

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: ThirdEye Gen Inc
300 Alexander Park Dr, Princeton, NJ 08540 United States
Product Name: ThirdEye X2
Brand Name: ThirdEye
Model No.: X2 MR Glasses
Model Difference: N/A
Report Number: E2/2019/C0008
FCC ID: 2ANDNX2
FCC Rule Part: §15.407, Cat: NII
Issue Date: Jan. 09, 2020
Date of Test: Dec. 06, 2019 ~ Dec. 24, 2019
Date of EUT Received: Dec. 06, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Revision	Description	Issue Date	Remark
Rev.00	Original.	Jan. 09, 2020	Revised By: Karen Huang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	ThirdEye X2	
Brand Name:	ThirdEye	
Model No.:	X2 MR Glasses	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	5V / 9V / 12V from AC/DC Switching Adapter or 5V from USB Port	
	Adapter:	Model No.: DSA-24QFA FUS A, Supplier: DEE VAN ENTERPRISE CO., LTD.
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only	
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 –173.3Mbps 802.11 ac_40MHz: 13.5 –400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps	
Antenna Designation:	Monopole Antenna, WiFi 1 Gain: 4.5dBi (5150~5250) / Gain: 4.5dBi (5250~5350) Gain: 2.7dBi (5470~5725) / Gain: 1.0dBi (5725~5850) WiFi 2 Gain: 0.5dBi (5150~5250) / Gain: 0.5dBi (5250~5350) Gain: 0.8dBi (5470~5725) / Gain: 1.1dBi (5725~5850)	

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1.2 FCC WLAN 5GHz:

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)	Modulation Technology
a	5150~5250	4	10.99	OFDM
	5250~5350	4	10.99	
	5470~5725	12	10.97	
	5725~5850	5	10.99	
n_HT ac_VHT 20M	5150~5250	4	HT: 10.99	OFDM
	5250~5350	4	HT: 10.99	
	5470~5725	12	HT: 10.98	
	5725~5850	5	HT: 10.97	
n_HT ac_VHT 40M	5150~5250	2	HT: 10.95	OFDM
	5250~5350	2	HT: 10.98	
	5470~5725	5	HT: 10.98	
	5725~5850	2	HT: 10.93	
ac_VHT 80M	5150~5250	1	10.96	OFDM
	5250~5350	1	10.93	
	5470~5725	2	10.98	
	5725~5850	1	10.87	

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0002

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items, the offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) & Radiated Emission Configuration



Fig 2-2 Conduction (AC Power Line) Emission

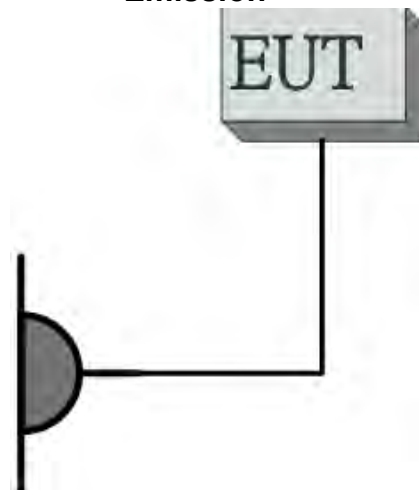


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	T460p	P0001013	N/A	N/A
3.	Notebook	Lenovo	L440	P0000367	N/A	N/A
4.	Notebook	Lenovo	T440p	P0000661	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 802.11a/n/ac operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5745 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	Ch0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5290	58	58			
	5530~5690	106 to 138	122			
	5775	155	155			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46		MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134,142			
	5510~5710	102 to 142				
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 122	106,122,138			
	5530~5690	106 to 138				
	5775	155	155			

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
802.11n_HT20	5745~5825	149 to 165	149,157,165		MCS8	MIMO
	5180~5240	36 to 48	36,44,48			
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
802.11n_HT40	5500~5720	100 to 144	144		MCS8	MIMO
	5745~5825	149 to 165	149,157,165			
	5190~5230	38 to 46	38,46			
	5270~5310	54 to 62	54,62			
802.11ac_VHT80	5510~5670	102 to 134	102,110,134,142		MCS0	MIMO
	5510~5710	102 to 142				
	5755~5795	151 to 159	151,159			
	5210	42	42			
802.11ac_VHT80	5290	58	58		MCS0	MIMO
	5530~5610	106 to 122	106,122,138			
	5530~5690	106 to 138				
	5775	155	155			

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	TESEQ	NNB 51	36076	02/13/2019	02/12/2020
EMI Test Receiver	R&S	ESCI	101342	04/26/2019	04/25/2020

6.3 EUT Setup

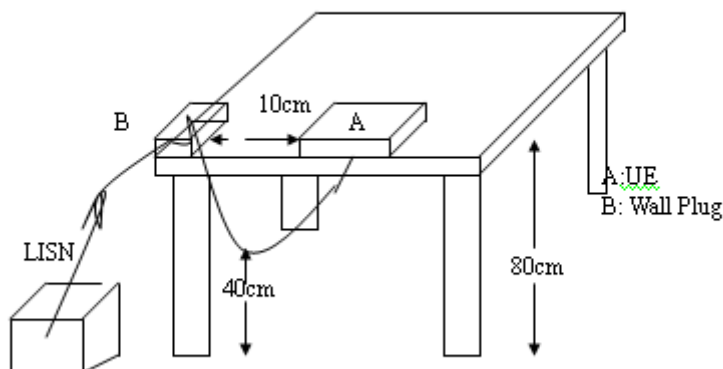
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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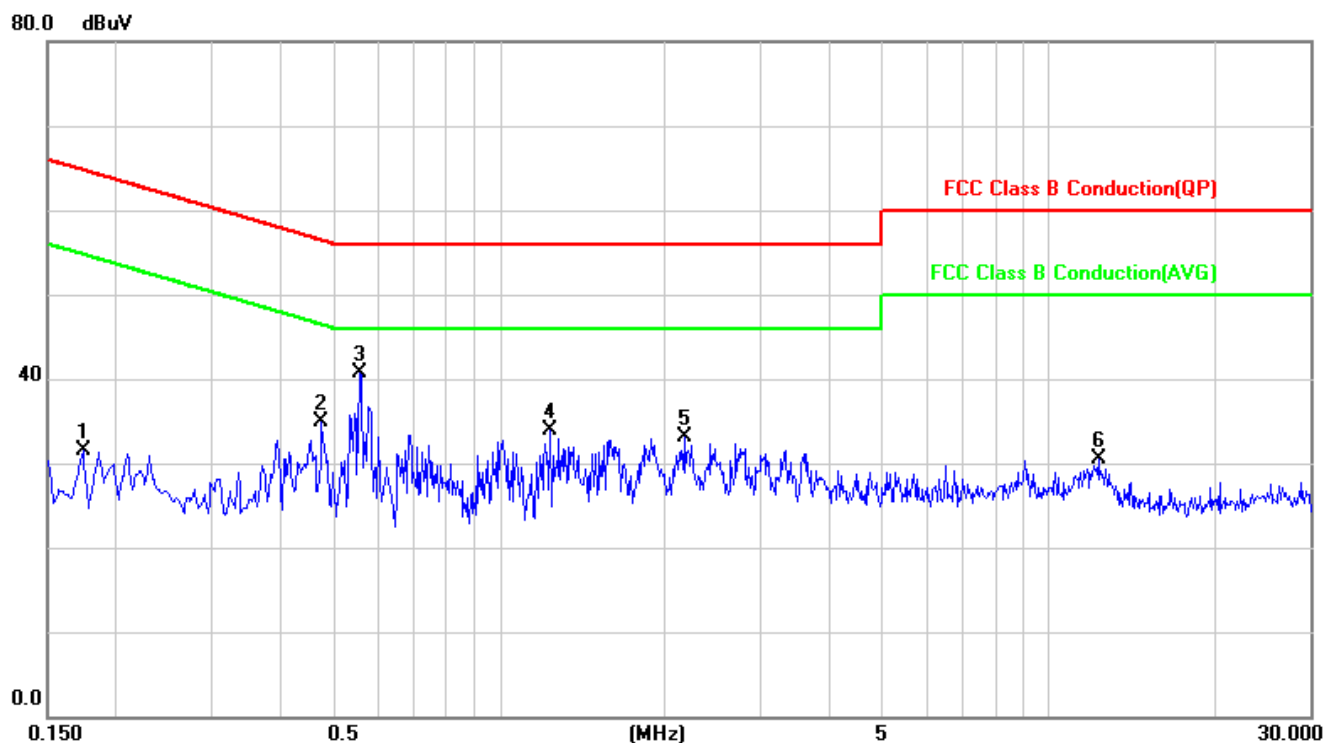
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/12/24
Line:	L1	Temp.(°C)/Hum.(%):	23.2(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Kailin
Note:	E2/2019/C0008		



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measure- ment (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1740	12.06	19.51	31.57	64.77	-33.20	peak	
2		0.4740	15.14	19.74	34.88	56.44	-21.56	peak	
3	*	0.5580	20.86	19.76	40.62	56.00	-15.38	peak	
4		1.2380	13.99	19.82	33.81	56.00	-22.19	peak	
5		2.1700	13.08	19.97	33.05	56.00	-22.95	peak	
6		12.3780	10.58	19.98	30.56	60.00	-29.44	peak	

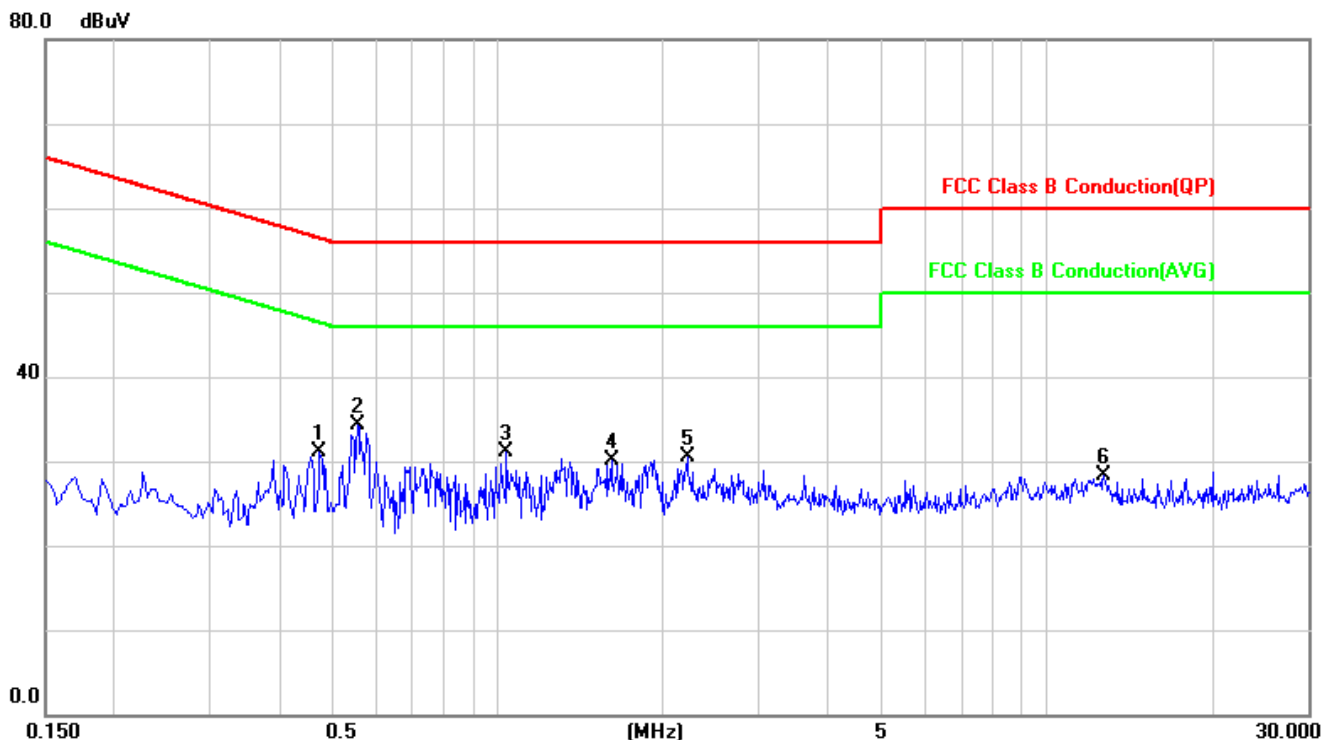
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Description: Operation
Line: N
Test Voltage: AC 120V/60Hz
Note: E2/2019/C0008

Date: 2019/12/24
Temp.(°C)/Hum.(%): 23.2(°C)/65%
Test By: Kailin



No.	Mk.	Freq.	Reading	Factor	Measure- ment	Limit	Over	Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.4740	11.17	19.95	31.12	56.44	-25.32	peak	
2	*	0.5580	14.27	19.97	34.24	56.00	-21.76	peak	
3		1.0380	11.07	19.99	31.06	56.00	-24.94	peak	
4		1.6140	10.00	20.11	30.11	56.00	-25.89	peak	
5		2.2180	10.36	20.19	30.55	56.00	-25.45	peak	
6		12.7420	8.16	20.21	28.37	60.00	-31.63	peak	

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7 DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.00	0.09	0.49	1.00
802.11n_20	96.41	0.16	1.01	2.00
802.11ac_20	98.17	0.08	0.52	1.00
802.11n_40	93.23	0.30	2.02	3.00
802.11ac_40	96.25	0.17	1.05	2.00
802.11ac_80	92.66	0.33	2.16	3.00

Duty Cycle Factor: $10 * \log(1/0.98) = 0.09$

Duty Cycle Factor: $10 * \log(1/0.9641) = 0.16$

Duty Cycle Factor: $10 * \log(1/0.9817) = 0.08$

Duty Cycle Factor: $10 * \log(1/0.9323) = 0.3$

Duty Cycle Factor: $10 * \log(1/0.9625) = 0.17$

Duty Cycle Factor: $10 * \log(1/0.9266) = 0.33$

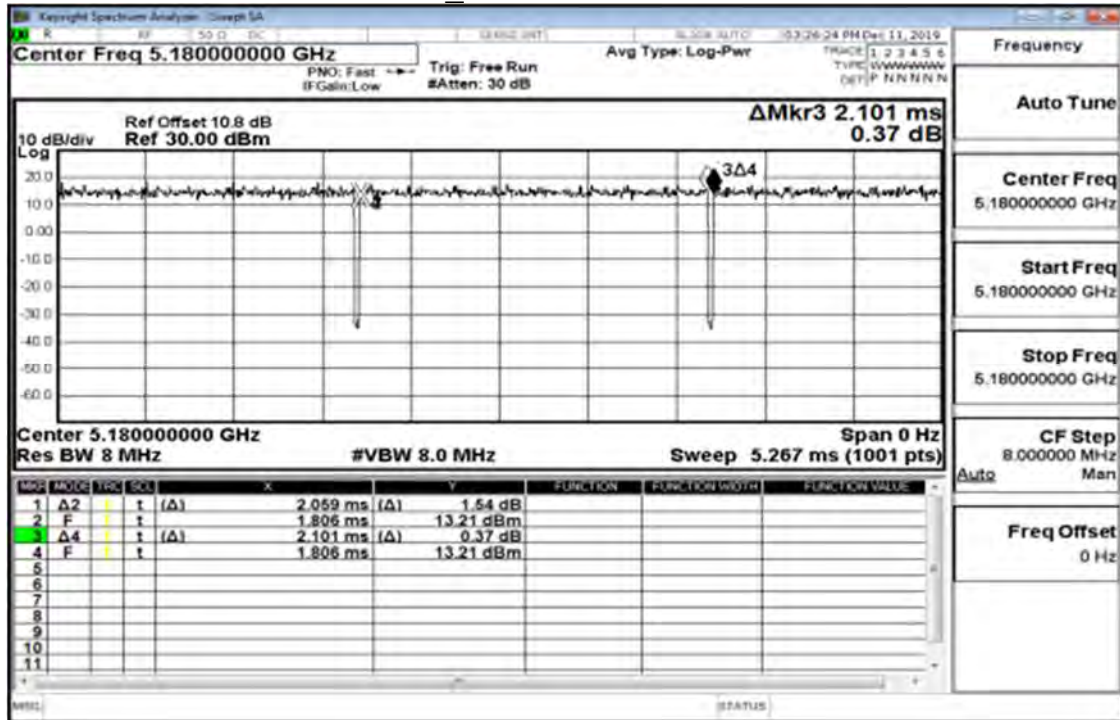
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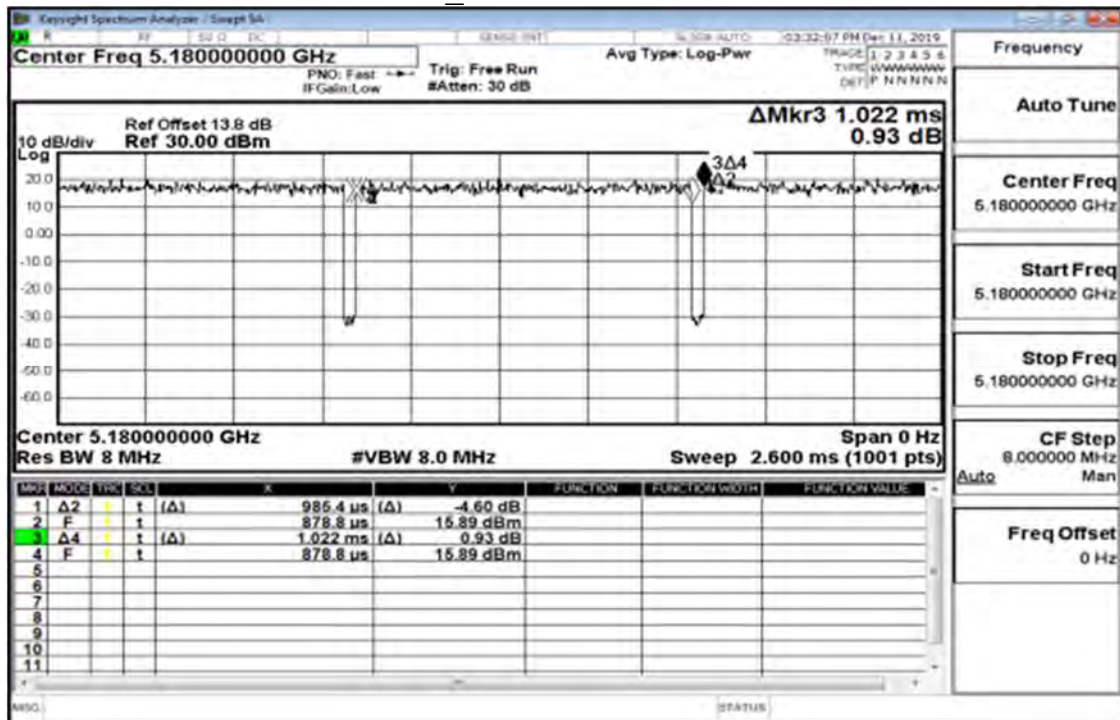
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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a_20MHz\5180 MHz-5180



802.11n_20MHz\5180 MHz-5180

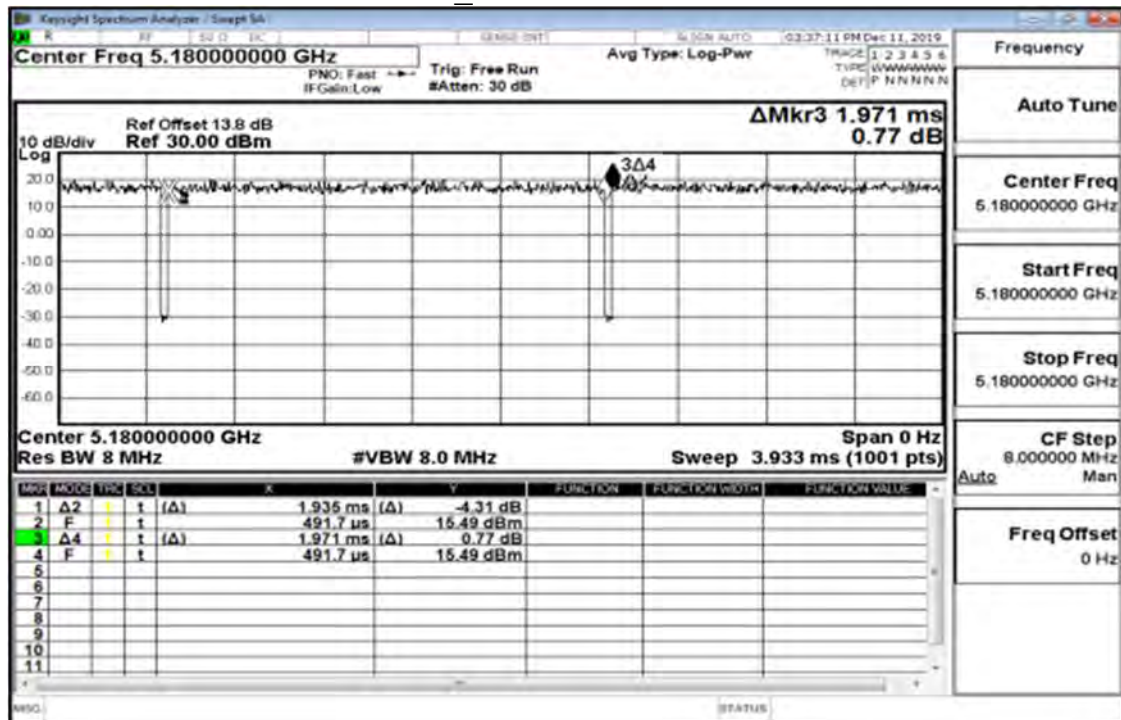


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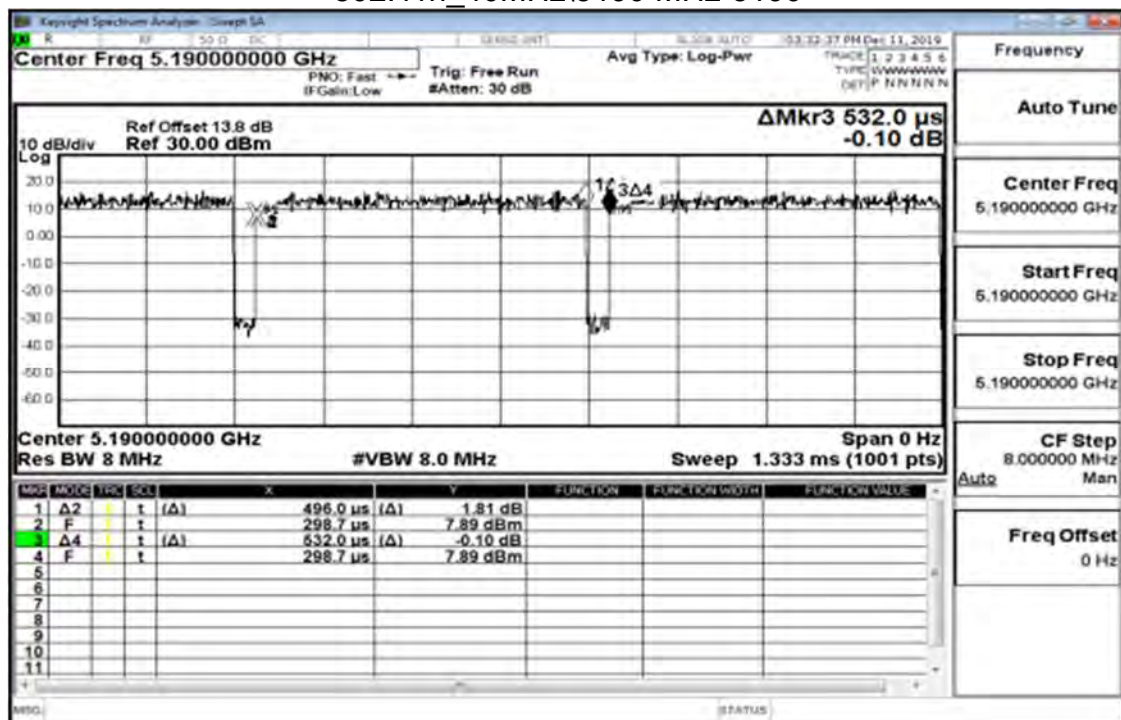
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802.11ac_20MHz\5180 MHz-5180



802.11n_40MHz\5190 MHz-5190

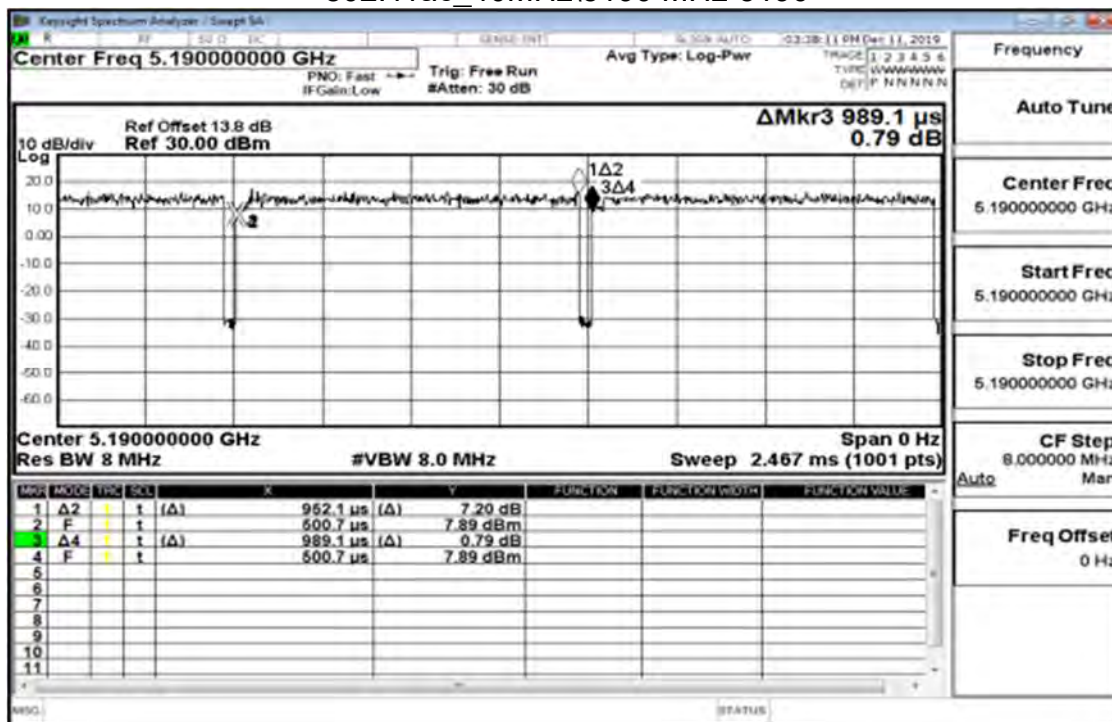


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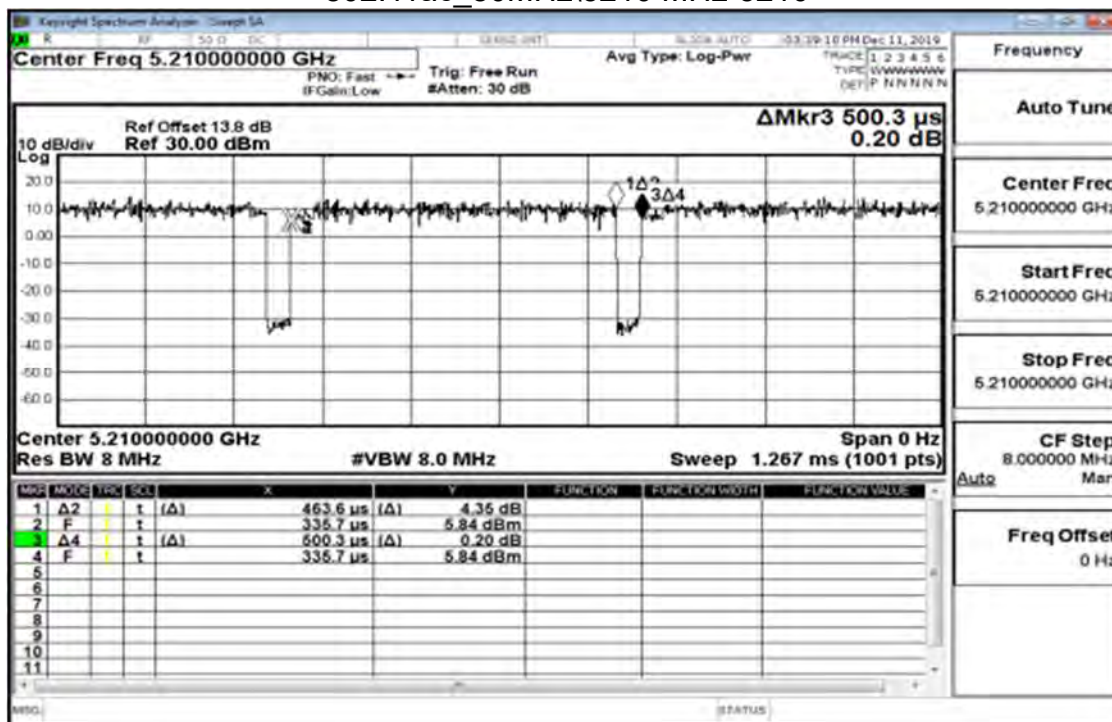
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802.11ac_40MHz\5190 MHz-5190



802.11ac_80MHz\5210 MHz-5210



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8 26DB&6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = 30M/50MHz,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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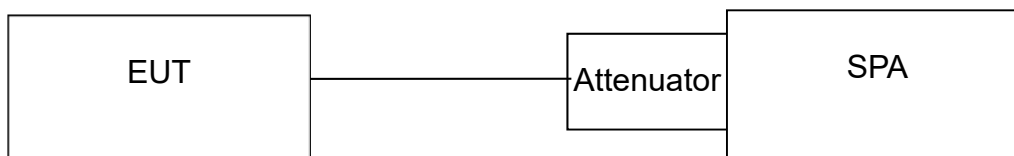
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8.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020

8.4 Test Set-up



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8.5 Measurement Result

8.5.1 FCC 26dB Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.94	12.997
5220	19.9	12.989
5240	20.51	13.120
5260	20.46	13.109
5300	19.9	12.989
5320	20.56	13.130
5500	20.18	13.049
5580	20.69	13.158
5700	20.08	13.028
5720	20.5	13.118

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.4	13.096
5220	20.42	13.101
5240	19.91	12.991
5260	19.67	12.938
5300	20.9	13.201
5320	19.92	12.993
5500	20.58	13.134
5580	19.63	12.929
5700	20.06	13.023
5720	20.62	13.143

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.54	13.332
5220	21	13.222
5240	20.9	13.201
5260	21.16	13.255
5300	20.85	13.191
5320	20.59	13.137
5500	20.95	13.212
5580	20.89	13.199
5700	21.03	13.228
5720	21.33	13.290

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.63	13.351
5220	21.53	13.330
5240	21.57	13.339
5260	21.25	13.274
5300	21.41	13.306
5320	21.35	13.294
5500	21.08	13.239
5580	20.94	13.210
5700	21.51	13.326
5720	22.04	13.432

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.88	16.008
5230	39.73	15.991
5270	39.69	15.987
5310	39.79	15.998
5510	39.88	16.008
5550	39.8	15.999
5670	39.15	15.927
5710	39.71	15.989

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.57	16.082
5230	40.21	16.043
5270	40.44	16.068
5310	40.83	16.110
5510	40.55	16.080
5550	40.78	16.104
5670	40.8	16.107
5710	40.92	16.119

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.15	19.146
5290	81.89	19.132
5530	81.55	19.114
5610	82.15	19.146
5690	82	19.138

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.91	19.133
5290	82.32	19.155
5530	82.91	19.186
5610	82.37	19.158
5690	81.45	19.109

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8.5.2 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.01	12.044
5785	16.3	12.122
5825	16.33	12.130

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.1	12.068
5785	15.31	11.850
5825	16.36	12.138

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.6	12.455
5785	16.57	12.193
5825	17.55	12.443

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.41	11.878
5785	15.48	11.898
5825	16.92	12.284

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.15	15.459
5795	35.18	15.463

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.22	15.468
5795	35.19	15.464

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.96	18.690

802.11ac_VHT80_Ch1

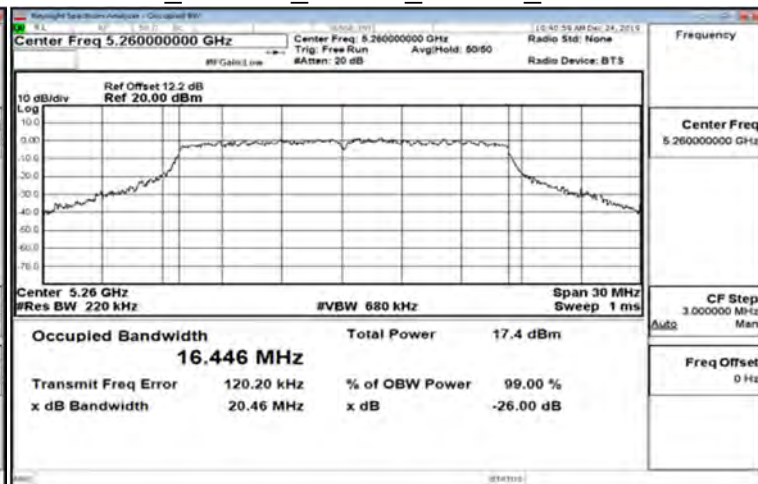
Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.26	18.766

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FCC 802.11a 20MHz Chain0 5260MHz



FCC 802.11a 20MHz Chain0 5300MHz

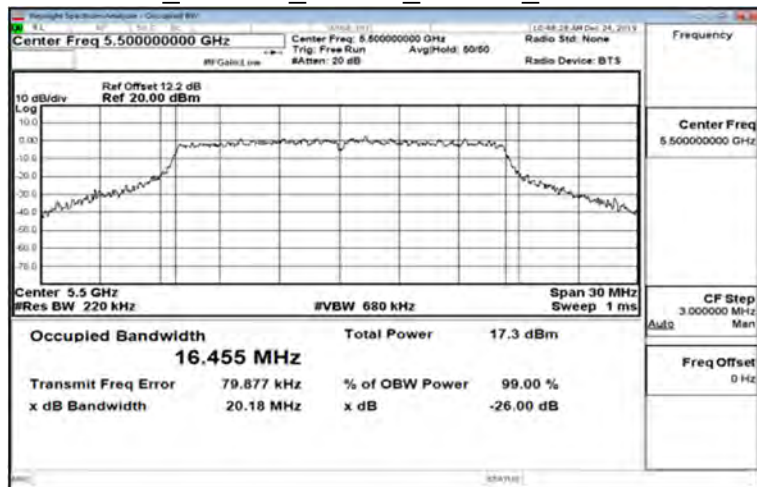


FCC 802.11a 20MHz Chain0 5320MHz

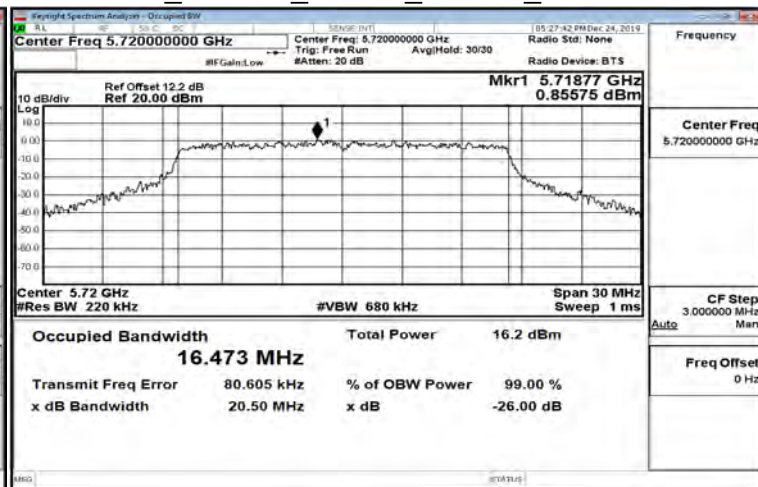


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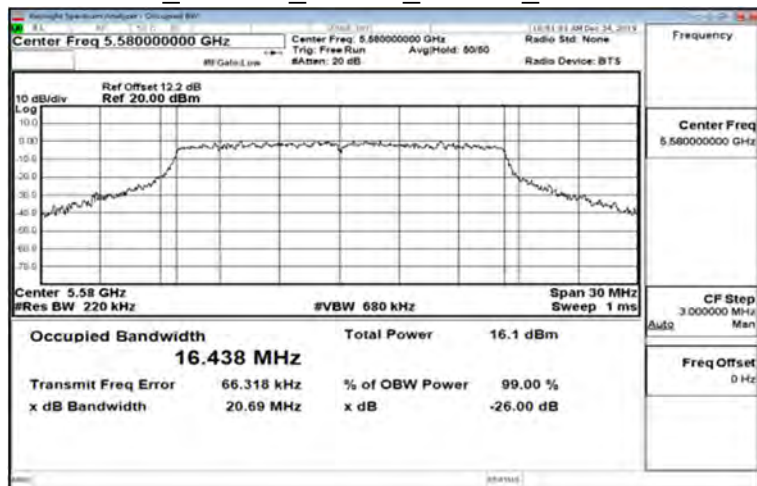
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FCC_802.11a_20MHz_Chain0_5720MHz



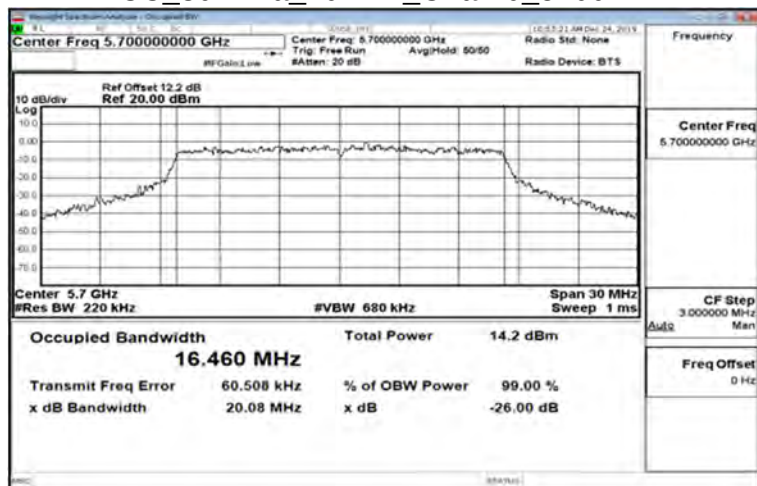
FCC_802.11a_20MHz_Chain0_5580MHz



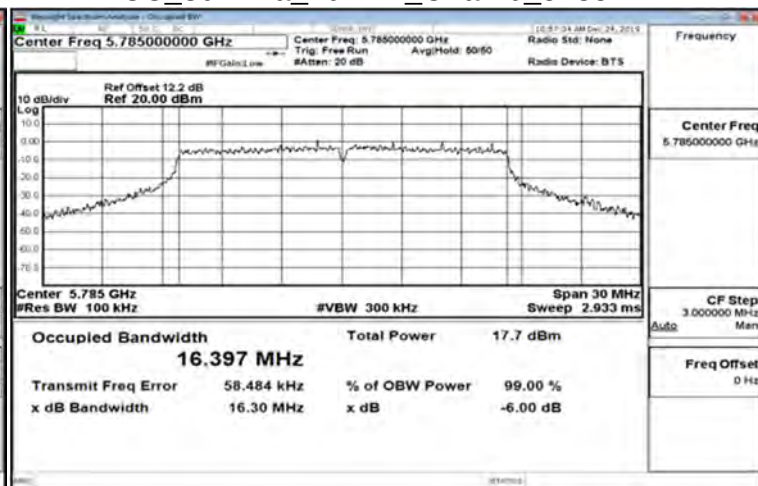
FCC_802.11a_20MHz_Chain0_5745MHz



FCC_802.11a_20MHz_Chain0_5700MHz



FCC_802.11a_20MHz_Chain0_5785MHz

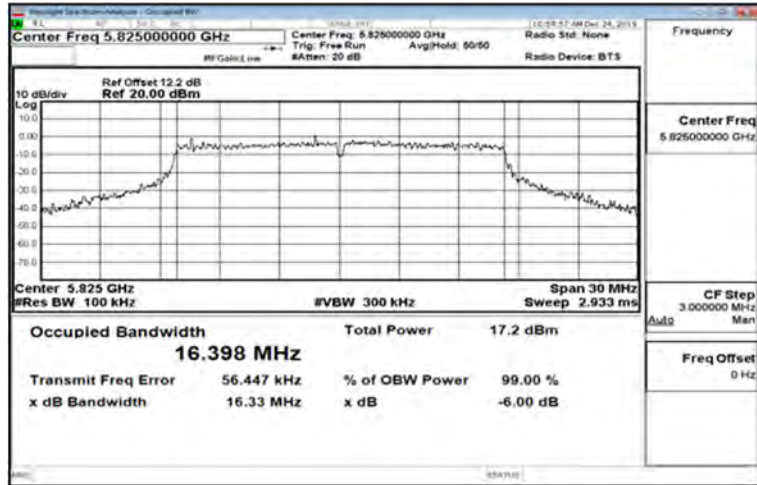


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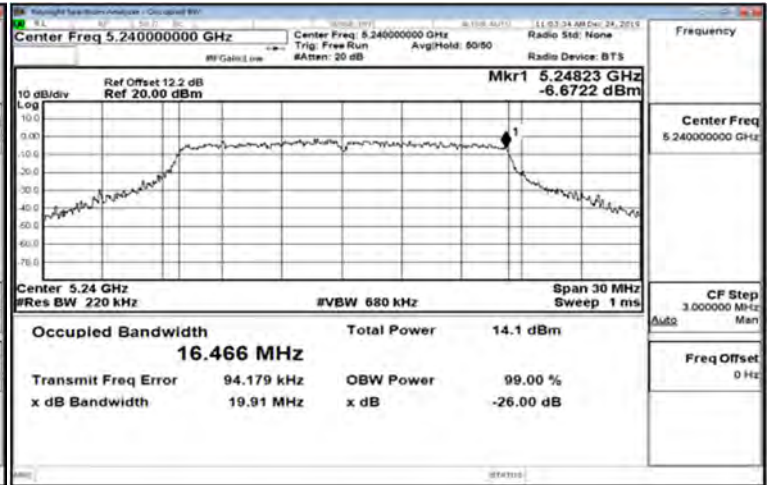
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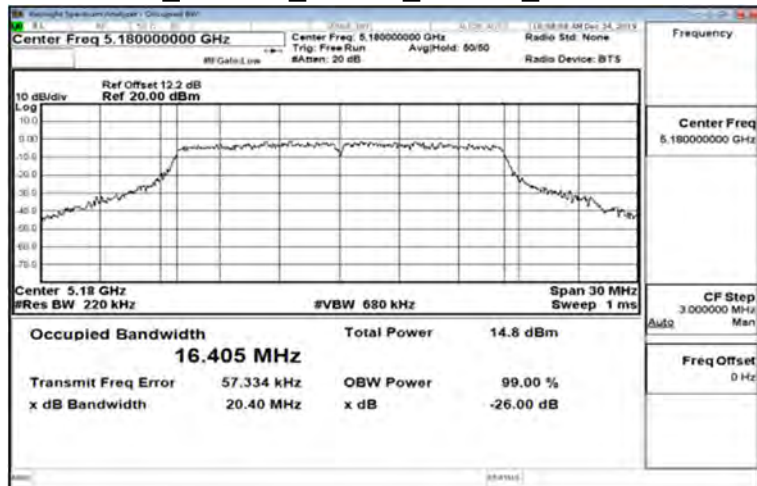
FCC_802.11a_20MHz_Chain0_5825MHz



FCC_802.11a_20MHz_Chain1_5240MHz



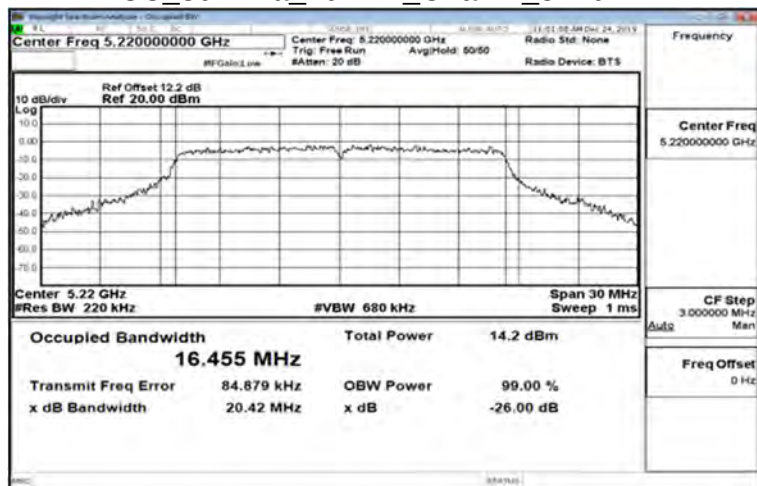
FCC_802.11a_20MHz_Chain1_5180MHz



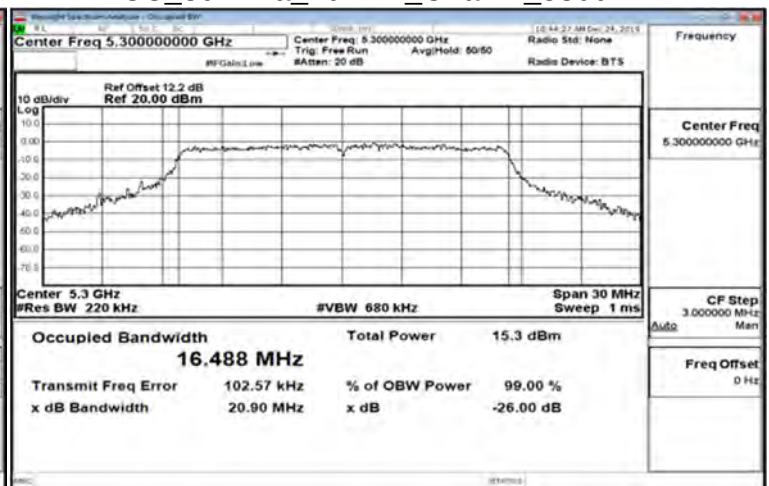
FCC_802.11a_20MHz_Chain1_5260MHz



FCC_802.11a_20MHz_Chain1_5220MHz



FCC_802.11a_20MHz_Chain1_5300MHz

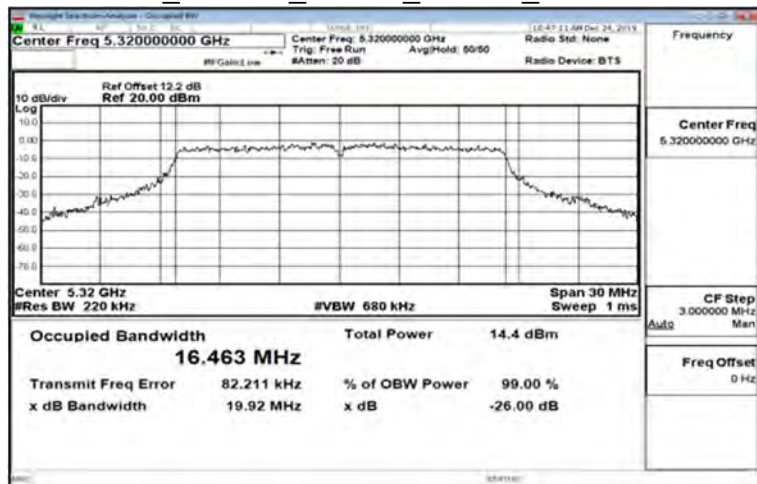


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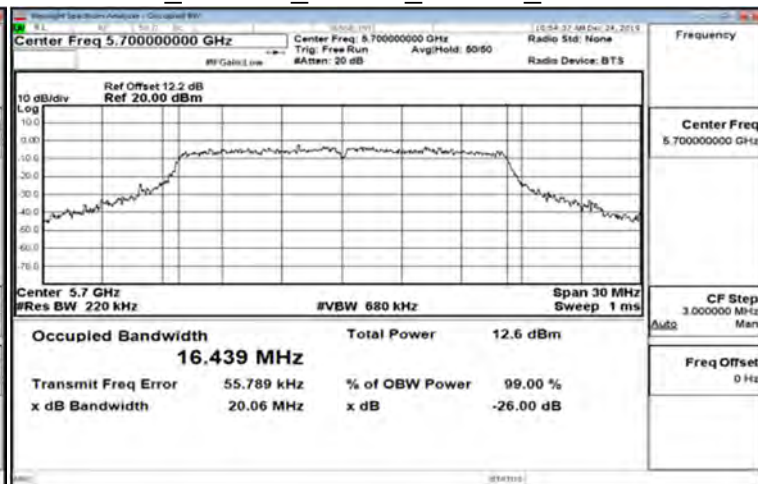
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FCC_802.11a_20MHz_Chain1_5320MHz



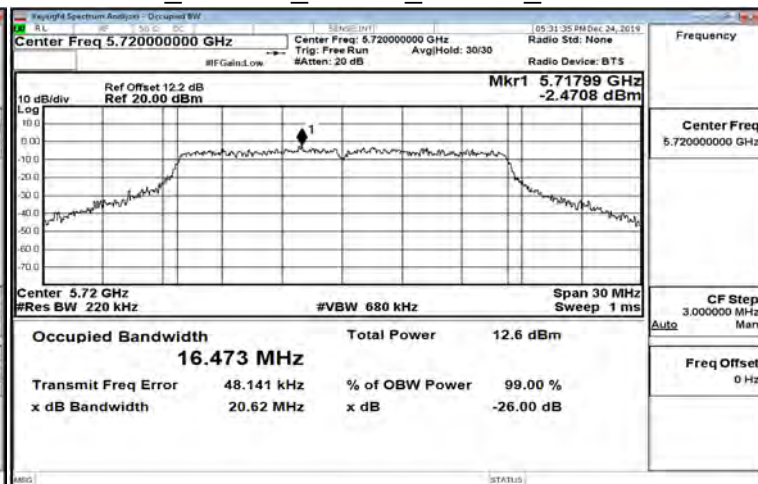
FCC_802.11a_20MHz_Chain1_5700MHz



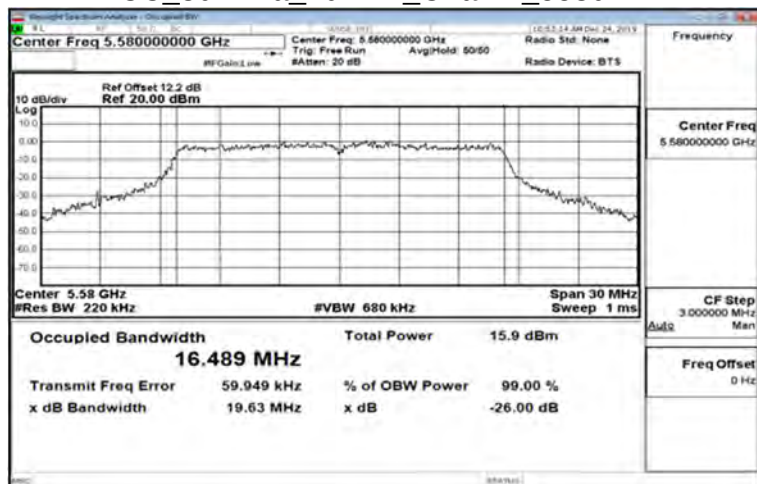
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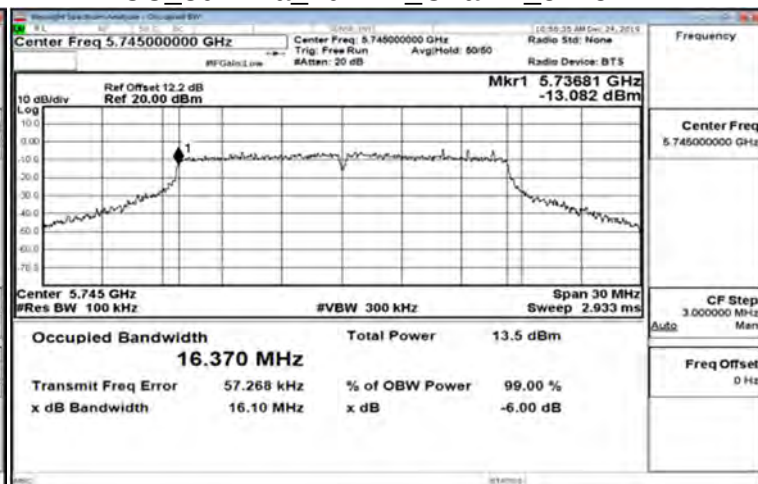
FCC_802.11a_20MHz_Chain1_5720MHz



FCC_802.11a_20MHz_Chain1_5580MHz



FCC_802.11a_20MHz_Chain1_5745MHz

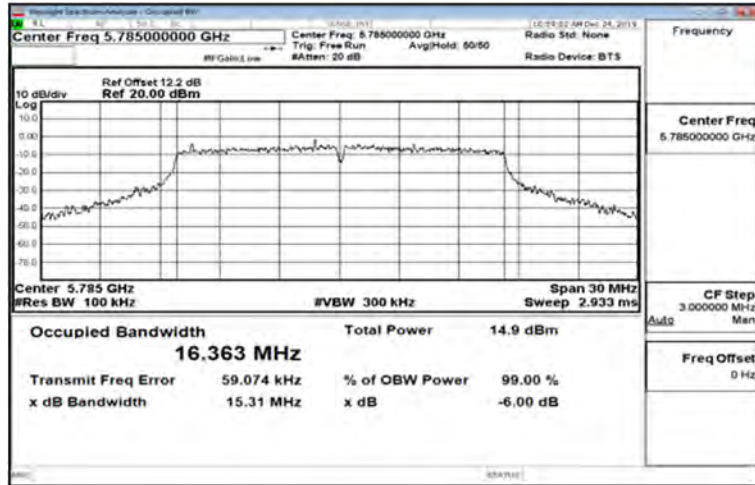


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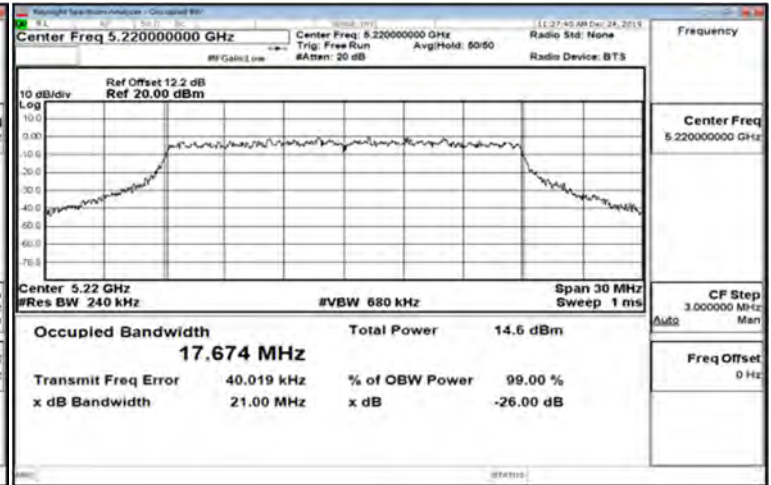
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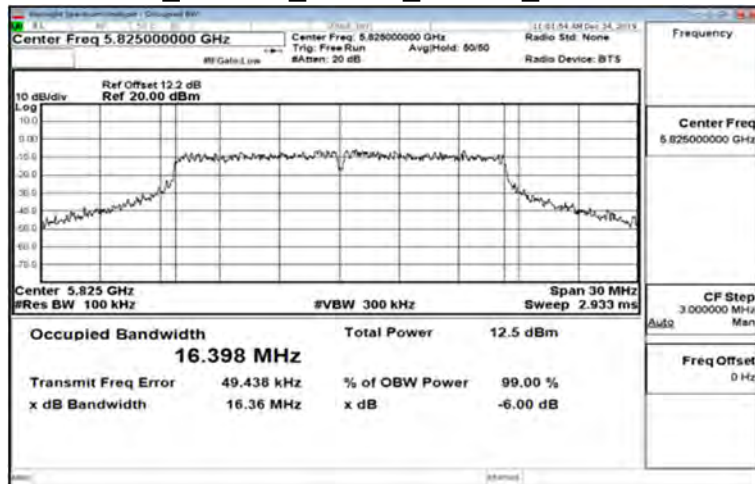
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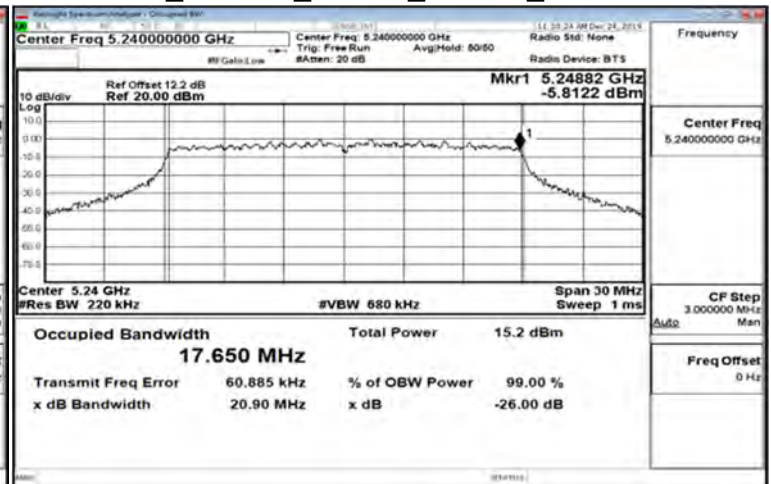
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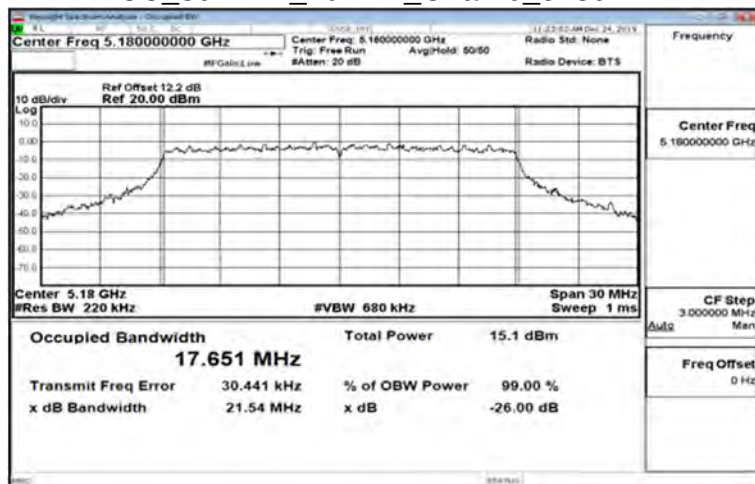
FCC_802.11a_20MHz_Chain1_5825MHz



FCC_802.11n_20MHz_Chain0_5240MHz



FCC_802.11n_20MHz_Chain0_5180MHz



FCC_802.11n_20MHz_Chain0_5260MHz

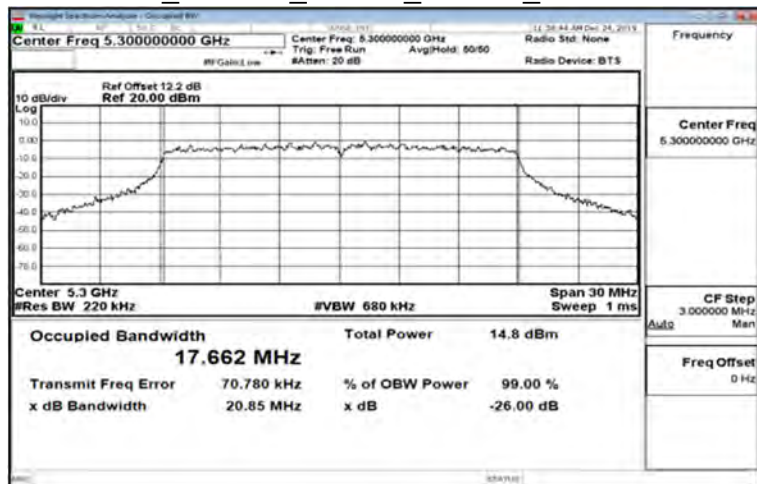


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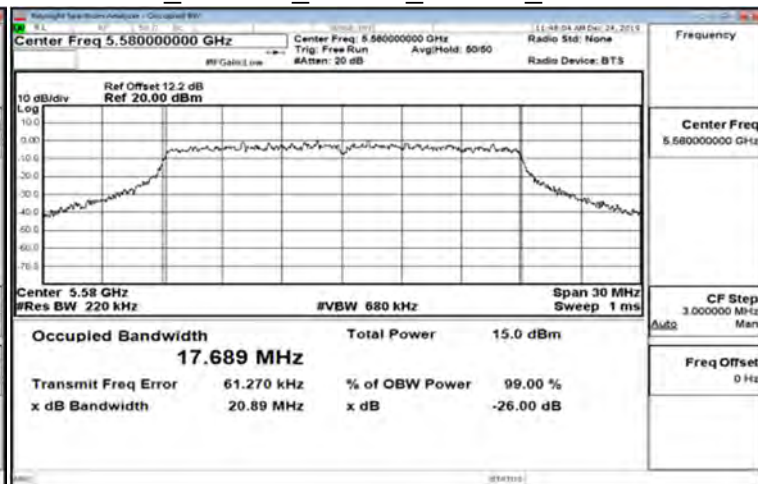
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FCC_802.11n_20MHz_Chain0_5300MHz



FCC_802.11n_20MHz_Chain0_5580MHz



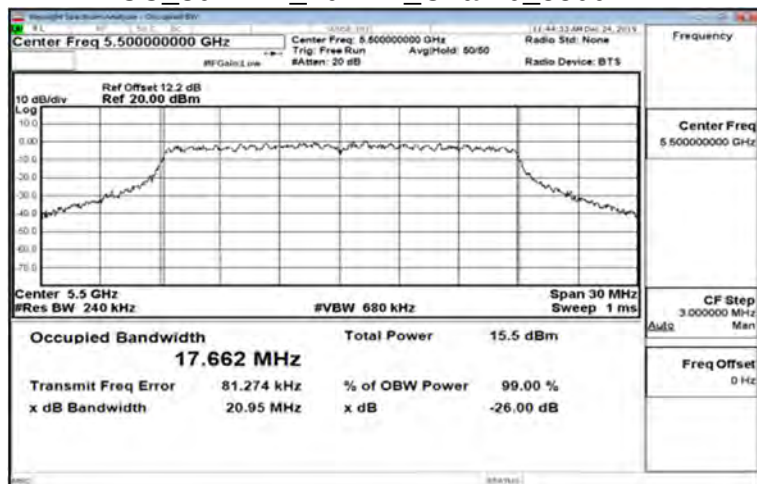
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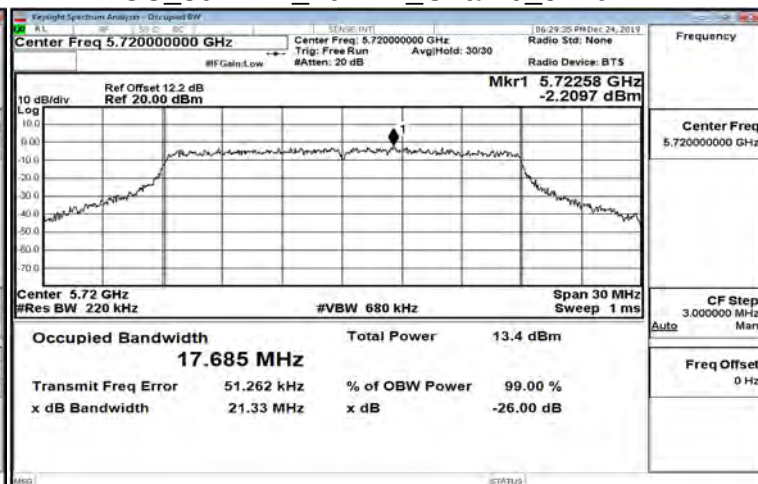
FCC_802.11n_20MHz_Chain0_5700MHz



FCC_802.11n_20MHz_Chain0_5500MHz



FCC_802.11n_20MHz_Chain0_5720MHz

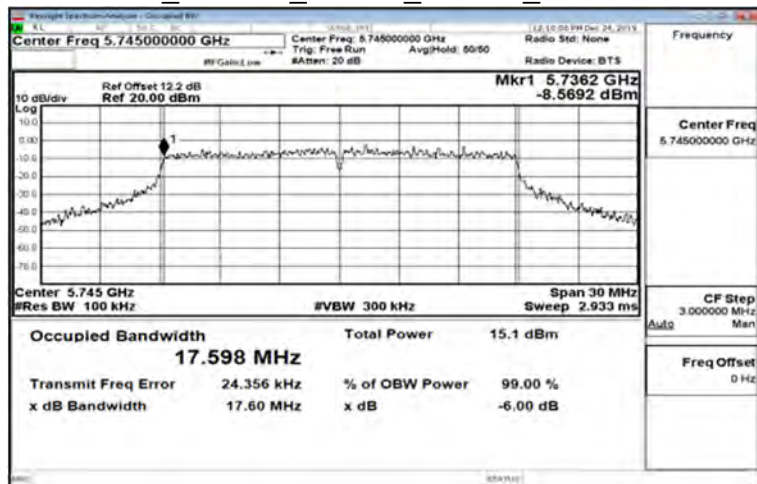


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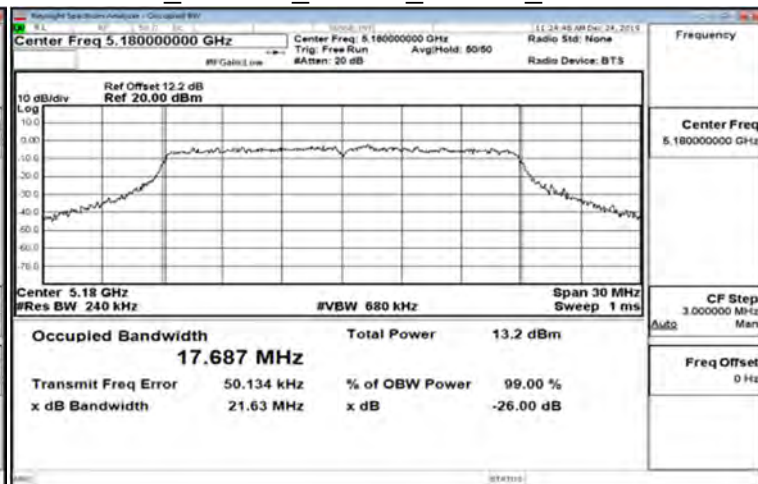
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FCC_802.11n_20MHz_Chain0_5745MHz



FCC_802.11n_20MHz_Chain1_5180MHz



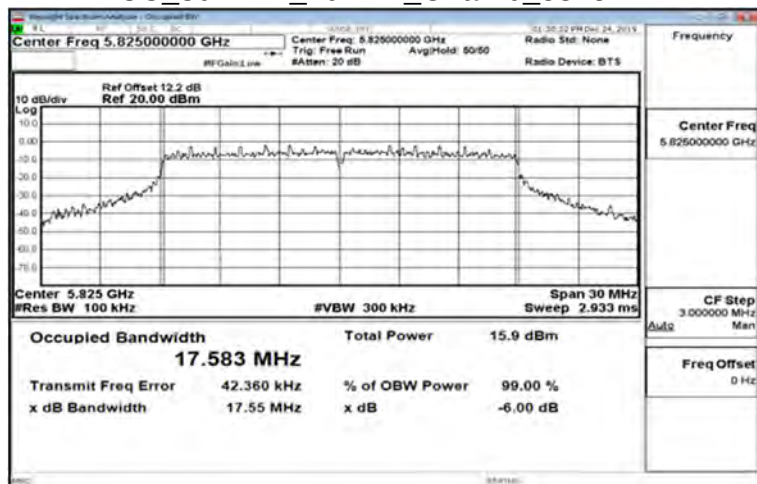
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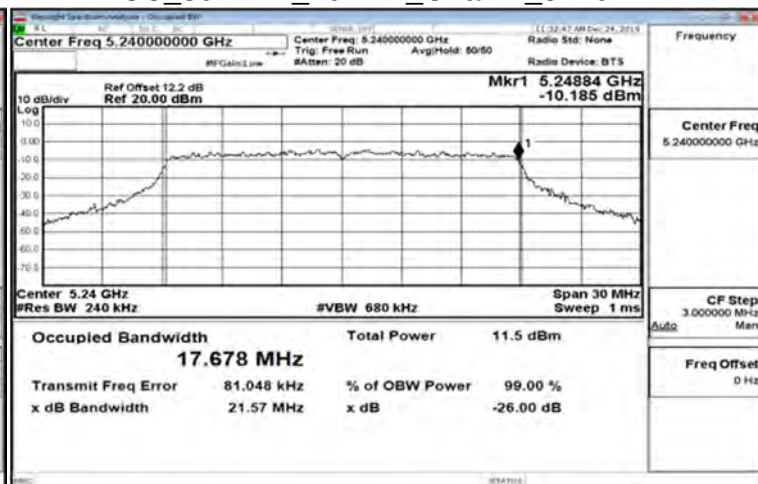
FCC_802.11n_20MHz_Chain1_5220MHz



FCC_802.11n_20MHz_Chain0_5825MHz



FCC_802.11n_20MHz_Chain1_5240MHz

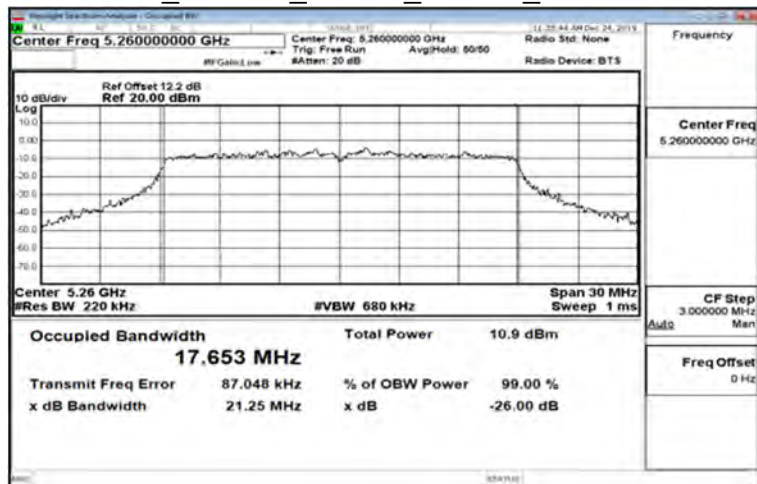


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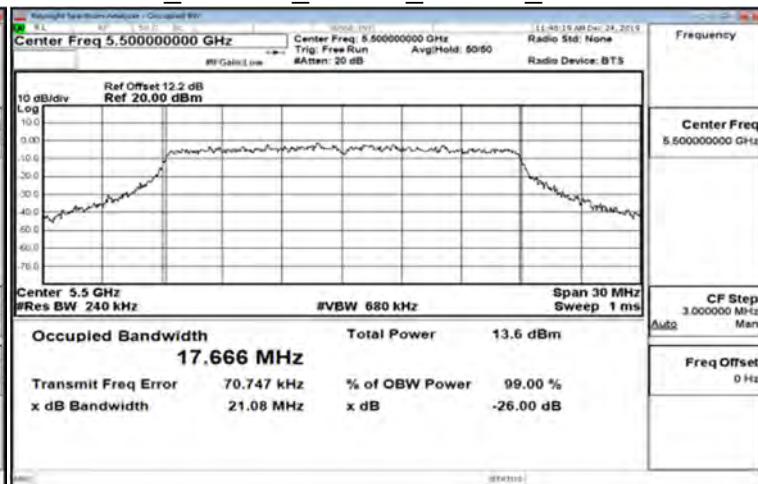
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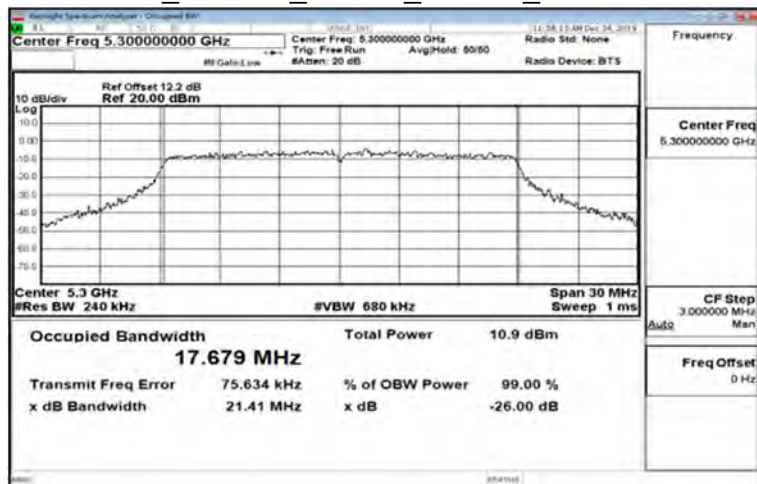
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FCC_802.11n_20MHz_Chain1_5500MHz



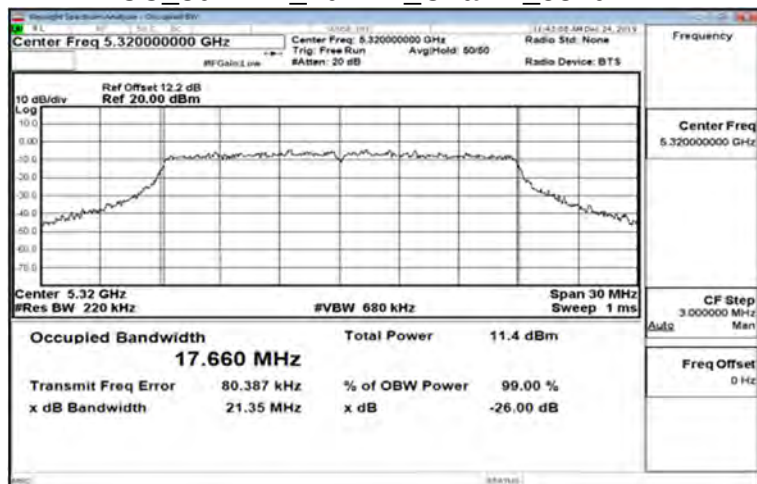
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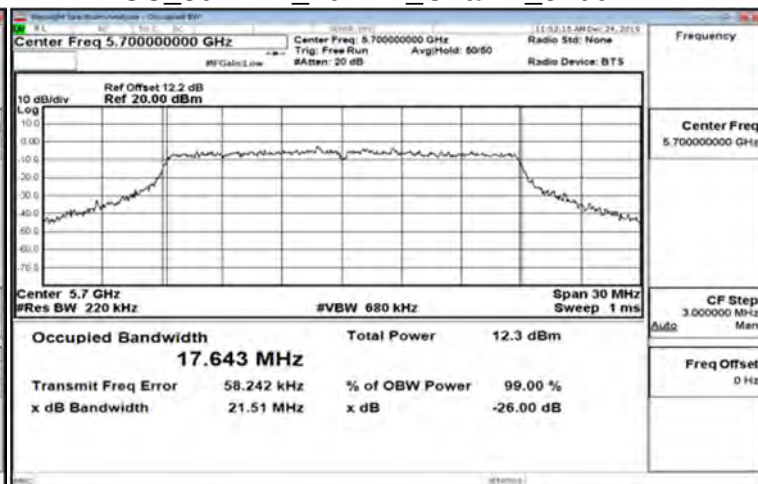
FCC_802.11n_20MHz_Chain1_5580MHz



FCC_802.11n_20MHz_Chain1_5320MHz



FCC_802.11n_20MHz_Chain1_5700MHz

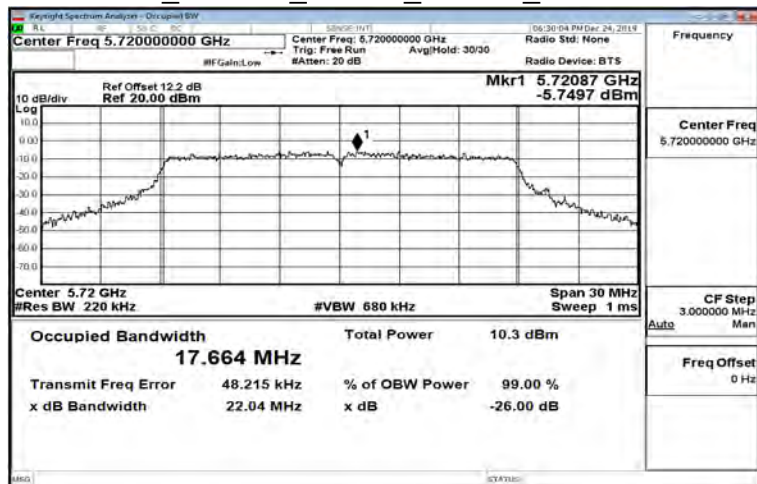


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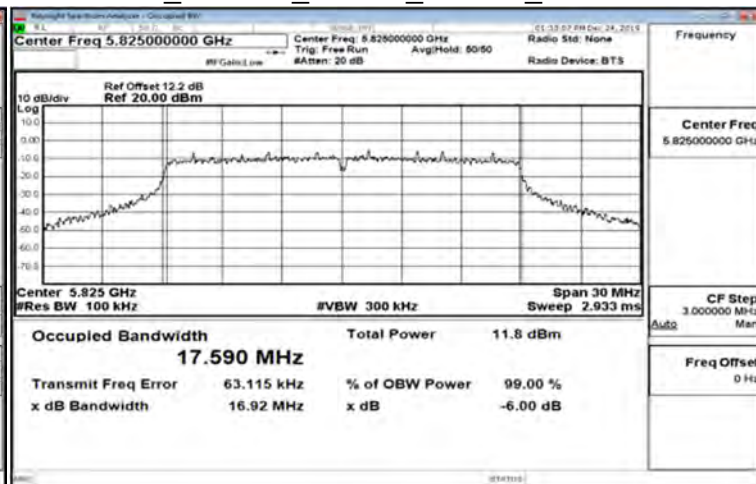
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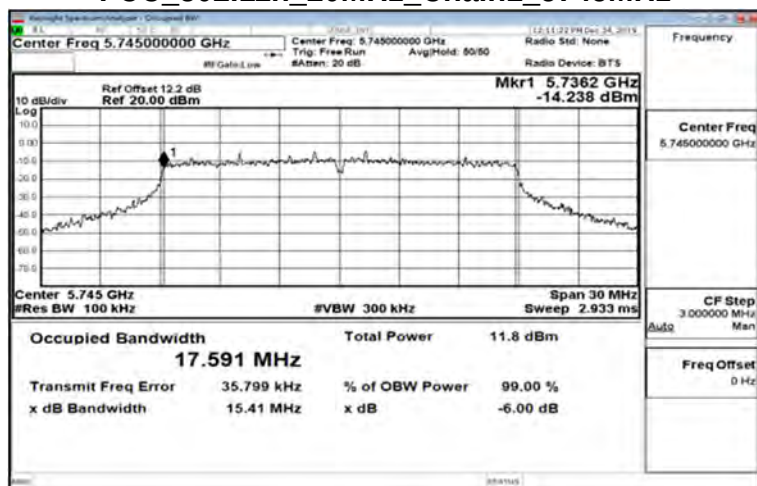
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FCC 802.11n 20MHz_Chain1_5825MHz



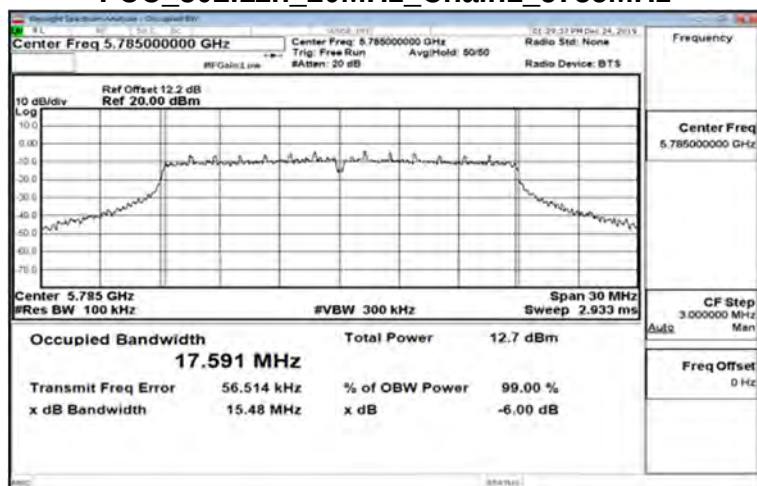
FCC 802.11n 20MHz_Chain1_5745MHz



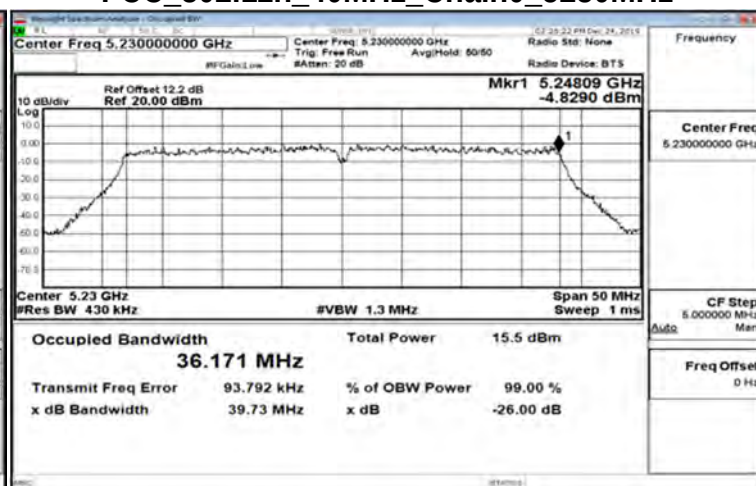
FCC 802.11n 40MHz_Chain0_5190MHz



FCC 802.11n 20MHz_Chain1_5785MHz



FCC 802.11n 40MHz_Chain0_5230MHz



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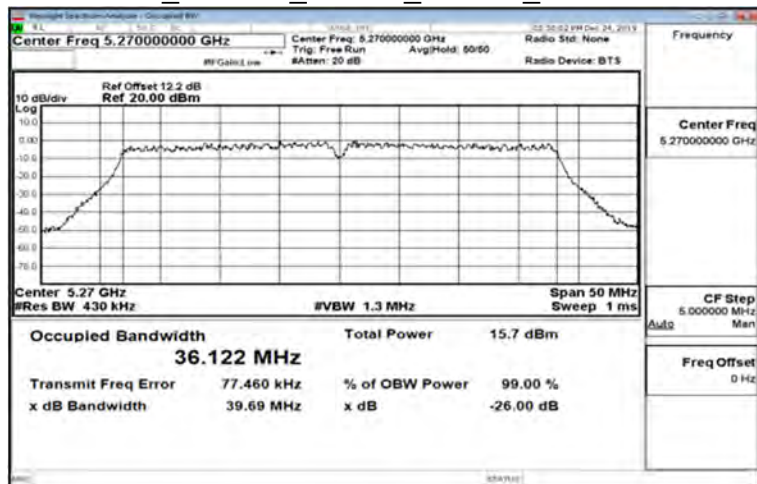
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f (886-2) 2298-0488

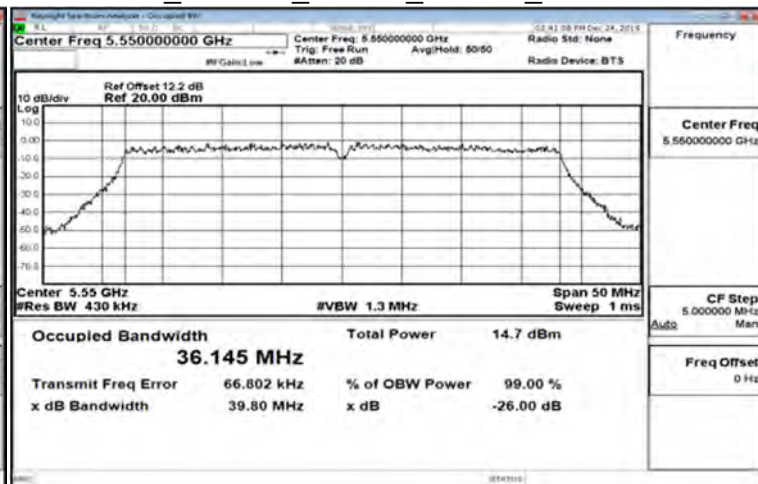
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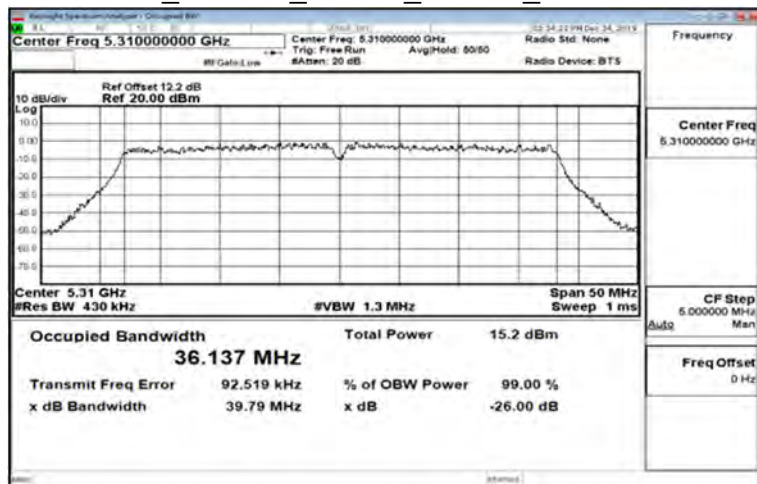
FCC_802.11n_40MHz_Chain0_5270MHz



FCC_802.11n_40MHz_Chain0_5550MHz



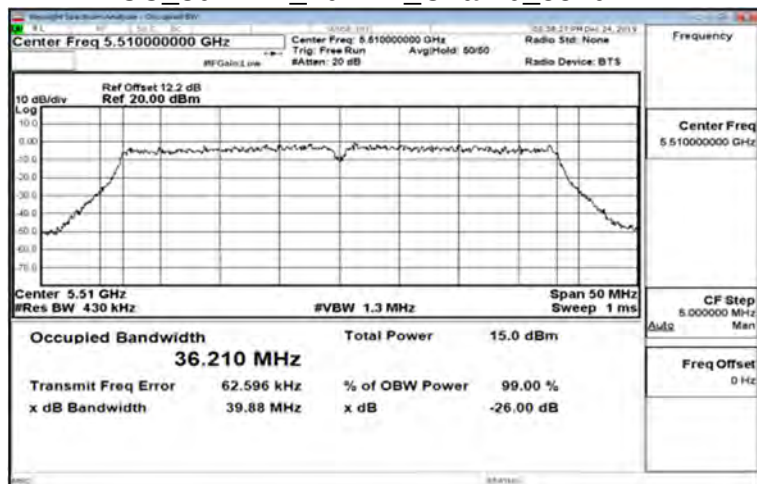
FCC_802.11n_40MHz_Chain0_5310MHz



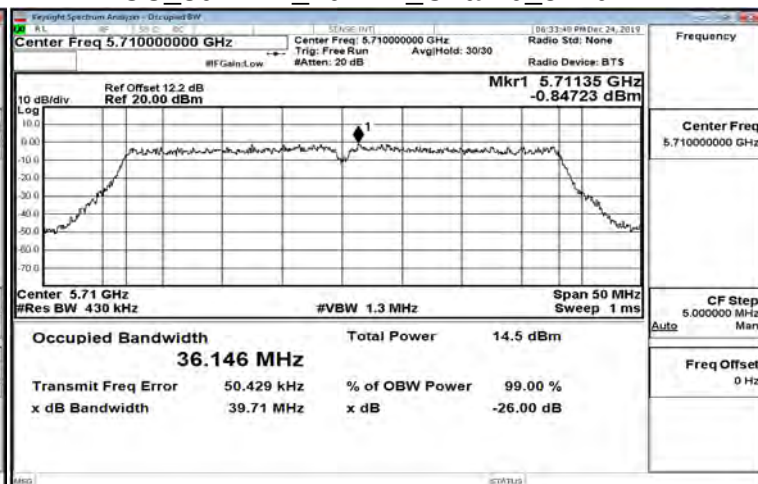
FCC_802.11n_40MHz_Chain0_5670MHz



FCC_802.11n_40MHz_Chain0_5510MHz



FCC_802.11n_40MHz_Chain0_5710MHz

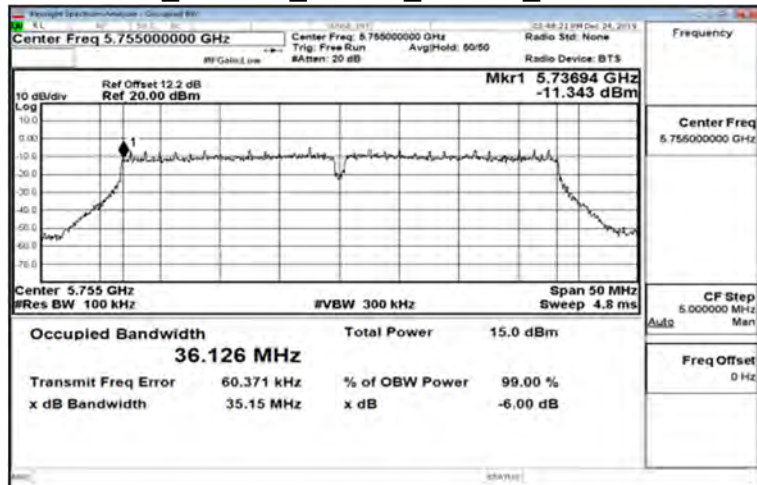


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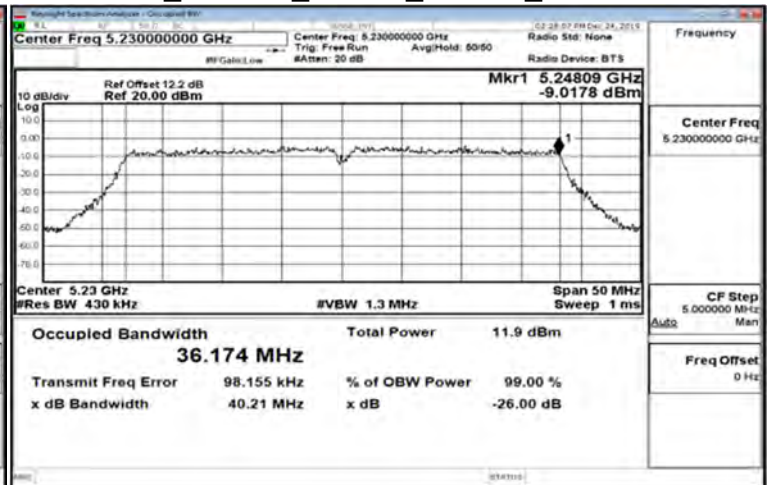
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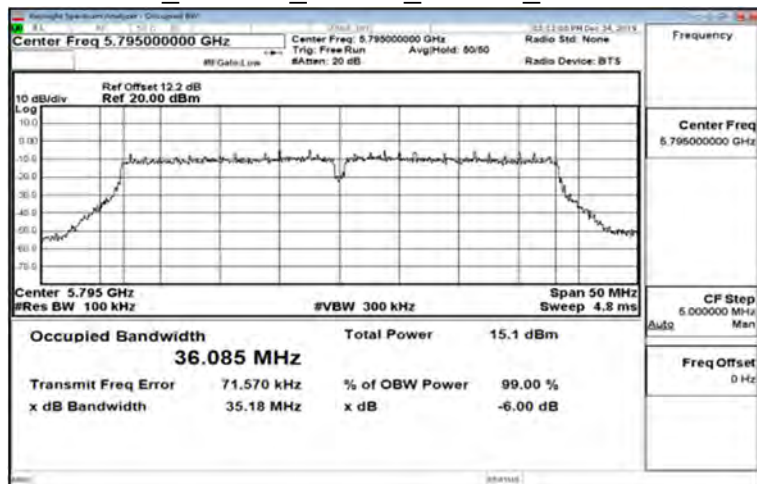
FCC_802.11n_40MHz_Chain0_5755MHz



FCC_802.11n_40MHz_Chain1_5230MHz



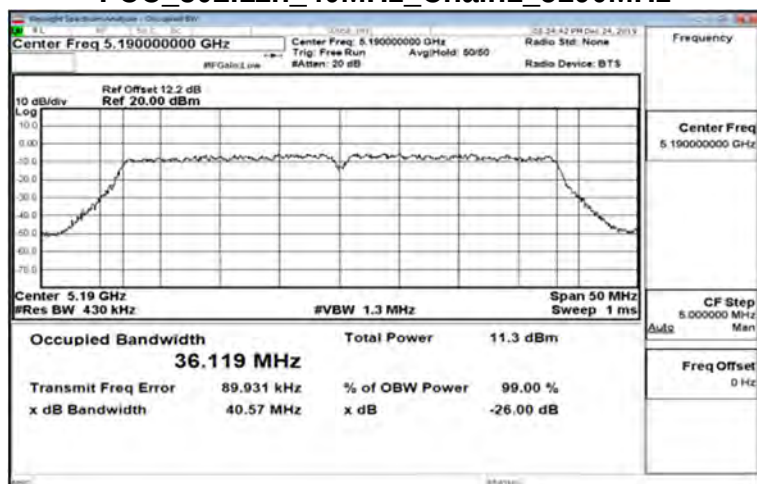
FCC_802.11n_40MHz_Chain0_5795MHz



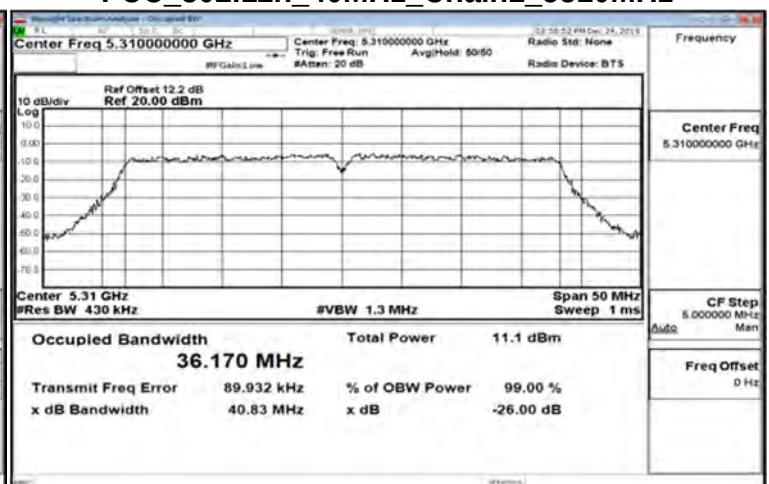
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FCC_802.11n_40MHz_Chain1_5190MHz



FCC_802.11n_40MHz_Chain1_5310MHz

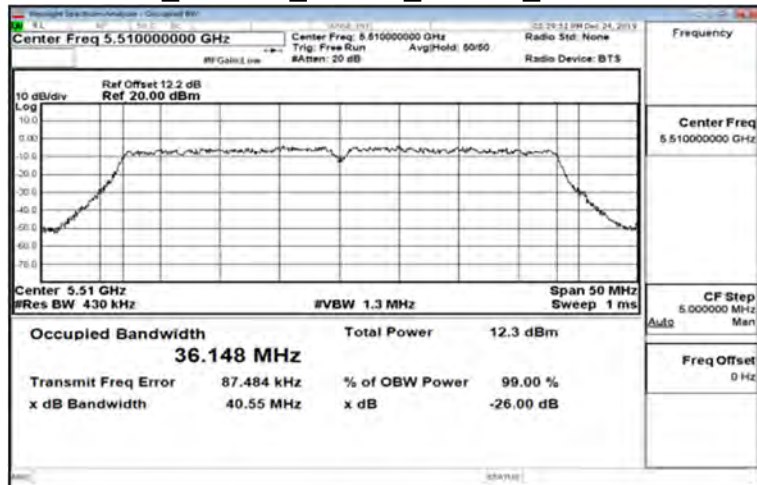


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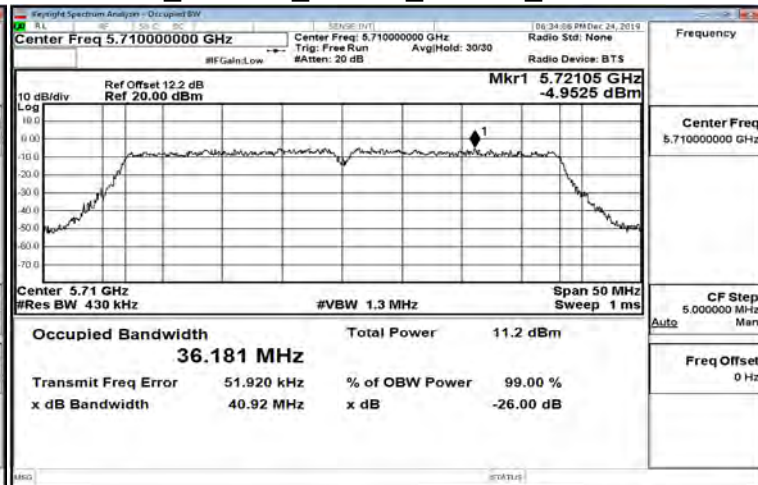
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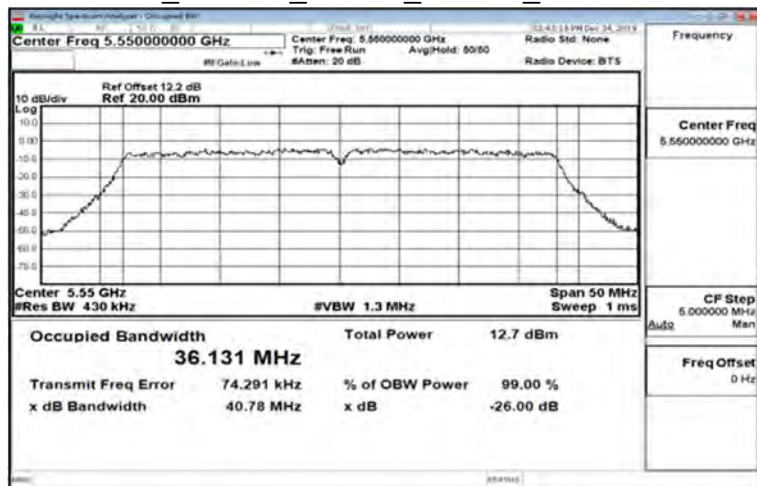
FCC_802.11n_40MHz_Chain1_5510MHz



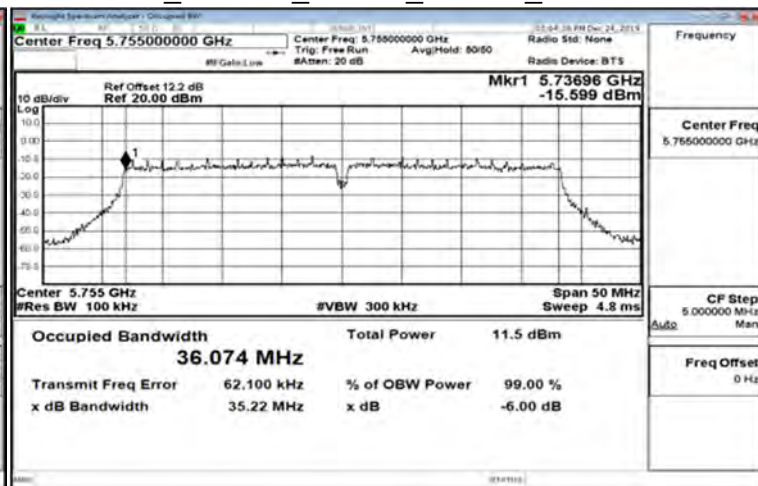
FCC_802.11n_40MHz_Chain1_5710MHz



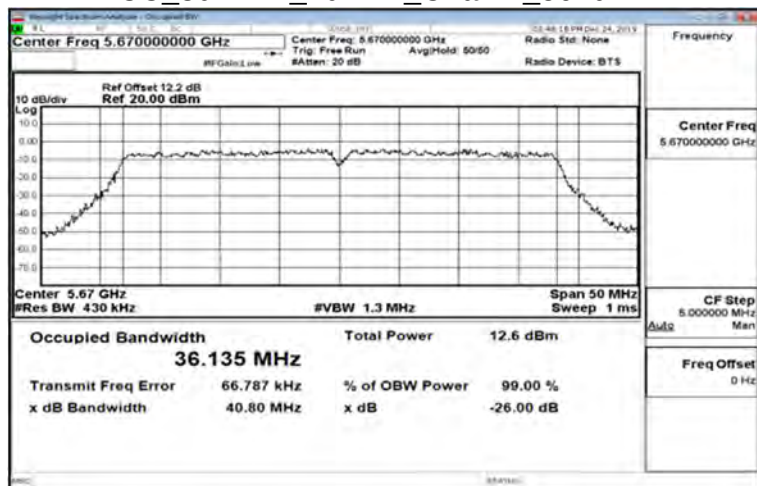
FCC_802.11n_40MHz_Chain1_5550MHz



FCC_802.11n_40MHz_Chain1_5755MHz



FCC_802.11n_40MHz_Chain1_5670MHz



FCC_802.11n_40MHz_Chain1_5795MHz

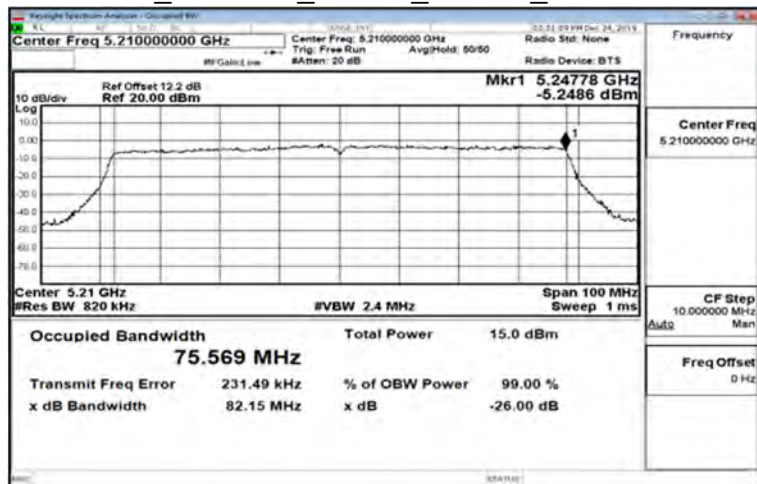


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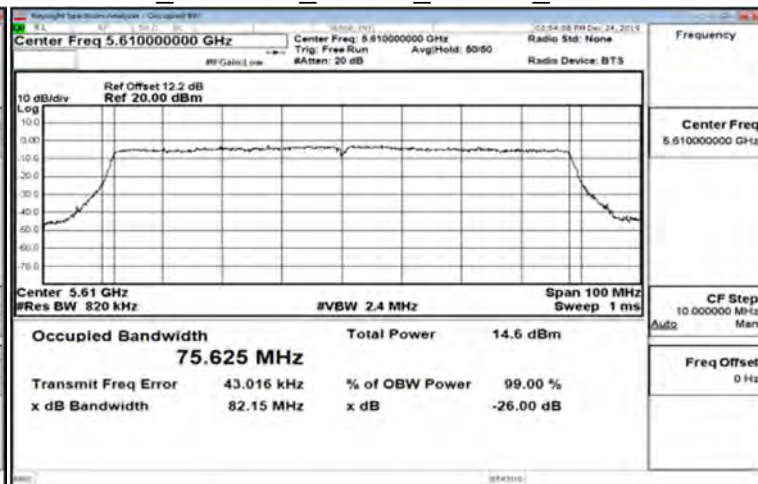
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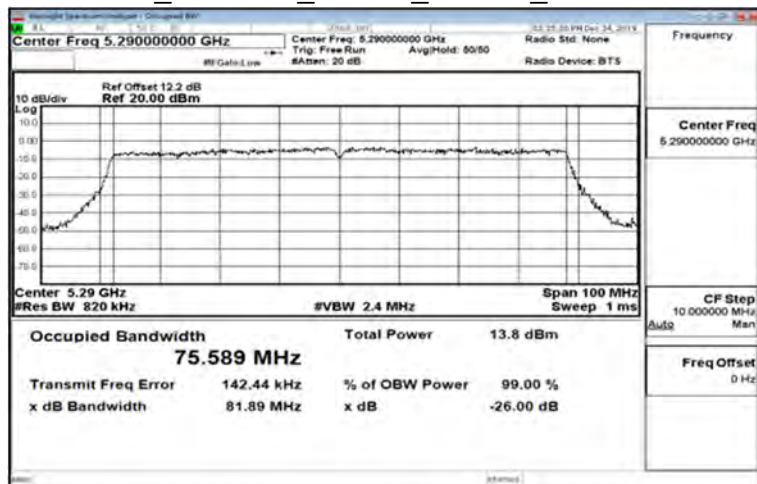
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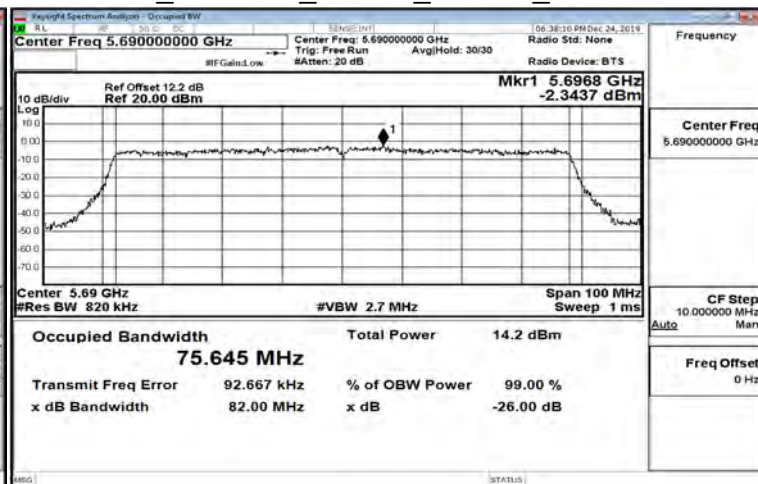
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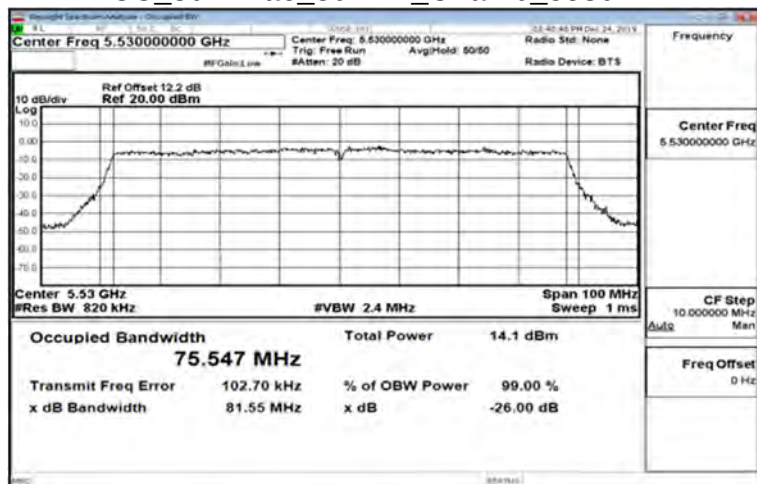
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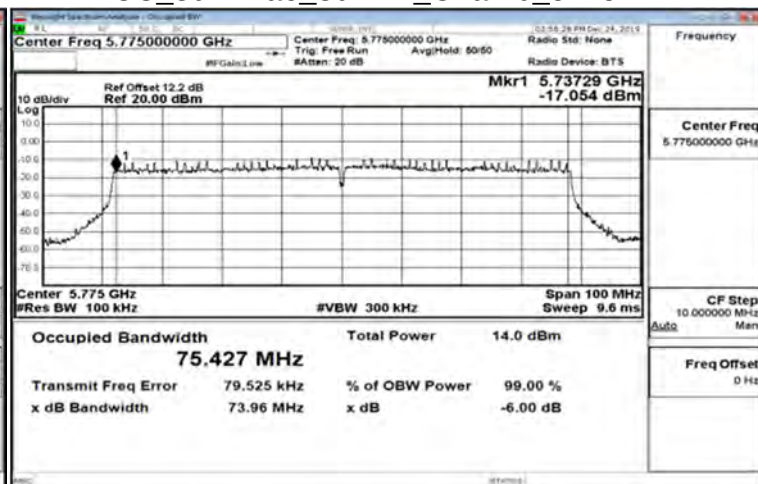
FCC 802.11ac 80MHz_Chain0_5690MHz



FCC 802.11ac 80MHz_Chain0_5530MHz



FCC 802.11ac 80MHz_Chain0_5775MHz

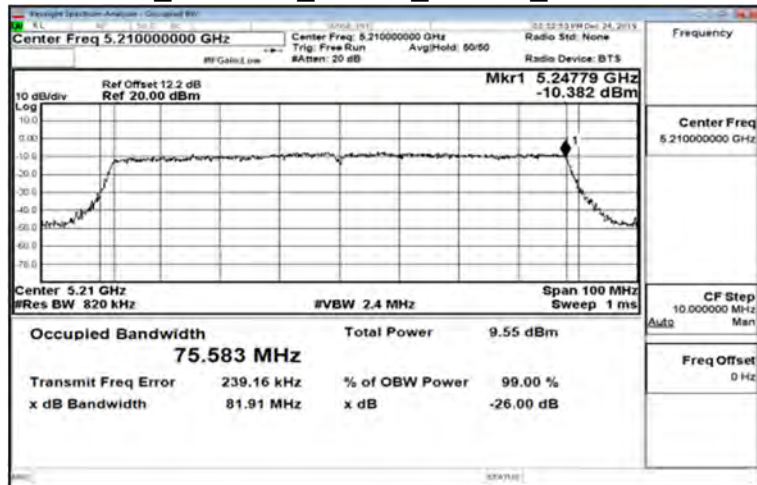


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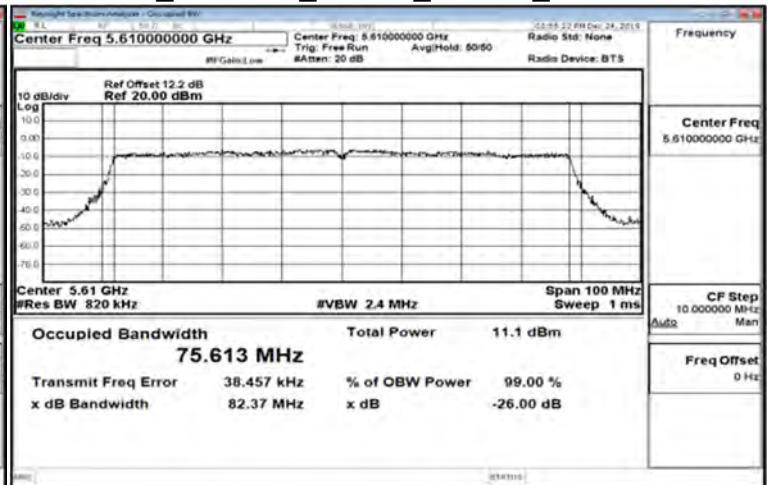
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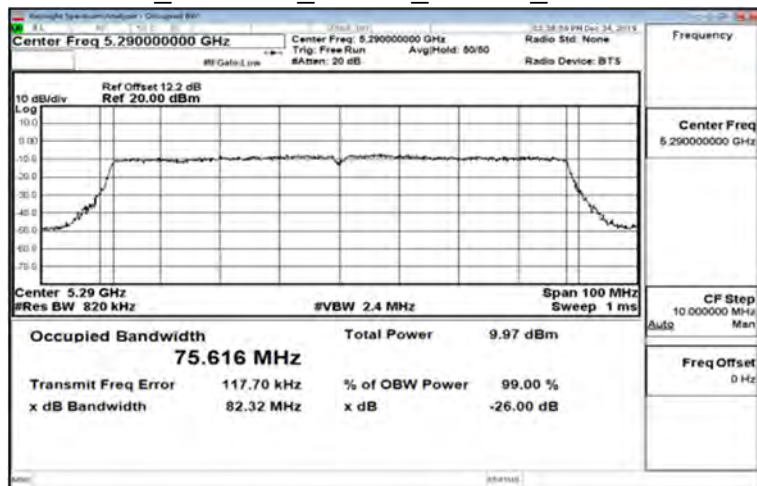
FCC 802.11ac 80MHz Chain1 5210MHz



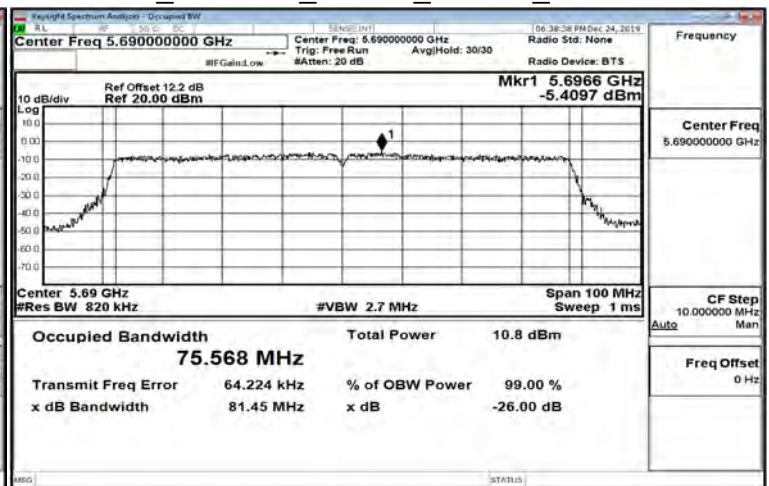
FCC 802.11ac 80MHz Chain1 5610MHz



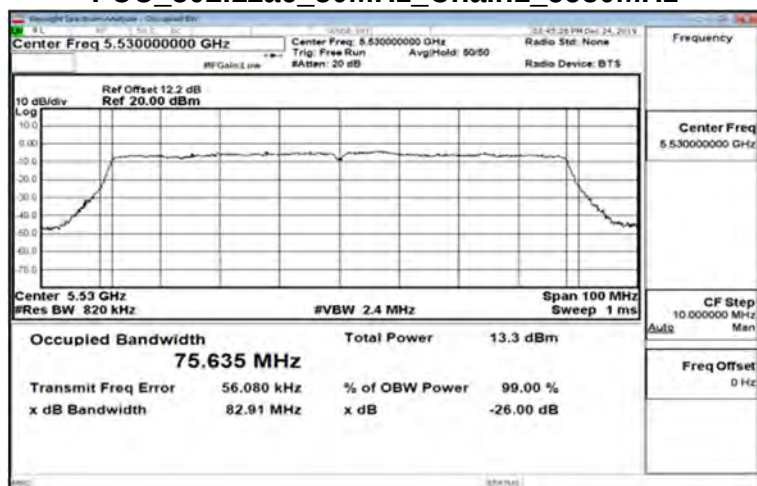
FCC 802.11ac 80MHz Chain1 5290MHz



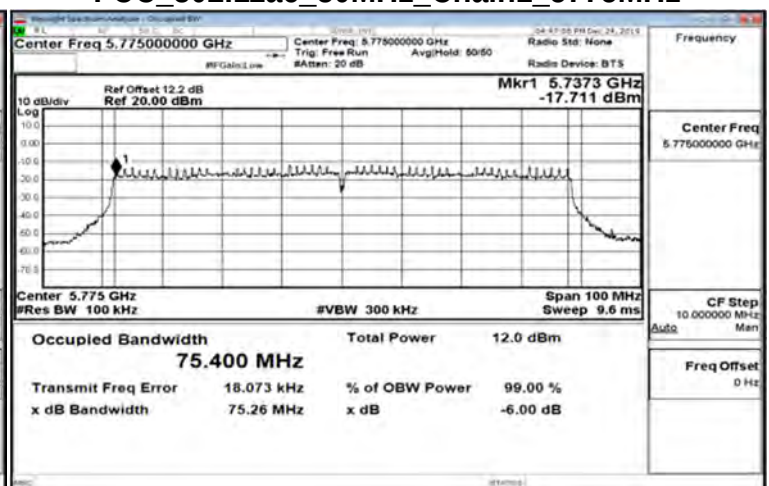
FCC 802.11ac 80MHz Chain1 5690MHz



FCC 802.11ac 80MHz Chain1 5530MHz



FCC 802.11ac 80MHz Chain1 5775MHz



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8.5.3 99% BW Verification for DFS Function

802.11a_Ch0			802.11a_Ch1		
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.23	< 5250	5240	5248.23	< 5250
5745	5736.80	> 5725	5745	5736.81	> 5725

802.11n_HT20_Ch0			802.11n_HT20_Ch1		
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.82	< 5250	5240	5248.84	< 5250
5745	5736.20	> 5725	5745	5736.20	> 5725

802.11n_HT40_Ch0			802.11n_HT40_Ch1		
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.09	< 5250	5230	5248.09	< 5250
5755	5736.94	> 5725	5755	5736.96	> 5725

802.11ac_VHT80_Ch0			802.11ac_VHT80_Ch1		
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.78	< 5250	5210	5247.79	< 5250
5775	5737.29	> 5725	5775	5737.30	> 5725

Please see next page for test plots.

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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

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Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

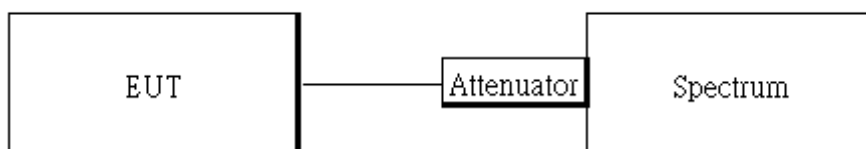
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Power Meter	Anritsu	ML2496A	1804002	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726105	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726106	03/26/2019	03/25/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020

9.4 Test Set-up

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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	10.97	12.496	30	PASS
44	5220	6	10.99	12.554	30	PASS
48	5240	6	10.96	12.467	30	PASS
52	5260	6	10.97	12.496	23.98 or $11+10\log(B) = 24.11$	PASS
60	5300	6	10.99	12.554	23.98 or $11+10\log(B) = 23.99$	PASS
64	5320	6	10.98	12.525	23.98 or $11+10\log(B) = 24.13$	PASS
100	5500	6	10.97	12.496	23.98 or $11+10\log(B) = 24.05$	PASS
116	5580	6	10.96	12.467	23.98 or $11+10\log(B) = 24.16$	PASS
140	5700	6	10.89	12.268	23.98 or $11+10\log(B) = 24.03$	PASS
144	5720(U-NII 2C)	6	9.61	9.15	23.98 or $11+10\log(B) = 24.12$	PASS
144	5720 (U-NII 3)	6	4.98	3.15	30	PASS
149	5745	6	10.85	12.156	30	PASS
157	5785	6	10.96	12.467	30	PASS
165	5825	6	10.99	12.554	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	10.91	12.325	30	PASS
44	5220	6	10.86	12.184	30	PASS
48	5240	6	10.94	12.410	30	PASS
52	5260	6	10.95	12.439	23.98 or $11+10\log(B) = 23.94$	PASS
60	5300	6	10.97	12.496	23.98 or $11+10\log(B) = 24.20$	PASS
64	5320	6	10.79	11.989	23.98 or $11+10\log(B) = 23.99$	PASS
100	5500	6	10.80	12.016	23.98 or $11+10\log(B) = 24.13$	PASS
116	5580	6	10.91	12.325	23.98 or $11+10\log(B) = 23.93$	PASS
140	5700	6	10.83	12.100	23.98 or $11+10\log(B) = 24.02$	PASS
144	5720(U-NII 2C)	6	9.57	9.07	23.98 or $11+10\log(B) = 24.14$	PASS
144	5720 (U-NII 3)	6	4.98	3.14	30	PASS
149	5745	6	10.84	12.128	30	PASS
157	5785	6	10.94	12.410	30	PASS
165	5825	6	10.97	12.496	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10.97	12.499	30	PASS
44	5220	MCS0	10.93	12.384	30	PASS
48	5240	MCS0	10.92	12.356	30	PASS
52	5260	MCS0	10.94	12.413	23.98 or $11+10\log(B) = 24.26$	PASS
60	5300	MCS0	10.95	12.442	23.98 or $11+10\log(B) = 24.19$	PASS
64	5320	MCS0	10.93	12.384	23.98 or $11+10\log(B) = 24.14$	PASS
100	5500	MCS0	10.83	12.103	23.98 or $11+10\log(B) = 24.21$	PASS
116	5580	MCS0	10.91	12.328	23.98 or $11+10\log(B) = 24.20$	PASS
140	5700	MCS0	10.86	12.186	23.98 or $11+10\log(B) = 24.23$	PASS
144	5720(U-NII 2C)	MCS0	9.54	8.99	23.98 or $11+10\log(B) = 24.29$	PASS
144	5720 (U-NII 3)	MCS0	5.12	3.25	30	PASS
149	5745	MCS0	10.85	12.158	30	PASS
157	5785	MCS0	10.96	12.470	30	PASS
165	5825	MCS0	10.95	12.442	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10.85	12.158	30	PASS
44	5220	MCS0	10.83	12.103	30	PASS
48	5240	MCS0	10.91	12.328	30	PASS
52	5260	MCS0	10.92	12.356	23.98 or $11+10\log(B) = 24.27$	PASS
60	5300	MCS0	10.94	12.413	23.98 or $11+10\log(B) = 24.31$	PASS
64	5320	MCS0	10.73	11.827	23.98 or $11+10\log(B) = 24.29$	PASS
100	5500	MCS0	10.78	11.964	23.98 or $11+10\log(B) = 24.24$	PASS
116	5580	MCS0	10.76	11.909	23.98 or $11+10\log(B) = 24.21$	PASS
140	5700	MCS0	10.84	12.130	23.98 or $11+10\log(B) = 24.33$	PASS
144	5720(U-NII 2C)	MCS0	9.40	8.72	23.98 or $11+10\log(B) = 24.43$	PASS
144	5720 (U-NII 3)	MCS0	5.15	3.28	30	PASS
149	5745	MCS0	10.81	12.047	30	PASS
157	5785	MCS0	10.87	12.215	30	PASS
165	5825	MCS0	10.90	12.299	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	MCS8	8.14	7.47	10.99	12.552	30		PASS
44	5220	MCS8	8.21	7.34	10.97	12.491	30		PASS
48	5240	MCS8	8.34	7.18	10.97	12.496	30		PASS
52	5260	MCS8	8.34	7.2	10.98	12.521	23.98	or $11+10\log(B) = 24.26$	PASS
60	5300	MCS8	8.31	7.27	10.99	12.561	23.98	or $11+10\log(B) = 24.19$	PASS
64	5320	MCS8	8.29	7.25	10.97	12.503	23.98	or $11+10\log(B) = 24.14$	PASS
100	5500	MCS8	7.89	7.74	10.98	12.545	23.98	or $11+10\log(B) = 24.21$	PASS
116	5580	MCS8	7.84	7.77	10.97	12.515	23.98	or $11+10\log(B) = 24.20$	PASS
140	5700	MCS8	7.86	7.75	10.97	12.515	23.98	or $11+10\log(B) = 24.23$	PASS
144	5720(U-NII 2C)	MCS8	6.57	6.27	9.62	9.152	23.98	or $11+10\log(B) = 24.29$	PASS
144	5720 (U-NII 3)	MCS8	2.15	2.02	5.20	3.310	30		PASS
149	5745	MCS8	7.83	7.78	10.97	12.515	30		PASS
157	5785	MCS8	7.88	7.7	10.96	12.474	30		PASS
165	5825	MCS8	7.99	7.61	10.97	12.512	30		PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	10.90	12.315	30		PASS
46	5230	MCS0	10.94	12.429	30		PASS
54	5270	MCS0	10.88	12.259	23.98	or $11+10\log(B) = 26.99$	PASS
62	5310	MCS0	10.87	12.231	23.98	or $11+10\log(B) = 27.00$	PASS
102	5510	MCS0	10.94	12.429	23.98	or $11+10\log(B) = 27.01$	PASS
110	5550	MCS0	10.93	12.401	23.98	or $11+10\log(B) = 27.00$	PASS
134	5670	MCS0	10.90	12.315	23.98	or $11+10\log(B) = 26.93$	PASS
142	5710(U-NII 2C)	MCS0	10.32	10.76	23.98	or $11+10\log(B) = 26.99$	PASS
142	5710 (U-NII 3)	MCS0	1.76	1.50	30		PASS
151	5755	MCS0	10.87	12.231	30		PASS
159	5795	MCS0	10.85	12.174	30		PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	10.88	12.259	30		PASS
46	5230	MCS0	10.79	12.007	30		PASS
54	5270	MCS0	10.84	12.146	23.98	or $11+10\log(B) = 27.07$	PASS
62	5310	MCS0	10.85	12.174	23.98	or $11+10\log(B) = 27.11$	PASS
102	5510	MCS0	10.86	12.202	23.98	or $11+10\log(B) = 27.08$	PASS
110	5550	MCS0	10.88	12.259	23.98	or $11+10\log(B) = 27.10$	PASS
134	5670	MCS0	10.87	12.231	23.98	or $11+10\log(B) = 27.11$	PASS
142	5710(U-NII 2C)	MCS0	10.24	10.57	23.98	or $11+10\log(B) = 27.12$	PASS
142	5710 (U-NII 3)	MCS0	2.12	1.63	30		PASS
151	5755	MCS0	10.83	12.118	30		PASS
159	5795	MCS0	10.84	12.146	30		PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
38	5190	MCS8	8.1	7.04	10.92	12.351	30		PASS
46	5230	MCS8	8.2	6.98	10.95	12.438	30		PASS
54	5270	MCS8	8.12	7.15	10.98	12.522	23.98	or $11+10\log(B) = 26.99$	PASS
62	5310	MCS8	8.15	7.13	10.98	12.545	23.98	or $11+10\log(B) = 27.00$	PASS
102	5510	MCS8	7.73	7.58	10.97	12.504	23.98	or $11+10\log(B) = 27.01$	PASS
110	5550	MCS8	7.65	7.6	10.94	12.416	23.98	or $11+10\log(B) = 27.00$	PASS
134	5670	MCS8	7.72	7.61	10.98	12.532	23.98	or $11+10\log(B) = 26.93$	PASS
142	5710(U-NII 2C)	MCS8	7.11	6.99	10.39	10.948	23.98	or $11+10\log(B) = 26.99$	PASS
142	5720 (U-NII 3)	MCS8	-1.45	-1.14	1.83	1.525	30		PASS
151	5755	MCS8	7.62	7.55	10.90	12.302	30		PASS
159	5795	MCS8	7.67	7.56	10.93	12.388	30		PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	10.93	12.391	30	PASS
58	5290	MCS0	10.91	12.334	23.98 or $11+10\log(B) = 30.13$	PASS
106	5530	MCS0	10.87	12.221	23.98 or $11+10\log(B) = 30.11$	PASS
122	5610	MCS0	10.89	12.277	23.98 or $11+10\log(B) = 30.15$	PASS
138	5690(U-NII 2C)	MCS0	10.58	11.43	23.98 or $11+10\log(B) = 30.14$	PASS
138	5690 (U-NII 3)	MCS0	-0.45	0.90	30	PASS
155	5775	MCS0	10.85	12.165	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	10.64	11.591	30	PASS
58	5290	MCS0	10.83	12.109	23.98 or $11+10\log(B) = 30.16$	PASS
106	5530	MCS0	10.86	12.193	23.98 or $11+10\log(B) = 30.19$	PASS
122	5610	MCS0	10.77	11.943	23.98 or $11+10\log(B) = 30.16$	PASS
138	5690(U-NII 2C)	MCS0	10.56	11.39	23.98 or $11+10\log(B) = 30.11$	PASS
138	5690 (U-NII 3)	MCS0	-0.65	0.86	30	PASS
155	5775	MCS0	10.83	12.109	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	8.24	6.9	10.96	12.482	30	PASS
58	5290	MCS0	8.1	7.02	10.93	12.402	23.98 or $11+10\log(B) = 30.13$	PASS
106	5530	MCS0	7.89	7.35	10.97	12.502	23.98 or $11+10\log(B) = 30.11$	PASS
122	5610	MCS0	7.86	7.41	10.98	12.538	23.98 or $11+10\log(B) = 30.15$	PASS
138	5690(U-NII 2C)	MCS0	7.33	7.26	10.63	11.565	23.98 or $11+10\log(B) = 30.11$	PASS
138	5690 (U-NII 3)	MCS0	-3.70	-3.95	-0.40	0.913	30	PASS
155	5775	MCS0	7.62	7.43	10.87	12.211	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	Mobile and portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			

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Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. 802.11n/ac MIMO mode: offset is set following “measure and add $10 \log(N)$ ” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + $10 \log(N)$, where N is number of transmitting antenna. N=3 for this given application.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add $10 \log(N)$ technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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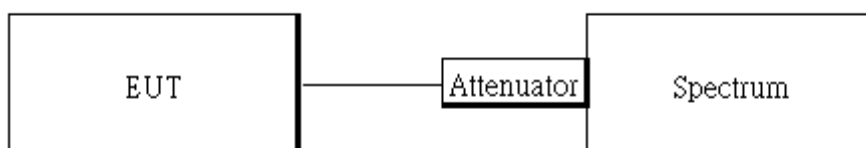
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10.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020

10.4 Test Set-up



10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	0.47	-	0.47	17.00	-16.53
5220.00	0.10	-	0.10	17.00	-16.90
5240.00	0.03	-	0.03	17.00	-16.97
5260.00	1.26	-	1.26	11.00	-9.74
5300.00	1.13	-	1.13	11.00	-9.87
5320.00	1.45	-	1.45	11.00	-9.55
5500.00	1.53	-	1.53	11.00	-9.47
5580.00	0.09	-	0.09	11.00	-10.91
5700.00	-1.02	-	-1.02	11.00	-12.02
5720 (U-NII 2C)	1.05	-	1.05	11.00	-9.95
5720 (U-NII 3)	-3.34	-	-3.34	30.00	-33.34
5745.00	-3.93	-	-3.93	30.00	-33.93
5785.00	-1.37	-	-1.37	30.00	-31.37
5825.00	-1.77	-	-1.77	30.00	-31.77

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POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	2.47	0.16	2.63	17	-14.37
5220	2.18	0.16	2.34	17	-14.66
5240	1.16	0.16	1.32	17	-15.68
5260	1.57	0.16	1.73	11	-9.27
5300	1.26	0.16	1.42	11	-9.58
5320	1.18	0.16	1.34	11	-9.66
5500	0.61	0.16	0.77	11	-10.23
5580	0.94	0.16	1.10	11	-9.90
5700	1.61	0.16	1.77	11	-9.23
5720 (U-NII 2C)	0.90	0.16	1.06	11	-9.94
5720 (U-NII 3)	-2.85	0.16	-2.69	30	-32.69
5745	-1.94	0.16	-1.78	30	-31.78
5785	-1.83	0.16	-1.67	30	-31.67
5825	-2.26	0.16	-2.10	30	-32.10

POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-1.93	0.30	-1.63	17	-18.63
5230	-1.94	0.30	-1.64	17	-18.64
5270	-1.98	0.30	-1.68	11	-12.68
5310	-2.18	0.30	-1.88	11	-12.88
5510	-2.57	0.30	-2.27	11	-13.27
5550	-2.38	0.30	-2.08	11	-13.08
5670	-2.32	0.30	-2.02	11	-13.02
5710 (U-NII 2C)	-1.87	0.30	-1.57	11	-12.57
5710 (U-NII 3)	-6.65	0.30	-6.35	30	-36.35
5755	-5.03	0.30	-4.73	30	-34.73
5795	-5.00	0.30	-4.70	30	-34.70

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-6.47	0.33	-6.14	17	-23.14
5290	-6.99	0.33	-6.66	11	-17.66
5530	-6.69	0.33	-6.36	11	-17.36
5610	-7.18	0.33	-6.85	11	-17.85
5690 (U-NII 2C)	-6.54	0.33	-6.21	11	-17.21
5690 (U-NII 3)	-10.71	0.33	-10.38	30	-40.38
5775	-9.50	0.33	-9.17	30	-39.17

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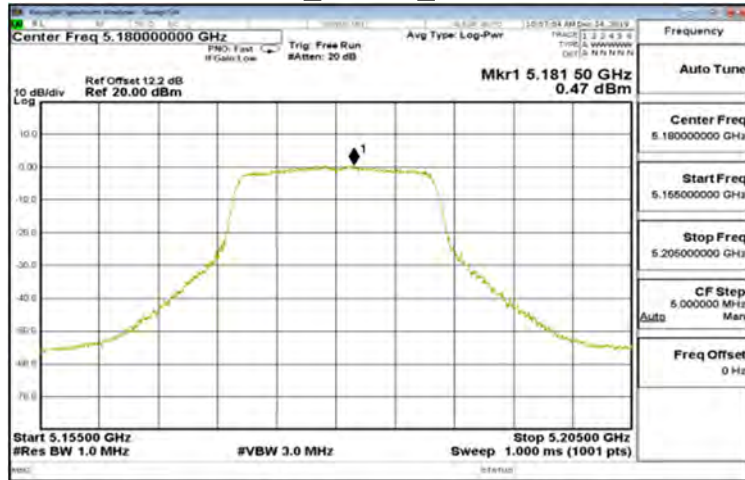
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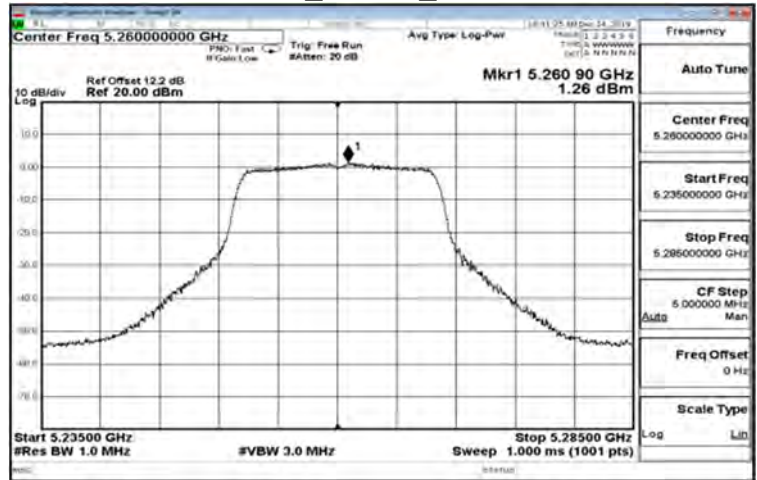
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802.11a 20MHz_5180MHz



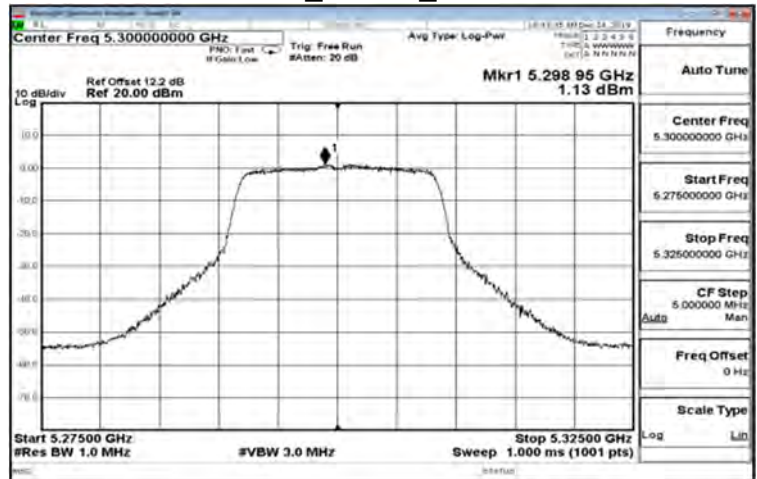
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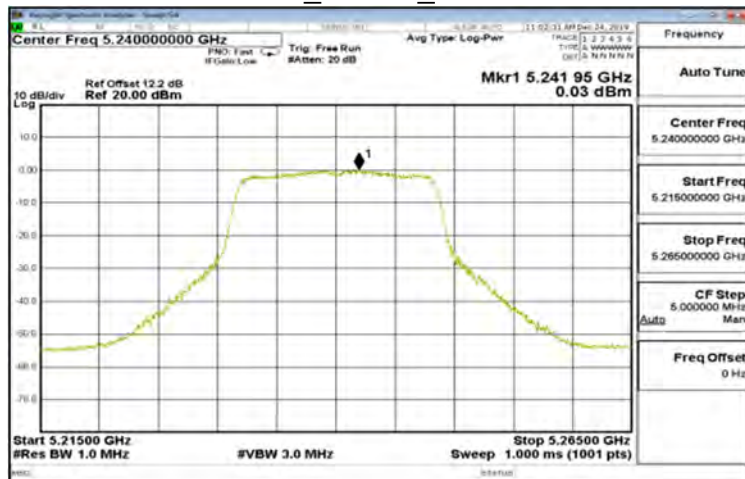
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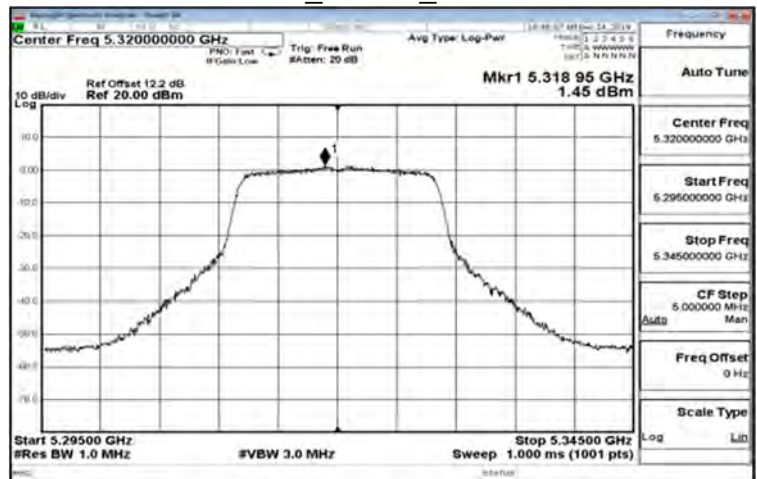
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802.11a 20MHz_5240MHz



802.11a 20MHz_5320MHz

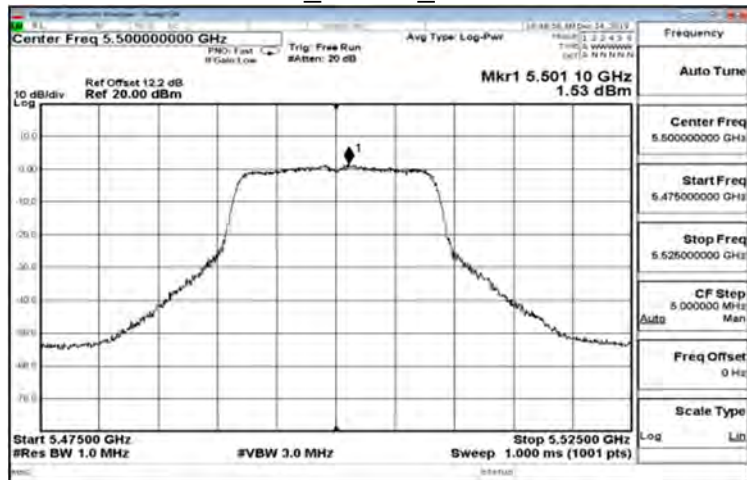


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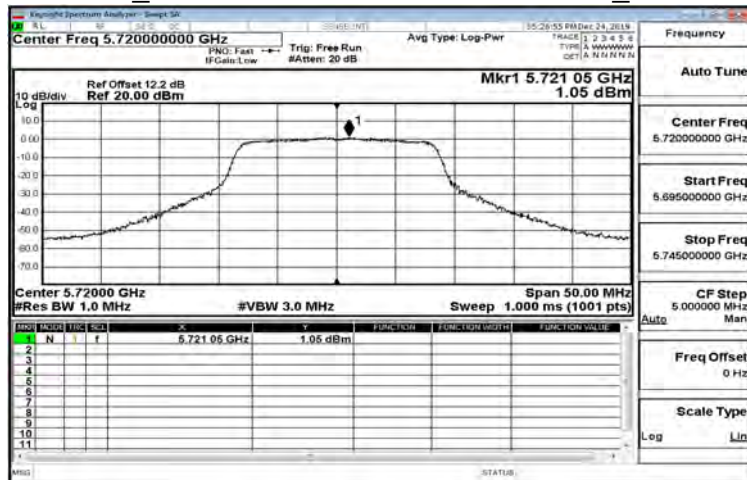
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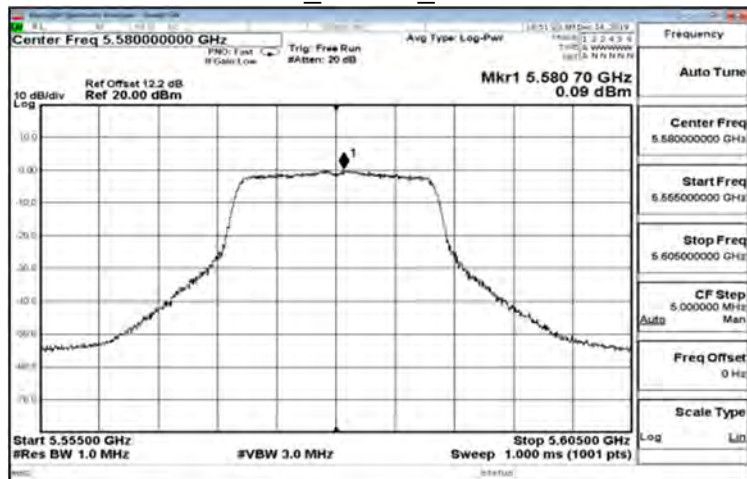
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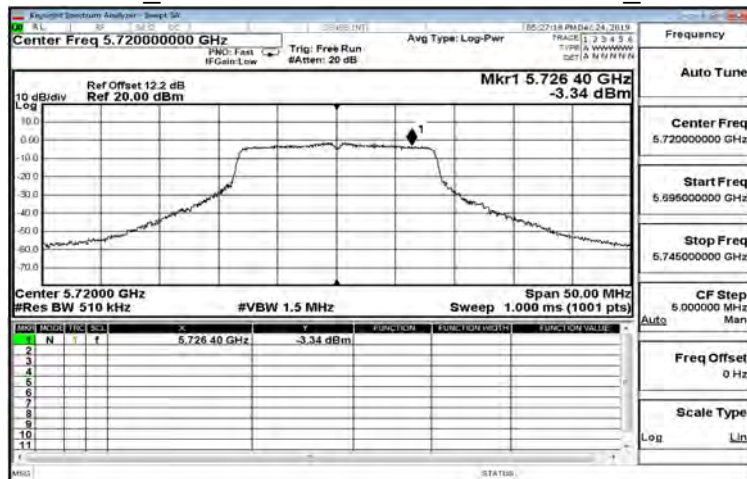
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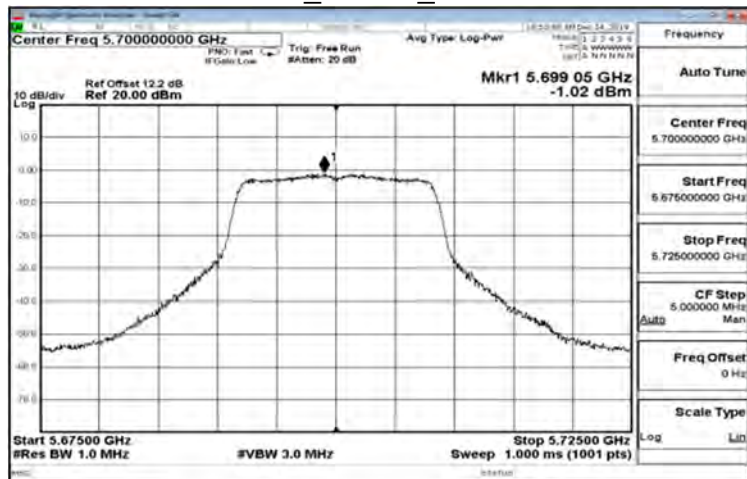
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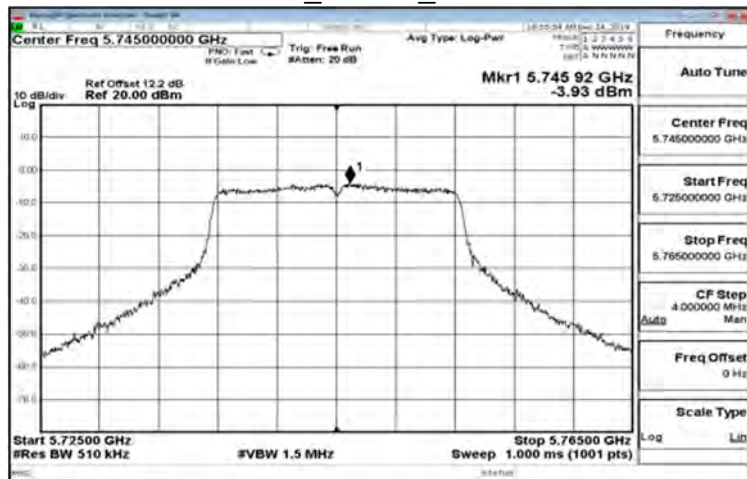
802.11a_20MHz\5720 MHz-5720\5720MHz_UNII 3



802.11a_20MHz_5700MHz



802.11a_20MHz_5745MHz



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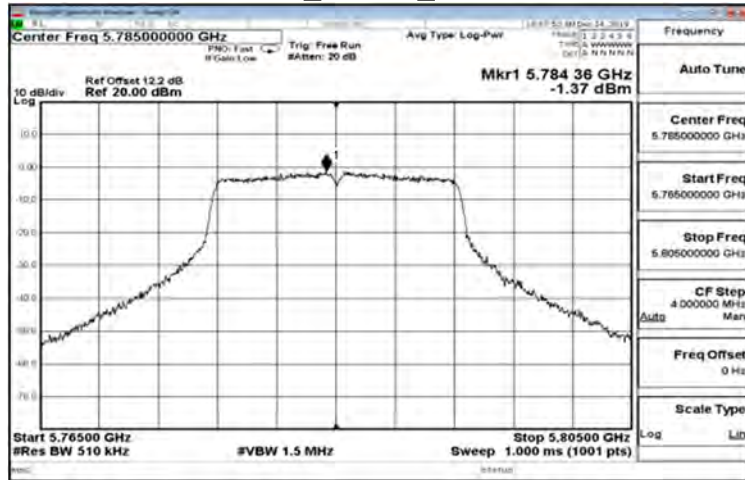
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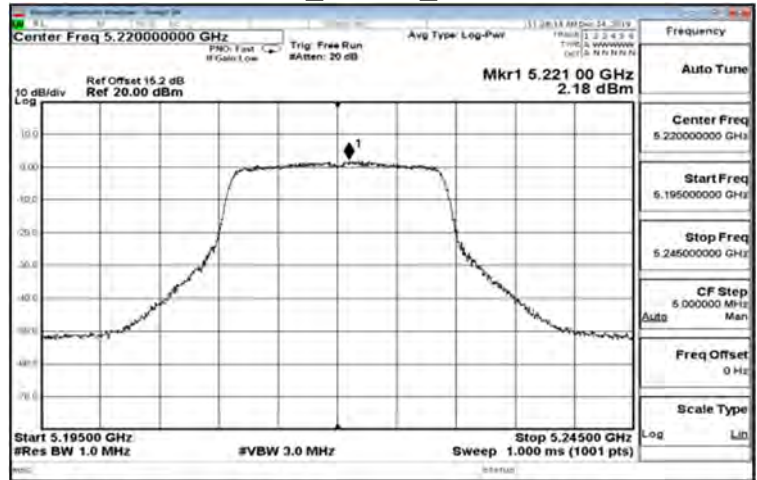
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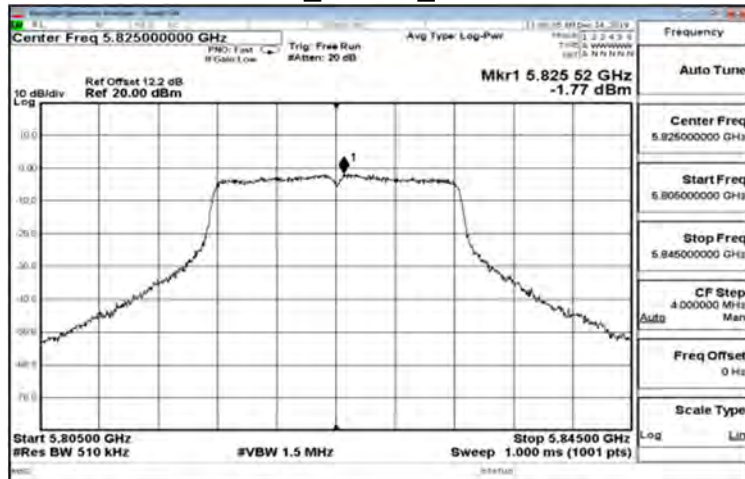
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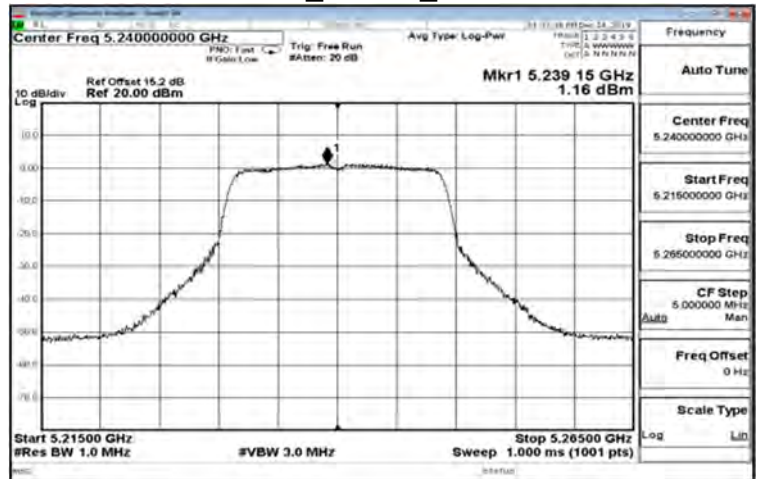
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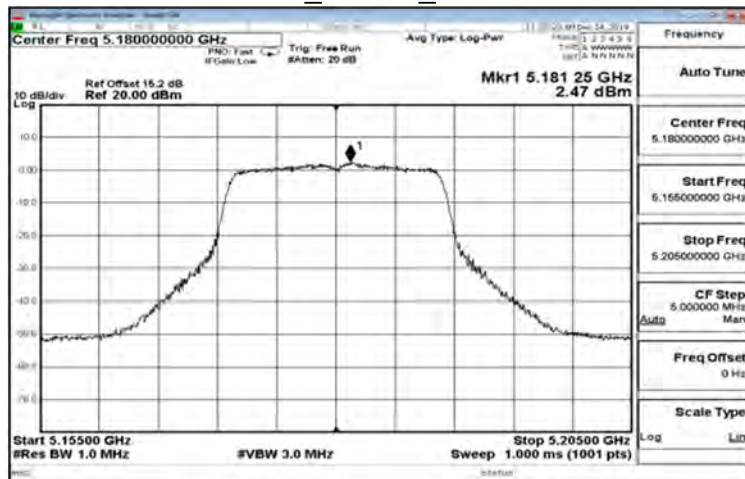
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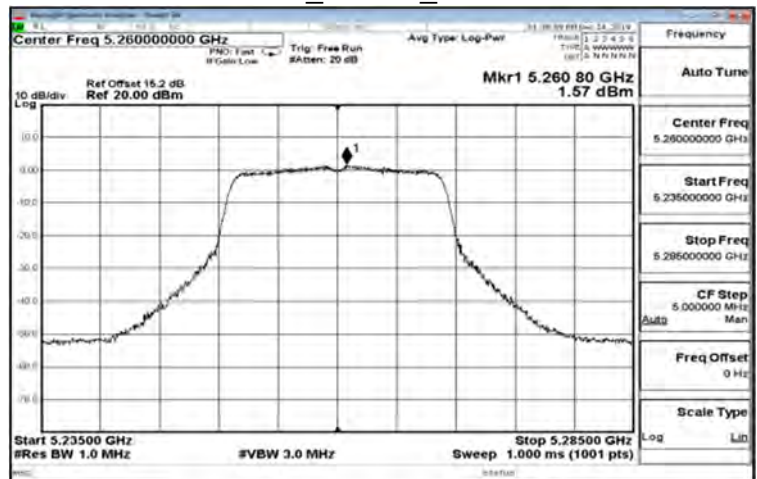
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802.11n_20MHz_5180MHz



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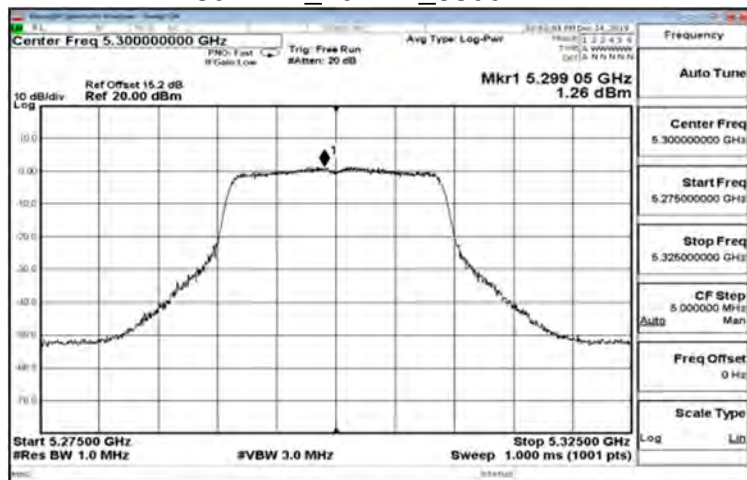


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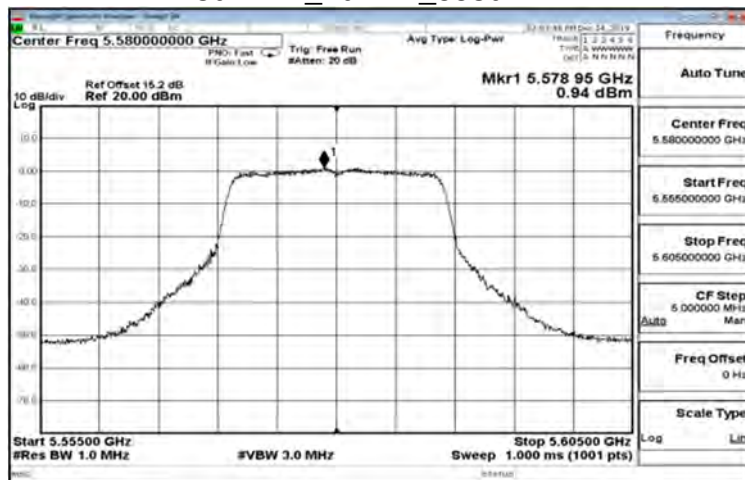
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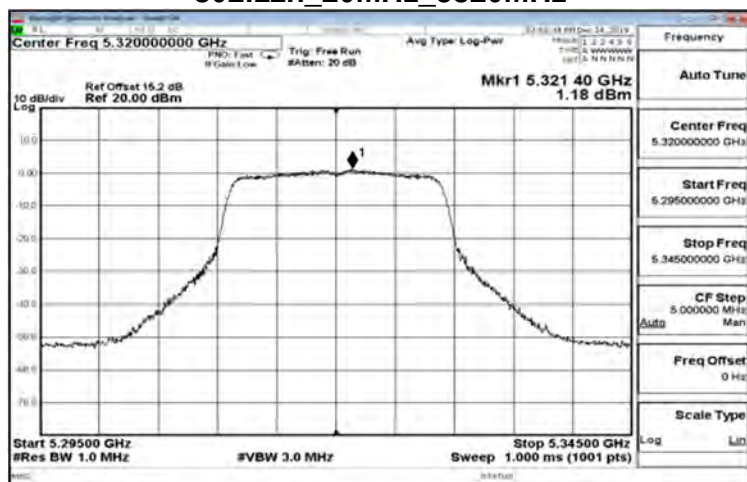
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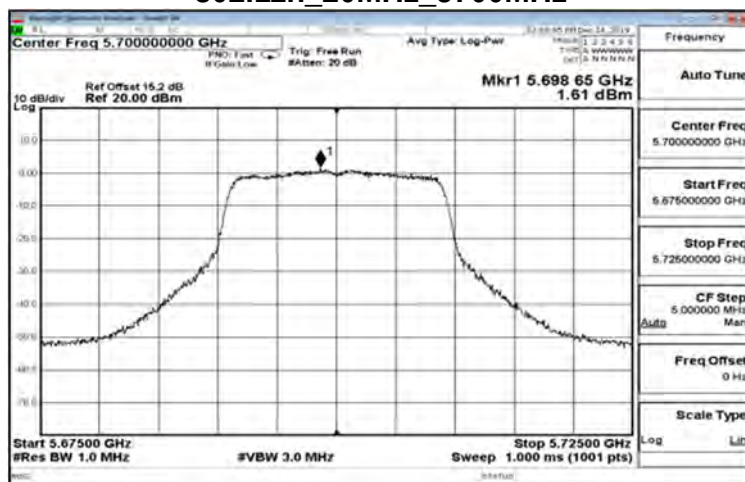
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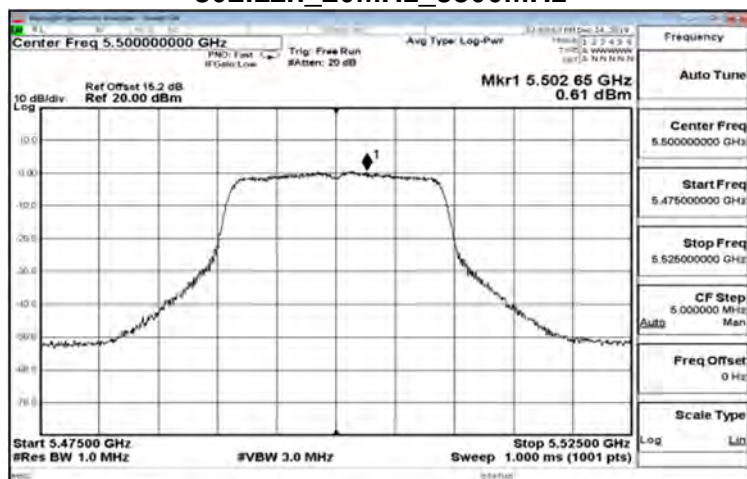
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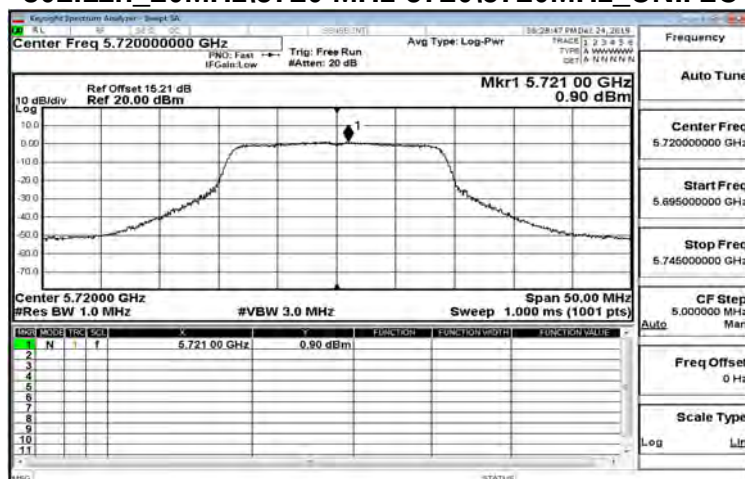
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802.11n_20MHz_5500MHz



802.11n_20MHz\5720 MHz-5720\5720MHz_UNII 2C

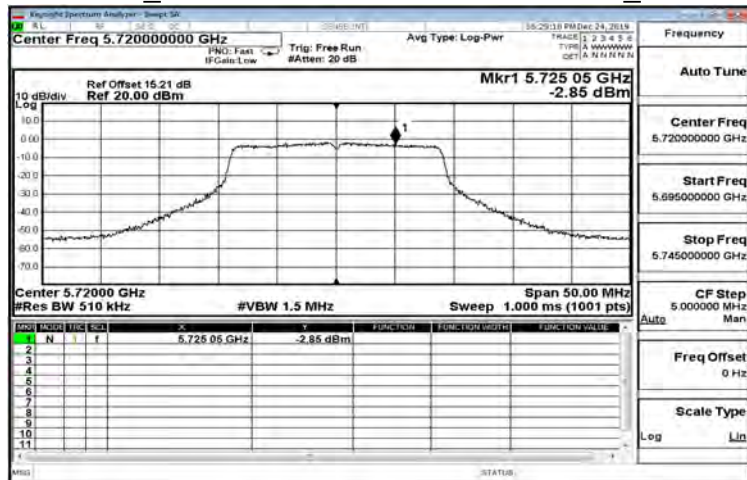


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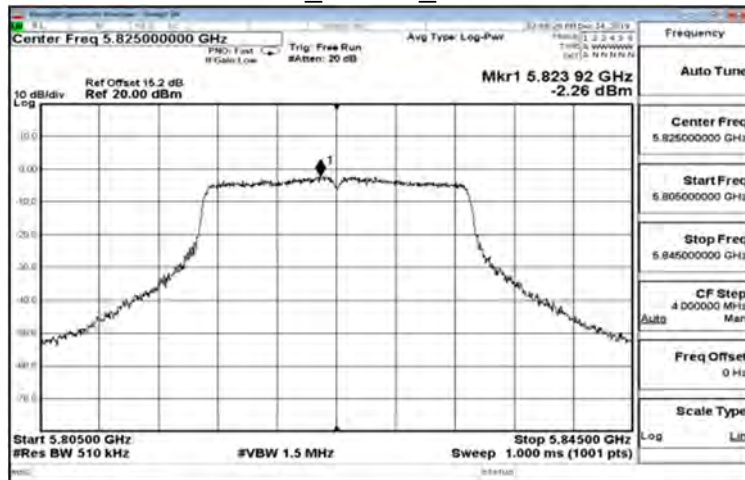
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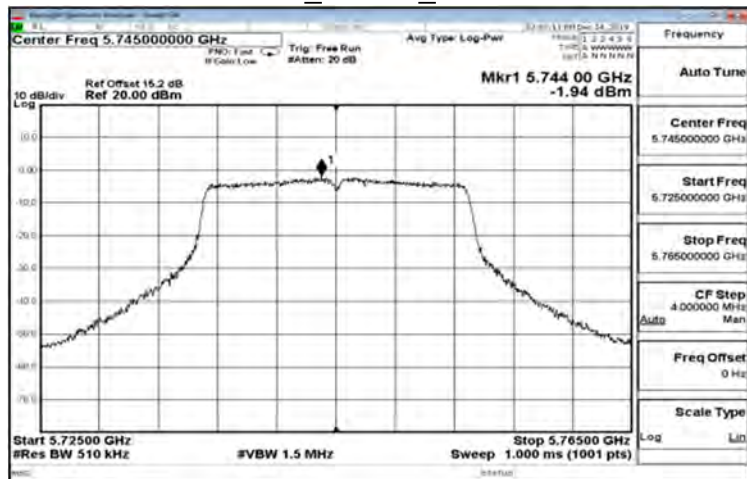
802.11n 20MHz\5720 MHz-5720\5720MHz_UNII 3



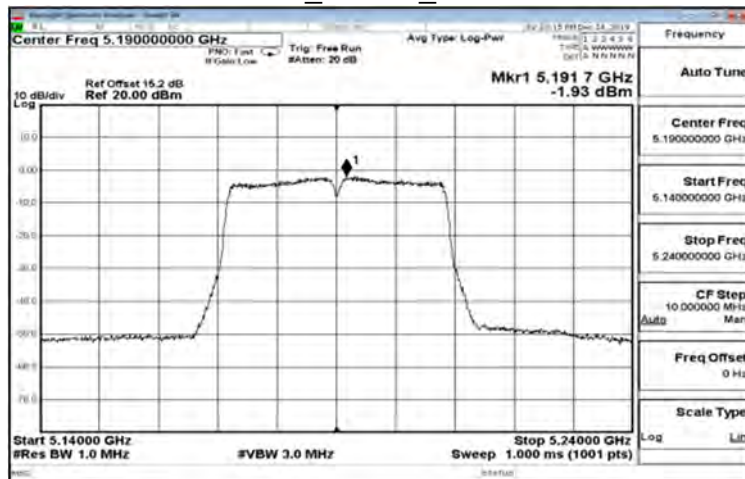
802.11n 20MHz_5825MHz



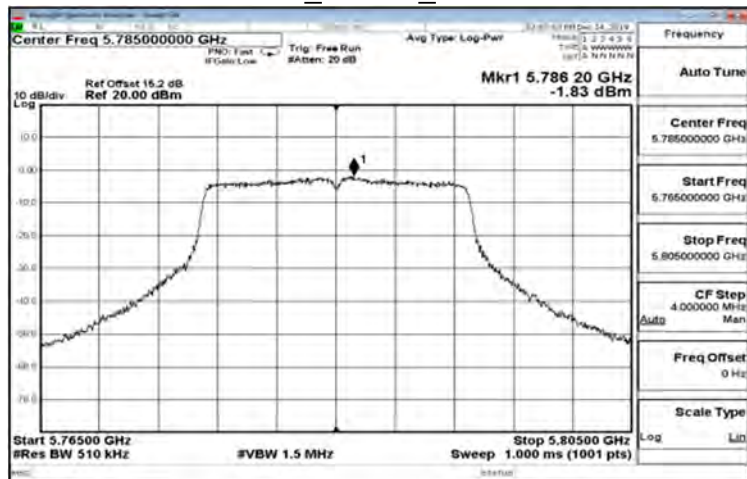
802.11n 20MHz_5745MHz



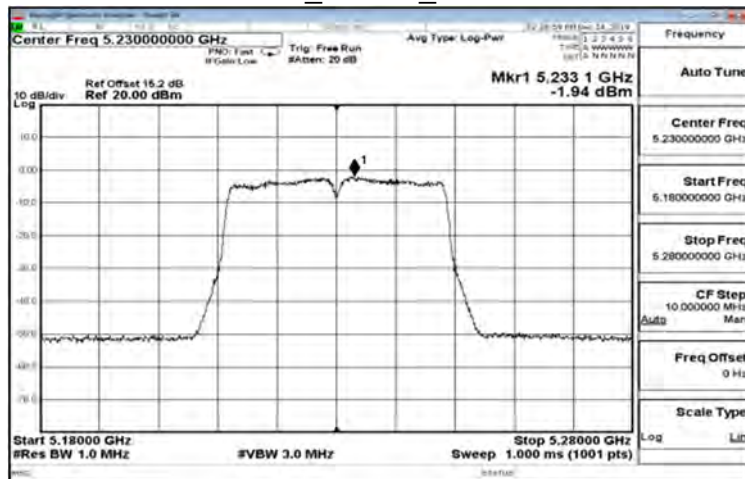
802.11n 40MHz_5190MHz



802.11n 20MHz_5785MHz



802.11n 40MHz_5230MHz

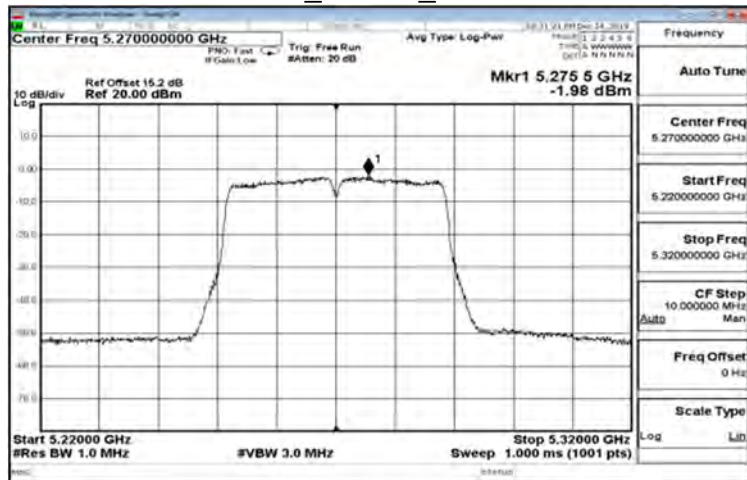


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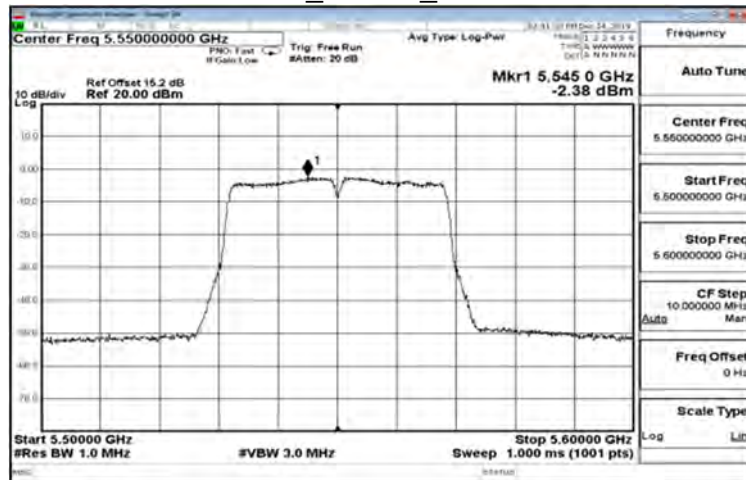
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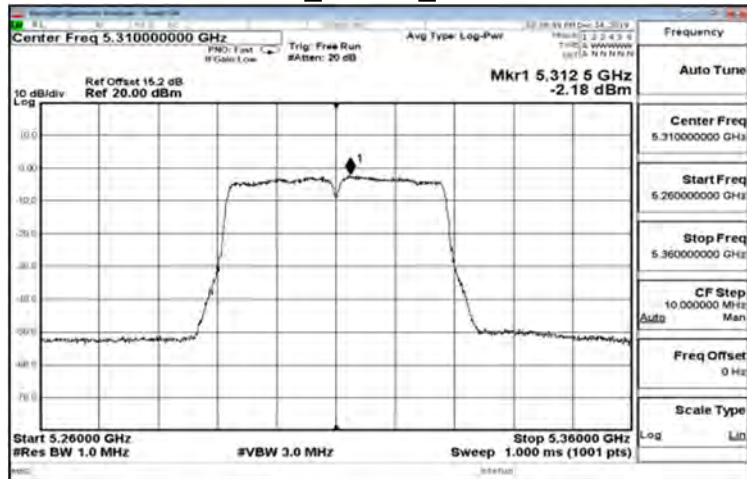
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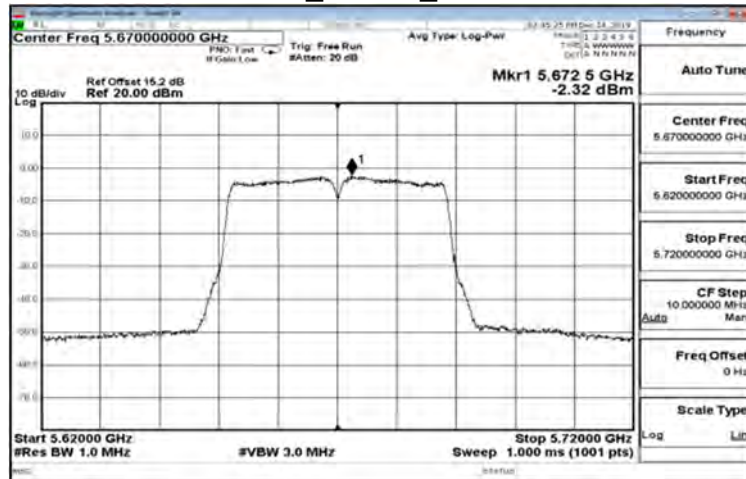
802.11n_40MHz_5550MHz



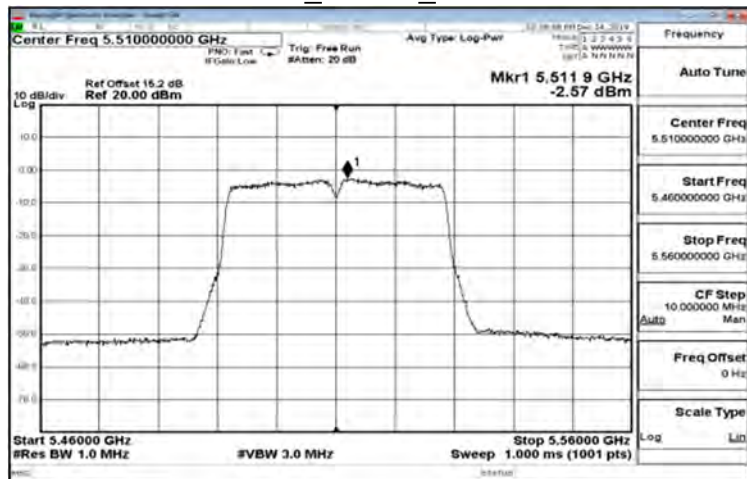
802.11n_40MHz_5310MHz



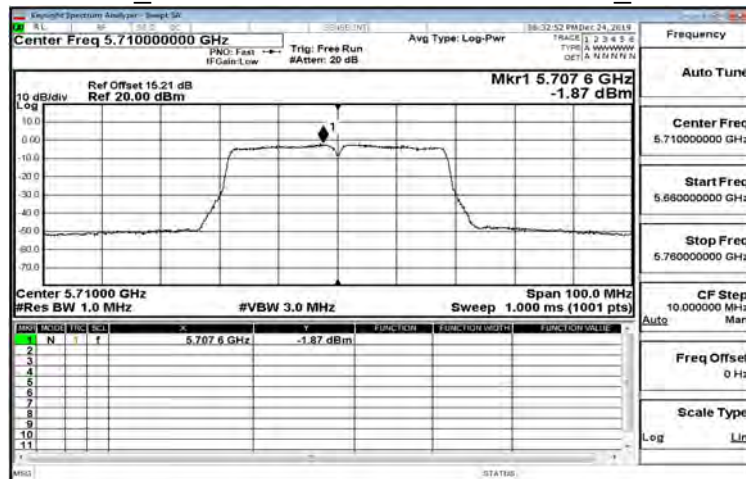
802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710 MHz-5710\5710MHz_UNII 2C

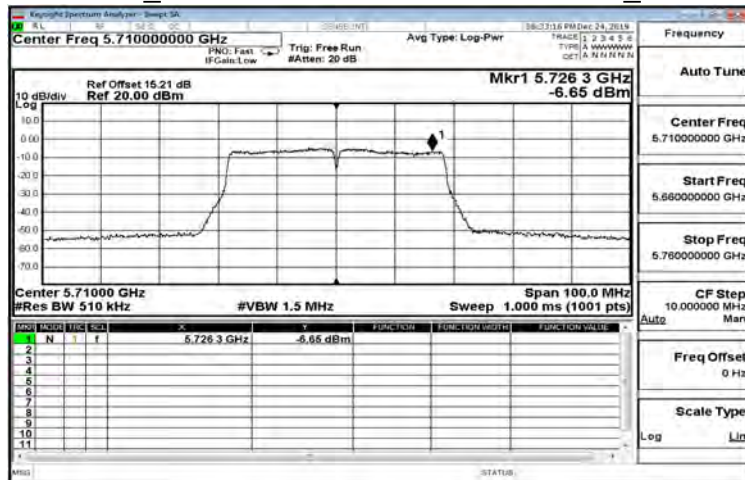


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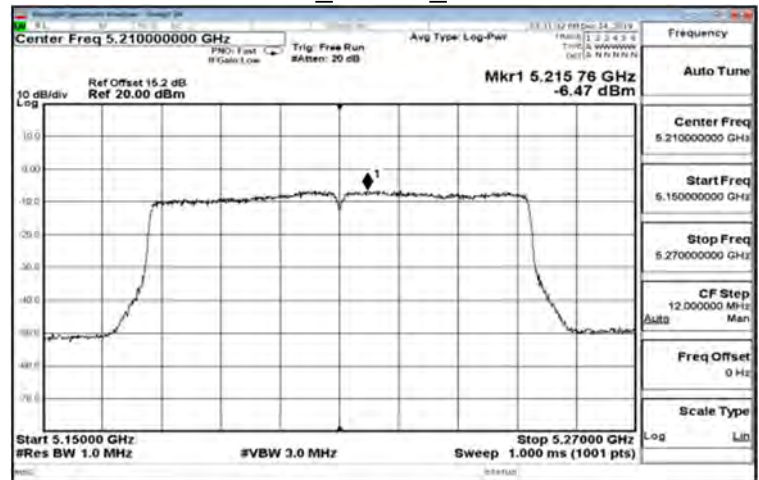
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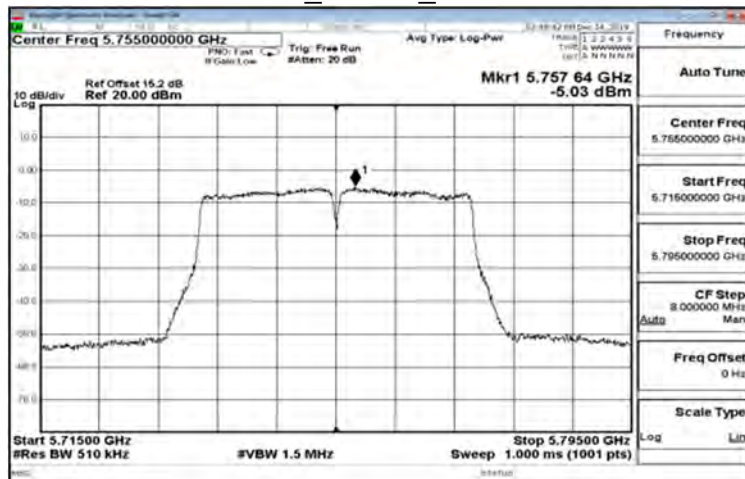
802.11n 40MHz\5710 MHz-5710\5710MHz_UNII 3



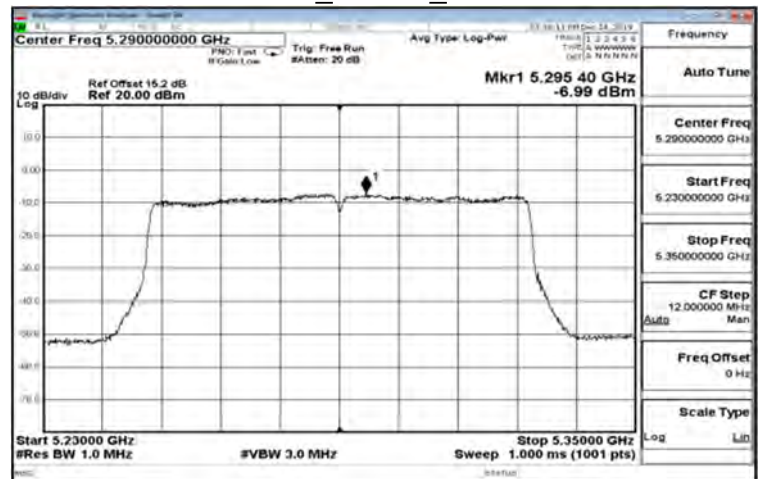
802.11ac 80MHz 5210MHz



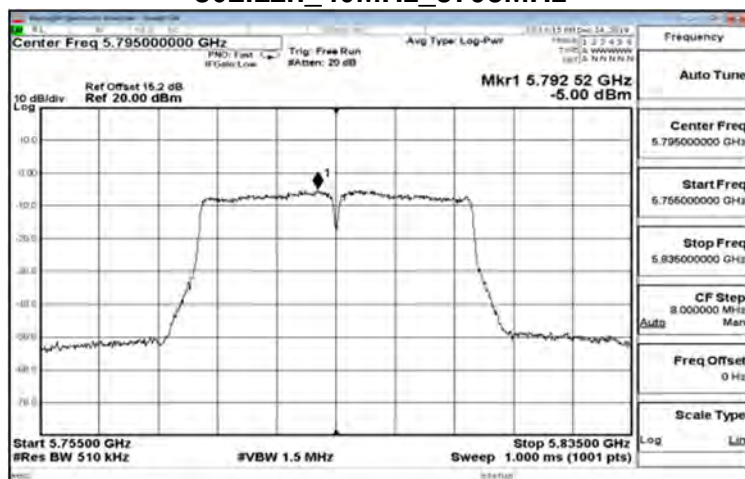
802.11n 40MHz_5755MHz



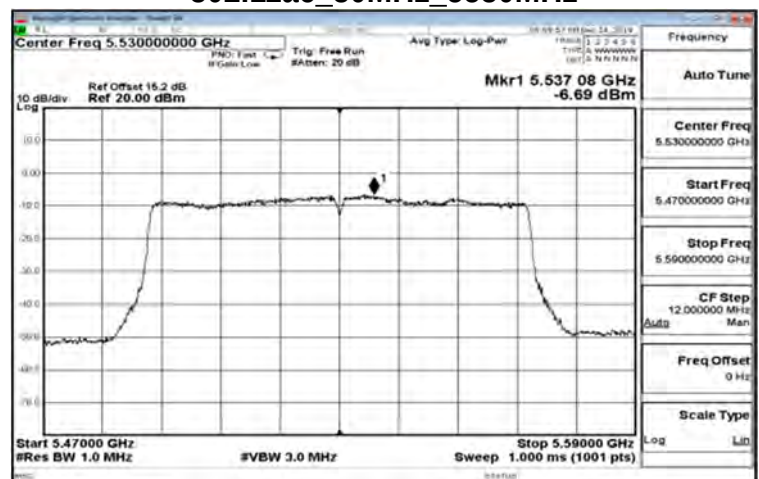
802.11ac 80MHz 5290MHz



802.11n 40MHz_5795MHz



802.11ac 80MHz_5530MHz

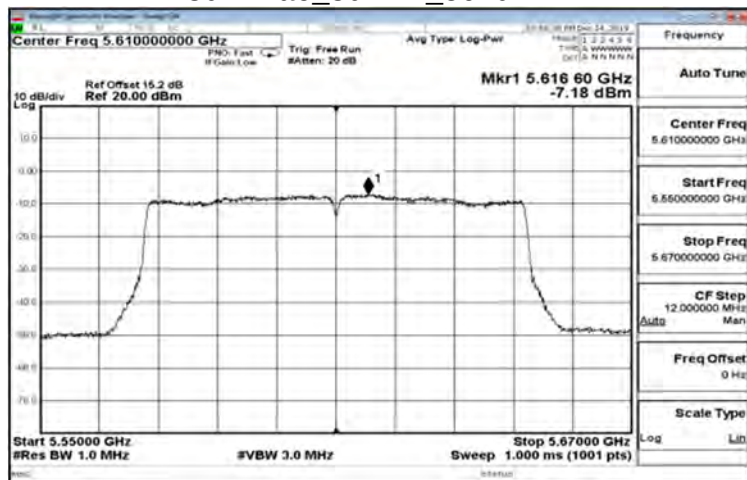


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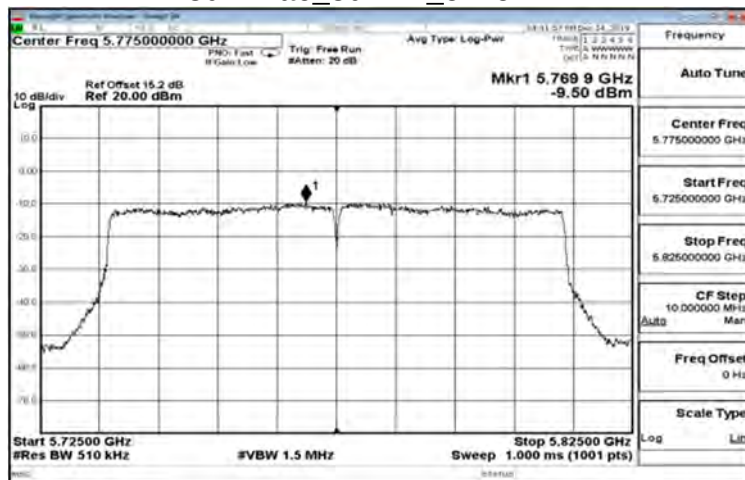
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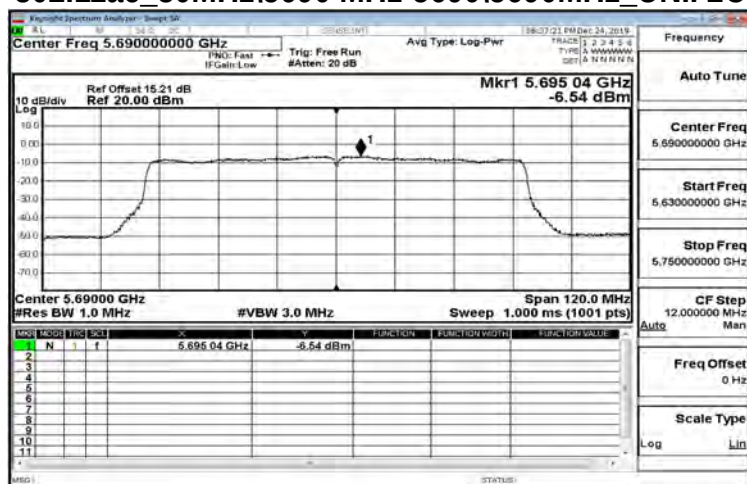
802.11ac_80MHz_5610MHz



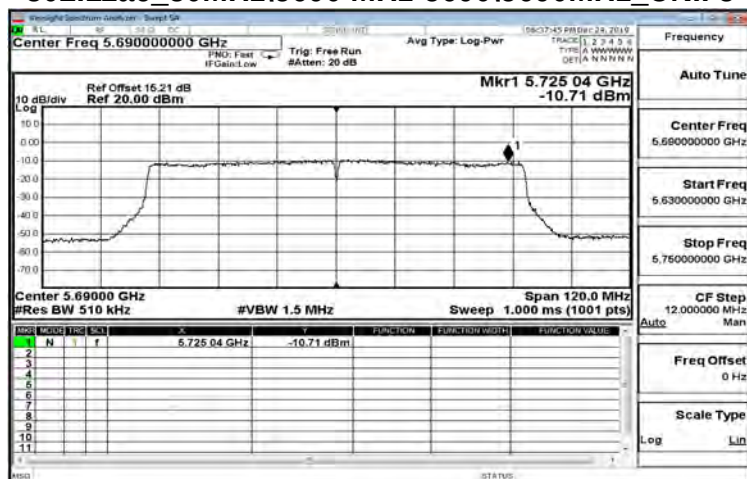
802.11ac_80MHz_5775MHz



802.11ac_80MHz\5690 MHz-5690\5690MHz_UNII 2C



802.11ac_80MHz\5690 MHz-5690\5690MHz_UNII 3



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m),
EIRP is the equivalent isotropically radiated power in Watts.

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11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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11.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/12/2019	06/11/2020
Loop Antenna	ETS.LIND-GREN	6502	143303	04/25/2019	04/24/2020
3m Site NSA	SGS	966 chamber D	N/A	07/12/2019	07/11/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	06/10/2019	06/09/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	11/20/2019	11/19/2020
Low Pass Filter	EWT	EWT-56-0019	RF46	11/20/2019	11/19/2020
Notch Filter	EWT	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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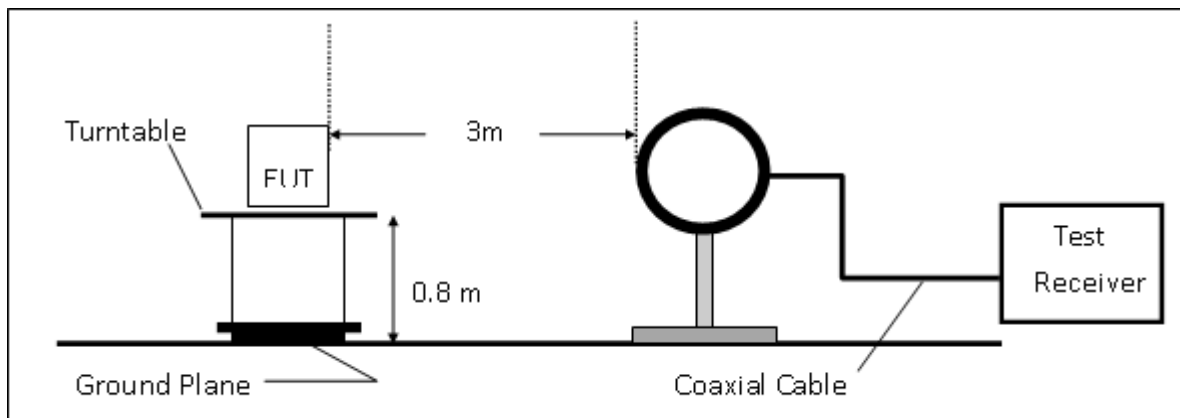
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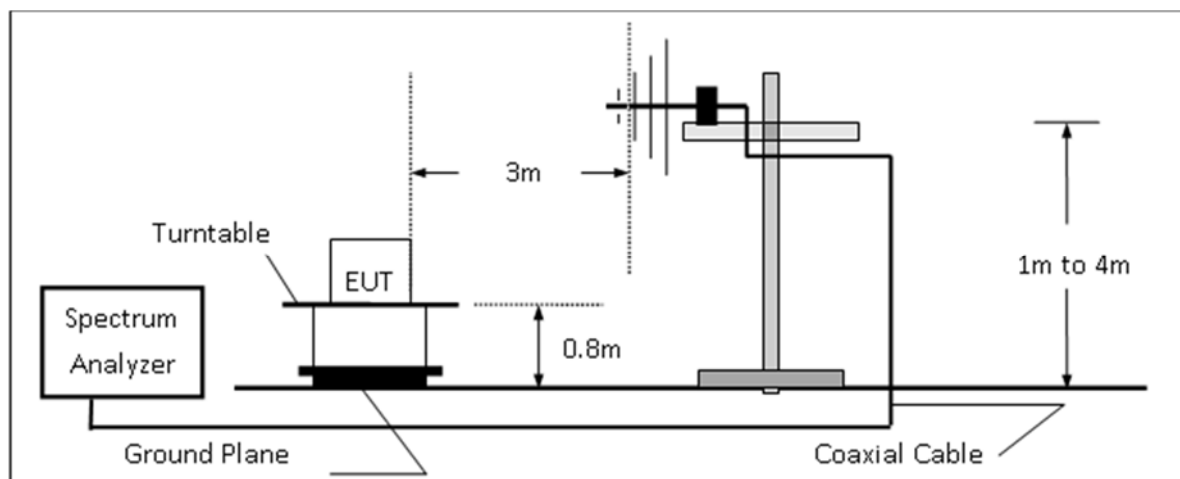
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11.3 Test SET-UP

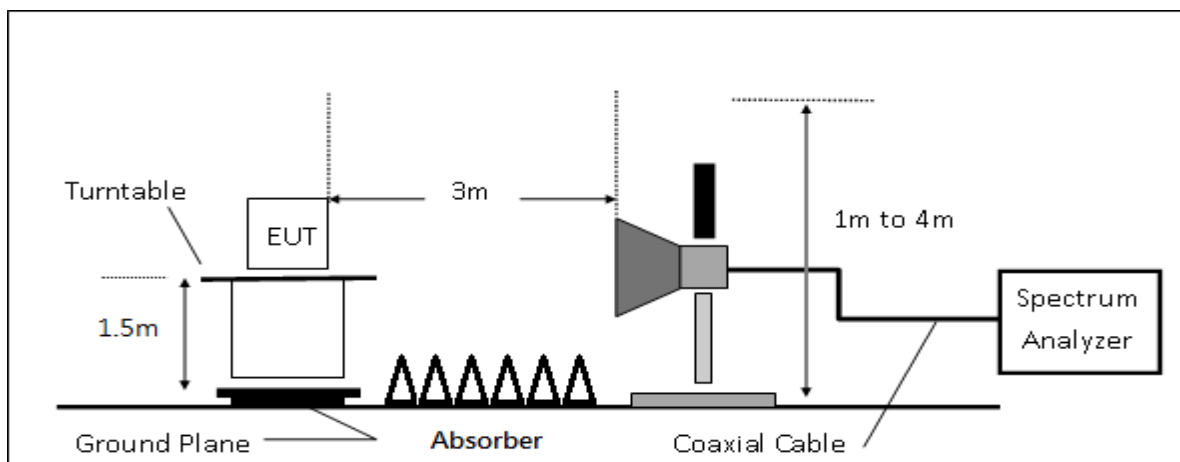
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

$Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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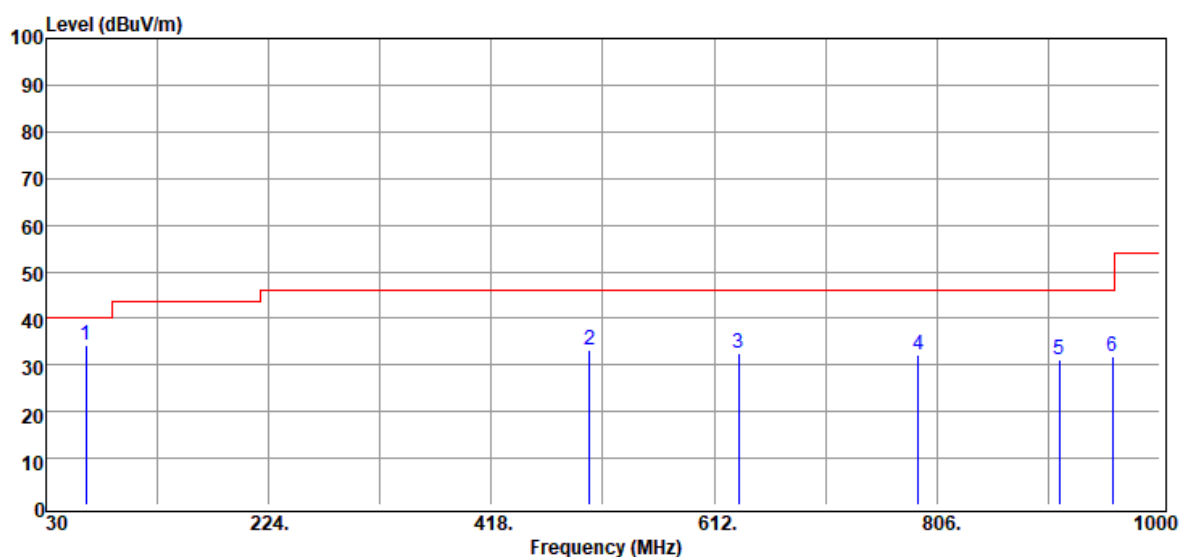
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:E2/2019/C0008	Test Date	:2019-12-21
Operation Mode	:802.11a / Band 1	Temp./Humi.	:20.5/63
Test Channel	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH MID	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.92	Peak	52.34	-18.23	34.11	40.00	-5.89
503.36	Peak	44.31	-11.18	33.13	46.00	-12.87
633.34	Peak	40.62	-8.10	32.52	46.00	-13.48
789.51	Peak	38.29	-6.15	32.14	46.00	-13.86
912.70	Peak	36.32	-5.07	31.25	46.00	-14.75
959.26	Peak	36.00	-4.34	31.66	46.00	-14.34

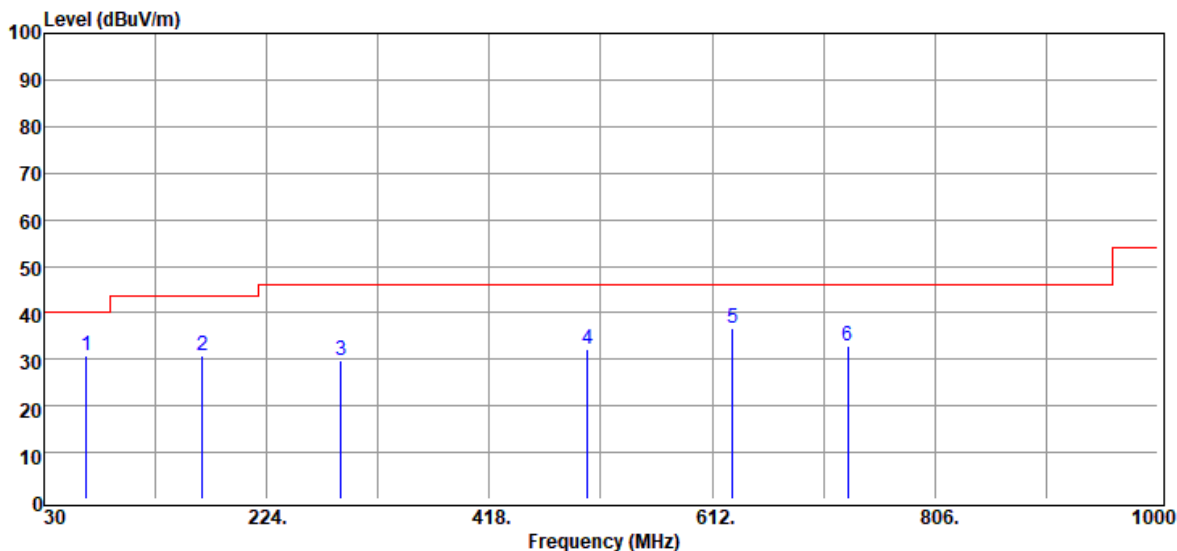
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
66.86	Peak	49.36	-18.59	30.77	40.00	-9.23
167.74	Peak	46.78	-16.04	30.74	43.50	-12.76
288.99	Peak	45.25	-15.58	29.67	46.00	-16.33
503.36	Peak	43.45	-11.18	32.27	46.00	-13.73
629.46	Peak	44.72	-8.13	36.59	46.00	-9.41
730.34	Peak	40.07	-7.14	32.93	46.00	-13.07

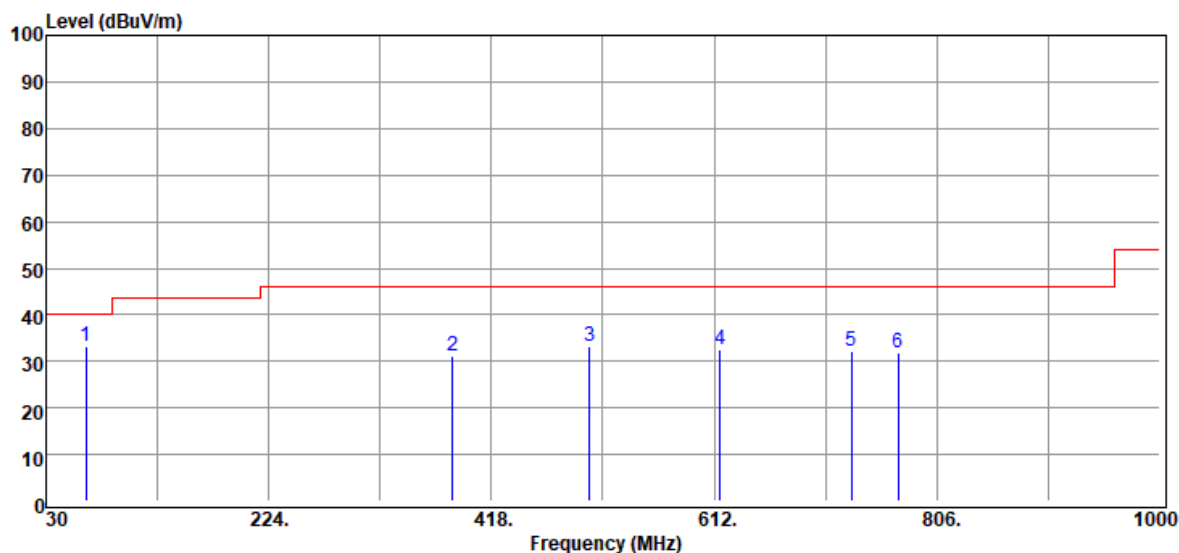
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 2
Test Channel :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
64.92	Peak	51.44	-18.23	33.21	40.00	-6.79
384.05	Peak	44.15	-13.06	31.09	46.00	-14.91
503.36	Peak	44.54	-11.18	33.36	46.00	-12.64
616.85	Peak	40.84	-8.30	32.54	46.00	-13.46
731.31	Peak	39.29	-7.15	32.14	46.00	-13.86
772.05	Peak	38.62	-6.68	31.94	46.00	-14.06

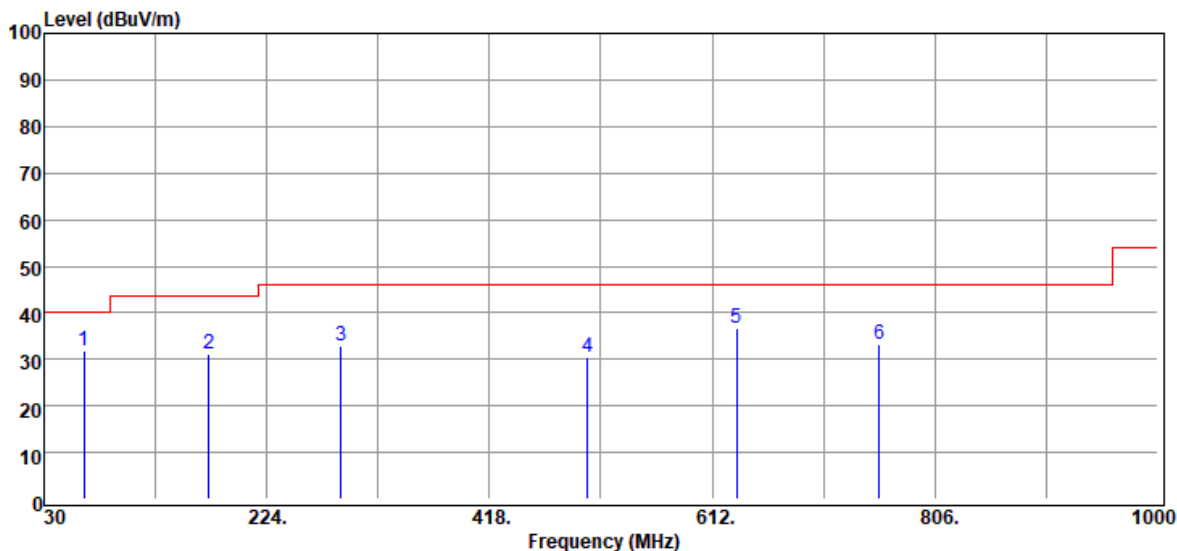
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 2
Test Channel :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.92	Peak	50.15	-18.23	31.92	40.00	-8.08
173.56	Peak	47.63	-16.41	31.22	43.50	-12.28
288.99	Peak	48.31	-15.58	32.73	46.00	-13.27
503.36	Peak	41.61	-11.18	30.43	46.00	-15.57
633.34	Peak	44.93	-8.10	36.83	46.00	-9.17
757.50	Peak	39.76	-6.65	33.11	46.00	-12.89

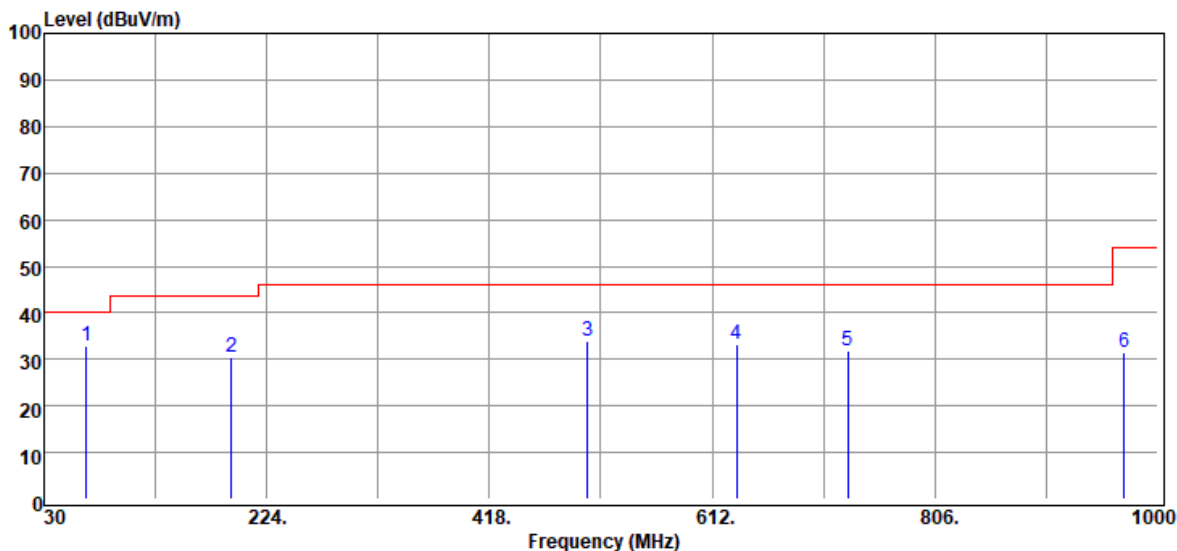
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 3
Test Channel :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.86	Peak	51.33	-18.59	32.74	40.00	-7.26
192.96	Peak	48.58	-18.30	30.28	43.50	-13.22
503.36	Peak	44.99	-11.18	33.81	46.00	-12.19
633.34	Peak	41.47	-8.10	33.37	46.00	-12.63
730.34	Peak	38.84	-7.14	31.70	46.00	-14.30
970.90	Peak	35.74	-4.09	31.65	54.00	-22.35

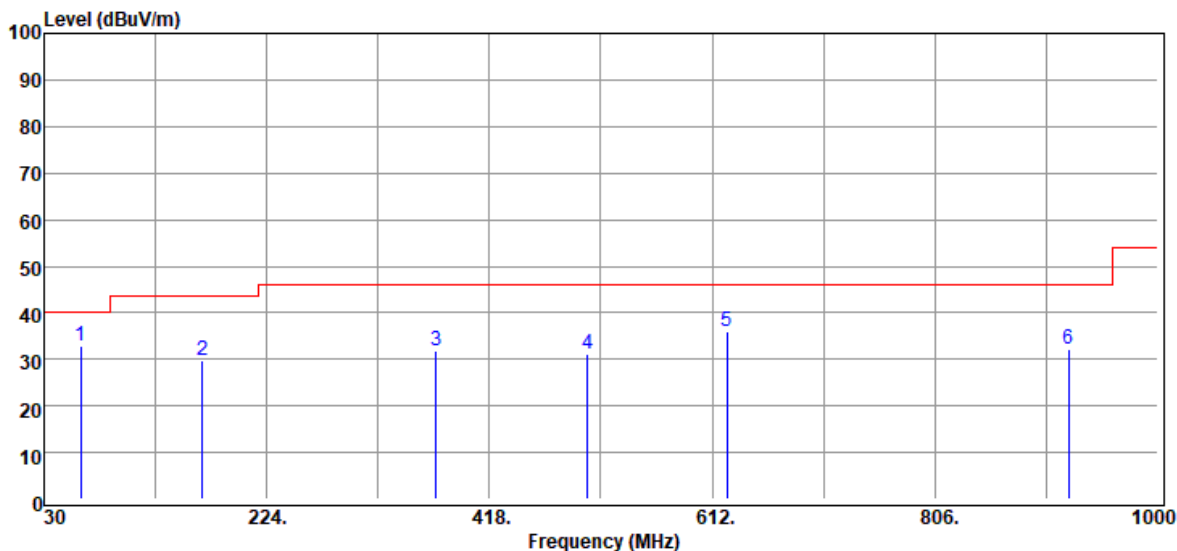
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
62.01	Peak	50.67	-17.84	32.83	40.00	-7.17
167.74	Peak	45.83	-16.04	29.79	43.50	-13.71
371.44	Peak	45.28	-13.53	31.75	46.00	-14.25
503.36	Peak	42.34	-11.18	31.16	46.00	-14.84
624.61	Peak	44.12	-8.29	35.83	46.00	-10.17
922.40	Peak	36.84	-4.77	32.07	46.00	-13.93

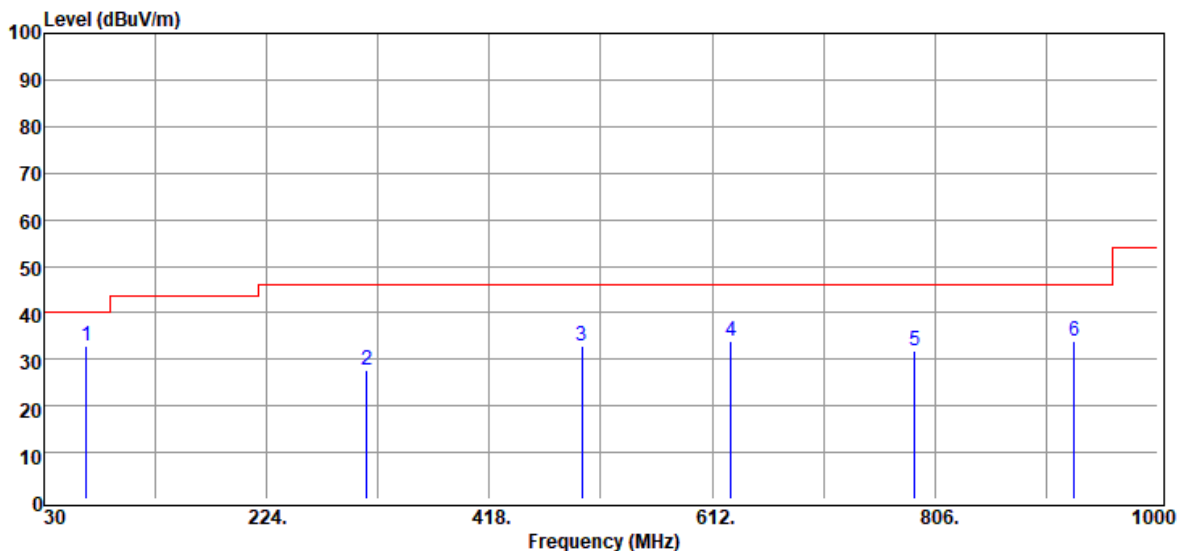
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 4
Test Channel :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.86	Peak	51.58	-18.59	32.99	40.00	-7.01
311.30	Peak	42.86	-15.18	27.68	46.00	-18.32
498.51	Peak	44.15	-11.11	33.04	46.00	-12.96
628.49	Peak	42.03	-8.16	33.87	46.00	-12.13
788.54	Peak	38.09	-6.15	31.94	46.00	-14.06
927.25	Peak	38.77	-4.79	33.98	46.00	-12.02

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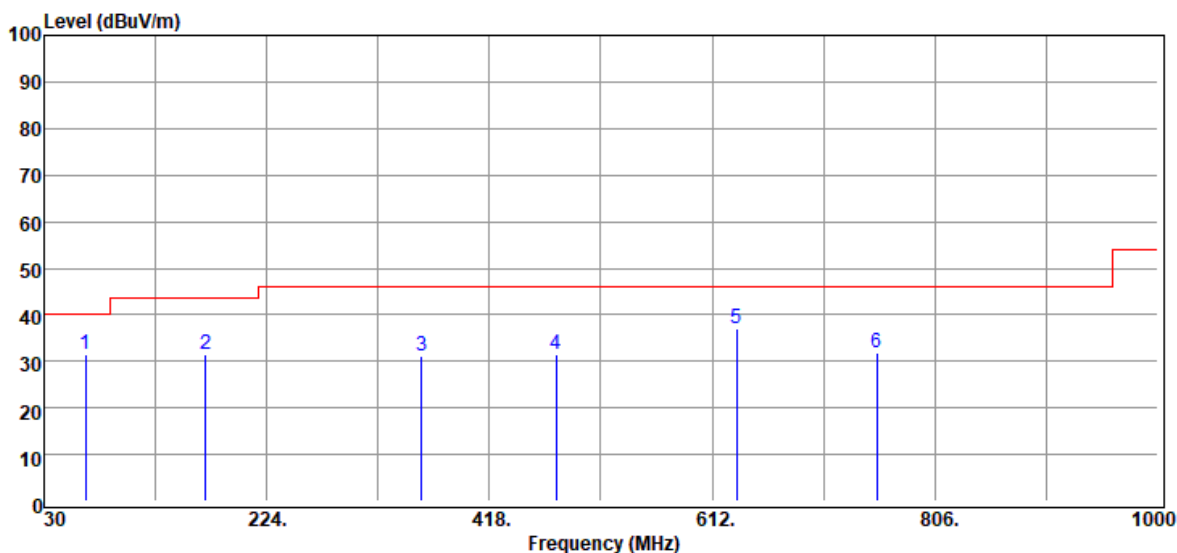
f (886-2) 2298-0488

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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 4
Test Channel :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
65.89	Peak	49.90	-18.50	31.40	40.00	-8.60
170.65	Peak	47.74	-16.22	31.52	43.50	-11.98
358.83	Peak	44.93	-13.95	30.98	46.00	-15.02
476.20	Peak	42.83	-11.25	31.58	46.00	-14.42
633.34	Peak	45.04	-8.10	36.94	46.00	-9.06
755.56	Peak	38.52	-6.63	31.89	46.00	-14.11

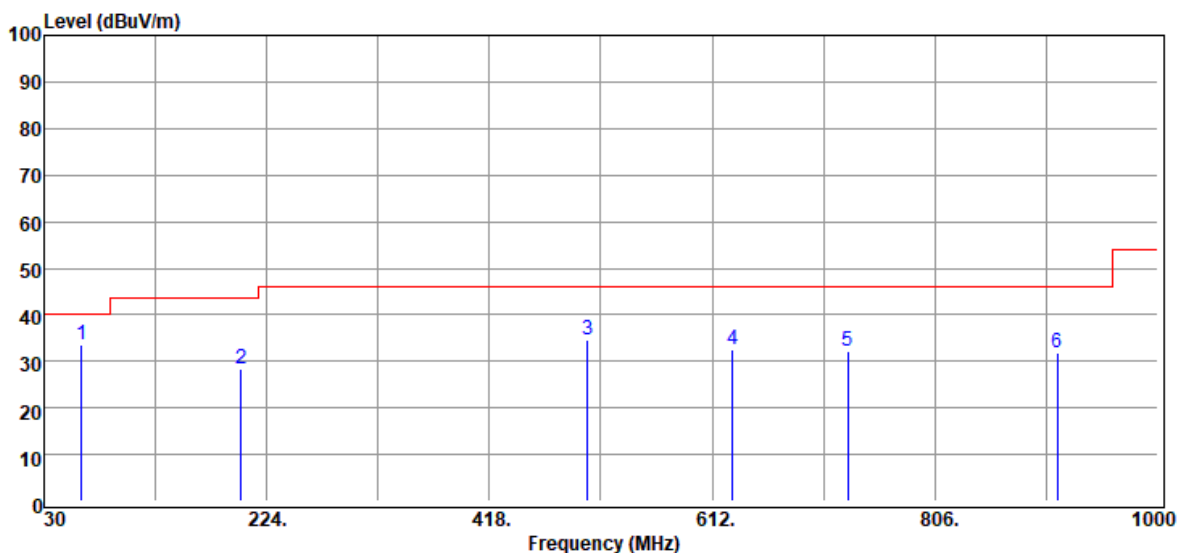
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Report Number :E2/2019/C0008
Operation Mode :802.11ac80 / Band 1
Test Channel :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	Peak	51.46	-18.01	33.45	40.00	-6.55
201.69	Peak	46.78	-18.58	28.20	43.50	-15.30
503.36	Peak	45.75	-11.18	34.57	46.00	-11.43
629.46	Peak	40.70	-8.13	32.57	46.00	-13.43
730.34	Peak	39.20	-7.14	32.06	46.00	-13.94
912.70	Peak	36.89	-5.07	31.82	46.00	-14.18

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

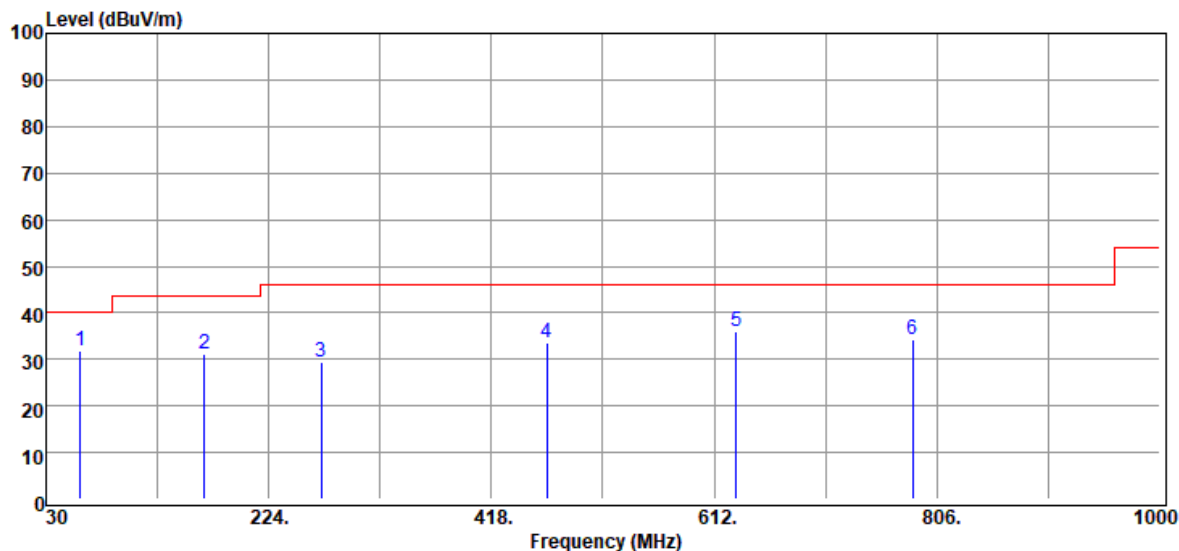
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.5/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
60.07	Peak	49.27	-17.51	31.76	40.00	-8.24
167.74	Peak	47.25	-16.04	31.21	43.50	-12.29
269.59	Peak	46.04	-16.53	29.51	46.00	-16.49
466.50	Peak	44.92	-11.38	33.54	46.00	-12.46
631.40	Peak	44.00	-8.11	35.89	46.00	-10.11
784.66	Peak	40.35	-6.17	34.18	46.00	-11.82

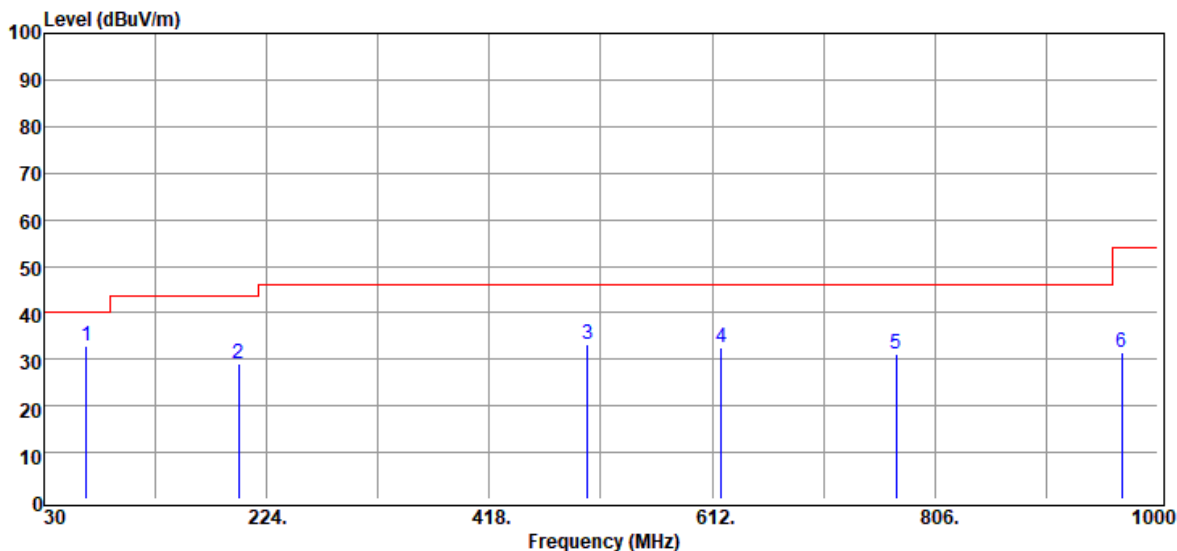
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Report Number :E2/2019/C0008
Operation Mode :802.11ac80 / Band 2
Test Channel :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
66.86	Peak	51.42	-18.59	32.83	40.00	-7.17
199.75	Peak	47.49	-18.57	28.92	43.50	-14.58
503.36	Peak	44.39	-11.18	33.21	46.00	-12.79
619.76	Peak	40.78	-8.36	32.42	46.00	-13.58
772.05	Peak	37.90	-6.68	31.22	46.00	-14.78
968.96	Peak	35.67	-4.10	31.57	54.00	-22.43

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 2

Test Channel :5290 MHz

Test Mode :TX CH HIGH

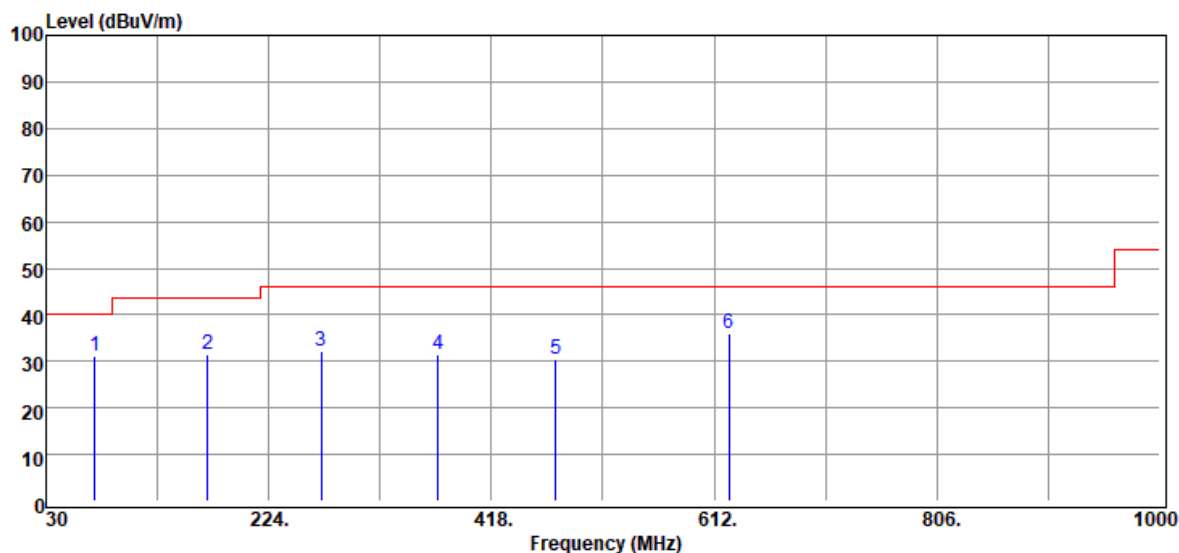
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.5/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
72.68	Peak	50.81	-19.83	30.98	40.00	-9.02
170.65	Peak	47.66	-16.22	31.44	43.50	-12.06
269.59	Peak	48.77	-16.53	32.24	46.00	-13.76
371.44	Peak	45.04	-13.53	31.51	46.00	-14.49
474.26	Peak	41.63	-11.27	30.36	46.00	-15.64
624.61	Peak	44.38	-8.29	36.09	46.00	-9.91

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t (886-2) 2299-3279

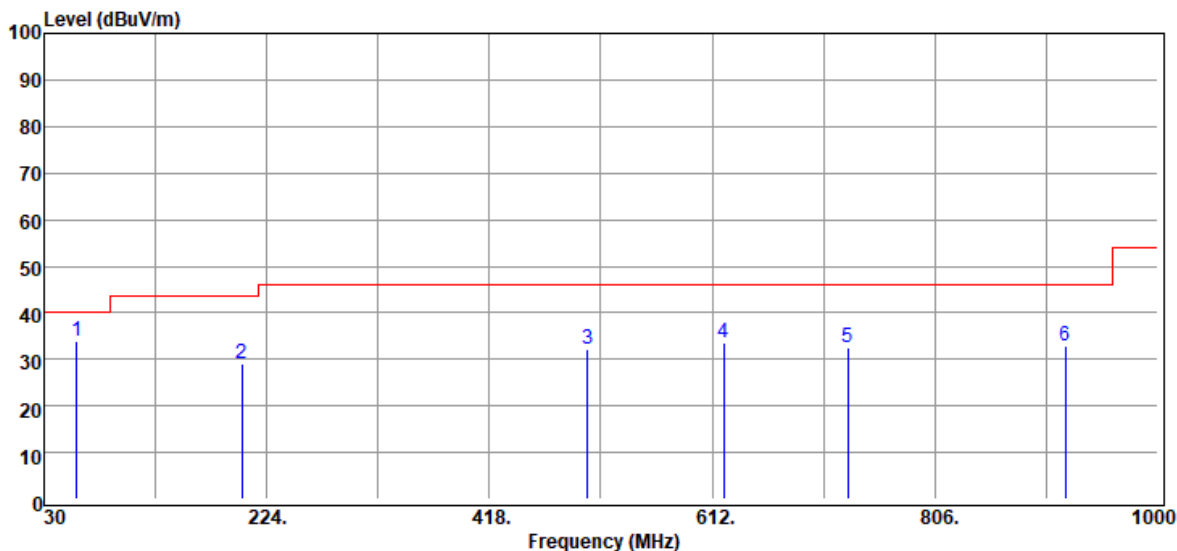
f (886-2) 2298-0488

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Report Number :E2/2019/C0008
Operation Mode :802.11ac80 / Band 3
Test Channel :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
58.13	Peak	51.28	-17.32	33.96	40.00	-6.04
202.66	Peak	47.70	-18.59	29.11	43.50	-14.39
503.36	Peak	43.49	-11.18	32.31	46.00	-13.69
621.70	Peak	41.82	-8.33	33.49	46.00	-12.51
730.34	Peak	39.66	-7.14	32.52	46.00	-13.48
919.49	Peak	37.67	-4.78	32.89	46.00	-13.11

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 3

Test Channel :5610 MHz

Test Mode :TX CH MID

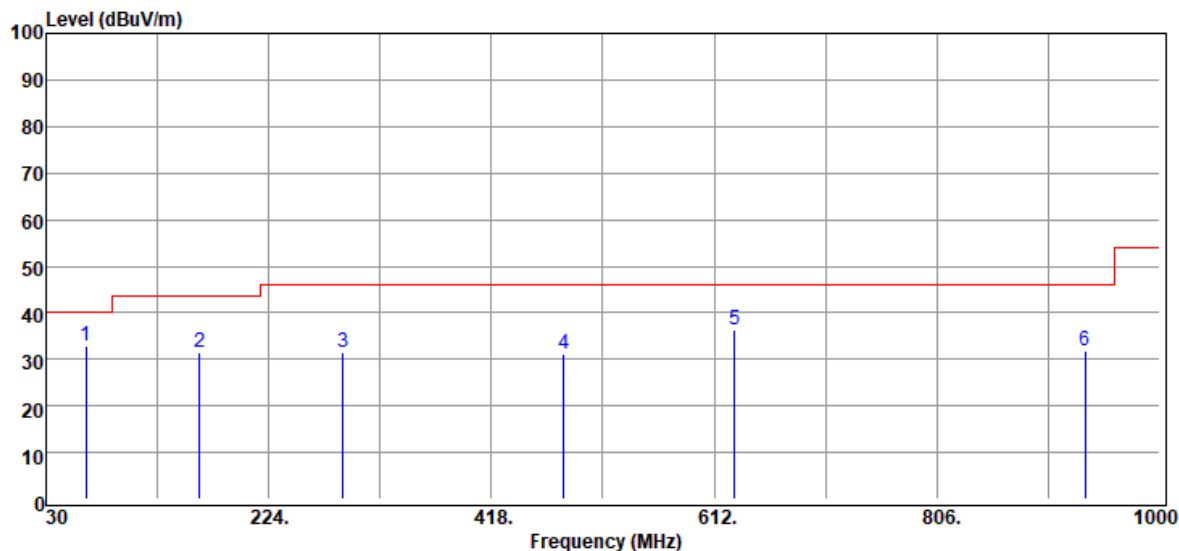
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.5/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
64.92	Peak	51.04	-18.23	32.81	40.00	-7.19
163.86	Peak	47.78	-16.14	31.64	43.50	-11.86
288.99	Peak	47.04	-15.58	31.46	46.00	-14.54
481.05	Peak	42.43	-11.21	31.22	46.00	-14.78
629.46	Peak	44.52	-8.13	36.39	46.00	-9.61
935.01	Peak	36.45	-4.72	31.73	46.00	-14.27

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t (886-2) 2299-3279

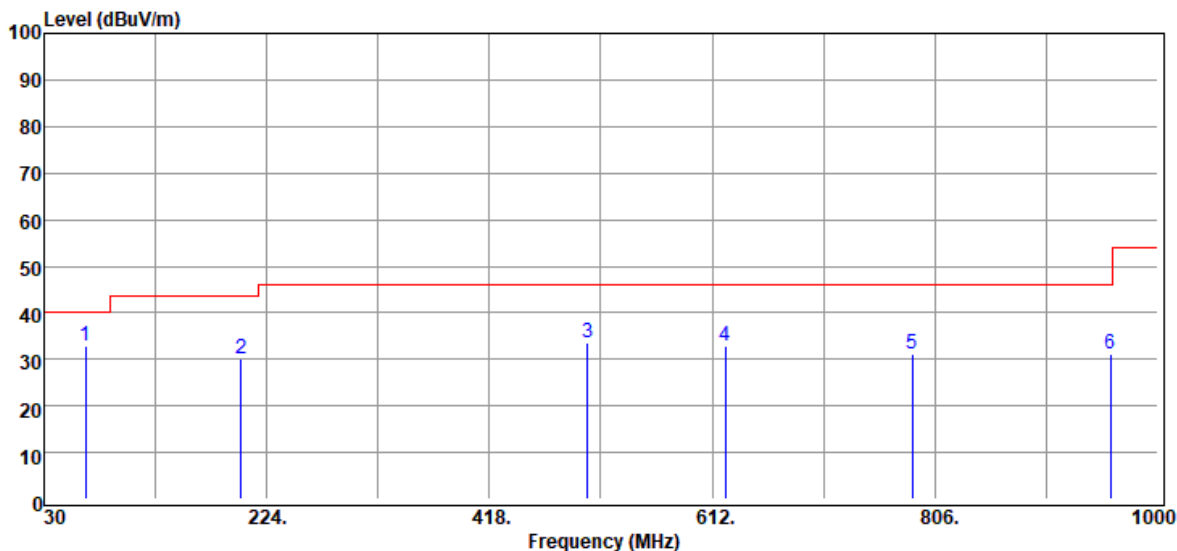
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 4
 Test Channel :5775 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	51.47	-18.50	32.97	40.00	-7.03
201.69	Peak	48.57	-18.58	29.99	43.50	-13.51
503.36	Peak	44.73	-11.18	33.55	46.00	-12.45
623.64	Peak	41.17	-8.30	32.87	46.00	-13.13
786.60	Peak	37.17	-6.15	31.02	46.00	-14.98
959.26	Peak	35.50	-4.34	31.16	46.00	-14.84

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

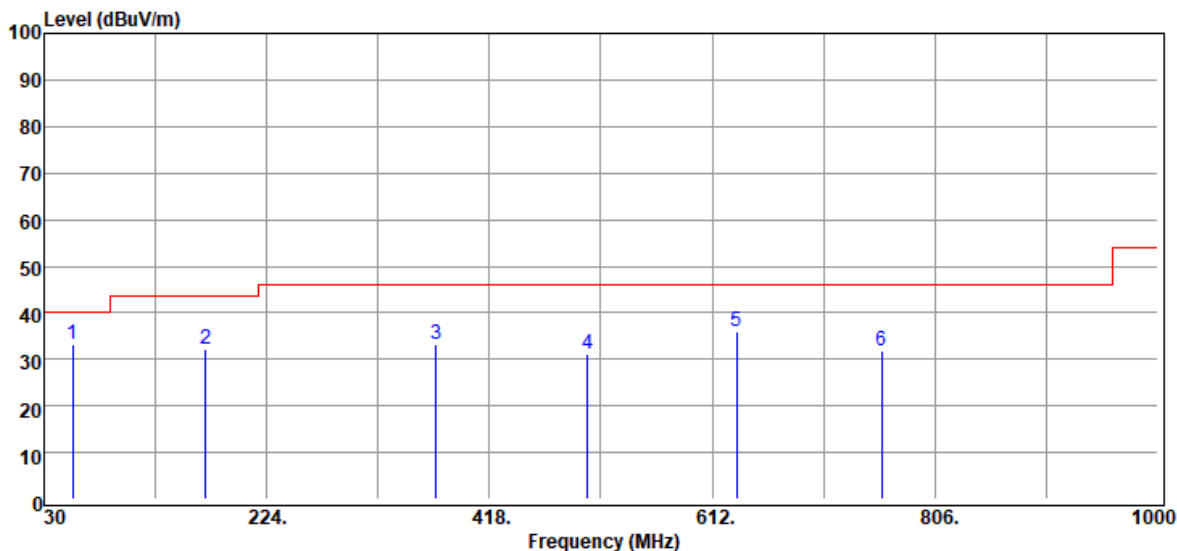
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.5/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.22	Peak	50.26	-17.05	33.21	40.00	-6.79
170.65	Peak	48.50	-16.22	32.28	43.50	-11.22
371.44	Peak	46.65	-13.53	33.12	46.00	-12.88
503.36	Peak	42.38	-11.18	31.20	46.00	-14.80
633.34	Peak	44.00	-8.10	35.90	46.00	-10.10
759.44	Peak	38.54	-6.68	31.86	46.00	-14.14

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f (886-2) 2298-0488

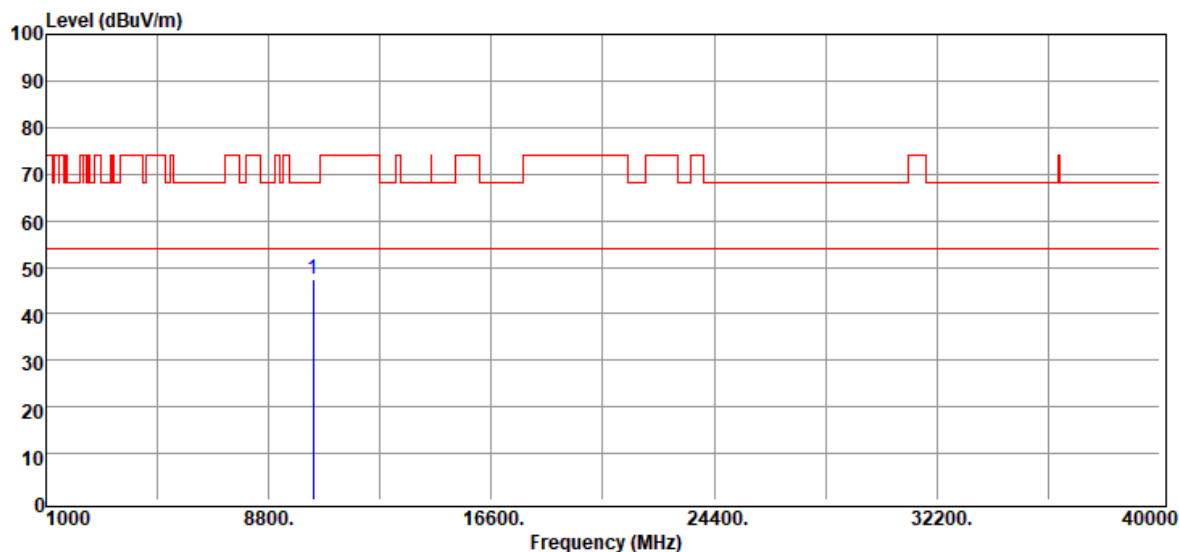
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11.7.2 Above 1GHz Worst-Case Data:

Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	37.28	10.28	47.56	68.20	-20.64

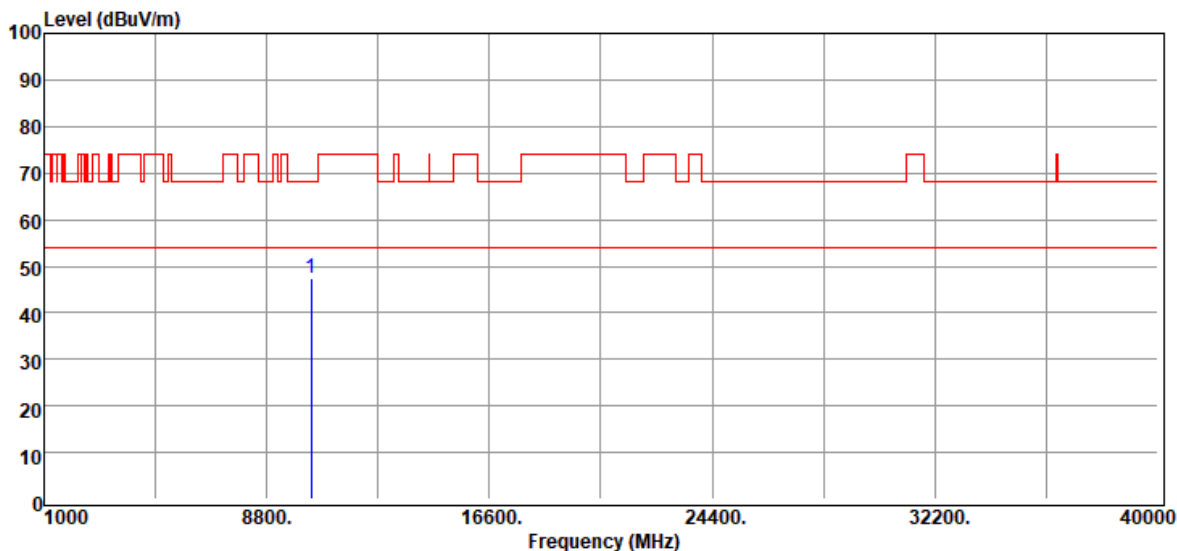
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	37.17	10.28	47.45	68.20	-20.75

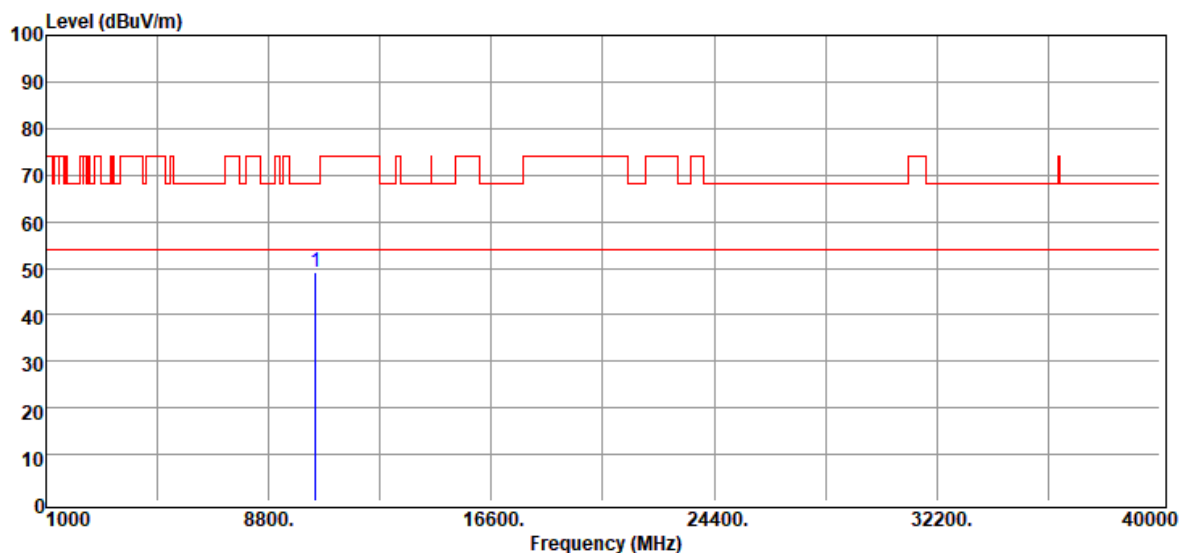
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	38.07	11.00	49.07	68.20	-19.13

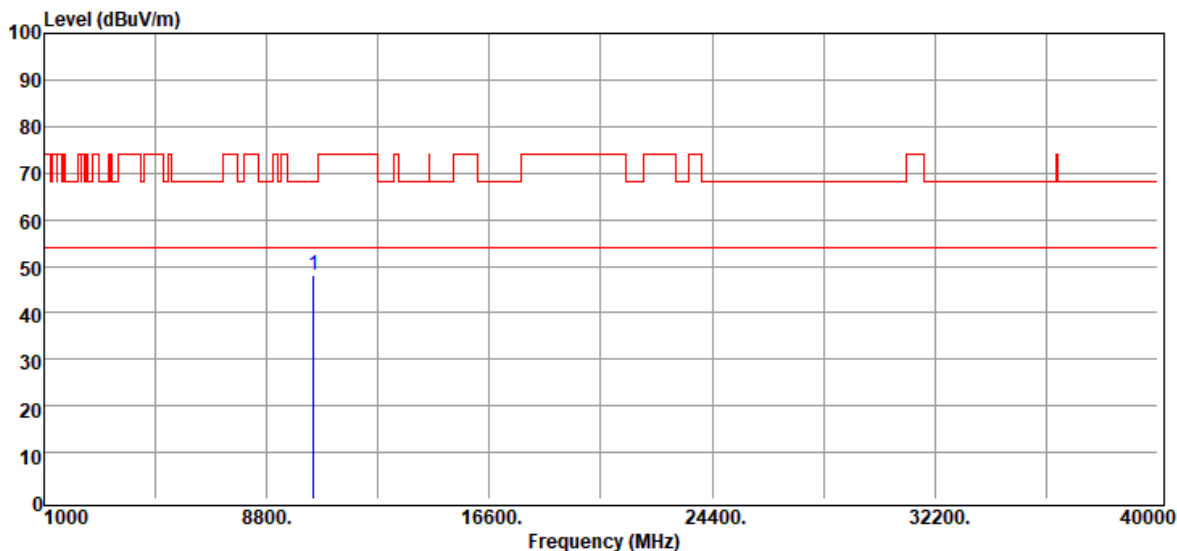
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	37.11	11.00	48.11	68.20	-20.09

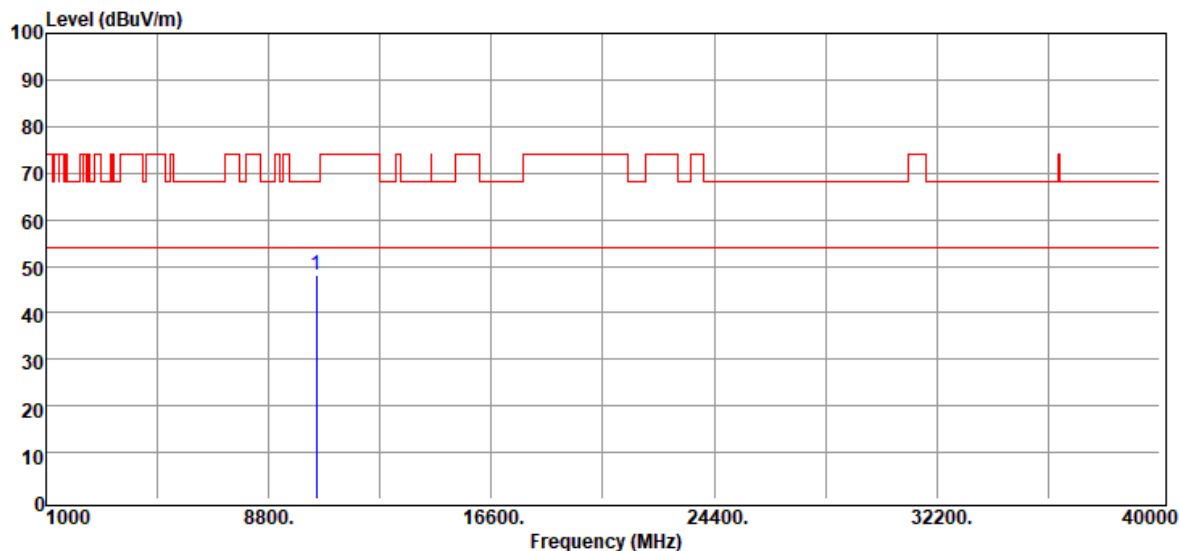
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	36.81	11.18	47.99	68.20	-20.21

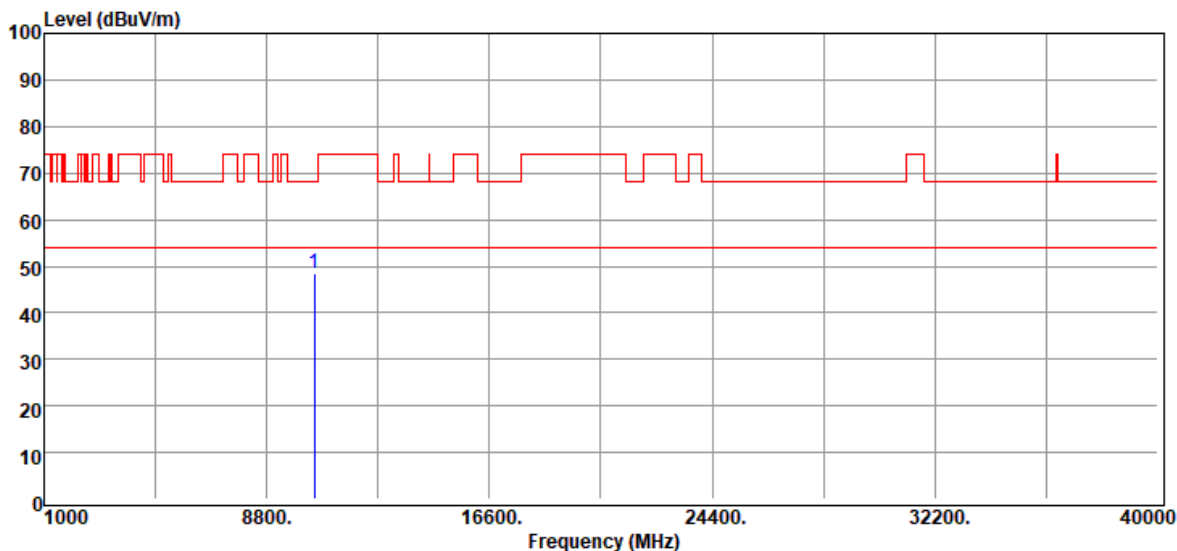
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 1
 Test Channel :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	37.41	11.18	48.59	68.20	-19.61

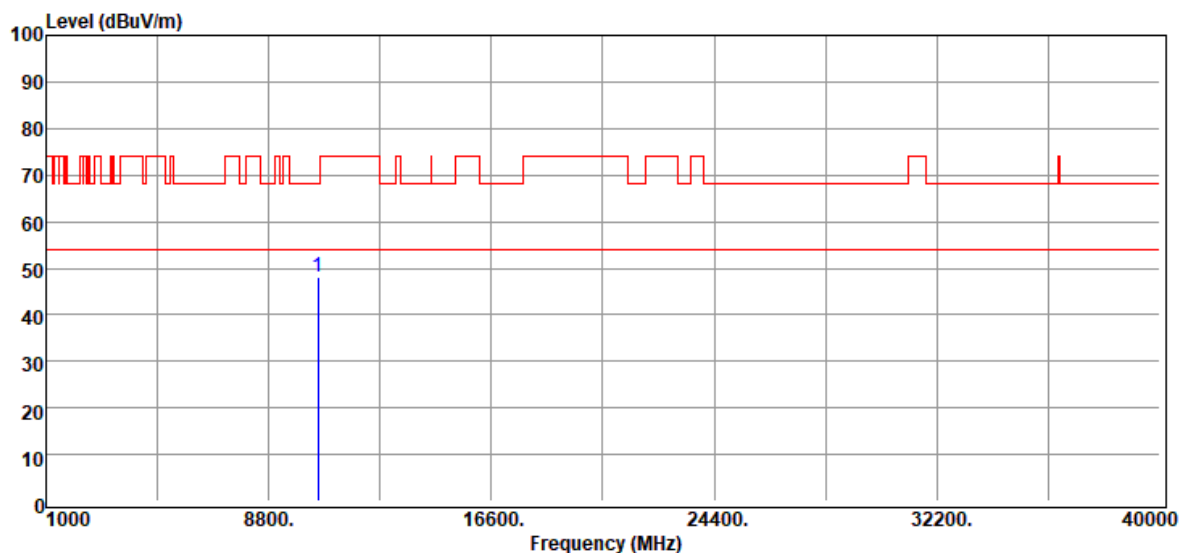
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 2
 Test Channel :5260 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	36.89	11.22	48.11	68.20	-20.09

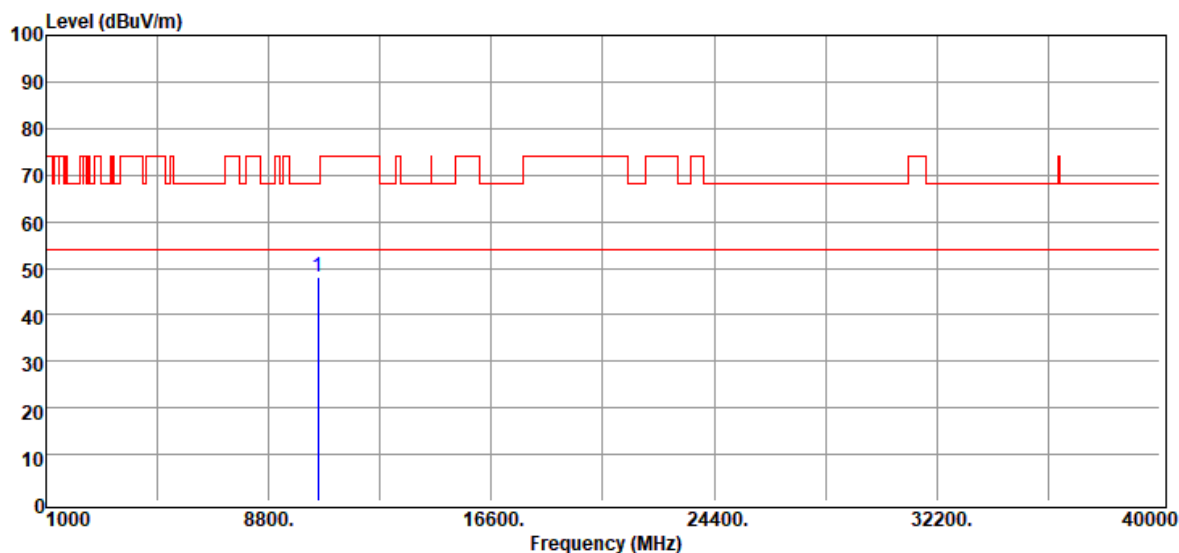
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 2
Test Channel :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	36.87	11.22	48.09	68.20	-20.11

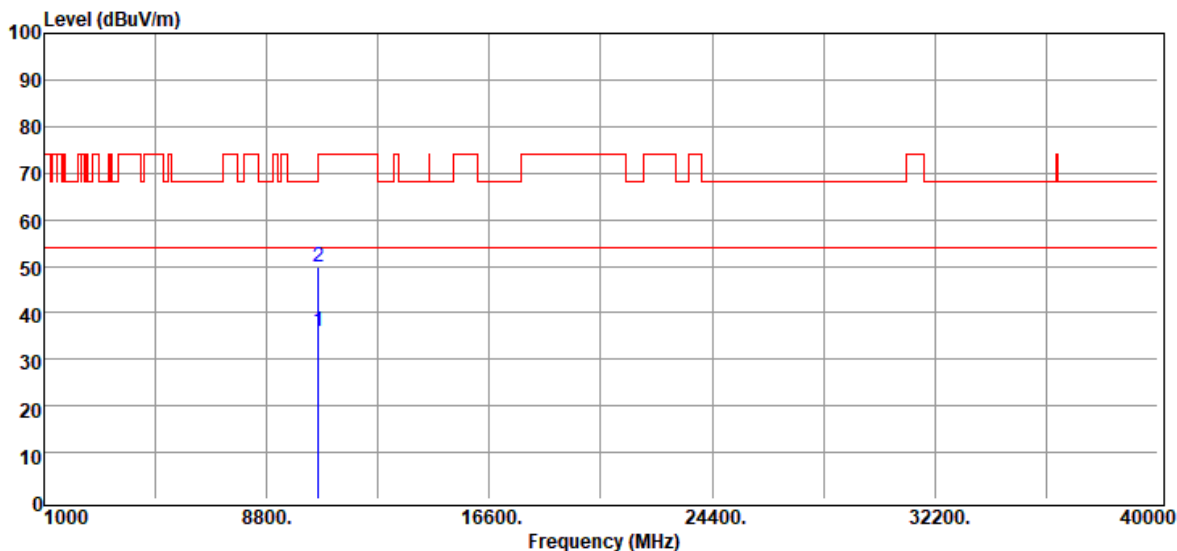
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 2
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	25.02	11.10	36.12	54.00	-17.88
10600.00	Peak	38.63	11.10	49.73	74.00	-24.27

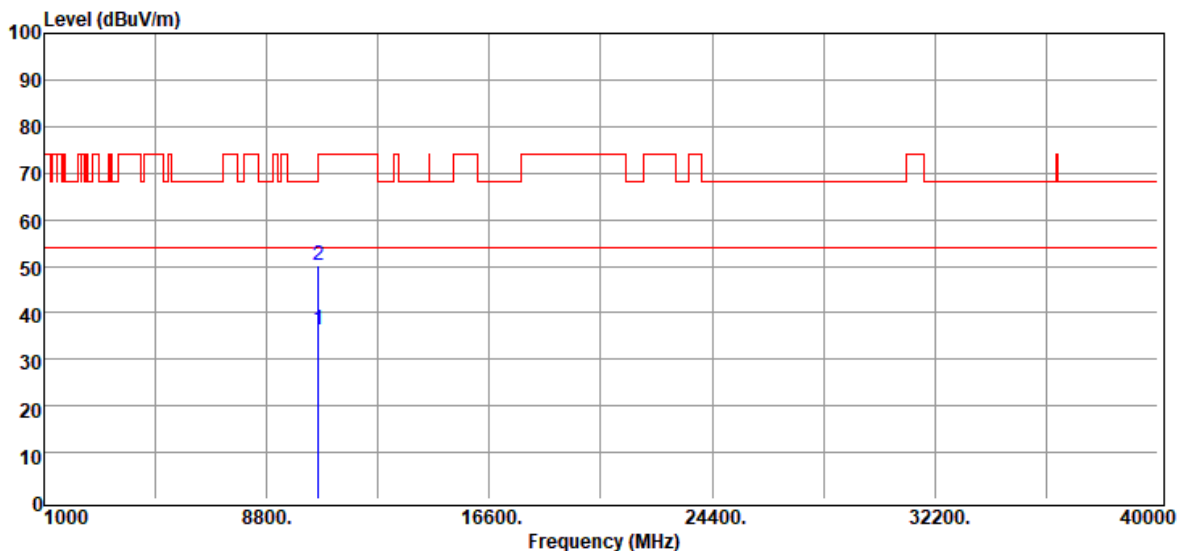
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 2
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	25.16	11.10	36.26	54.00	-17.74
10600.00	Peak	39.04	11.10	50.14	74.00	-23.86

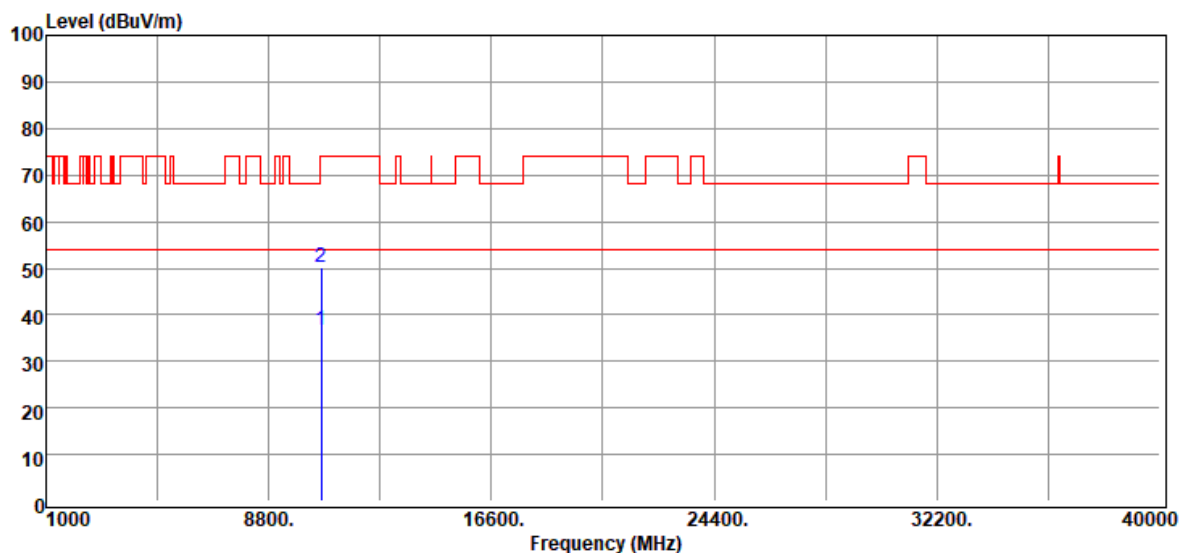
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 2
 Test Channel :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	25.41	11.12	36.53	54.00	-17.47
10640.00	Peak	39.11	11.12	50.23	74.00	-23.77

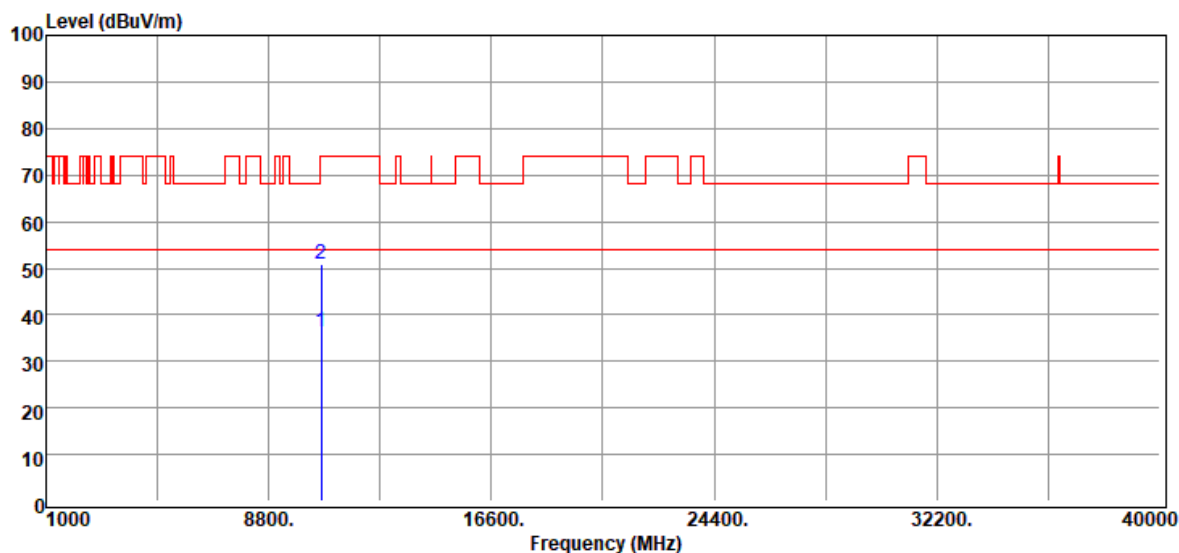
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 2
 Test Channel :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	25.09	11.12	36.21	54.00	-17.79
10640.00	Peak	39.62	11.12	50.74	74.00	-23.26

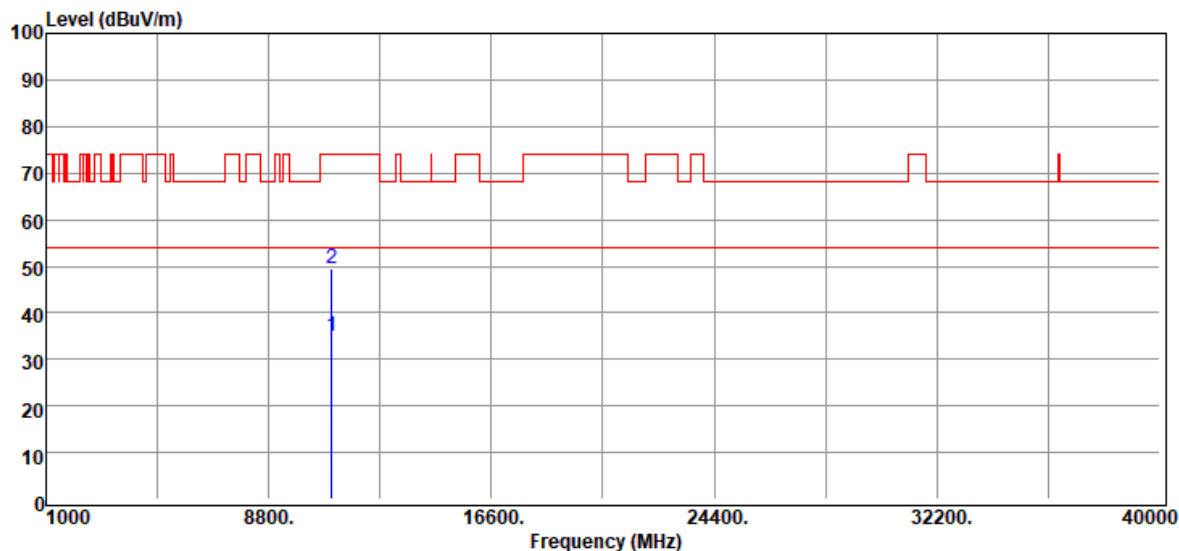
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3
 Test Channel :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	24.97	9.88	34.85	54.00	-19.15
11000.00	Peak	39.48	9.88	49.36	74.00	-24.64

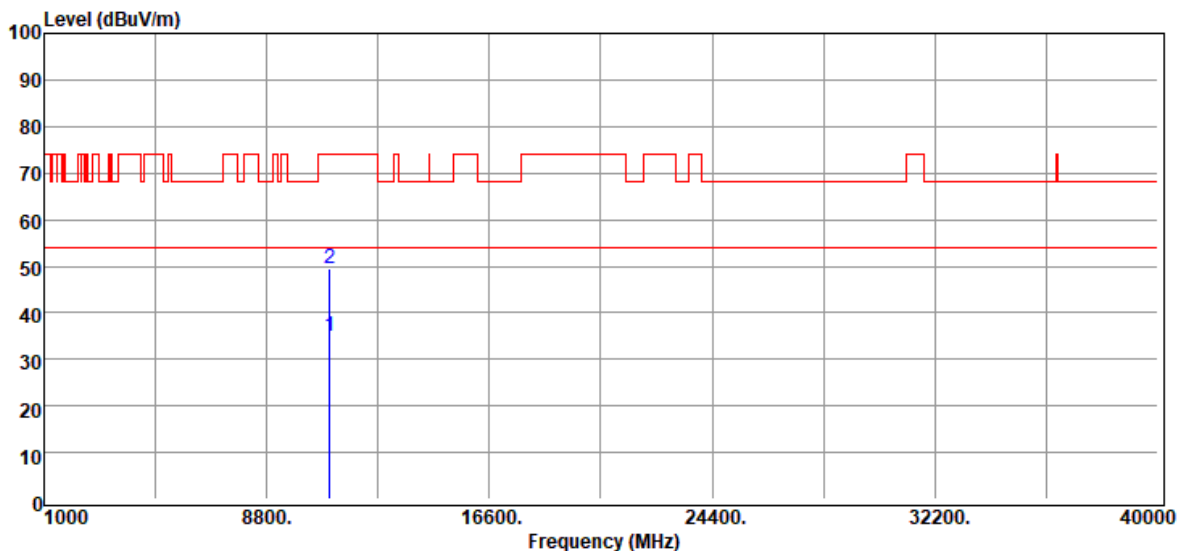
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3
 Test Channel :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	25.16	9.88	35.04	54.00	-18.96
11000.00	Peak	39.75	9.88	49.63	74.00	-24.37

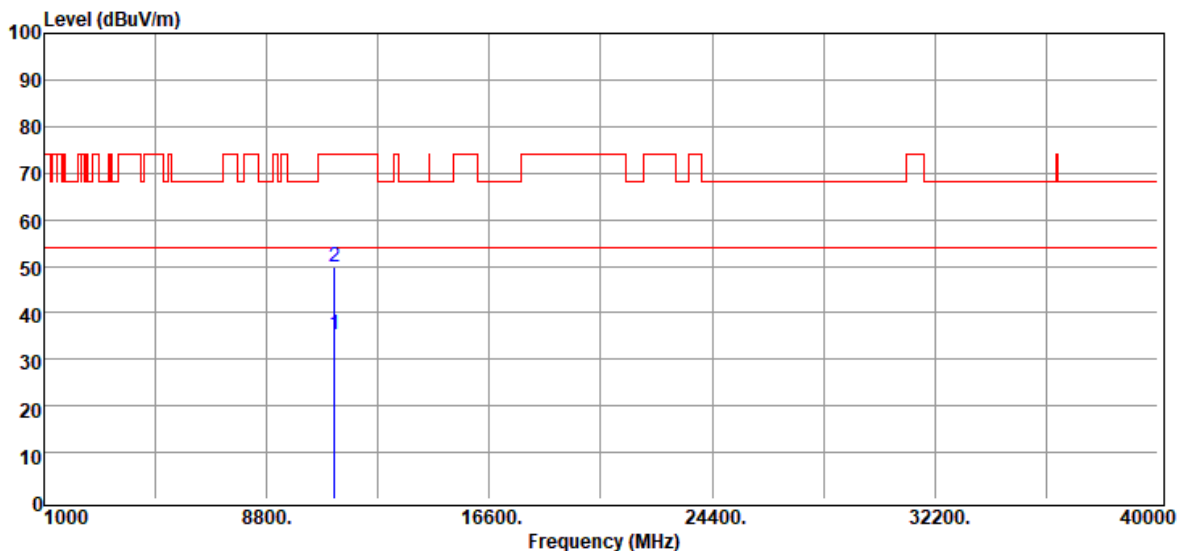
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	24.98	10.39	35.37	54.00	-18.63
11160.00	Peak	39.56	10.39	49.95	74.00	-24.05

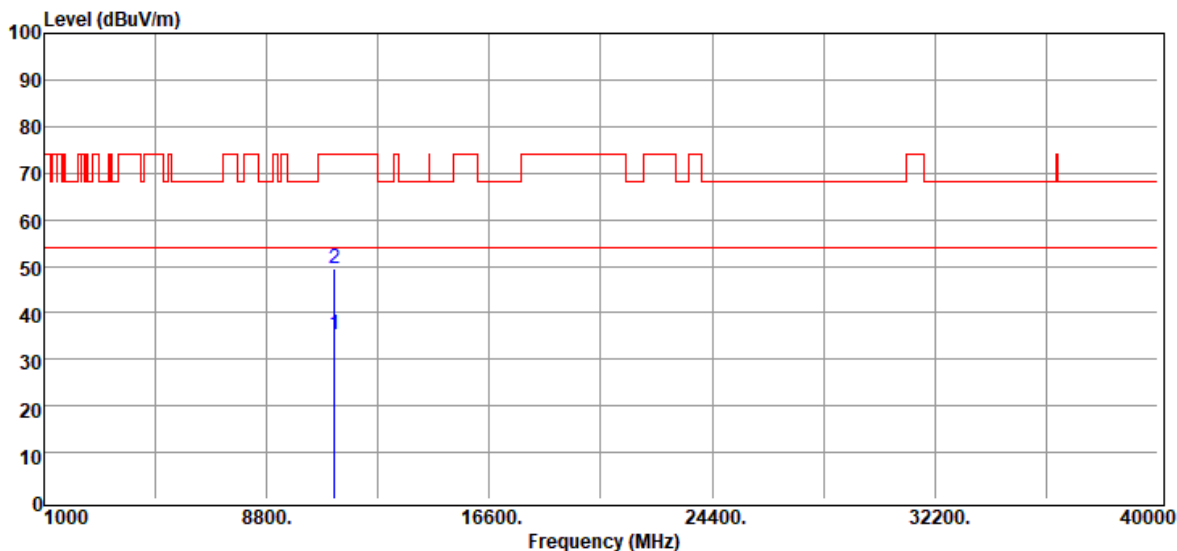
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	24.88	10.39	35.27	54.00	-18.73
11160.00	Peak	38.95	10.39	49.34	74.00	-24.66

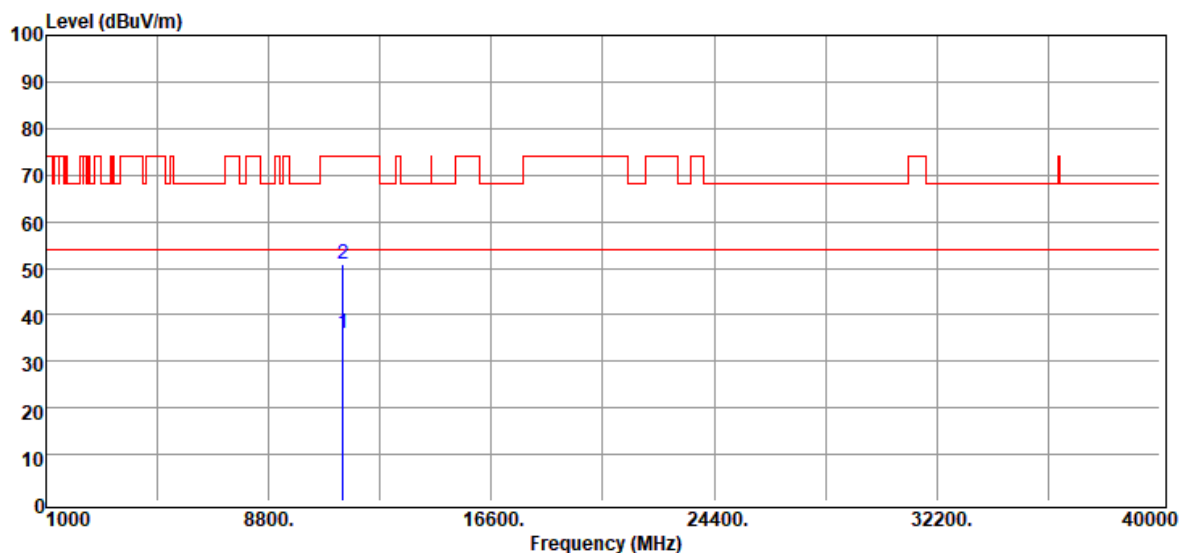
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 3
Test Channel :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.3/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	24.79	11.09	35.88	54.00	-18.12
11400.00	Peak	39.84	11.09	50.93	74.00	-23.07

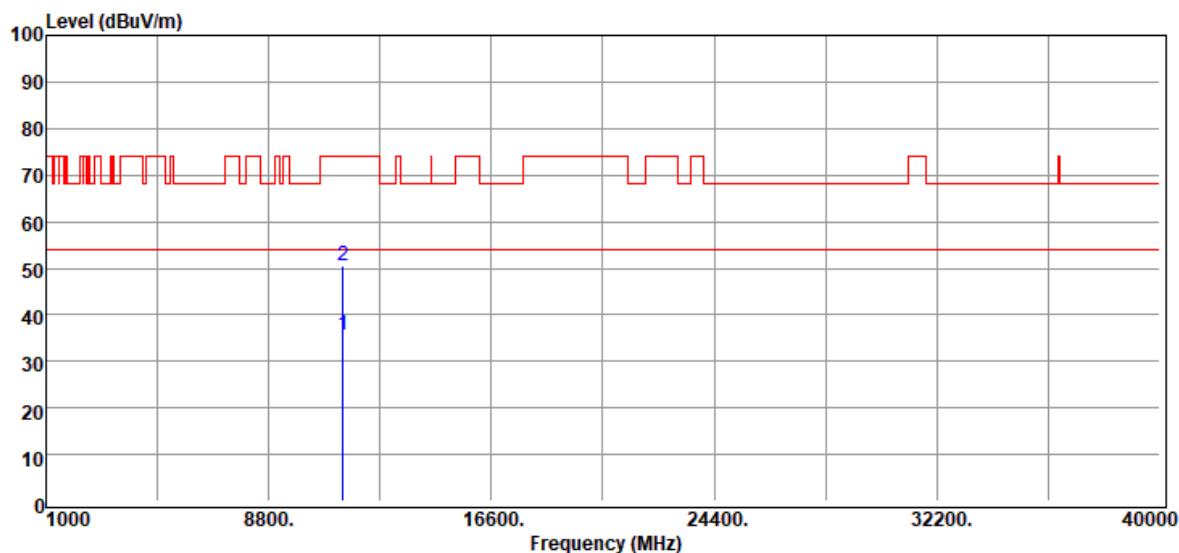
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3
 Test Channel :5700 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	24.71	11.09	35.80	54.00	-18.20
11400.00	Peak	39.46	11.09	50.55	74.00	-23.45

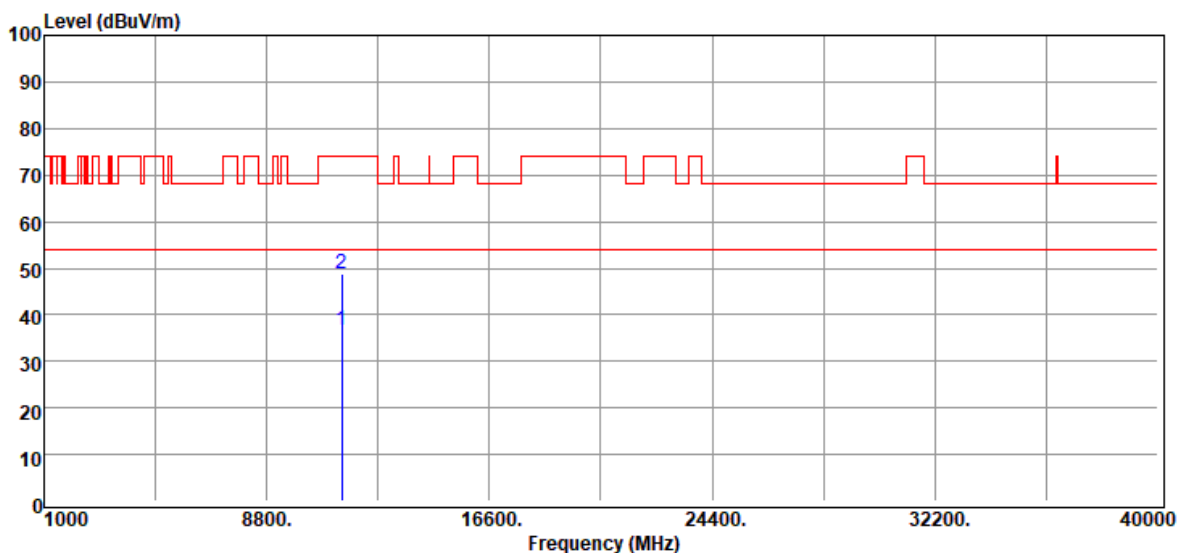
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3-4
 Test Channel :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	24.73	11.81	36.54	54.00	-17.46
11440.00	Peak	37.14	11.81	48.95	74.00	-25.05

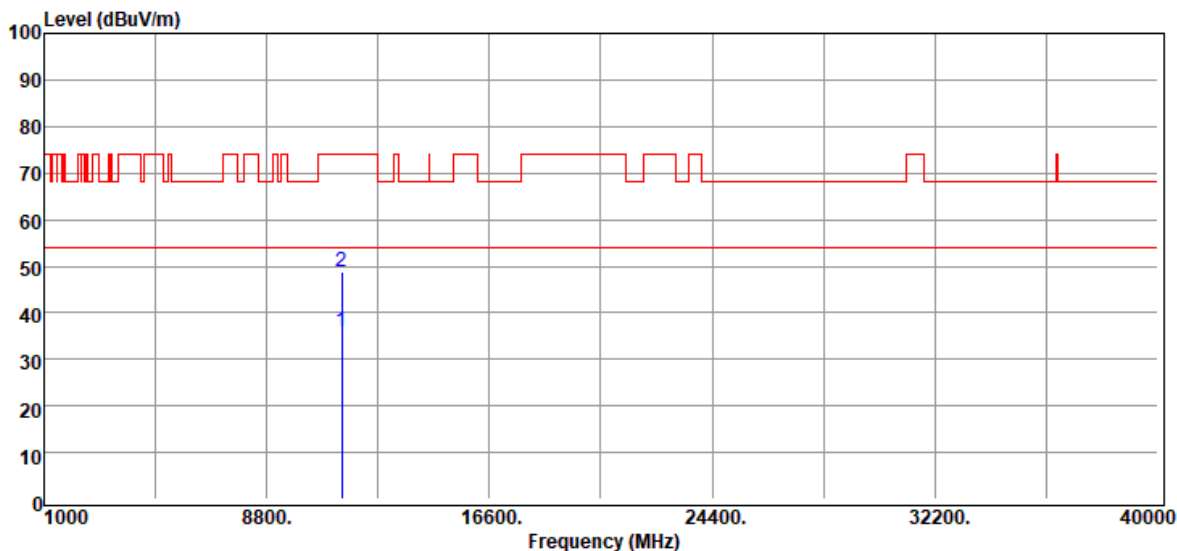
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 3-4
 Test Channel :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	24.34	11.81	36.15	54.00	-17.85
11440.00	Peak	36.96	11.81	48.77	74.00	-25.23

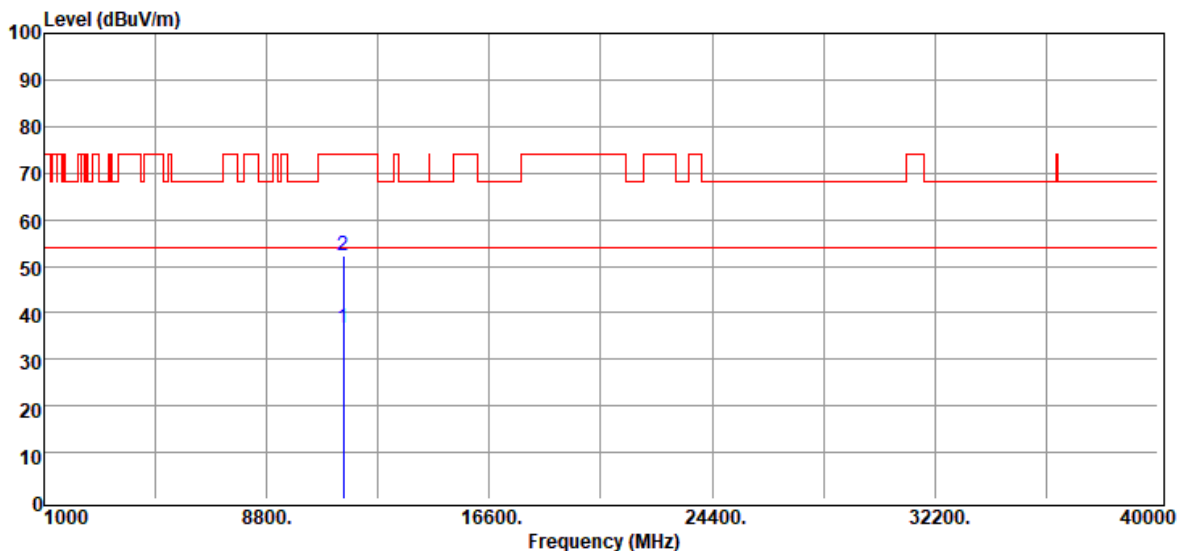
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	24.12	12.69	36.81	54.00	-17.19
11490.00	Peak	39.56	12.69	52.25	74.00	-21.75

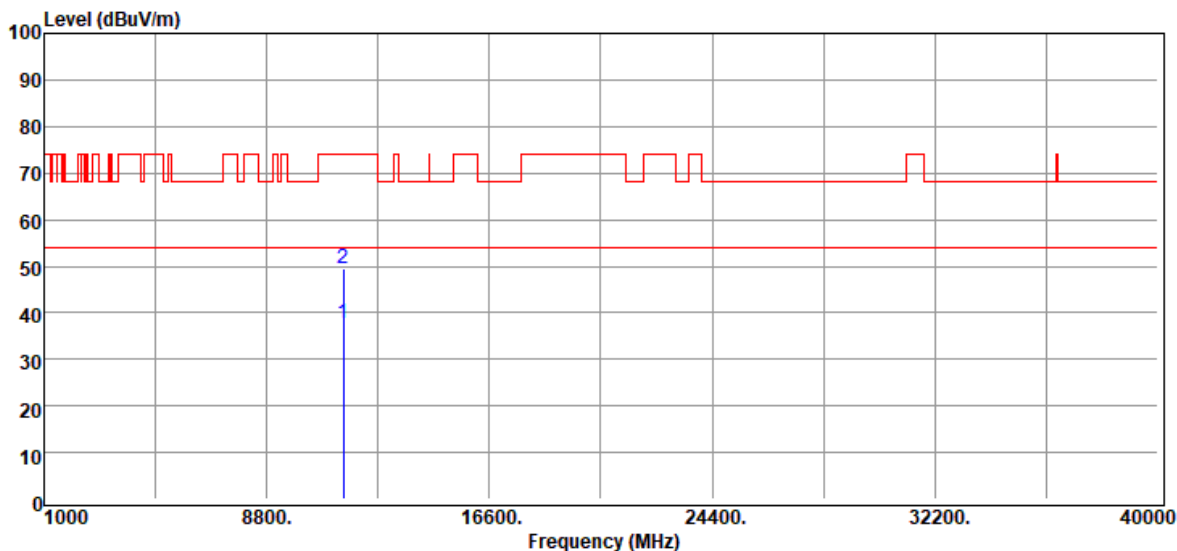
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 4
Test Channel :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.3/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	24.95	12.69	37.64	54.00	-16.36
11490.00	Peak	36.85	12.69	49.54	74.00	-24.46

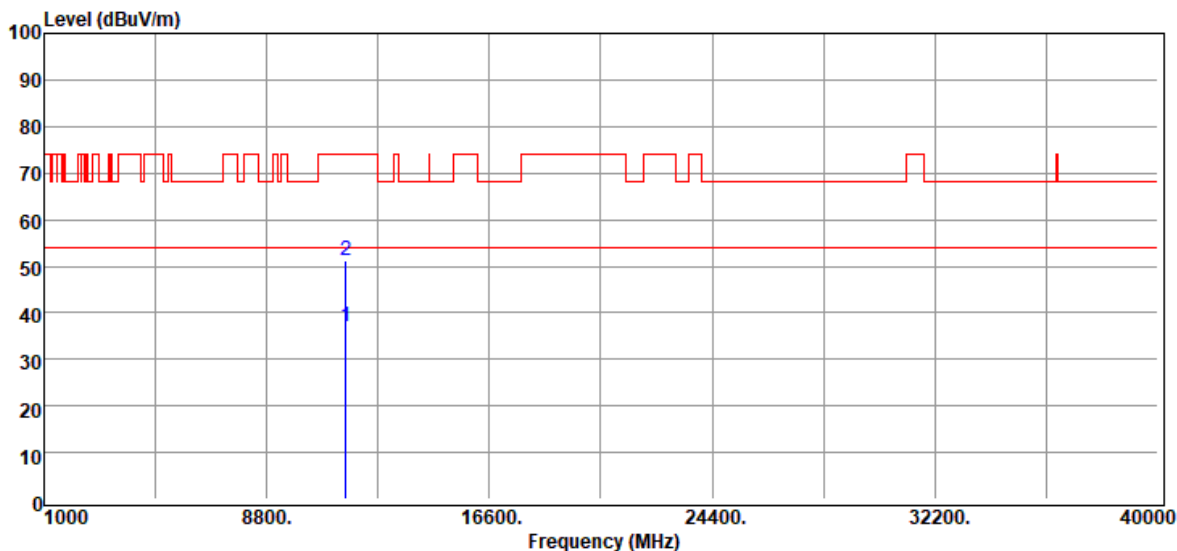
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	24.66	12.38	37.04	54.00	-16.96
11570.00	Peak	38.95	12.38	51.33	74.00	-22.67

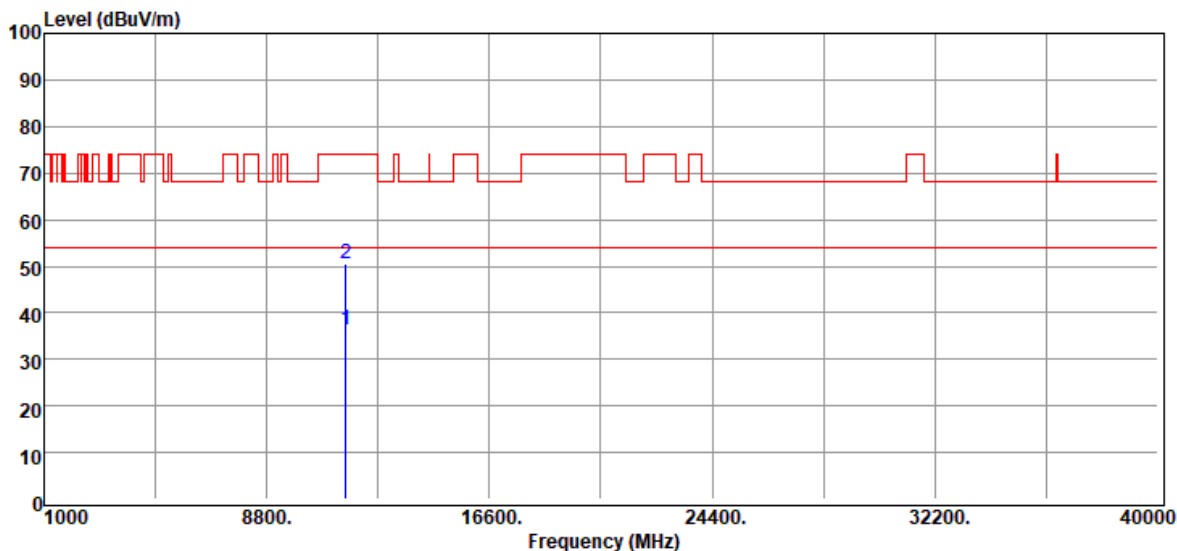
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	23.97	12.38	36.35	54.00	-17.65
11570.00	Peak	38.15	12.38	50.53	74.00	-23.47

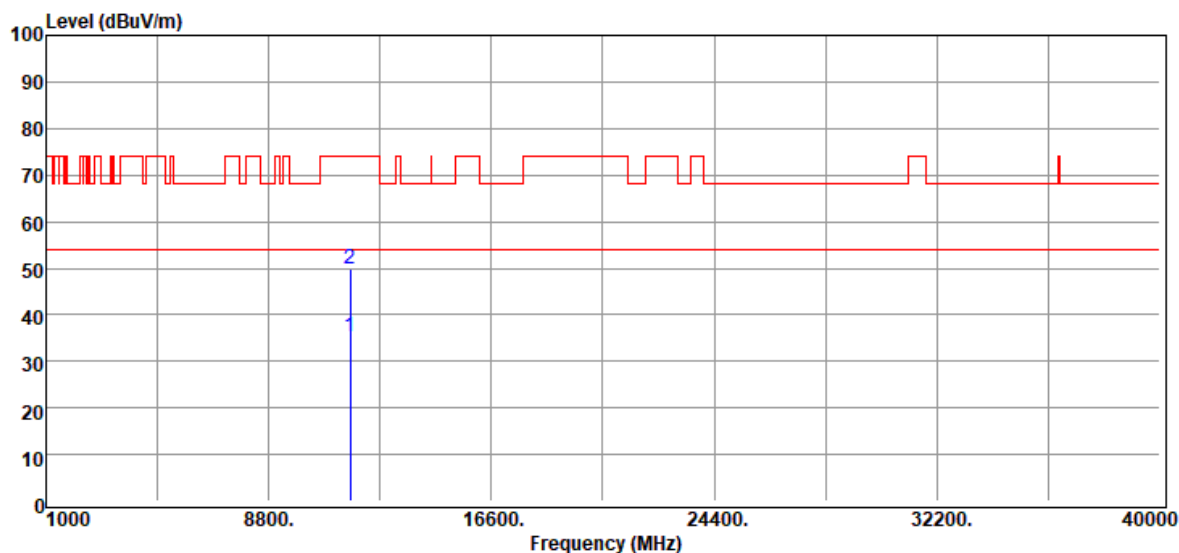
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	24.23	11.21	35.44	54.00	-18.56
11650.00	Peak	38.74	11.21	49.95	74.00	-24.05

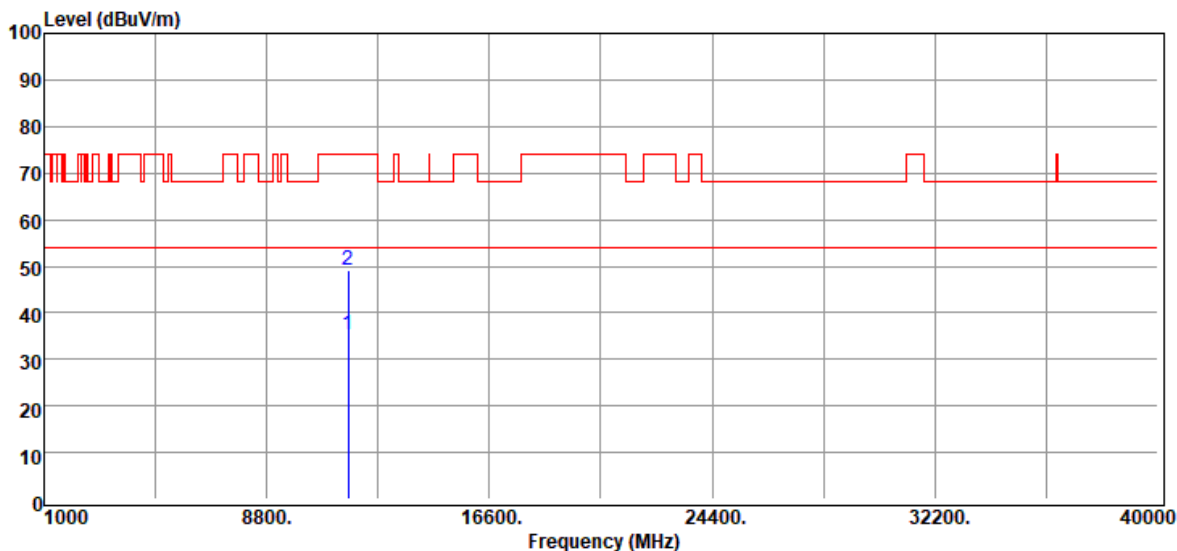
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.3/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	24.11	11.21	35.32	54.00	-18.68
11650.00	Peak	37.84	11.21	49.05	74.00	-24.95

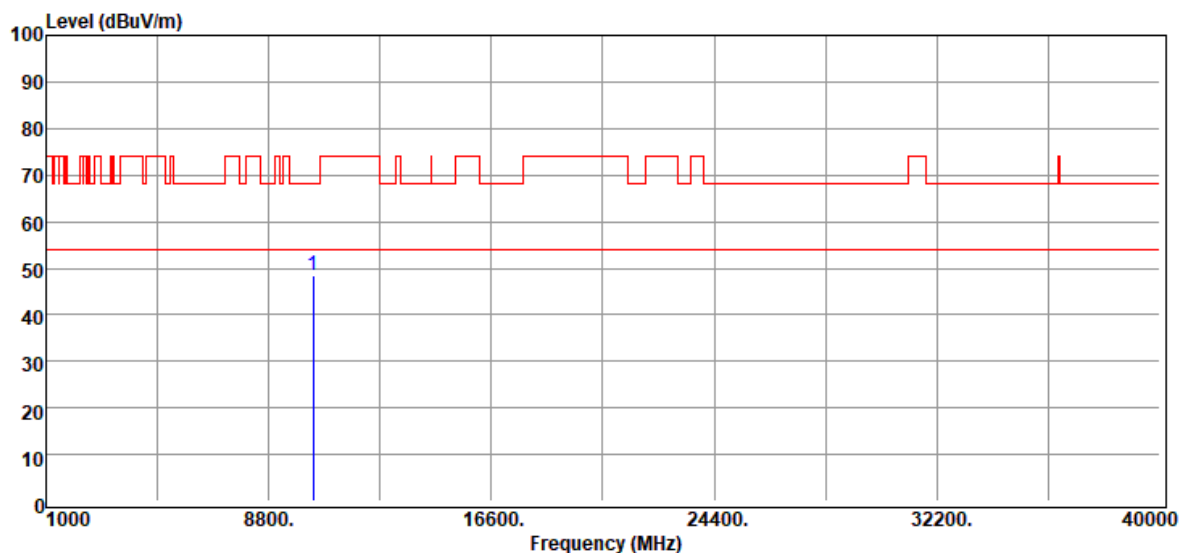
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	38.03	10.28	48.31	68.20	-19.89

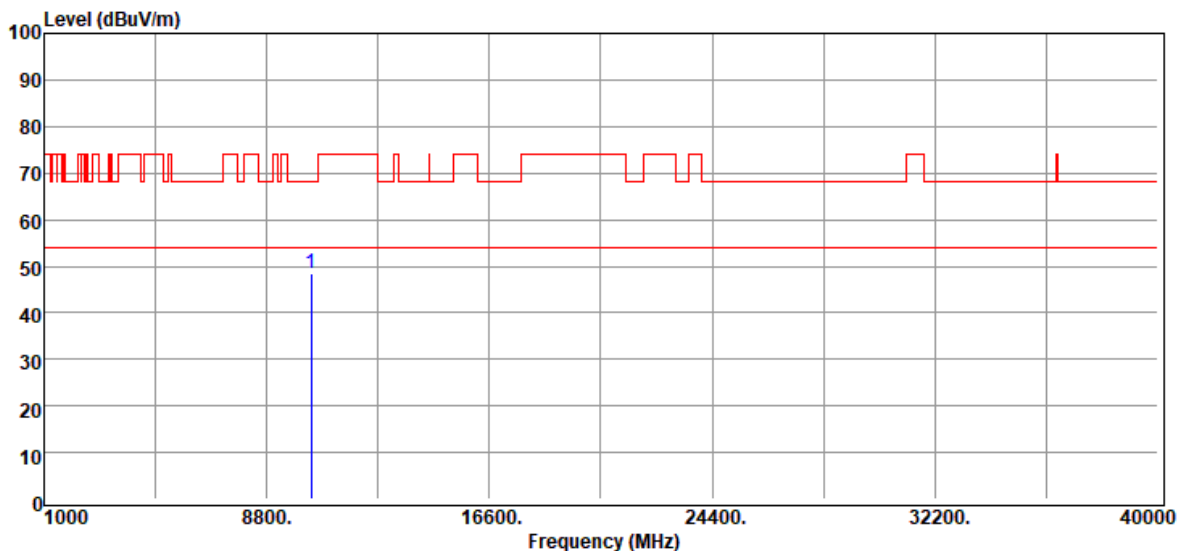
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	38.14	10.28	48.42	68.20	-19.78

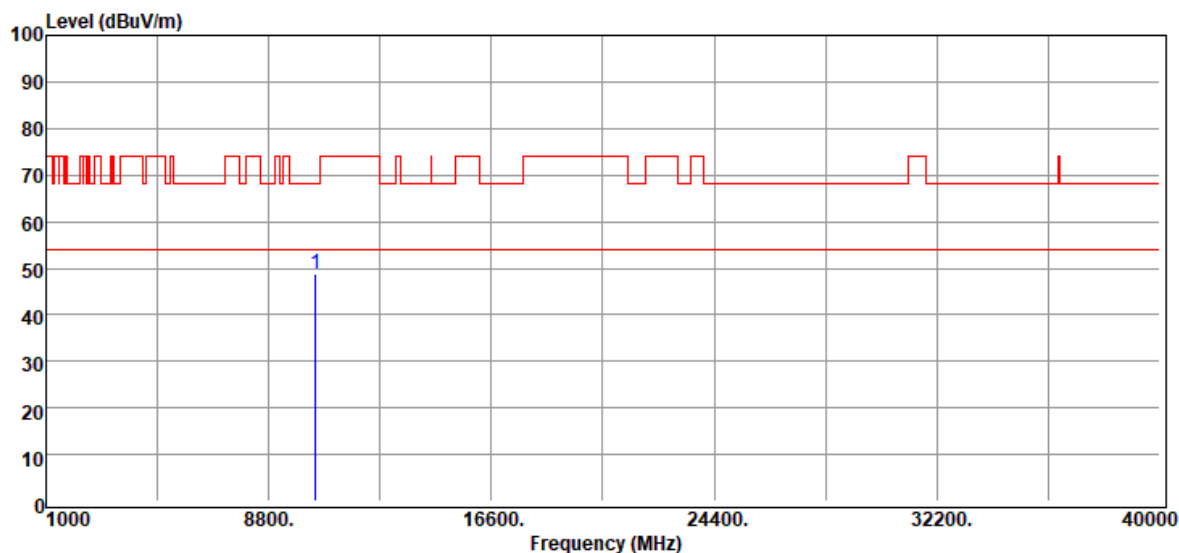
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	37.93	11.00	48.93	68.20	-19.27

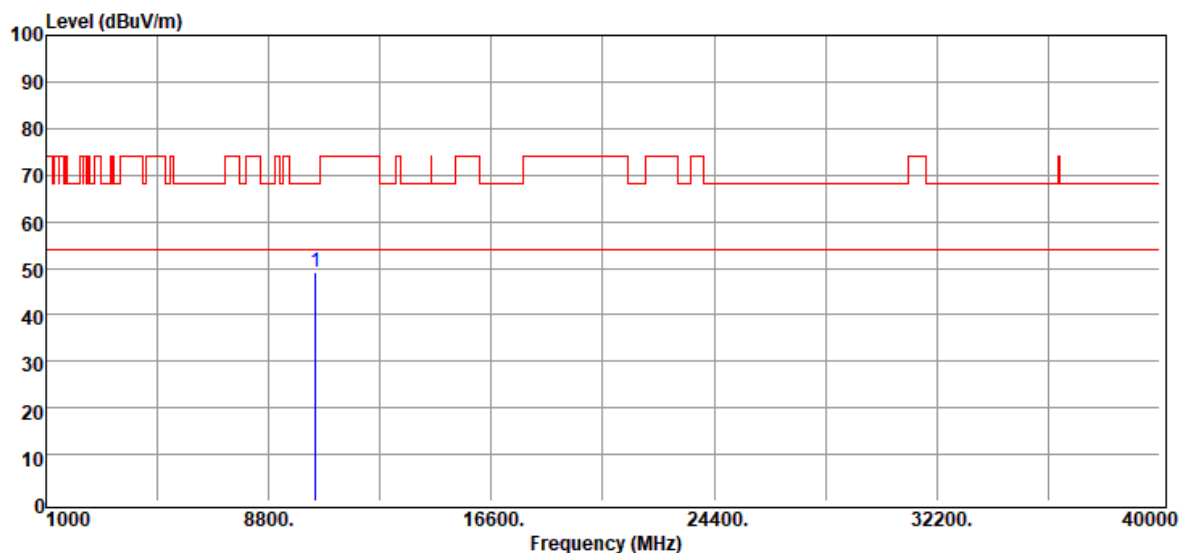
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	38.23	11.00	49.23	68.20	-18.97

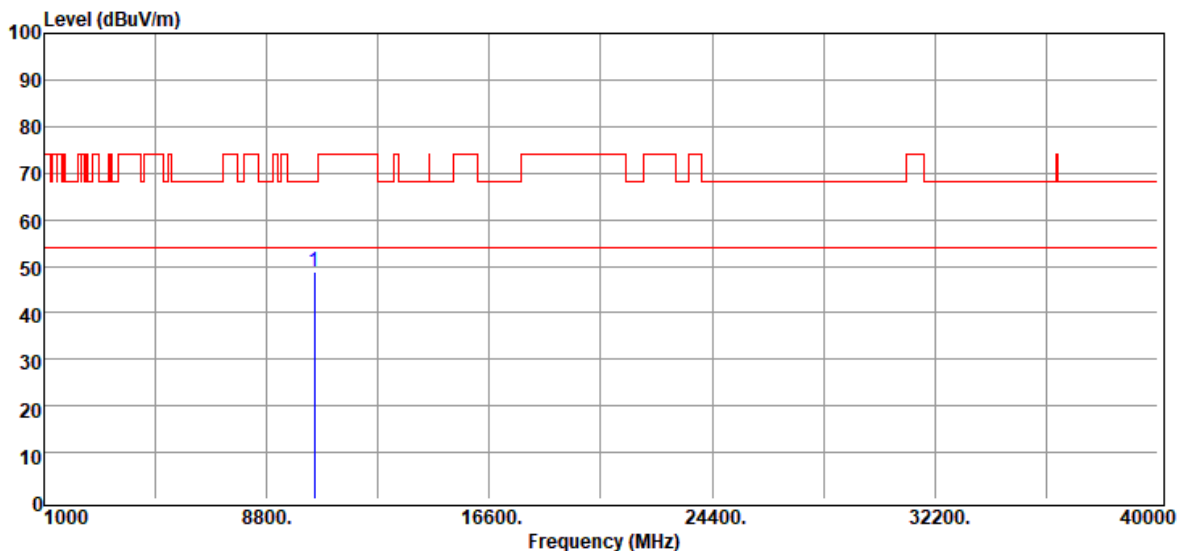
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	37.51	11.18	48.69	68.20	-19.51

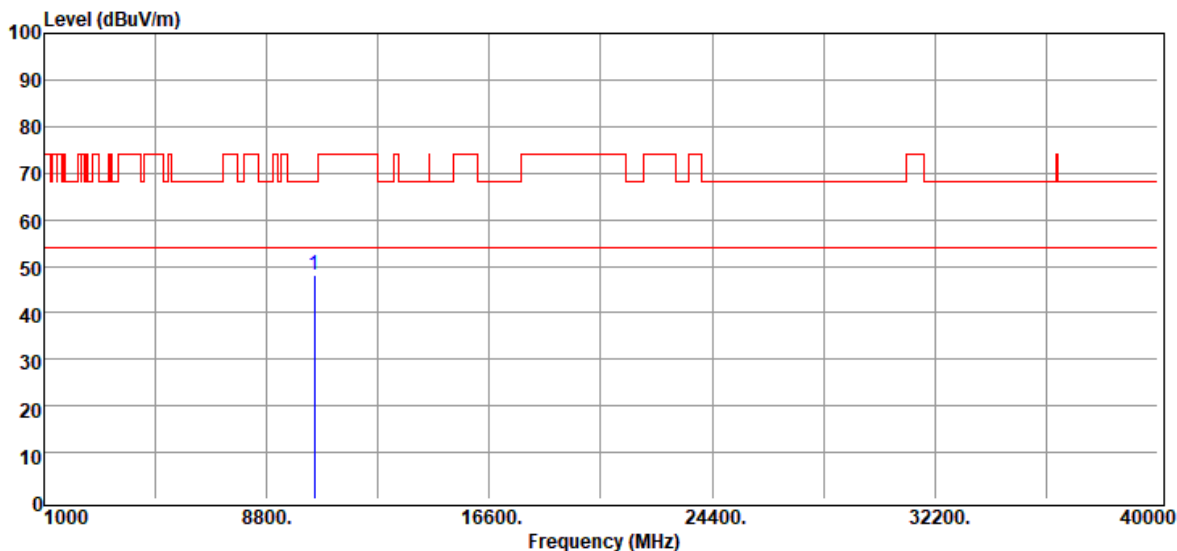
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	37.03	11.18	48.21	68.20	-19.99

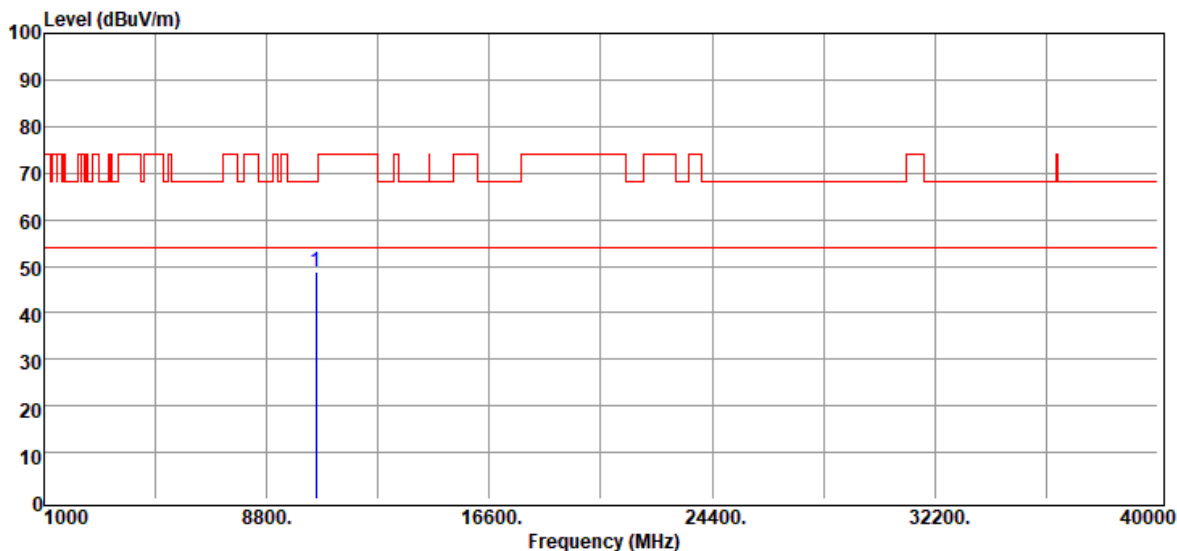
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 2
 Test Channel :5260 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	37.42	11.22	48.64	68.20	-19.56

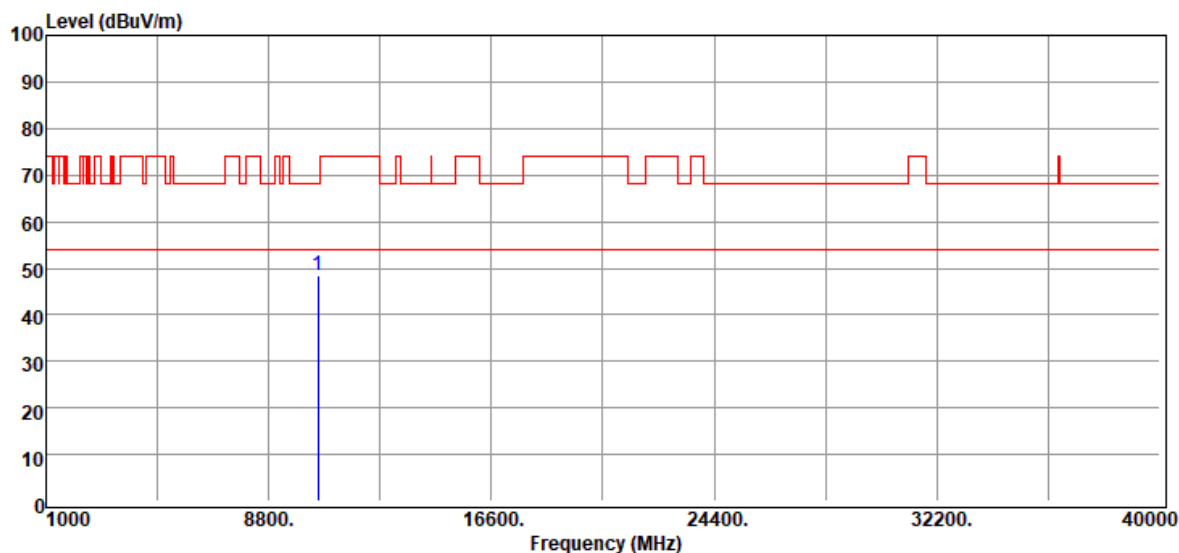
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 2
 Test Channel :5260 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	37.25	11.22	48.47	68.20	-19.73

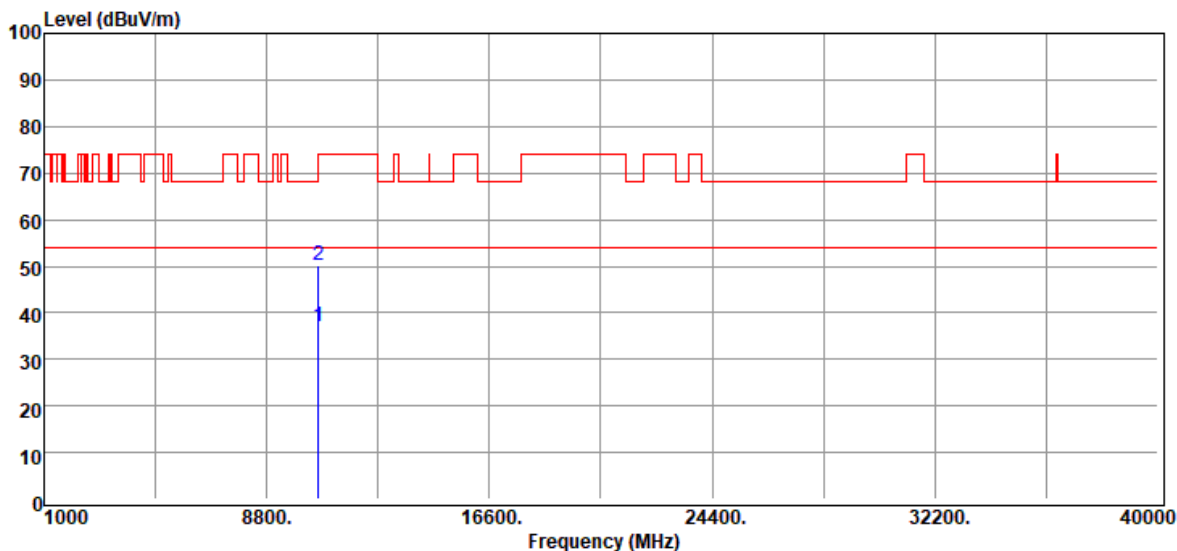
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 2
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	25.89	11.10	36.99	54.00	-17.01
10600.00	Peak	38.95	11.10	50.05	74.00	-23.95

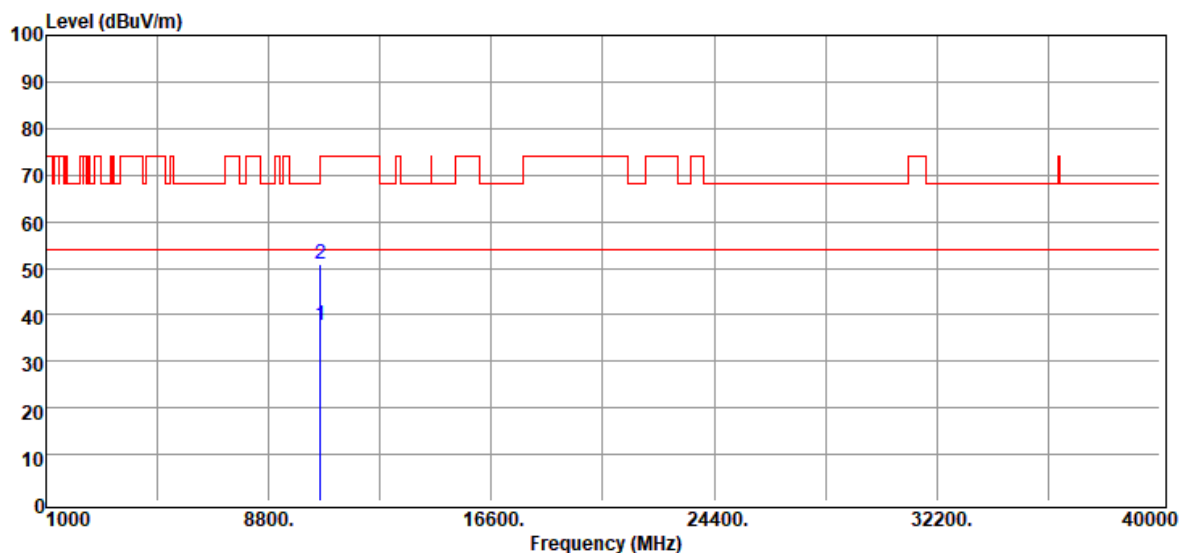
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 2
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	26.52	11.10	37.62	54.00	-16.38
10600.00	Peak	39.65	11.10	50.75	74.00	-23.25

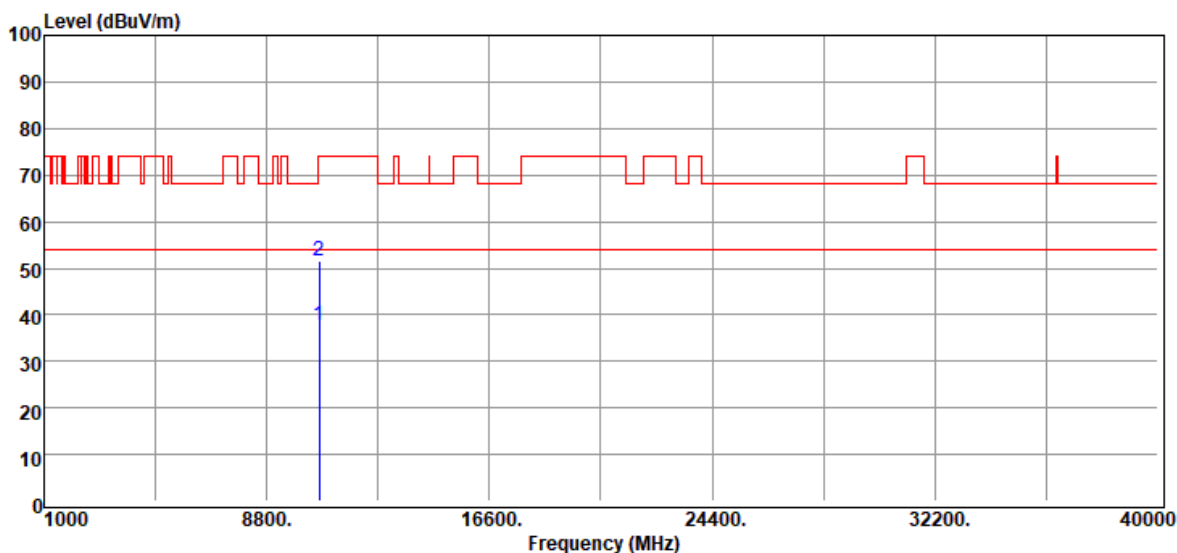
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 2
Test Channel :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.6/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	26.44	11.12	37.56	54.00	-16.44
10640.00	Peak	40.29	11.12	51.41	74.00	-22.59

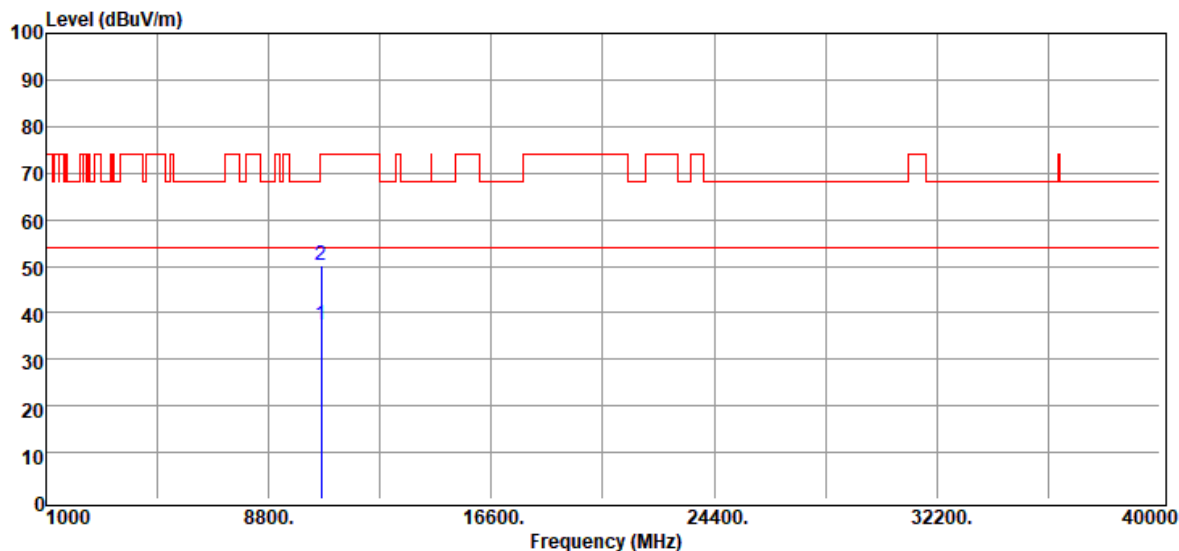
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 2
 Test Channel :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	26.41	11.12	37.53	54.00	-16.47
10640.00	Peak	38.95	11.12	50.07	74.00	-23.93

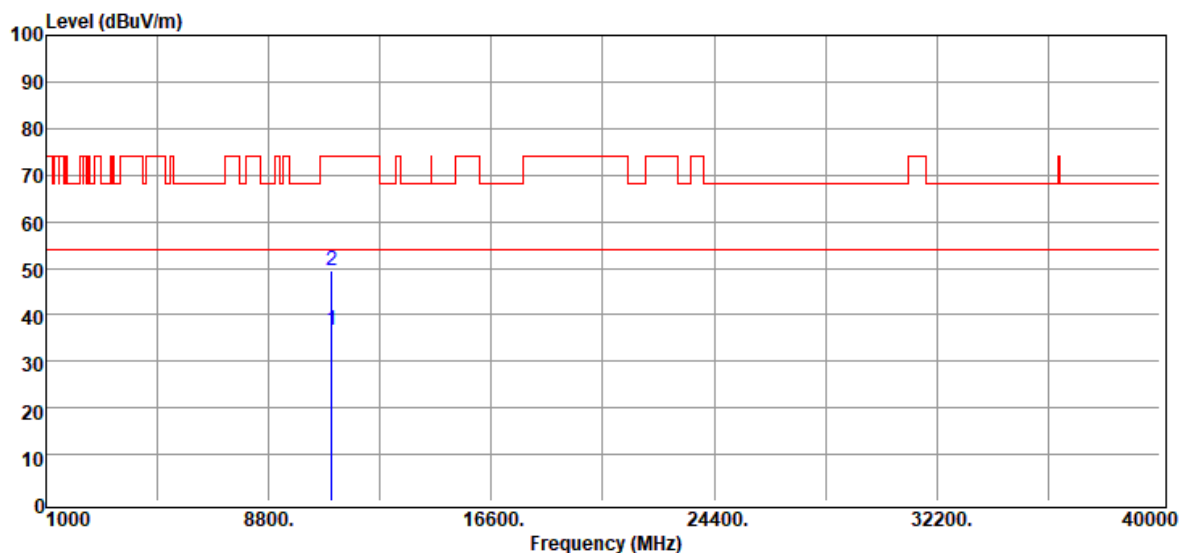
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.71	9.88	36.59	54.00	-17.41
11000.00	Peak	39.48	9.88	49.36	74.00	-24.64

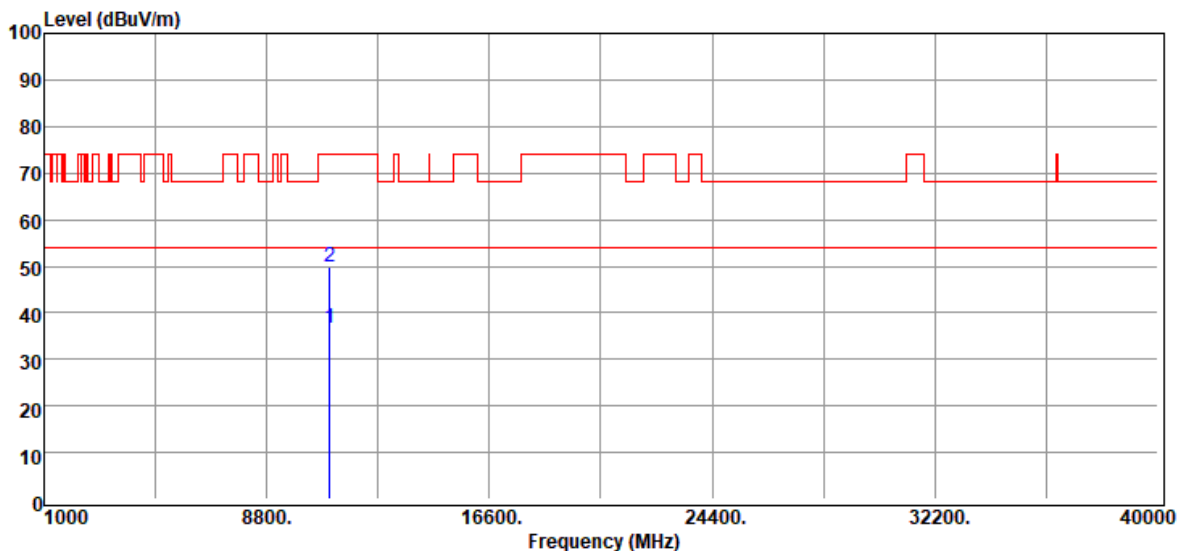
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	26.83	9.88	36.71	54.00	-17.29
11000.00	Peak	39.95	9.88	49.83	74.00	-24.17

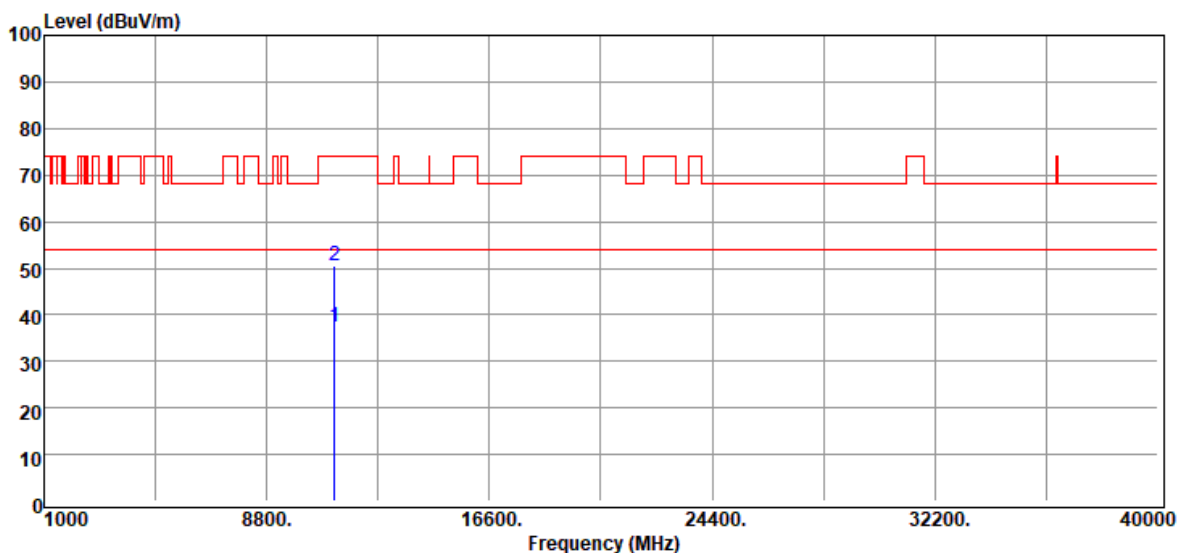
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	26.92	10.39	37.31	54.00	-16.69
11160.00	Peak	40.12	10.39	50.51	74.00	-23.49

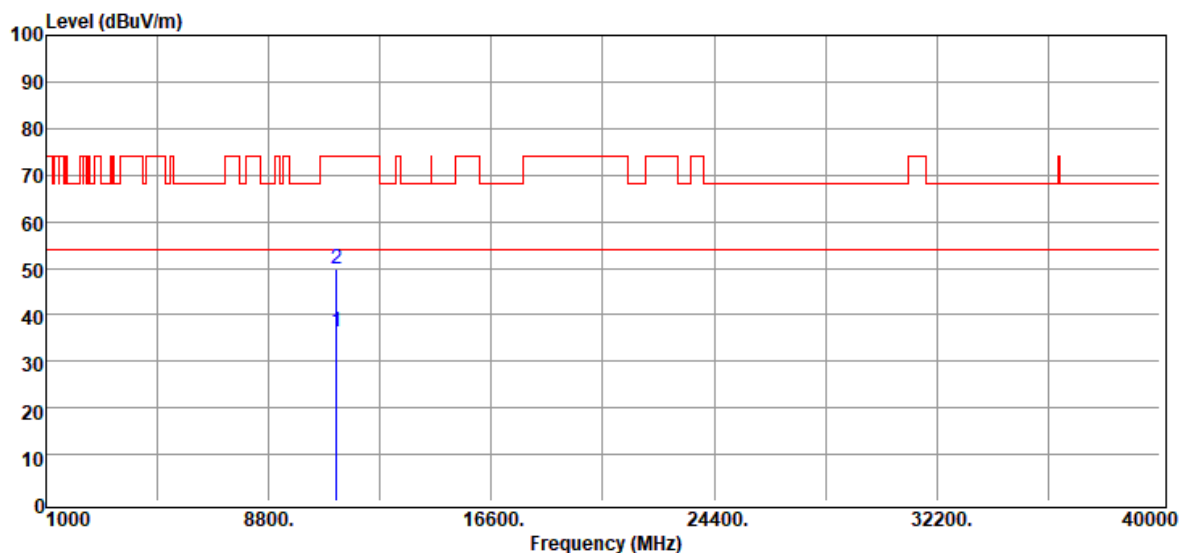
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	25.97	10.39	36.36	54.00	-17.64
11160.00	Peak	39.48	10.39	49.87	74.00	-24.13

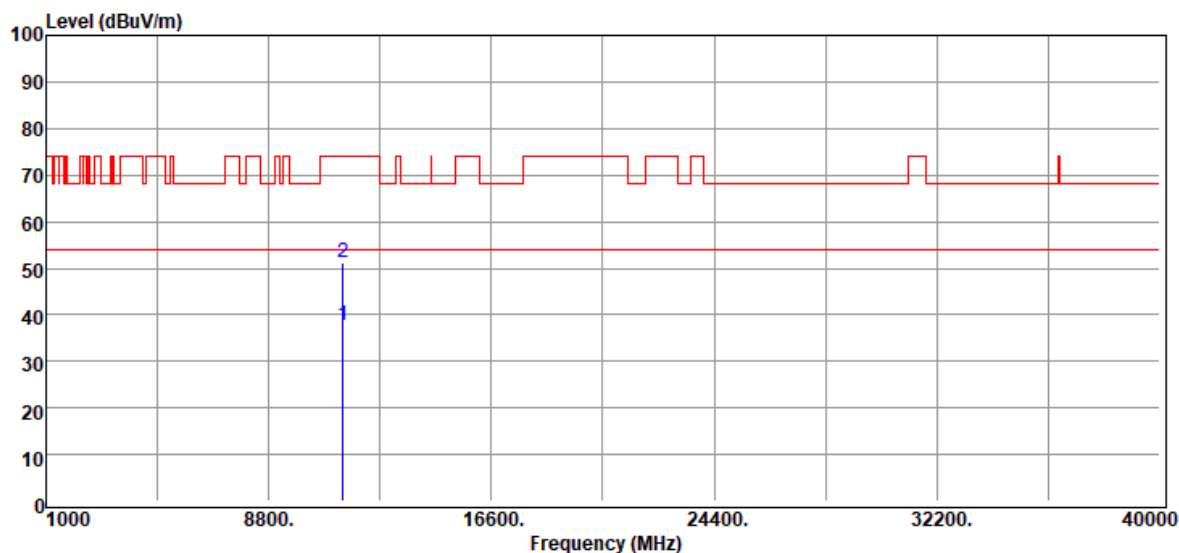
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5700 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	26.69	11.09	37.78	54.00	-16.22
11400.00	Peak	39.98	11.09	51.07	74.00	-22.93

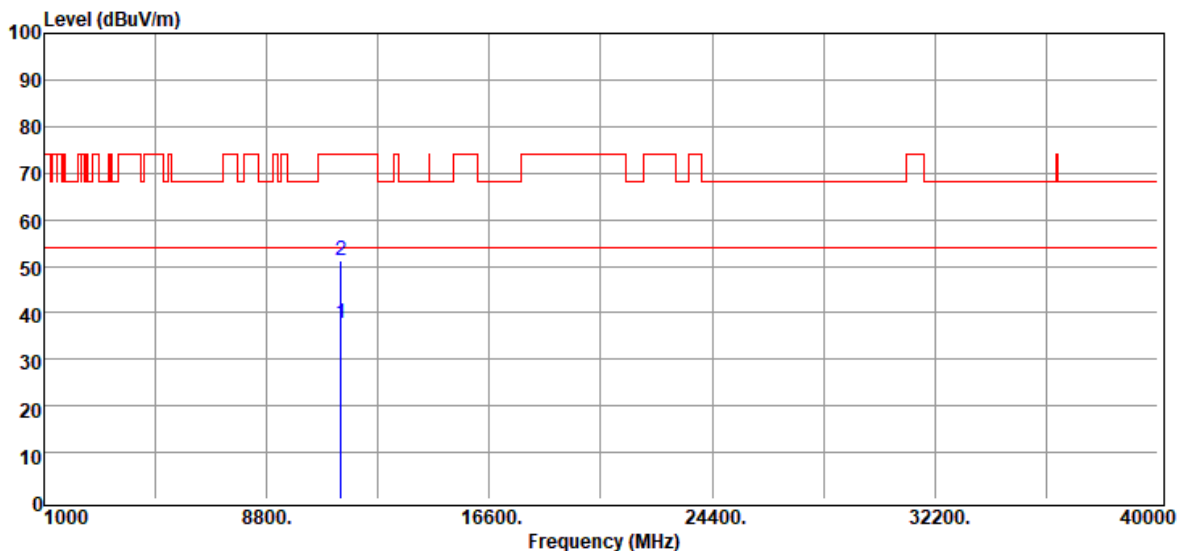
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5700 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	26.79	11.09	37.88	54.00	-16.12
11400.00	Peak	40.17	11.09	51.26	74.00	-22.74

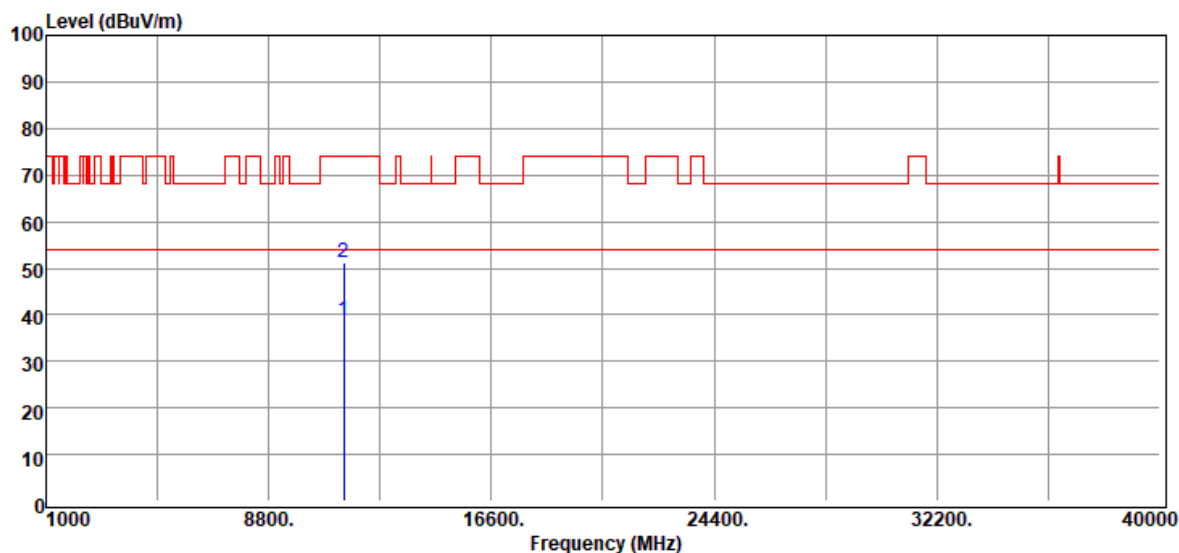
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3-4
 Test Channel :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.94	11.81	38.75	54.00	-15.25
11440.00	Peak	39.47	11.81	51.28	74.00	-22.72

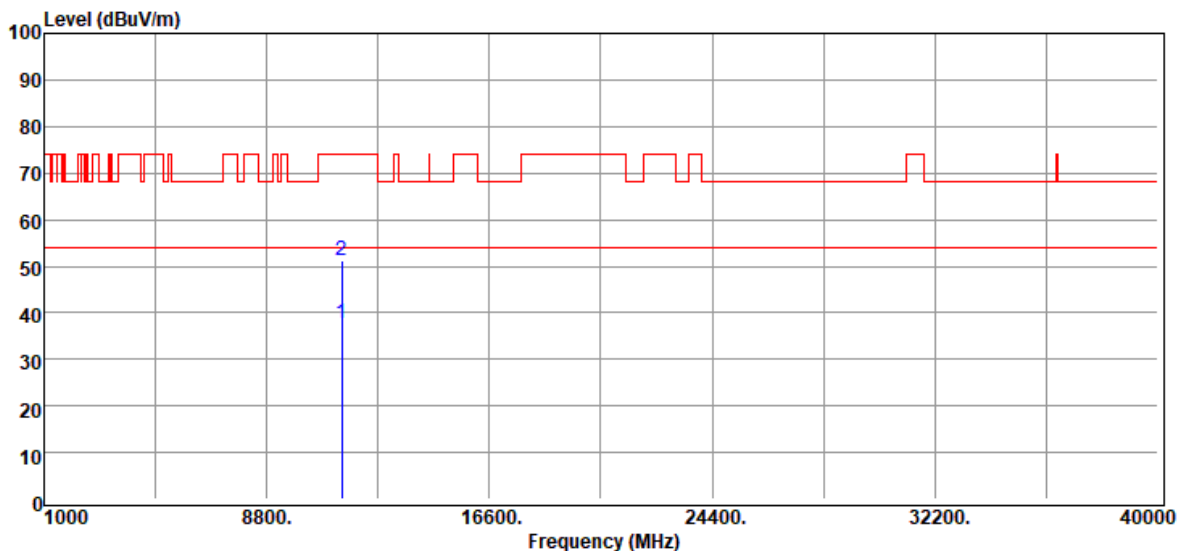
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3-4
 Test Channel :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	25.96	11.81	37.77	54.00	-16.23
11440.00	Peak	39.25	11.81	51.06	74.00	-22.94

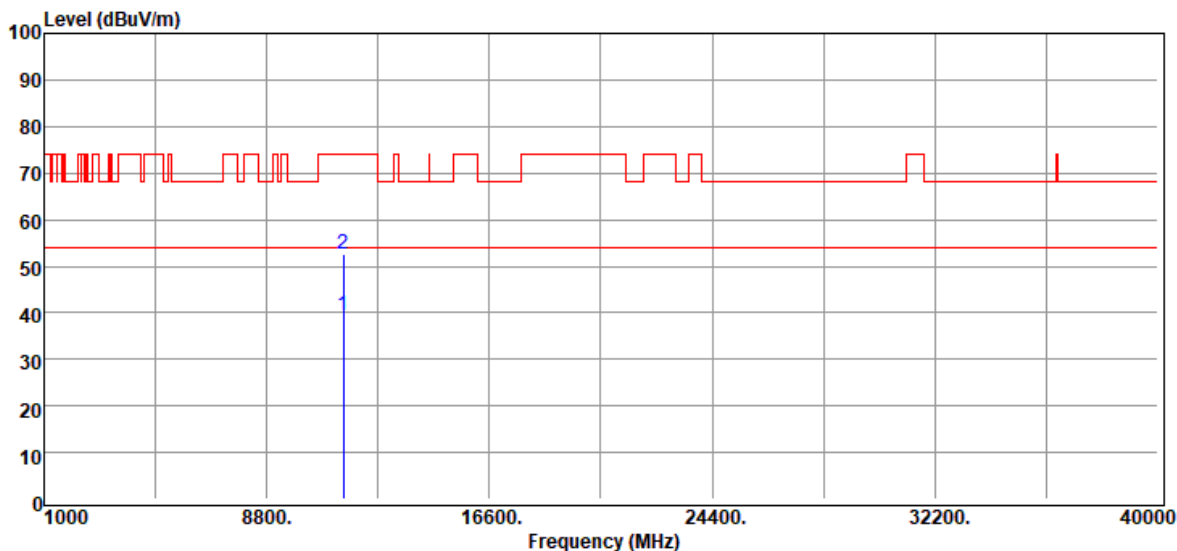
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 4
Test Channel :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.6/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	26.81	12.69	39.50	54.00	-14.50
11490.00	Peak	39.97	12.69	52.66	74.00	-21.34

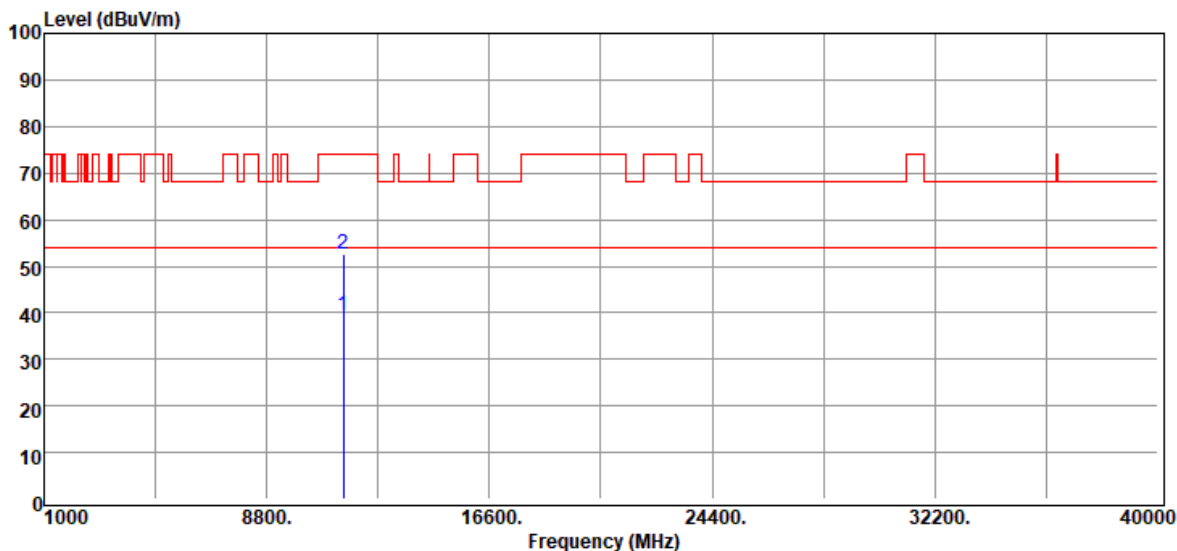
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	26.68	12.69	39.37	54.00	-14.63
11490.00	Peak	39.95	12.69	52.64	74.00	-21.36

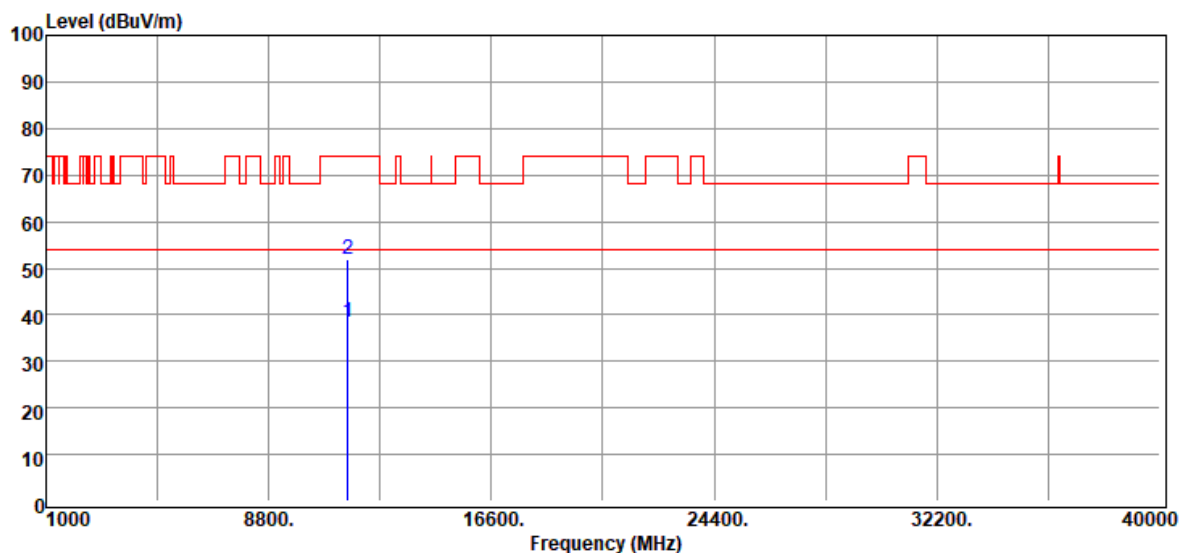
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	26.06	12.38	38.44	54.00	-15.56
11570.00	Peak	39.44	12.38	51.82	74.00	-22.18

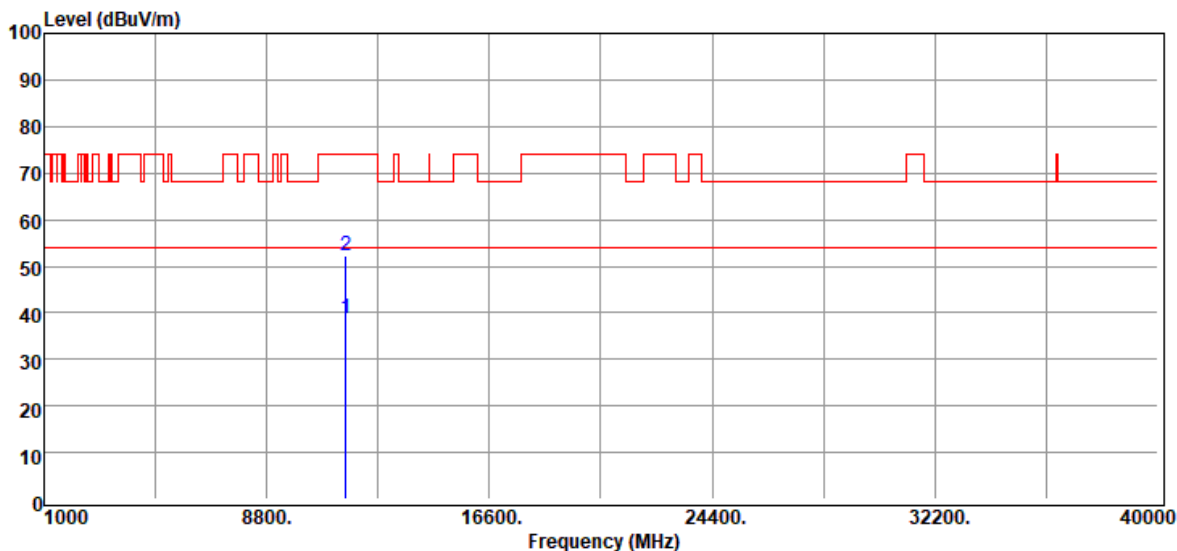
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	26.35	12.38	38.73	54.00	-15.27
11570.00	Peak	39.84	12.38	52.22	74.00	-21.78

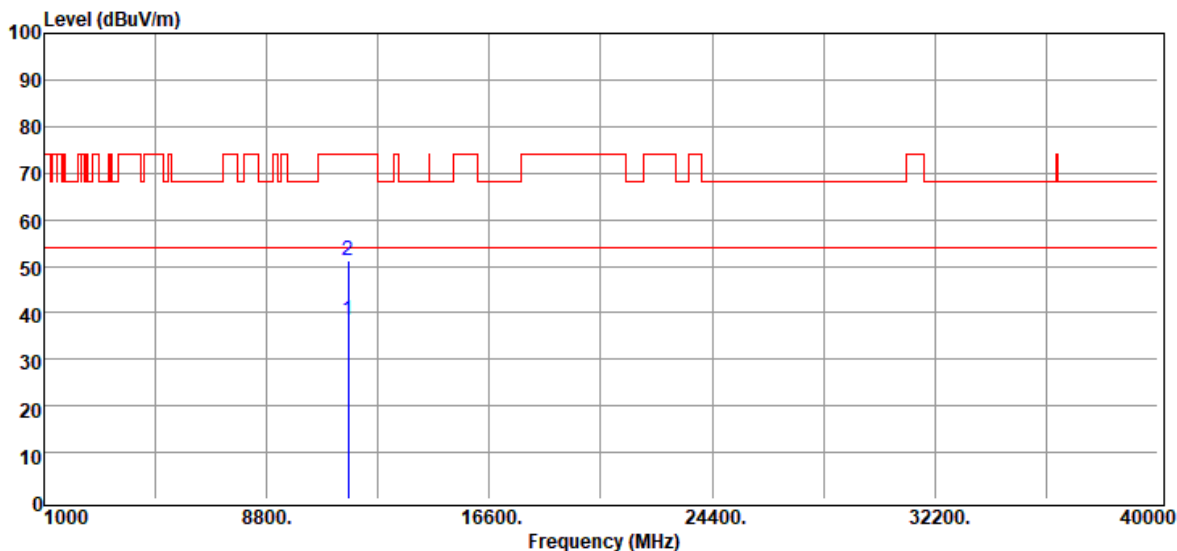
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	27.05	11.21	38.26	54.00	-15.74
11650.00	Peak	39.98	11.21	51.19	74.00	-22.81

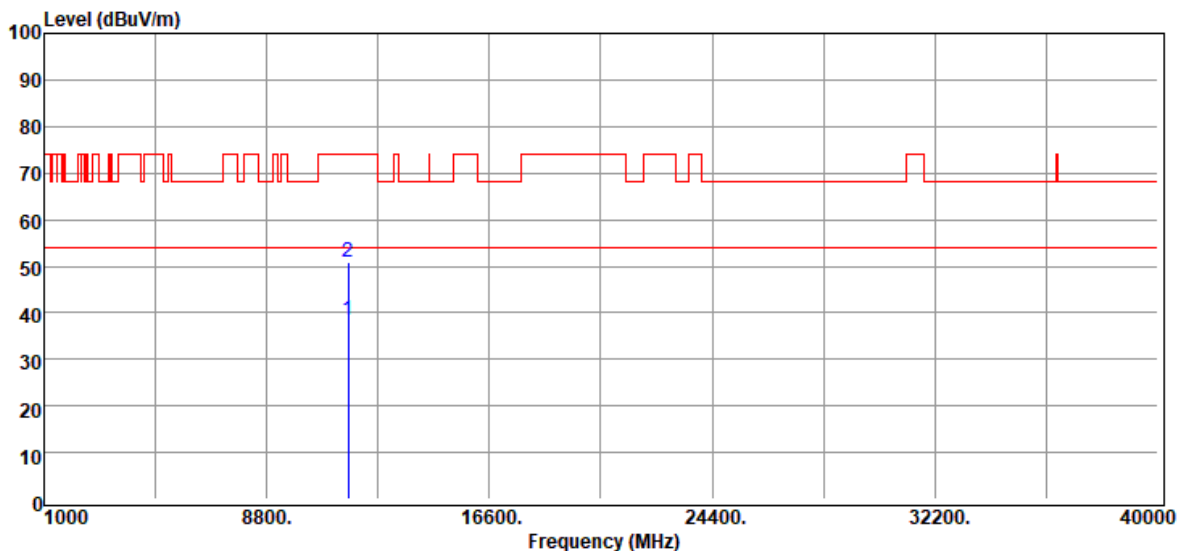
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	27.22	11.21	38.43	54.00	-15.57
11650.00	Peak	39.56	11.21	50.77	74.00	-23.23

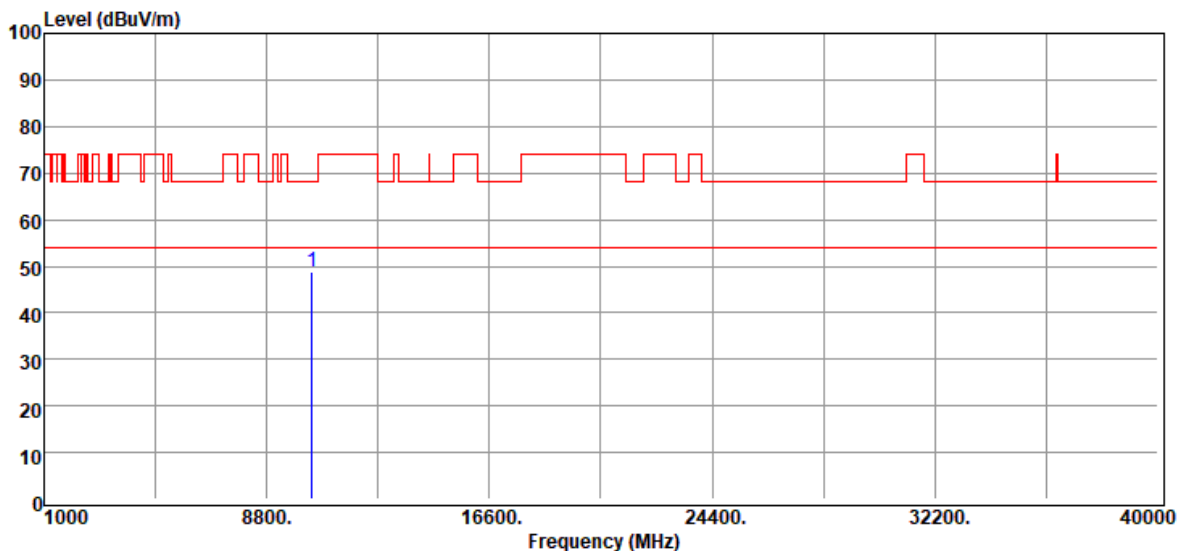
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 1
 Test Channel :5190 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	38.19	10.57	48.76	68.20	-19.44

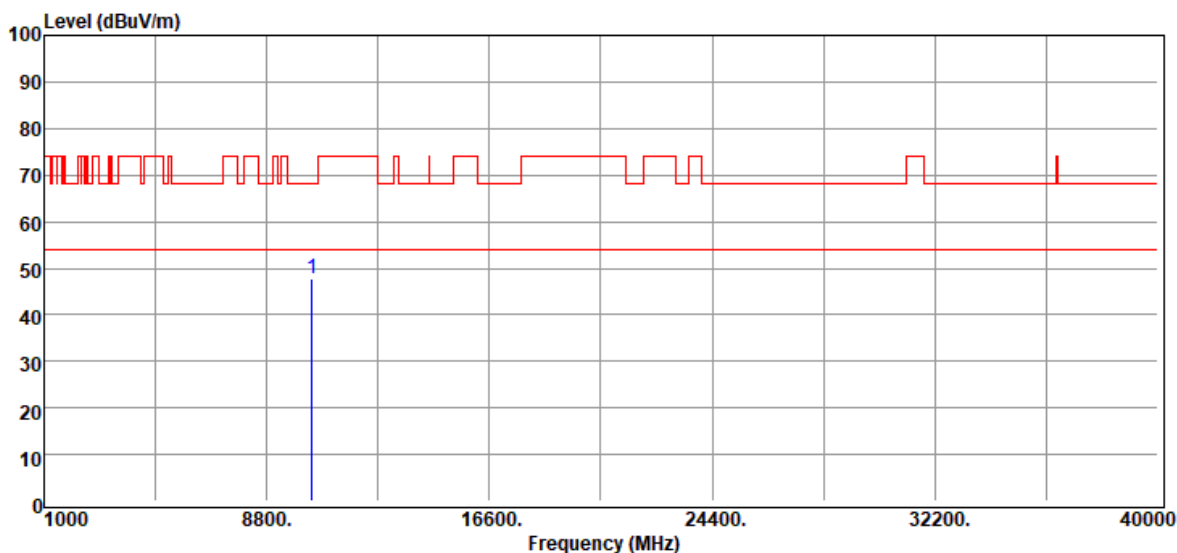
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 1
 Test Channel :5190 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	37.19	10.57	47.76	68.20	-20.44

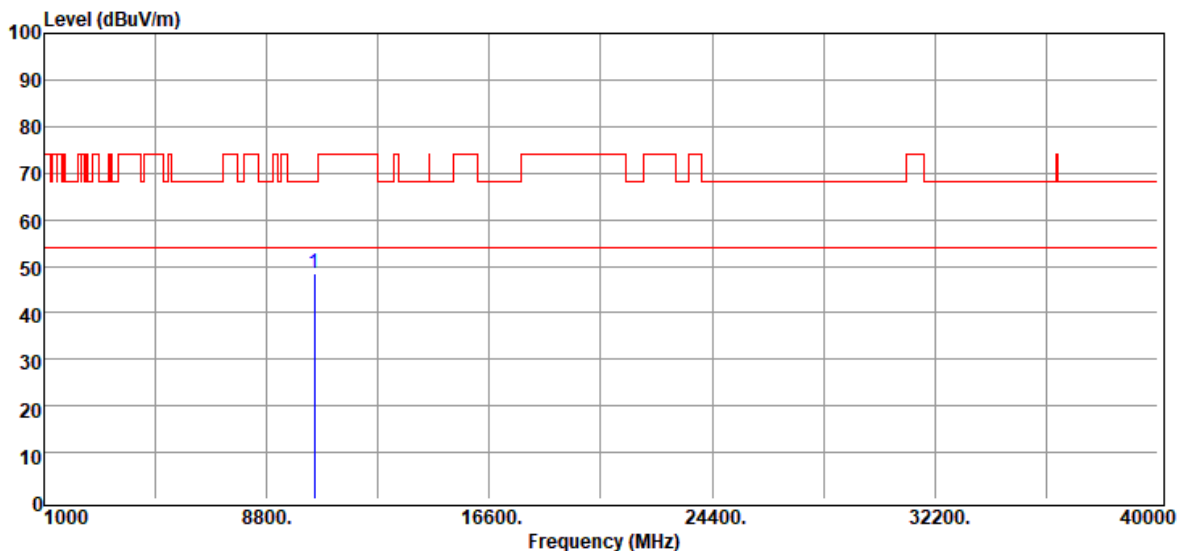
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 1
 Test Channel :5230 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	37.25	11.10	48.35	68.20	-19.85

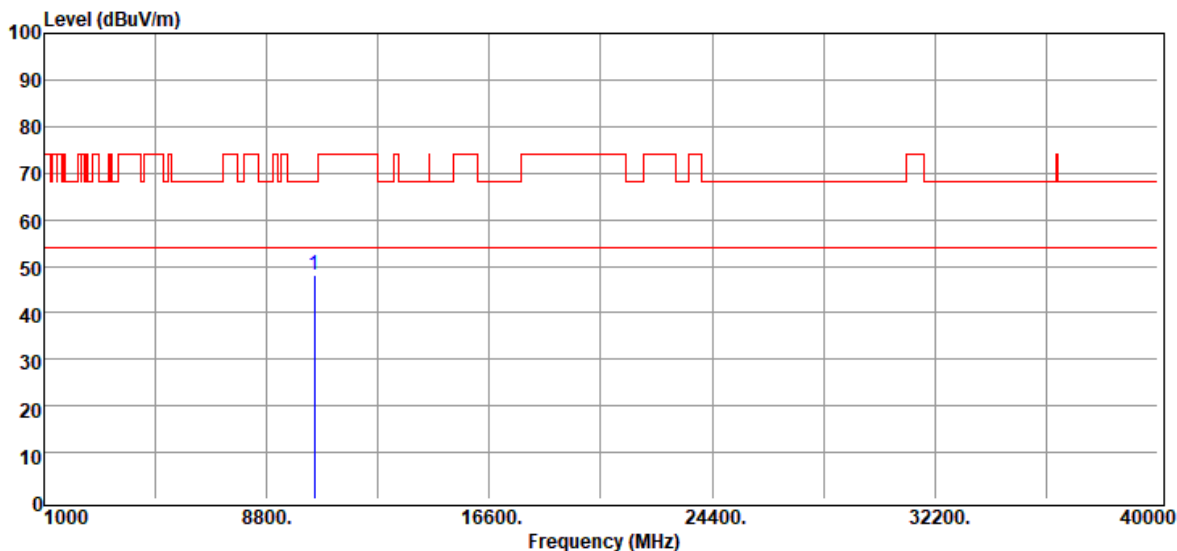
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 1
 Test Channel :5230 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	37.05	11.10	48.15	68.20	-20.05

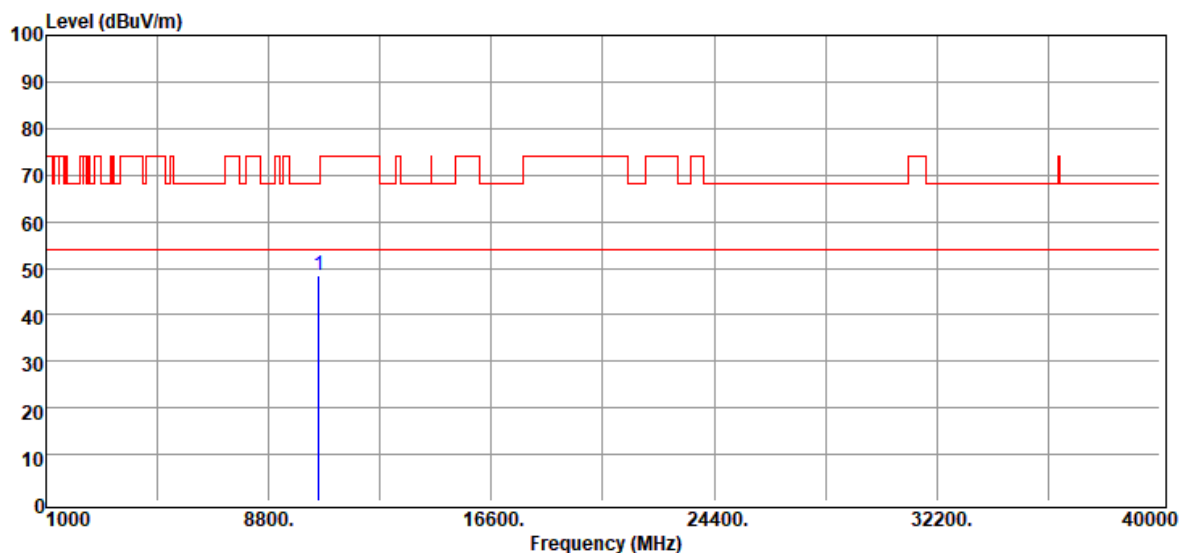
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 2
 Test Channel :5270 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	37.17	11.20	48.37	68.20	-19.83

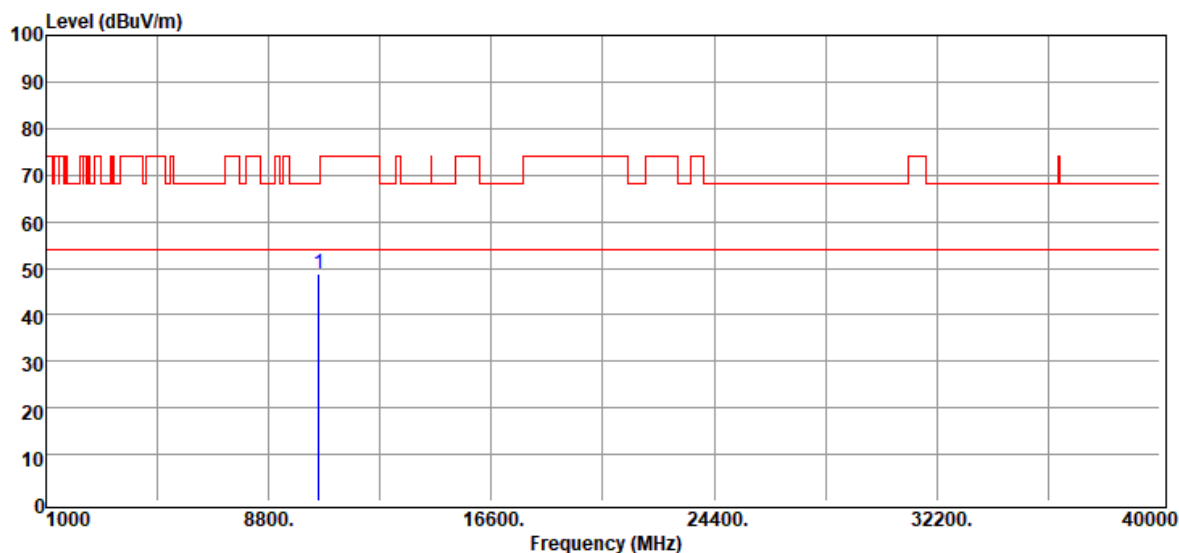
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 2
 Test Channel :5270 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	37.47	11.20	48.67	68.20	-19.53

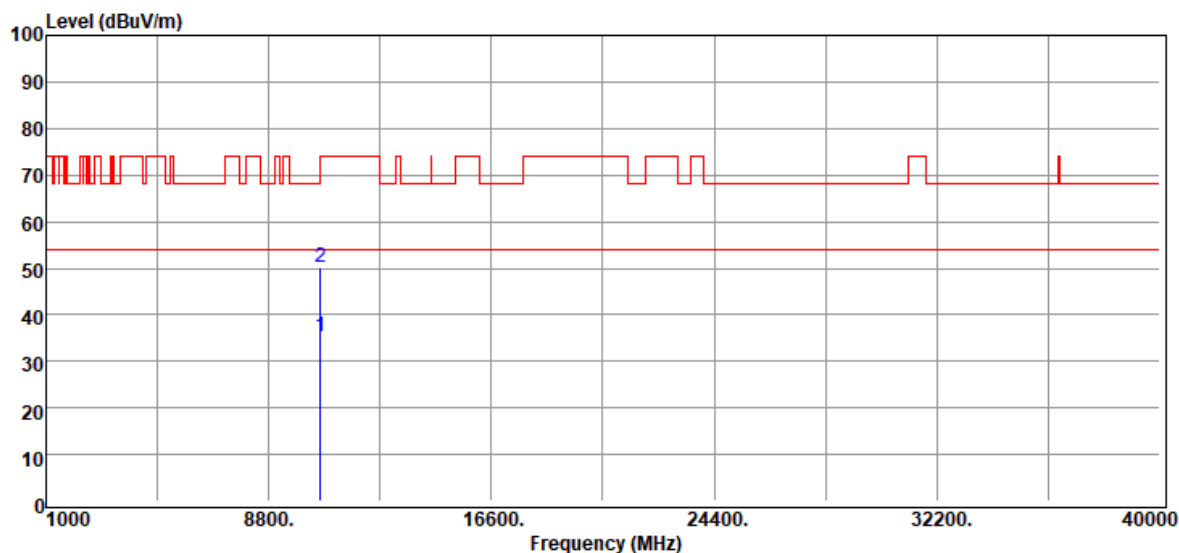
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Report Number :E2/2019/C0008
Operation Mode :802.11n40 / Band 2
Test Channel :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.6/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	24.16	11.10	35.26	54.00	-18.74
10620.00	Peak	39.16	11.10	50.26	74.00	-23.74

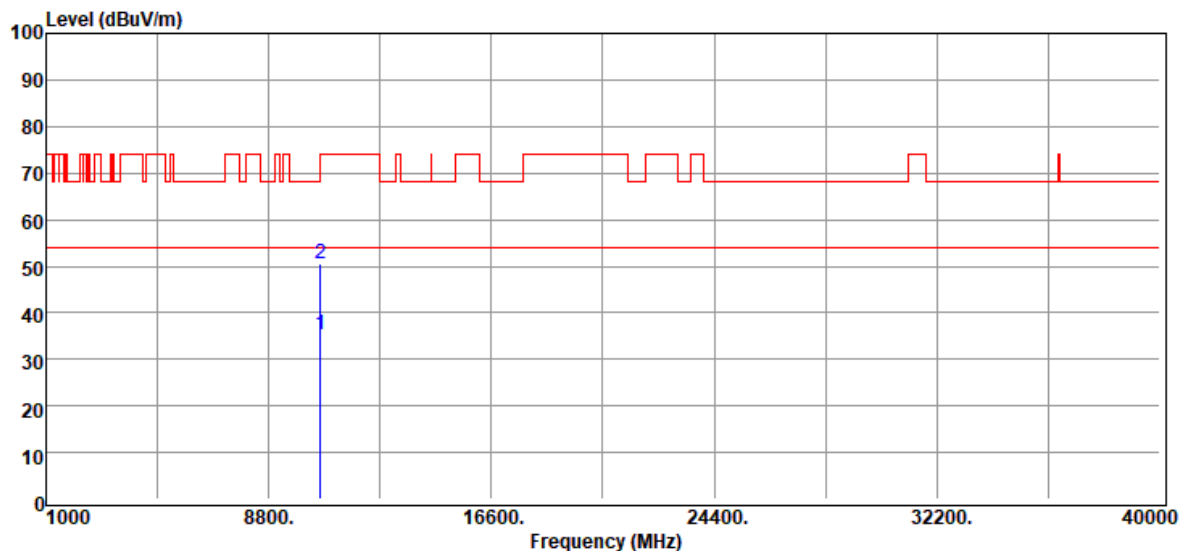
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 2
 Test Channel :5310 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	24.07	11.10	35.17	54.00	-18.83
10620.00	Peak	39.37	11.10	50.47	74.00	-23.53

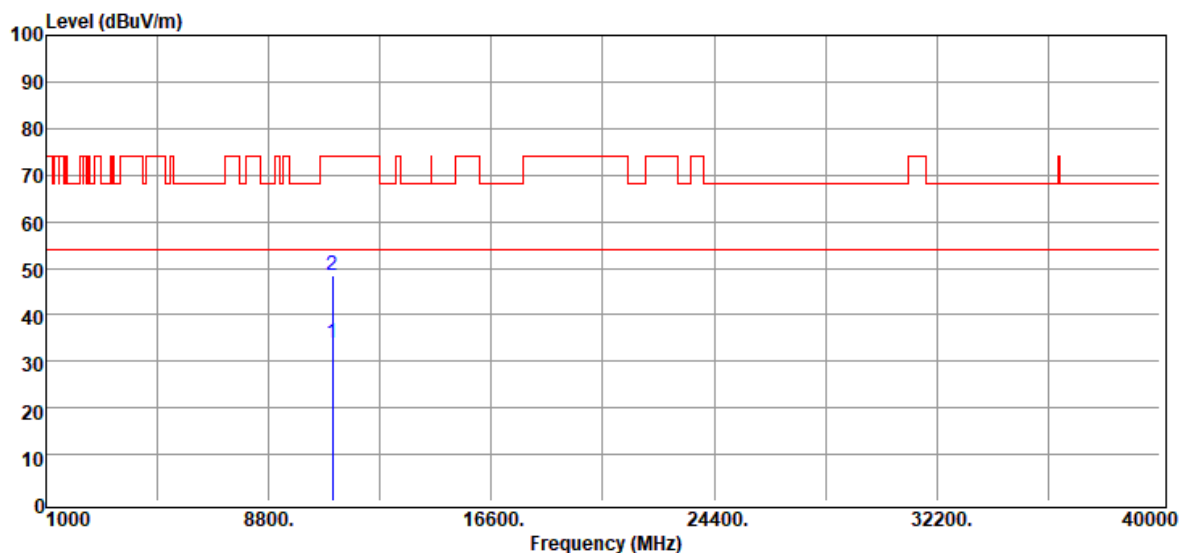
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5510 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	24.07	9.98	34.05	54.00	-19.95
11020.00	Peak	38.59	9.98	48.57	74.00	-25.43

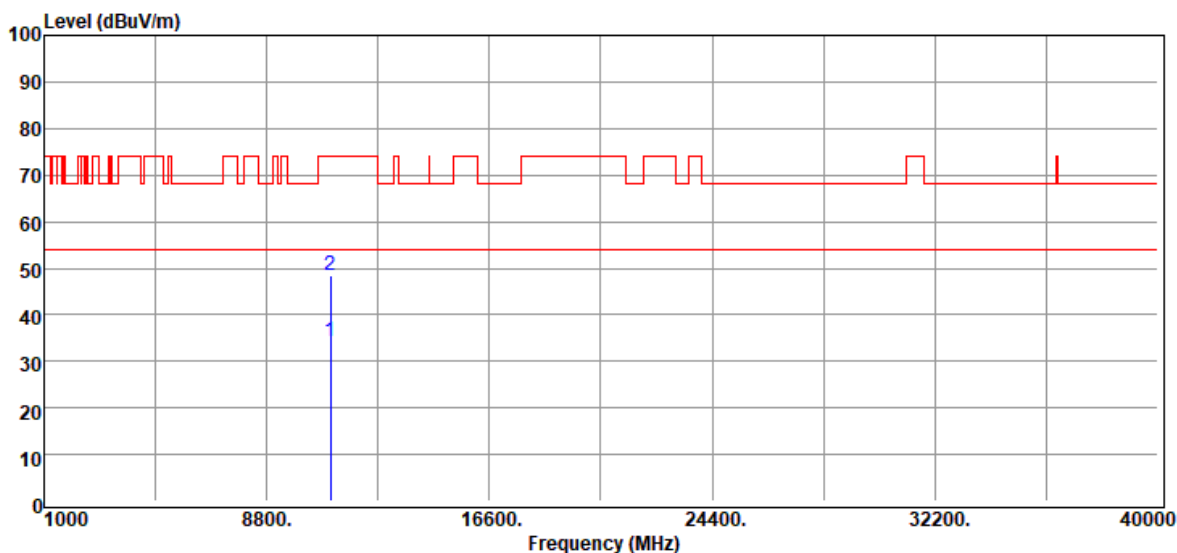
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5510 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	24.16	9.98	34.14	54.00	-19.86
11020.00	Peak	38.38	9.98	48.36	74.00	-25.64

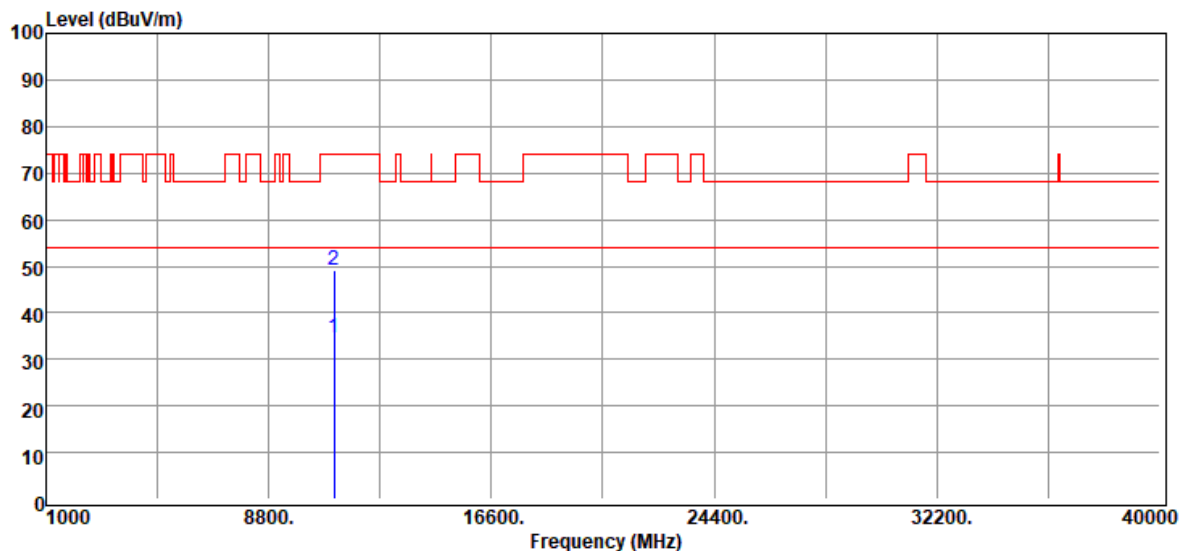
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5550 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	24.16	10.40	34.56	54.00	-19.44
11100.00	Peak	38.65	10.40	49.05	74.00	-24.95

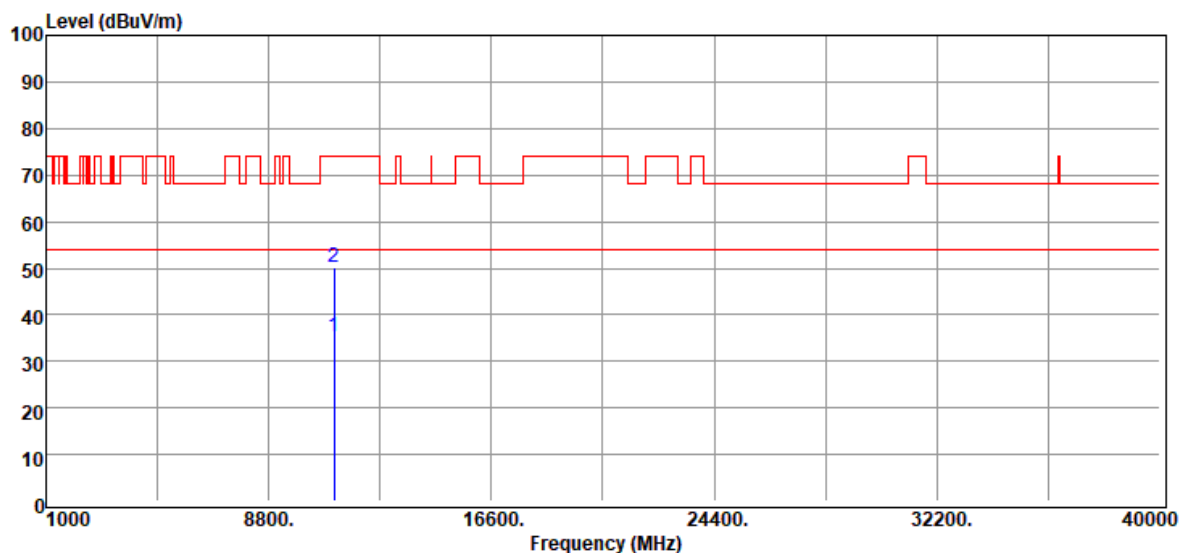
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5550 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	24.85	10.40	35.25	54.00	-18.75
11100.00	Peak	39.85	10.40	50.25	74.00	-23.75

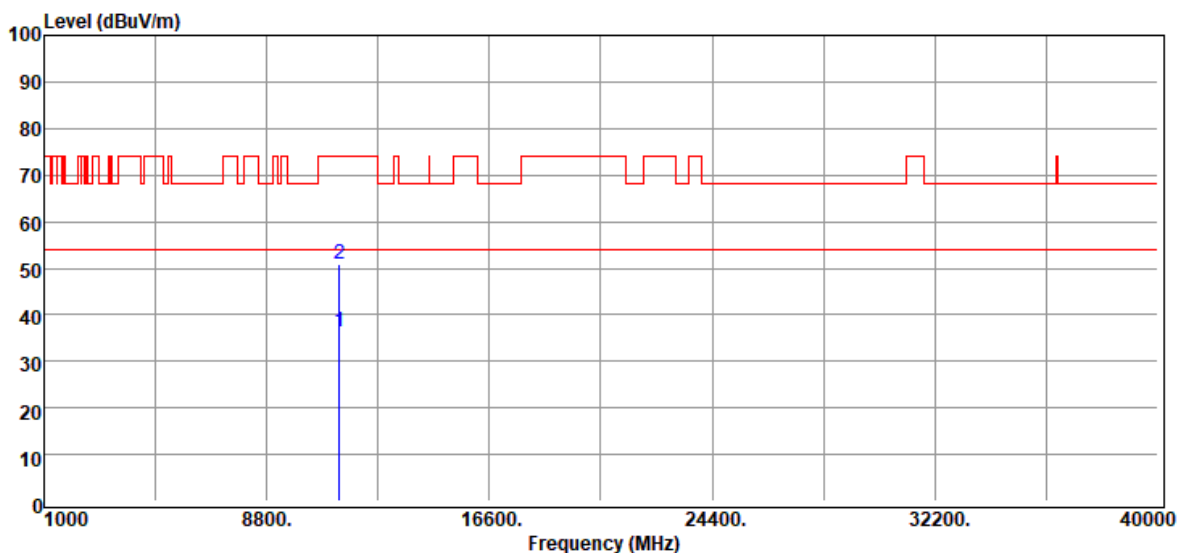
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Report Number :E2/2019/C0008
Operation Mode :802.11n40 / Band 3
Test Channel :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-21
Temp./Humi. :20.6/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	25.03	11.26	36.29	54.00	-17.71
11340.00	Peak	39.56	11.26	50.82	74.00	-23.18

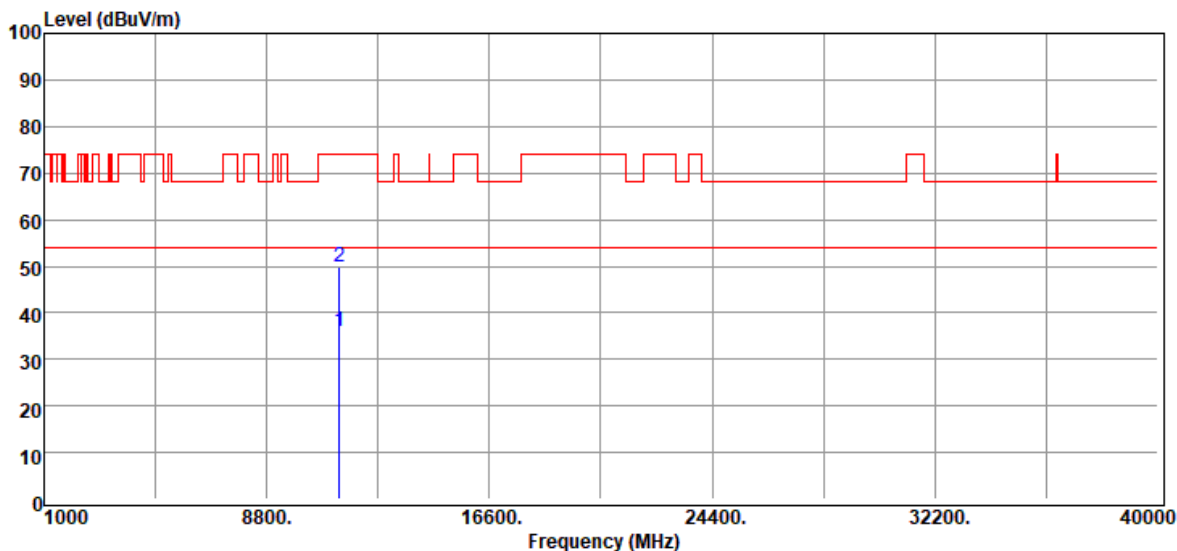
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5670 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	24.56	11.26	35.82	54.00	-18.18
11340.00	Peak	38.67	11.26	49.93	74.00	-24.07

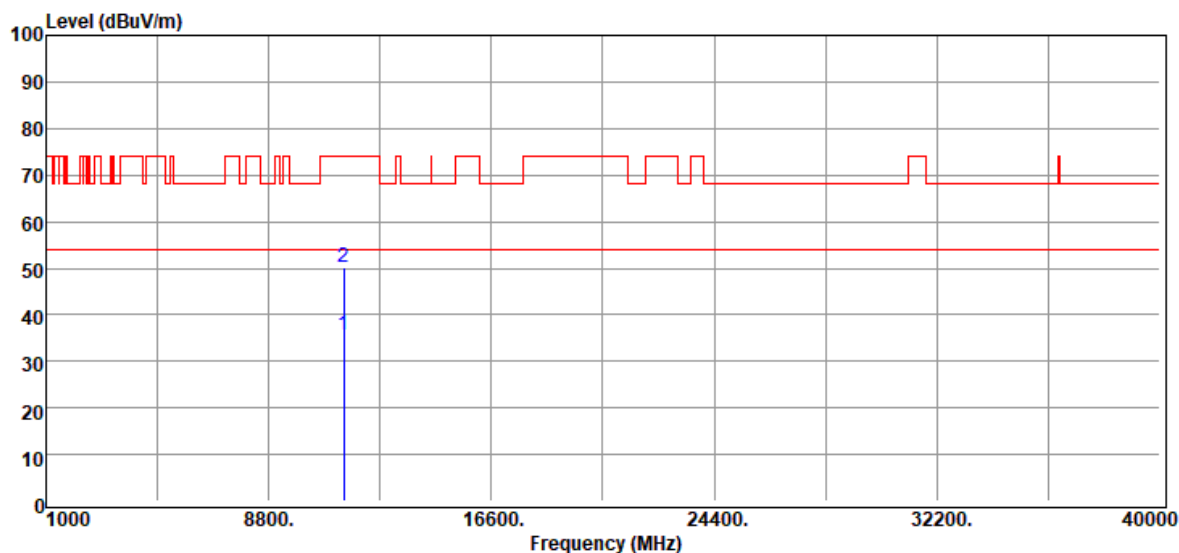
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3-4
 Test Channel :5710 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	24.23	11.45	35.68	54.00	-18.32
11420.00	Peak	38.83	11.45	50.28	74.00	-23.72

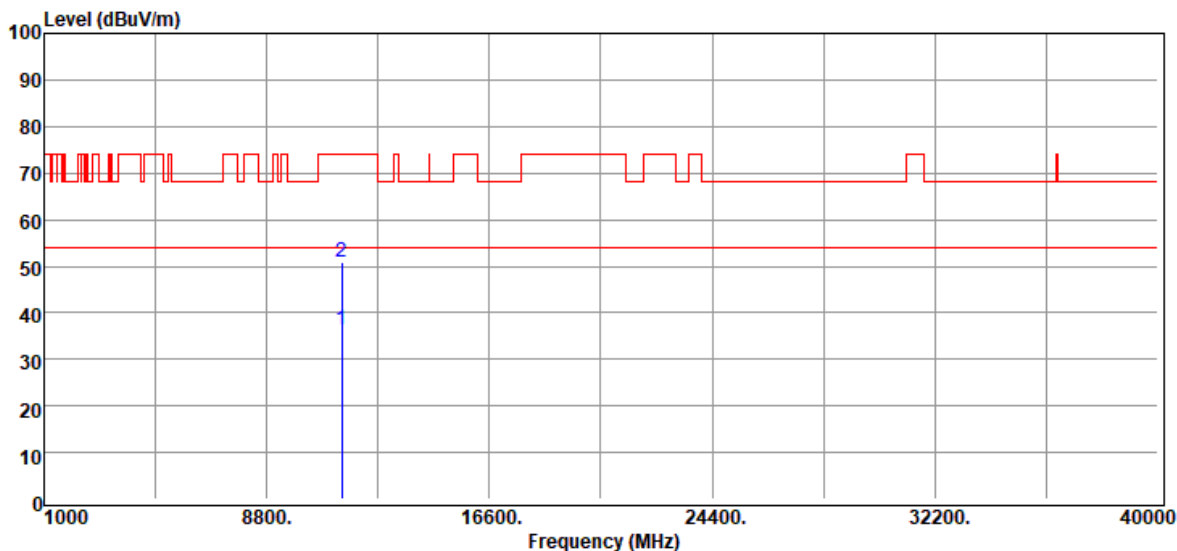
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3-4
 Test Channel :5710 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	25.03	11.45	36.48	54.00	-17.52
11420.00	Peak	39.26	11.45	50.71	74.00	-23.29

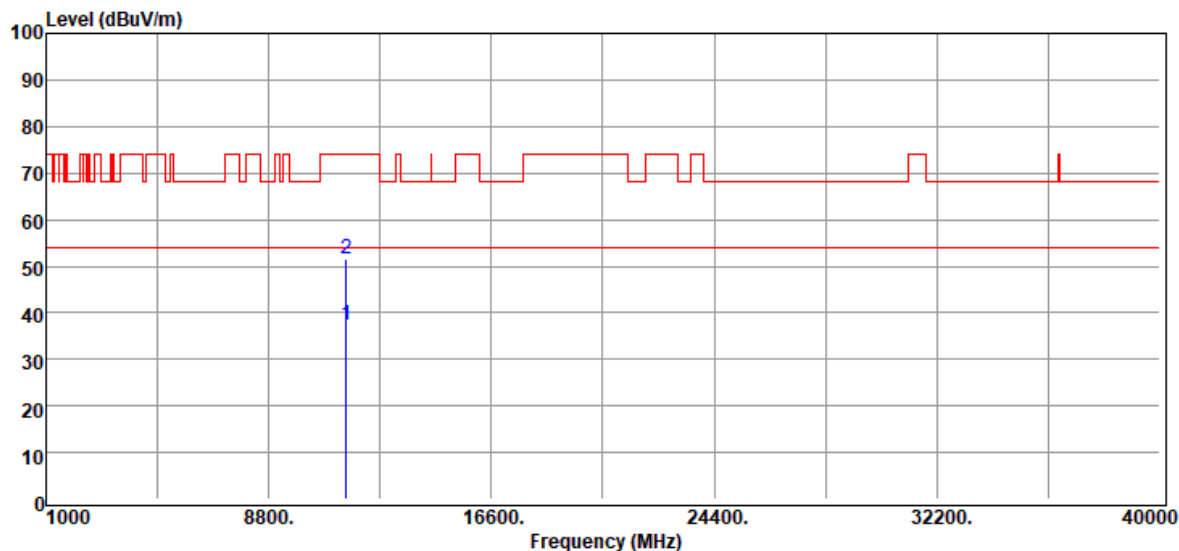
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 4
 Test Channel :5755 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	24.55	12.80	37.35	54.00	-16.65
11510.00	Peak	38.92	12.80	51.72	74.00	-22.28

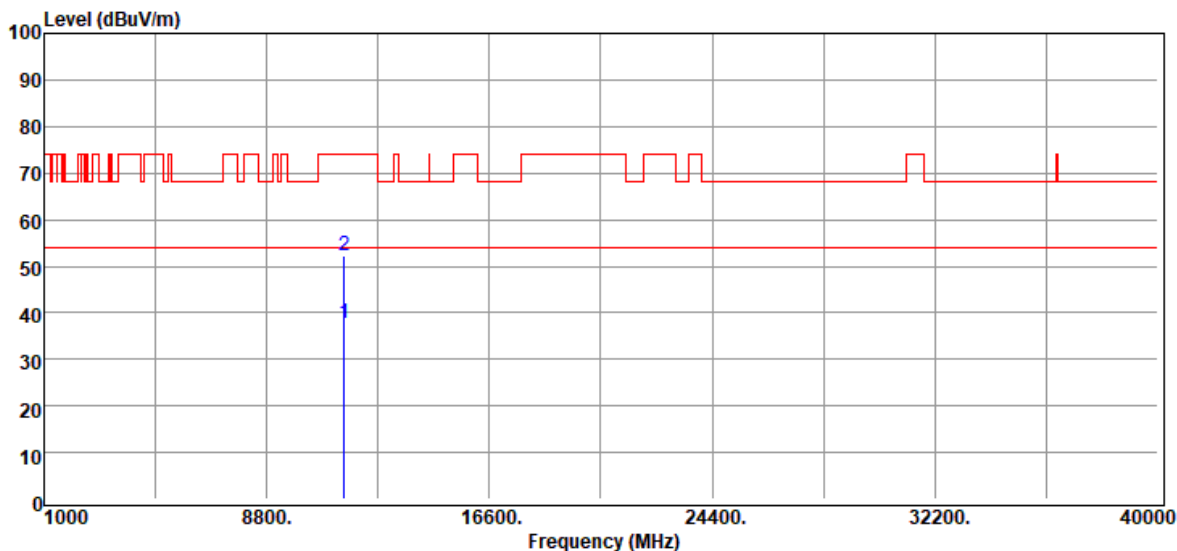
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 4
 Test Channel :5755 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	24.97	12.80	37.77	54.00	-16.23
11510.00	Peak	39.45	12.80	52.25	74.00	-21.75

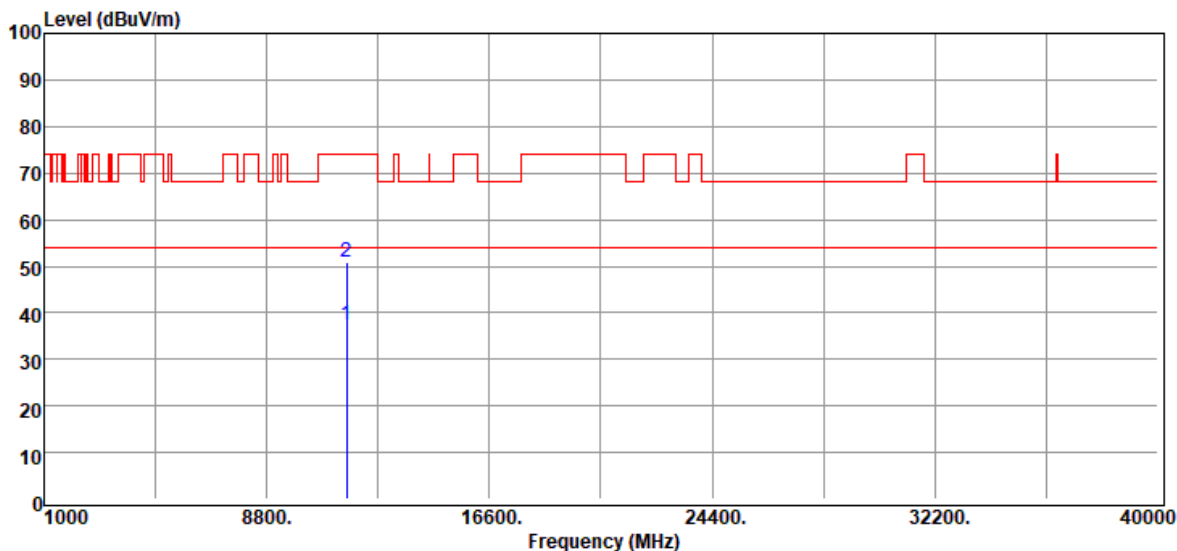
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 4
 Test Channel :5795 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	25.03	12.24	37.27	54.00	-16.73
11590.00	Peak	38.79	12.24	51.03	74.00	-22.97

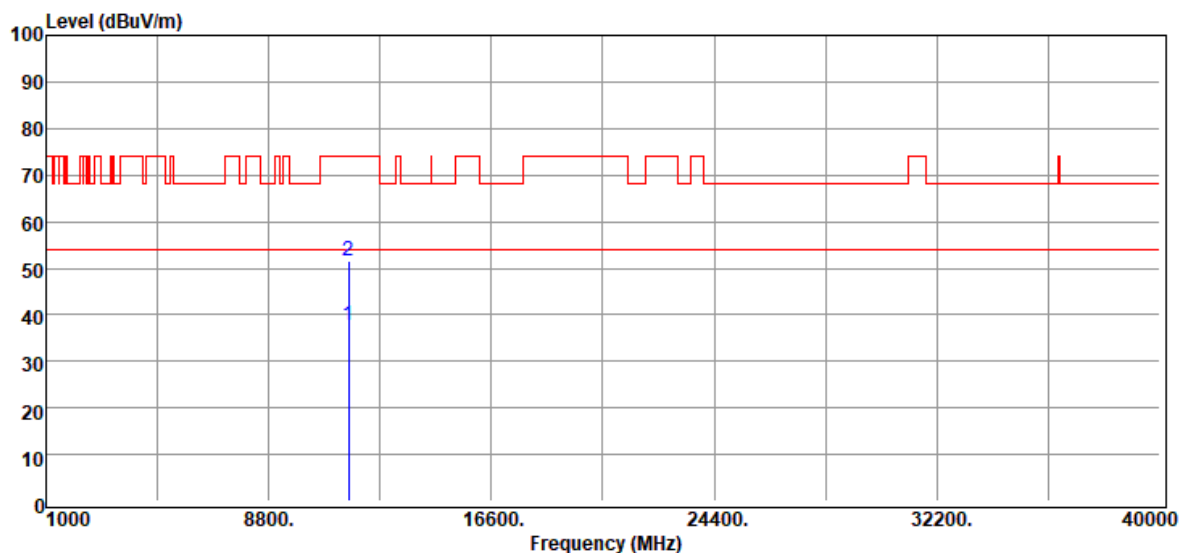
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 4
 Test Channel :5795 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	25.62	12.24	37.86	54.00	-16.14
11590.00	Peak	39.46	12.24	51.70	74.00	-22.30

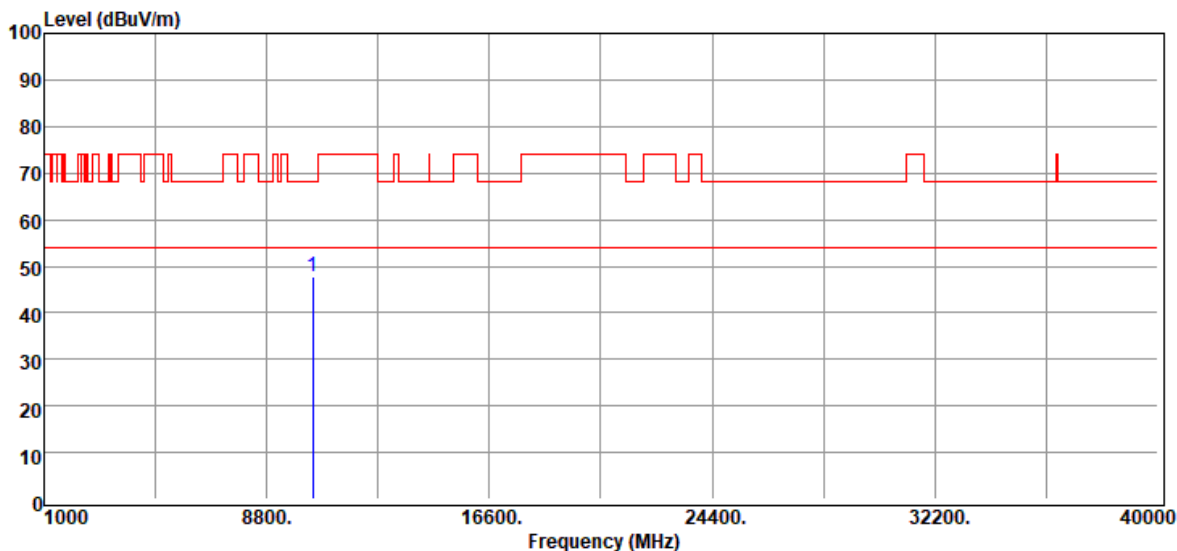
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 1
 Test Channel :5210 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	36.78	10.92	47.70	68.20	-20.50

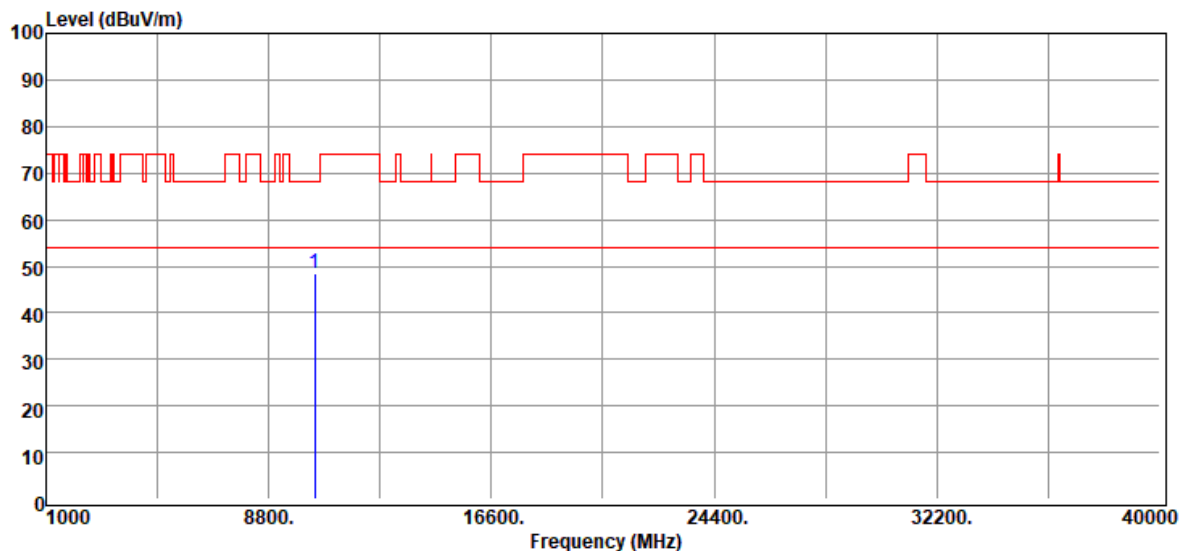
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 1
 Test Channel :5210 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	37.51	10.92	48.43	68.20	-19.77

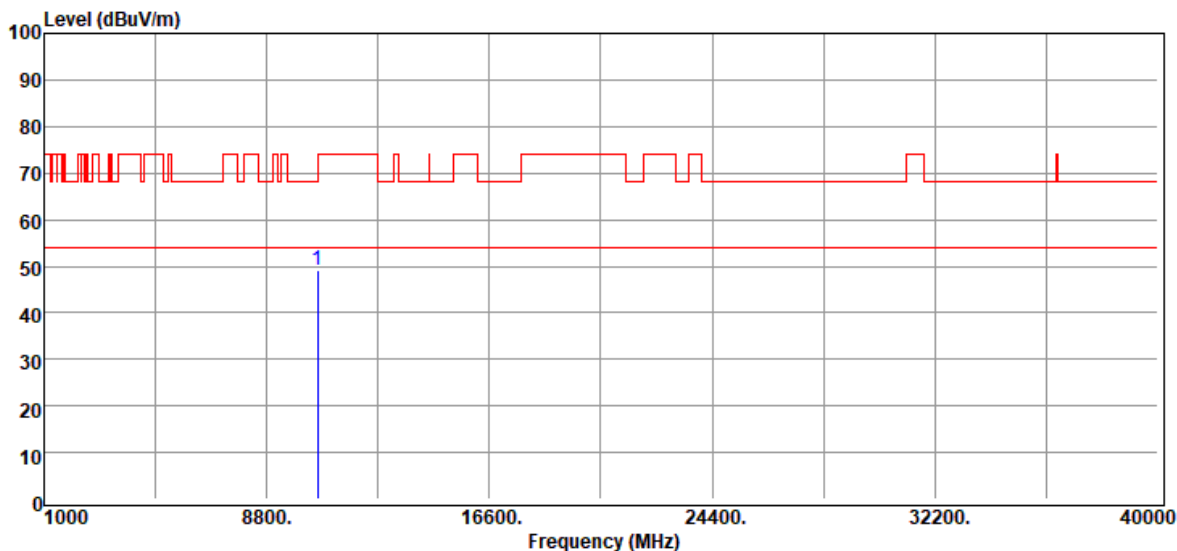
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 2
 Test Channel :5290 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	38.03	11.14	49.17	68.20	-19.03

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 2

Test Channel :5290 MHz

Test Mode :TX CH HIGH

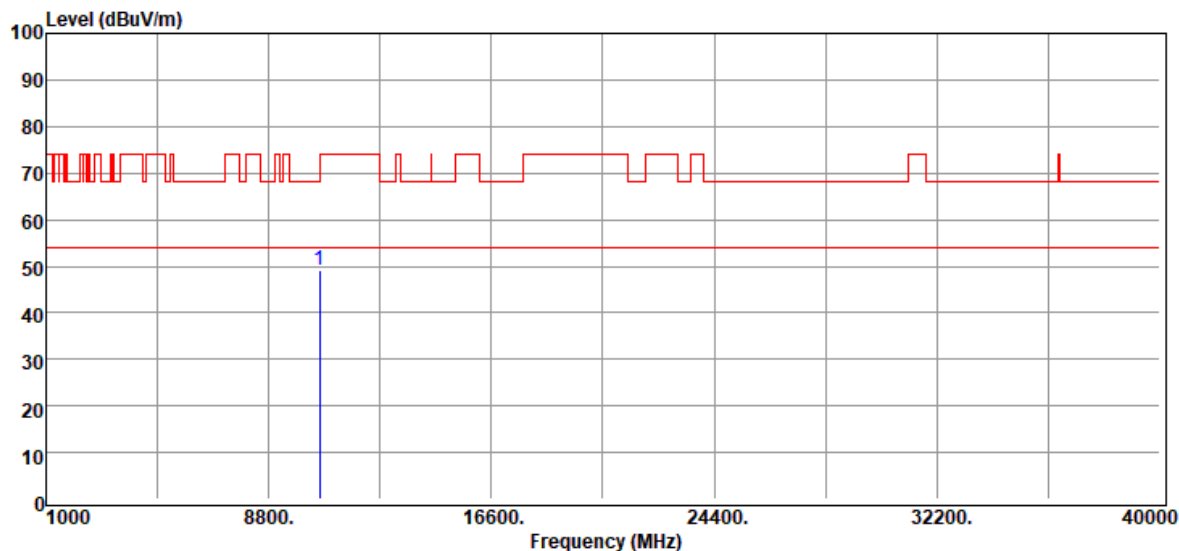
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.6/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	37.97	11.14	49.11	68.20	-19.09

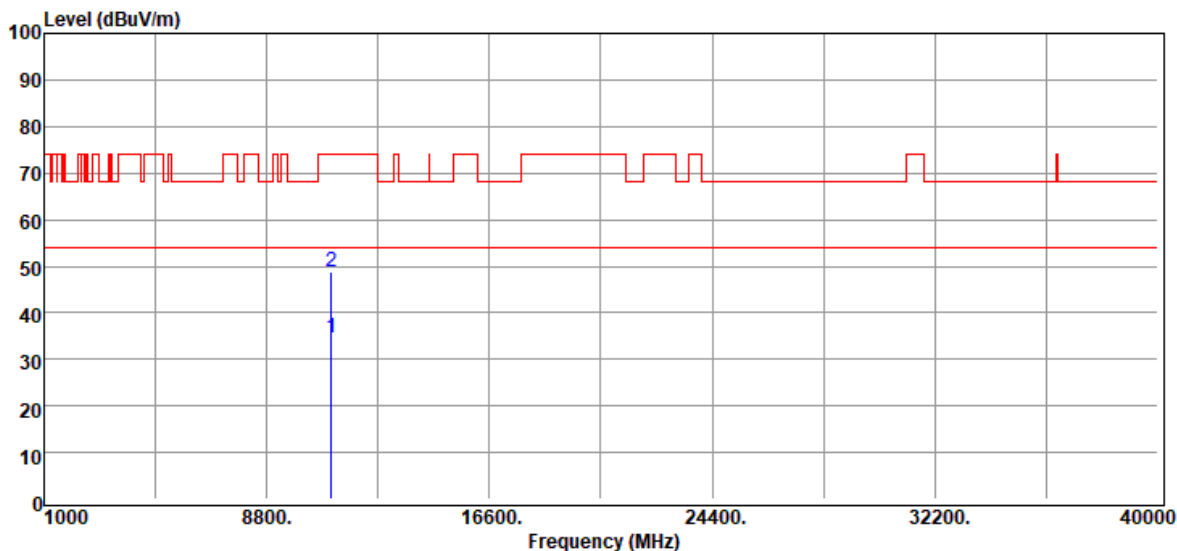
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 3
 Test Channel :5530 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	24.25	10.20	34.45	54.00	-19.55
11060.00	Peak	38.44	10.20	48.64	74.00	-25.36

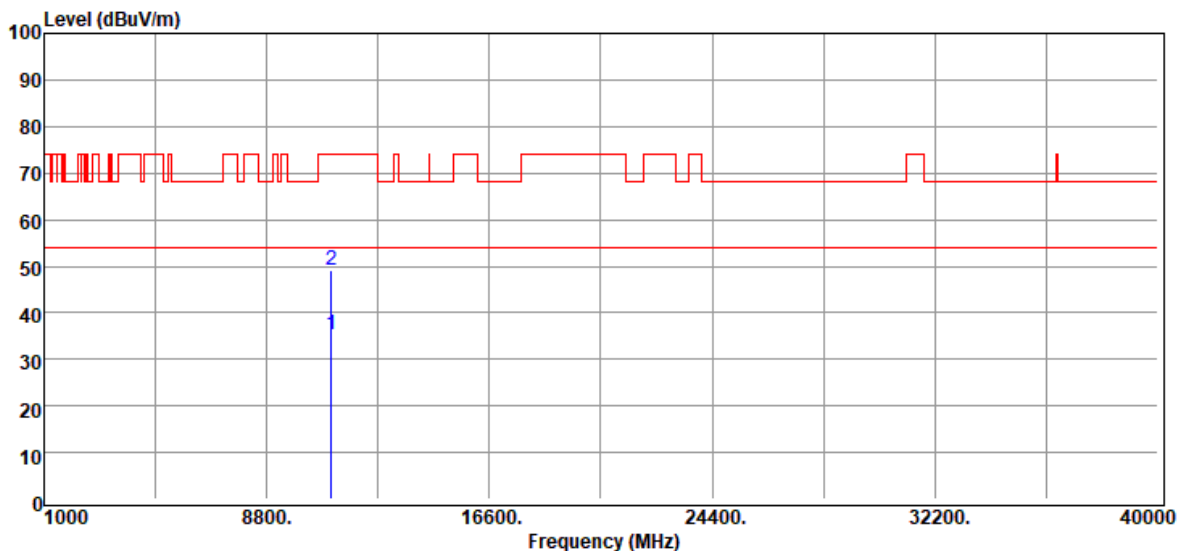
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 3
 Test Channel :5530 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	24.96	10.20	35.16	54.00	-18.84
11060.00	Peak	38.97	10.20	49.17	74.00	-24.83

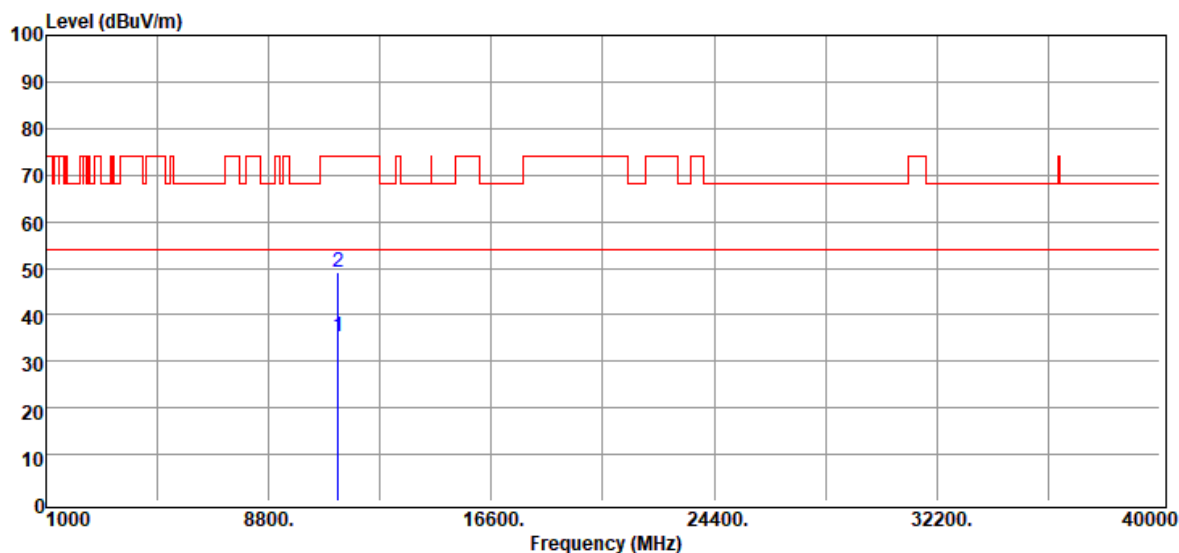
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 3
 Test Channel :5610 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	24.77	10.59	35.36	54.00	-18.64
11220.00	Peak	38.45	10.59	49.04	74.00	-24.96

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 3

Test Channel :5610 MHz

Test Mode :TX CH MID

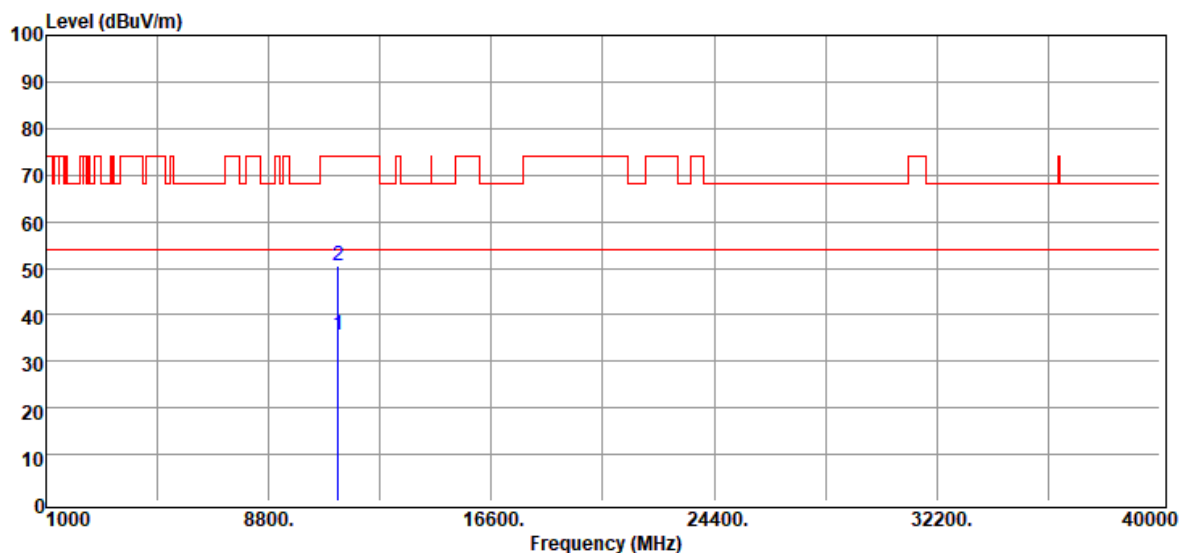
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.6/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	25.09	10.59	35.68	54.00	-18.32
11220.00	Peak	39.85	10.59	50.44	74.00	-23.56

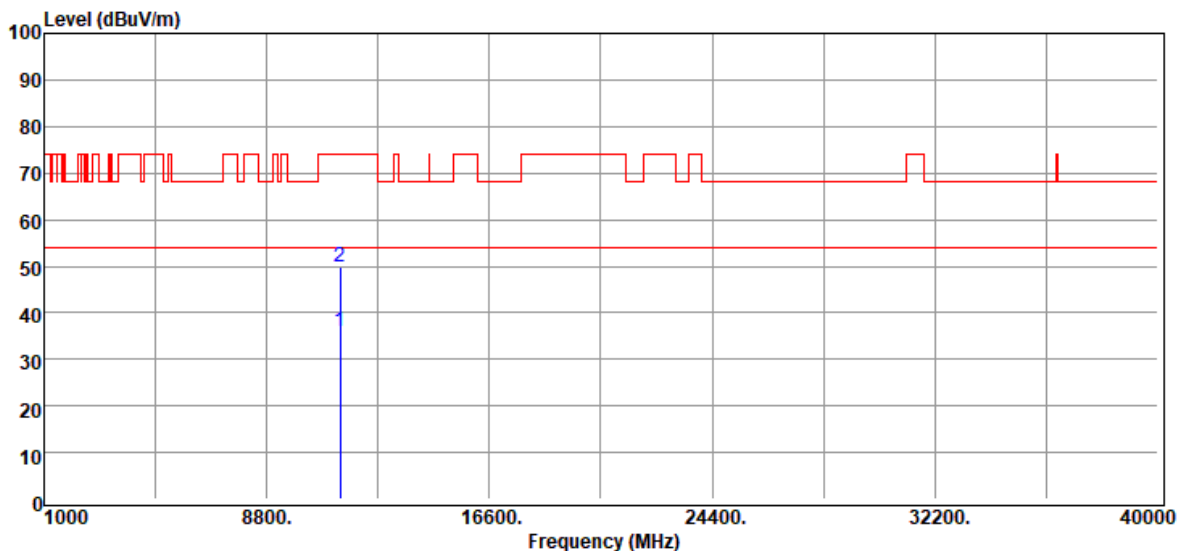
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 3
 Test Channel :5690 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	24.71	11.15	35.86	54.00	-18.14
11380.00	Peak	38.69	11.15	49.84	74.00	-24.16

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 3

Test Channel :5690 MHz

Test Mode :TX CH HIGH

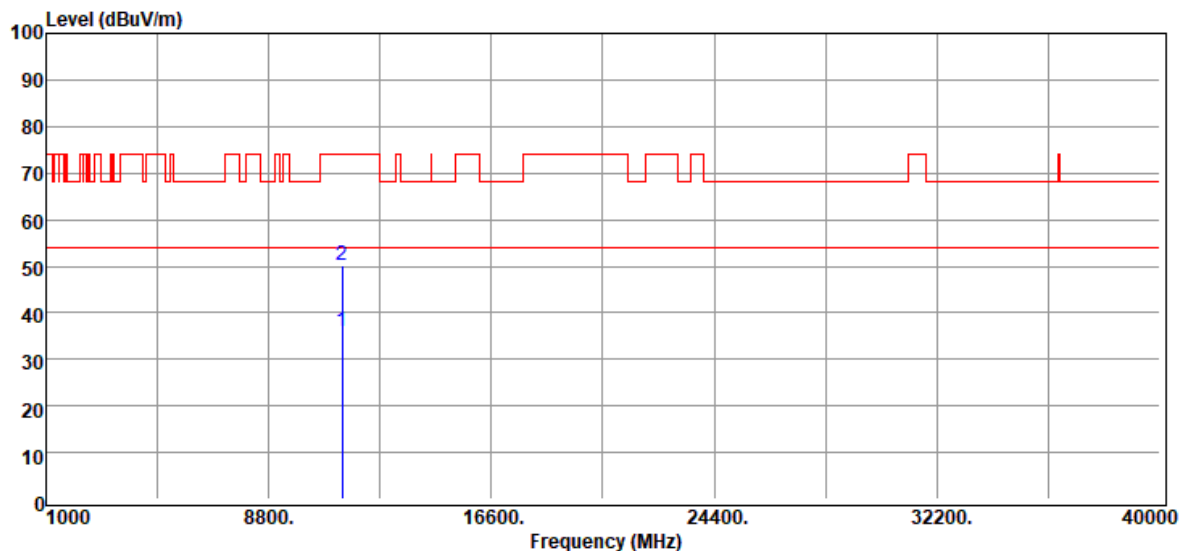
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.6/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	24.83	11.15	35.98	54.00	-18.02
11380.00	Peak	38.92	11.15	50.07	74.00	-23.93

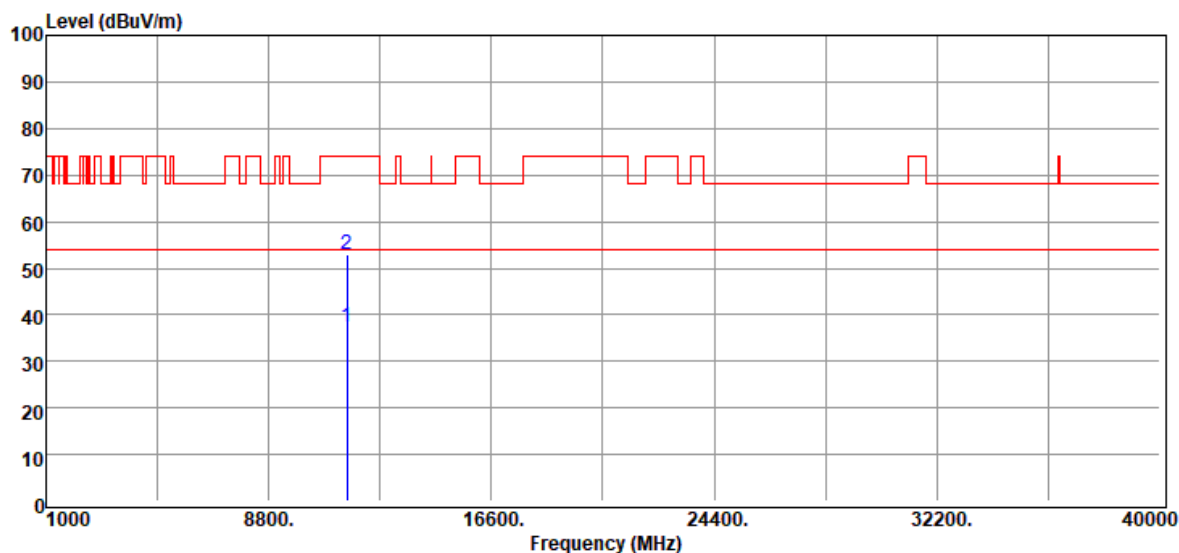
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 4
 Test Channel :5775 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-21
 Temp./Humi. :20.6/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	25.01	12.51	37.52	54.00	-16.48
11550.00	Peak	40.27	12.51	52.78	74.00	-21.22

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

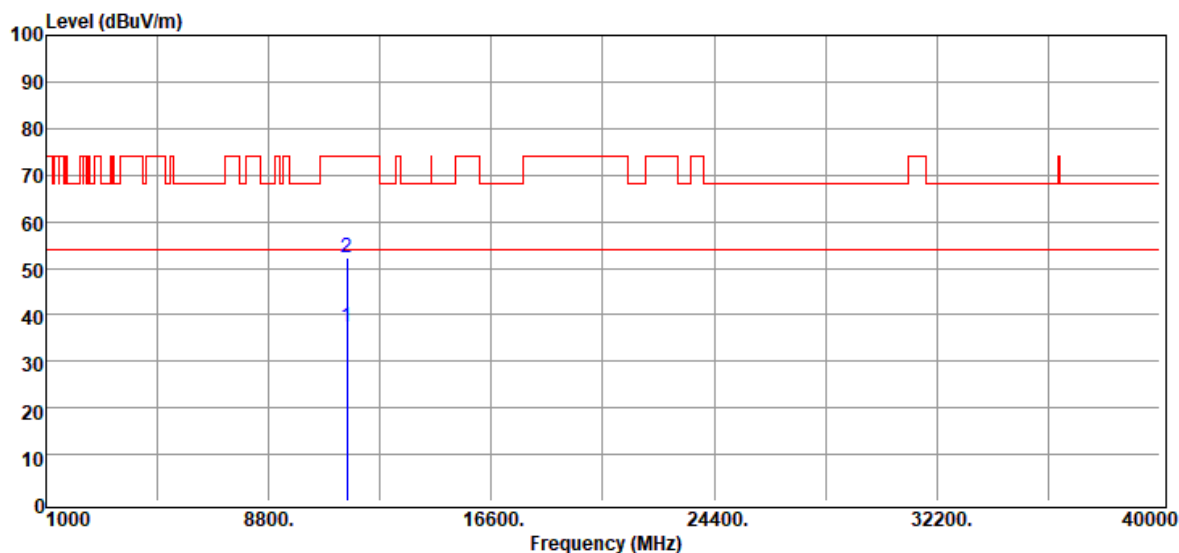
EUT Pol :E2 Plan

Test Date :2019-12-21

Temp./Humi. :20.6/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	24.93	12.51	37.44	54.00	-16.56
11550.00	Peak	39.90	12.51	52.41	74.00	-21.59

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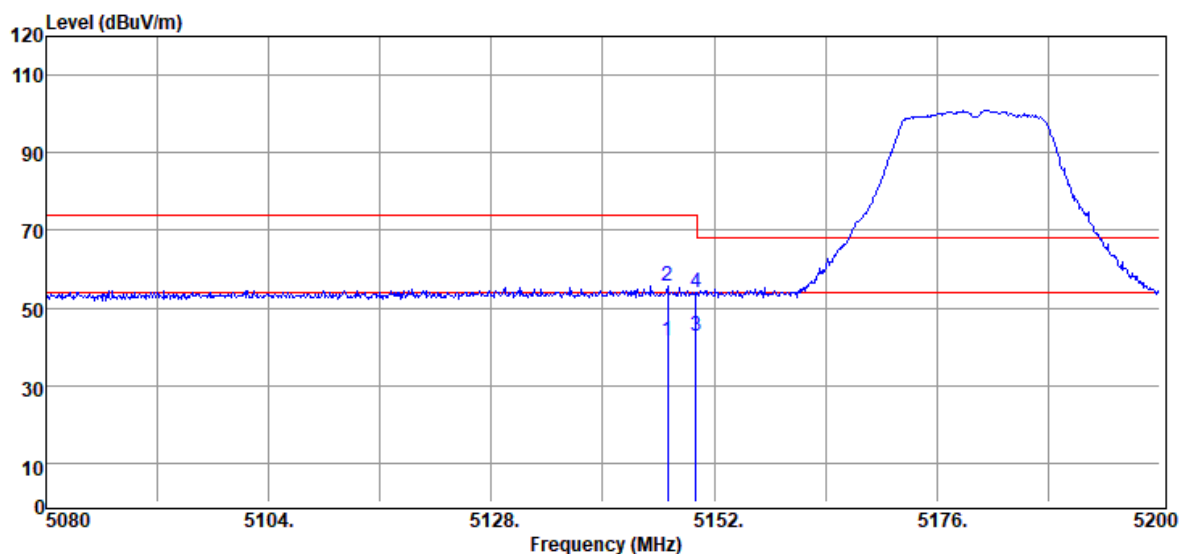
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11.7.3 Band edge falling to restricted band

Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 1
Test Channel :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.96	Average	41.28	0.43	41.71	54.00	-12.29
5146.96	Peak	55.29	0.43	55.72	74.00	-18.28
5150.00	Average	42.15	0.45	42.60	54.00	-11.40
5150.00	Peak	53.41	0.45	53.86	74.00	-20.14

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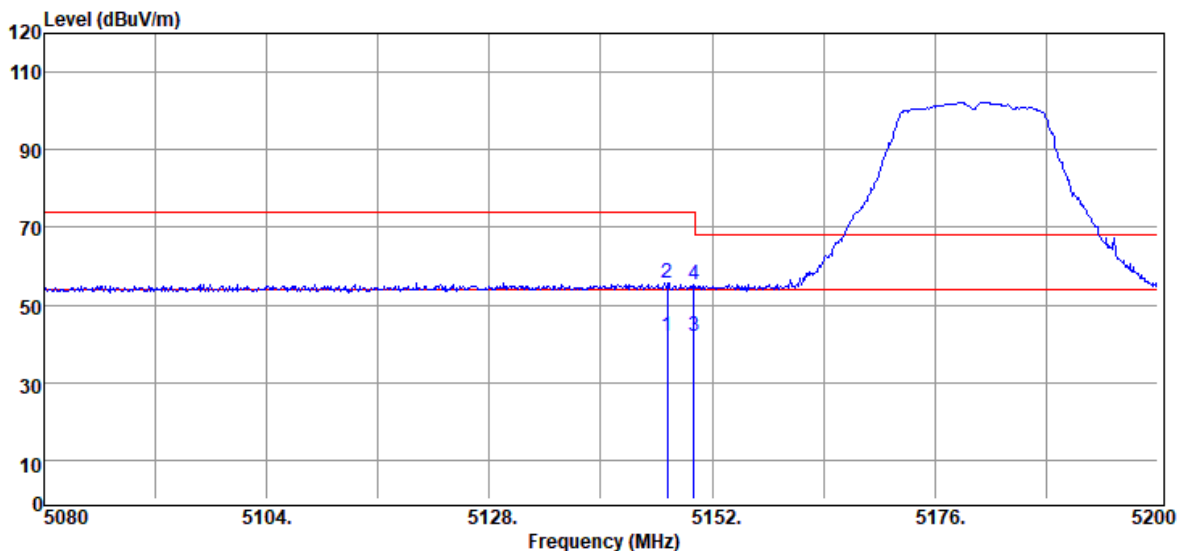
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 1
Test Channel :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5147.20	Average	41.58	0.43	42.01	54.00	-11.99
5147.20	Peak	55.40	0.43	55.83	74.00	-18.17
5150.00	Average	41.35	0.45	41.80	54.00	-12.20
5150.00	Peak	54.71	0.45	55.16	74.00	-18.84

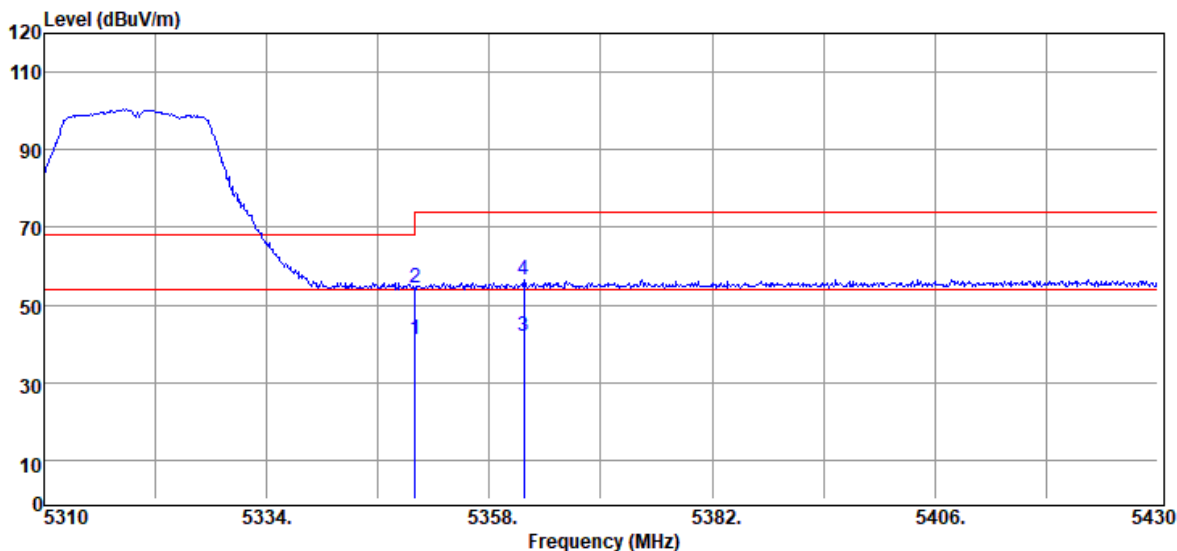
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 2
Test Channel :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.82	0.17	40.99	54.00	-13.01
5350.00	Peak	54.05	0.17	54.22	74.00	-19.78
5361.72	Average	41.74	0.31	42.05	54.00	-11.95
5361.72	Peak	56.28	0.31	56.59	74.00	-17.41

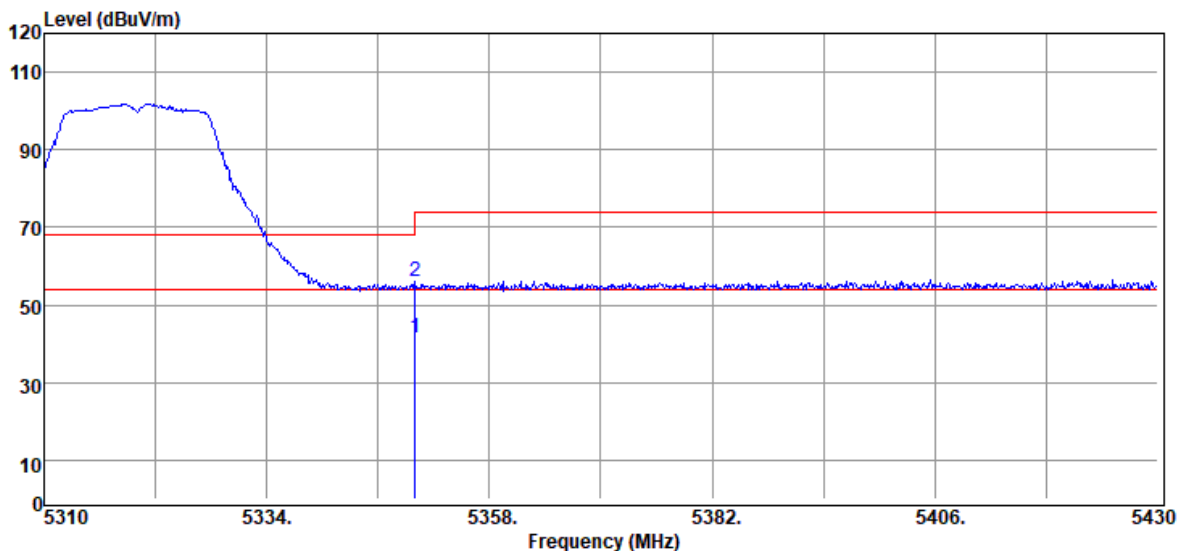
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 2
 Test Channel :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	41.20	0.17	41.37	54.00	-12.63
5350.00	Peak	55.94	0.17	56.11	74.00	-17.89

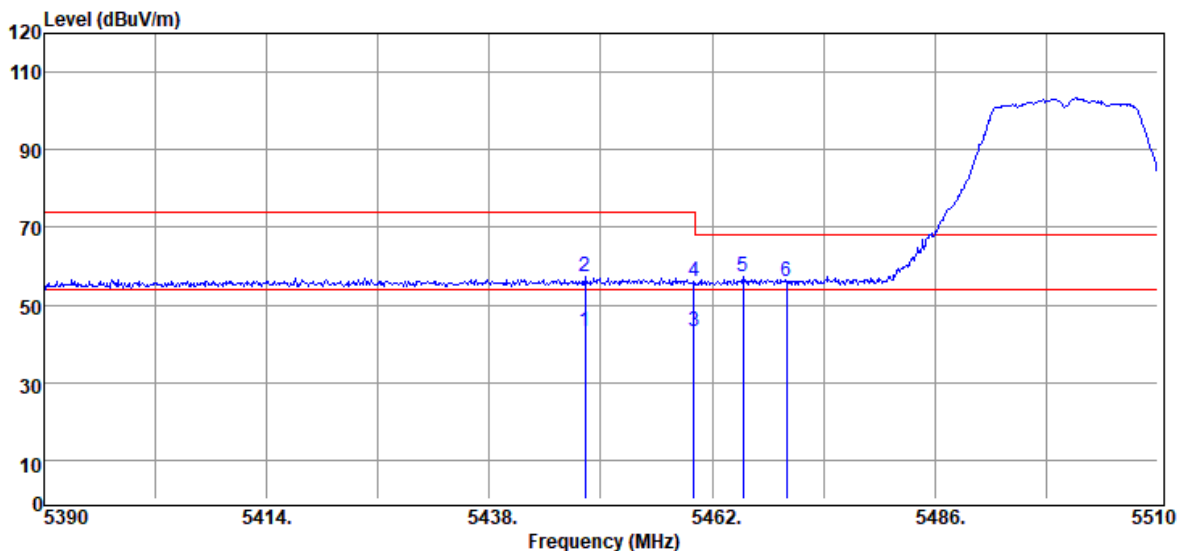
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 3
Test Channel :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5448.32	Average	41.95	1.20	43.15	54.00	-10.85
5448.32	Peak	56.11	1.20	57.31	74.00	-16.69
5460.00	Average	41.89	1.28	43.17	54.00	-10.83
5460.00	Peak	54.59	1.28	55.87	74.00	-18.13
5465.36	Peak	55.85	1.32	57.17	68.20	-11.03
5470.00	Peak	54.52	1.36	55.88	68.20	-12.32

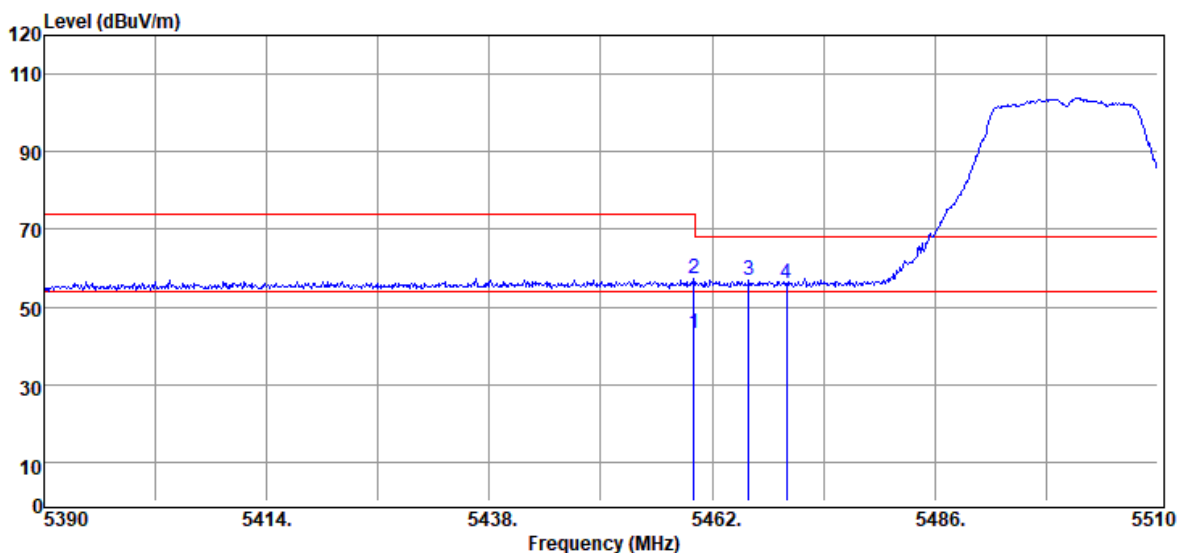
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 3
Test Channel :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	41.96	1.28	43.24	54.00	-10.76
5460.00	Peak	55.94	1.28	57.22	74.00	-16.78
5465.96	Peak	55.50	1.32	56.82	68.20	-11.38
5470.00	Peak	54.70	1.36	56.06	68.20	-12.14

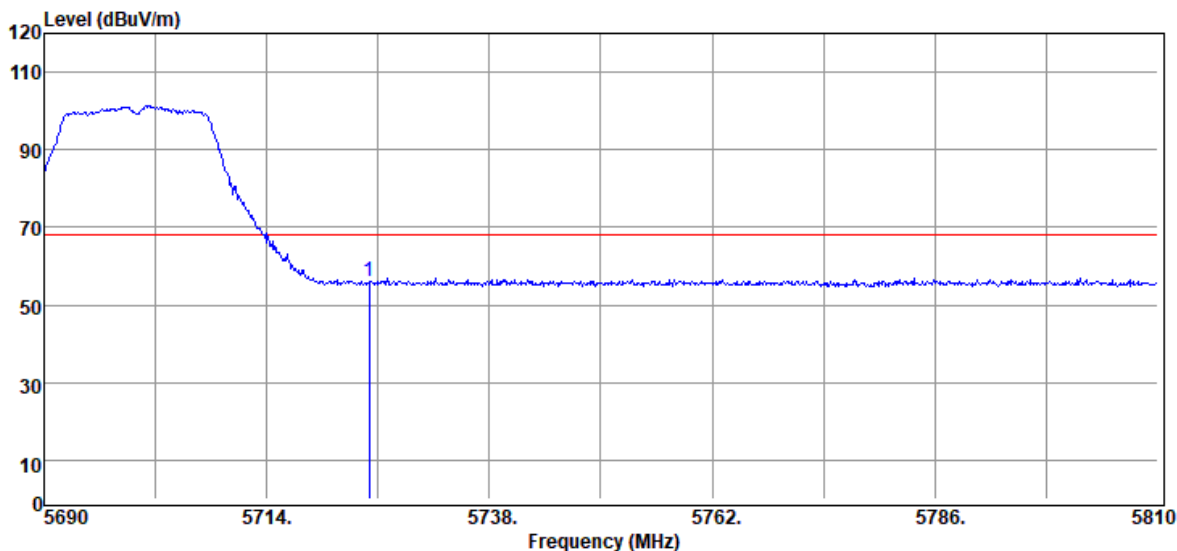
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 3
Test Channel :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	55.02	0.98	56.00	68.20	-12.20

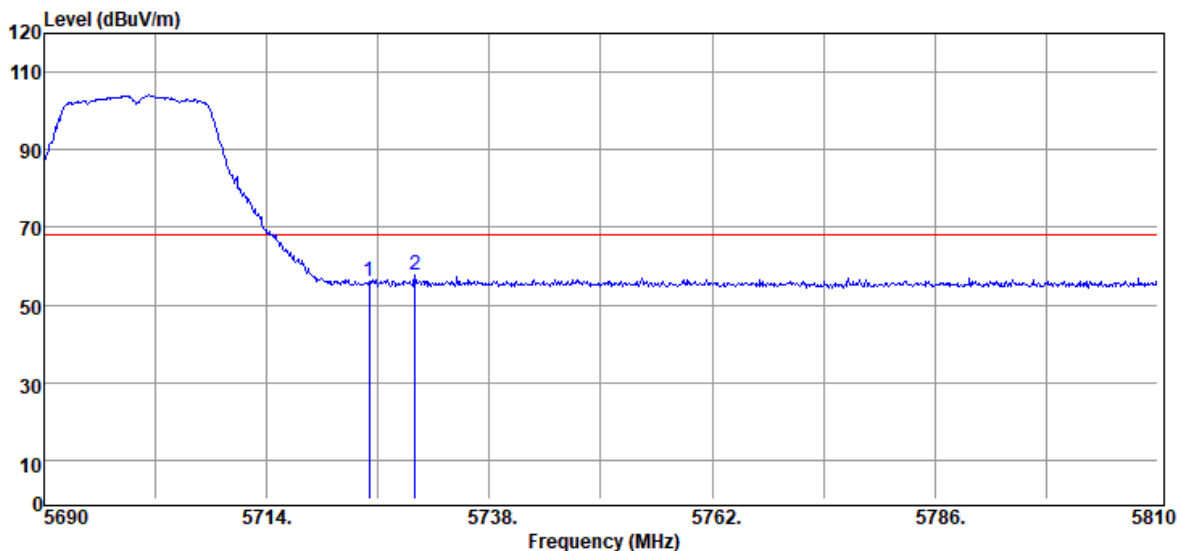
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 3
Test Channel :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	54.88	0.98	55.86	68.20	-12.34
5729.96	Peak	56.66	0.99	57.65	68.20	-10.55

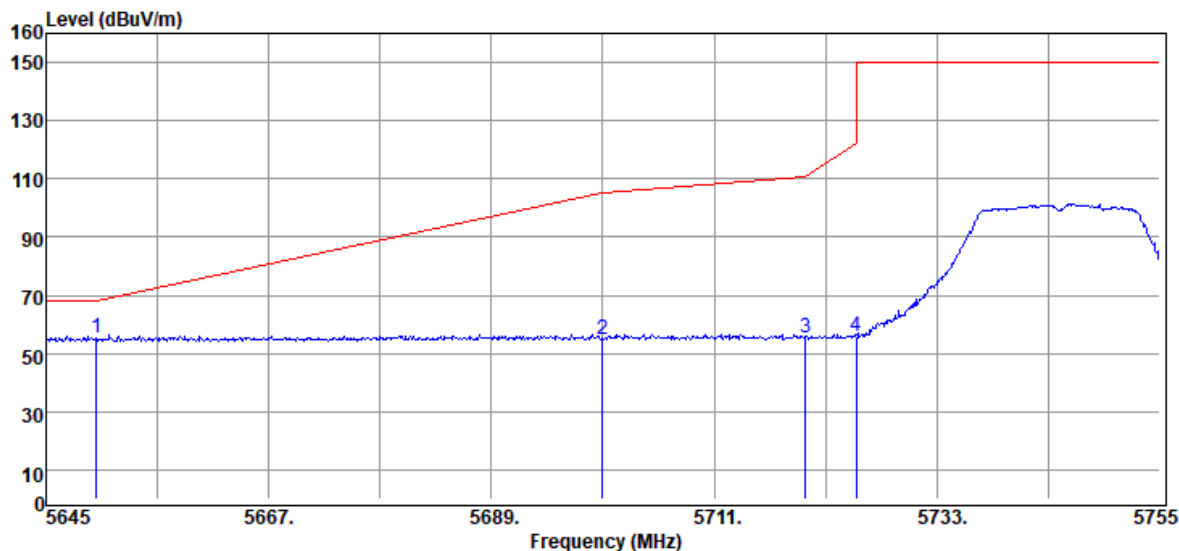
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	54.60	0.69	55.29	68.20	-12.91
5700.00	Peak	53.85	1.00	54.85	105.20	-50.35
5720.00	Peak	54.59	0.99	55.58	110.80	-55.22
5725.00	Peak	54.75	0.98	55.73	122.20	-66.47

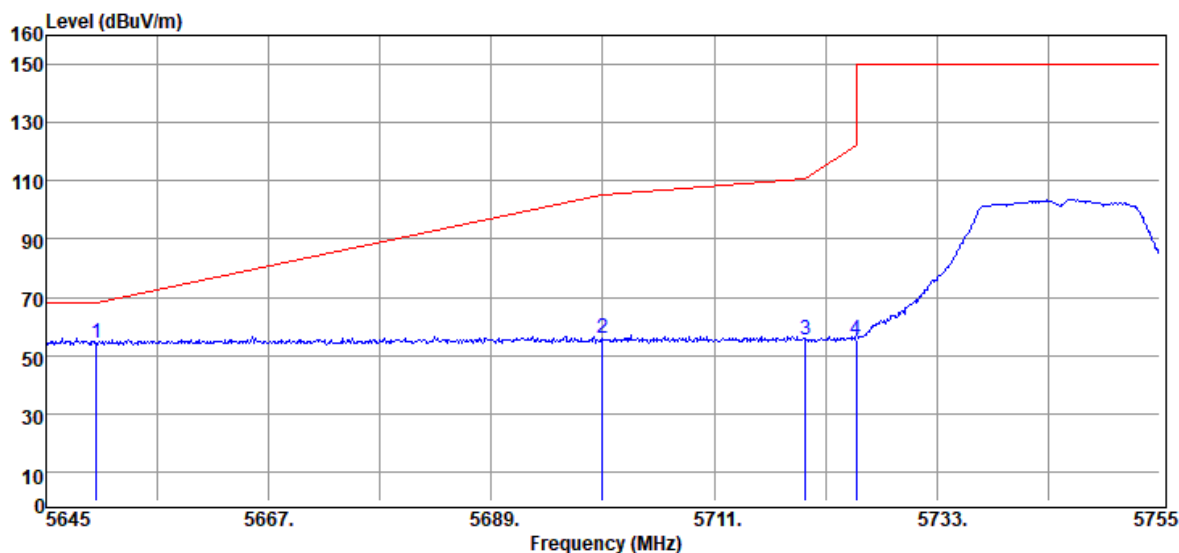
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Report Number :E2/2019/C0008
Operation Mode :802.11a / Band 4
Test Channel :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	53.37	0.69	54.06	68.20	-14.14
5700.00	Peak	54.86	1.00	55.86	105.20	-49.34
5720.00	Peak	54.41	0.99	55.40	110.80	-55.40
5725.00	Peak	54.46	0.98	55.44	122.20	-66.76

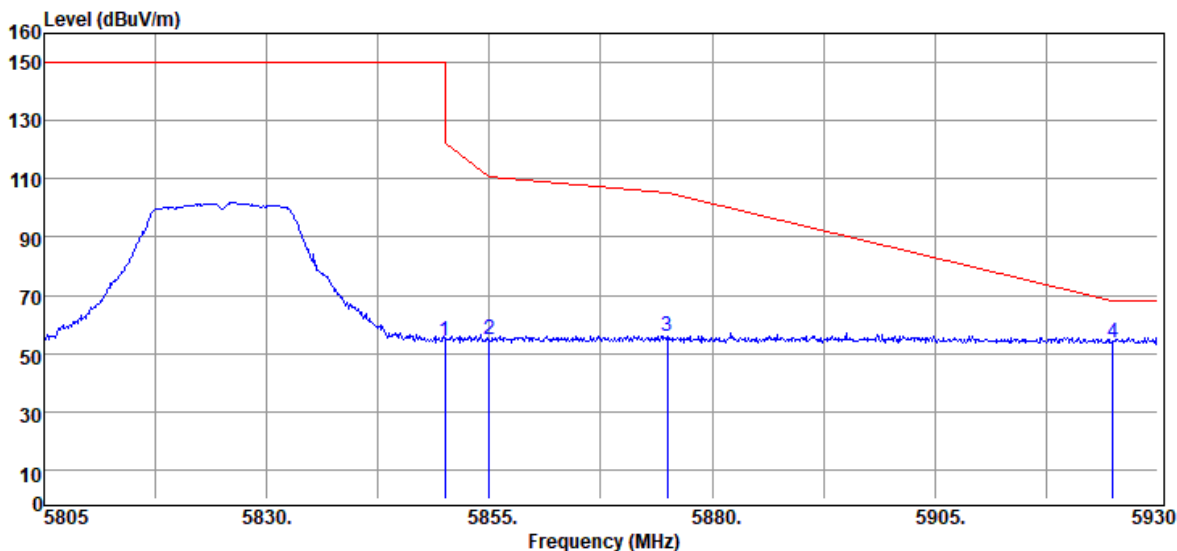
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	53.32	1.13	54.45	122.20	-67.75
5855.00	Peak	53.74	1.16	54.90	110.80	-55.90
5875.00	Peak	54.35	1.31	55.66	105.20	-49.54
5925.00	Peak	52.12	1.37	53.49	68.20	-14.71

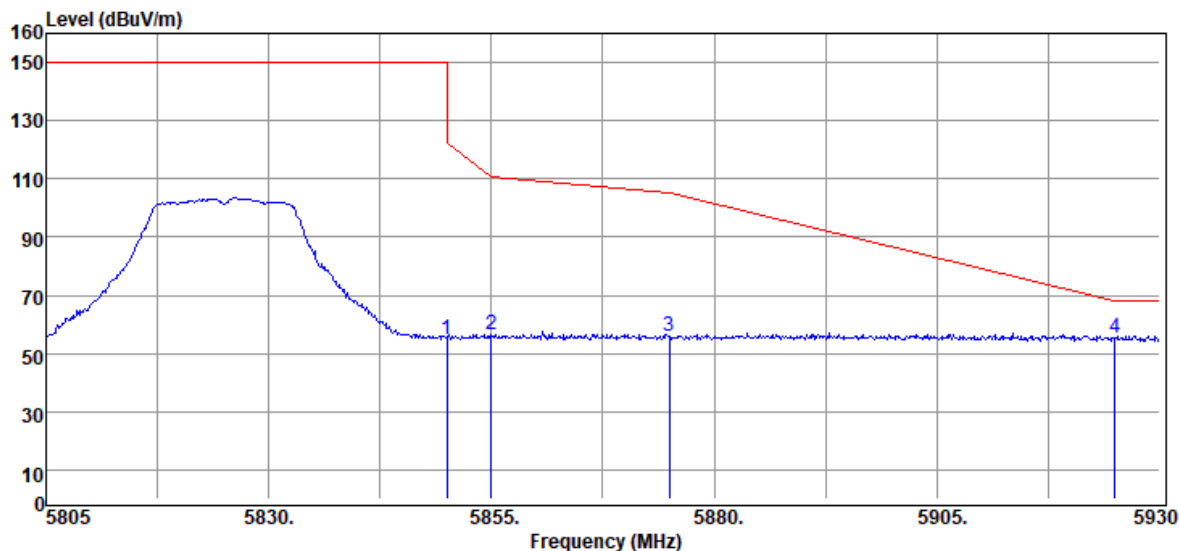
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Report Number :E2/2019/C0008
 Operation Mode :802.11a / Band 4
 Test Channel :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	53.95	1.13	55.08	122.20	-67.12
5855.00	Peak	55.05	1.16	56.21	110.80	-54.59
5875.00	Peak	54.72	1.31	56.03	105.20	-49.17
5925.00	Peak	54.23	1.37	55.60	68.20	-12.60

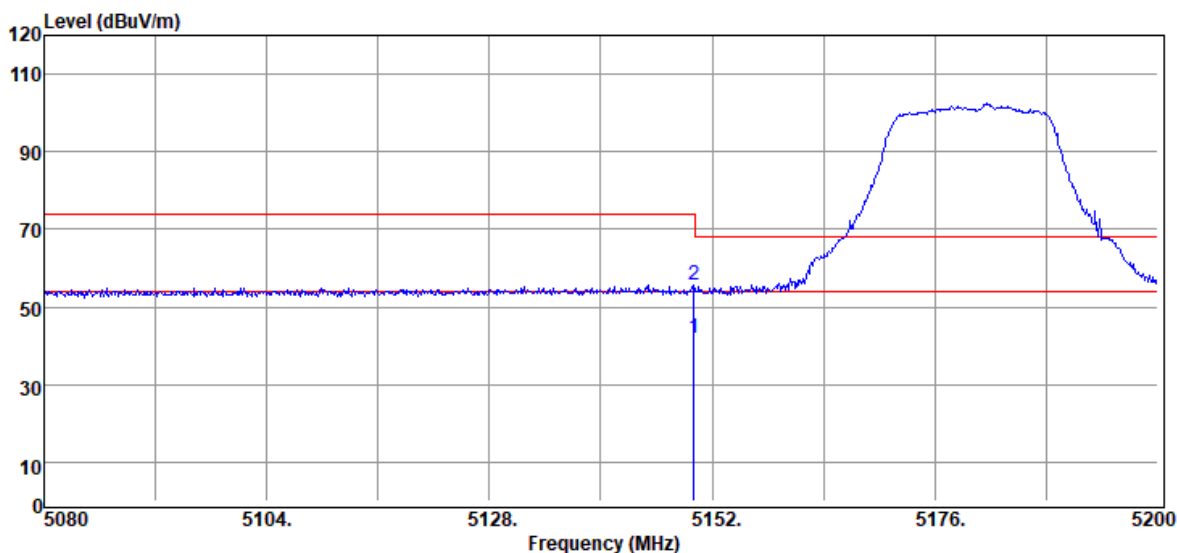
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 1
Test Channel :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	41.36	0.45	41.81	54.00	-12.19
5150.00	Peak	55.12	0.45	55.57	74.00	-18.43

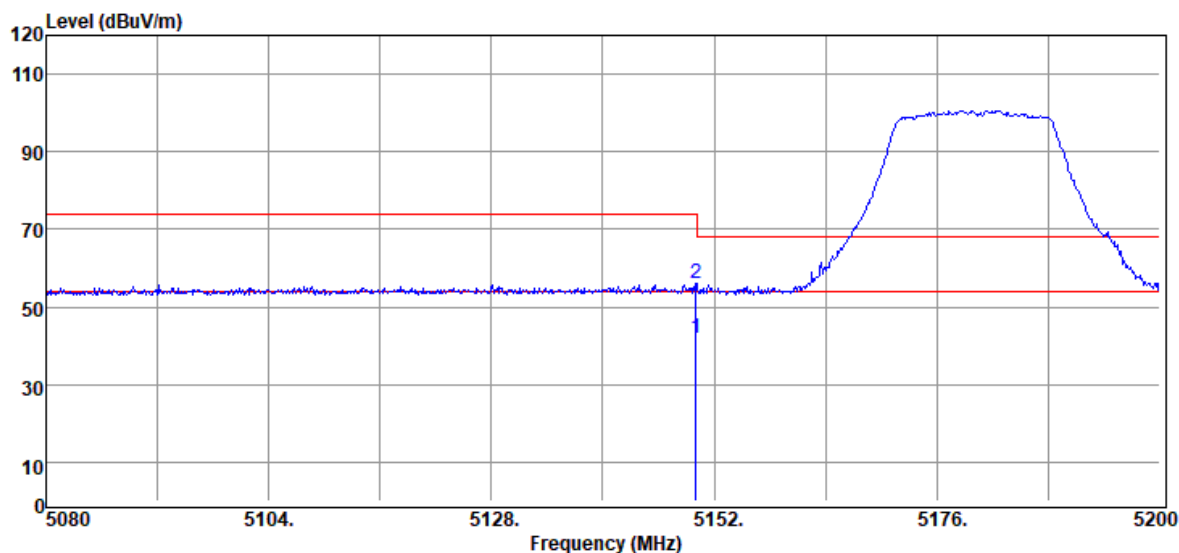
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 1
 Test Channel :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	41.64	0.45	42.09	54.00	-11.91
5150.00	Peak	55.80	0.45	56.25	74.00	-17.75

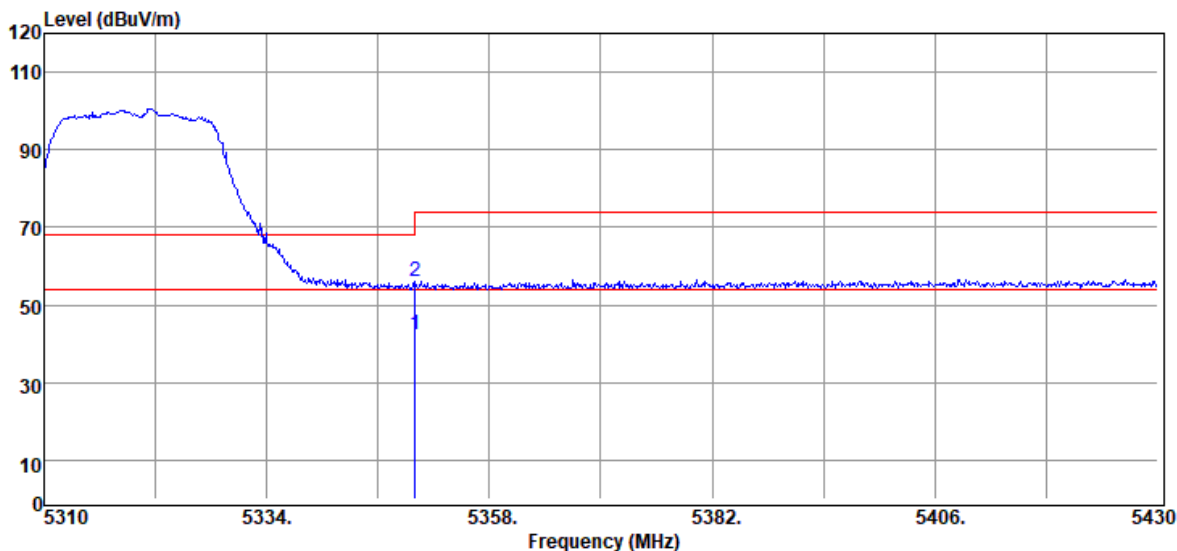
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 2
 Test Channel :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	42.04	0.17	42.21	54.00	-11.79
5350.00	Peak	55.91	0.17	56.08	74.00	-17.92

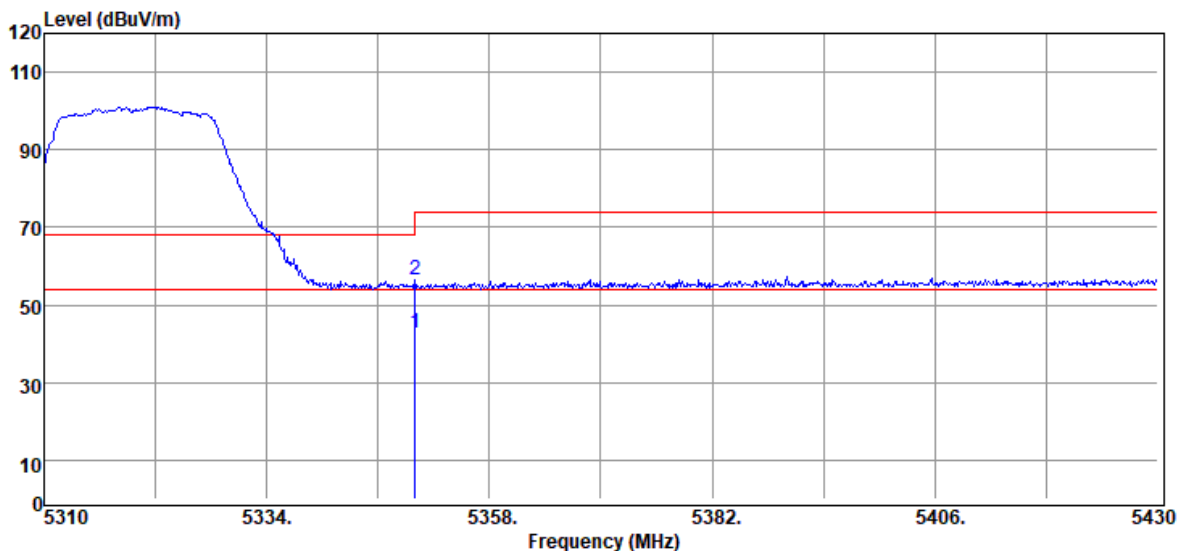
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 2
Test Channel :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	42.55	0.17	42.72	54.00	-11.28
5350.00	Peak	56.44	0.17	56.61	74.00	-17.39

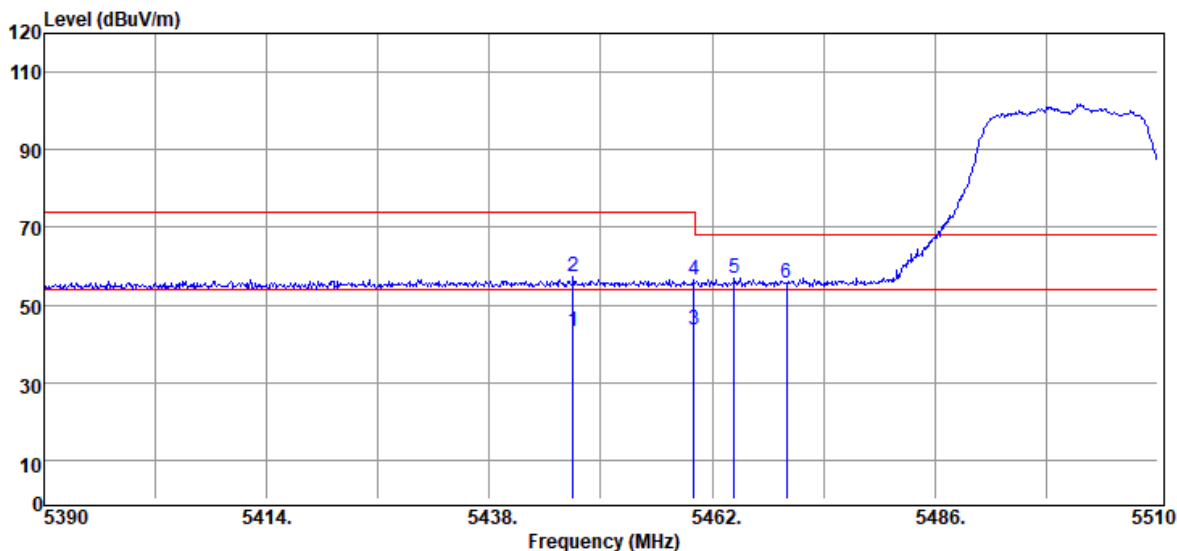
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5447.00	Average	42.18	1.19	43.37	54.00	-10.63
5447.00	Peak	56.12	1.19	57.31	74.00	-16.69
5460.00	Average	42.46	1.28	43.74	54.00	-10.26
5460.00	Peak	54.99	1.28	56.27	74.00	-17.73
5464.40	Peak	55.50	1.32	56.82	68.20	-11.38
5470.00	Peak	54.42	1.36	55.78	68.20	-12.42

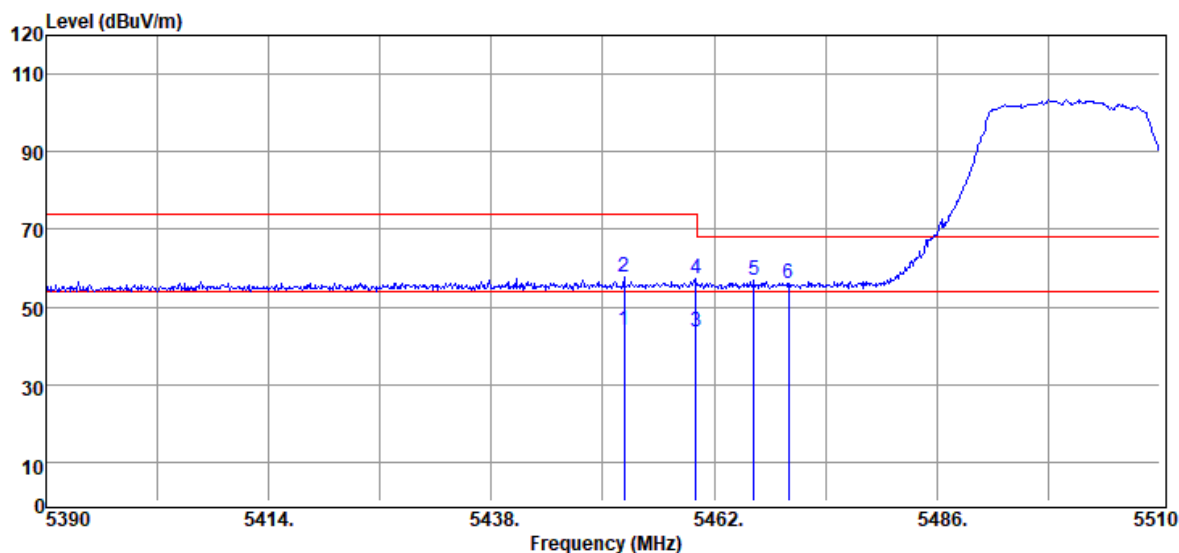
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5452.28	Average	42.84	1.23	44.07	54.00	-9.93
5452.28	Peak	56.39	1.23	57.62	74.00	-16.38
5460.00	Average	42.36	1.28	43.64	54.00	-10.36
5460.00	Peak	55.90	1.28	57.18	74.00	-16.82
5466.32	Peak	55.54	1.33	56.87	68.20	-11.33
5470.00	Peak	54.57	1.36	55.93	68.20	-12.27

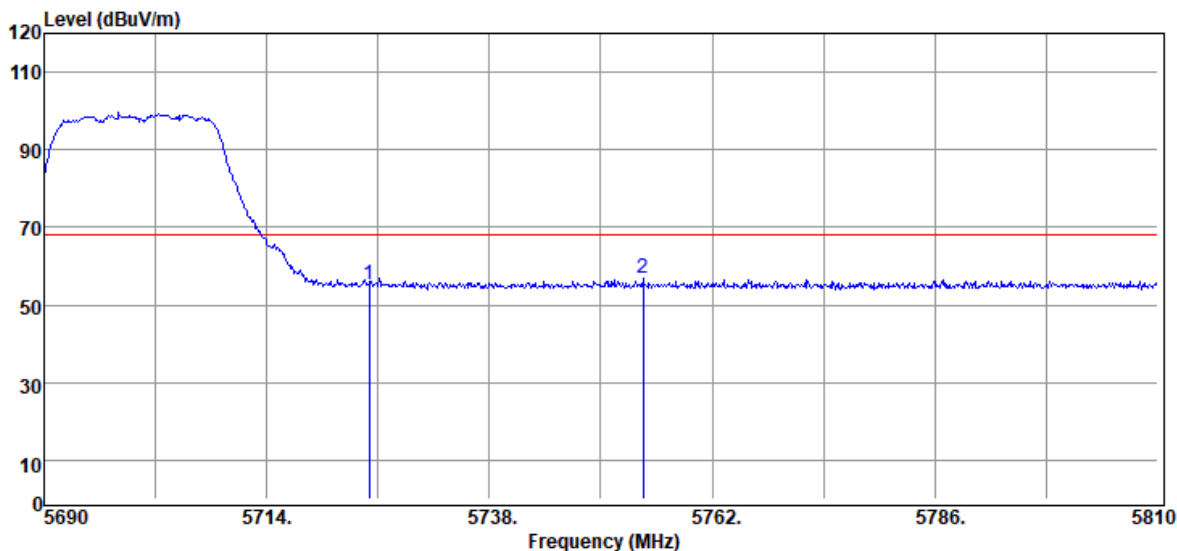
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 3
Test Channel :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	54.31	0.98	55.29	68.20	-12.91
5754.56	Peak	55.85	0.96	56.81	68.20	-11.39

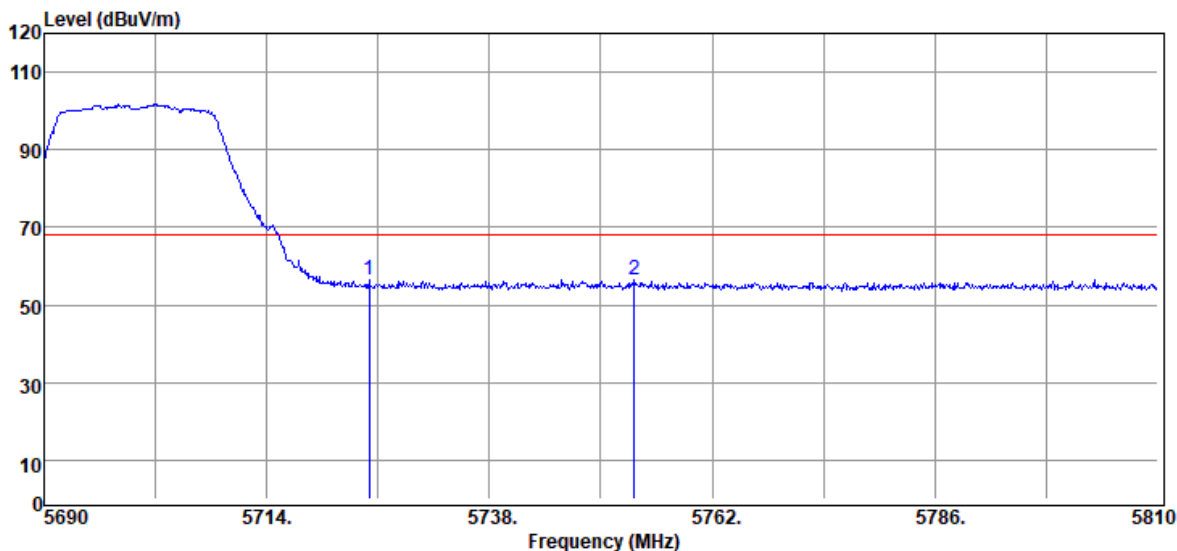
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 3
 Test Channel :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	55.41	0.98	56.39	68.20	-11.81
5753.60	Peak	55.70	0.97	56.67	68.20	-11.53

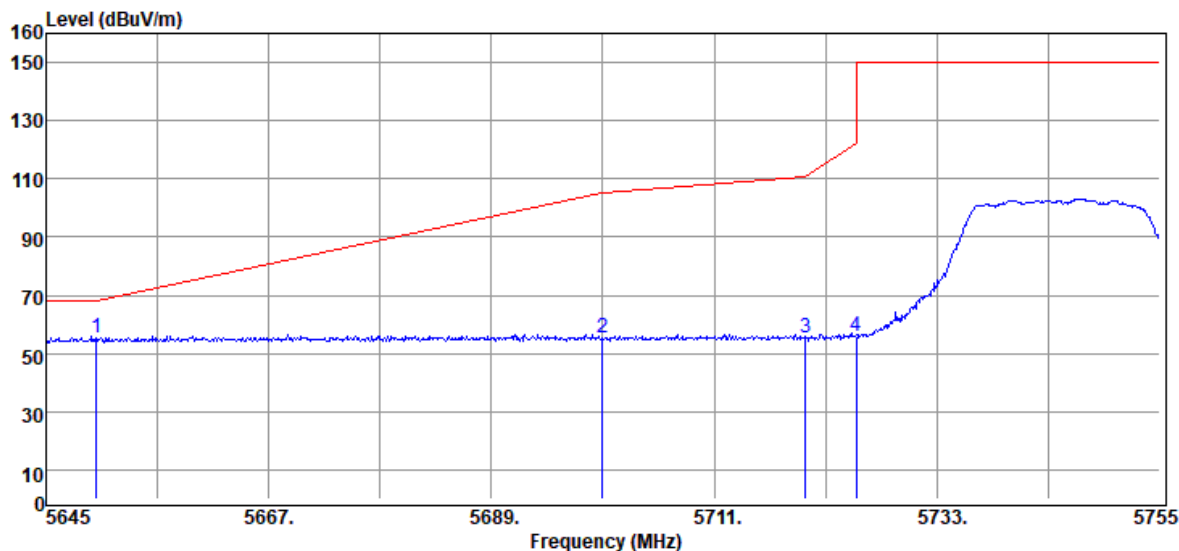
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 4
Test Channel :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	54.55	0.69	55.24	68.20	-12.96
5700.00	Peak	54.30	1.00	55.30	105.20	-49.90
5720.00	Peak	54.34	0.99	55.33	110.80	-55.47
5725.00	Peak	54.83	0.98	55.81	122.20	-66.39

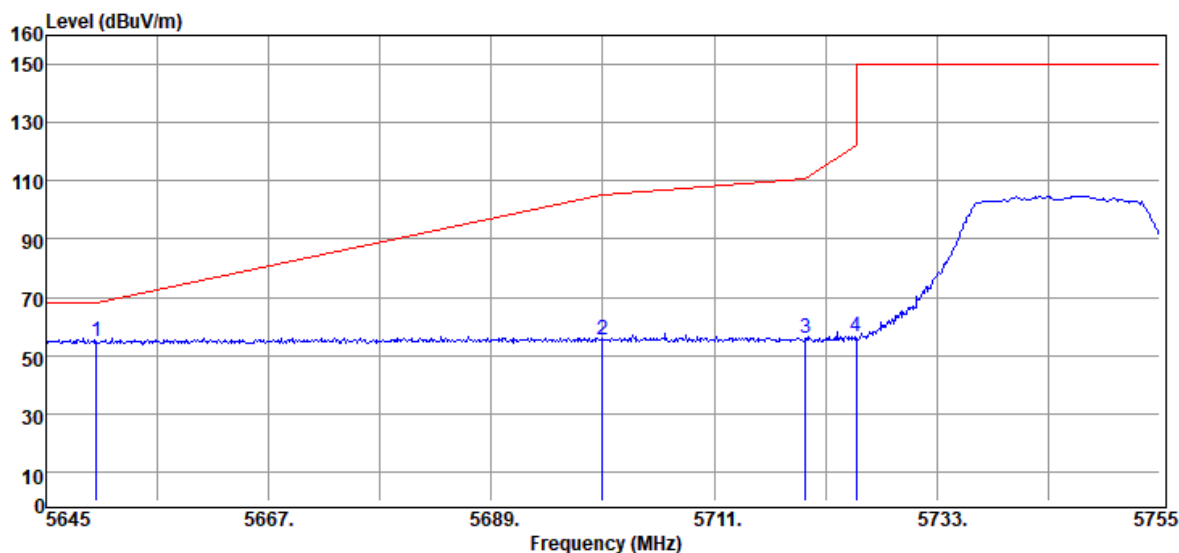
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	53.92	0.69	54.61	68.20	-13.59
5700.00	Peak	54.16	1.00	55.16	105.20	-50.04
5720.00	Peak	55.05	0.99	56.04	110.80	-54.76
5725.00	Peak	55.68	0.98	56.66	122.20	-65.54

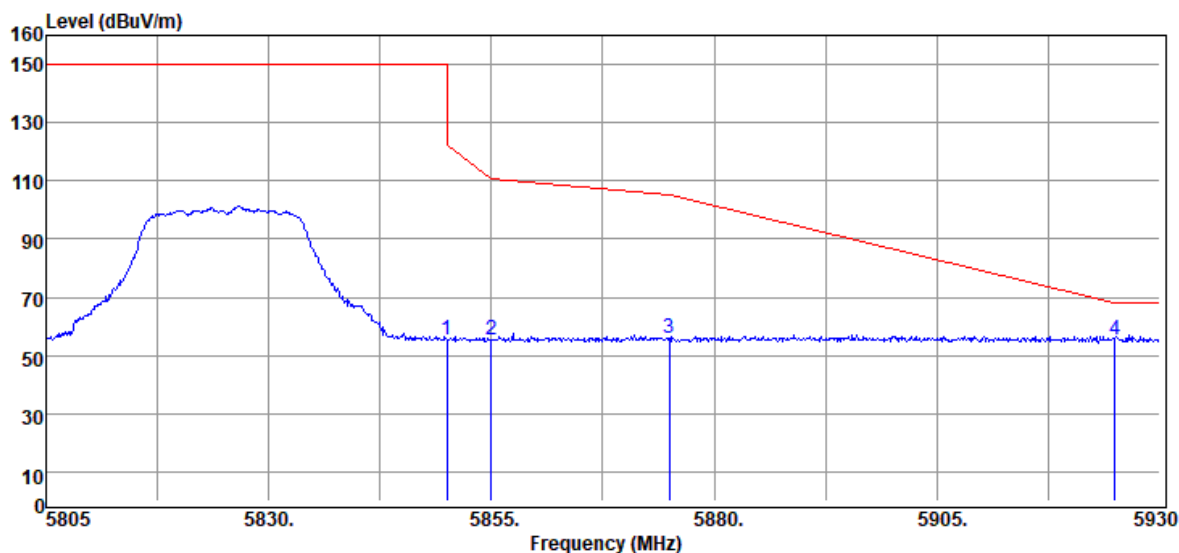
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Report Number :E2/2019/C0008
 Operation Mode :802.11n20 / Band 4
 Test Channel :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.4/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	54.04	1.13	55.17	122.20	-67.03
5855.00	Peak	54.23	1.16	55.39	110.80	-55.41
5875.00	Peak	54.64	1.31	55.95	105.20	-49.25
5925.00	Peak	54.11	1.37	55.48	68.20	-12.72

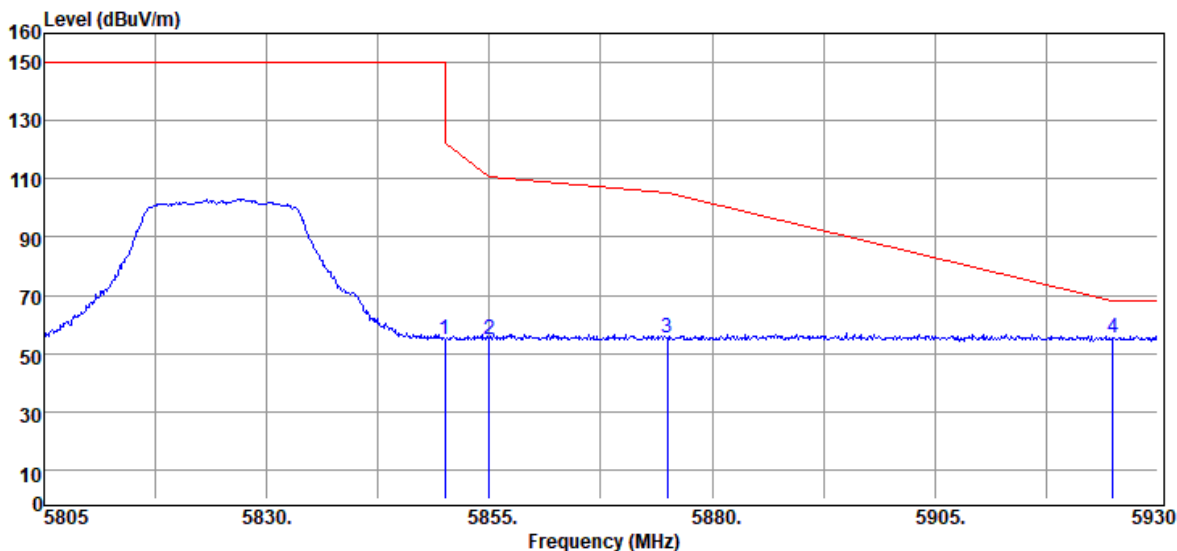
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Report Number :E2/2019/C0008
Operation Mode :802.11n20 / Band 4
Test Channel :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.4/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	53.94	1.13	55.07	122.20	-67.13
5855.00	Peak	53.50	1.16	54.66	110.80	-56.14
5875.00	Peak	54.10	1.31	55.41	105.20	-49.79
5925.00	Peak	53.73	1.37	55.10	68.20	-13.10

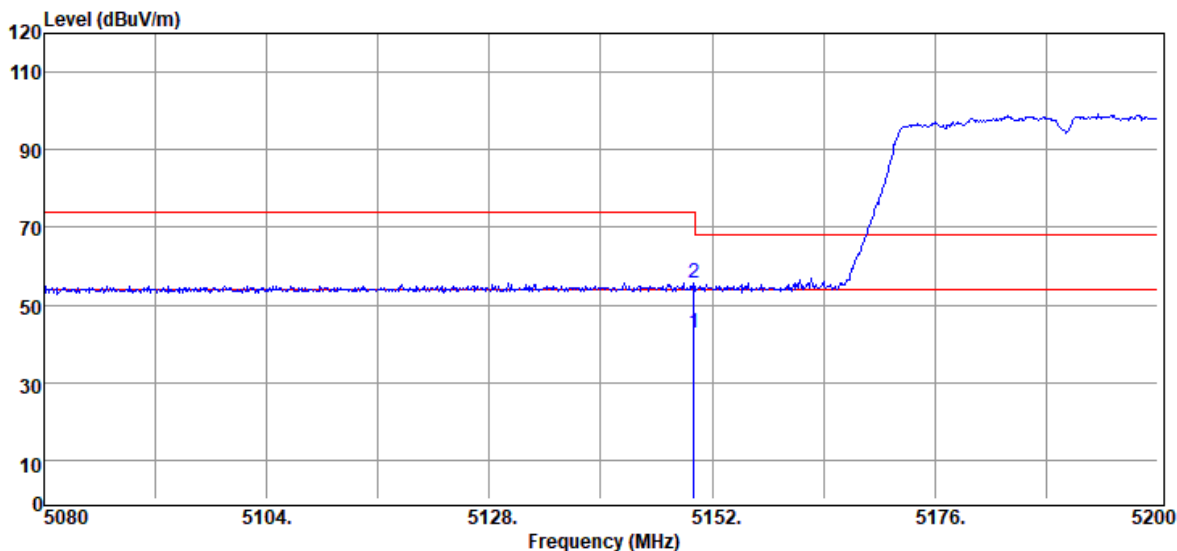
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 1
 Test Channel :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	42.32	0.45	42.77	54.00	-11.23
5150.00	Peak	55.04	0.45	55.49	74.00	-18.51

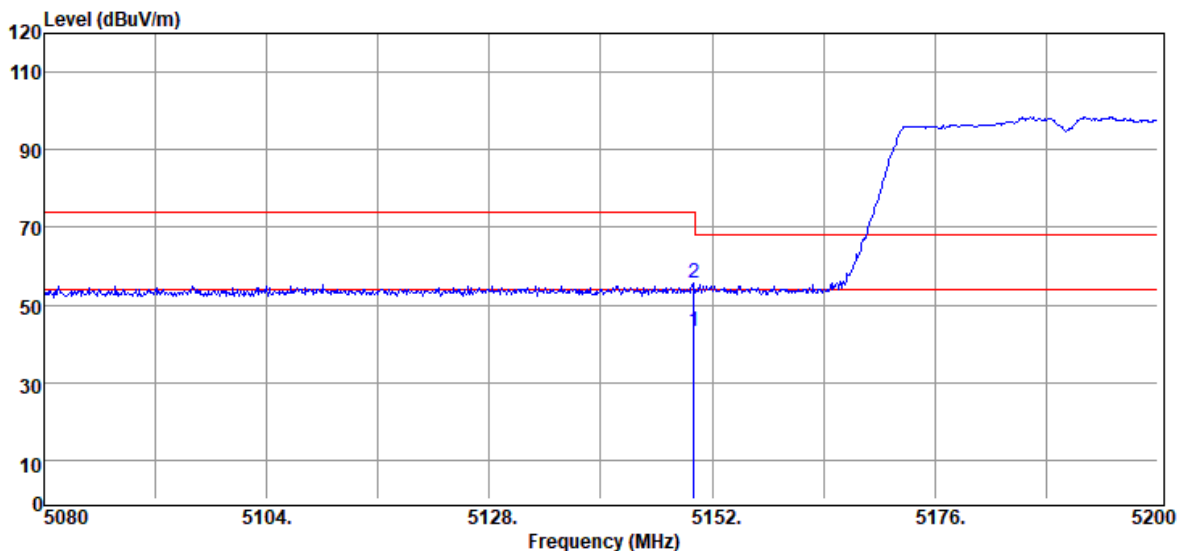
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 1
 Test Channel :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	42.74	0.45	43.19	54.00	-10.81
5150.00	Peak	55.09	0.45	55.54	74.00	-18.46

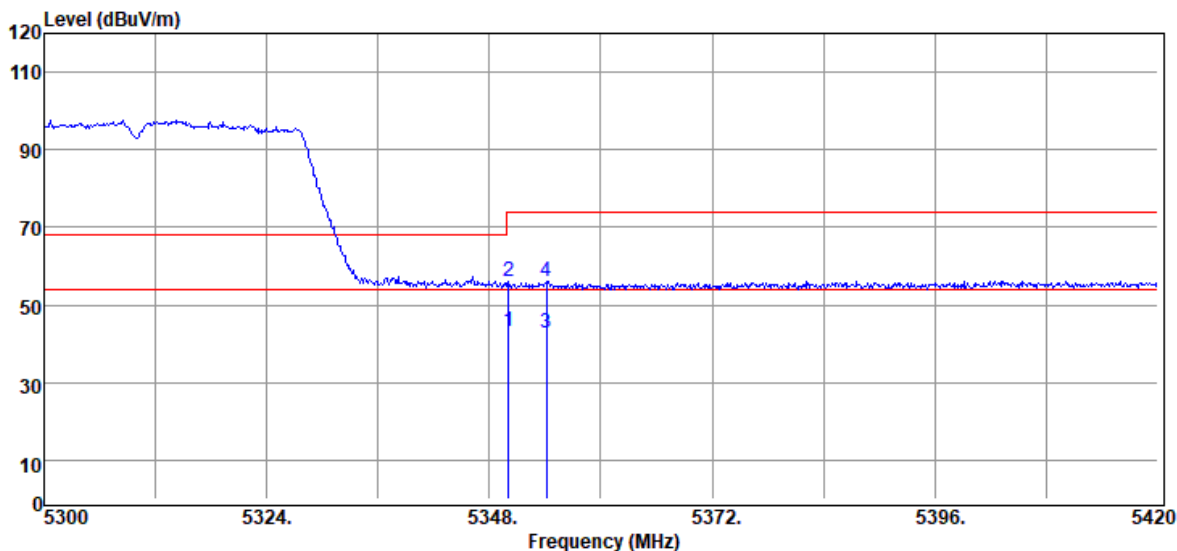
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 2
 Test Channel :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	42.81	0.17	42.98	54.00	-11.02
5350.00	Peak	56.02	0.17	56.19	74.00	-17.81
5354.12	Average	42.70	0.21	42.91	54.00	-11.09
5354.12	Peak	56.01	0.21	56.22	74.00	-17.78

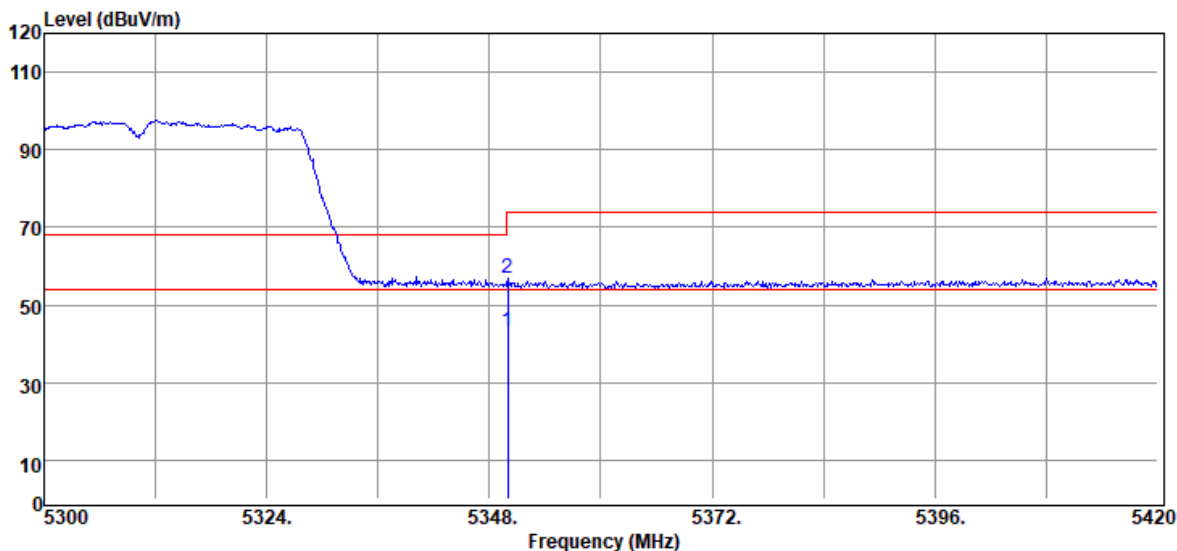
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 2
 Test Channel :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	42.84	0.17	43.01	54.00	-10.99
5350.00	Peak	56.76	0.17	56.93	74.00	-17.07

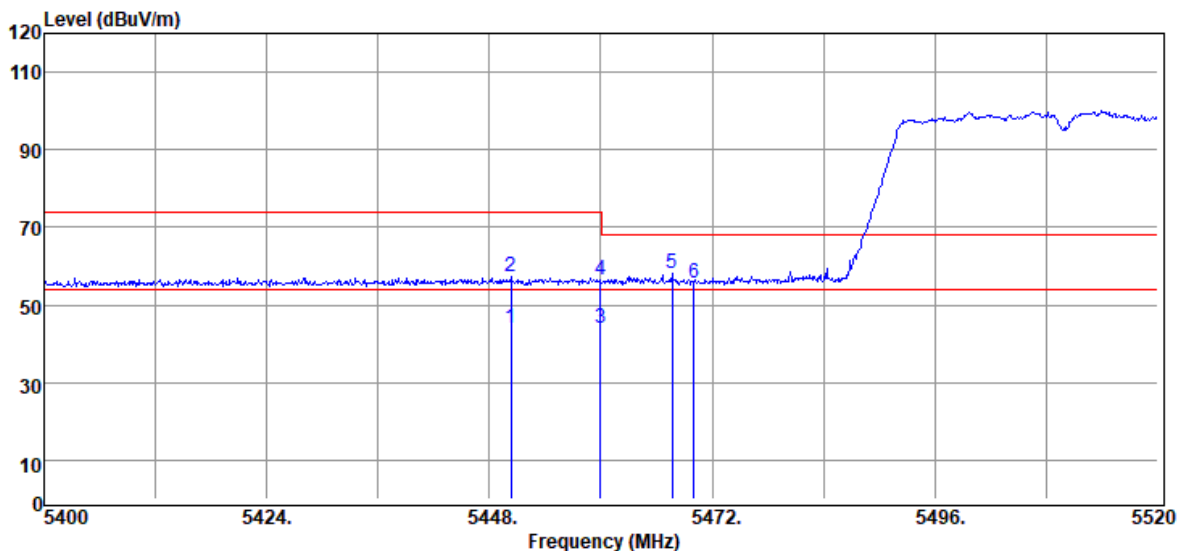
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5450.28	Average	42.95	1.22	44.17	54.00	-9.83
5450.28	Peak	55.95	1.22	57.17	74.00	-16.83
5460.00	Average	42.66	1.28	43.94	54.00	-10.06
5460.00	Peak	55.04	1.28	56.32	74.00	-17.68
5467.68	Peak	56.69	1.34	58.03	68.20	-10.17
5470.00	Peak	54.26	1.36	55.62	68.20	-12.58

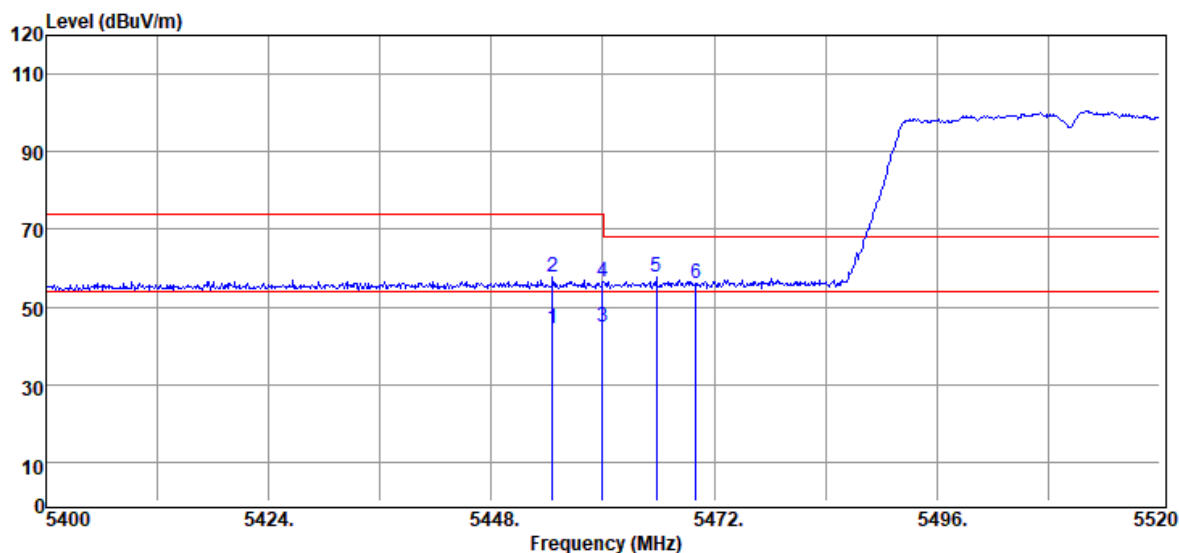
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Report Number :E2/2019/C0008
Operation Mode :802.11n40 / Band 3
Test Channel :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5454.60	Average	43.26	1.25	44.51	54.00	-9.49
5454.60	Peak	56.56	1.25	57.81	74.00	-16.19
5460.00	Average	43.56	1.28	44.84	54.00	-9.16
5460.00	Peak	55.21	1.28	56.49	74.00	-17.51
5465.76	Peak	56.55	1.32	57.87	68.20	-10.33
5470.00	Peak	54.63	1.36	55.99	68.20	-12.21

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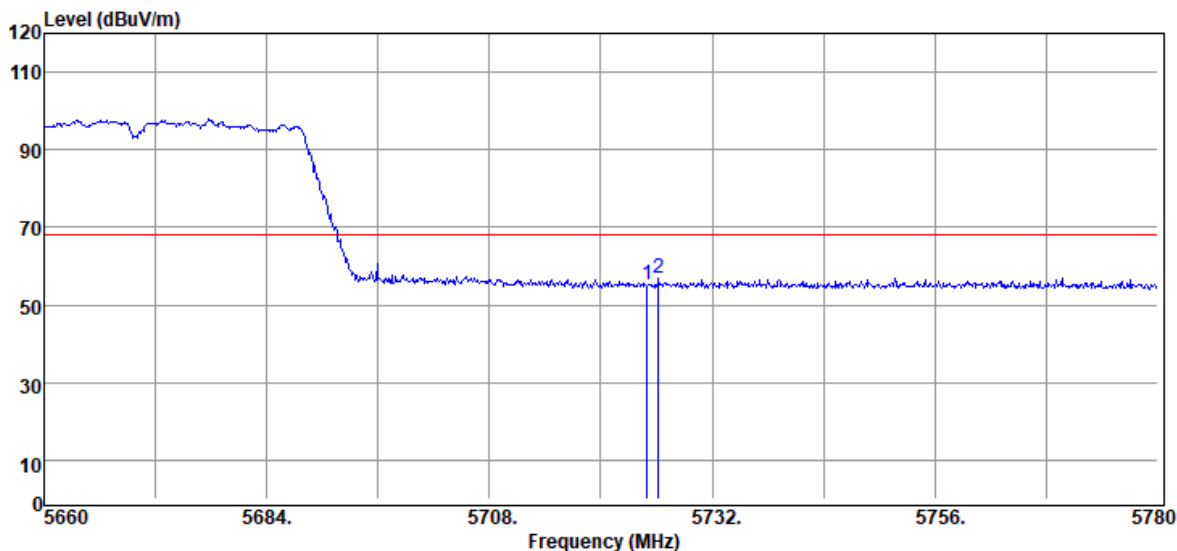
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	54.33	0.98	55.31	68.20	-12.89
5726.24	Peak	55.92	0.98	56.90	68.20	-11.30

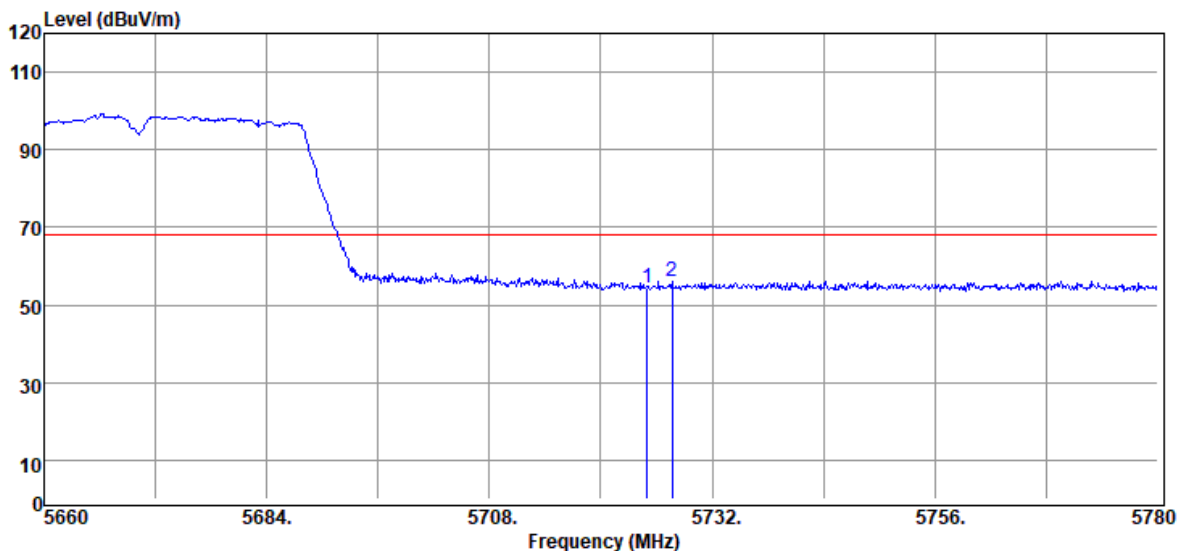
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 3
 Test Channel :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	53.32	0.98	54.30	68.20	-13.90
5727.68	Peak	54.97	0.98	55.95	68.20	-12.25

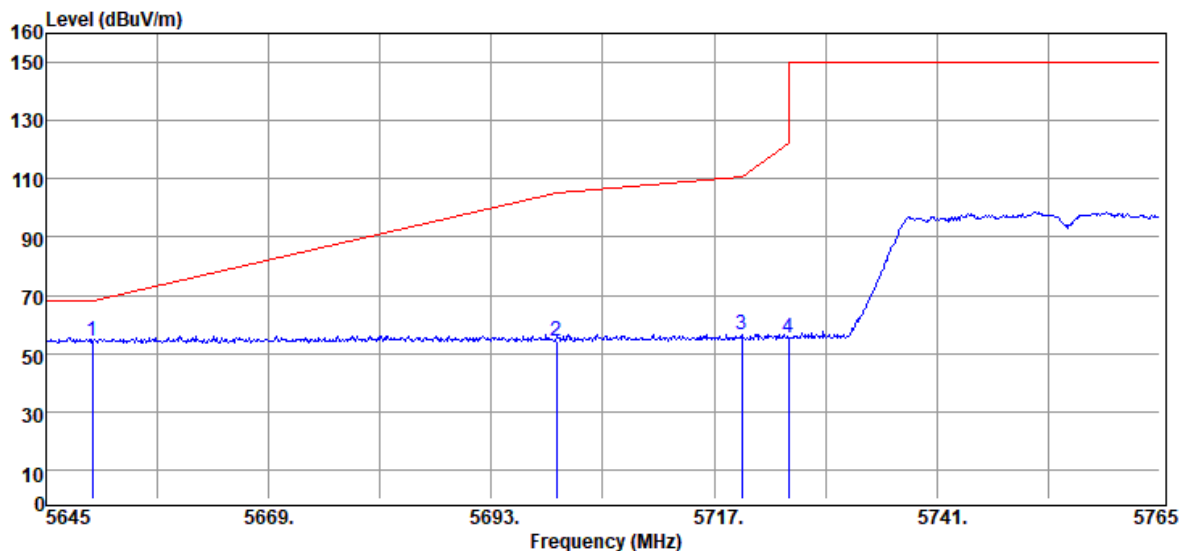
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Report Number :E2/2019/C0008
Operation Mode :802.11n40 / Band 4
Test Channel :5755 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.59	0.69	54.28	68.20	-13.92
5700.00	Peak	53.46	1.00	54.46	105.20	-50.74
5720.00	Peak	55.55	0.99	56.54	110.80	-54.26
5725.00	Peak	54.15	0.98	55.13	122.20	-67.07

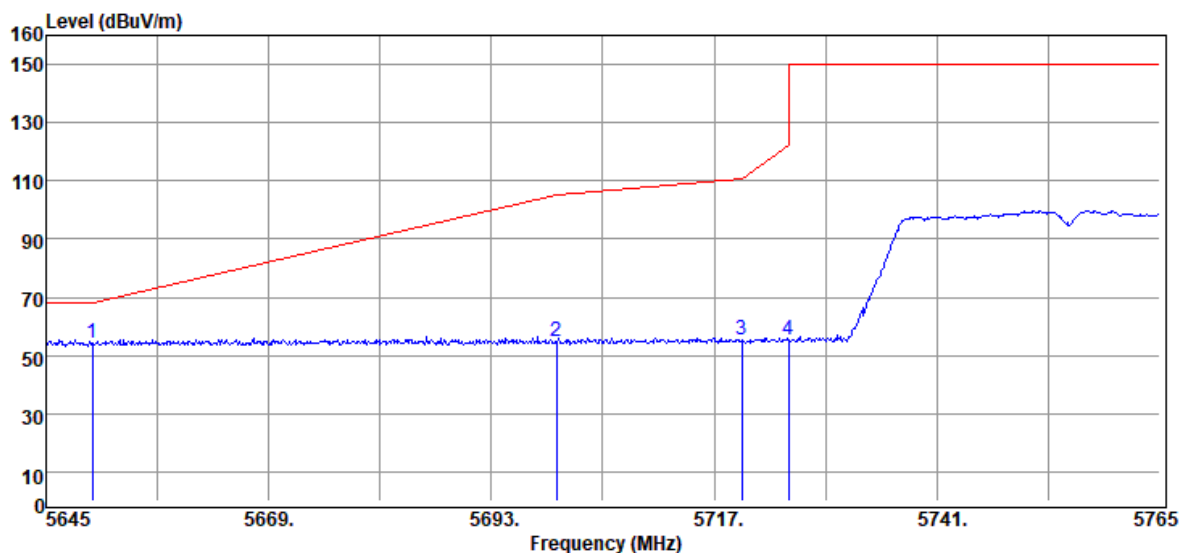
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Report Number :E2/2019/C0008
 Operation Mode :802.11n40 / Band 4
 Test Channel :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	53.40	0.69	54.09	68.20	-14.11
5700.00	Peak	54.00	1.00	55.00	105.20	-50.20
5720.00	Peak	54.43	0.99	55.42	110.80	-55.38
5725.00	Peak	54.42	0.98	55.40	122.20	-66.80

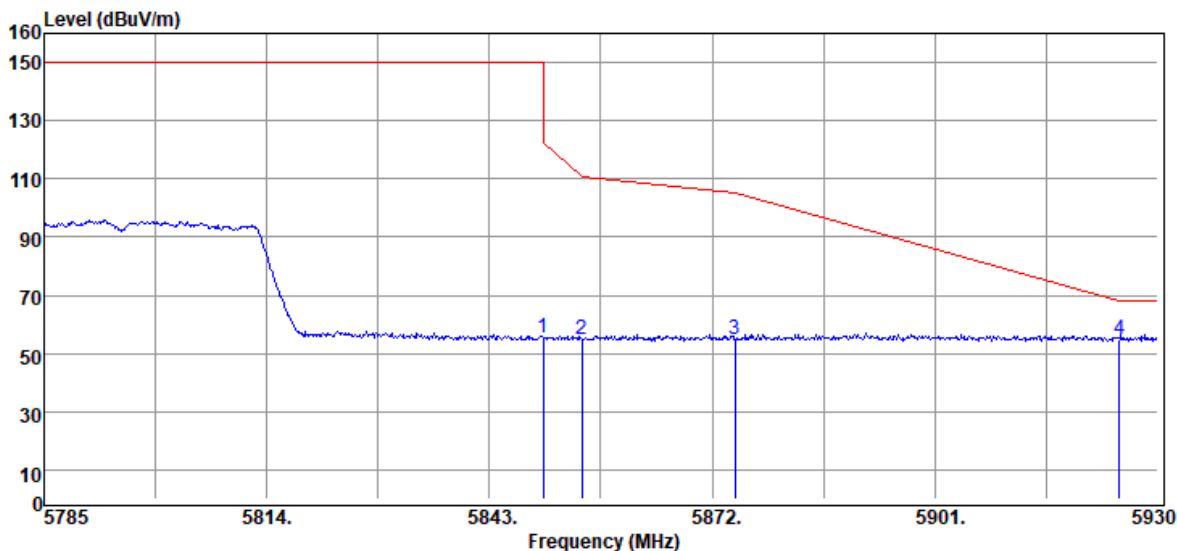
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Report Number :E2/2019/C0008
Operation Mode :802.11n40 / Band 4
Test Channel :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	53.96	1.13	55.09	122.20	-67.11
5855.00	Peak	53.59	1.16	54.75	110.80	-56.05
5875.00	Peak	53.65	1.31	54.96	105.20	-50.24
5925.00	Peak	53.40	1.37	54.77	68.20	-13.43

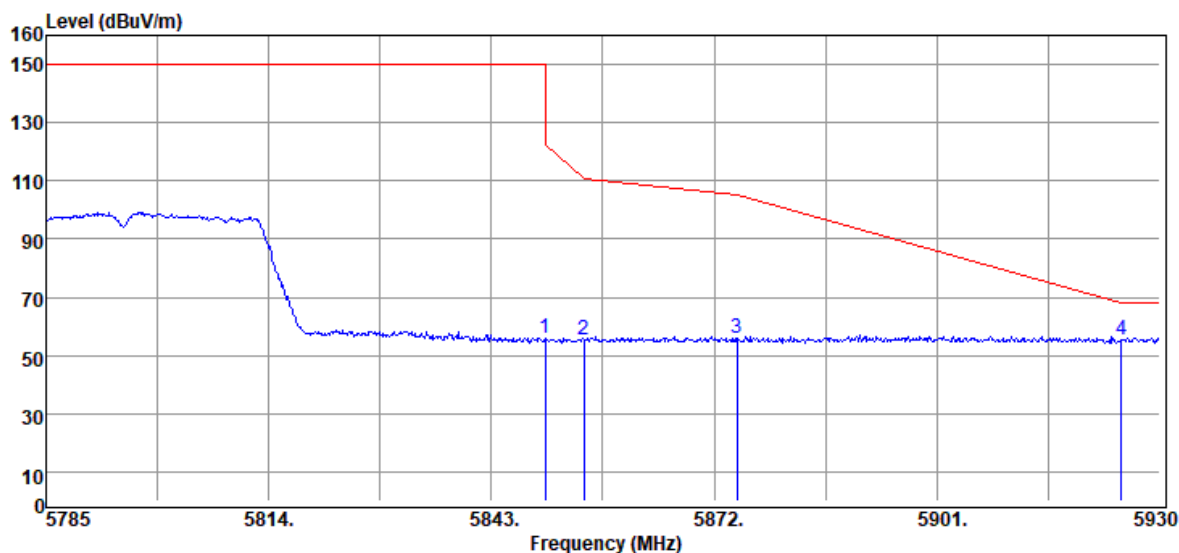
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Report Number :E2/2019/C0008
Operation Mode :802.11n40 / Band 4
Test Channel :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	54.79	1.13	55.92	122.20	-66.28
5855.00	Peak	54.39	1.16	55.55	110.80	-55.25
5875.00	Peak	54.82	1.31	56.13	105.20	-49.07
5925.00	Peak	53.91	1.37	55.28	68.20	-12.92

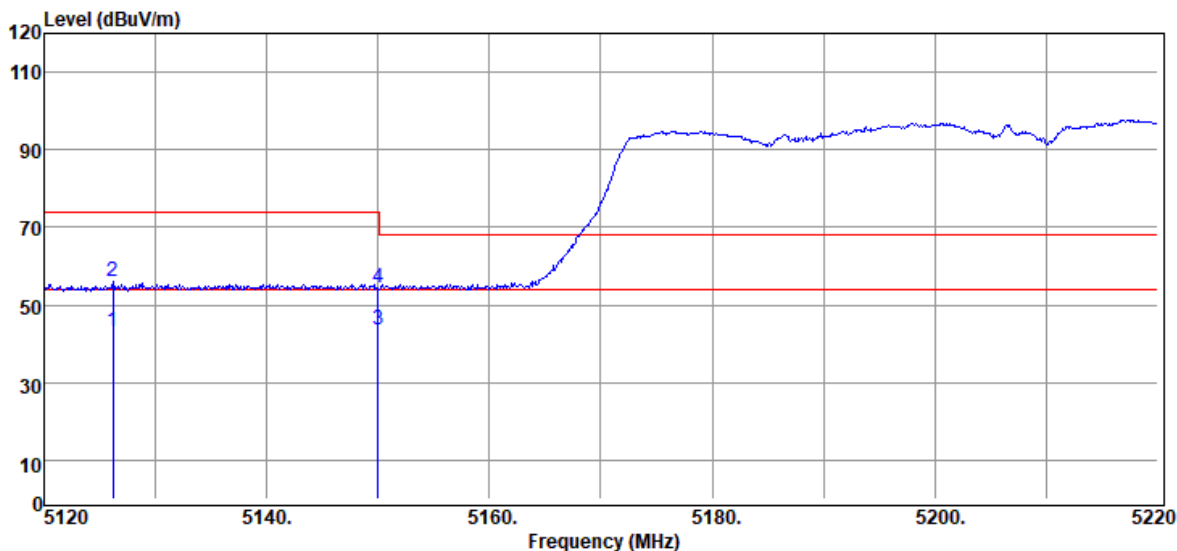
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 1
 Test Channel :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5126.20	Average	42.78	0.32	43.10	54.00	-10.90
5126.20	Peak	55.69	0.32	56.01	74.00	-17.99
5150.00	Average	43.15	0.45	43.60	54.00	-10.40
5150.00	Peak	53.85	0.45	54.30	74.00	-19.70

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Report Number :E2/2019/C0008

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :BE CH LOW

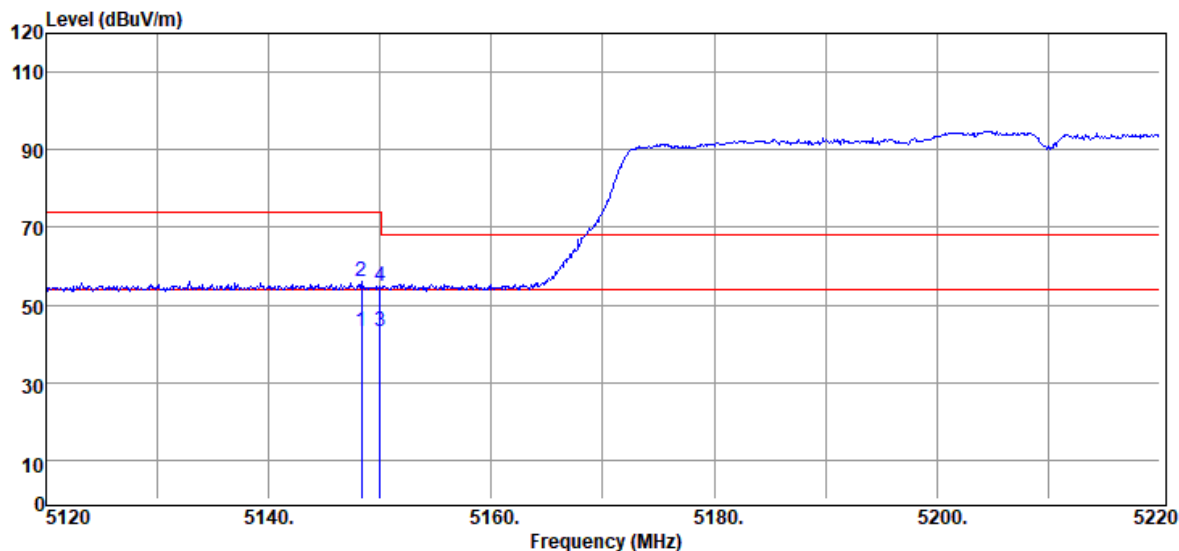
EUT Pol :E2 Plan

Test Date :2019-12-20

Temp./Humi. :20.5/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.30	Average	42.71	0.44	43.15	54.00	-10.85
5148.30	Peak	55.61	0.44	56.05	74.00	-17.95
5150.00	Average	42.92	0.45	43.37	54.00	-10.63
5150.00	Peak	54.29	0.45	54.74	74.00	-19.26

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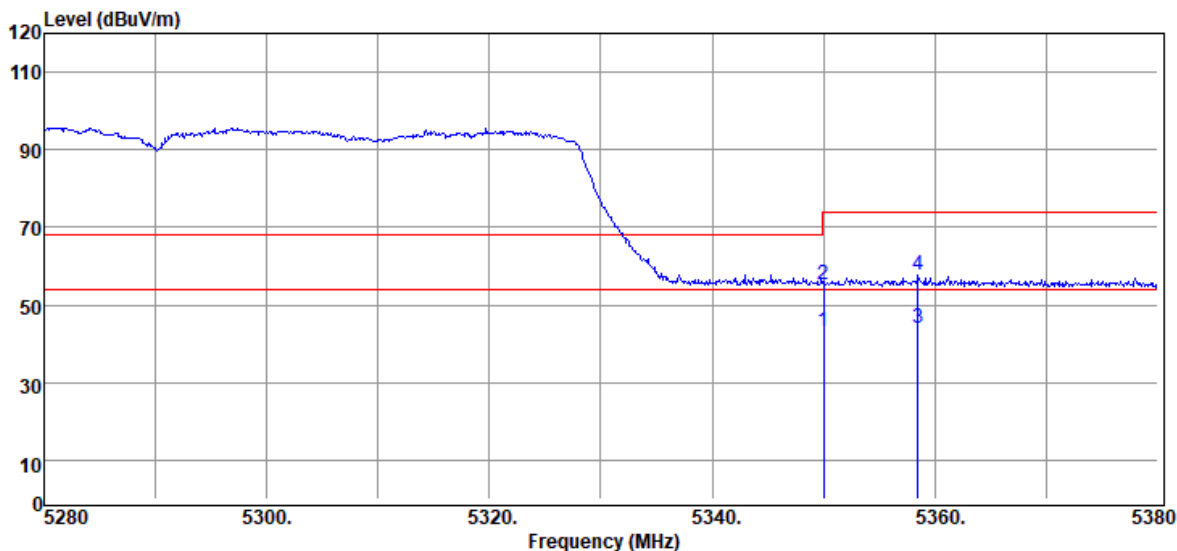
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 2
 Test Channel :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	43.11	0.17	43.28	54.00	-10.72
5350.00	Peak	55.25	0.17	55.42	74.00	-18.58
5358.50	Average	43.78	0.27	44.05	54.00	-9.95
5358.50	Peak	57.32	0.27	57.59	74.00	-16.41

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Report Number :E2/2019/C0008

Test Date :2019-12-20

Operation Mode :802.11ac80 / Band 2

Temp./Humi. :20.5/63

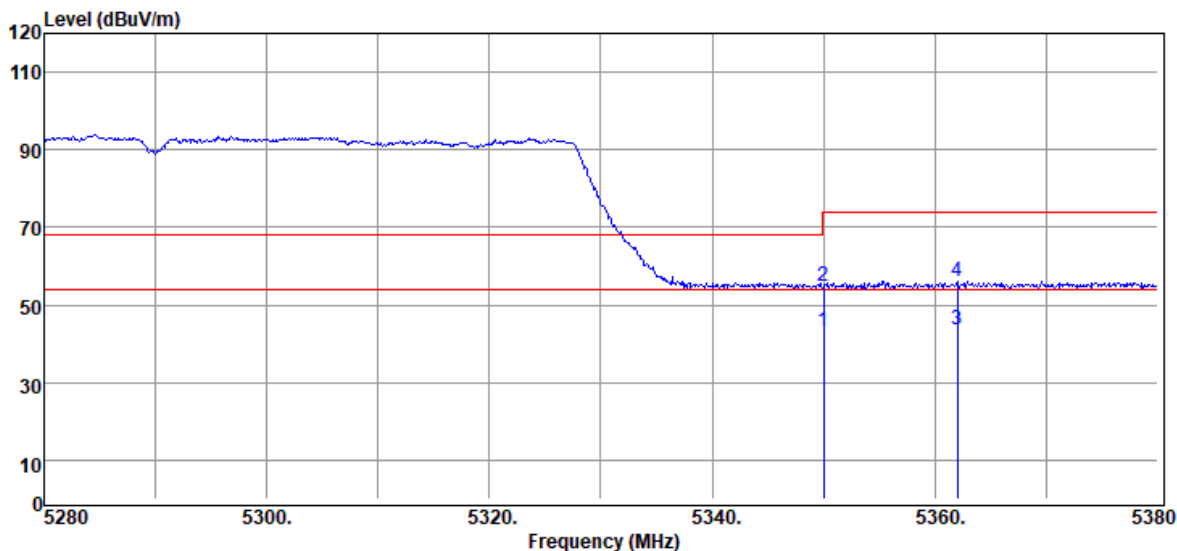
Test Channel :5290 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	42.89	0.17	43.06	54.00	-10.94
5350.00	Peak	54.61	0.17	54.78	74.00	-19.22
5362.00	Average	43.23	0.31	43.54	54.00	-10.46
5362.00	Peak	55.95	0.31	56.26	74.00	-17.74

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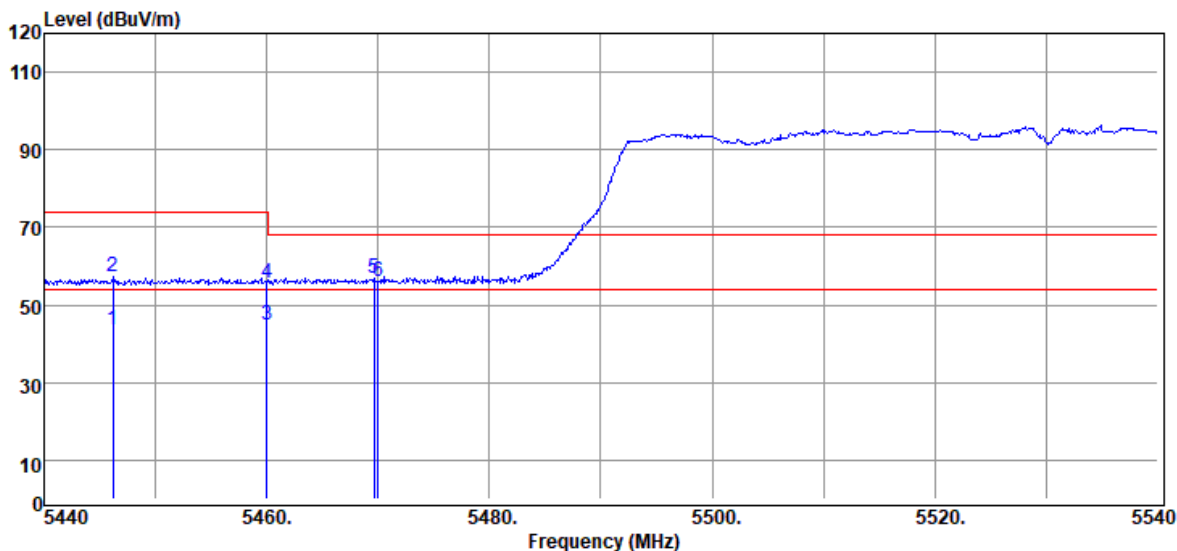
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 3
 Test Channel :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.20	Average	42.58	1.18	43.76	54.00	-10.24
5446.20	Peak	55.92	1.18	57.10	74.00	-16.90
5460.00	Average	43.56	1.28	44.84	54.00	-9.16
5460.00	Peak	54.34	1.28	55.62	74.00	-18.38
5469.60	Peak	55.49	1.35	56.84	68.20	-11.36
5470.00	Peak	54.88	1.36	56.24	68.20	-11.96

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Report Number :E2/2019/C0008

Test Date :2019-12-20

Operation Mode :802.11ac80 / Band 3

Temp./Humi. :20.5/63

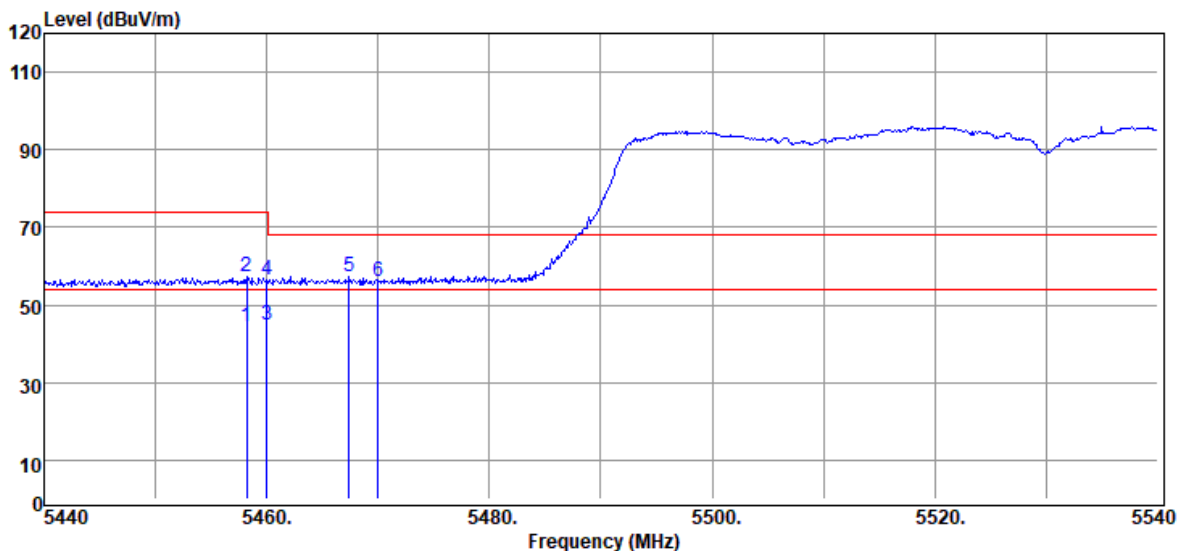
Test Channel :5530 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5458.20	Average	43.10	1.28	44.38	54.00	-9.62
5458.20	Peak	55.91	1.28	57.19	74.00	-16.81
5460.00	Average	43.52	1.28	44.80	54.00	-9.20
5460.00	Peak	55.11	1.28	56.39	74.00	-17.61
5467.40	Peak	56.00	1.33	57.33	68.20	-10.87
5470.00	Peak	54.80	1.36	56.16	68.20	-12.04

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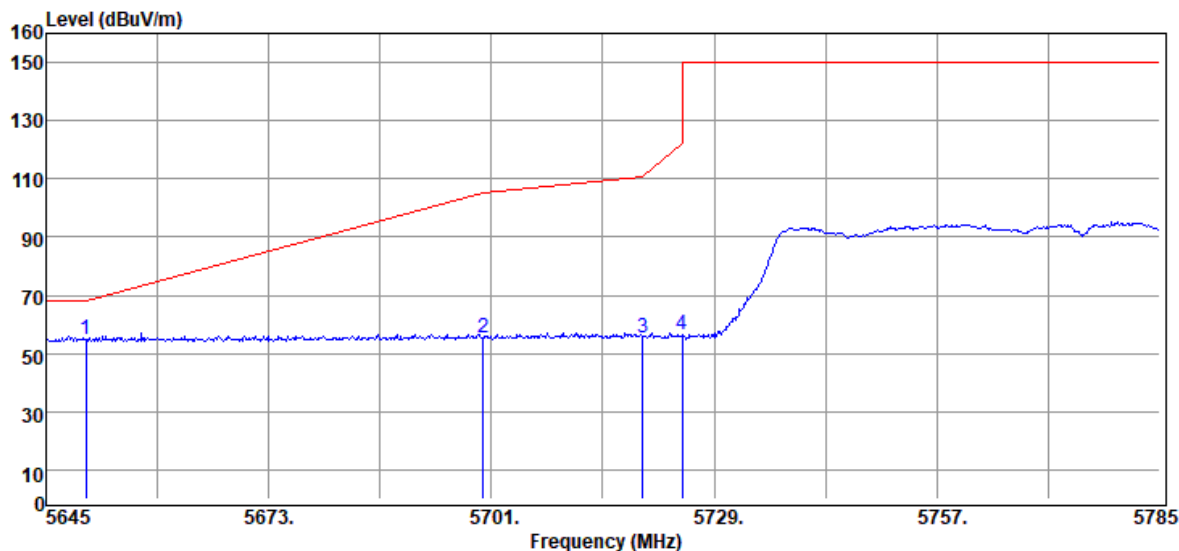
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Report Number :E2/2019/C0008
Operation Mode :802.11ac80 / Band 4
Test Channel :5775 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.5/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	54.00	0.69	54.69	68.20	-13.51
5700.00	Peak	54.44	1.00	55.44	105.20	-49.76
5720.00	Peak	54.55	0.99	55.54	110.80	-55.26
5725.00	Peak	55.35	0.98	56.33	122.20	-65.87

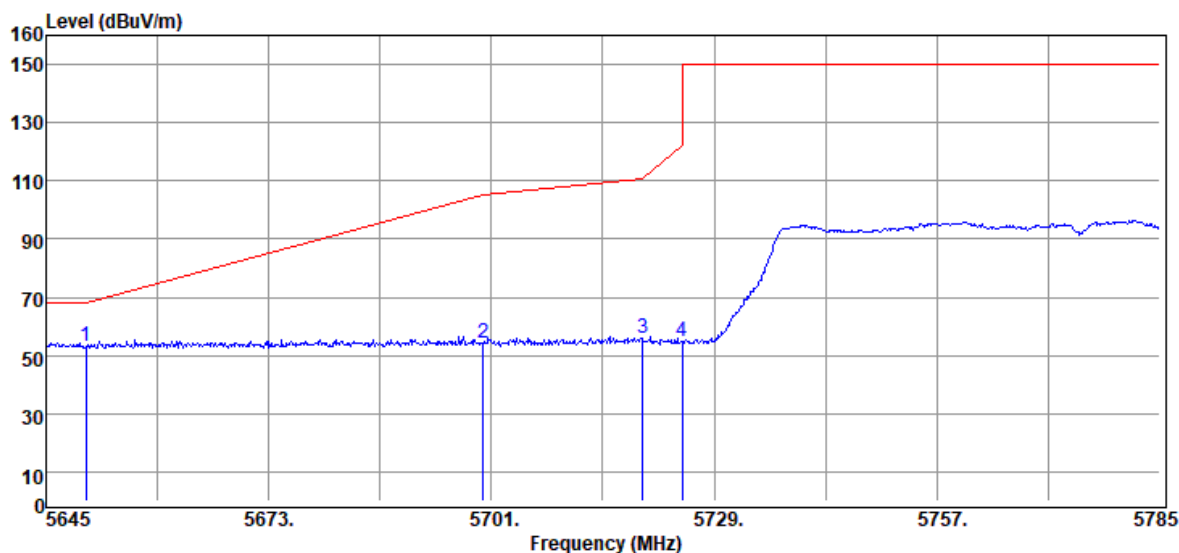
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Report Number :E2/2019/C0008
Operation Mode :802.11ac80 / Band 4
Test Channel :5775 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2019-12-20
Temp./Humi. :20.5/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	52.50	0.69	53.19	68.20	-15.01
5700.00	Peak	53.22	1.00	54.22	105.20	-50.98
5720.00	Peak	54.67	0.99	55.66	110.80	-55.14
5725.00	Peak	53.97	0.98	54.95	122.20	-67.25

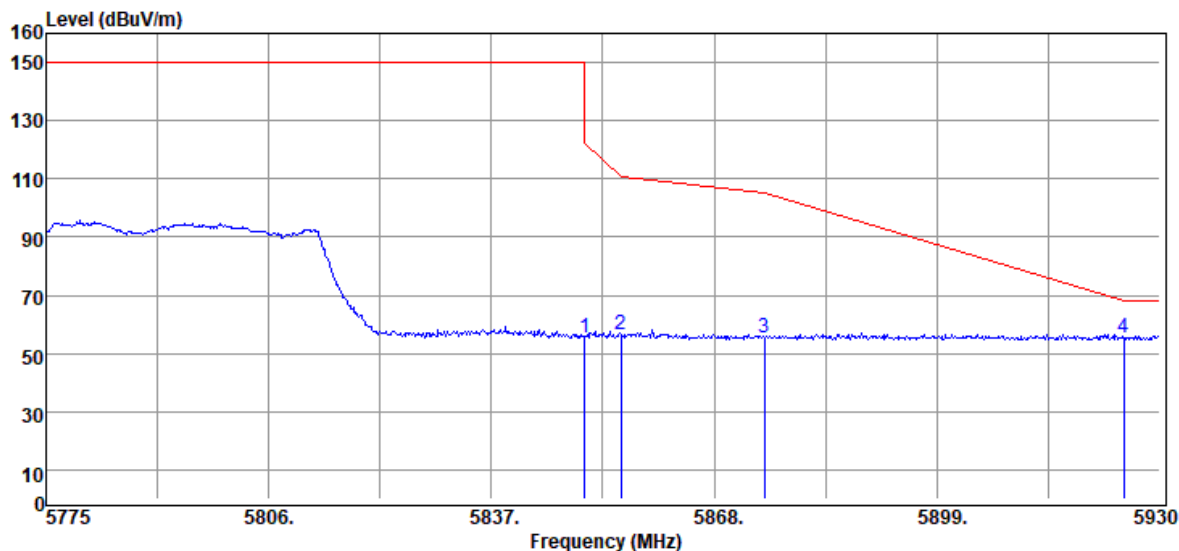
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 4
 Test Channel :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	54.27	1.13	55.40	122.20	-66.80
5855.00	Peak	55.38	1.16	56.54	110.80	-54.26
5875.00	Peak	53.94	1.31	55.25	105.20	-49.95
5925.00	Peak	54.11	1.37	55.48	68.20	-12.72

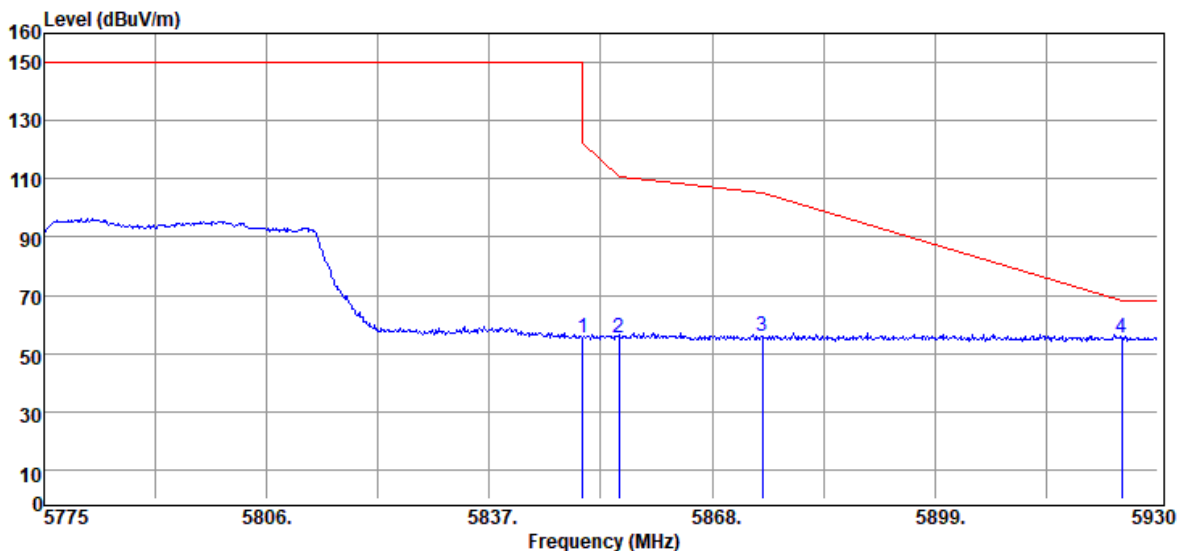
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Report Number :E2/2019/C0008
 Operation Mode :802.11ac80 / Band 4
 Test Channel :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2019-12-20
 Temp./Humi. :20.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	54.33	1.13	55.46	122.20	-66.74
5855.00	Peak	53.97	1.16	55.13	110.80	-55.67
5875.00	Peak	54.67	1.31	55.98	105.20	-49.22
5925.00	Peak	53.81	1.37	55.18	68.20	-13.02

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the control-ling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

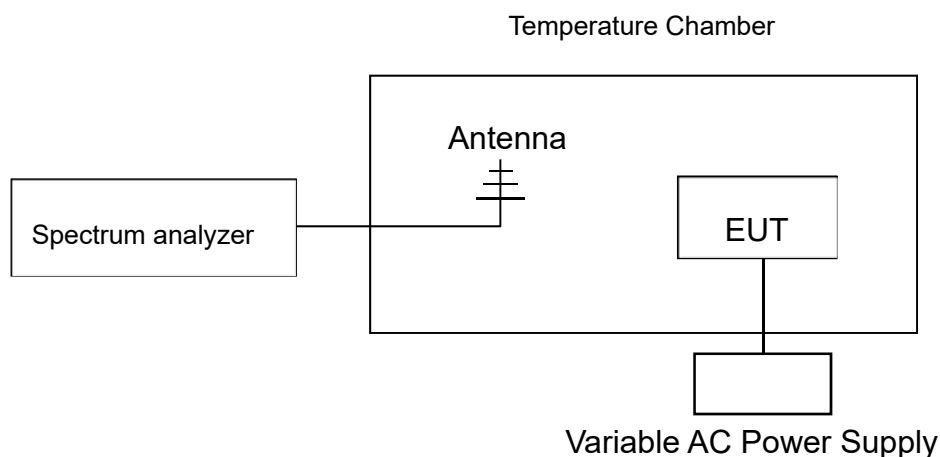
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/09/2019	07/08/2020

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2019.12.24
Temperature	: 22.1°C	Test By	Hone
Humidity	: 64%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,179.98740	0.00000243
	3.4	36	5180	5,179.98770	0.00000237
25	3.8	36	5180	5,179.99680	0.00000062
40	4.35	36	5180	5,179.98510	0.00000288
	3.4	36	5180	5,179.98560	0.00000278

2 minutes

Operation Mode	802.11 a	Test Date	2019.12.24
Temperature	: 22.1°C	Test By	Hone
Humidity	: 64%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,179.98730	0.00000245
	3.4	36	5180	5,179.99240	0.00000147
25	3.8	36	5180	5,179.99740	0.00000050
40	4.35	36	5180	5,179.99300	0.00000135
	3.4	36	5180	5,179.99140	0.00000166

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5 minutes

Operation Mode	802.11 a	Test Date	2019.12.24
Temperature	: 22.1°C	Test By	Hone
Humidity	: 64%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,179.99820	0.00000035
	3.4	36	5180	5,179.98750	0.00000241
25	3.8	36	5180	5,179.98590	0.00000272
40	4.35	36	5180	5,179.98840	0.00000224
	3.4	36	5180	5,179.99040	0.00000185

10 minutes

Operation Mode	802.11 a	Test Date	2019.12.24
Temperature	: 22.1°C	Test By	Hone
Humidity	: 64%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,179.99240	0.00000147
	3.4	36	5180	5,179.99420	0.00000112
25	3.8	36	5180	5,179.99730	0.00000052
40	4.35	36	5180	5,179.98670	0.00000257
	3.4	36	5180	5,179.99650	0.00000068

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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