



FCC 47 CFR PART 15 SUBPART C

**CERTIFICATION TEST REPORT
FOR**

GSM Phone & Bluetooth

MODEL NUMBER: SM-B360E

FCC ID: A3LSMB360E

REPORT NUMBER: 14I18850-E2

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Prepared for

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM Phone & Bluetooth.
MODEL: SM-B360E
SERIAL NUMBER: 1961017 (Conducted), 1961009 (Radiated)
DATE TESTED: SEPTEMBER 19-22, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A(IC: 2324B-1)	☐ Chamber D(IC: 2324B-4)
☒ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 2324B-5)
☒ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 2324B-6)
	☐ Chamber G(IC: 2324B-7)
	☐ Chamber H(IC: 2324B-8)

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM Bar Phone & Bluetooth.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	Basic GFSK	9.50	8.91
2402 - 2480	Enhanced 8PSK	9.34	8.59

Note: GFSK, Pi/4-DQPSK, 8PSK average Power are all investigated, The GFSK & 8PSK Power are the worst case. Testing is based on this mode to showing compliance. For average power data please refer to section 8.6.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -1.4 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	SAMSUNG	ETA3U30IBE	N/A	N/A
Earphone	SAMSUNG	N/A	N/A	N/A

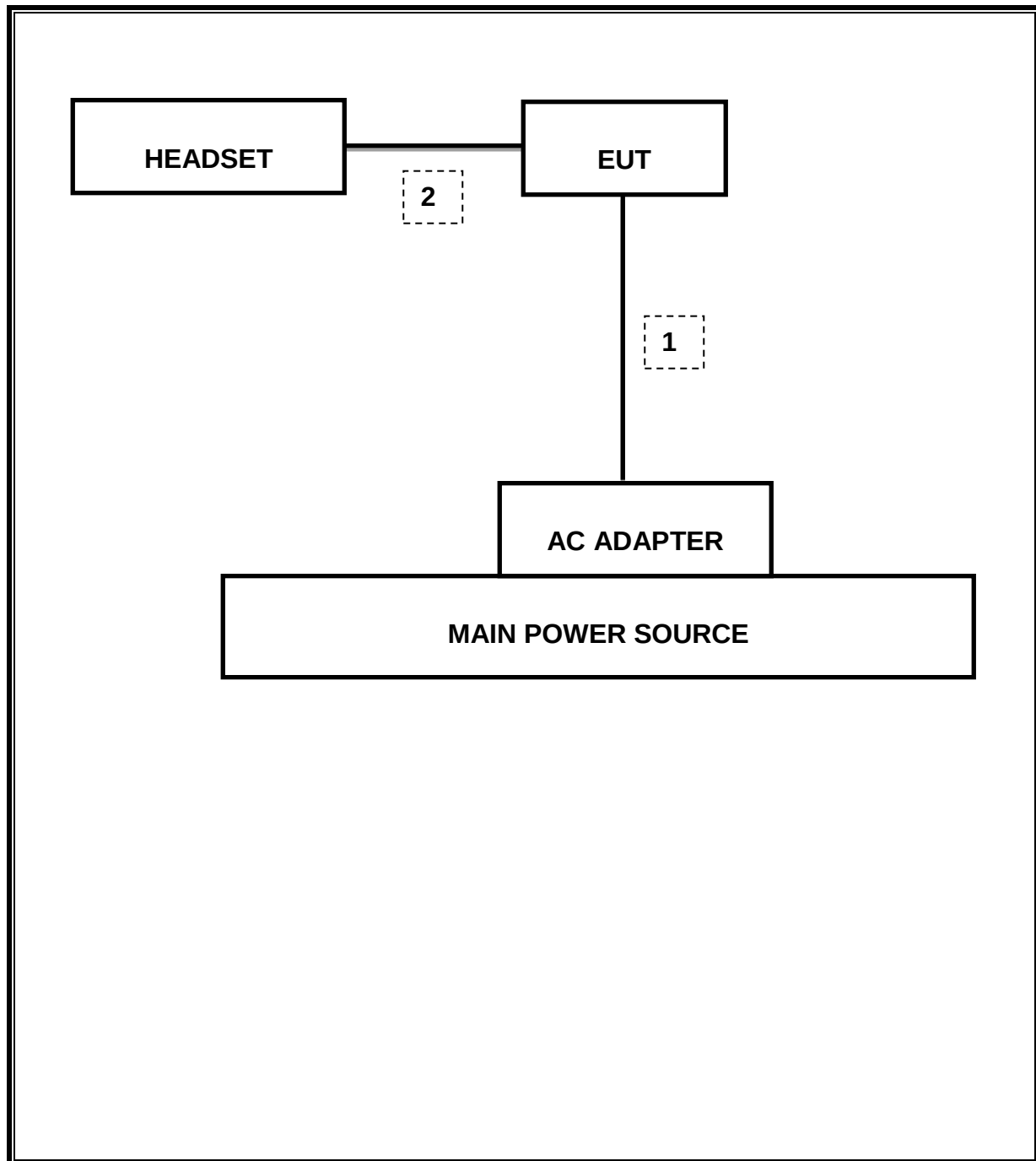
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests.
EUT was set in the Hidden menu mode to enable BT communications.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01171	02/13/15
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/14
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
CBT Bluetooth Tester	R & S	CBT	None	07/12/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/15
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14

7. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	RSS-GEN 4.6	Occupied Band width (99%)	N/A	Conducted	Pass	1.174MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-33.93dBm
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	9.5dBm
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	1MHz
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Number of Hopping channels	More than 15 non-overlapping channels		Pass	79
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Avg Time of Occupancy	< 0.4sec		Pass	0.32sec
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	42.46dBuV(PK)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	41.36dBuV/m

8. ANTENNA PORT TEST RESULTS

8.1. 20 dB AND 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq$ 1% of the 20 dB bandwidth. The VBW is set to $\geq$ RBW. The sweep time is coupled.

RESULTS

8.1.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	0.963	0.918
Middle	2441	0.965	0.857
High	2480	0.965	0.821
Worst		0.965	0.918

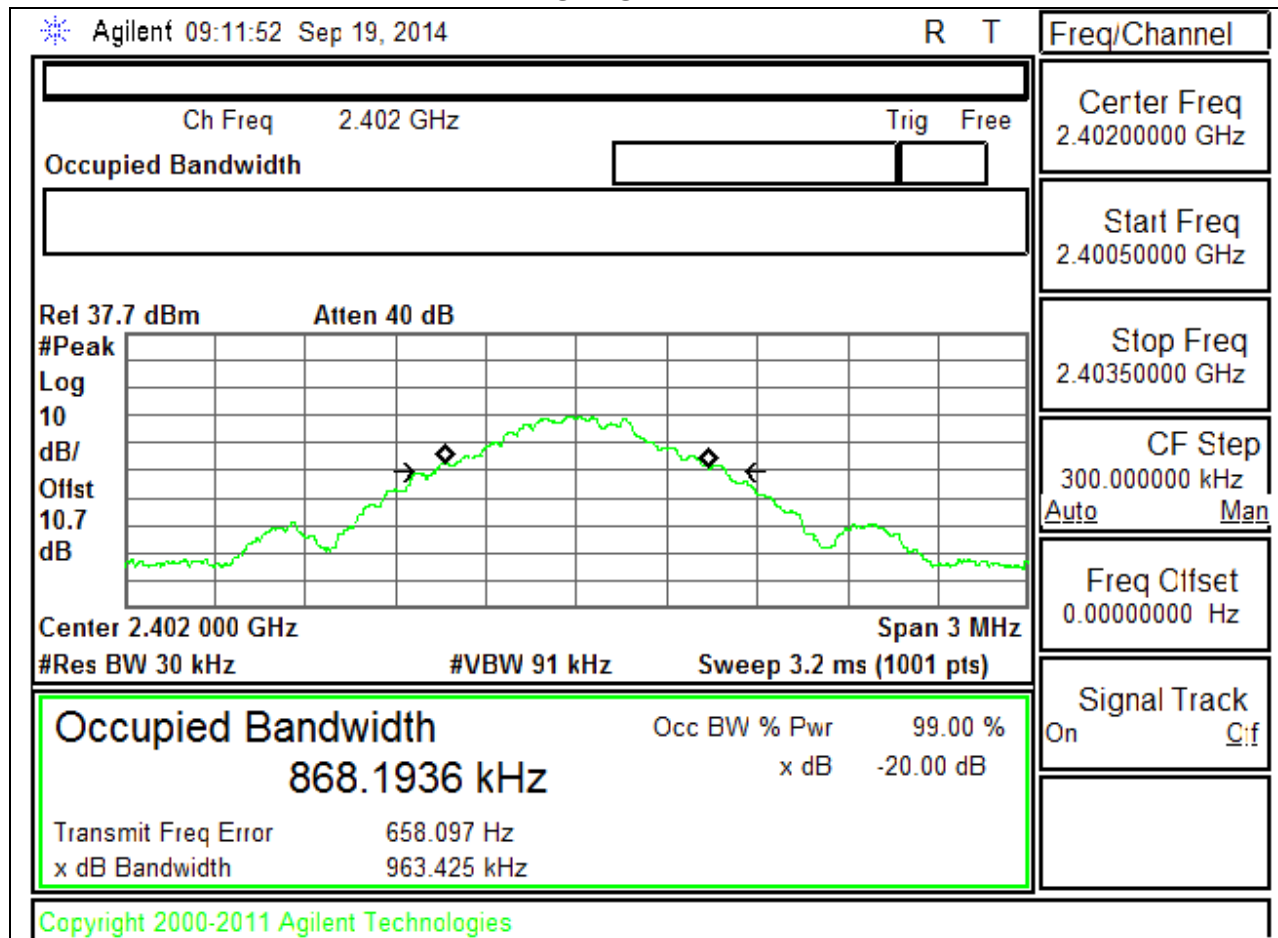
8.1.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.312	1.174
Middle	2441	1.311	1.17
High	2480	1.311	1.168
Worst		1.312	1.174

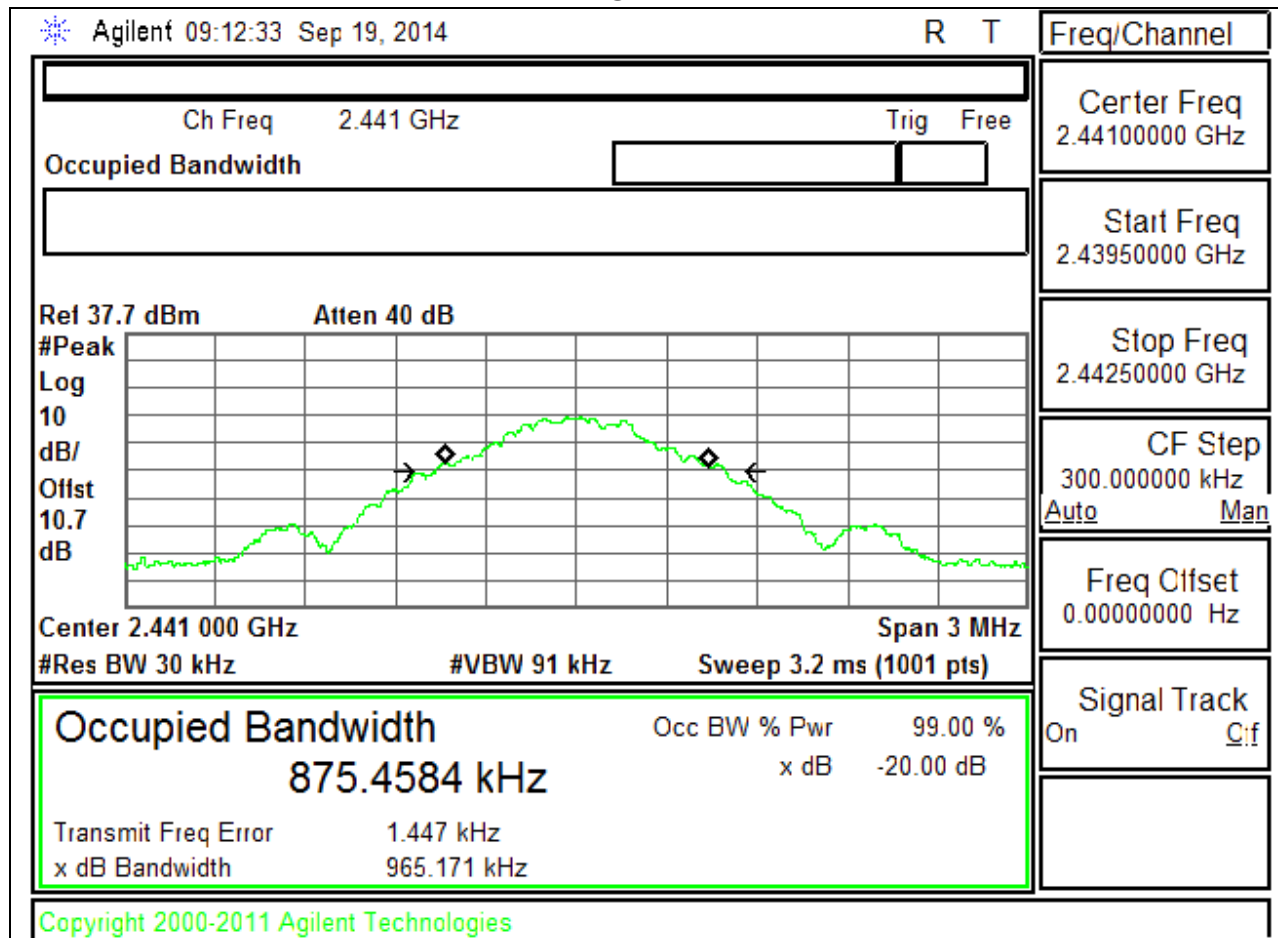
20 dB AND 99% BANDWIDTH PLOTS

GFSK 20 dB BANDWIDTH

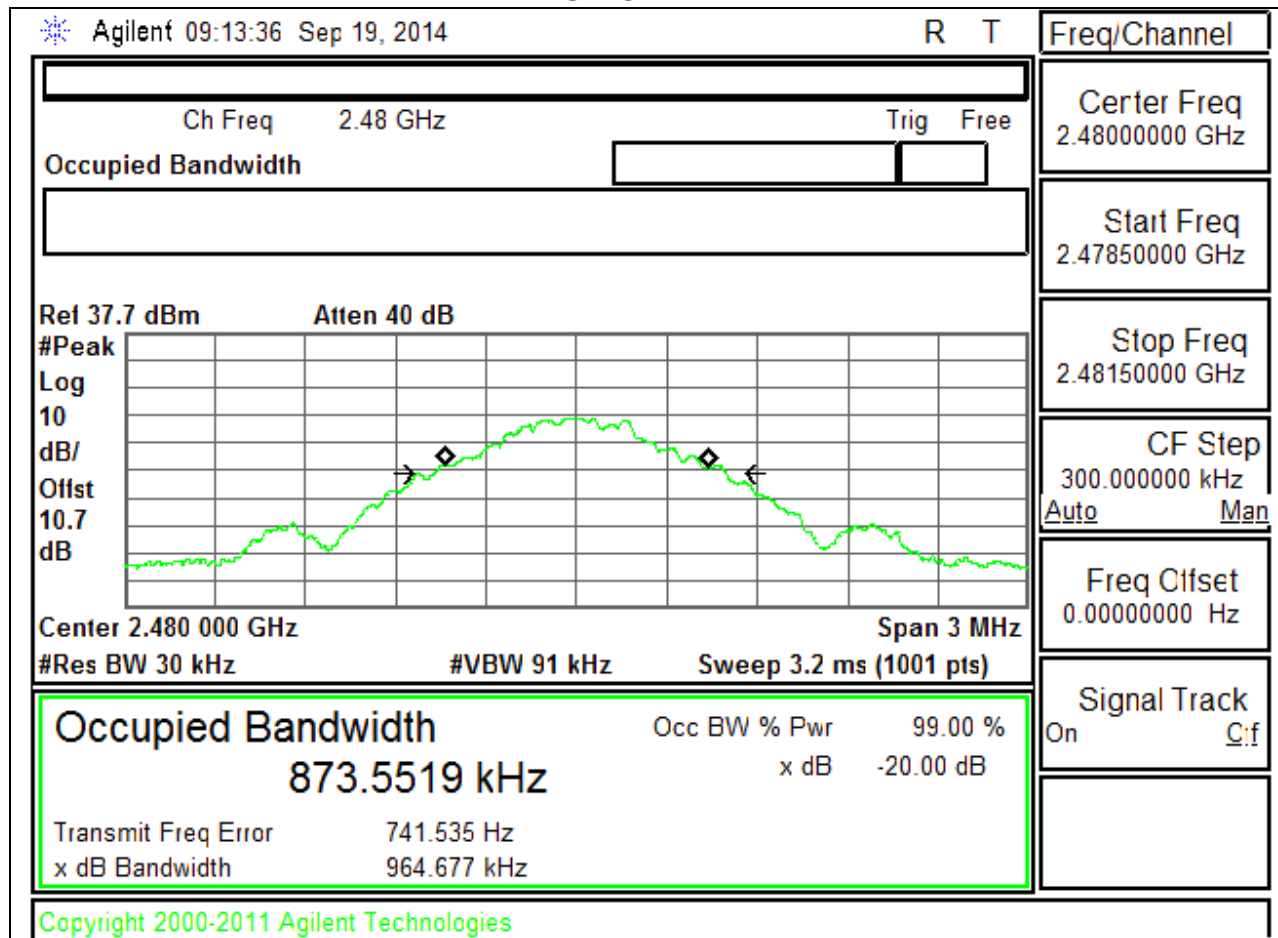
LOW CHANNEL



MID CHANNEL

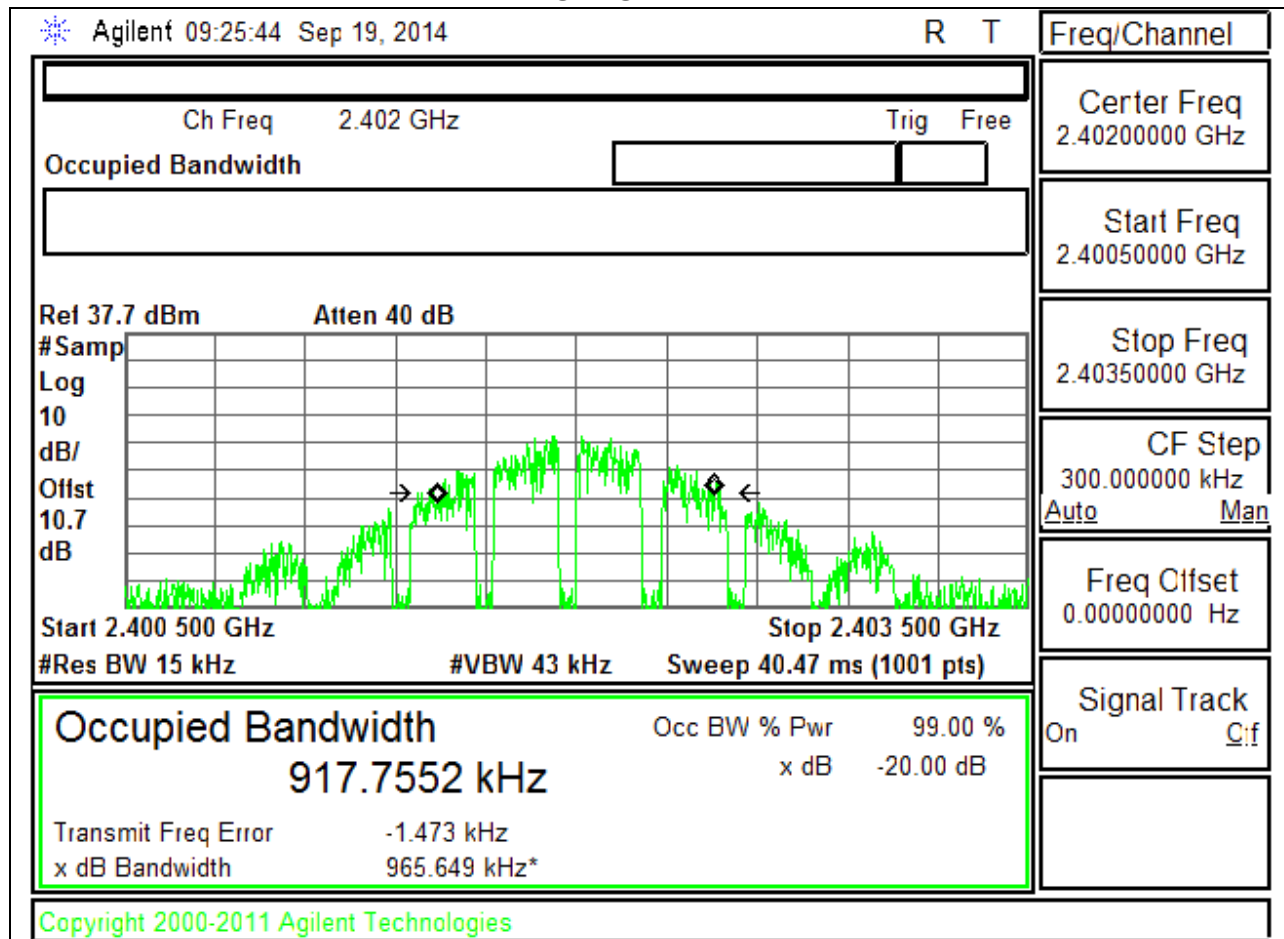


HIGH CHANNEL

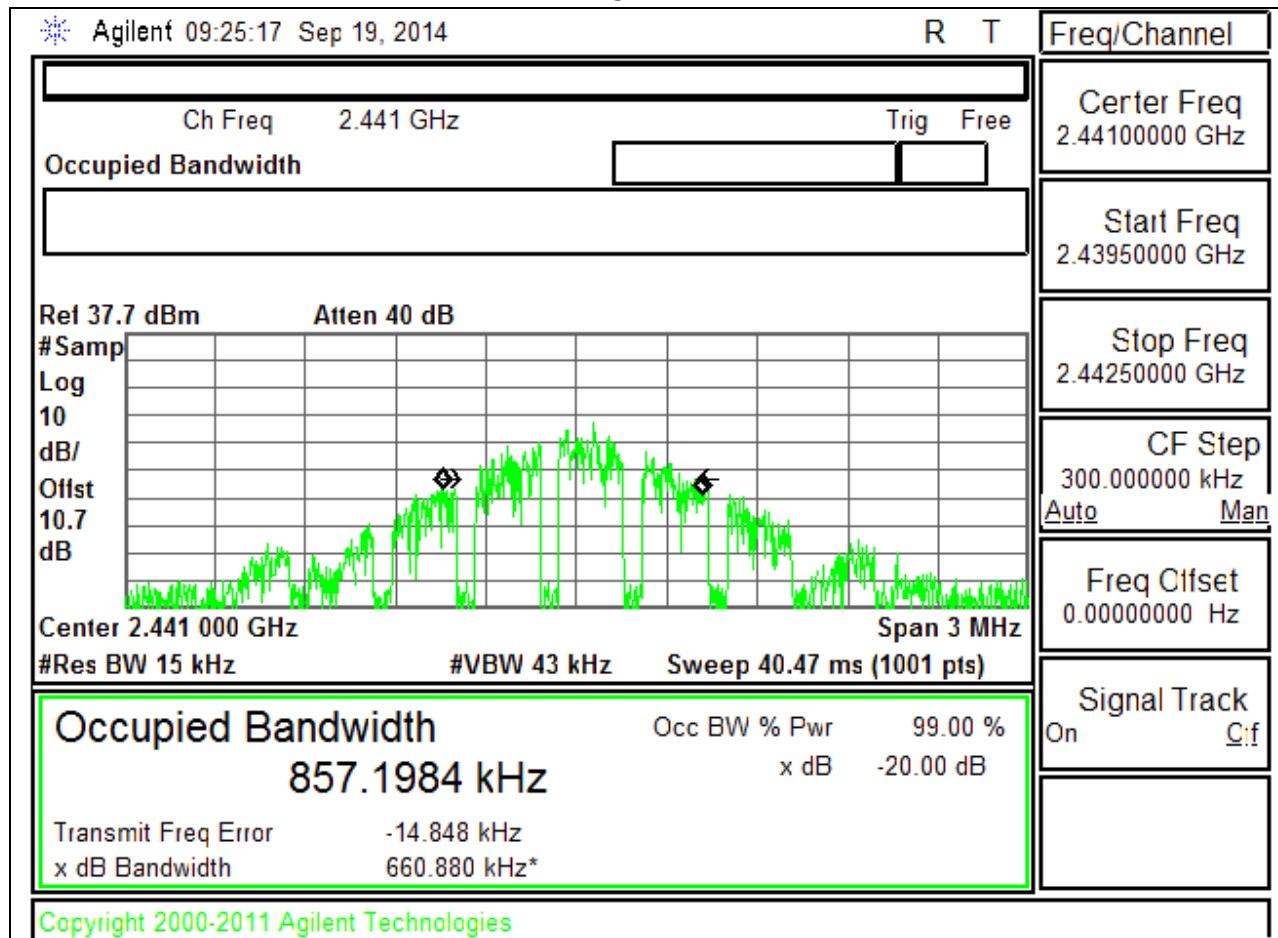


GFSK 99% BANDWIDTH

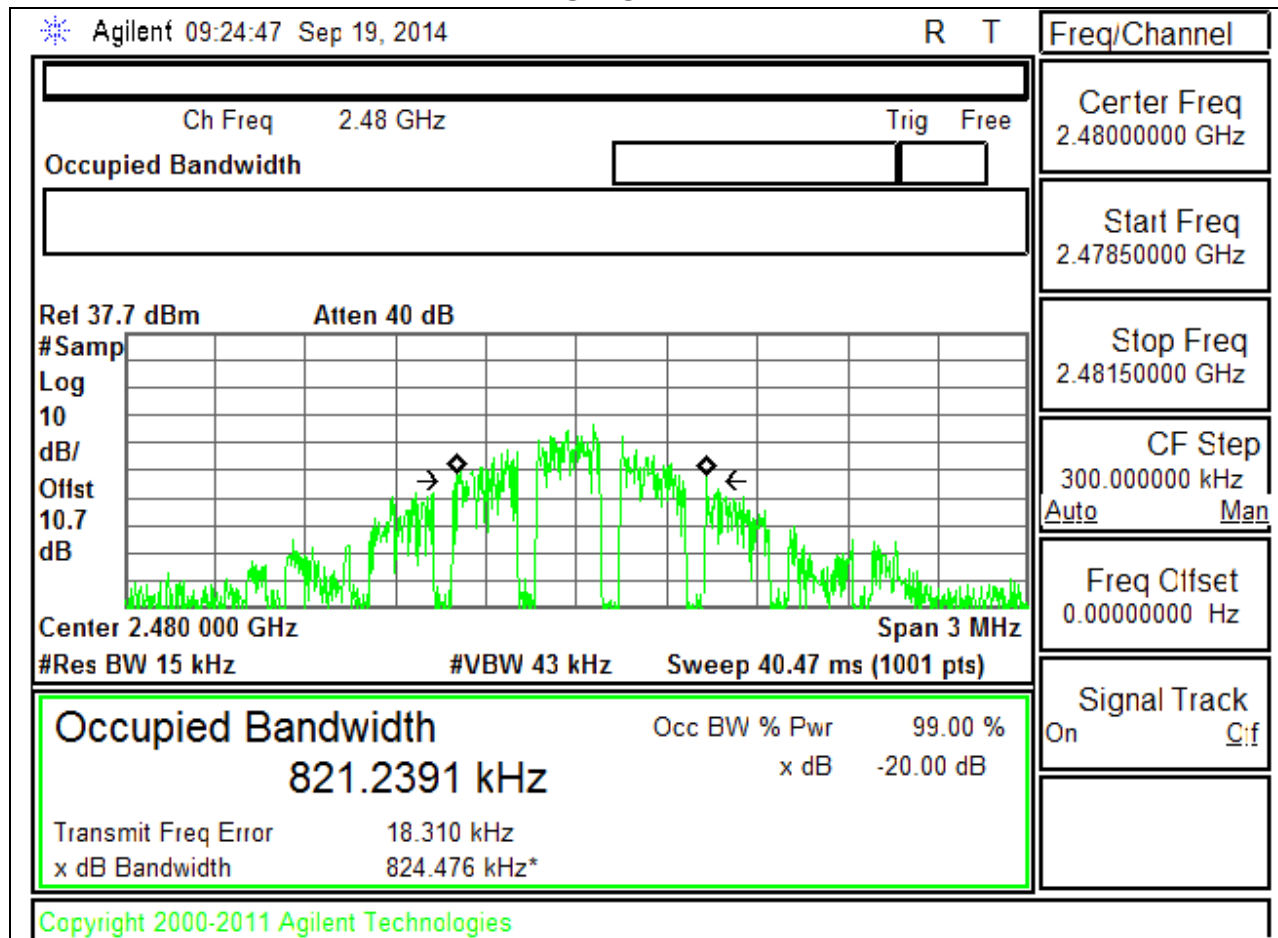
LOW CHANNEL



MID CHANNEL

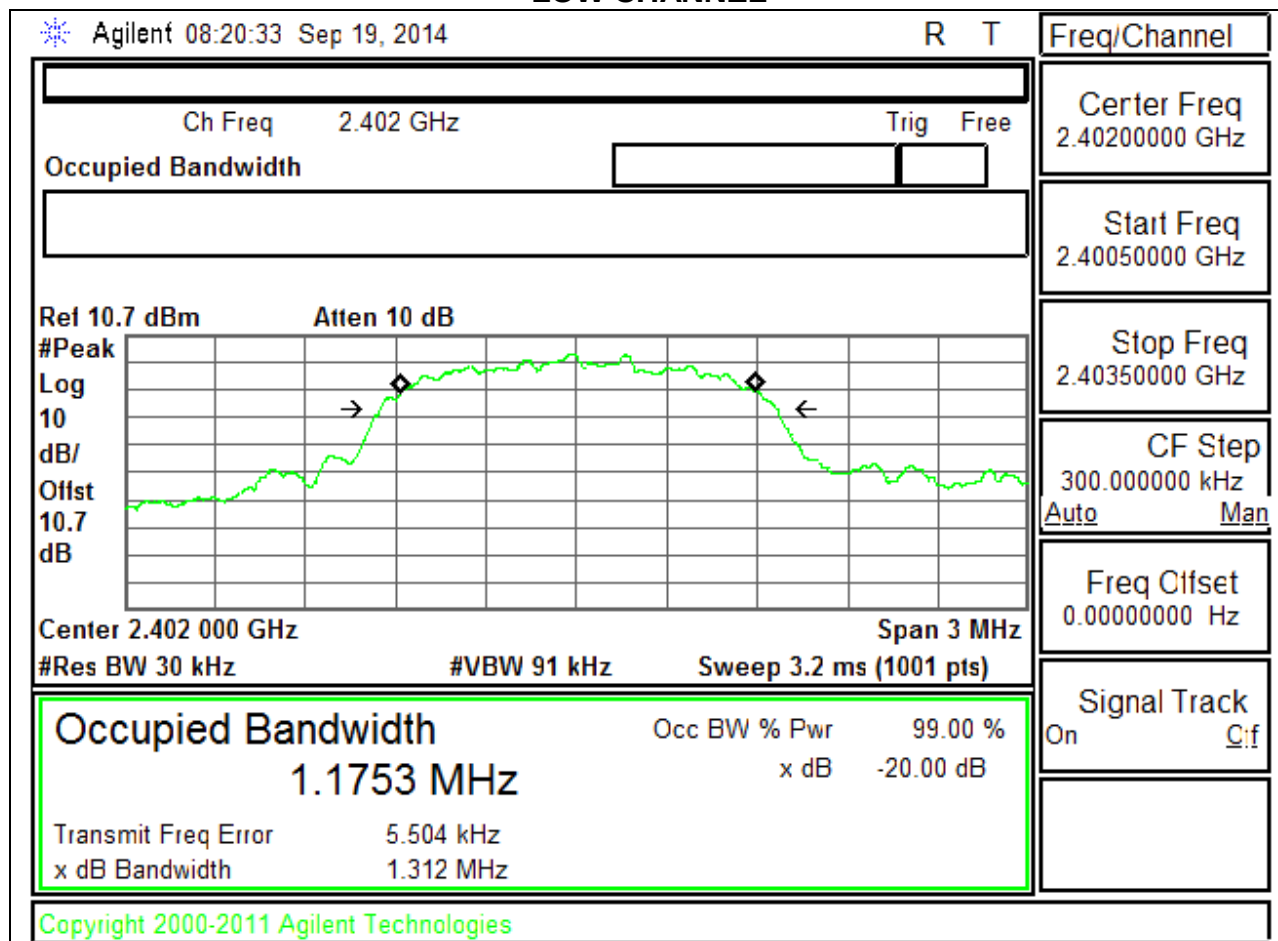


HIGH CHANNEL

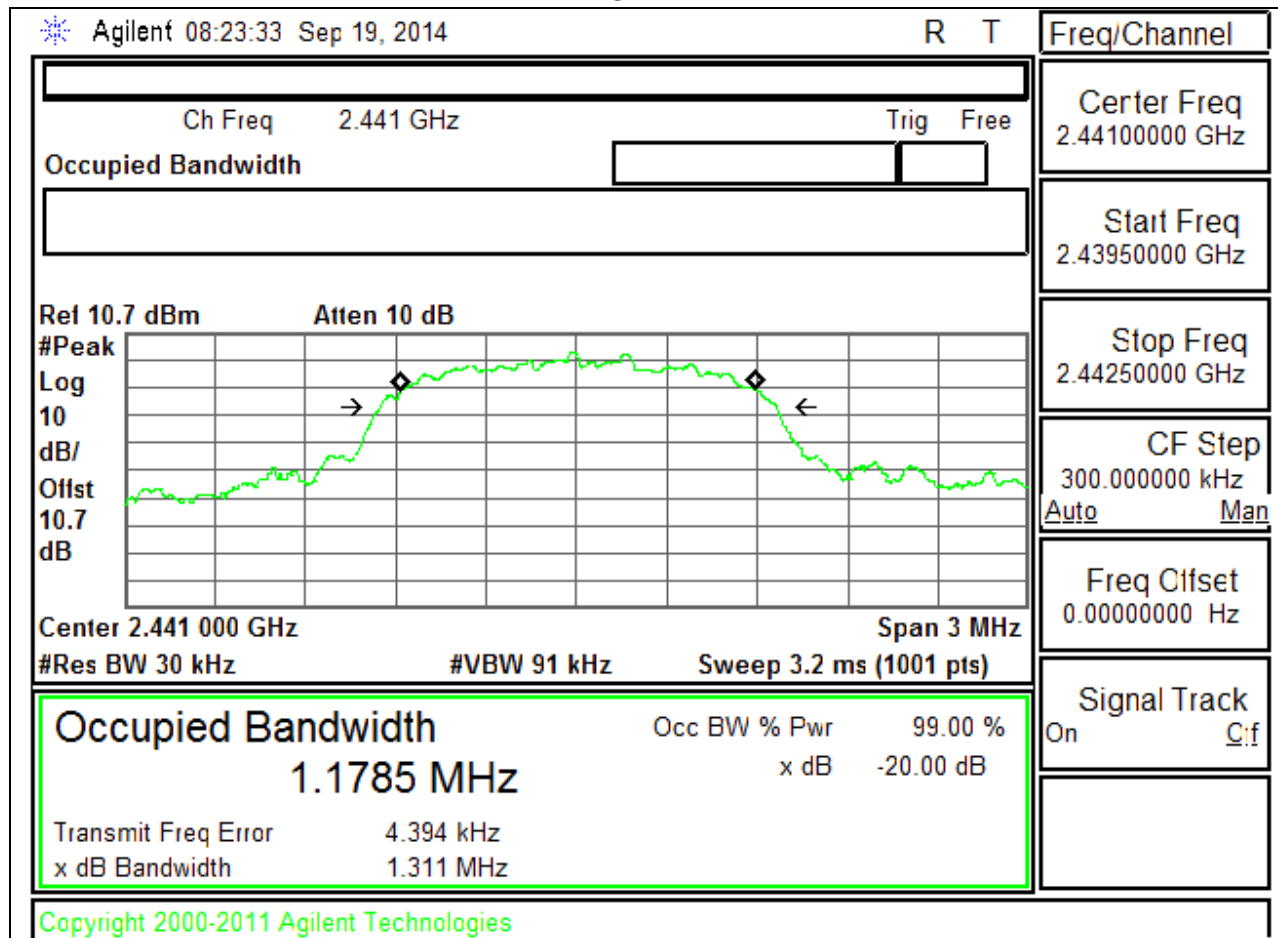


8PSK 20 dB BANDWIDTH

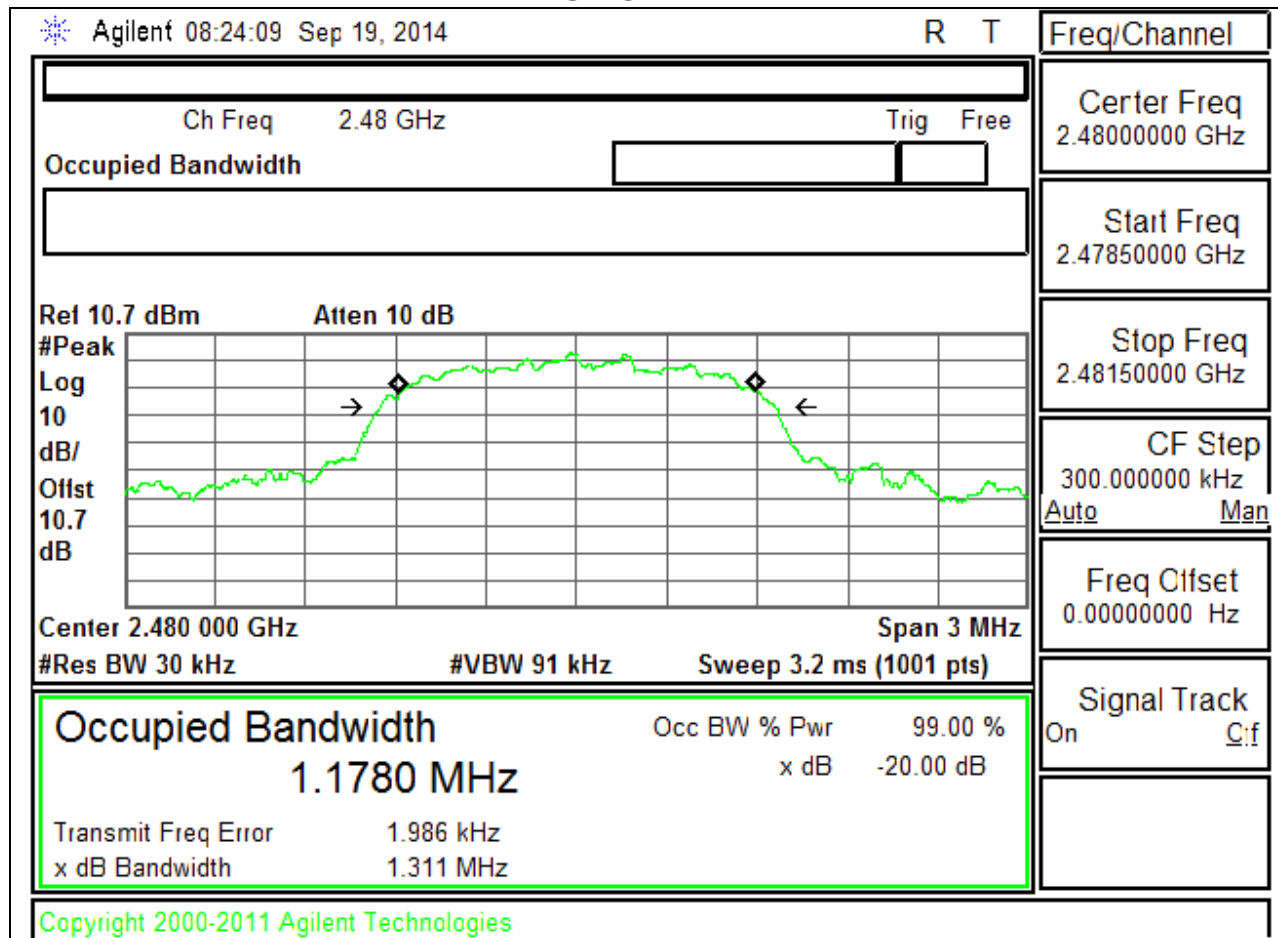
LOW CHANNEL



MID CHANNEL

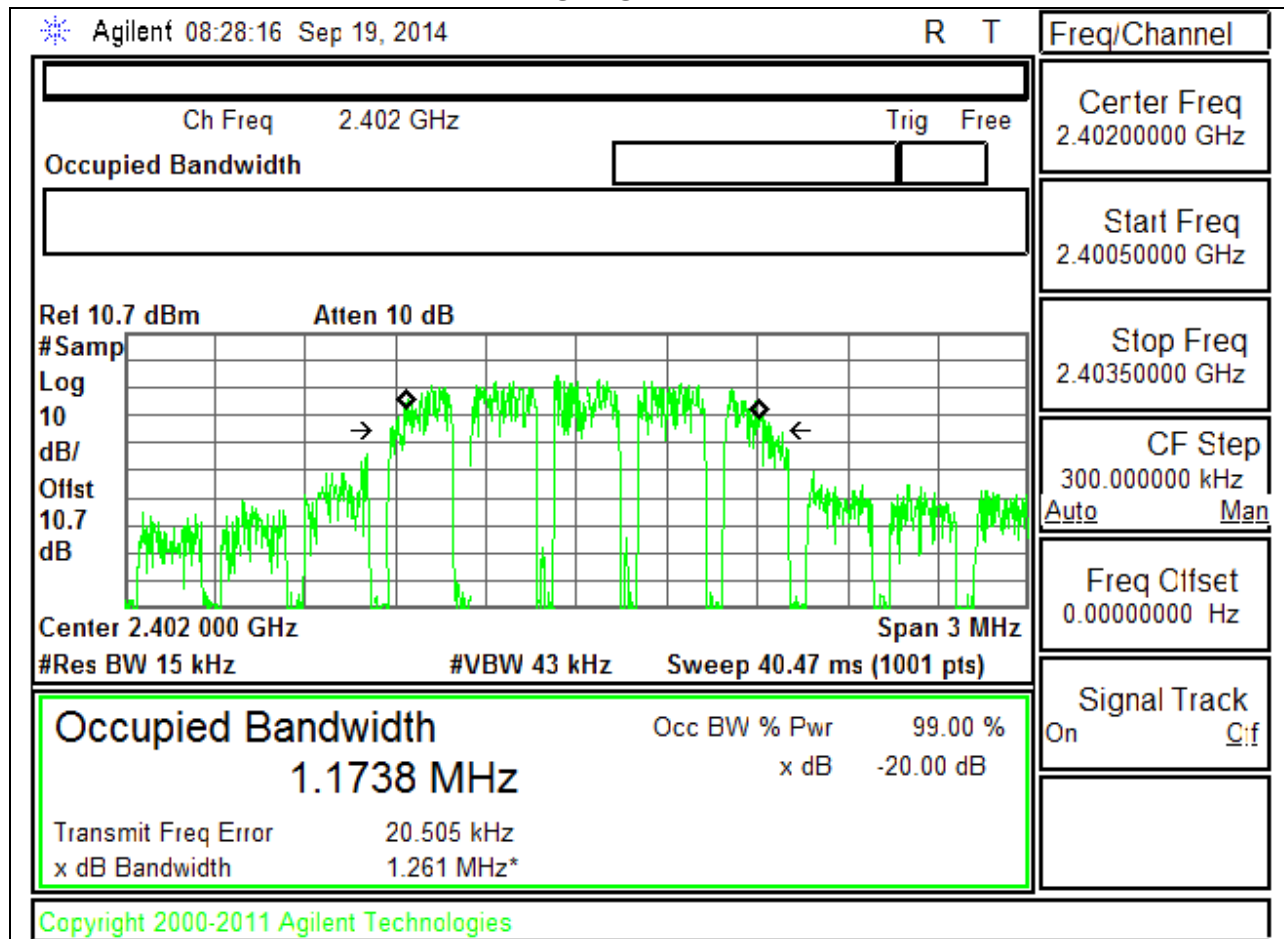


HIGH CHANNEL

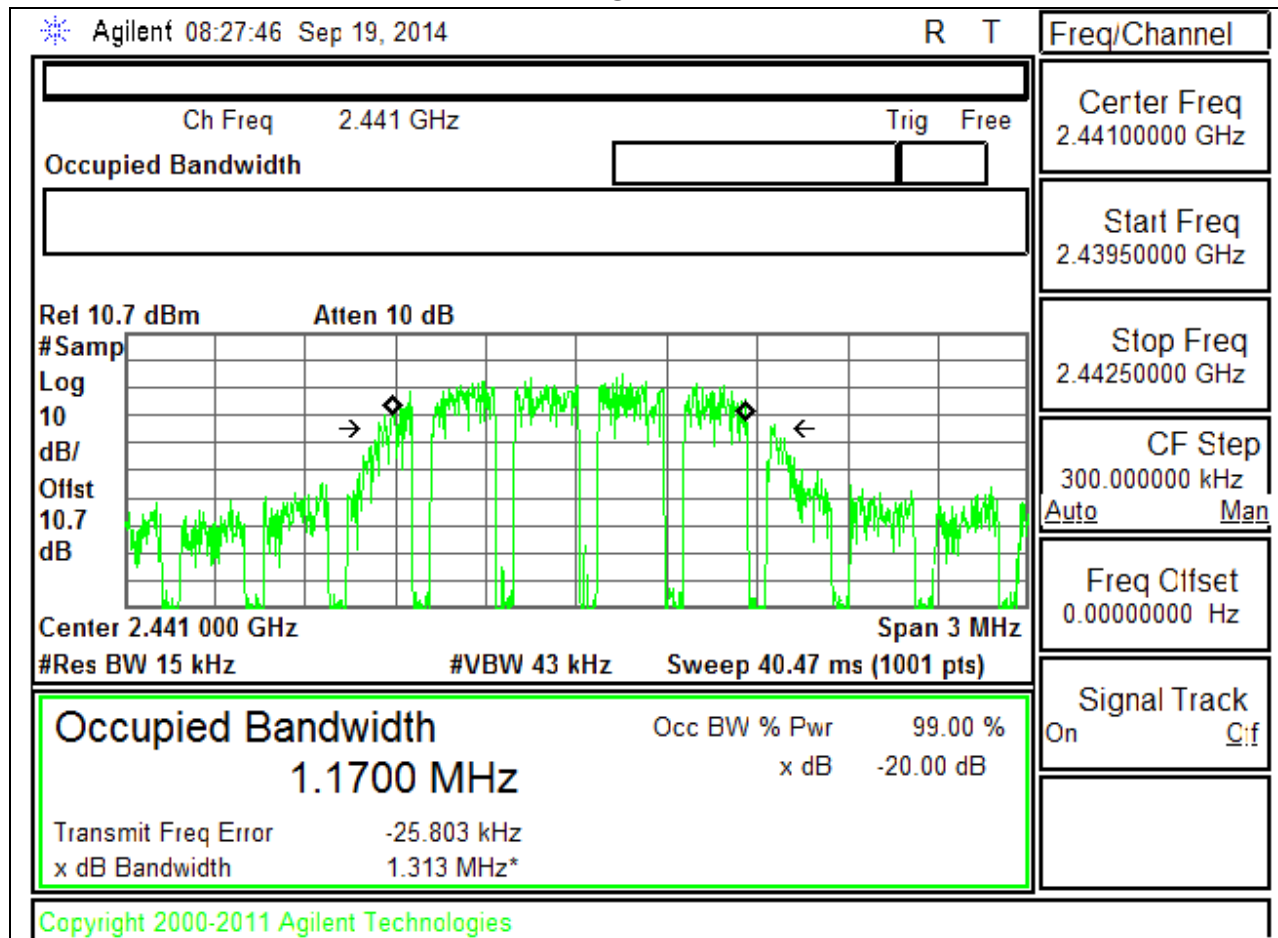


8PSK 99% BANDWIDTH

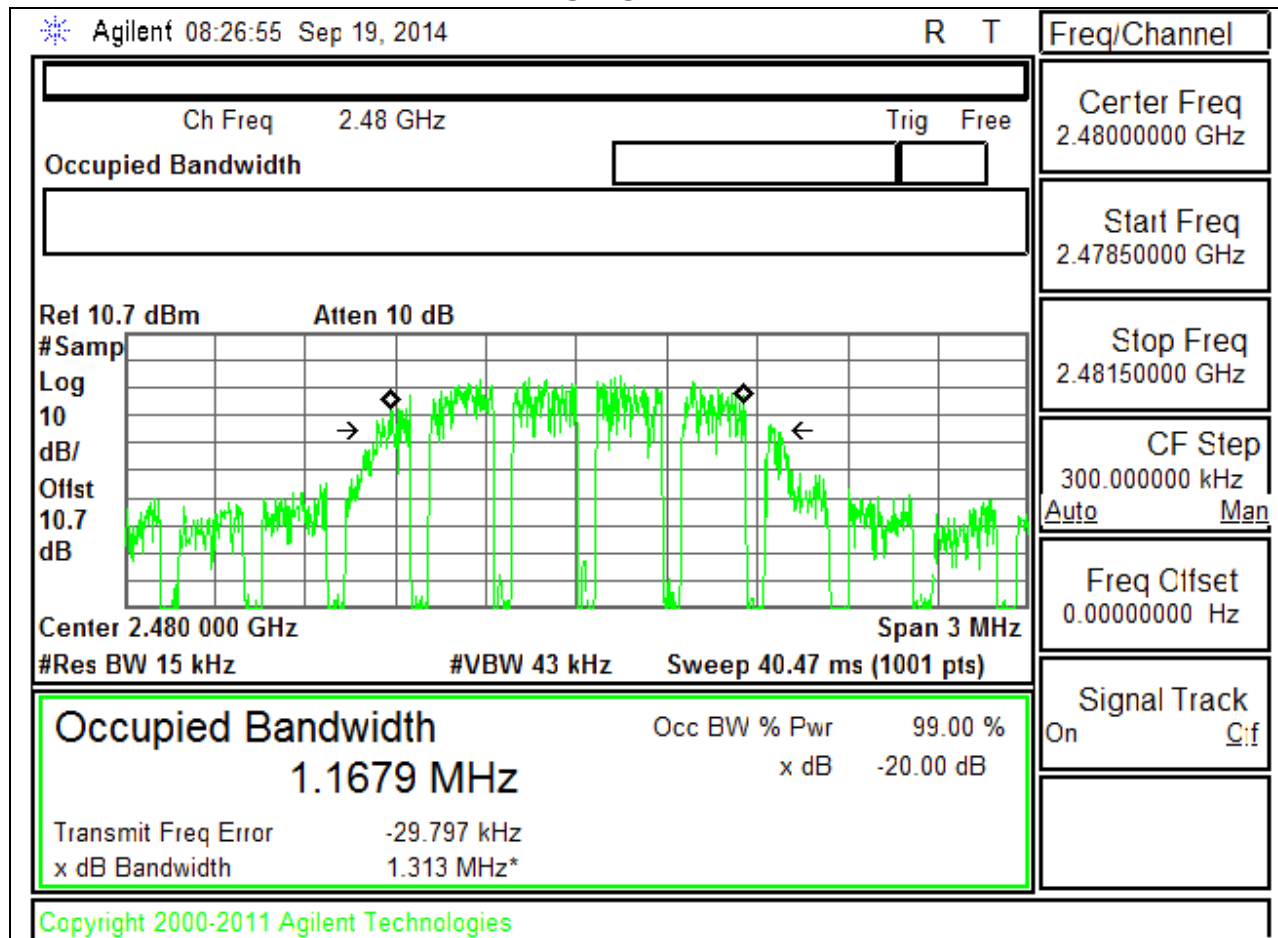
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.2. HOPPING FREQUENCY SEPARATION

LIMIT

FCC §15.247 (a) (1)

IC RSS-210 A8.1 (b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

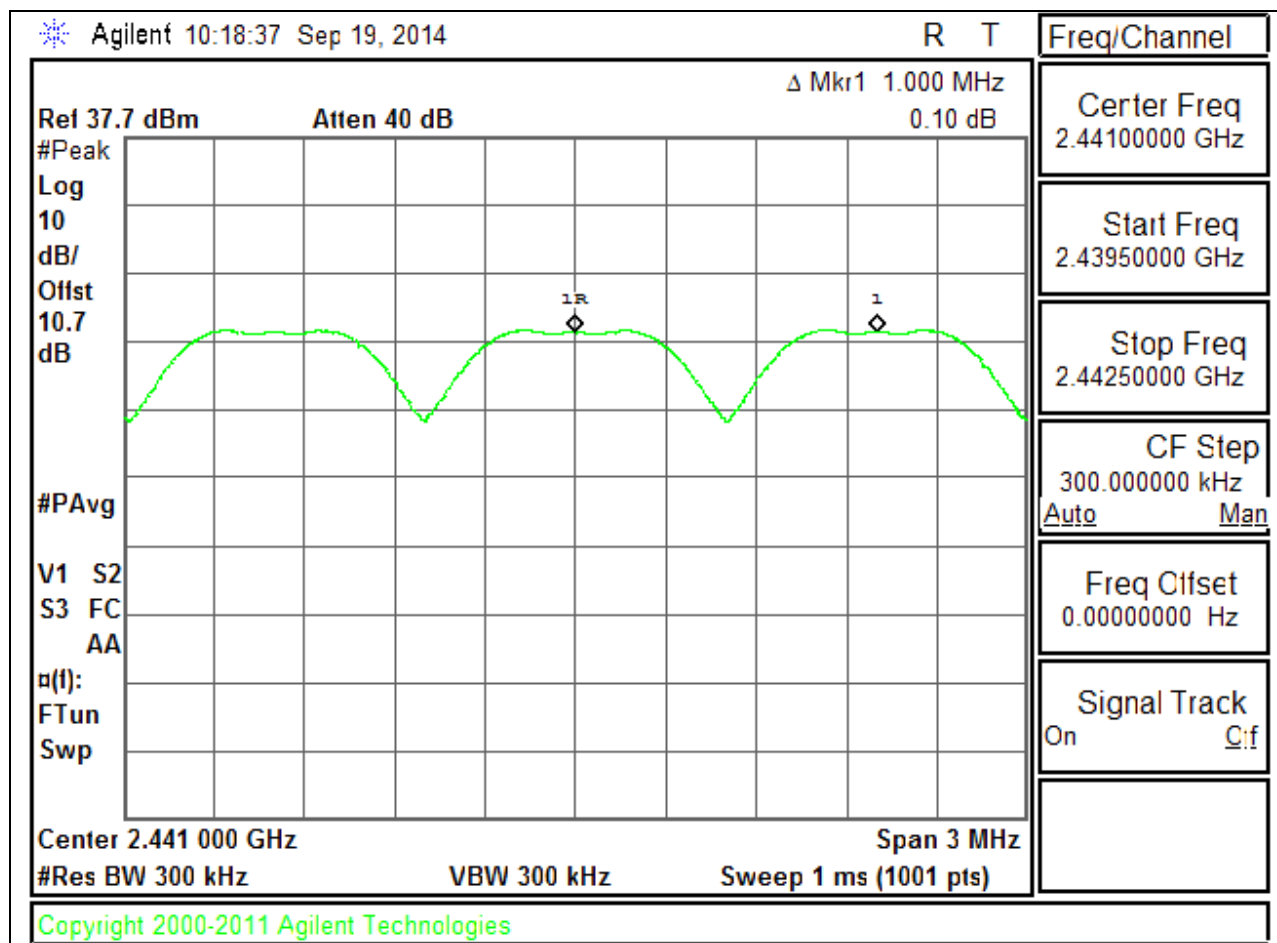
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

RESULTS

HOPPING FREQUENCY SEPARATION PLOT



8.3. NUMBER OF HOPPING CHANNELS

LIMIT

FCC §15.247 (a) (1) (iii)

IC RSS-210 A8.1 (d)

Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

TEST PROCEDURE

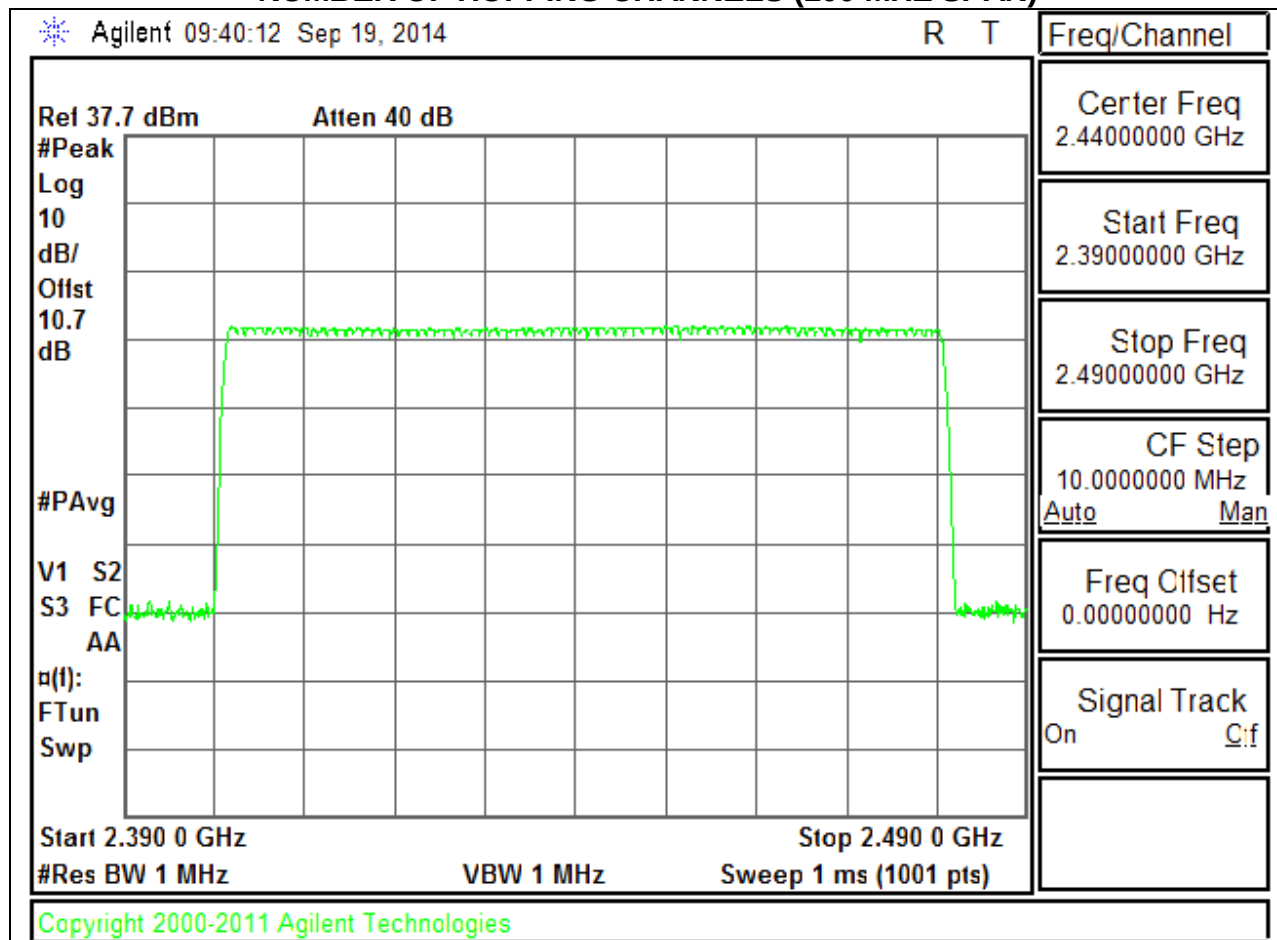
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

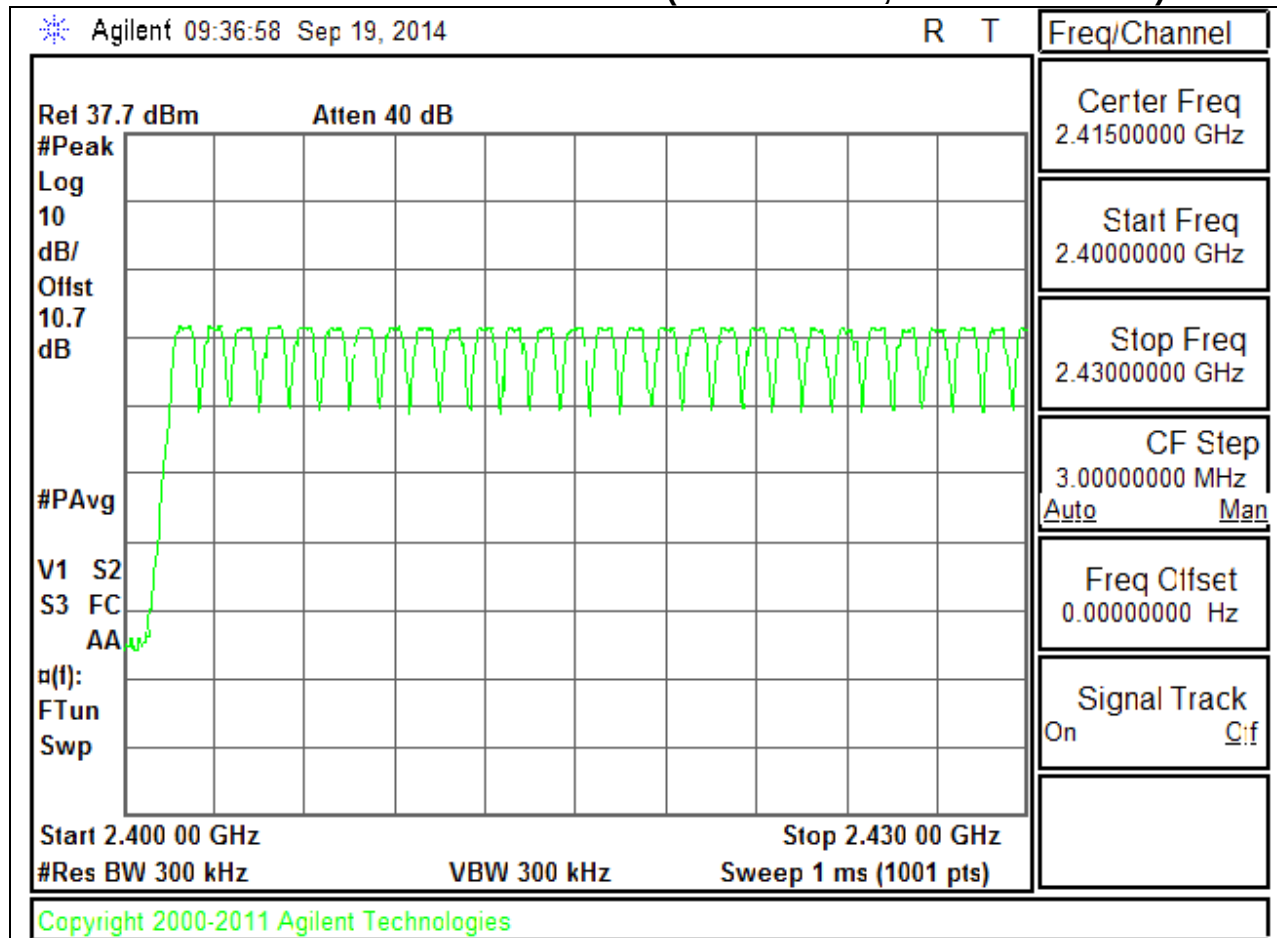
Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS PLOTS

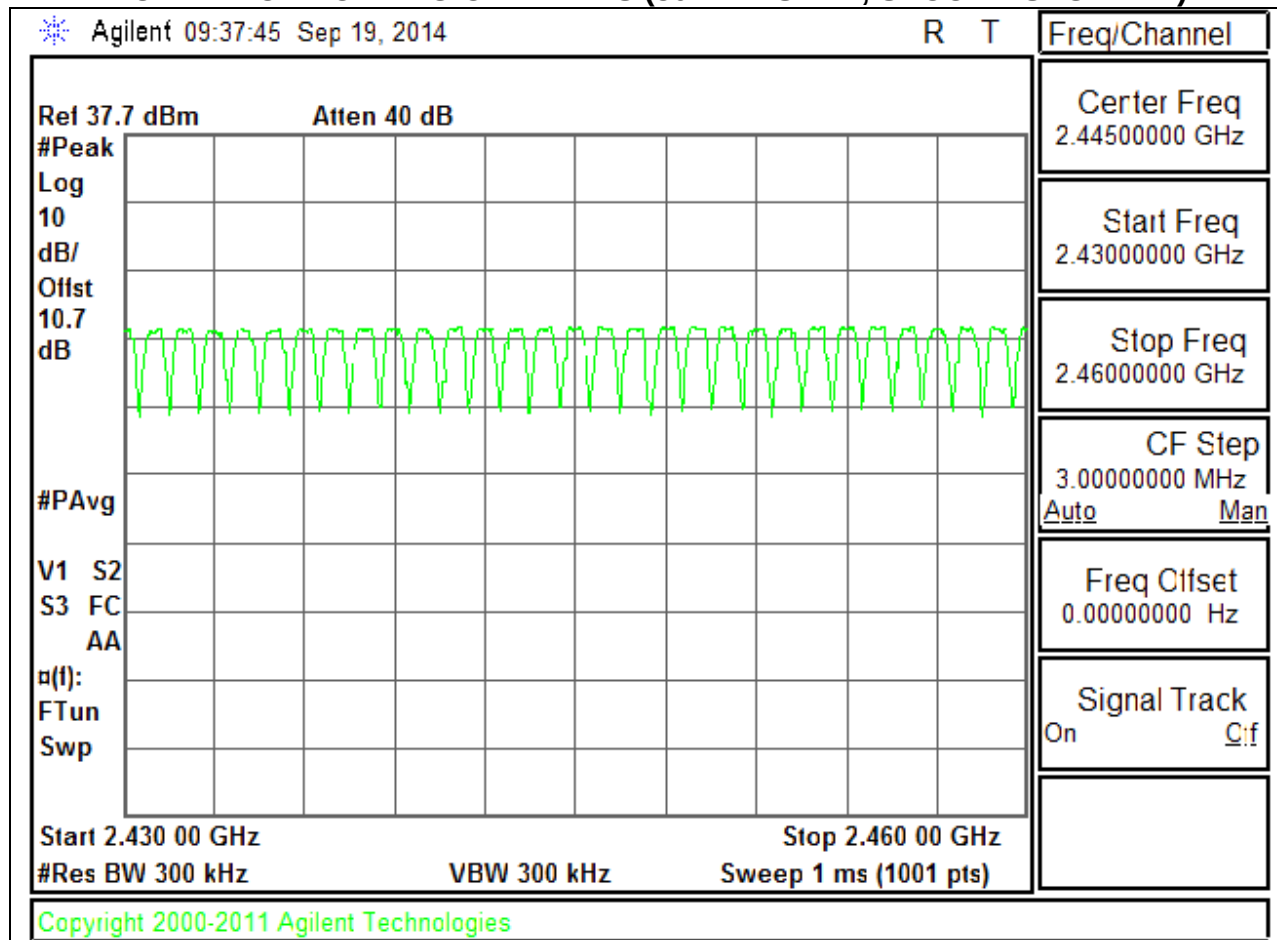
NUMBER OF HOPPING CHANNELS (100 MHZ SPAN)



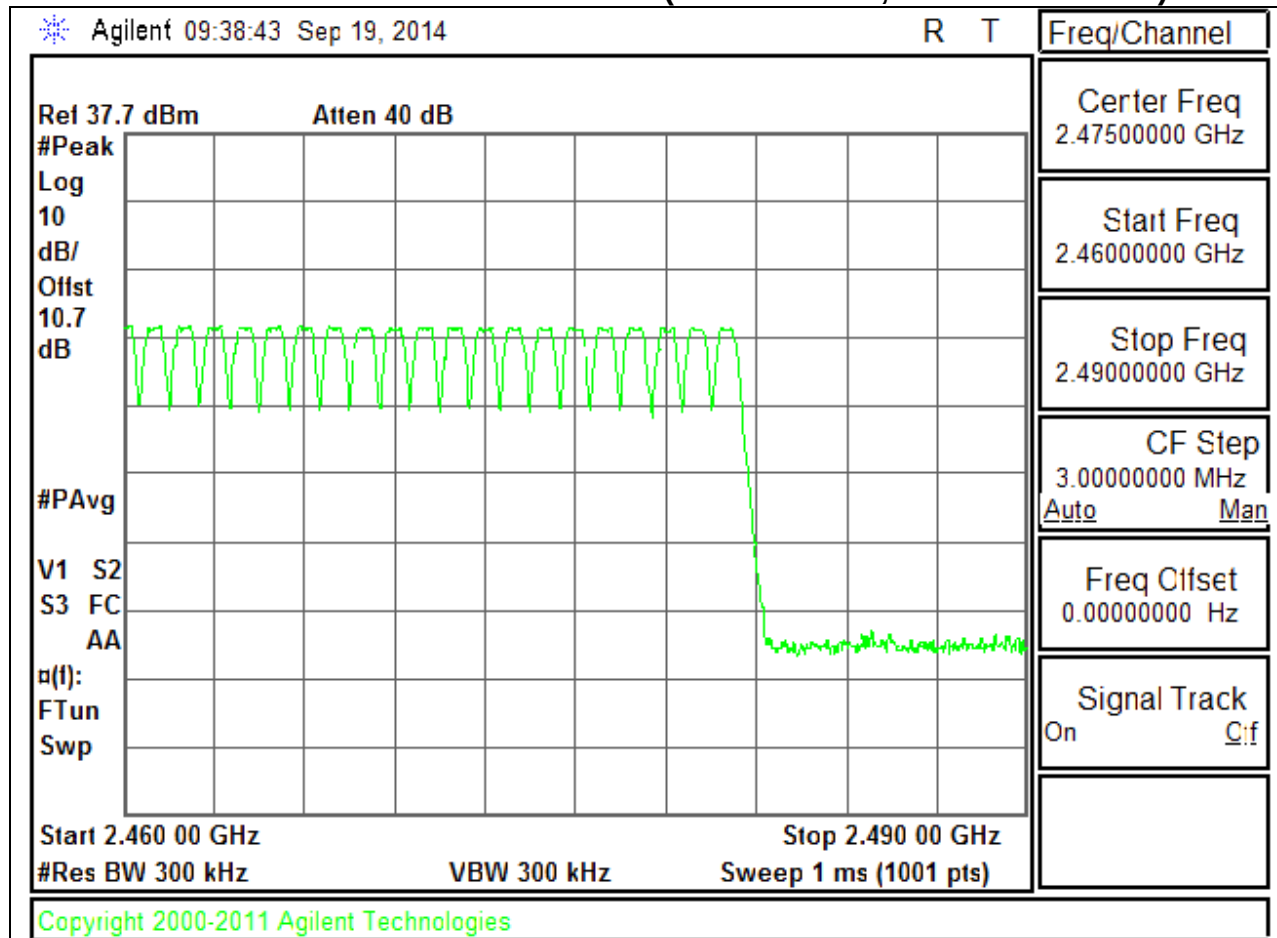
NUMBER OF HOPPING CHANNELS (30 MHz SPAN, FIRST SEGMENT)



NUMBER OF HOPPING CHANNELS (30 MHz SPAN, SECOND SEGMENT)



NUMBER OF HOPPING CHANNELS (30 MHZ SPAN, THIRD SEGMENT)



8.4. AVERAGE TIME OF OCCUPANCY

LIMIT

FCC §15.247 (a) (1) (iii)

IC RSS-210 A8.1 (d)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

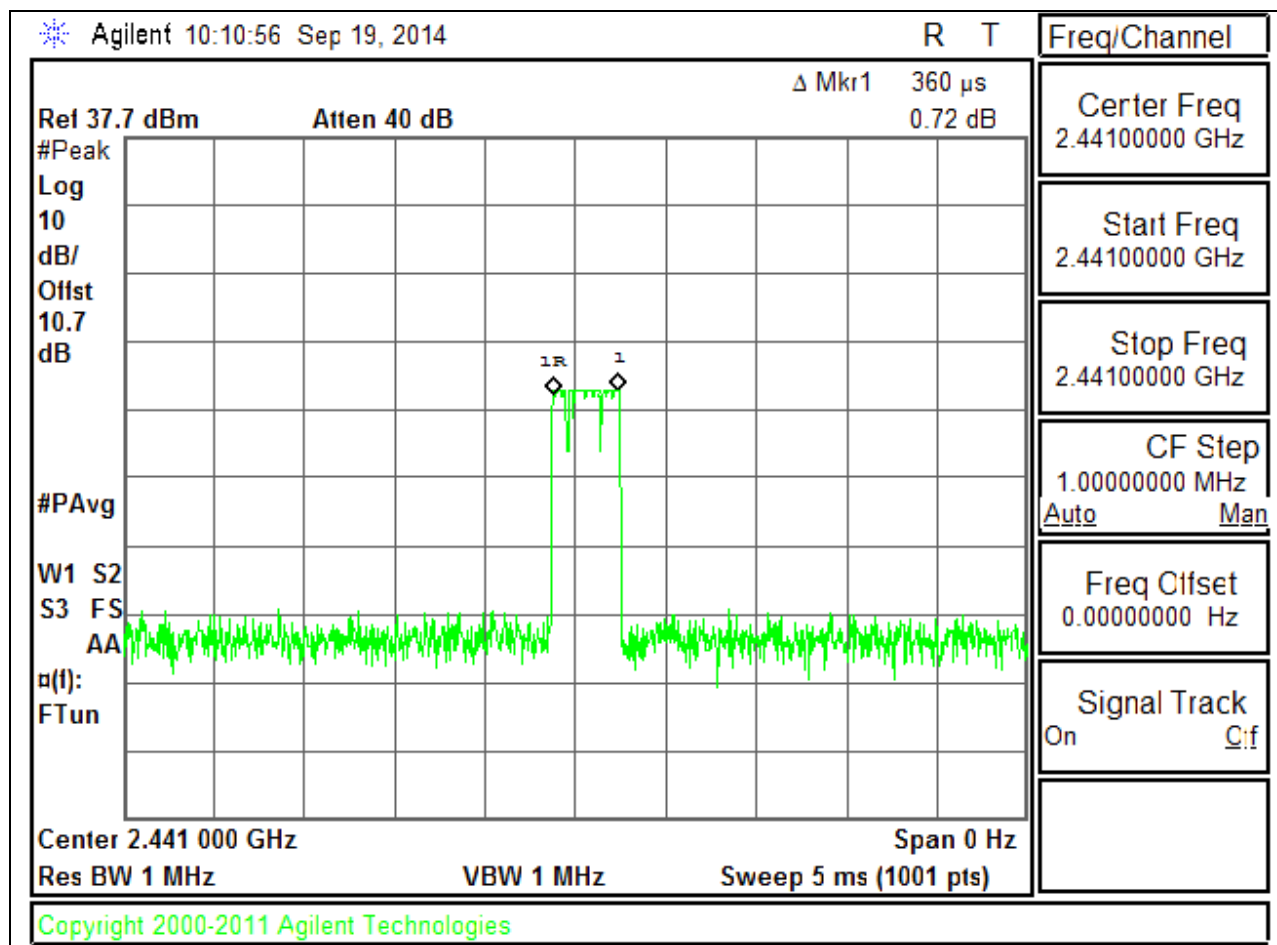
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to $10 * (\# \text{ of pulses in } 0.8 \text{ s}) * \text{pulse width}$.

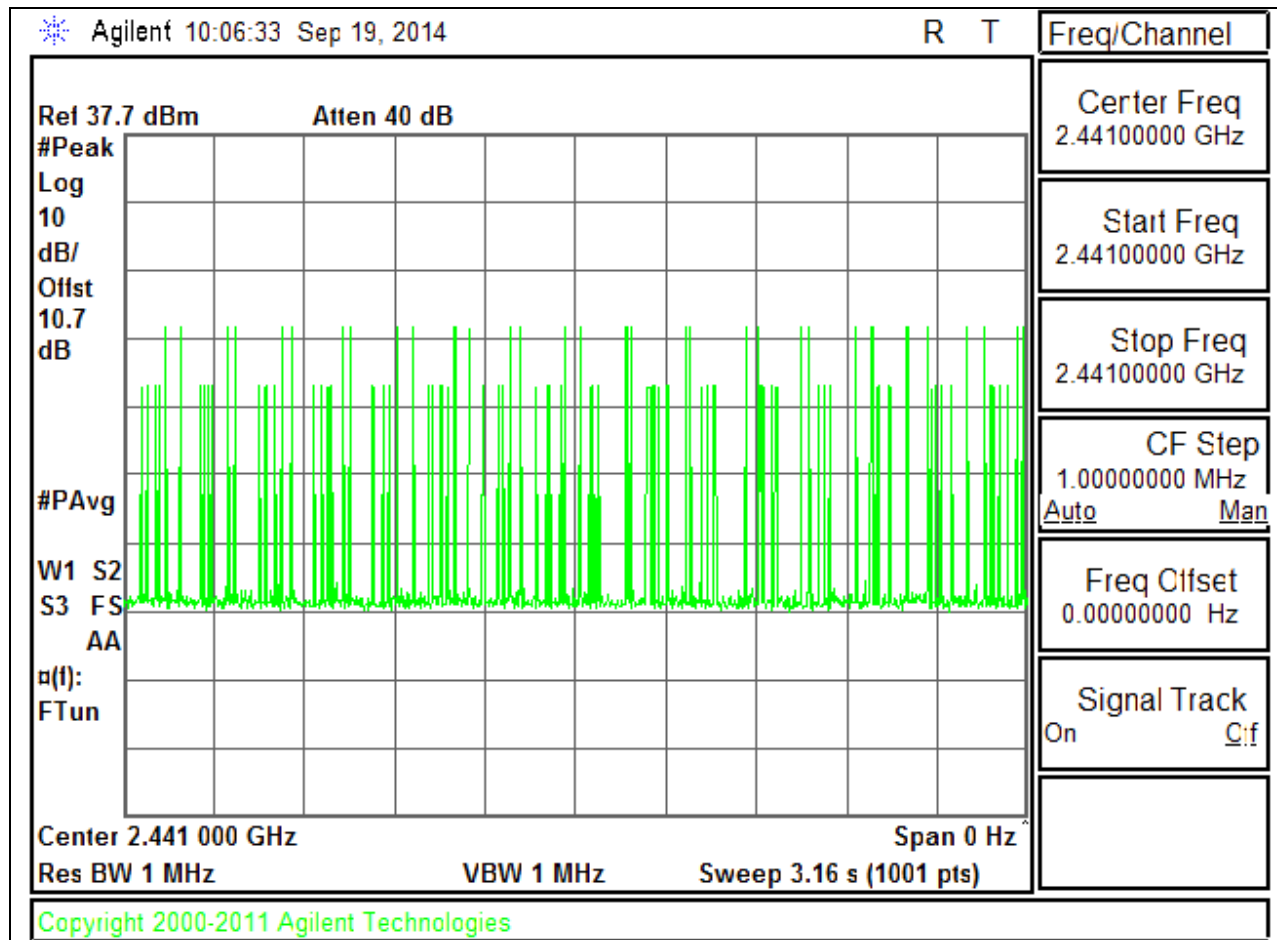
RESULTS

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK Normal Mode					
DH1	0.36	30	0.11	0.4	-0.29
DH3	1.63	16	0.26	0.4	-0.14
DH5	2.88	11	0.32	0.4	-0.08
DH Packet	Pulse Width (msec)	Number of Pulses in 0.8 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK AFH Mode					
DH1	0.36	7.50	0.03	0.4	-0.37
DH3	1.63	4.00	0.07	0.4	-0.34
DH5	2.88	2.75	0.08	0.4	-0.32

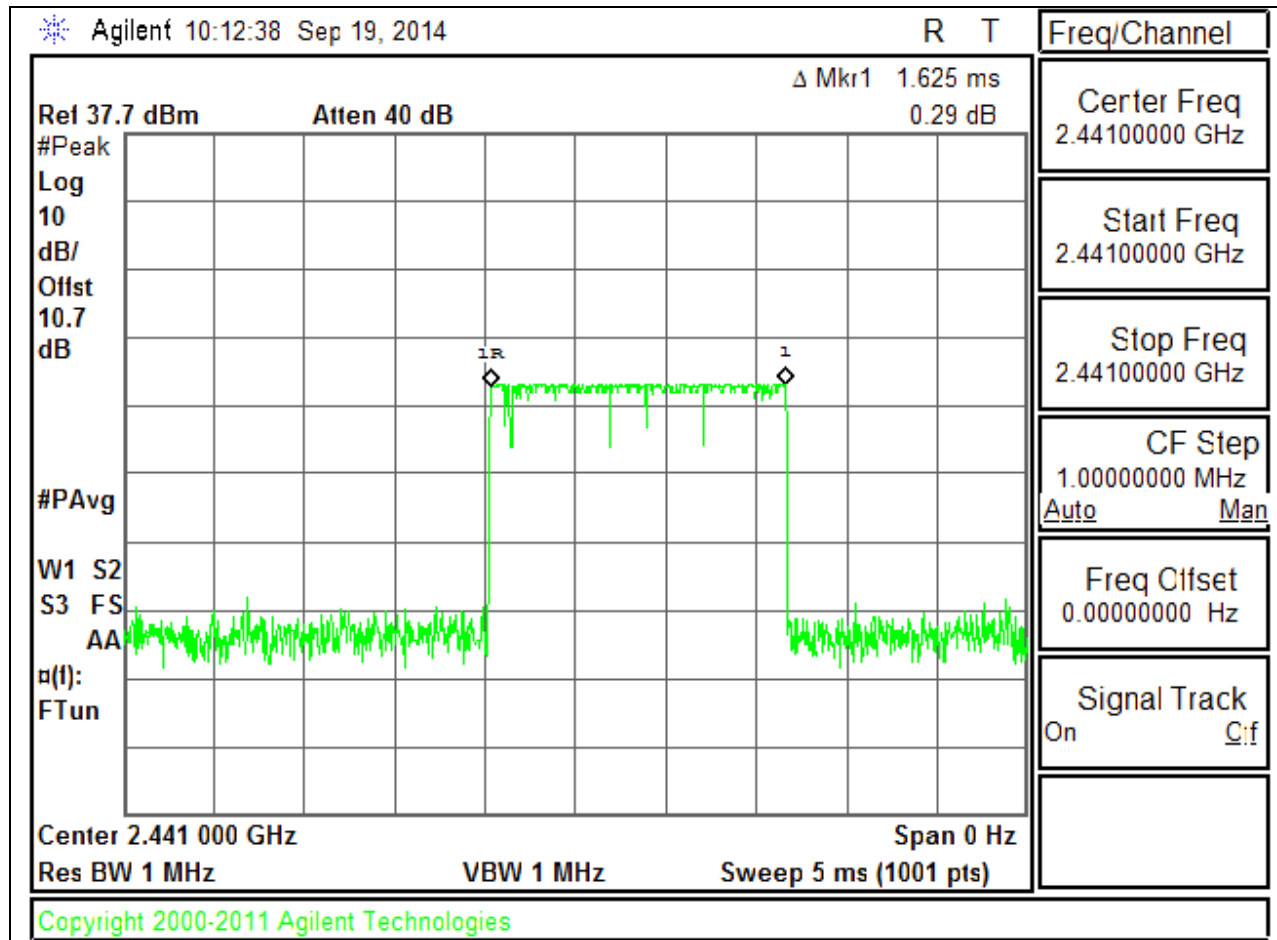
PULSE WIDTH - DH1



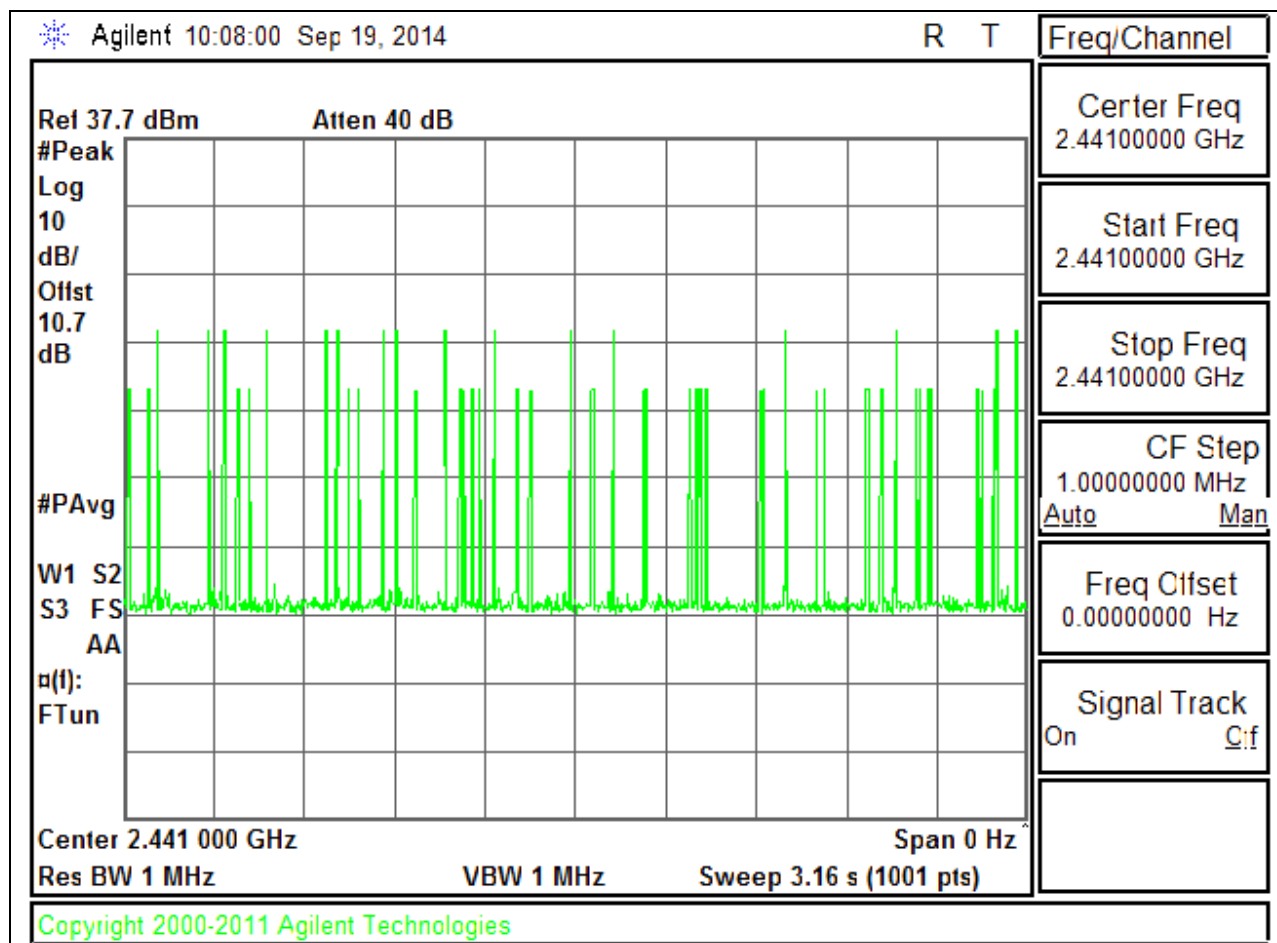
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



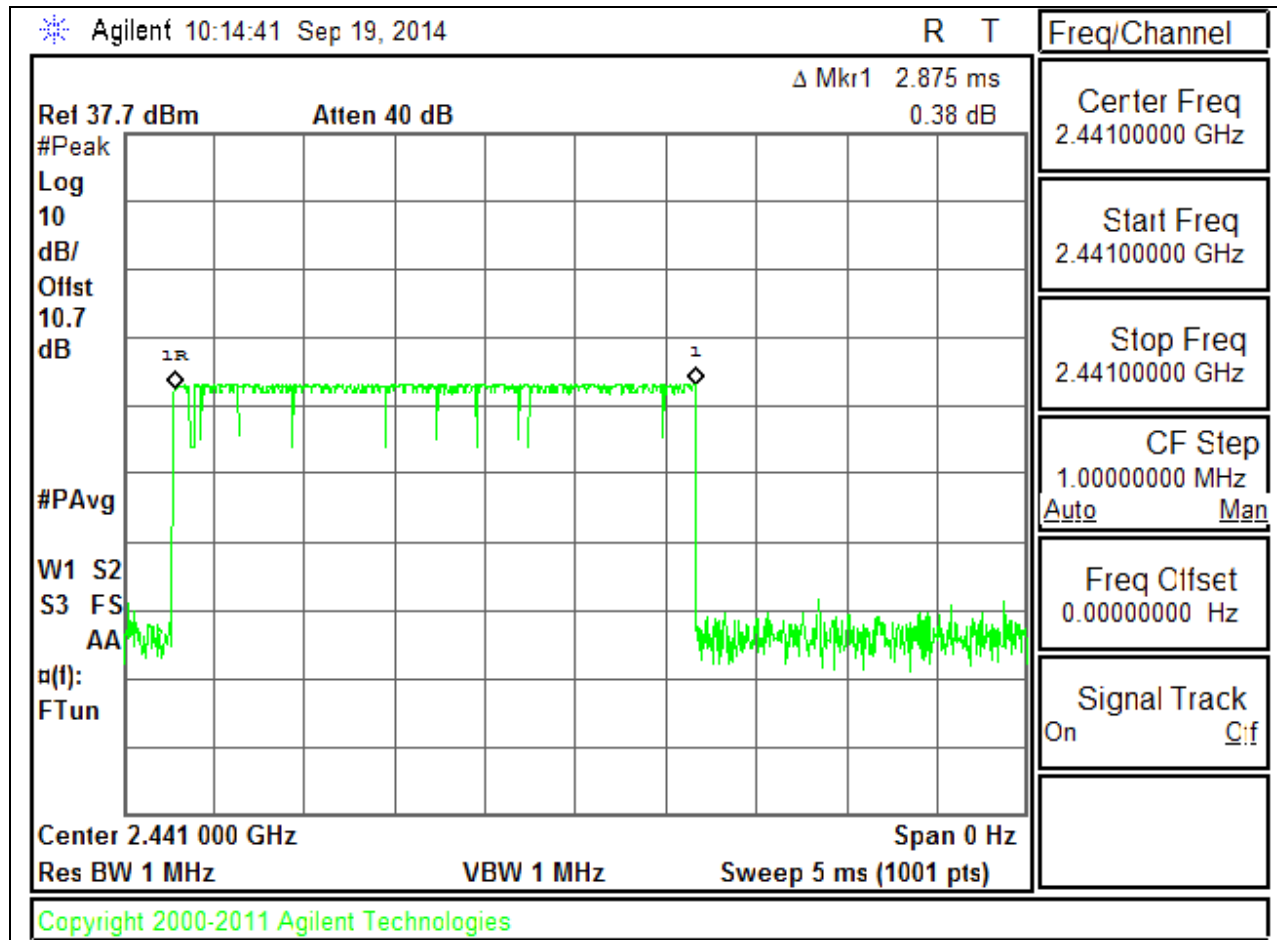
PULSE WIDTH - DH3



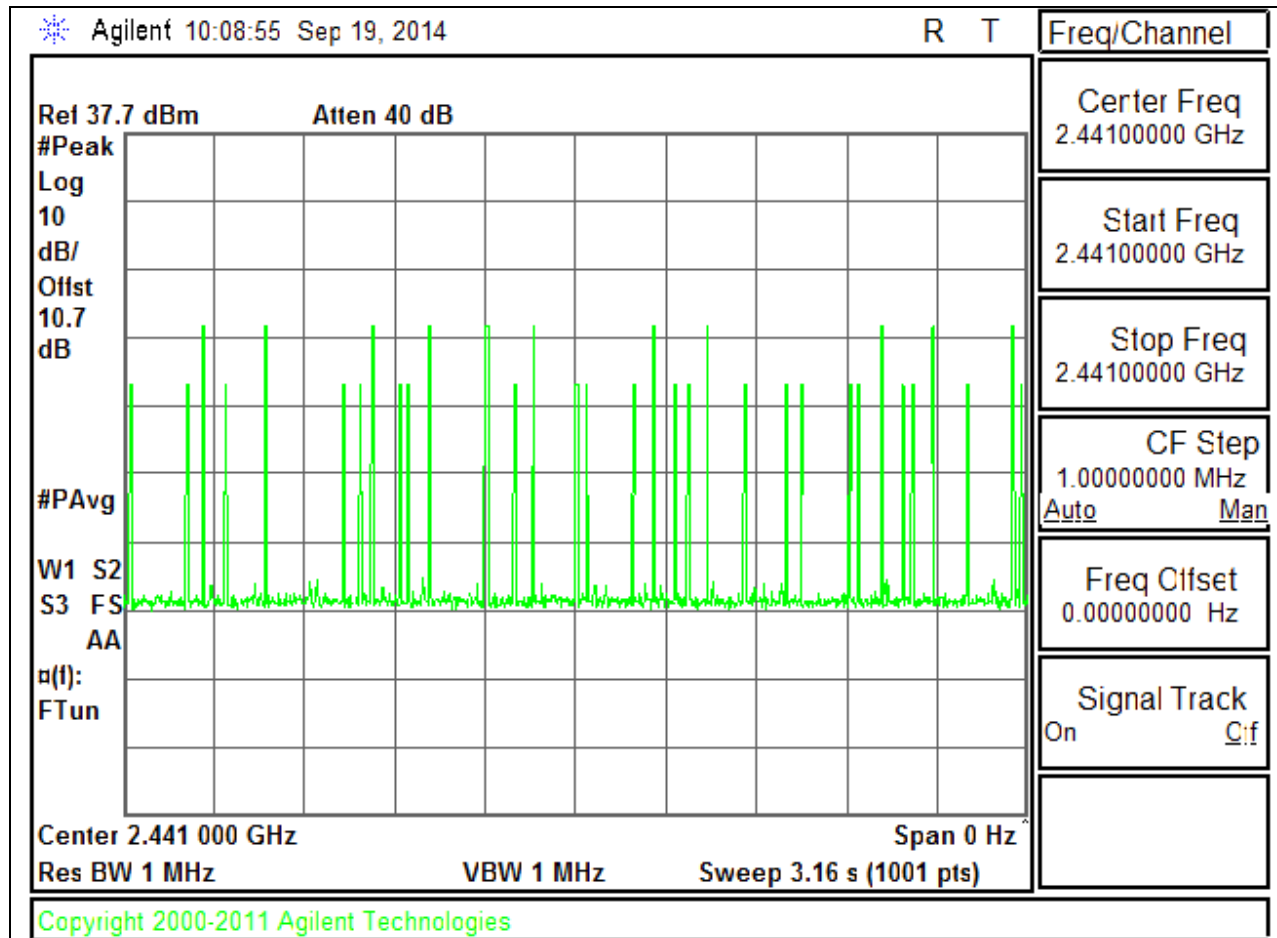
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH3



PULSE WIDTH - DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH5



8.5. OUTPUT POWER

LIMIT

§15.247 (b) (1)

RSS-210 Issue 7 Clause A8.4

The maximum antenna gain is less than 6 dBi, therefore the limit is 21 dBm.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer the analyzer bandwidth is set to a value greater than the 20 dB bandwidth of the EUT.

RESULTS

8.5.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	9.50	21	-11.50
Middle	2441	9.41	21	-11.59
High	2480	9.11	21	-11.89
Worst		9.50		-11.50

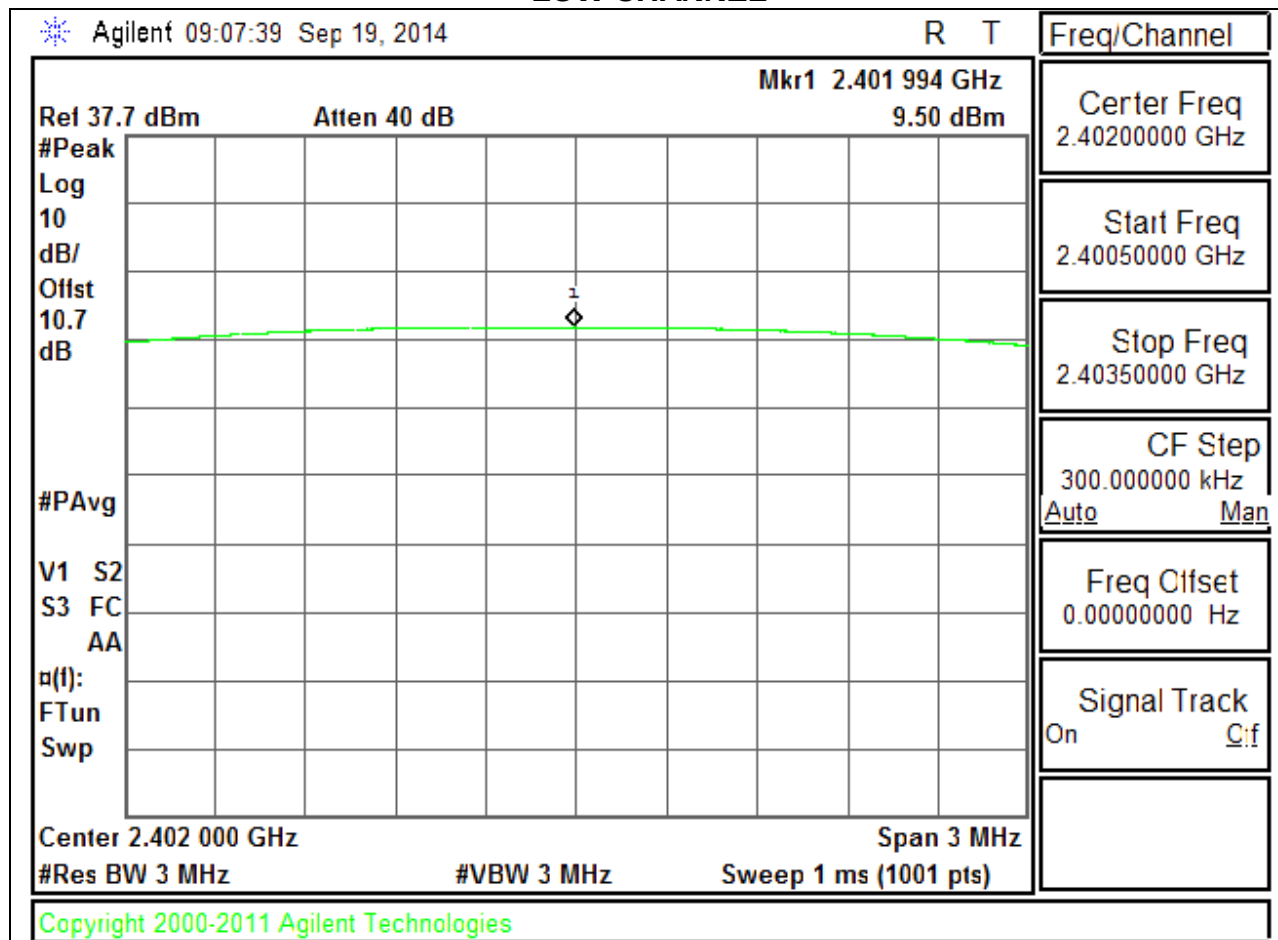
8.5.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	9.34	21	-11.66
Middle	2441	9.24	21	-11.76
High	2480	8.99	21	-12.01
Worst		9.34		-11.66

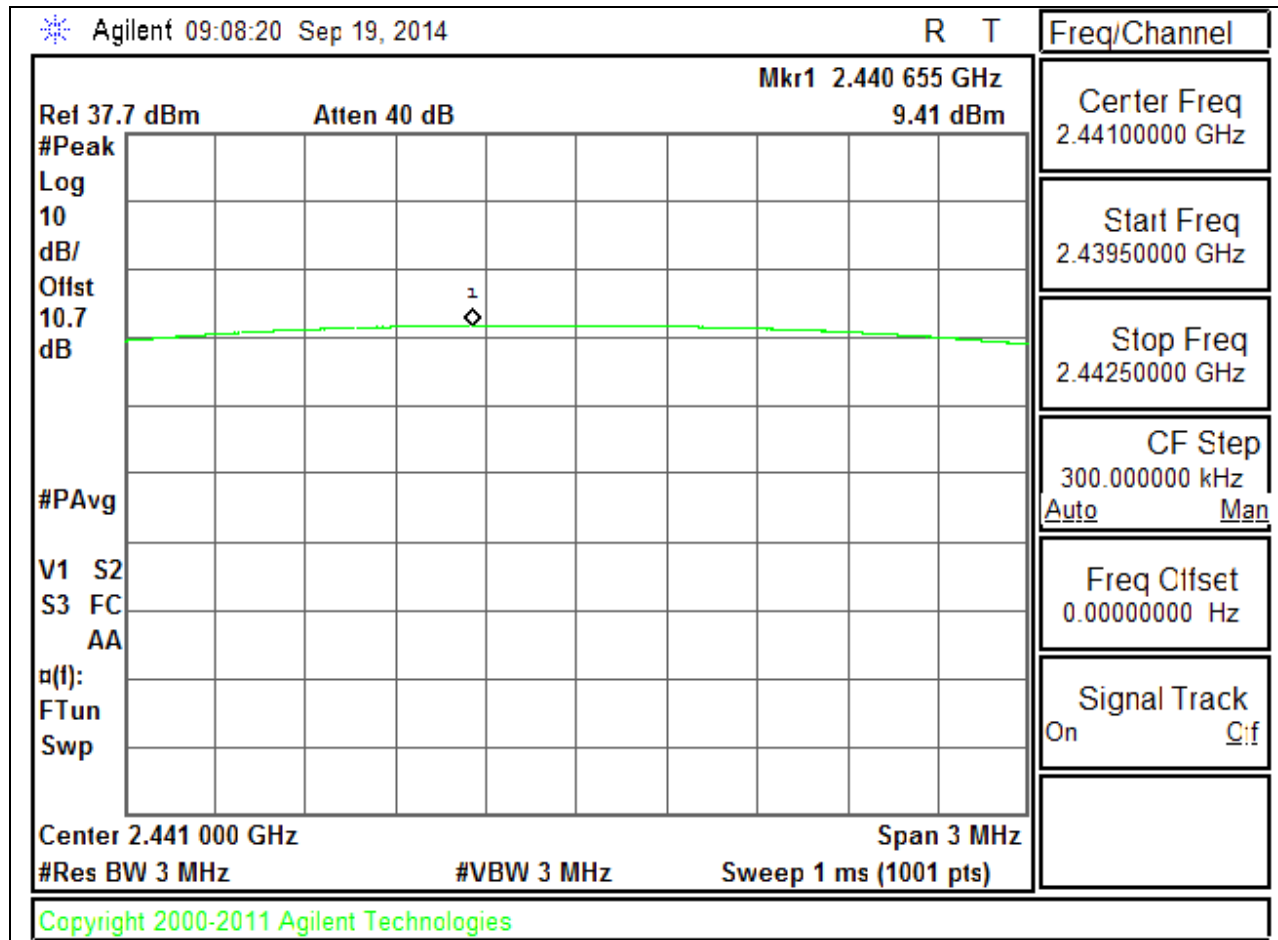
8.5.3. OUTPUT POWER PLOTS

GFSK OUTPUT POWER

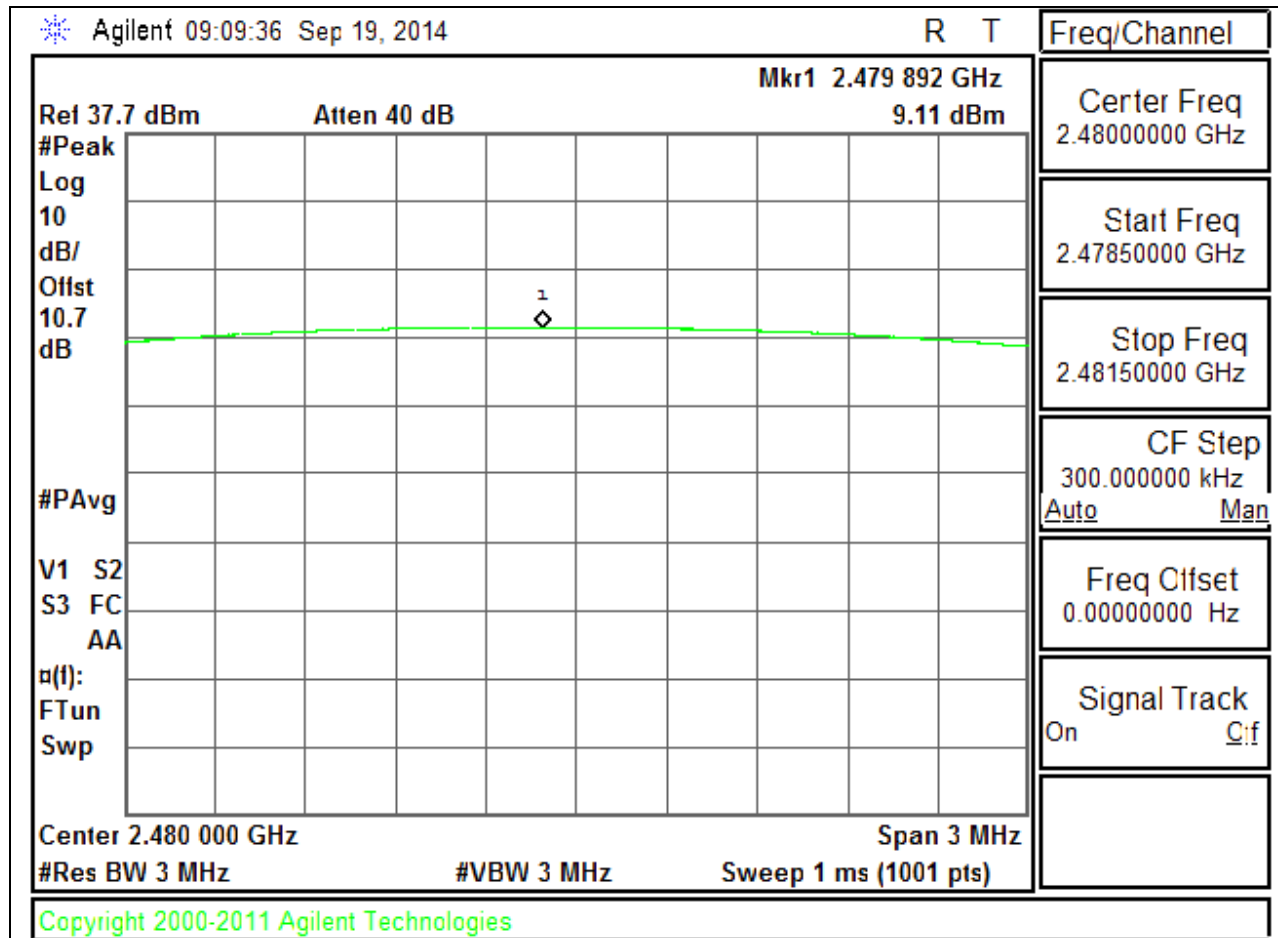
LOW CHANNEL



MID CHANNEL

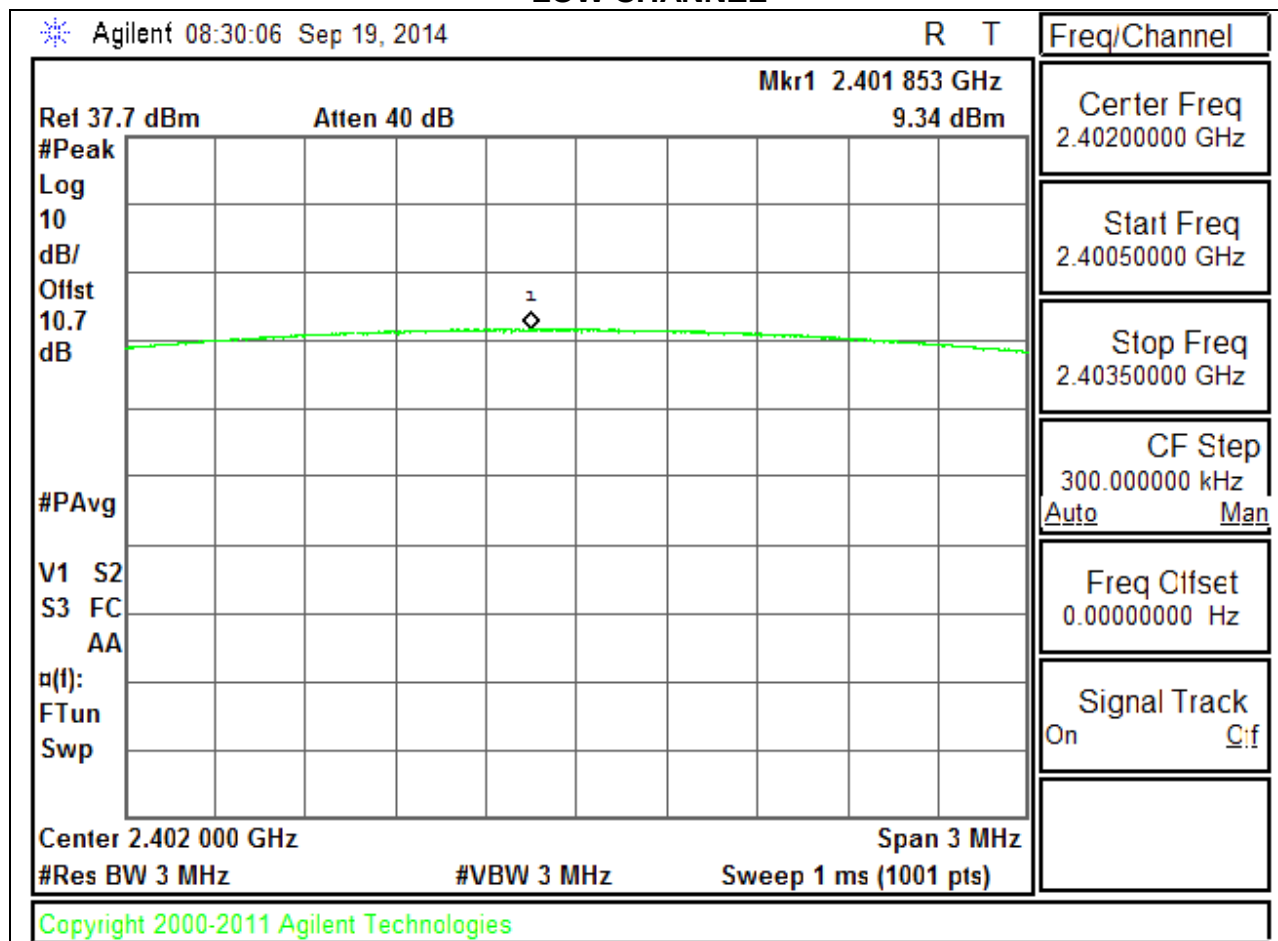


HIGH CHANNEL

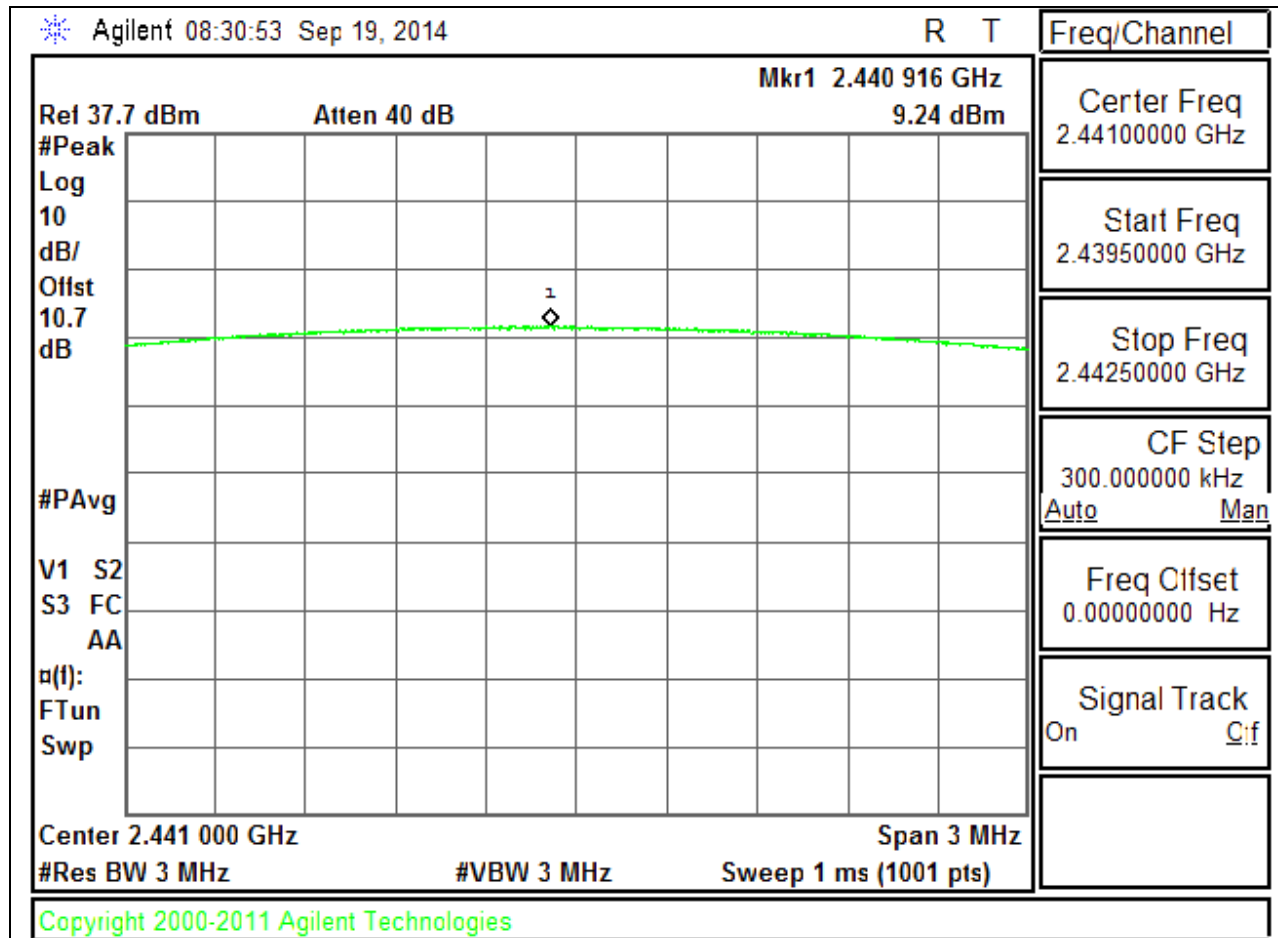


8PSK OUTPUT POWER

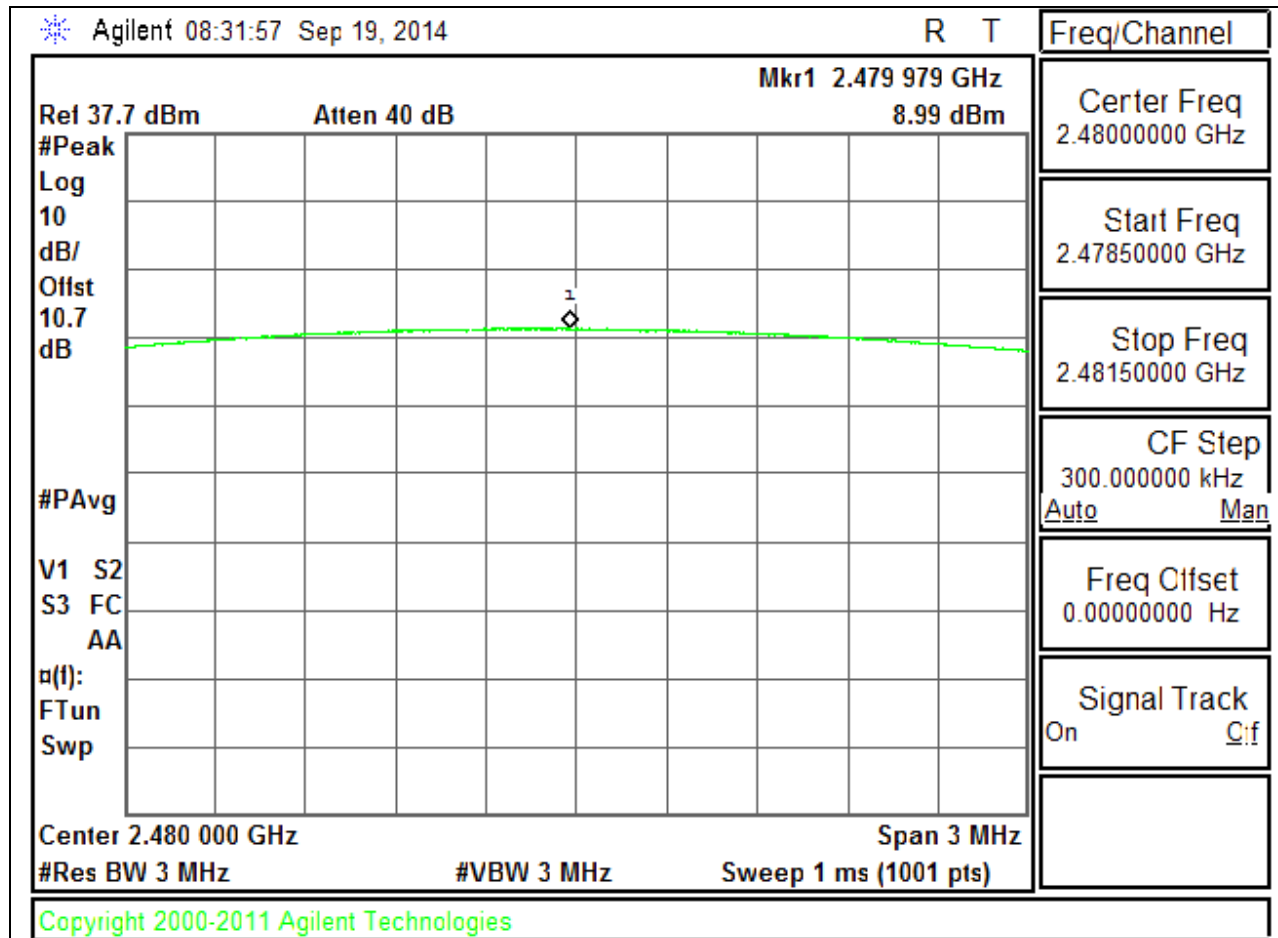
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.6. AVERAGE POWER

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.7 dB (including 10 dB pad and 0.7 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

8.6.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	7.6
Middle	2441	7.5
High	2480	7.3
Worst		7.6

8.6.2. DATA RATE PI/4-DQPSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	4.40
Middle	2441	4.20
High	2480	4.20
Worst		4.40

8.6.3. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	4.4
Middle	2441	4.3
High	2480	4.2
Worst		4.4

8.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

Limit = -20 dBc

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

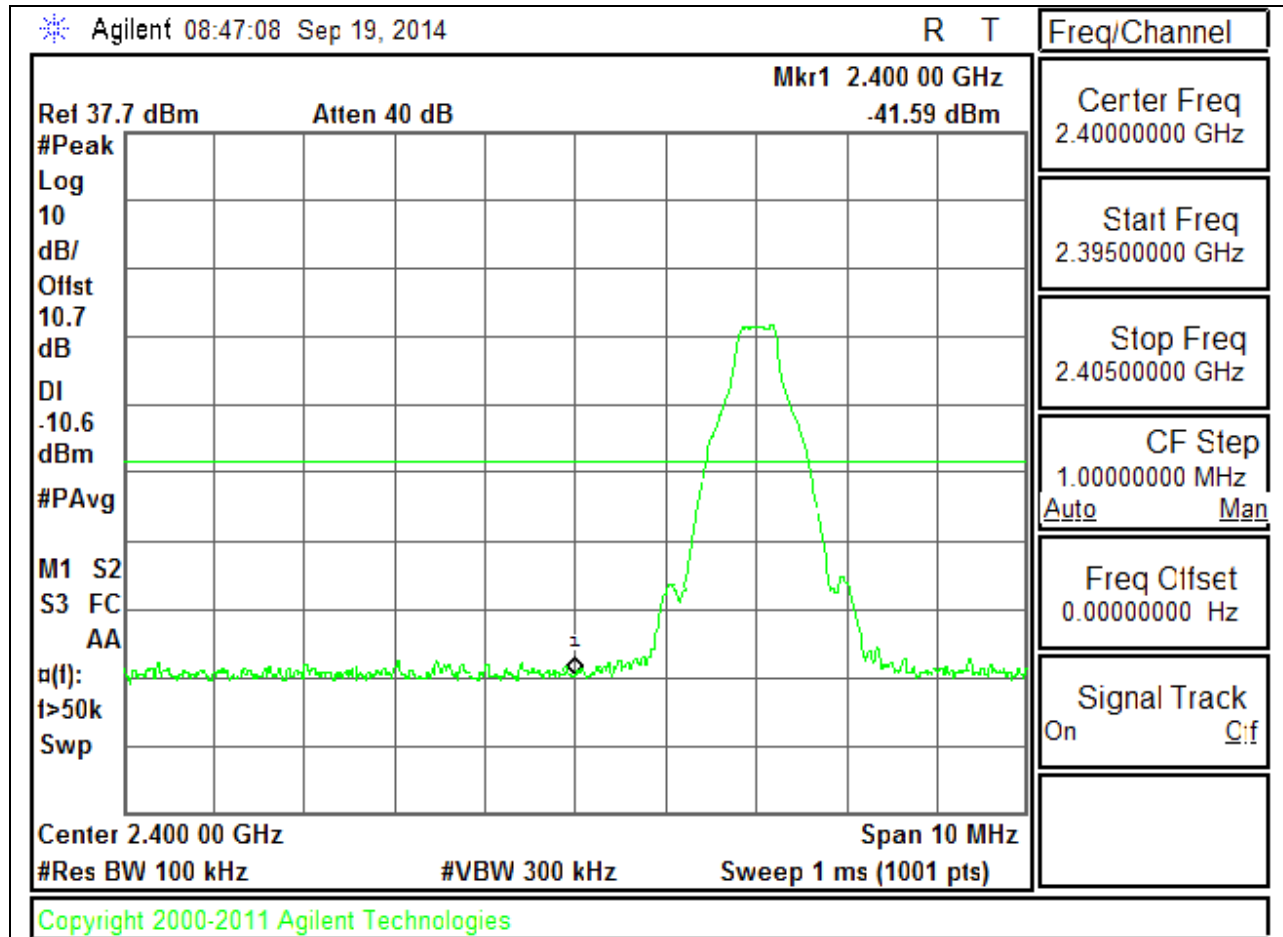
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

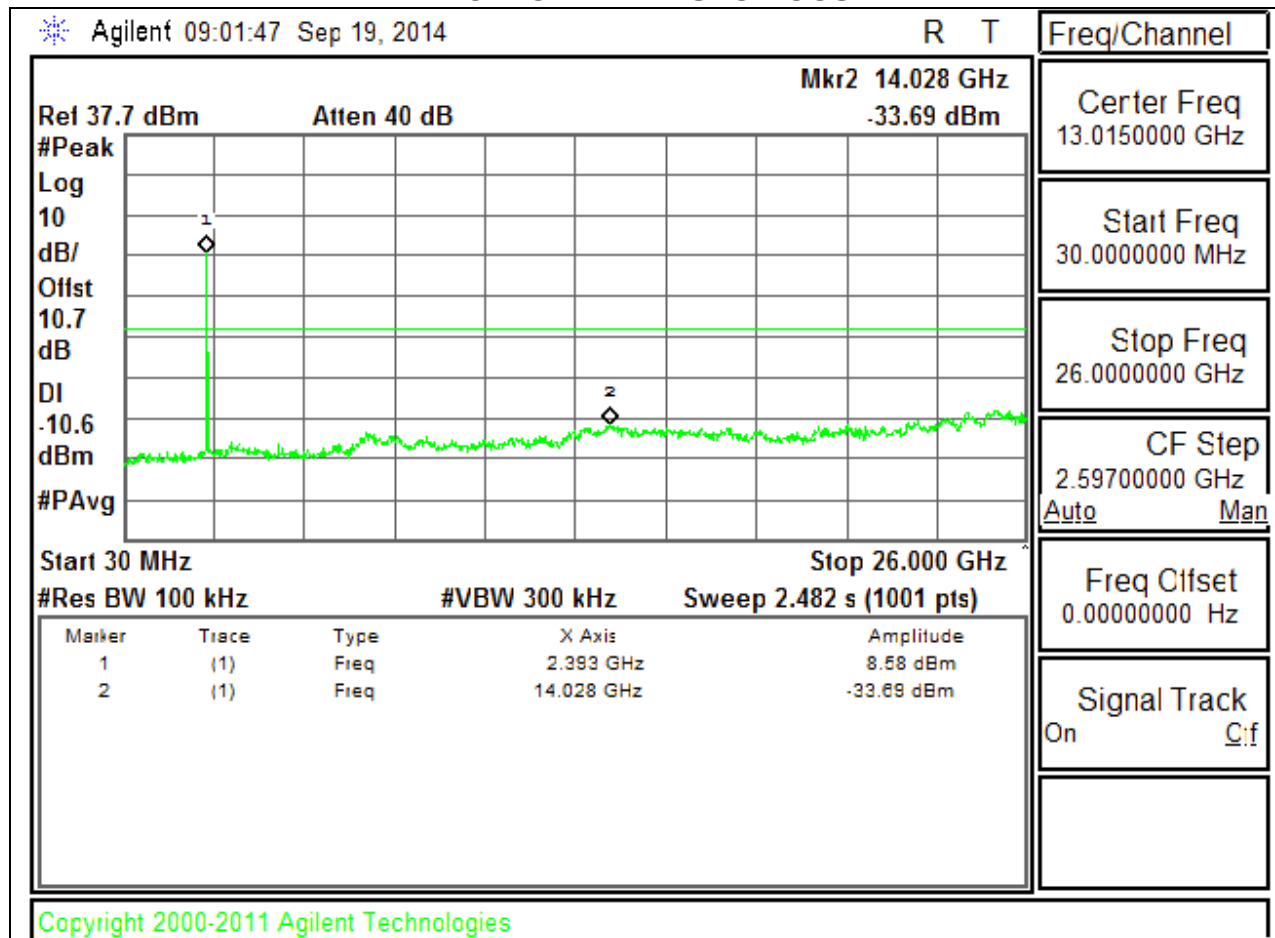
8.7.1. BASIC DATA RATE GFSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

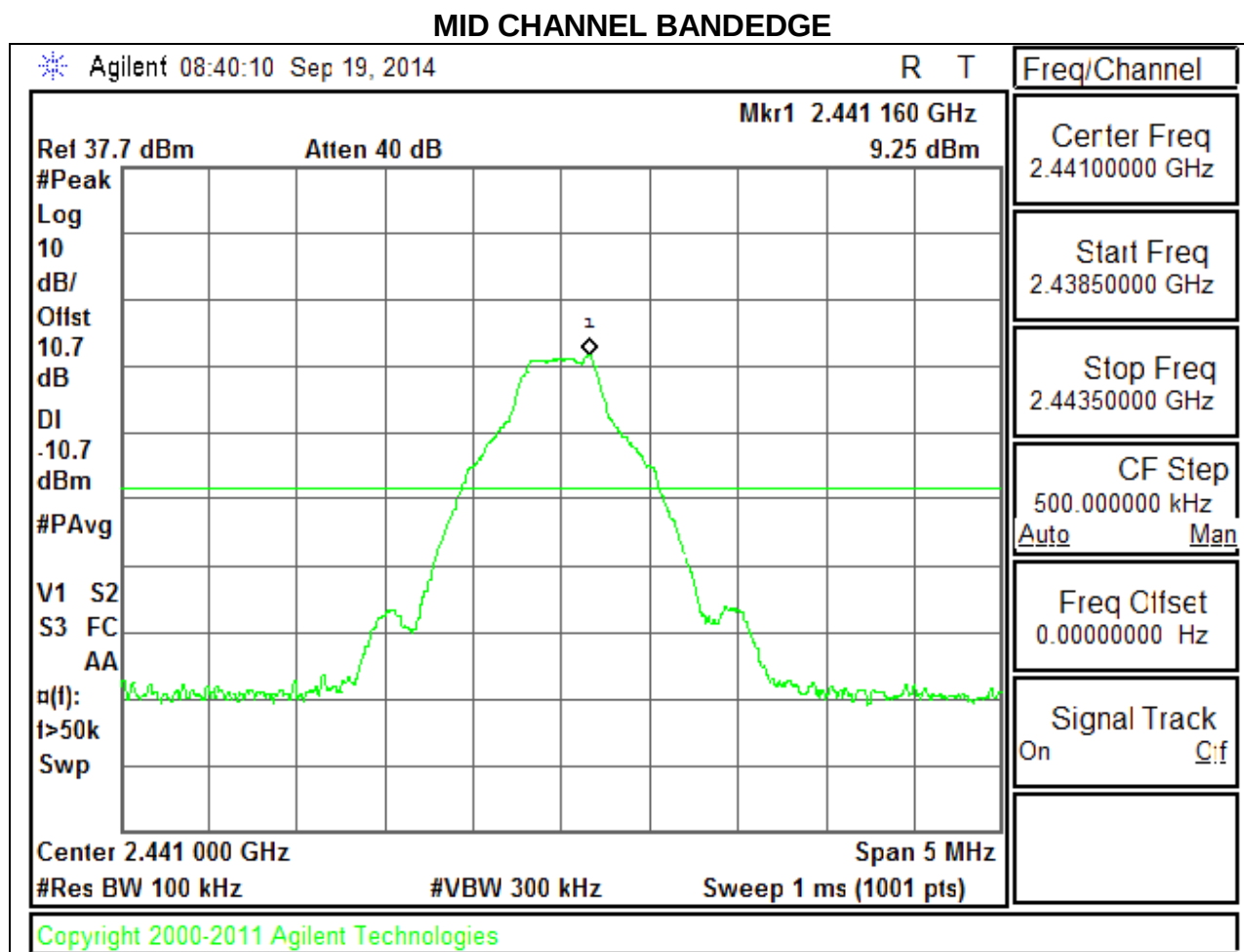
LOW CHANNEL BANDEDGE



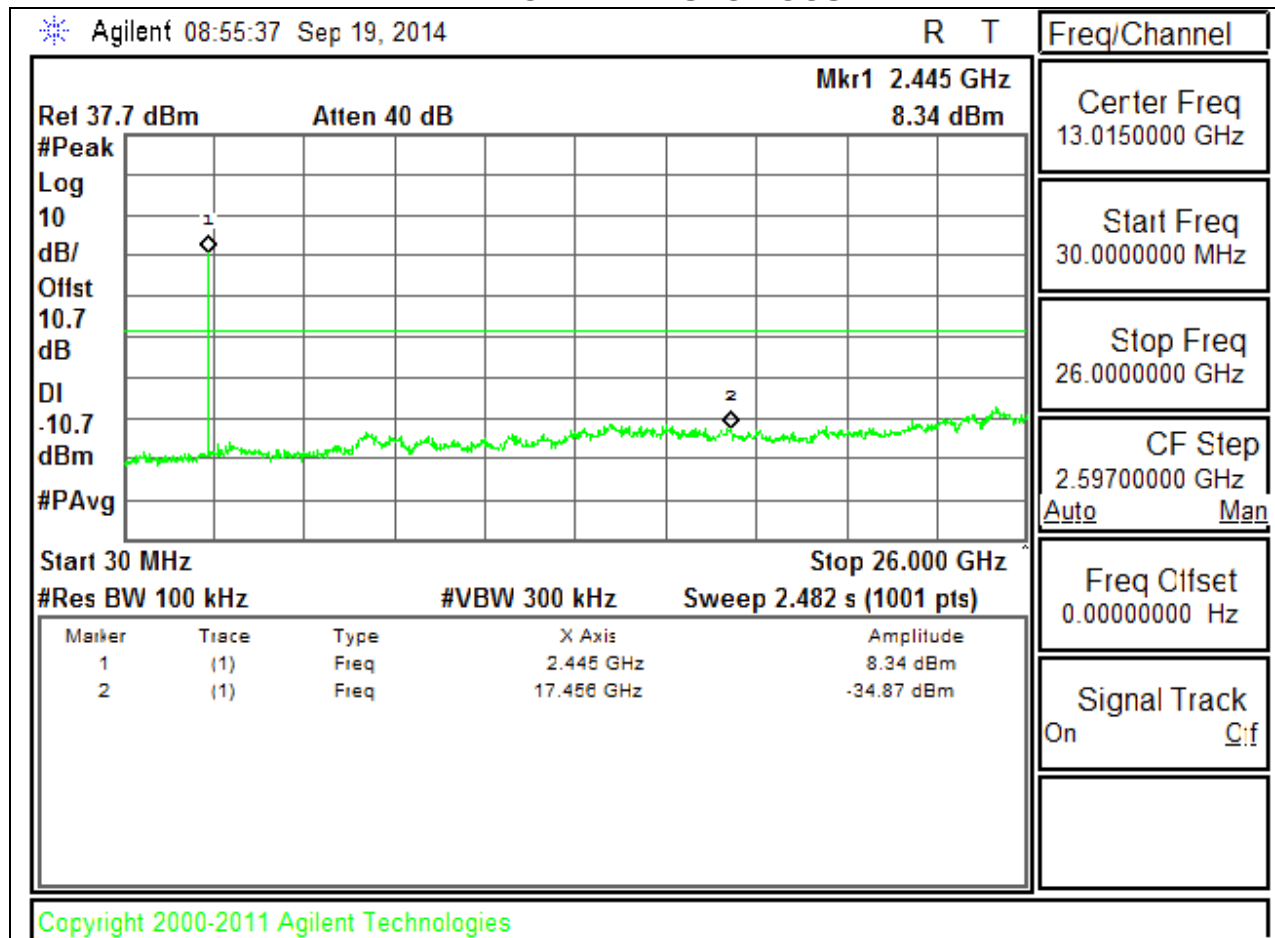
LOW CHANNEL SPURIOUS



SPURIOUS EMISSIONS, MID CHANNEL

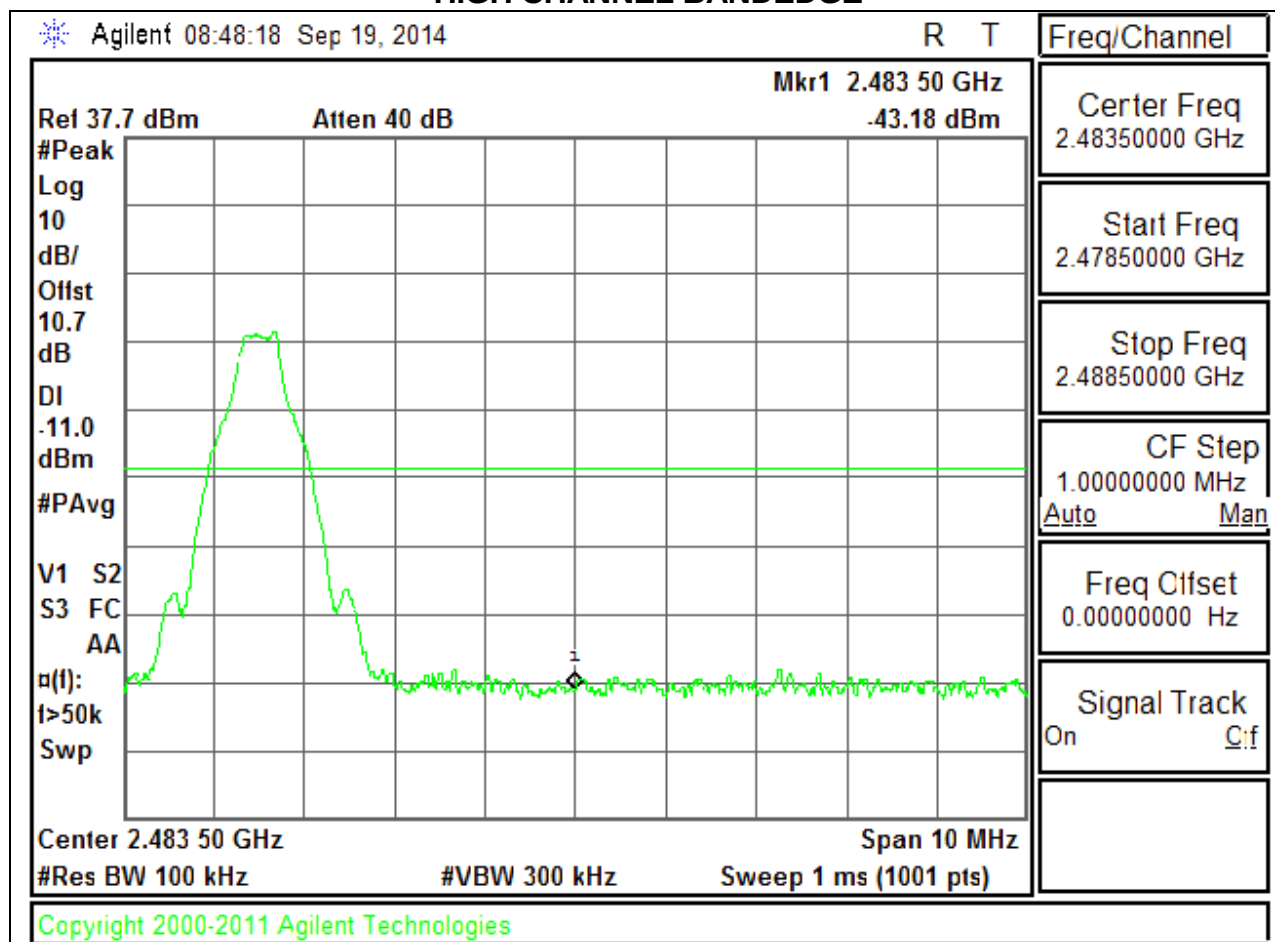


MID CHANNEL SPURIOUS

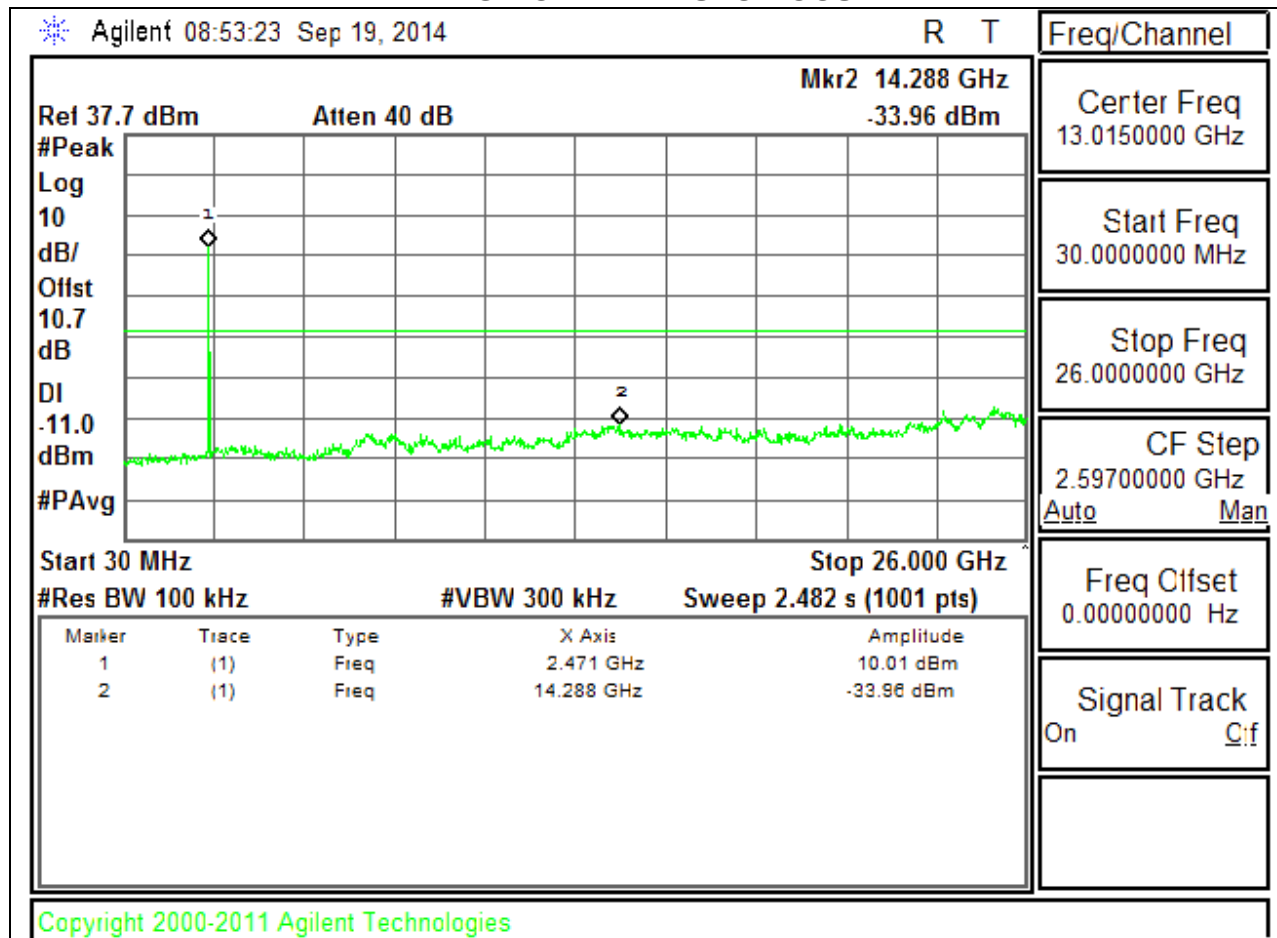


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CHANNEL BANDEDGE

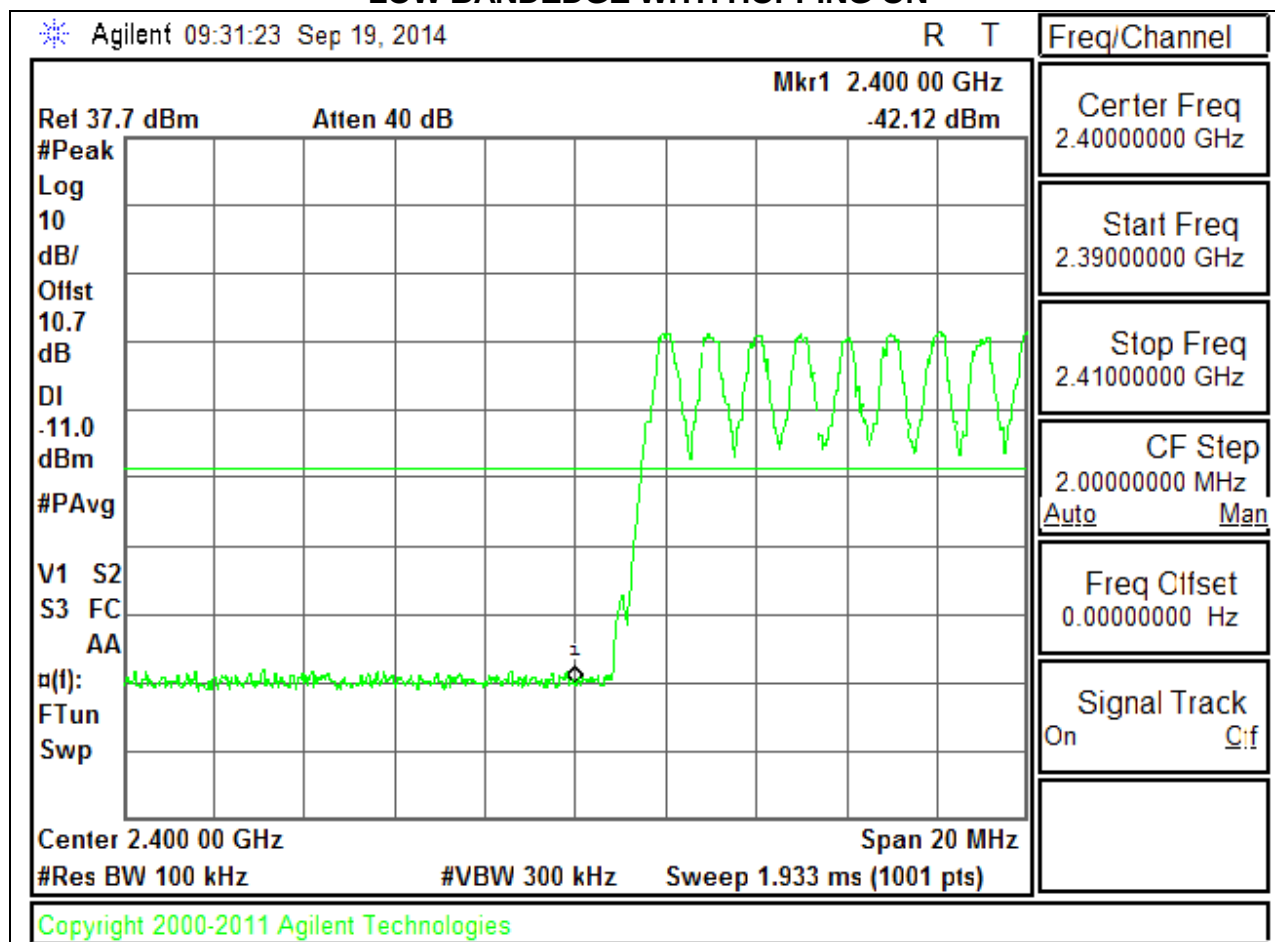


HIGH CHANNEL SPURIOUS

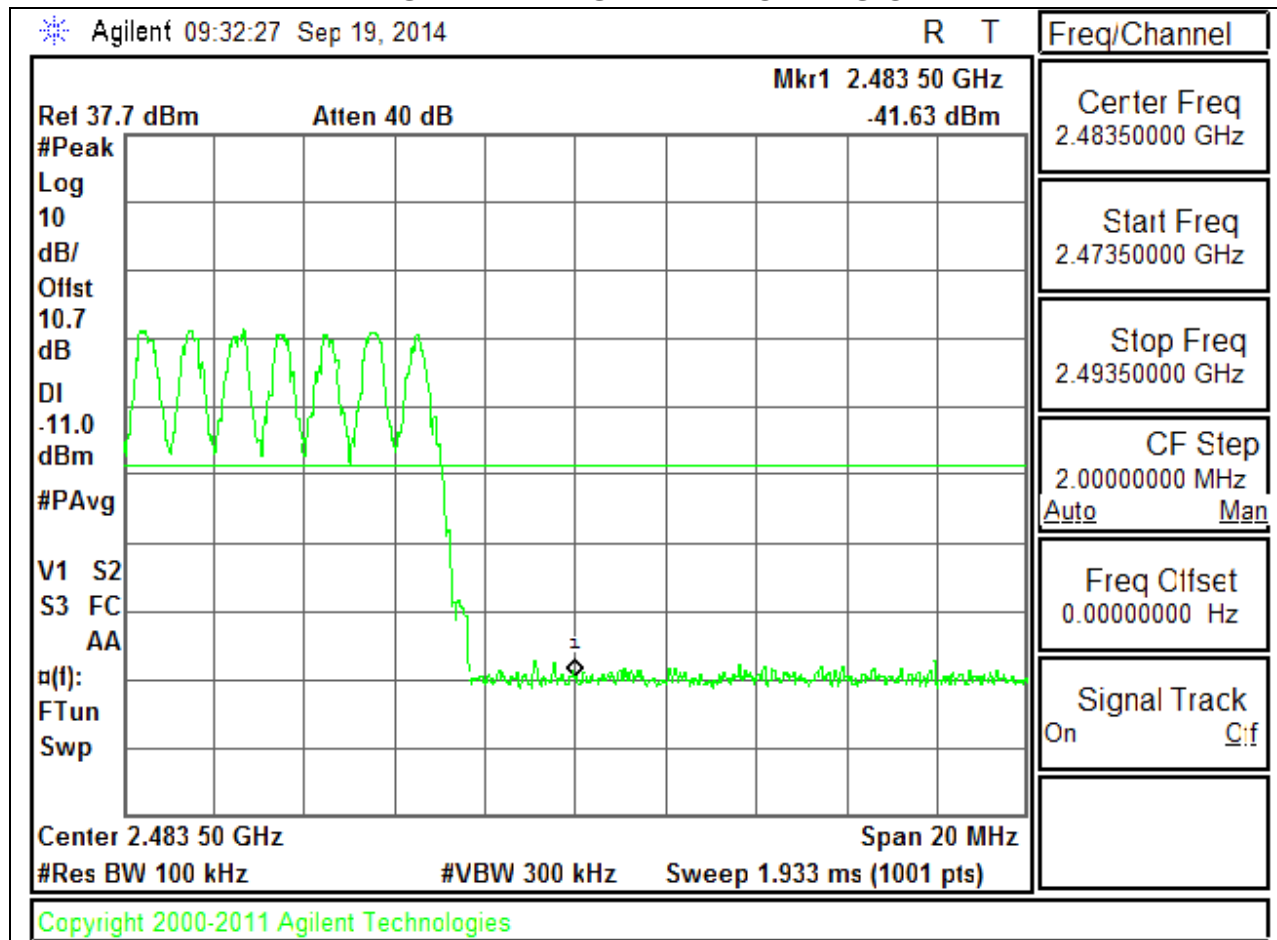


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE WITH HOPPING ON



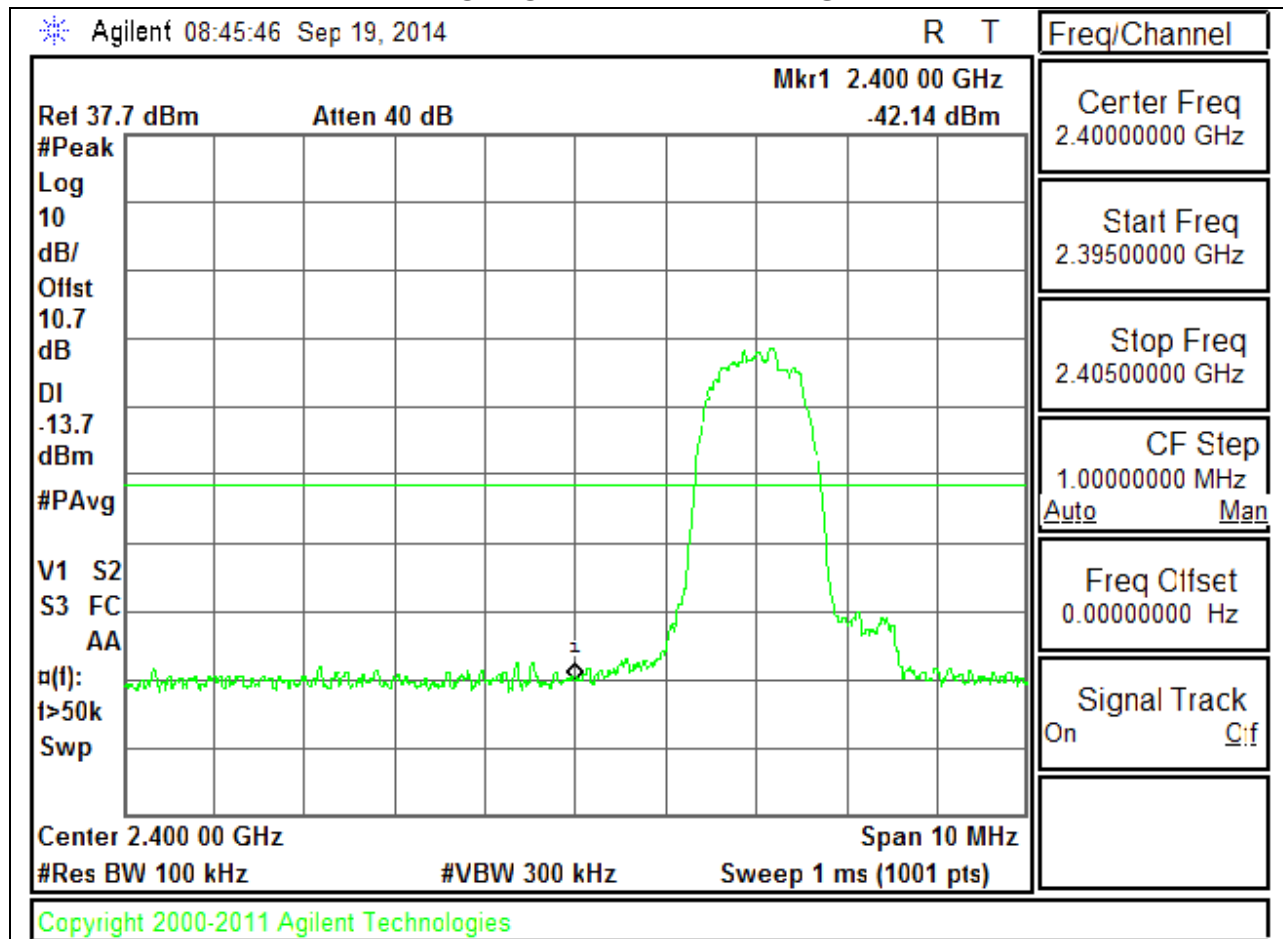
HIGH BANDEDGE WITH HOPPING ON



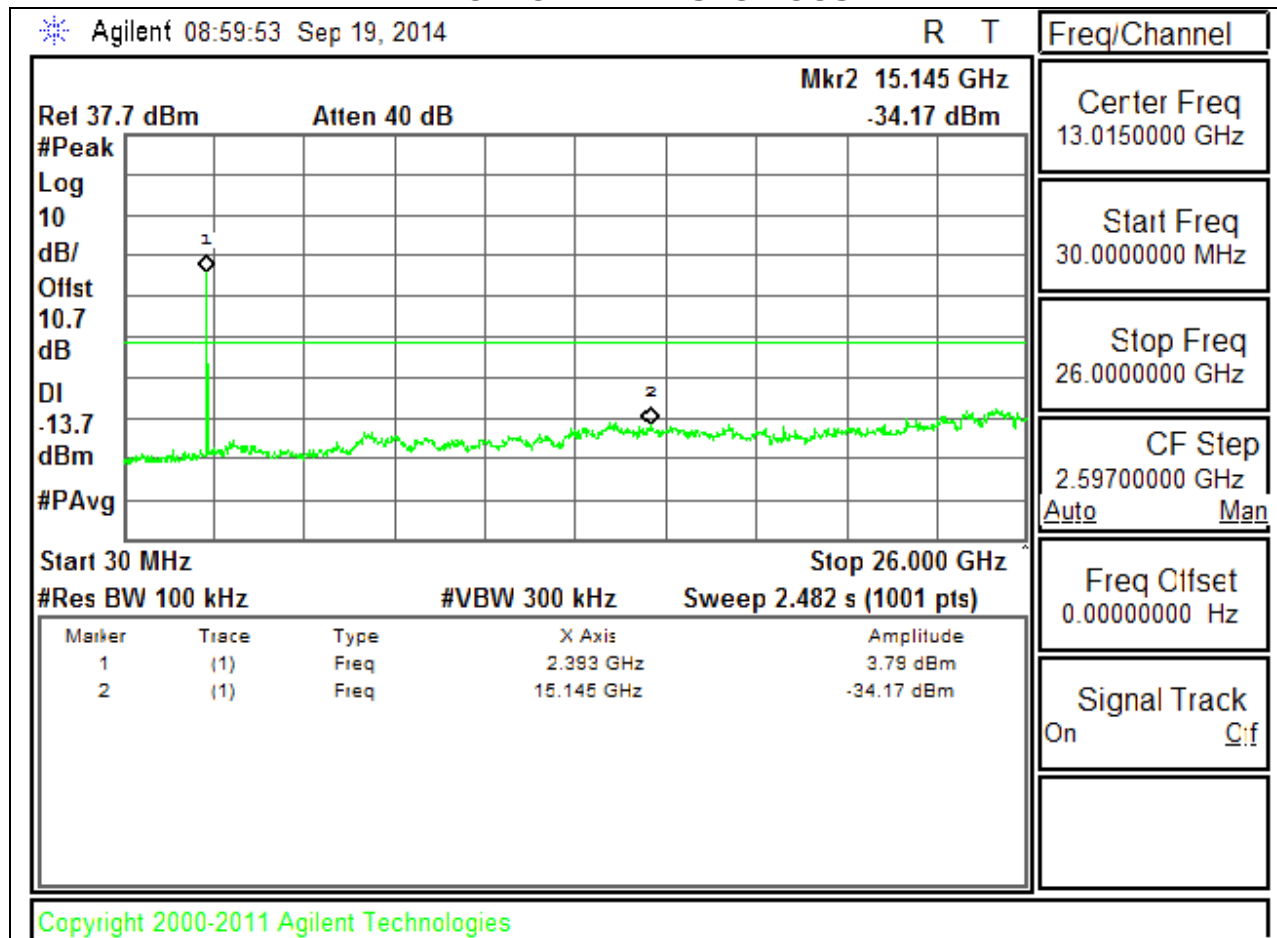
ENHANCED DATA RATE 8PSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

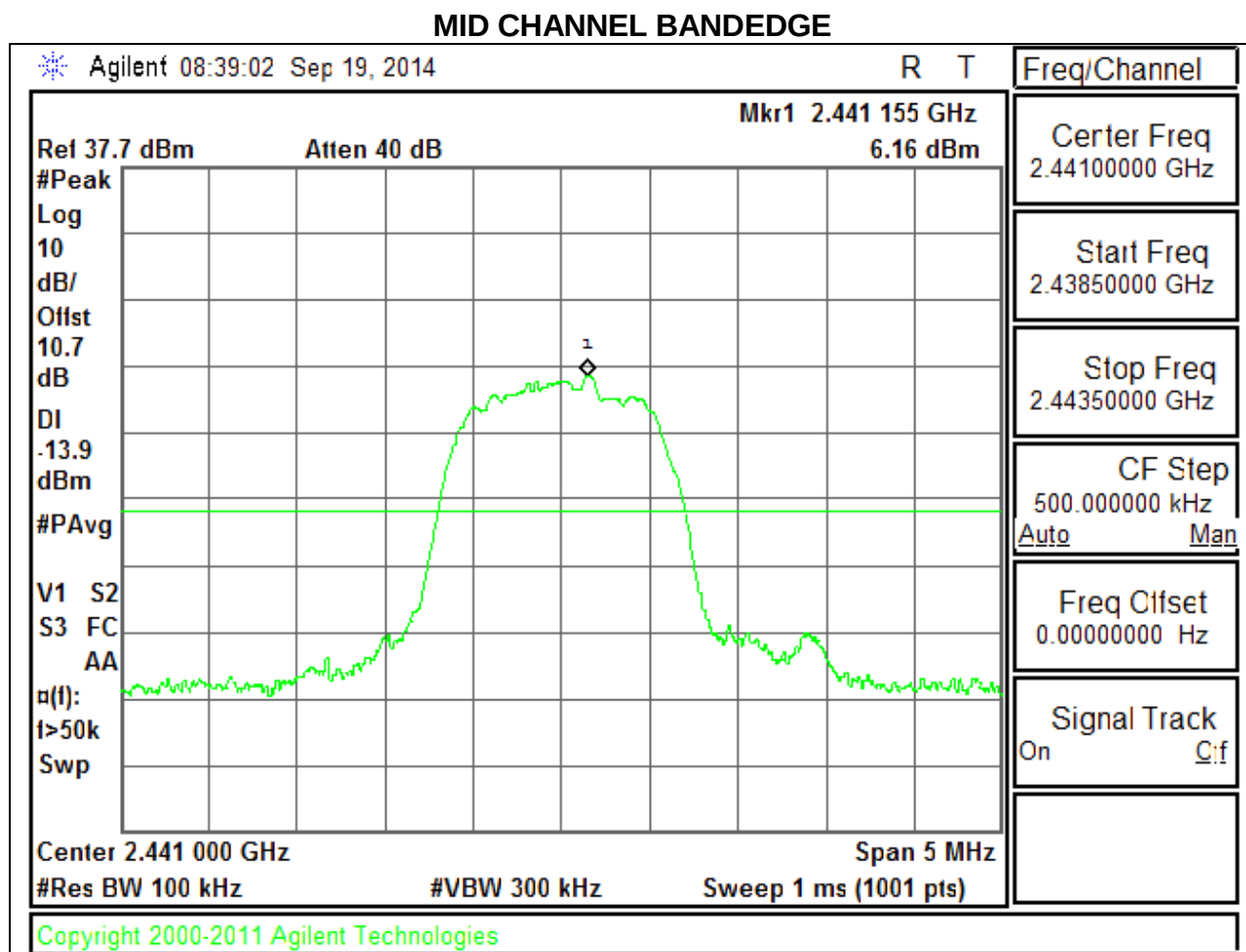
LOW CHANNEL BANDEDGE



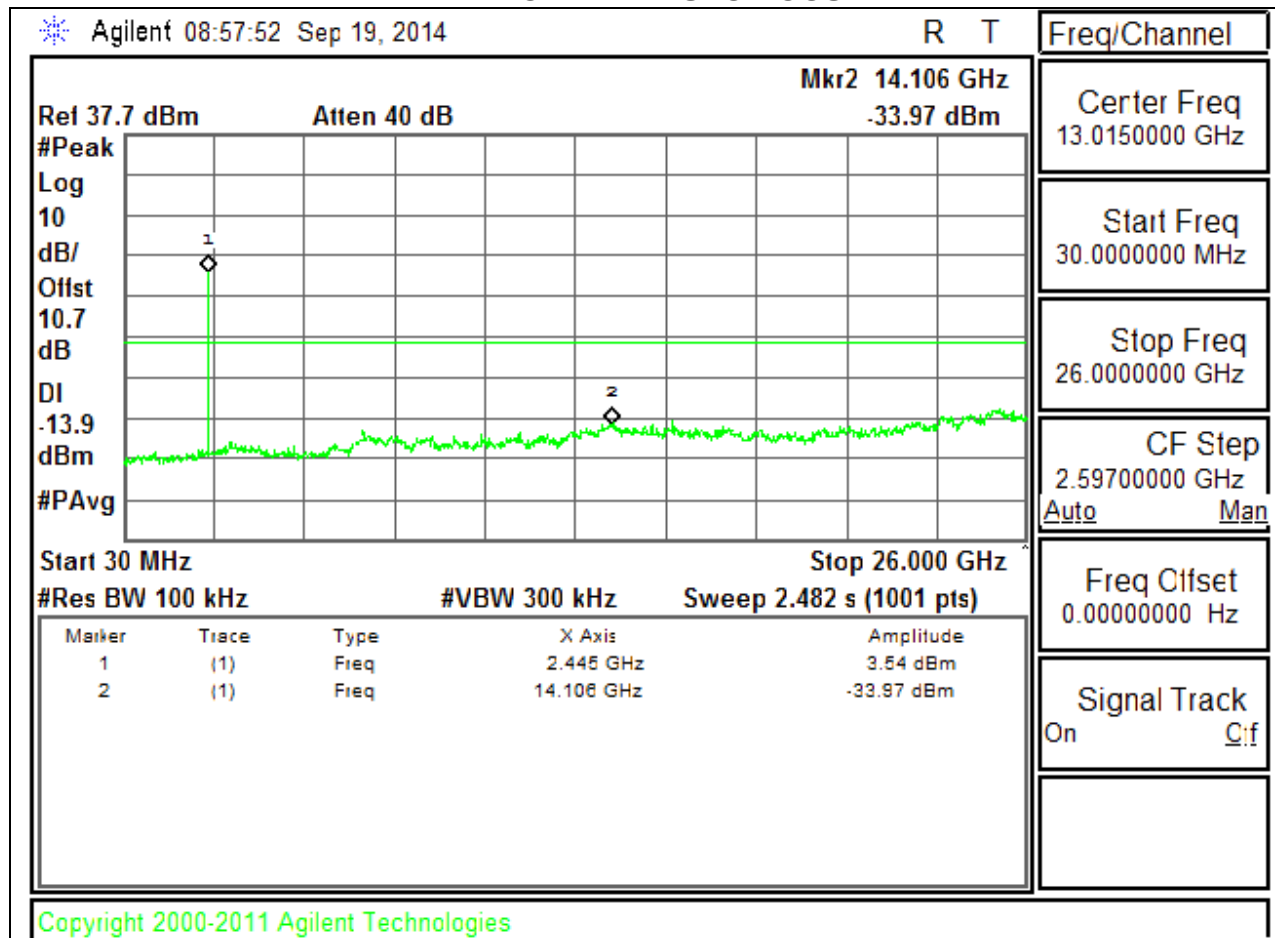
LOW CHANNEL SPURIOUS



SPURIOUS EMISSIONS, MID CHANNEL

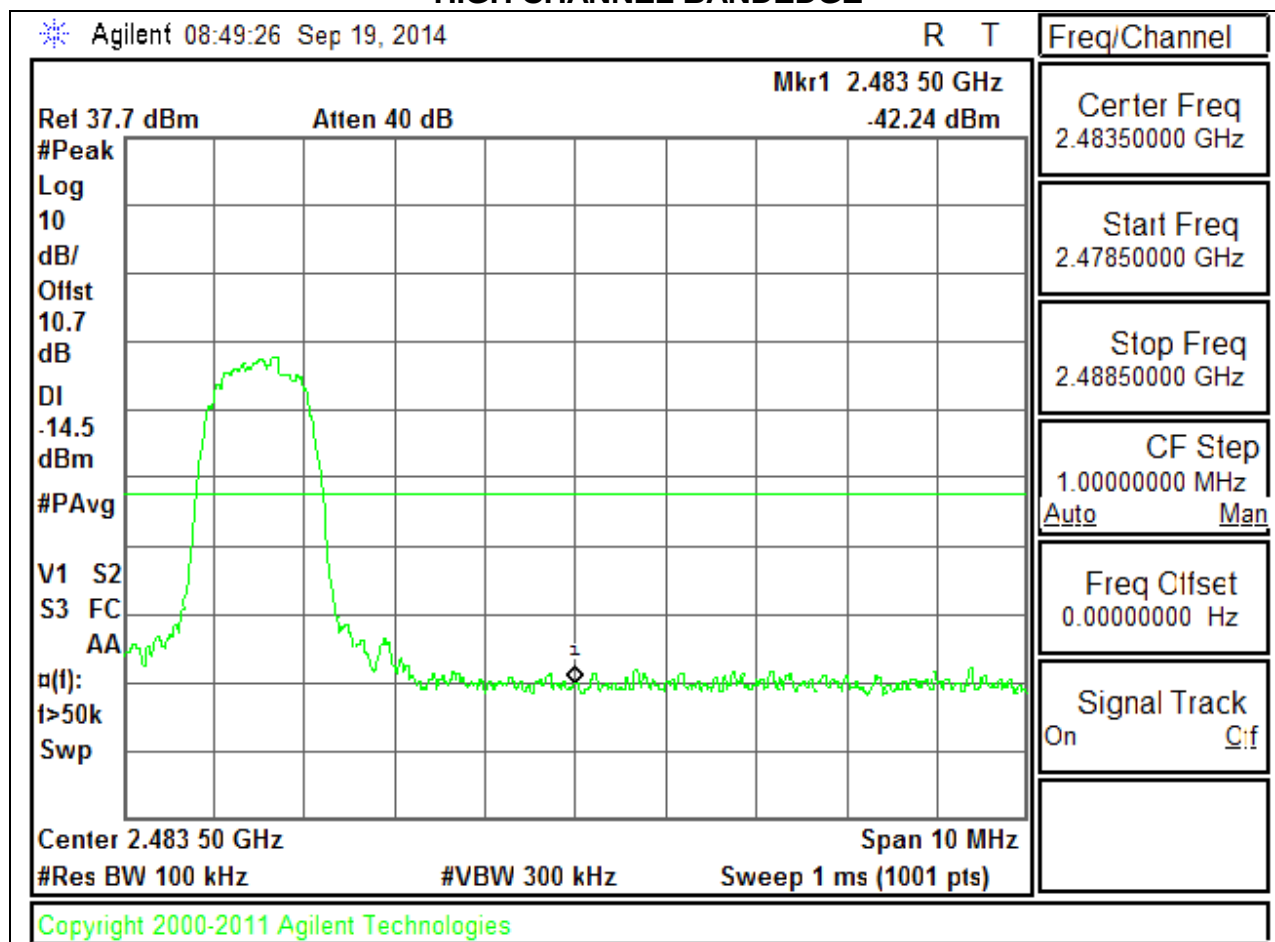


MID CHANNEL SPURIOUS

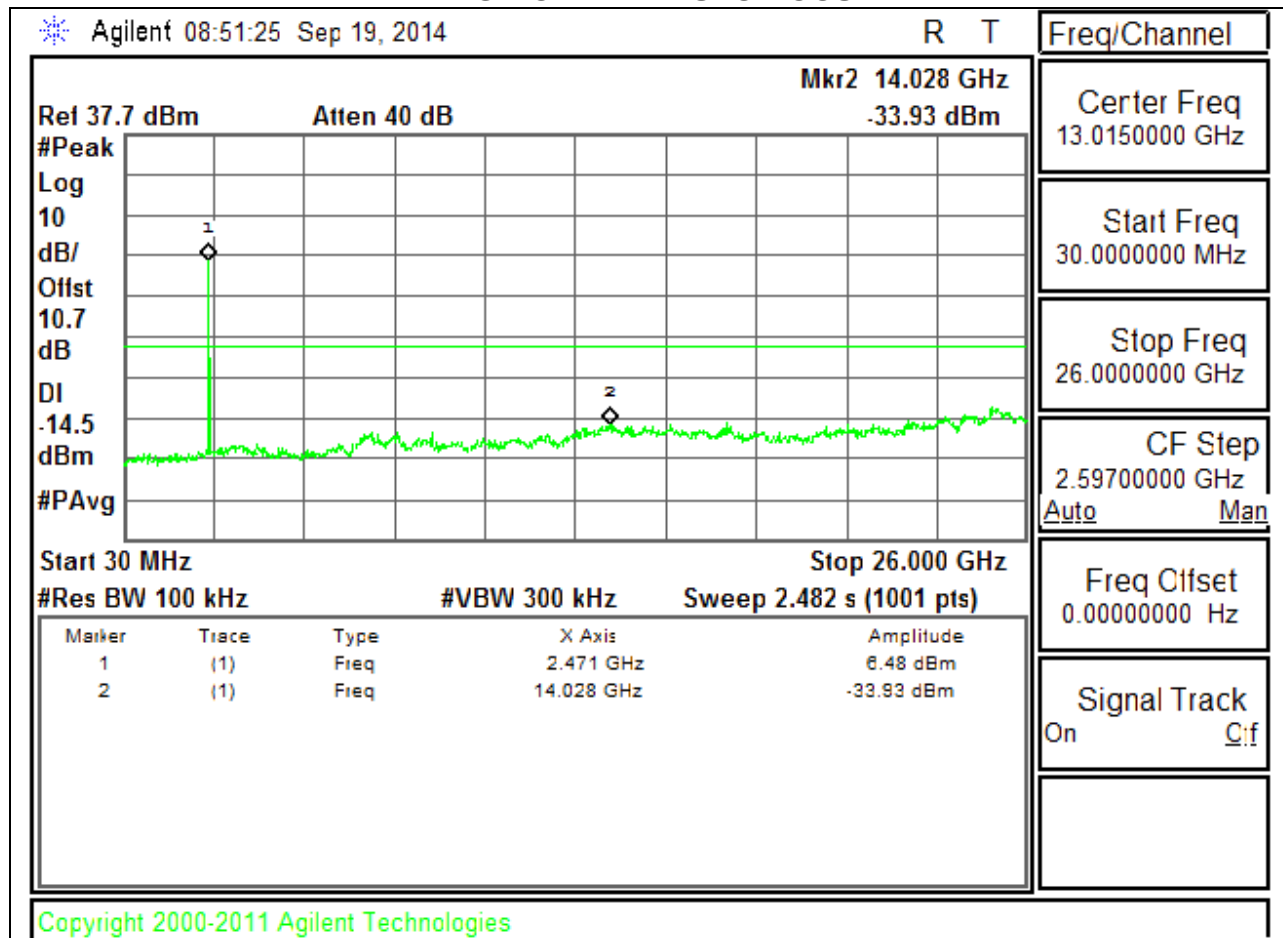


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CHANNEL BANDEDGE

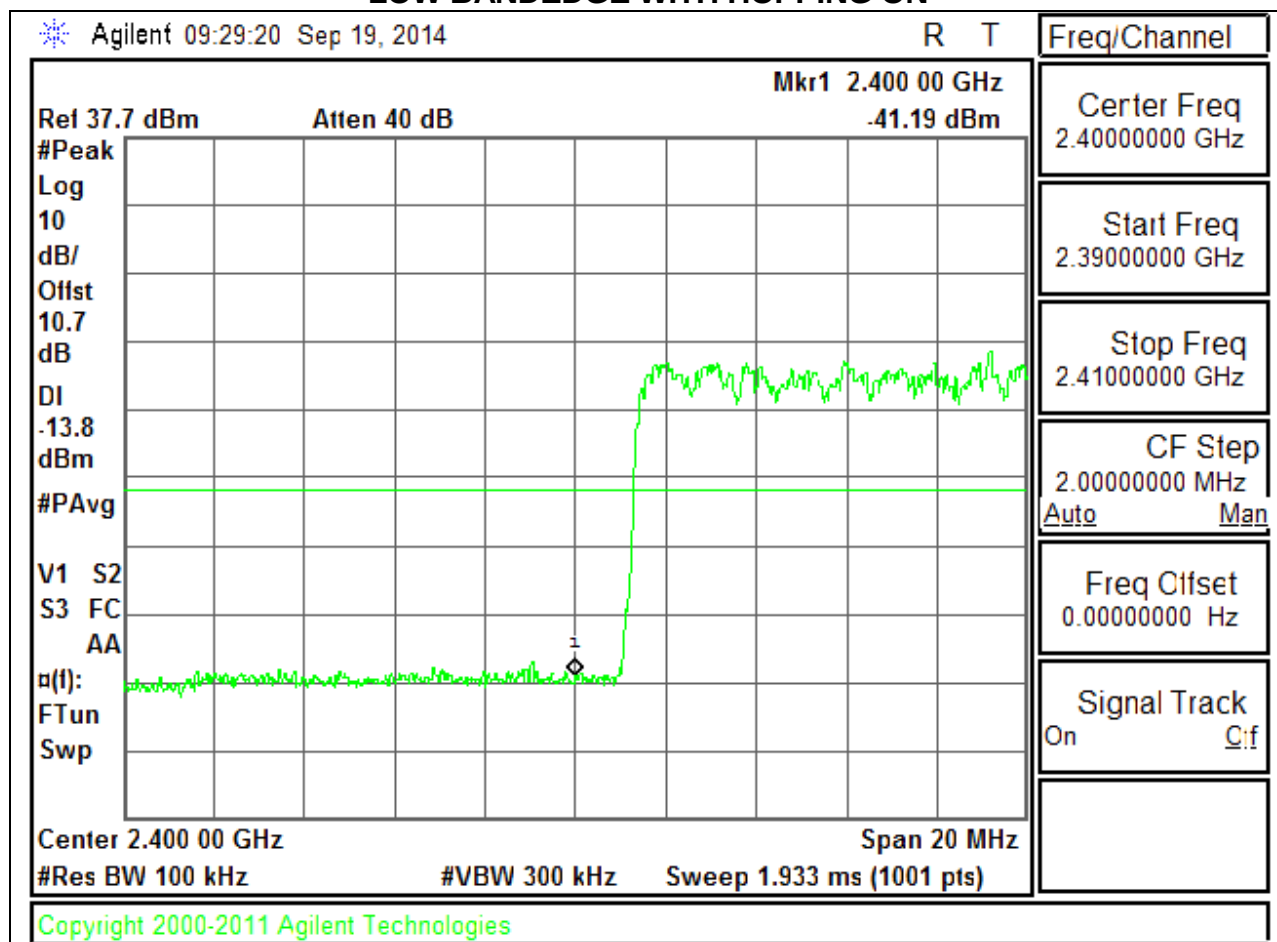


HIGH CHANNEL SPURIOUS

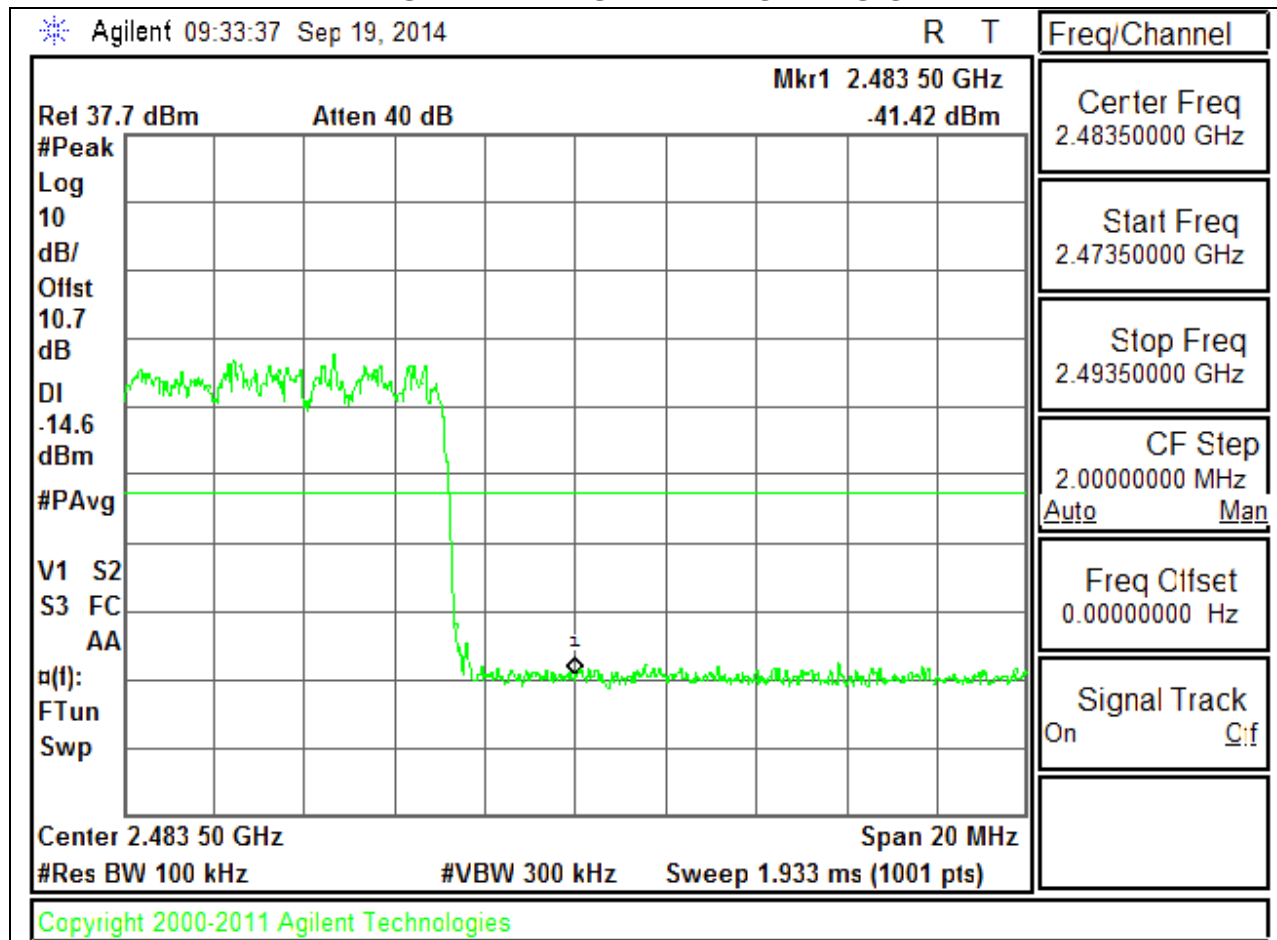


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE WITH HOPPING ON



HIGH BANDEDGE WITH HOPPING ON



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement. $GFSK = 1/T = 1 / 0.0028S = 360Hz$.

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

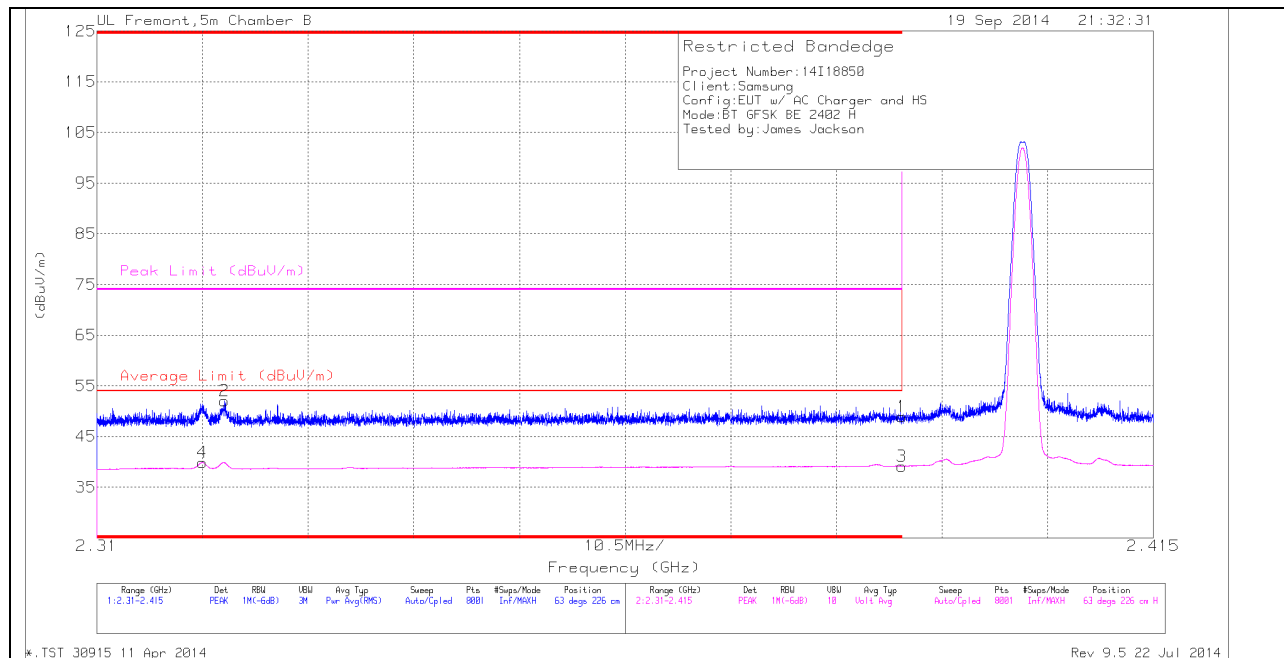
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

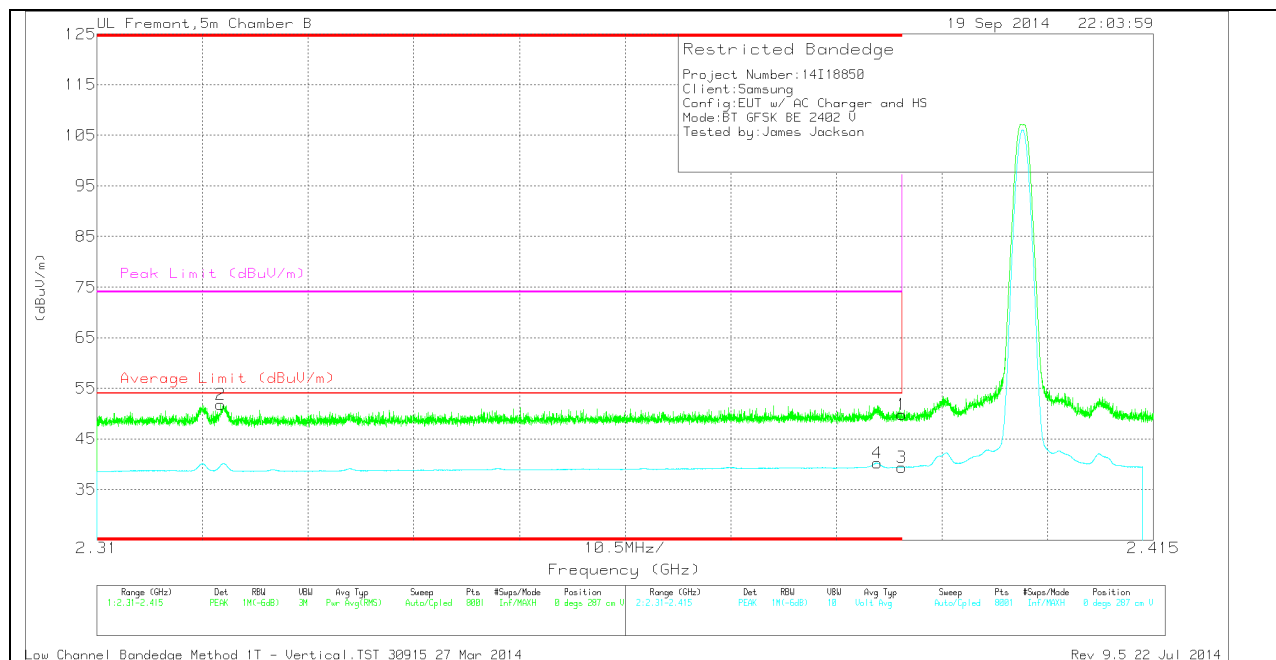
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.52	PK	32.1	-22.7	0	48.92	-	-	74	-25.08	63	226	H
2	* 2.323	43.03	PK	31.8	-22.8	0	52.03	-	-	74	-21.97	63	226	H
3	* 2.39	29.75	VB1T	32.1	-22.7	0	39.15	54	-14.85	-	-	63	226	H
4	* 2.32	31.01	VB1T	31.7	-22.8	0	39.91	54	-14.09	-	-	63	226	H

VERTICAL PEAK AND AVERAGE PLOT

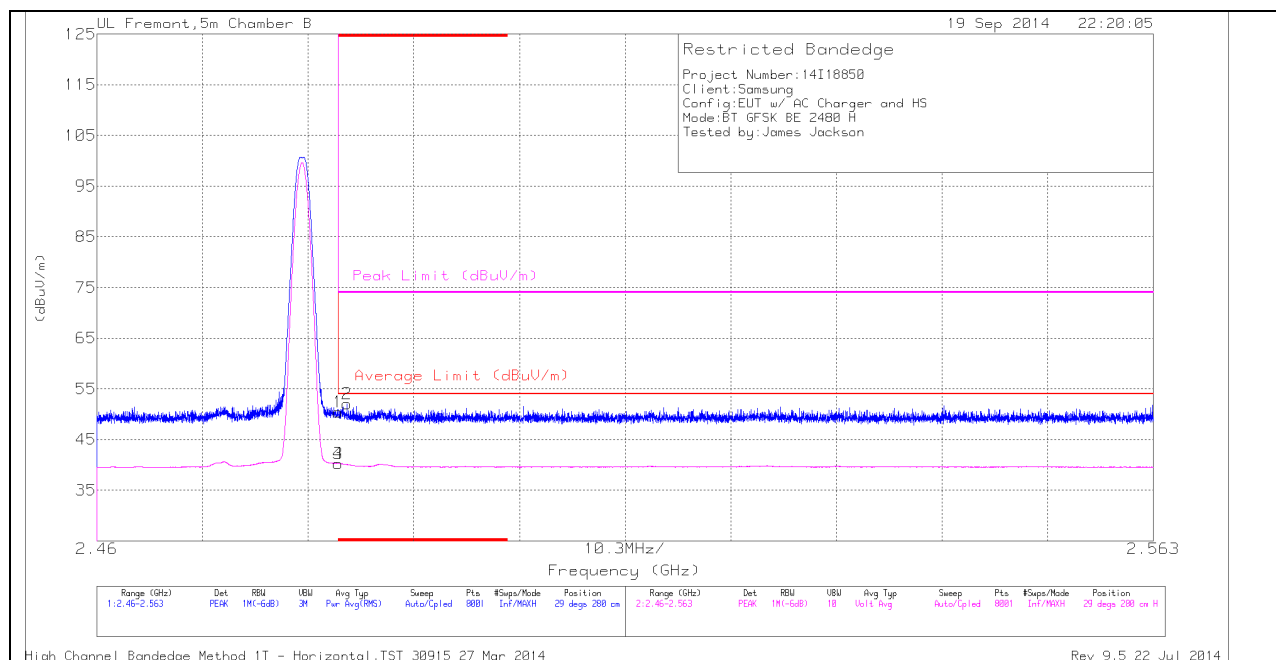


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.35	PK	32.1	-22.7	0	49.75	-	-	74	-24.25	0	287	V
2	* 2.322	42.83	PK	31.7	-22.8	0	51.73	-	-	74	-22.27	0	287	V
3	* 2.39	30	VB1T	32.1	-22.7	0	39.4	54	-14.6	-	-	0	287	V
4	* 2.388	30.83	VB1T	32.1	-22.7	0	40.23	54	-13.77	-	-	0	287	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

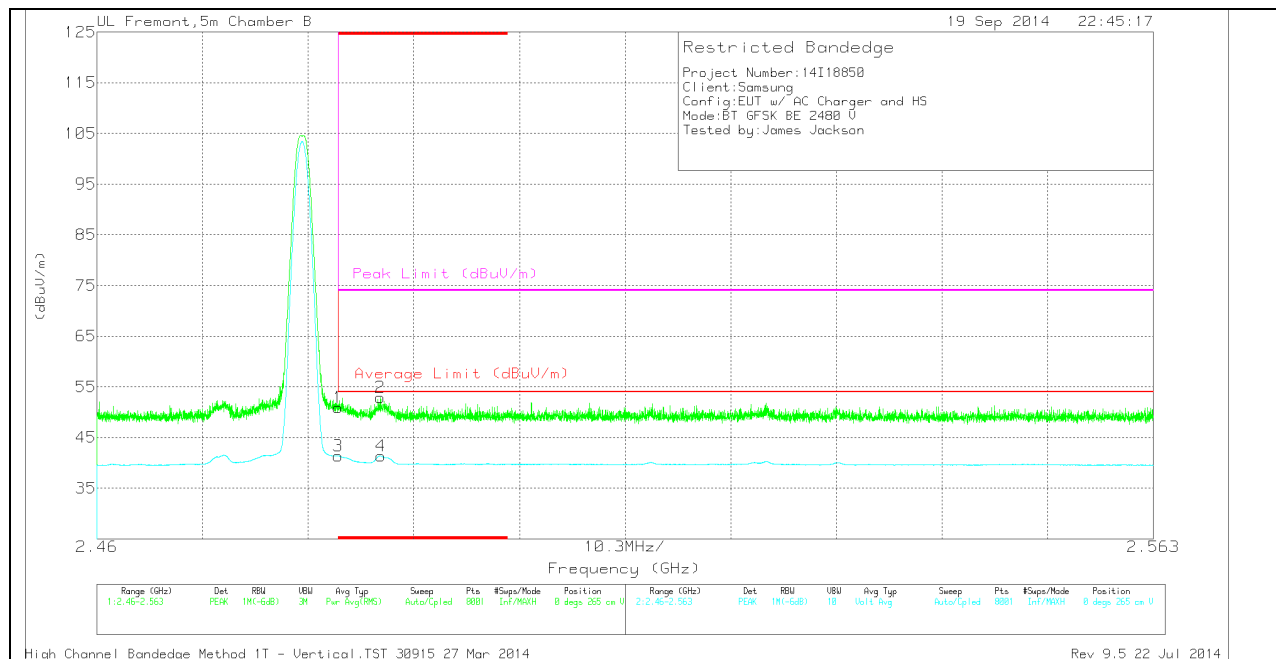
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.65	PK	32.4	-22.6	0	50.45	-	-	74	-23.55	29	280	H
2	* 2.484	42.25	PK	32.4	-22.6	0	52.05	-	-	74	-21.95	29	280	H
3	* 2.484	30.48	VB1T	32.4	-22.6	0	40.28	54	-13.72	-	-	29	280	H
4	* 2.484	30.48	VB1T	32.4	-22.6	0	40.28	54	-13.72	-	-	29	280	H

VERTICAL PEAK AND AVERAGE PLOT

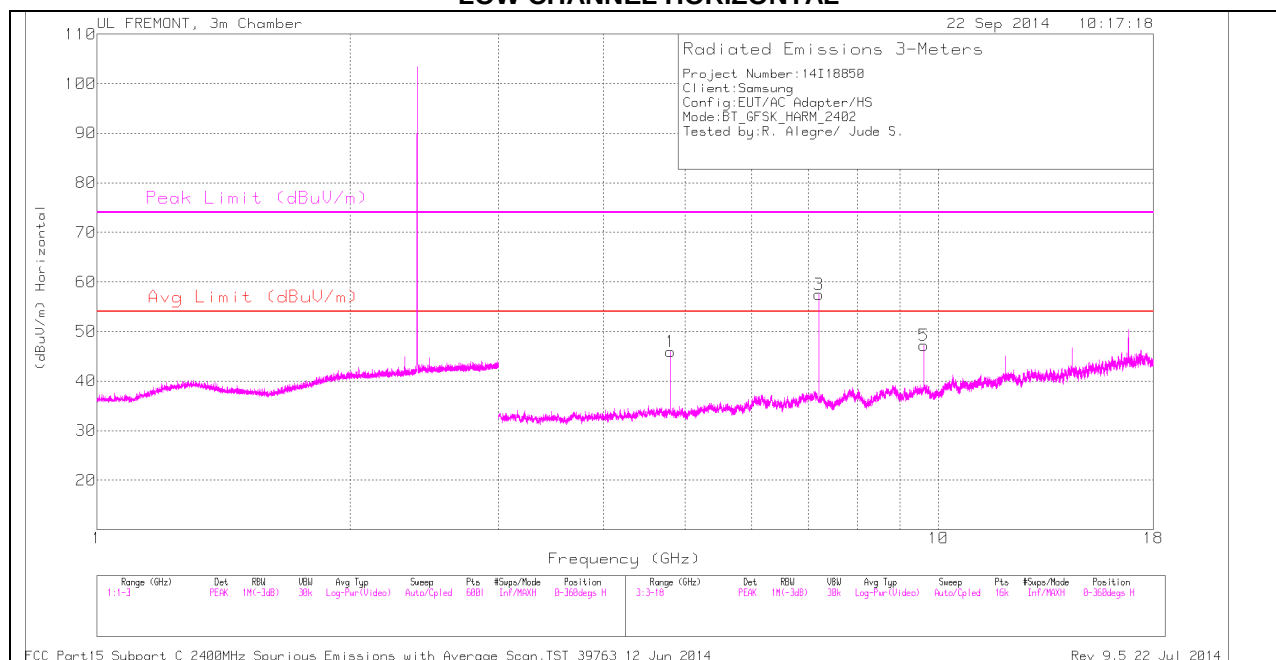


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.11	PK	32.4	-22.6	0	50.91	-	-	74	-23.09	0	265	V
2	* 2.488	43.14	PK	32.4	-22.6	0	52.94	-	-	74	-21.06	0	265	V
3	* 2.484	31.55	VB1T	32.4	-22.6	0	41.35	54	-12.65	-	-	0	265	V
4	* 2.488	31.56	VB1T	32.4	-22.6	0	41.36	54	-12.64	-	-	0	265	V

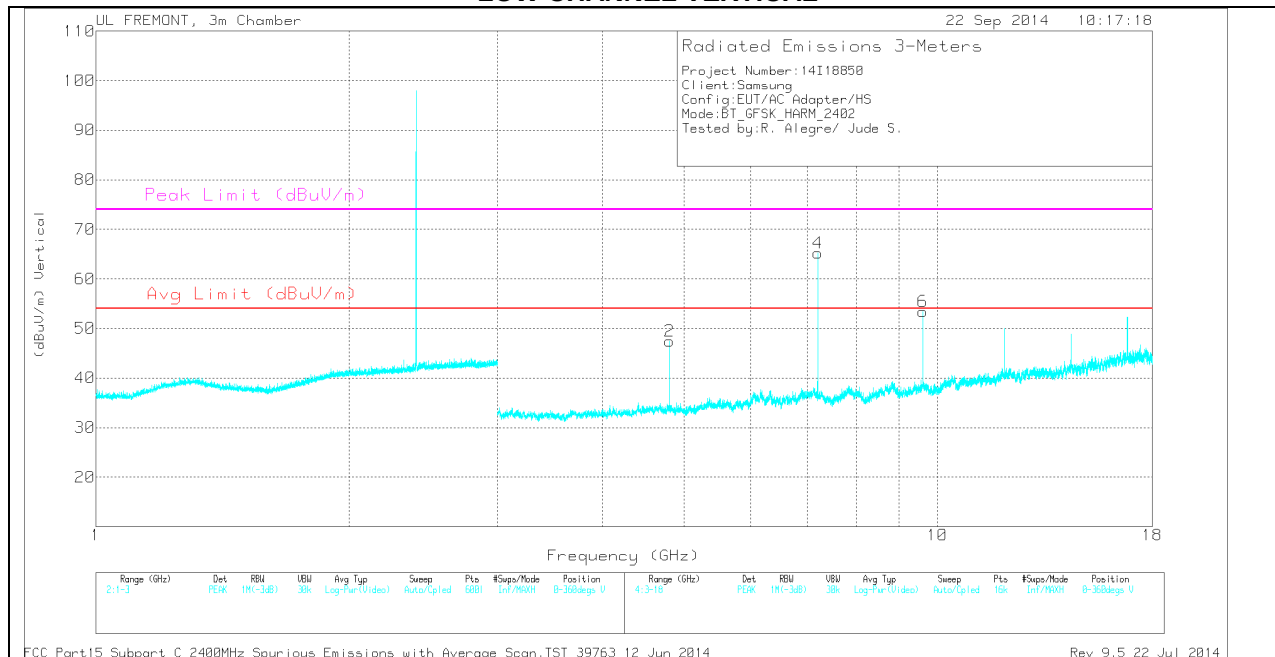
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.804	42.1	PK	34.1	-30.3	45.9	-	-	74	-28.1	0-360	200	H
2	4.804	43.66	PK	34.1	-30.3	47.46	-	-	74	-26.54	0-360	200	V
4	7.205	58.77	PK	35.6	-29.2	65.17	-	-	-	-	0-360	200	V
3	7.206	51.07	PK	35.6	-29.2	57.47	-	-	-	-	0-360	100	H
6	9.607	41.97	PK	36.7	-25.2	53.47	-	-	-	-	0-360	100	V
5	9.608	35.77	PK	36.7	-25.3	47.17	-	-	-	-	0-360	200	H

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.804	48.02	PK3	34.1	-30.3	51.82	-	-	74	-22.18	153	199	V
7.206	61.76	PK3	35.6	-29.2	68.16	-	-	-	-	50	306	V
9.607	46.84	PK3	36.7	-25.2	58.34	-	-	-	-	246	293	V

PK3 - FHSS Method: Maximum Peak

For marker 2, 4.804MHz, used the following method to do averaging:

DCCF=20* Log(100ms/Ton)

Ton=2.88ms

DCCF=30.8

Corrected AV reading = Peak Reading – DCCF

21.02 dBuV/m = 51.82 – 30.8

For marker 4, 7.205MHz, used the following method to do averaging:

DCCF=20* Log(100ms/Ton)

Ton=2.88ms

DCCF=30.8

Corrected AV reading = Peak Reading – DCCF

37.36dBuV/m = 68.16 – 30.8

For marker 6, 9.607MHz, used the following method to do averaging:

DCCF=20* Log(100ms/Ton)

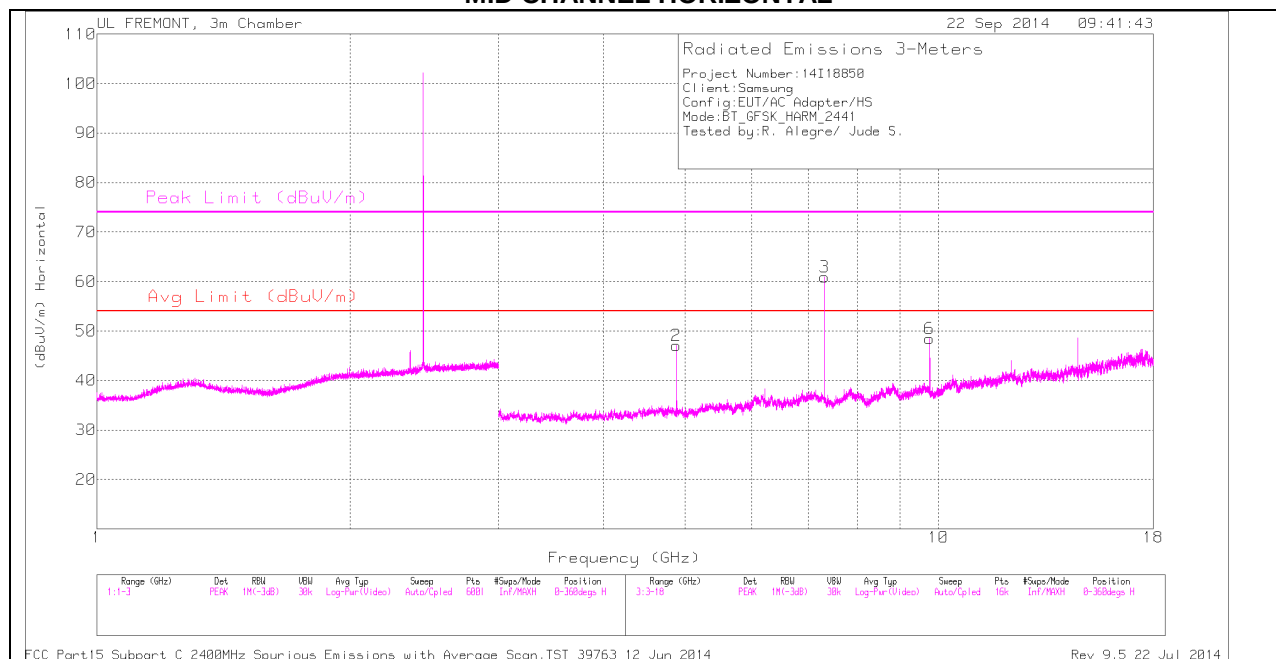
Ton=2.88ms

DCCF=30.8

Corrected AV reading = Peak Reading – DCCF

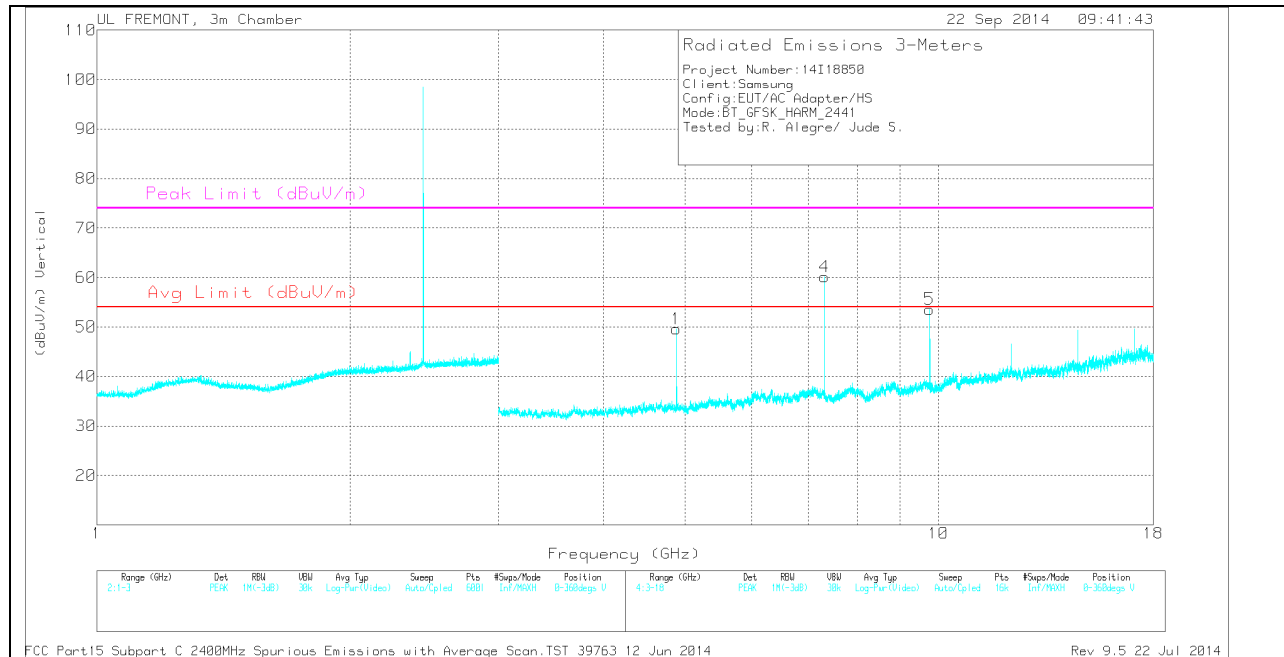
27.54dBuV/m = 58.34 – 30.8

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	4.882	43.15	PK	34	-30.1	47.05	-	-	74	-26.95	0-360	200	H
1	4.882	45.67	PK	34	-30.1	49.57	-	-	74	-24.43	0-360	200	V
3	7.323	53.66	PK	35.6	-28.4	60.86	-	-	74	-13.14	0-360	200	H
4	7.323	52.96	PK	35.6	-28.4	60.16	-	-	74	-13.84	0-360	100	V
6	9.764	37.59	PK	36.9	-26	48.49	-	-	-	-	0-360	200	H
5	9.764	42.71	PK	36.9	-26	53.61	-	-	-	-	0-360	100	V

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.882	49.43	PK3	34	-30.1	53.33	-	-	74	-20.67	80	196	V
7.324	56.47	PK3	35.6	-28.4	63.67	-	-	74	-10.33	125	327	H
9.765	47.45	PK3	36.9	-26	58.35	-	-	-	-	253	232	V

PK3 - FHSS Method: Maximum Peak

For marker 1, 4.882 MHz, used the following method to do averaging:

$DCCF = 20 * \log(100\text{ms}/T_{\text{on}})$

$T_{\text{on}} = 2.88\text{ms}$

$DCCF = 30.8$

Corrected AV reading = Peak Reading – DCCF

$22.53 \text{ dBuV/m} = 53.33 - 30.8$

For marker 3, 7.324 MHz, used the following method to do averaging:

$DCCF = 20 * \log(100\text{ms}/T_{\text{on}})$

$T_{\text{on}} = 2.88\text{ms}$

$DCCF = 30.8$

Corrected AV reading = Peak Reading – DCCF

$32.87 \text{ dBuV/m} = 63.67 - 30.8$

For marker 5, 9.765 MHz, used the following method to do averaging:

$DCCF = 20 * \log(100\text{ms}/T_{\text{on}})$

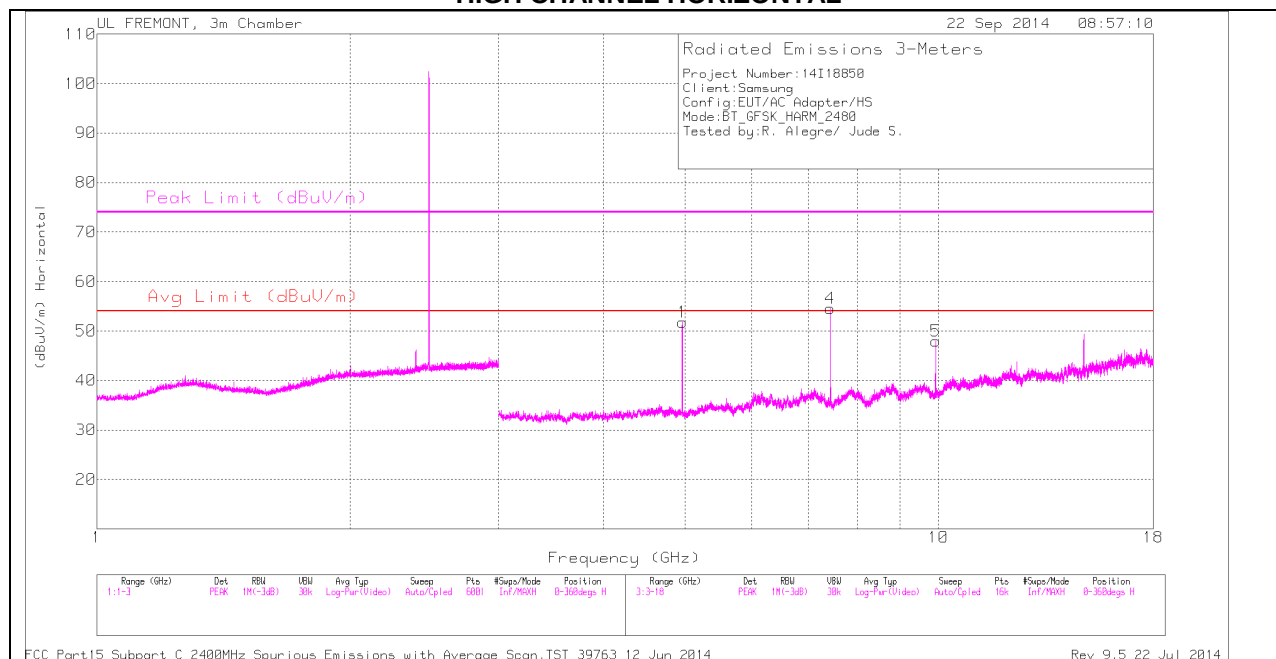
$T_{\text{on}} = 2.88\text{ms}$

$DCCF = 30.8$

Corrected AV reading = Peak Reading – DCCF

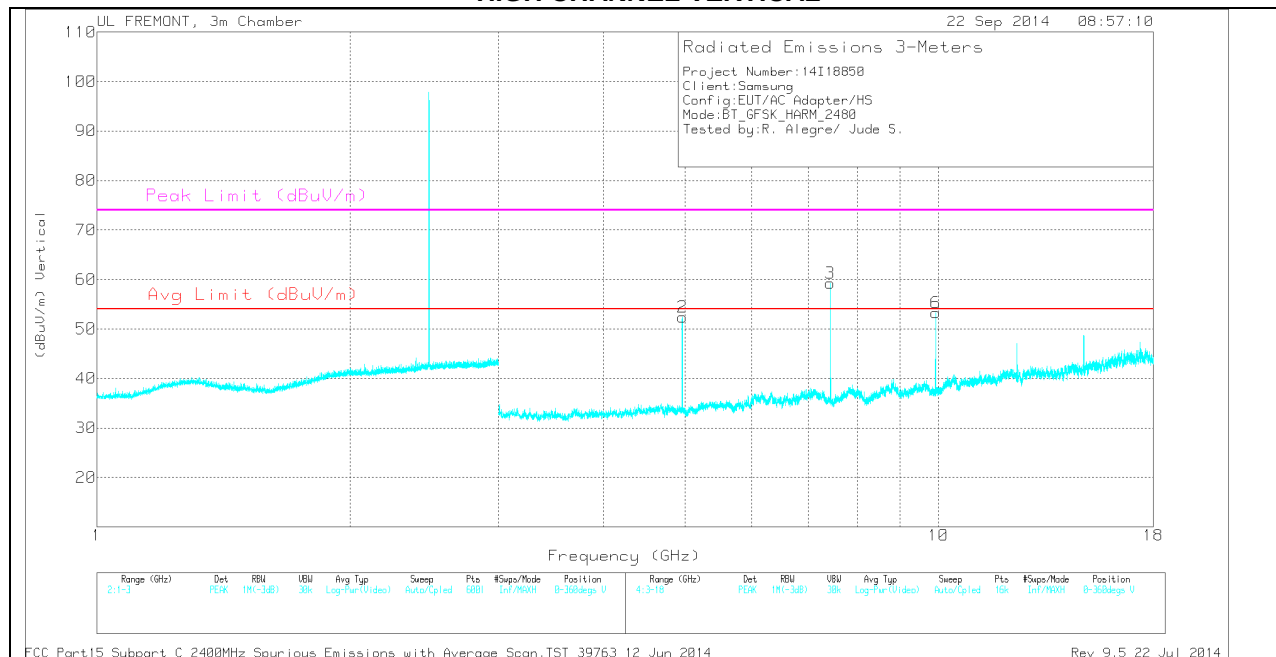
$27.55 \text{ dBuV/m} = 58.35 - 30.8$

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.96	48.78	PK	34	-31	51.78	-	-	74	-22.22	0-360	200	H
2	4.96	49.36	PK	34	-31	52.36	-	-	74	-21.64	0-360	200	V
3	7.44	52.46	PK	35.7	-28.9	59.26	-	-	74	-14.74	0-360	200	V
4	7.441	47.79	PK	35.7	-28.9	54.59	-	-	74	-19.41	0-360	200	H
5	9.919	36.61	PK	36.9	-25.6	47.91	-	-	-	-	0-360	200	H
6	9.92	41.99	PK	36.9	-25.6	53.29	-	-	-	-	0-360	100	V

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.96	53.69	PK3	34	-31	56.69	-	-	74	-17.31	230	351	V
7.439	58.08	PK3	35.7	-28.9	64.88	-	-	74	-9.12	67	309	V
9.921	47.29	PK3	36.9	-25.6	58.59	-	-	-	-	255	176	V

PK - Peak detector

PK3 - FHSS Method: Maximum Peak

For marker 2, 4.960MHz, used the following method to do averaging:

$DCCF = 20 \cdot \log(100\text{ms}/T_{\text{on}})$

$T_{\text{on}} = 2.88\text{ms}$

$DCCF = 30.8$

Corrected AV reading = Peak Reading – DCCF

$25.89\text{dBuV/m} = 56.69 - 30.8$

For marker 3, 7.439MHz, used the following method to do averaging:

$DCCF = 20 \cdot \log(100\text{ms}/T_{\text{on}})$

$T_{\text{on}} = 2.88\text{ms}$

$DCCF = 30.8$

Corrected AV reading = Peak Reading – DCCF

$34.08\text{dBuV/m} = 64.88 - 30.8$

For marker 6, 9.921MHz, used the following method to do averaging:

$DCCF = 20 \cdot \log(100\text{ms}/T_{\text{on}})$

$T_{\text{on}} = 2.88\text{ms}$

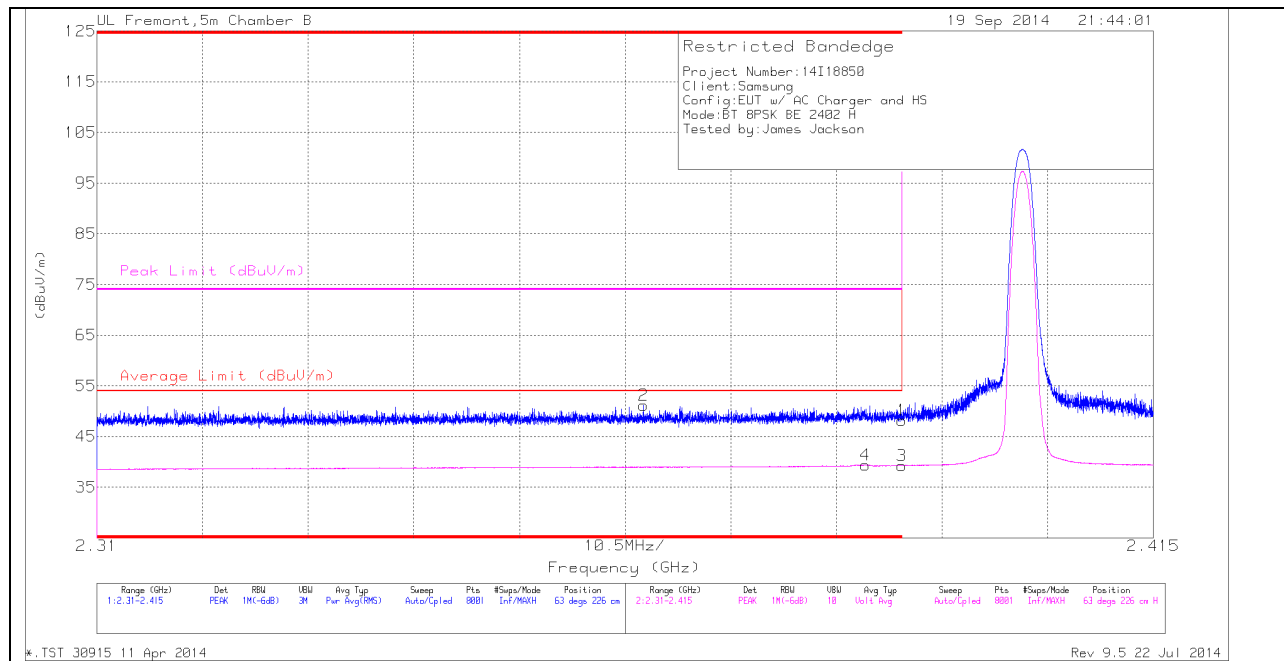
$DCCF = 30.8$

Corrected AV reading = Peak Reading – DCCF

$27.79\text{dBuV/m} = 58.59 - 30.8$

9.2.2. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

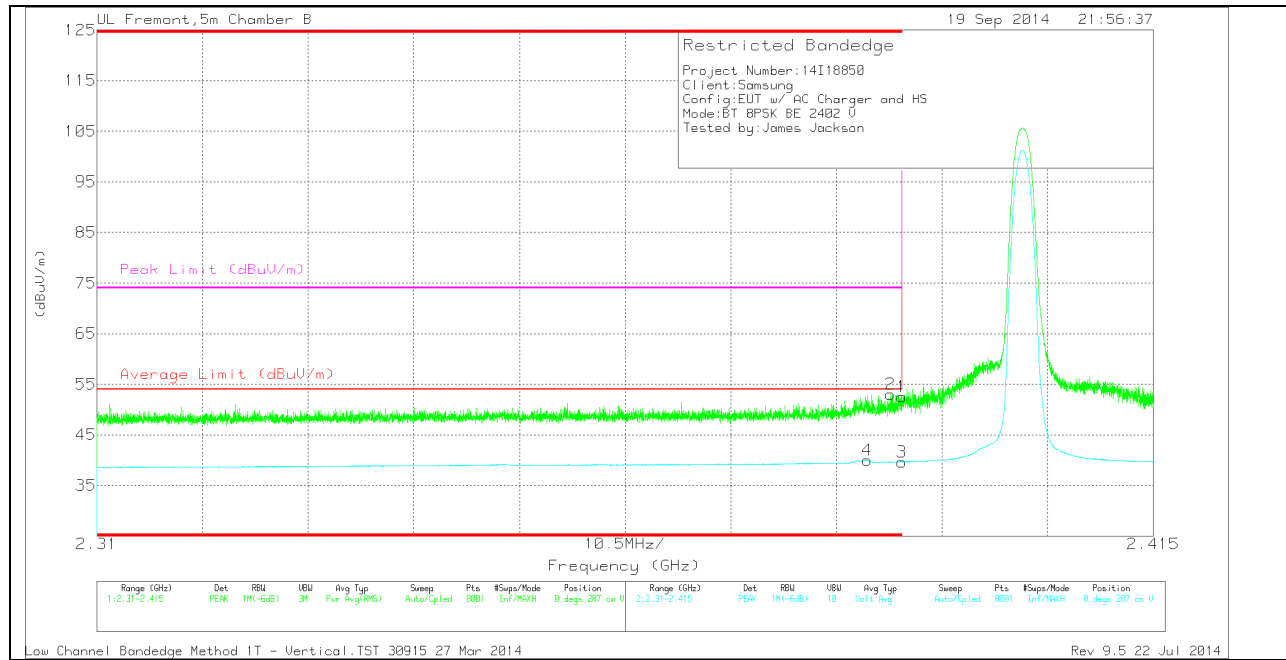
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.78	PK	32.1	-22.7	0	48.18	-	-	74	-25.82	63	226	H
2	* 2.364	41.92	PK	32	-22.8	0	51.12	-	-	74	-22.88	63	226	H
3	* 2.39	29.84	VB1T	32.1	-22.7	0	39.24	54	-14.76	-	-	63	226	H
4	* 2.386	30	VB1T	32.1	-22.7	0	39.4	54	-14.6	-	-	63	226	H

VERTICAL PEAK AND AVERAGE PLOT

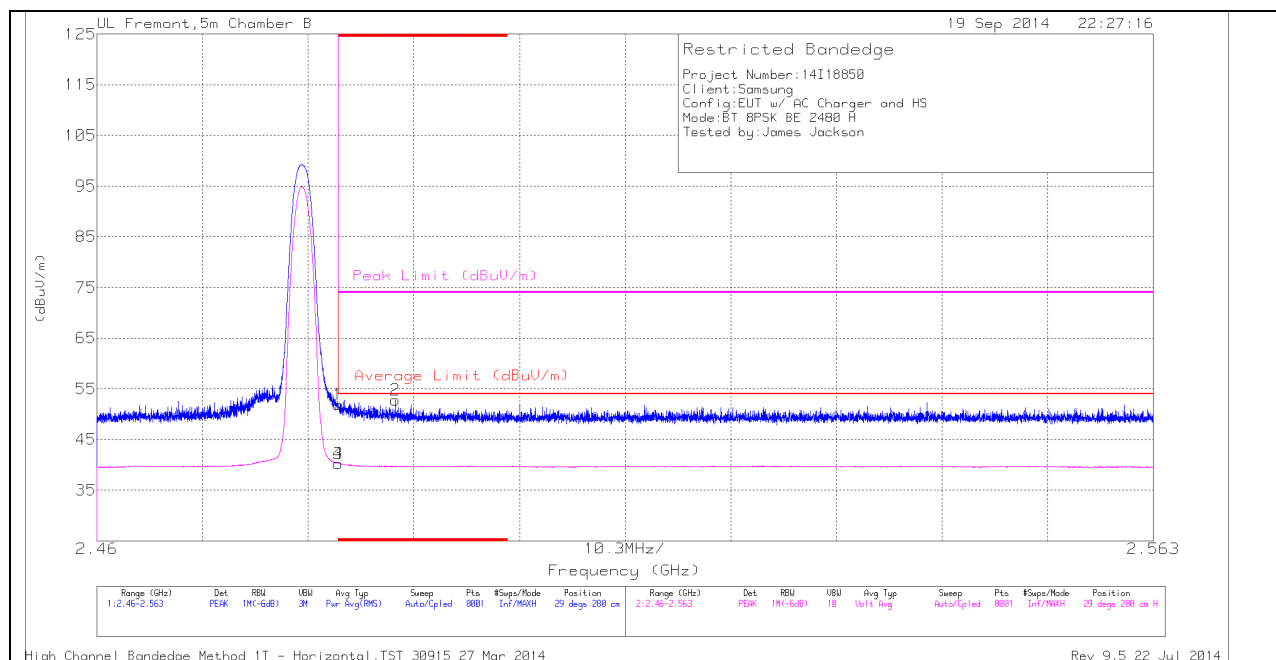


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.08	PK	32.1	-22.7	0	52.48	-	-	74	-21.52	0	287	V
2	* 2.389	43.57	PK	32.1	-22.7	0	52.97	-	-	74	-21.03	0	287	V
3	* 2.39	30.23	VB1T	32.1	-22.7	0	39.63	54	-14.37	-	-	0	287	V
4	* 2.387	30.6	VB1T	32.1	-22.7	0	40	54	-14	-	-	0	287	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

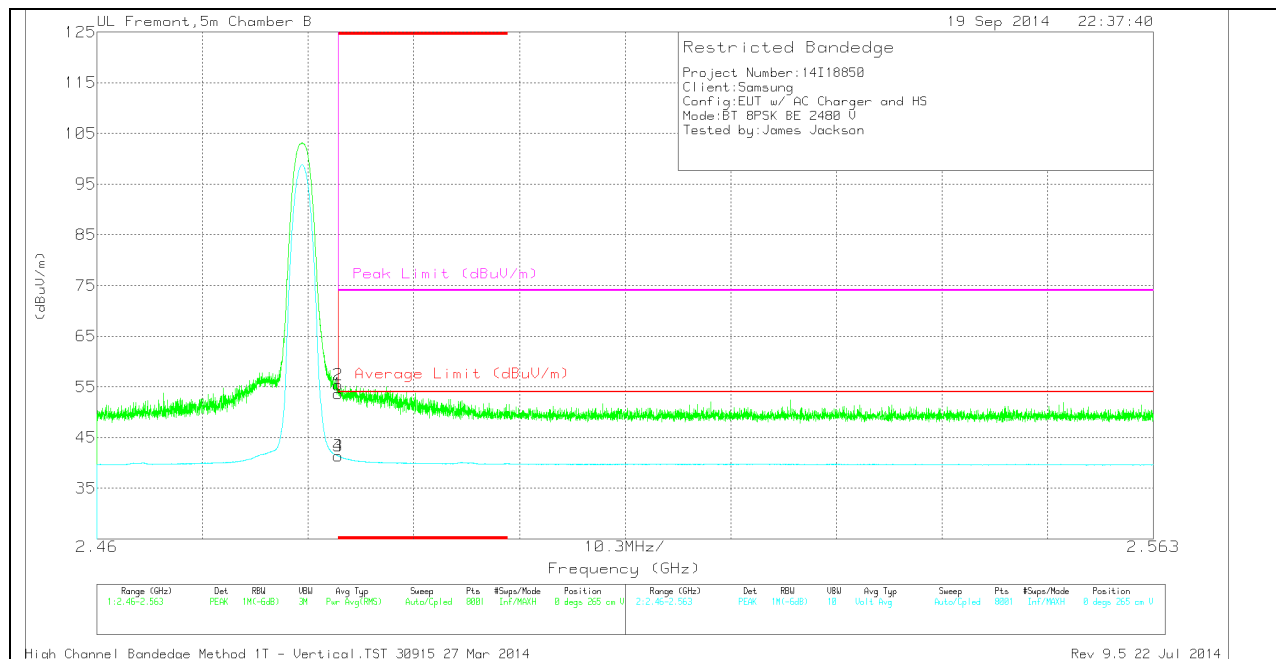
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.12	PK	32.4	-22.6	0	51.92	-	-	74	-22.08	29	280	H
2	* 2.489	42.97	PK	32.4	-22.6	0	52.77	-	-	74	-21.23	29	280	H
3	* 2.484	30.48	VB1T	32.4	-22.6	0	40.28	54	-13.72	-	-	29	280	H
4	* 2.484	30.48	VB1T	32.4	-22.6	0	40.28	54	-13.72	-	-	29	280	H

VERTICAL PEAK AND AVERAGE PLOT

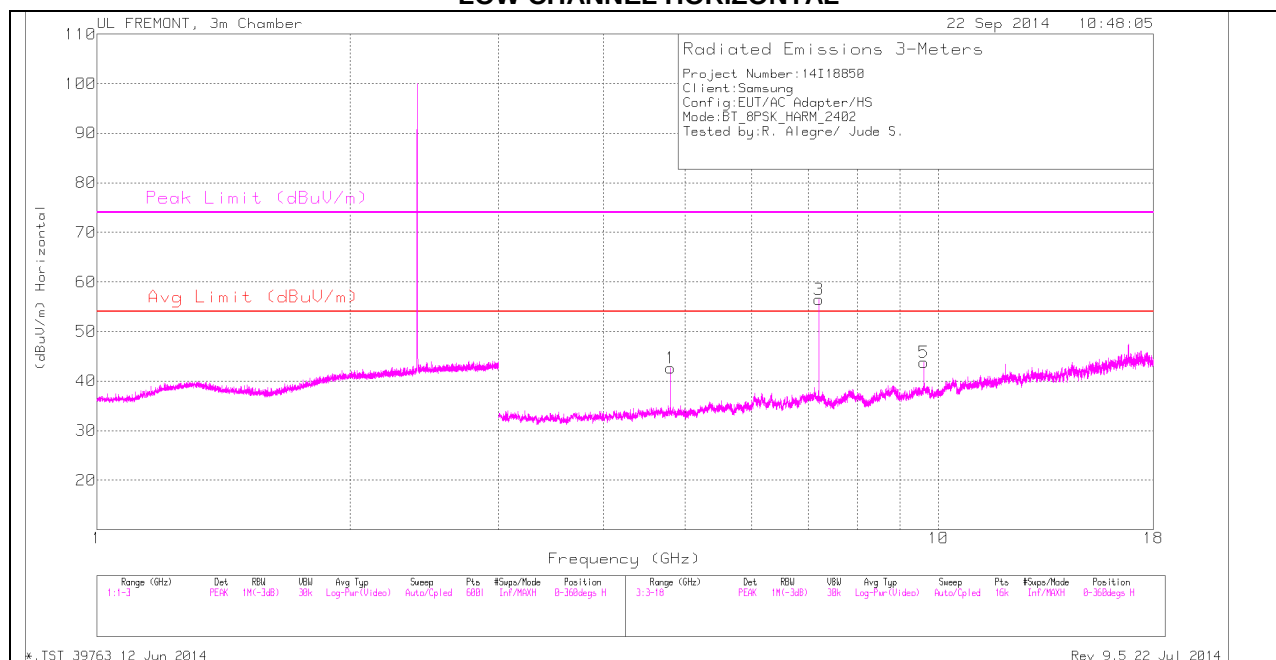


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.81	PK	32.4	-22.6	0	53.61	-	-	74	-20.39	0	265	V
2	* 2.484	45.53	PK	32.4	-22.6	0	55.33	-	-	74	-18.67	0	265	V
3	* 2.484	31.56	VB1T	32.4	-22.6	0	41.36	54	-12.64	-	-	0	265	V
4	* 2.484	31.54	VB1T	32.4	-22.6	0	41.34	54	-12.66	-	-	0	265	V

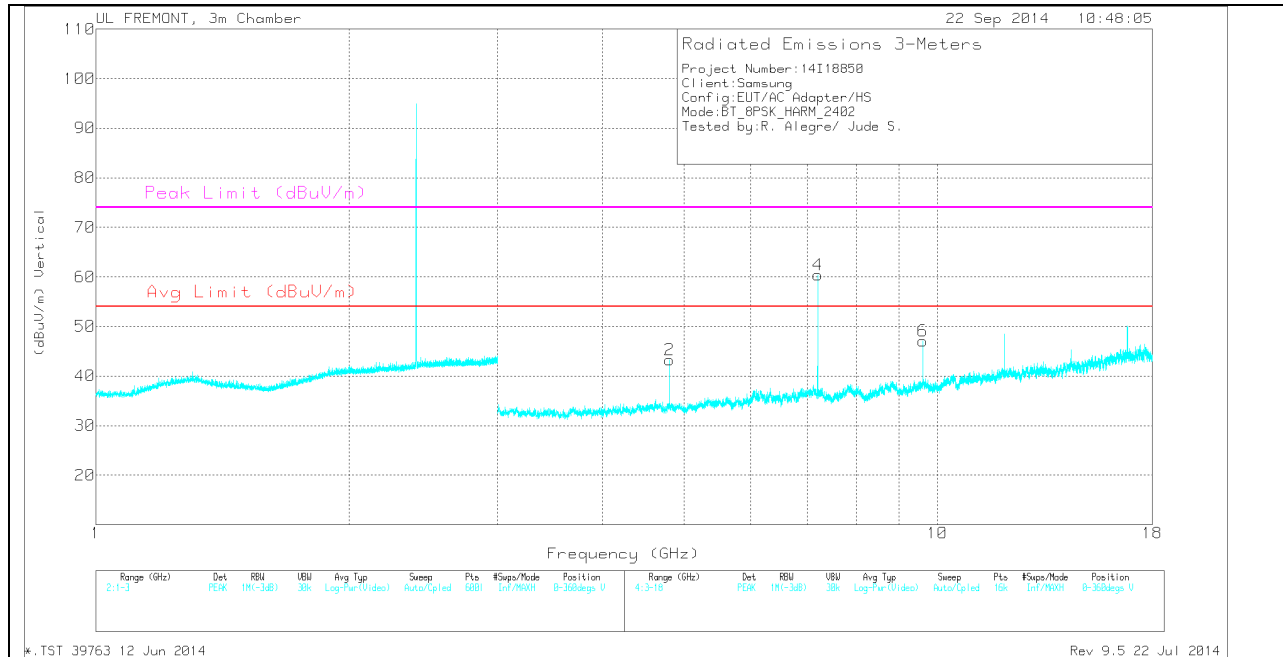
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.804	38.84	PK	34.1	-30.3	42.64	-	-	74	-31.36	0-360	200	H
2	4.805	39.49	PK	34.1	-30.3	43.29	-	-	74	-30.71	0-360	100	V
3	7.205	50.11	PK	35.6	-29.2	56.51	-	-	-	-	0-360	200	H
4	7.205	53.99	PK	35.6	-29.2	60.39	-	-	-	-	0-360	200	V
5	9.608	32.34	PK	36.7	-25.3	43.74	-	-	-	-	0-360	100	H
6	9.608	35.62	PK	36.7	-25.3	47.02	-	-	-	-	0-360	100	V

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.804	45.75	PK3	34.1	-30.3	49.55	-	-	74	-24.45	260	360	V
7.206	61.38	PK3	35.6	-29.2	67.78	-	-	-	-	43	330	V
7.206	61.45	PK3	35.6	-29.2	67.85	-	-	-	-	43	330	V
9.609	44.21	PK3	36.7	-25.3	55.61	-	-	-	-	250	324	V

PK3 - FHSS Method: Maximum Peak

For marker 4, 7.205MHz, used the following method to do averaging:

$DCCF = 20 \cdot \log(100\text{ms}/T_{\text{on}})$

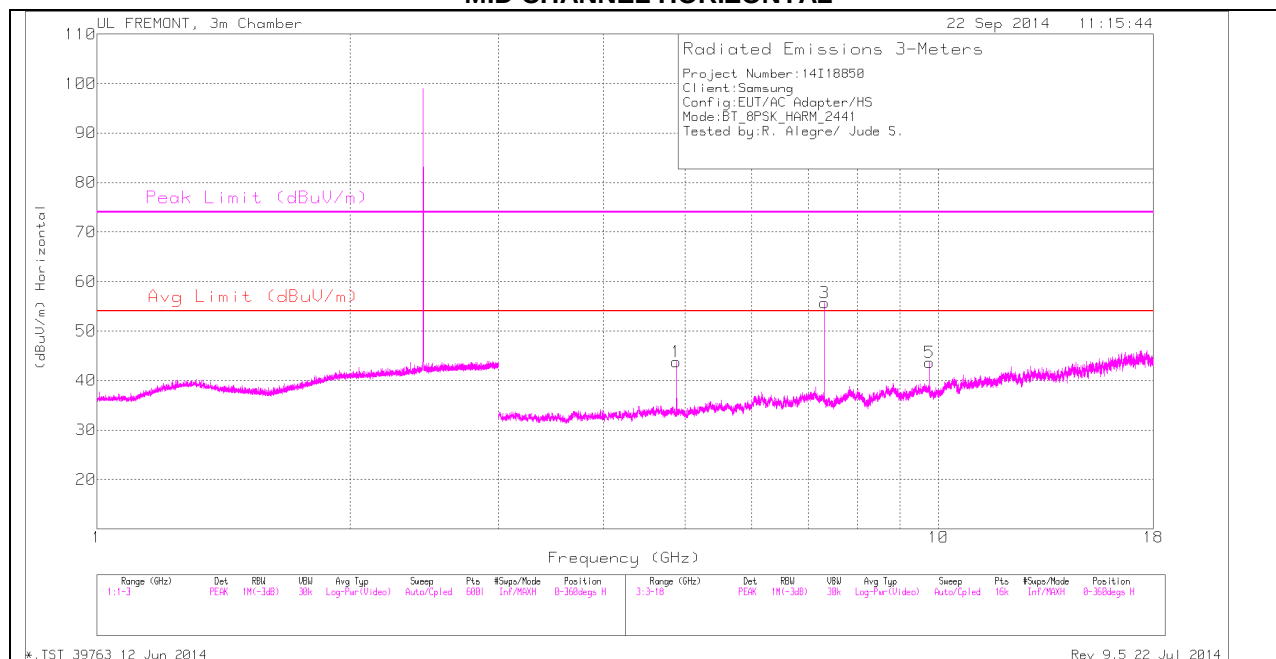
$T_{\text{on}} = 2.744\text{ms}$

$DCCF = 31.23$

Corrected AV reading = Peak Reading – DCCF

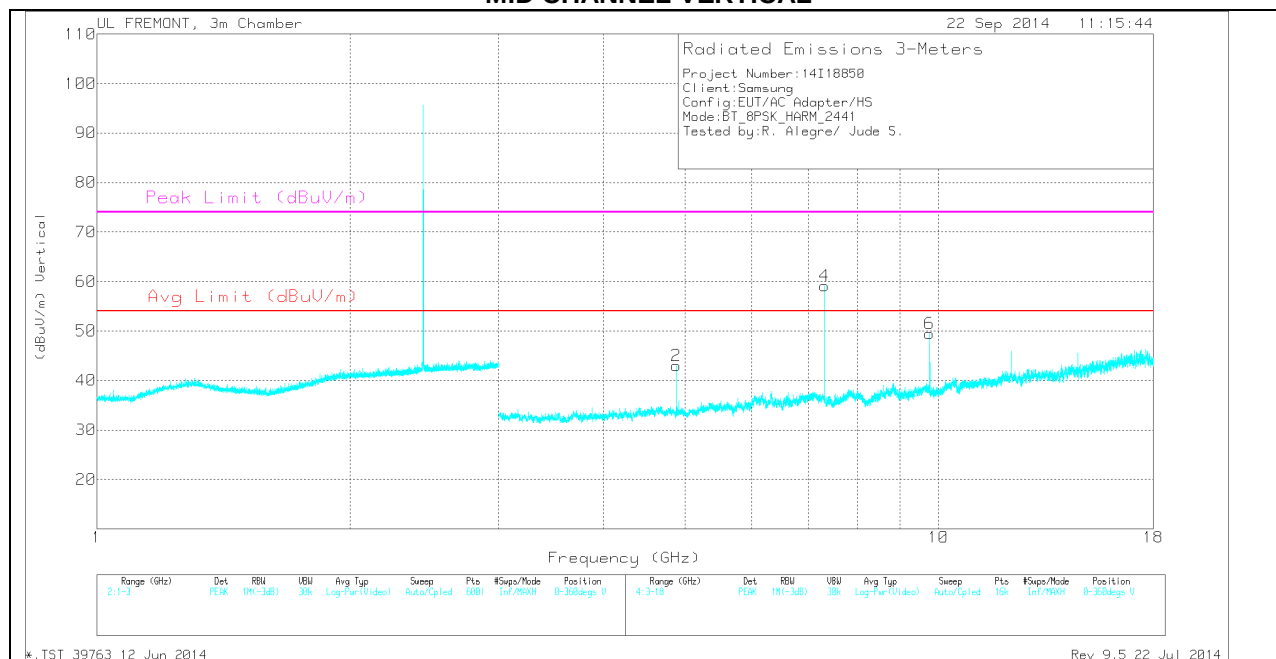
$36.62\text{ dBuV/m} = 67.85 - 31.23$

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.882	39.82	PK	34	-30.1	43.72	-	-	74	-30.28	0-360	200	H
2	4.882	39.07	PK	34	-30.1	42.97	-	-	74	-31.03	0-360	100	V
3	7.323	48.48	PK	35.6	-28.4	55.68	-	-	74	-18.32	0-360	200	H
4	7.323	51.95	PK	35.6	-28.4	59.15	-	-	74	-14.85	0-360	200	V
5	9.763	32.78	PK	36.9	-26	43.68	-	-	-	-	0-360	200	H
6	9.765	38.58	PK	36.9	-26	49.48	-	-	-	-	0-360	200	V

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.882	46.41	PK3	34	-30.1	50.31	-	-	74	-23.69	61	106	V
7.323	55.06	PK3	35.6	-28.4	62.26	-	-	74	-11.74	24	194	V
7.323	57.48	PK3	35.6	-28.4	64.68	-	-	74	-9.32	22	346	V

PK3 - FHSS Method: Maximum Peak

For marker 4, 7.323 MHz, used the following method to do averaging:

$DCCF = 20 * \log(100\text{ms}/T_{\text{on}})$

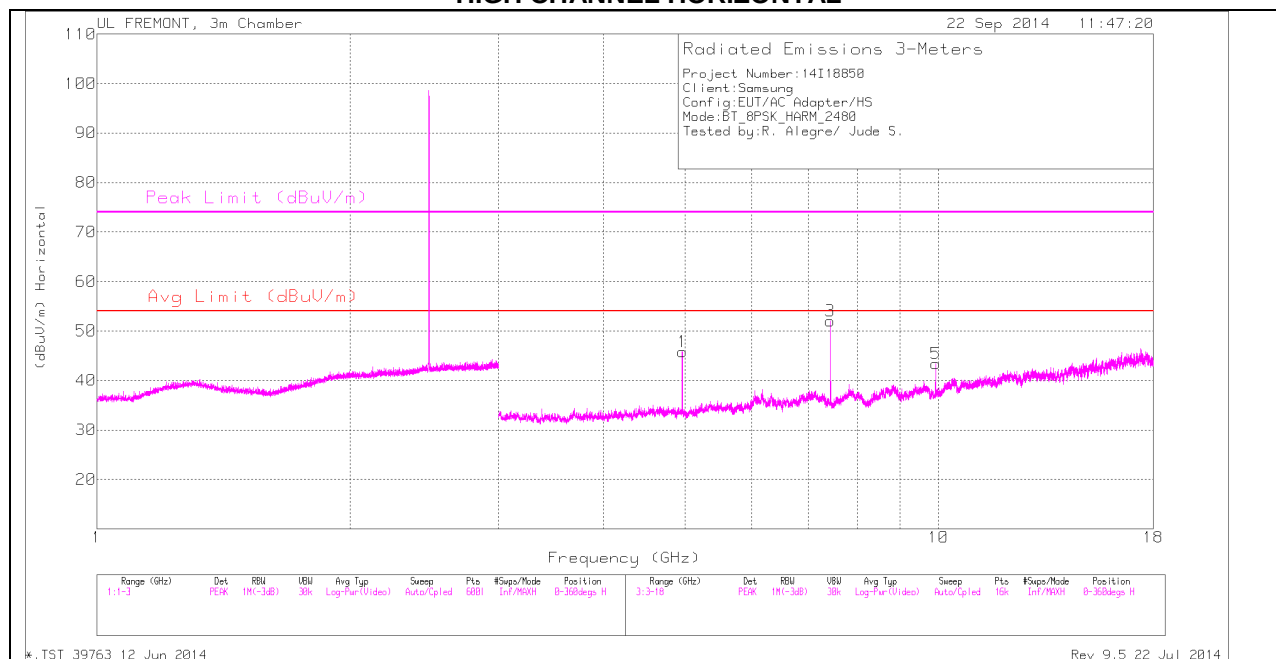
$T_{\text{on}} = 2.744\text{ms}$

$DCCF = 31.23$

Corrected AV reading = Peak Reading – DCCF

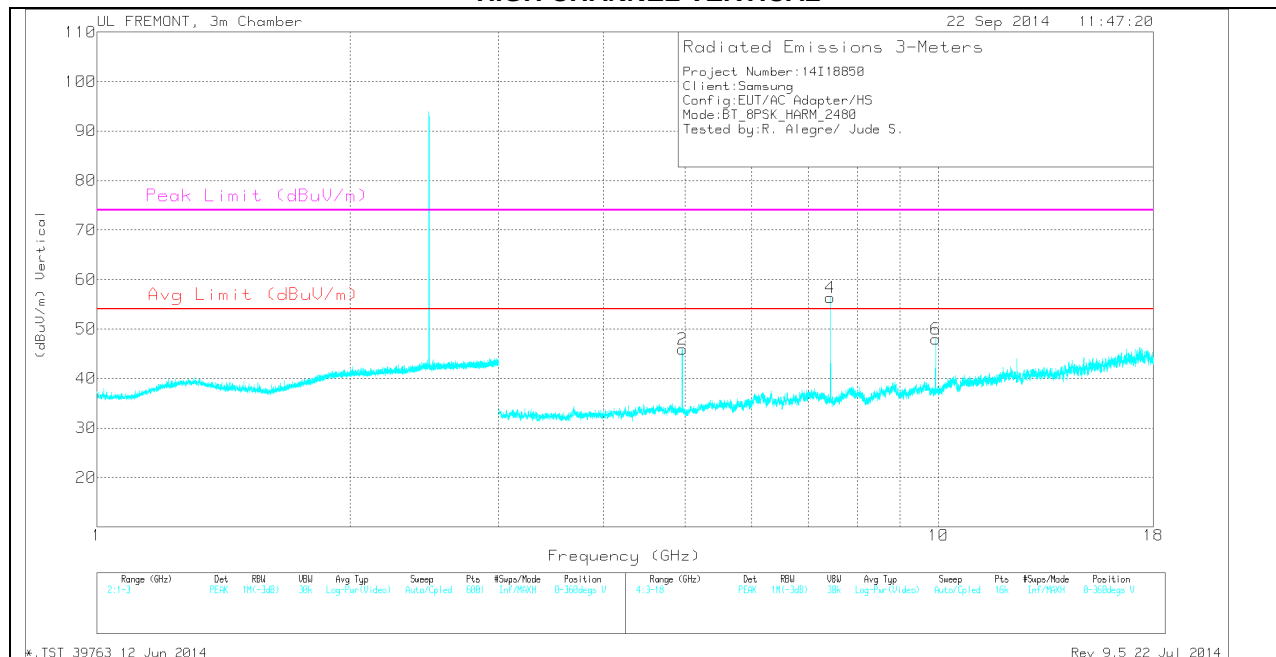
$33.45 \text{ dBuV/m} = 64.68 - 31.23$

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.96	42.79	PK	34	-31	45.79	-	-	74	-28.21	0-360	200	H
2	4.96	42.99	PK	34	-31	45.99	-	-	74	-28.01	0-360	200	V
3	7.44	45.23	PK	35.7	-28.9	52.03	-	-	74	-21.97	0-360	200	H
4	7.441	49.56	PK	35.7	-28.9	56.36	-	-	74	-17.64	0-360	200	V
5	9.919	32.14	PK	36.9	-25.6	43.44	-	-	-	-	0-360	200	H
6	9.919	36.66	PK	36.9	-25.6	47.96	-	-	-	-	0-360	100	V

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.96	50.93	PK3	34	-31	53.93	-	-	74	-20.07	229	345	V
7.44	57.25	PK3	35.7	-28.9	64.05	-	-	74	-9.95	60	309	V
9.919	41.1	PK3	36.9	-25.6	52.4	-	-	-	-	286	176	V

PK3 - FHSS Method: Maximum Peak

For marker 4, 7.44 MHz, used the following method to do averaging:

$DCCF = 20 * \log(100\text{ms}/T_{\text{on}})$

$T_{\text{on}} = 2.744\text{ms}$

$DCCF = 31.23$

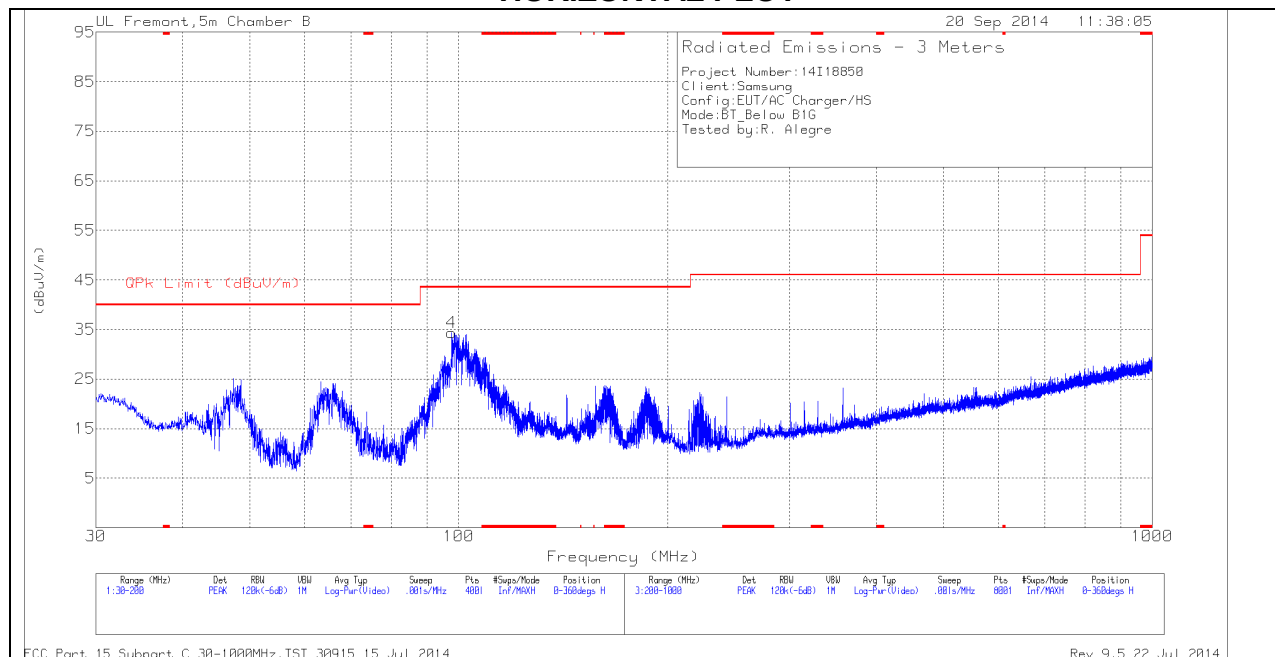
Corrected AV reading = Peak Reading – DCCF

$32.82 \text{ dBuV/m} = 64.05 - 31.23$

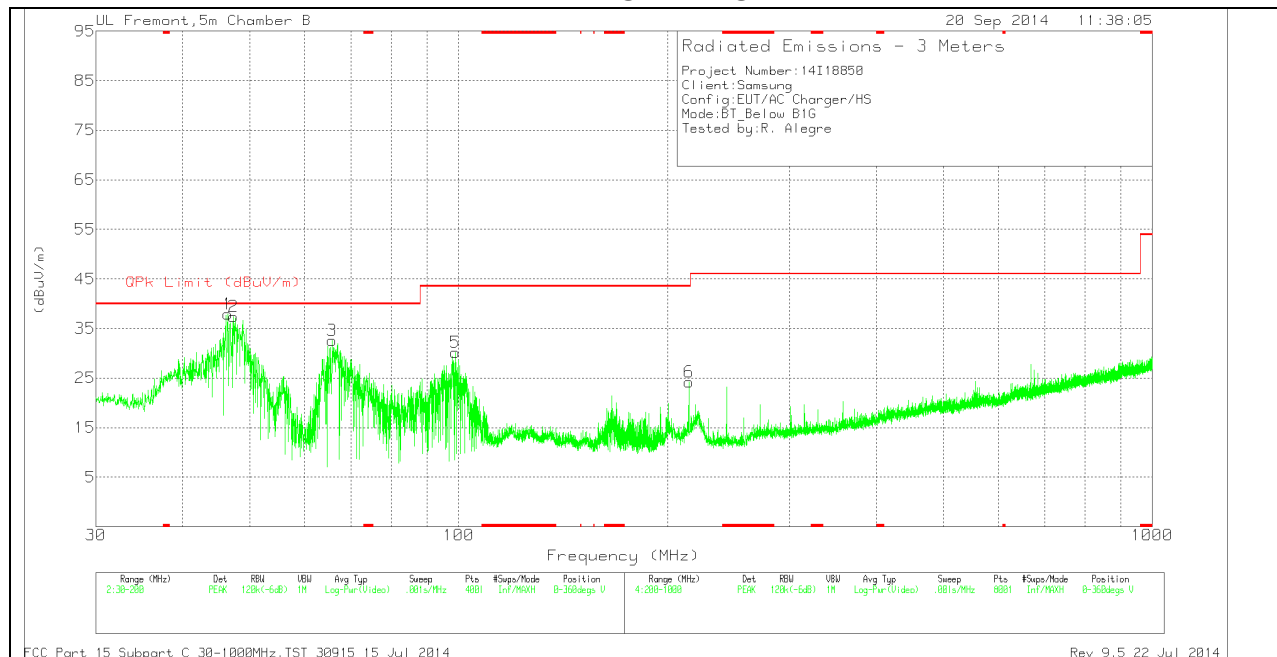
9.3. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.4475	56.86	PK	9.6	-28.5	37.96	40	-2.04	0-360	101	V
2	47.3825	56.87	PK	9.1	-28.6	37.37	40	-2.63	0-360	101	V
3	65.7425	53.08	PK	7.9	-28.4	32.58	40	-7.42	0-360	101	V
4	97.7025	52.93	PK	9.5	-28.1	34.33	43.52	-9.19	0-360	300	H
5	98.8075	48.44	PK	9.8	-28.1	30.14	43.52	-13.38	0-360	101	V
6	214.8	40.43	PK	10.6	-26.8	24.23	43.52	-19.29	0-360	200	V

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

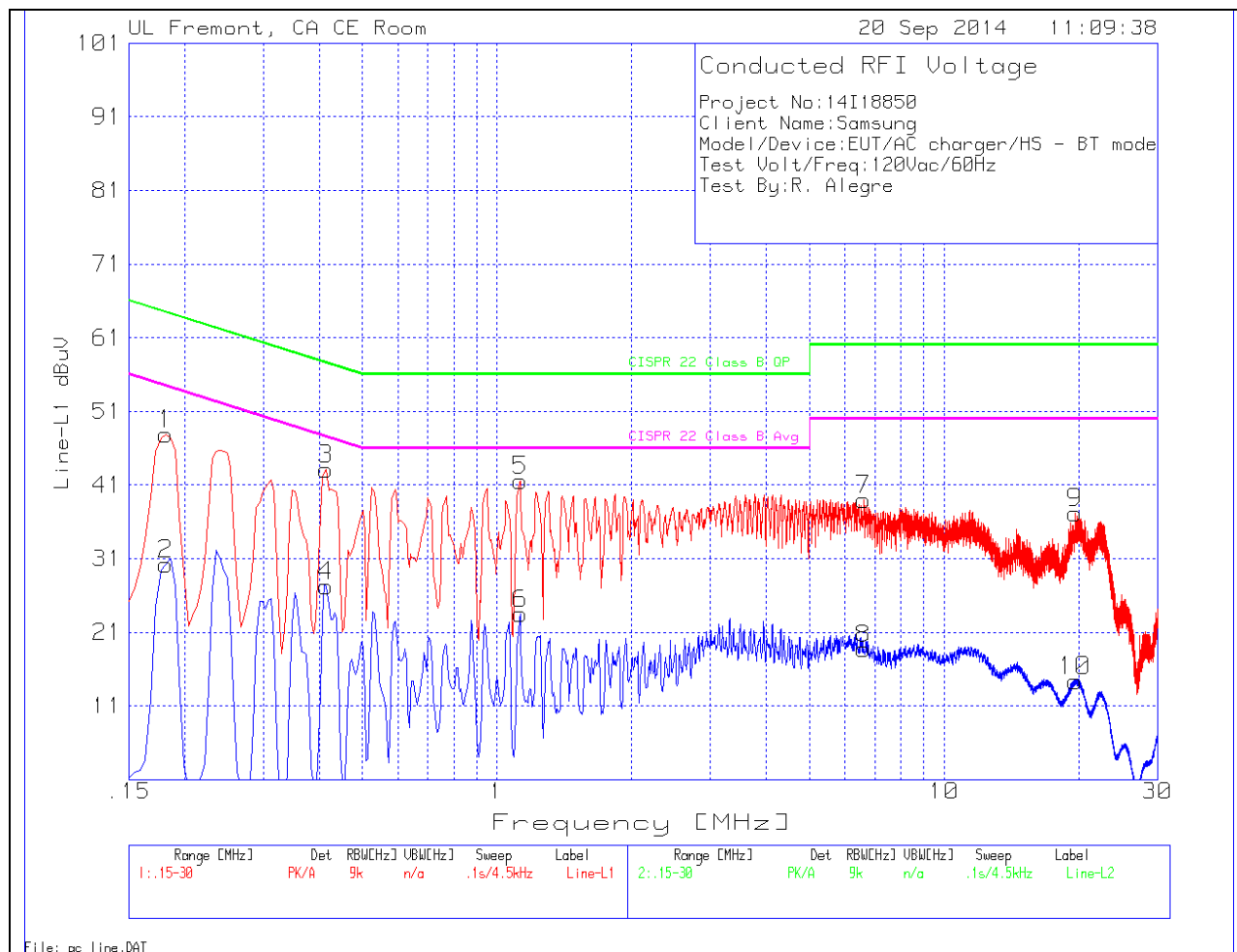
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

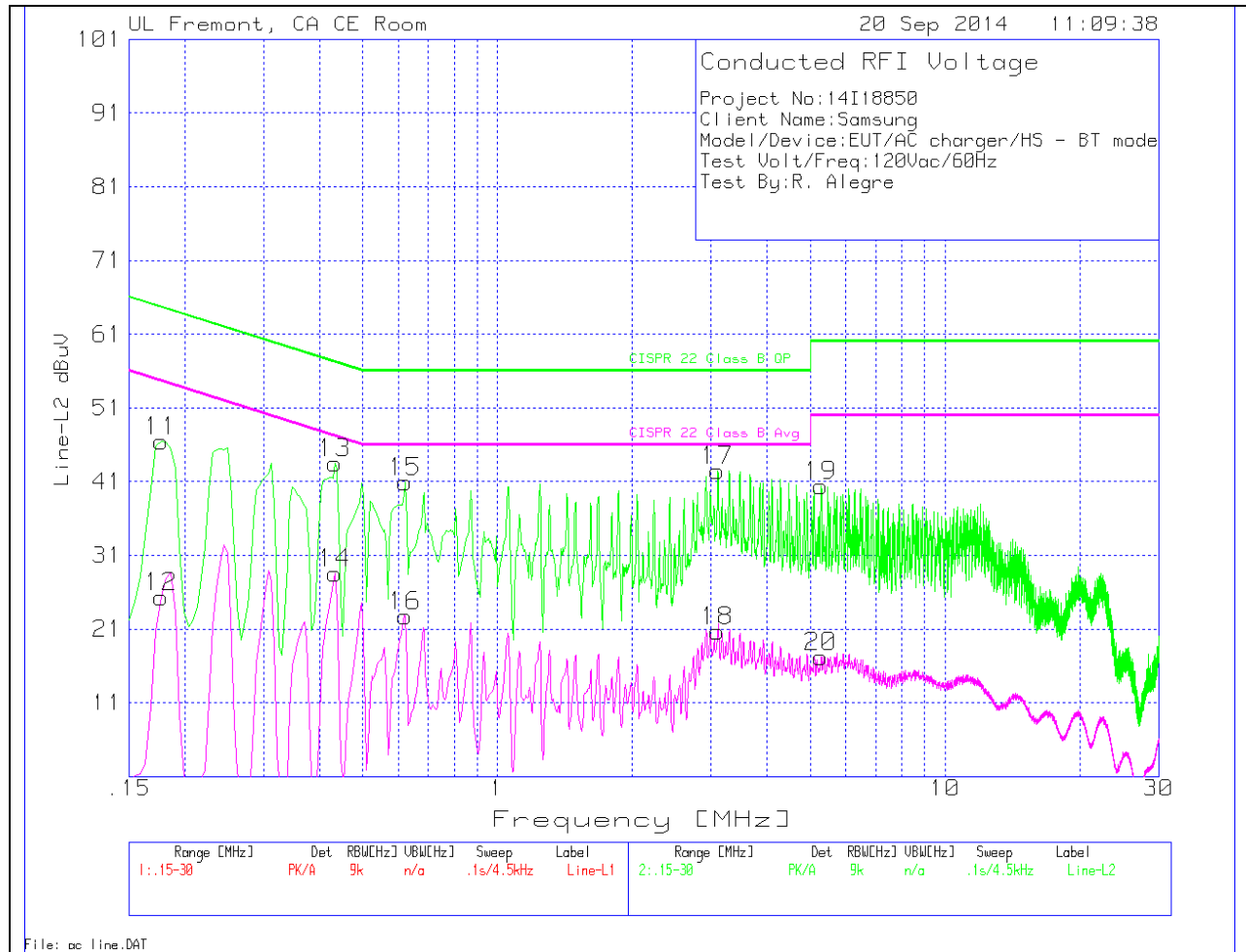
LINE 1 PLOT



LINE 1 RESULTS

Trace Markers										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.1815	46.77	PK	1.1	0	47.87	64.4	-16.53	-	-
2	.1815	29.12	Av	1.1	0	30.22	-	-	54.4	-24.18
3	.4155	42.76	PK	.4	0	43.16	57.5	-14.34	-	-
4	.4155	26.91	Av	.4	0	27.31	-	-	47.5	-20.19
5	1.1265	41.33	PK	.2	0	41.53	56	-14.47	-	-
6	1.1265	23.26	Av	.2	0	23.46	-	-	46	-22.54
7	6.612	38.65	PK	.2	.1	38.95	60	-21.05	-	-
8	6.612	18.39	Av	.2	.1	18.69	-	-	50	-31.31
9	19.662	36.65	PK	.3	.2	37.15	60	-22.85	-	-
10	19.662	13.82	Av	.3	.2	14.32	-	-	50	-35.68

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
11	.177	45.23	PK	1.2	0	46.43	64.6	-18.17	-	-
12	.177	24.11	Av	1.2	0	25.31	-	-	54.6	-29.29
13	.4335	43.09	PK	.4	0	43.49	57.2	-13.71	-	-
14	.4335	28.16	Av	.4	0	28.56	-	-	47.2	-18.64
15	.6225	40.62	PK	.3	0	40.92	56	-15.08	-	-
16	.6225	22.44	Av	.3	0	22.74	-	-	46	-23.26
17	3.1065	42.16	PK	.2	.1	42.46	56	-13.54	-	-
18	3.1065	20.37	Av	.2	.1	20.67	-	-	46	-25.33
19	5.28	40.1	PK	.2	.1	40.4	60	-19.6	-	-
20	5.28	16.92	Av	.2	.1	17.22	-	-	50	-32.78