.08	19.20	19.50	1.072	0.098	21.0
NR n66	2	Left Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.009	0.005	0.15	19.20	19.50	1.072	0.010	21.0
NR n66	2	Right Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.006	0.003	-0.01	19.20	19.50	1.072	0.006	21.0
NR n66	2	Top Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.004	0.002	0.10	19.20	19.50	1.072	0.004	21.0
NR n66	2	Bottom Side	5	QPSK	20	1	1	349000	1745	1:1	1	0.560	0.266	0.06	19.20	19.50	1.072	0.600	21.0
NR n66	2	Bottom Side	5	QPSK	20	1	1	344000	1720	1:1	1	0.533	0.248	0.00	19.14	19.50	1.086	0.579	21.0
NR n66	2	Bottom Side	5	QPSK	20	1	1	354000	1770	1:1	1	0.542	0.257	0.13	19.14	19.50	1.086	0.589	21.0
NR n66	2	Front Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.090	0.043	0.08	19.14	19.50	1.086	0.098	21.0
NR n66	2	Back Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.077	0.032	0.19	19.14	19.50	1.086	0.084	21.0
NR n66	2	Left Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.008	0.005	-0.18	19.14	19.50	1.086	0.009	21.0
NR n66	2	Right Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.006	0.003	-0.03	19.14	19.50	1.086	0.007	21.0
NR n66	2	Top Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.004	0.001	-0.07	19.14	19.50	1.086	0.004	21.0
NR n66	2	Bottom Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.522	0.242	-0.09	19.14	19.50	1.086	0.567	21.0
NR n66	3	Front Side	5	QPSK	20	1	53	349000	1745	1:1	1	0.084	0.035	-0.15	17.93	18.00	1.016	0.085	21.0
NR n66	3	Back Side	5	QPSK	20	1	53	349000	1745	1:1	1	0.164	0.063	0.04	17.93	18.00	1.016	0.167	21.0
NR n66	3	Left Side	5	QPSK	20	1	53	349000	1745	1:1	1	0.009	0.004	0.01	17.93	18.00	1.016	0.009	21.0
NR n66	3	Right Side	5	QPSK	20	1	53	349000	1745	1:1	1	0.642	0.256	0.15	17.93	18.00	1.016	0.652	21.0
NR n66	3	Top Side	5	QPSK	20	1	53	349000	1745	1:1	1	0.055	0.027	0.03	17.93	18.00	1.016	0.056	21.0
NR n66	3	Bottom Side	5	QPSK	20	1	53	349000	1745	1:1	1	0.009	0.002	0.01	17.93	18.00	1.016	0.009	21.0
NR n66	3	Right Side	5	QPSK	20	1	53	344000	1720	1:1	1	0.663	0.307	0.00	17.86	18.00	1.033	0.685	21.3
NR n66	3	Right Side	5	QPSK	20	1	53	354000	1770	1:1	1	0.656	0.292	0.12	17.89	18.00	1.026	0.673	21.0
NR n66	3	Front Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.042	0.021	-0.02	17.77	18.00	1.054	0.044	21.0
NR n66	3	Back Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.332	0.170	-0.04	17.77	18.00	1.054	0.350	21.0

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NR n66	3	Left Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.009	0.005	0.09	17.77	18.00	1.054	0.009	21.0
NR n66	3	Right Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.533	0.231	-0.08	17.77	18.00	1.054	0.562	21.0
NR n66	3	Top Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.062	0.032	-0.11	17.77	18.00	1.054	0.065	21.0
NR n66	3	Bottom Side	5	QPSK	20	50	28	349000	1745	1:1	1	0.008	0.002	0.07	17.77	18.00	1.054	0.008	21.0
NR n77 (3450-3550 n78)	8	Front Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.261	0.132	-0.08	19.40	19.50	1.023	0.267	22.3
NR n77 (3450-3550 n78)	8	Back Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.342	0.178	-0.08	19.40	19.50	1.023	0.350	22.3
NR n77 (3450-3550 n78)	8	Left Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.012	0.008	-0.08	19.40	19.50	1.023	0.012	22.3
NR n77 (3450-3550 n78)	8	Right Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.007	0.003	-0.08	19.40	19.50	1.023	0.007	22.3
NR n77 (3450-3550 n78)	8	Top Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.653	0.246	0.04	19.40	19.50	1.023	0.668	21.3
NR n77 (3450-3550 n78)	8	Bottom Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.004	0.002	-0.06	19.40	19.50	1.023	0.004	22.3
NR n77 (3450-3550 n78)	8	Front Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.279	0.119	0.05	19.31	19.50	1.045	0.292	22.3
NR n77 (3450-3550 n78)	8	Back Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.315	0.127	0.17	19.31	19.50	1.045	0.329	22.3
NR n77 (3450-3550 n78)	8	Left Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.014	0.008	-0.15	19.31	19.50	1.045	0.015	22.3
NR n77 (3450-3550 n78)	8	Right Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.008	0.003	0.00	19.31	19.50	1.045	0.008	22.3
NR n77 (3450-3550 n78)	8	Top Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.587	0.218	0.07	19.31	19.50	1.045	0.613	22.3
NR n77 (3450-3550 n78)	8	Bottom Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.004	0.002	-0.18	19.31	19.50	1.045	0.004	22.3
NR n77 (3450-3550 n78)	5	Front Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.193	0.060	0.02	14.40	14.50	1.023	0.197	22.3
NR n77 (3450-3550 n78)	5	Back Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.181	0.062	0.18	14.40	14.50	1.023	0.185	22.3
NR n77 (3450-3550 n78)	5	Left Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.004	0.001	-0.18	14.40	14.50	1.023	0.004	22.3
NR n77 (3450-3550 n78)	5	Right Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.532	0.210	-0.17	14.40	14.50	1.023	0.544	22.3
NR n77 (3450-3550 n78)	5	Top Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.081	0.034	0.08	14.40	14.50	1.023	0.083	22.3
NR n77	5	Bottom	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.004	0.002	0.07	14.40	14.50	1.023	0.004	22.3

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(3450-3550 n78)		Side																	
NR n77 (3450-3550 n78)	5	Front Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.252	0.106	-0.14	14.36	14.50	1.033	0.260	22.3
NR n77 (3450-3550 n78)	5	Back Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.258	0.086	0.19	14.36	14.50	1.033	0.267	22.3
NR n77 (3450-3550 n78)	5	Left Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.003	0.001	-0.17	14.36	14.50	1.033	0.003	22.3
NR n77 (3450-3550 n78)	5	Right Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.515	0.195	0.02	14.36	14.50	1.033	0.532	22.3
NR n77 (3450-3550 n78)	5	Top Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.075	0.029	0.19	14.36	14.50	1.033	0.077	22.3
NR n77 (3450-3550 n78)	5	Bottom Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.005	0.003	0.11	14.36	14.50	1.033	0.005	22.3
NR n77 (3450-3550 n78)	10	Front Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.110	0.046	-0.08	13.06	13.50	1.107	0.122	22.3
NR n77 (3450-3550 n78)	10	Back Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.103	0.044	0.09	13.06	13.50	1.107	0.114	22.3
NR n77 (3450-3550 n78)	10	Left Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.007	0.002	0.19	13.06	13.50	1.107	0.008	22.3
NR n77 (3450-3550 n78)	10	Right Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.041	0.014	-0.13	13.06	13.50	1.107	0.045	22.3
NR n77 (3450-3550 n78)	10	Top Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.203	0.078	-0.15	13.06	13.50	1.107	0.225	22.3
NR n77 (3450-3550 n78)	10	Bottom Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.002	0.001	-0.18	13.06	13.50	1.107	0.002	22.3
NR n77 (3450-3550 n78)	10	Front Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.118	0.050	0.11	13.01	13.50	1.119	0.132	22.3
NR n77 (3450-3550 n78)	10	Back Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.156	0.062	-0.02	13.01	13.50	1.119	0.175	22.3
NR n77 (3450-3550 n78)	10	Left Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.006	0.002	0.18	13.01	13.50	1.119	0.007	22.3
NR n77 (3450-3550 n78)	10	Right Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.036	0.015	-0.15	13.01	13.50	1.119	0.040	22.3
NR n77 (3450-3550 n78)	10	Top Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.257	0.098	-0.07	13.01	13.50	1.119	0.288	22.3
NR n77 (3450-3550 n78)	10	Bottom Side	5	QPSK	100	135	69	633334	3500.01	1:1	1	0.002	0.001	-0.03	13.01	13.50	1.119	0.002	22.3
NR n77 (3450-	2	Front Side	5	QPSK	100	1	1	633334	3500.01	1:1	1	0.152	0.054	0.14	16.68	17.00	1.076	0.164	22.3