



FCC 47 CFR PART 15 SUBPART C

**CERTIFICATION TEST REPORT
FOR**

**GSM Phone + Bluetooth & WLAN 2.4GHz b/g/n
MODEL NUMBER: SM-G130E**

FCC ID: A3LSMG130E

REPORT NUMBER: 14I17842-2

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NVLAP LAB CODE 200065-0

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM Phone + Bluetooth & WLAN 2.4GHz b/g/n
MODEL: SM-G130E
SERIAL NUMBER: RV1F50PX3TT, RV1F50PX3XJ, RV1F50PX3WZ (Radiated),
RV1F52W0HMX (Conducted)
DATE TESTED: May 21 - 30, 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	☐ Chamber D
☒ Chamber B	☐ Chamber E
☐ Chamber C	☐ Chamber F

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 Phone + Bluetooth & WLAN 2.4GHz b/g/n.

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	11.42	13.87
2402 - 2480	Enhanced 8PSK	9.96	9.91

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 -1.26 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	SM-G130E	N/A	N/A
Earphone	Samsung	SM-G130E	N/A	N/A

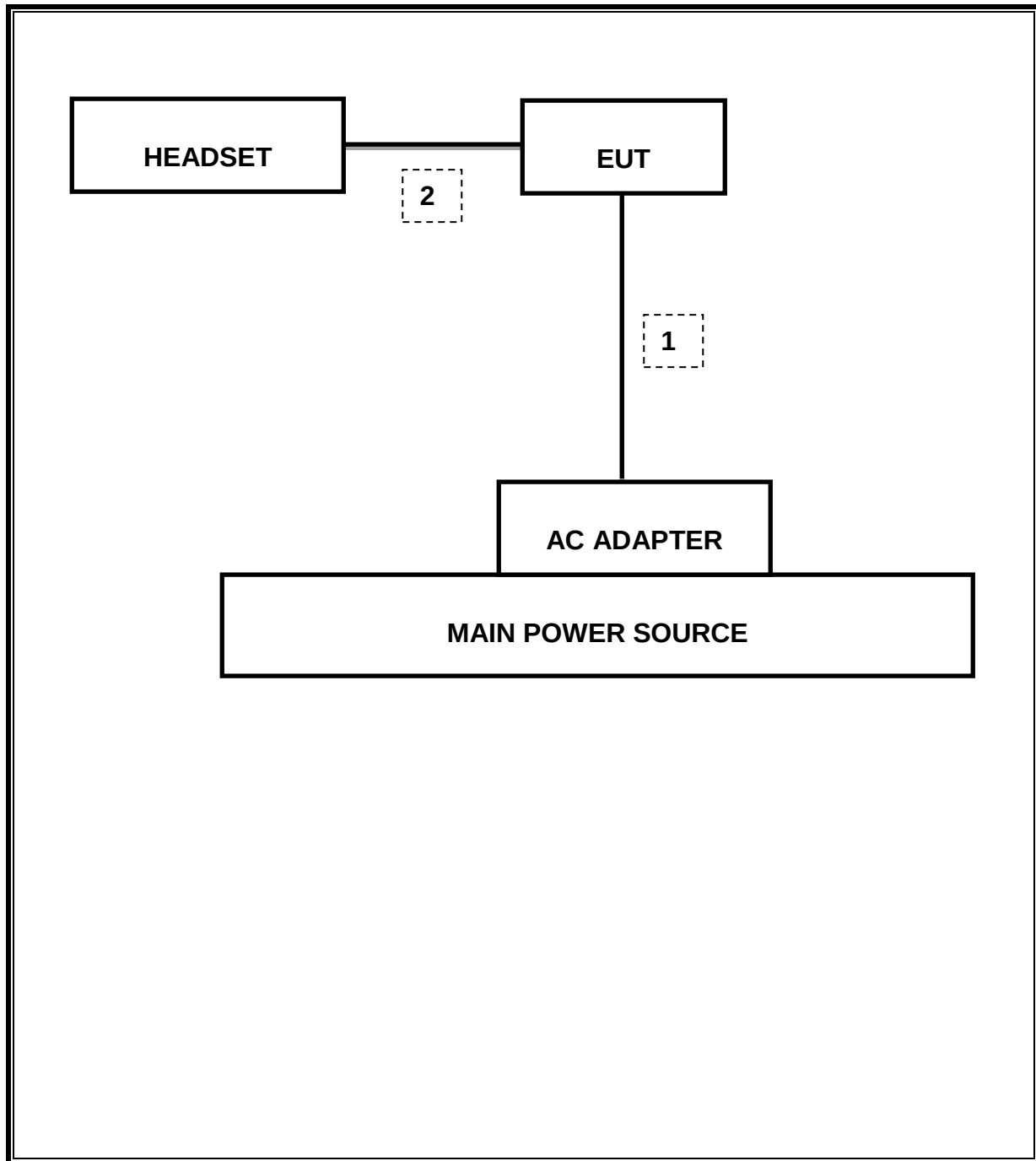
I/O CABLES

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	07/12/14
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	1.158 MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-38.65 dBm
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	11.42 dBm
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	1 MHz
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	0.375 s
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	43.43 dBuV
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	45.9 dBuV/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.

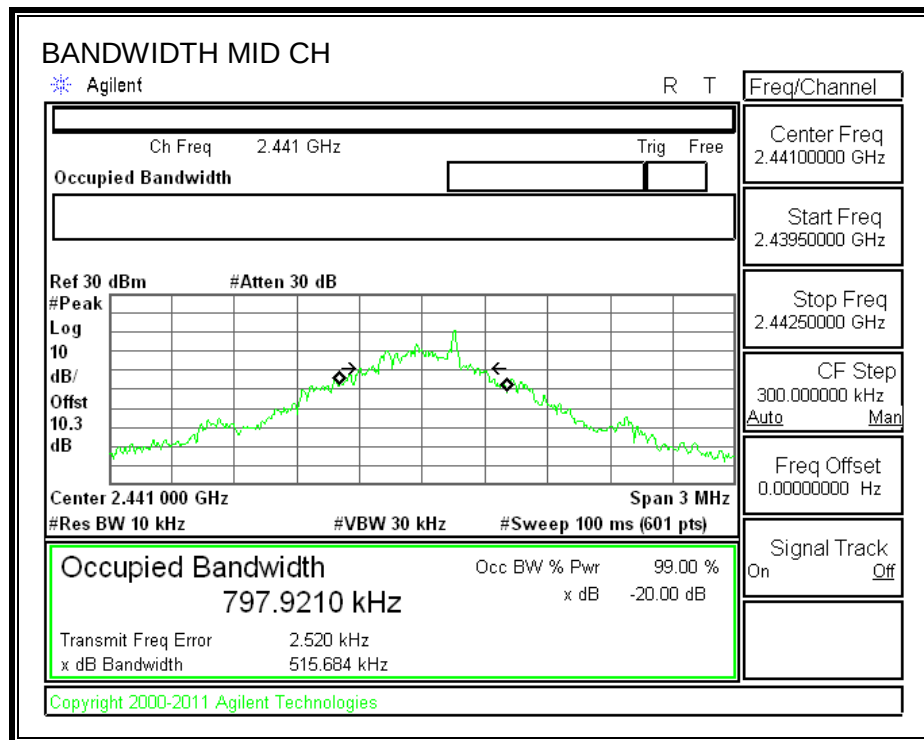
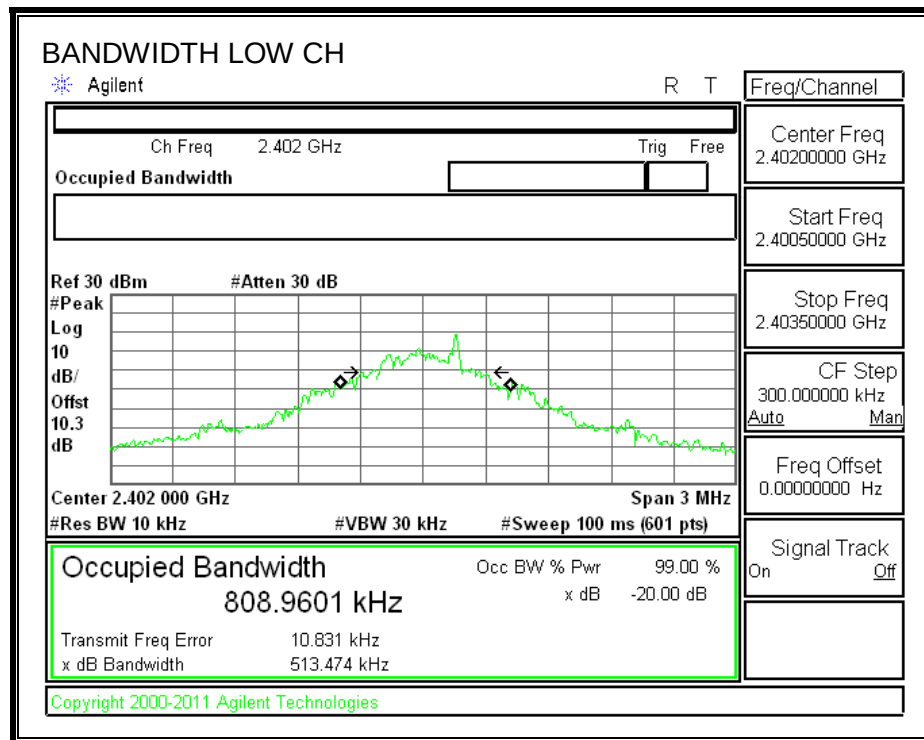
RESULTS

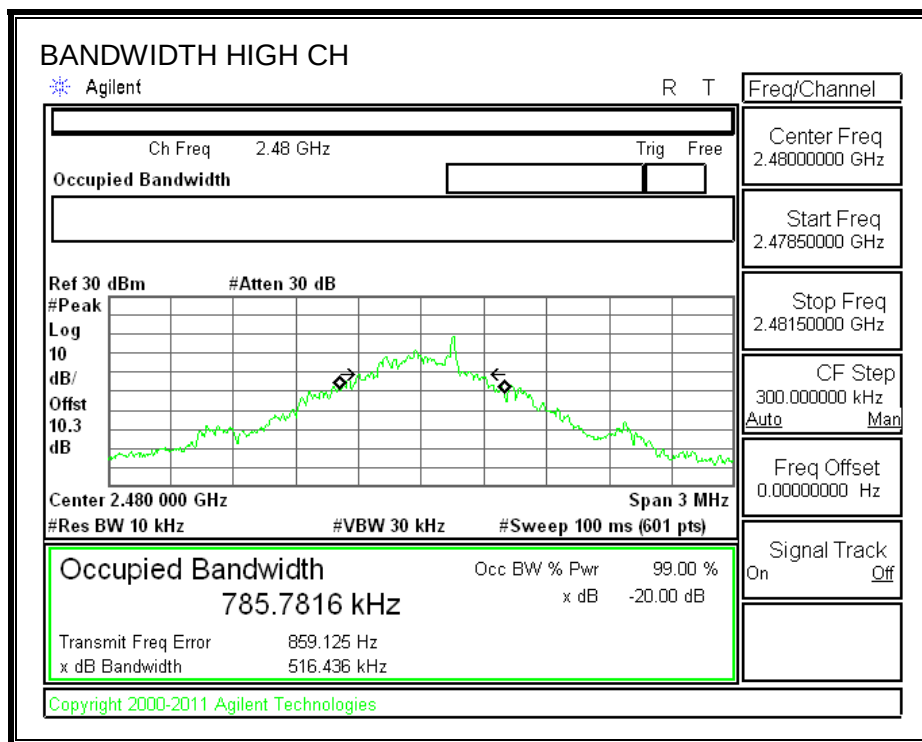
8.1.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	0.5135	0.3406
Middle	2441	0.5157	0.561
High	2480	0.5164	0.3658
Worst		0.5164	0.561

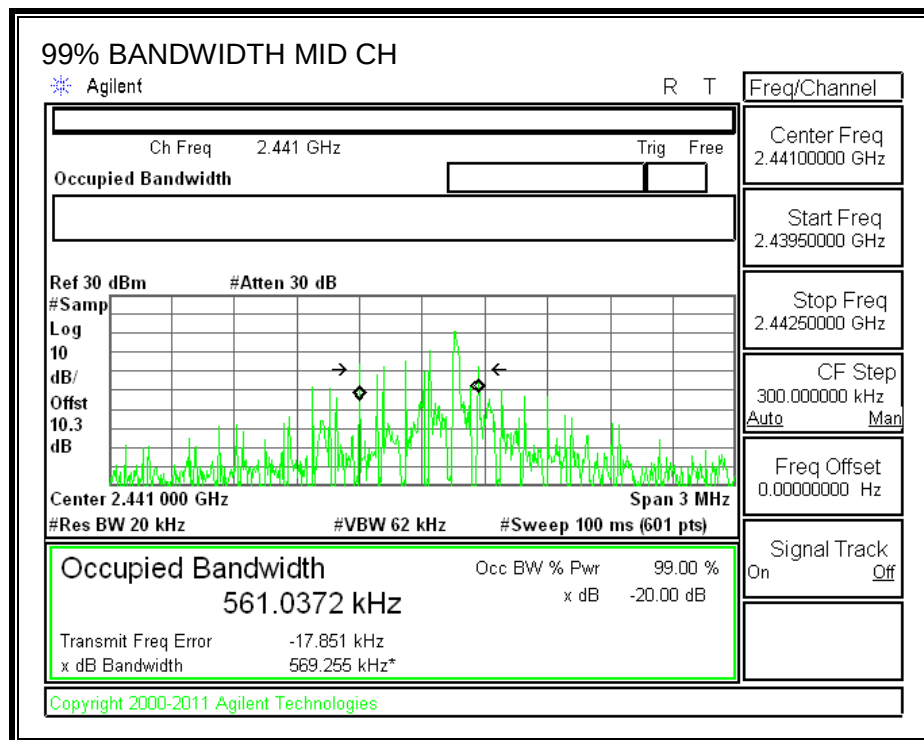
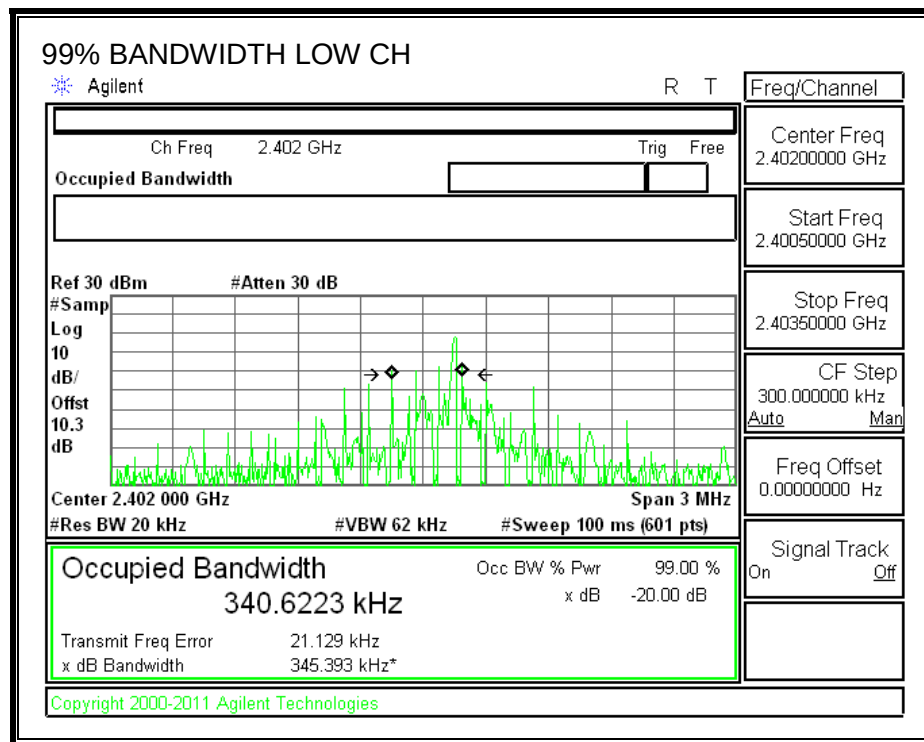
8.1.1. ENHANCED DATA RATE 8PSK MODULATION

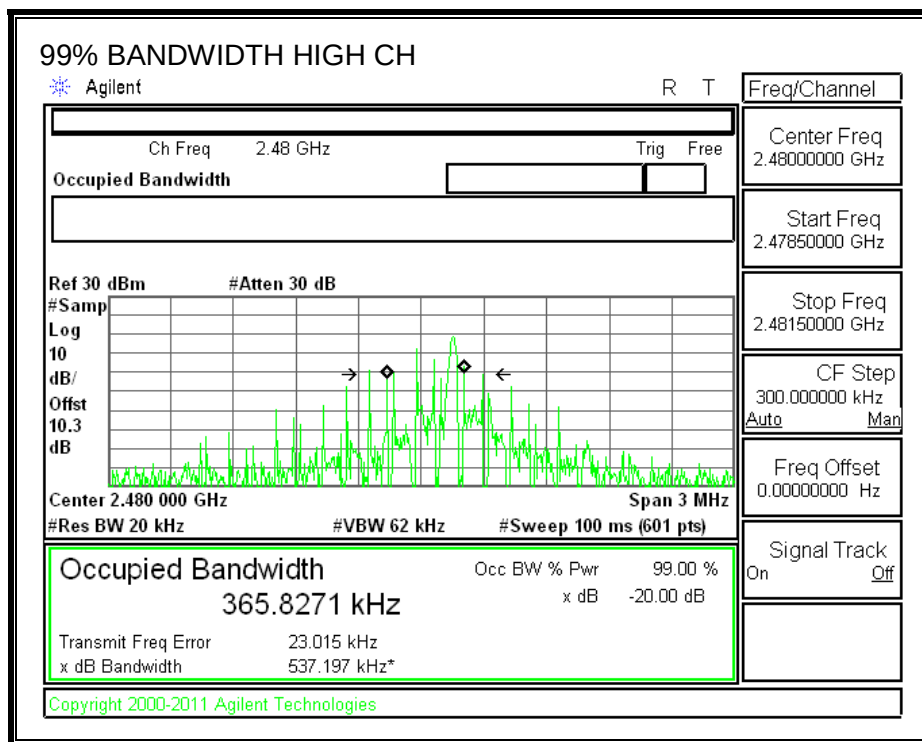
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.051	1.092
Middle	2441	1.052	1.098
High	2480	1.053	1.158
Worst		1.053	1.158

GFSK 20 dB BANDWIDTH

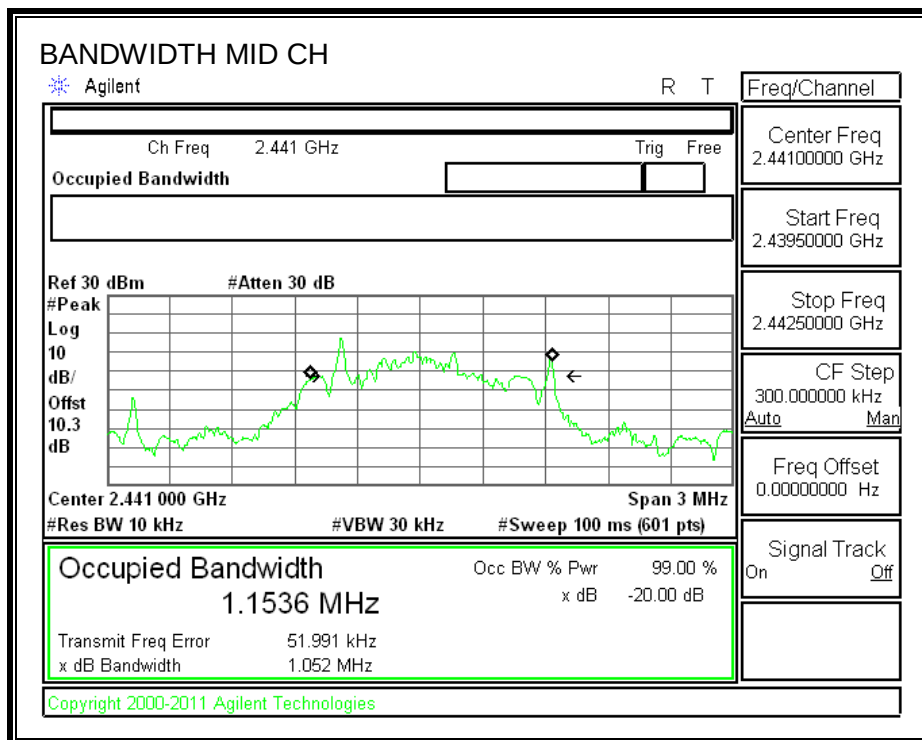
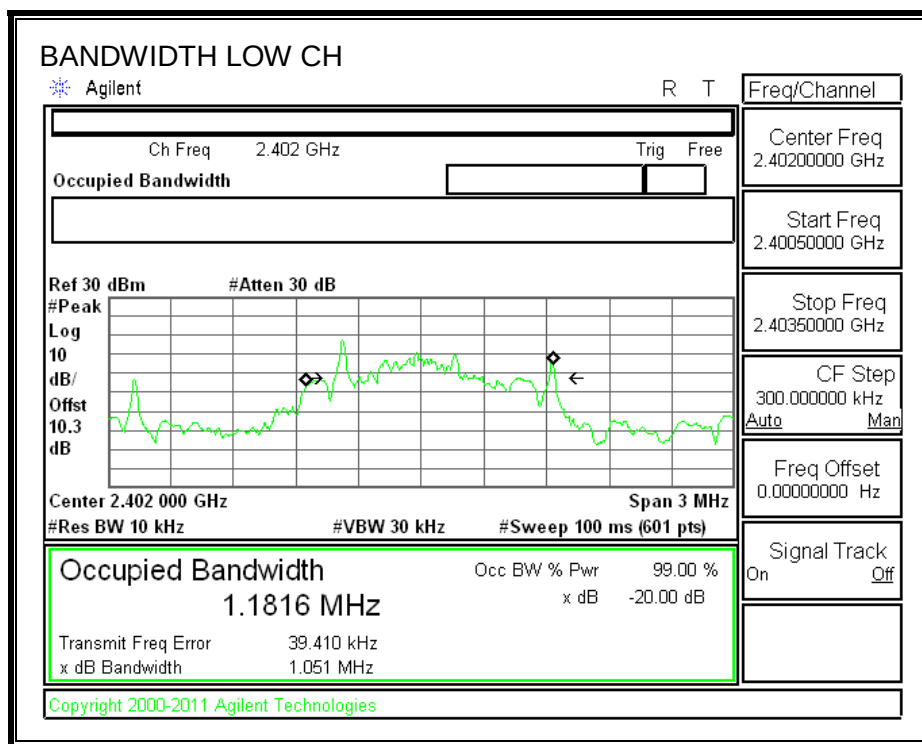


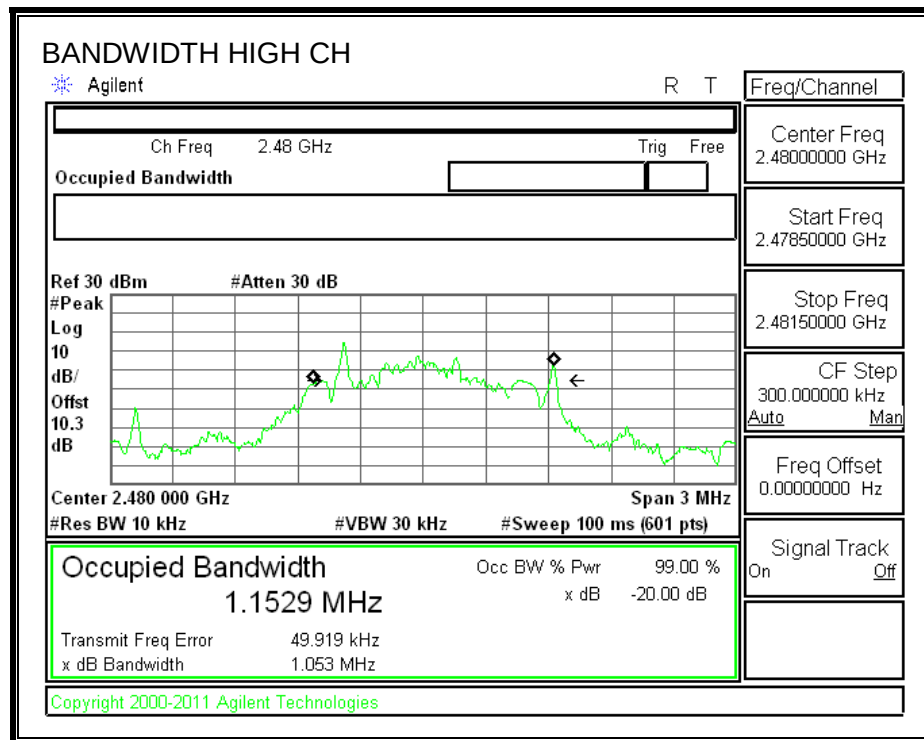
GFSK 99% BANDWIDTH



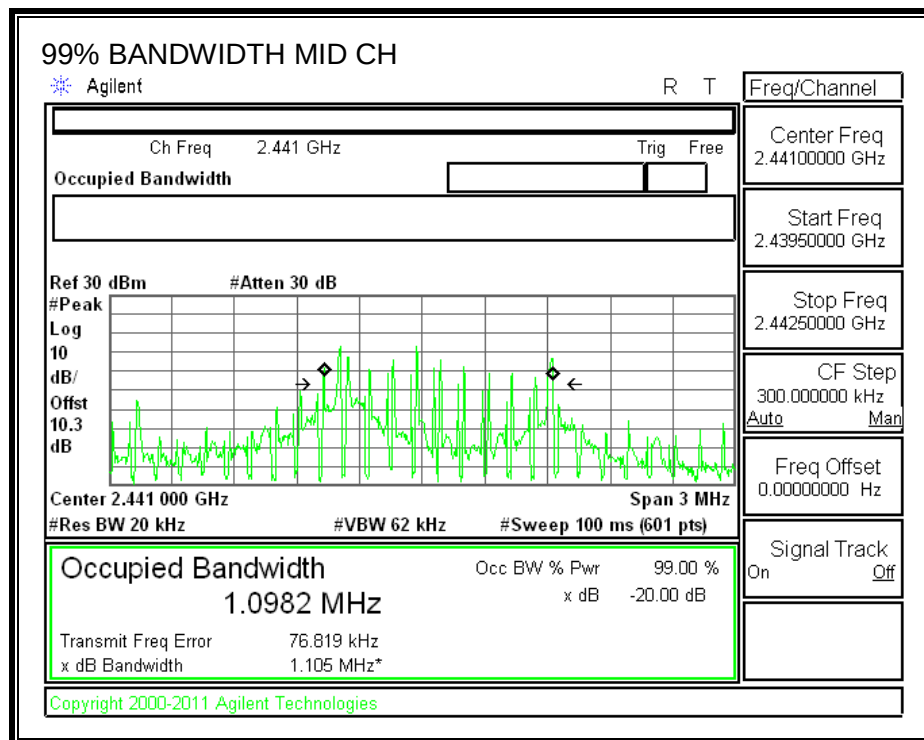
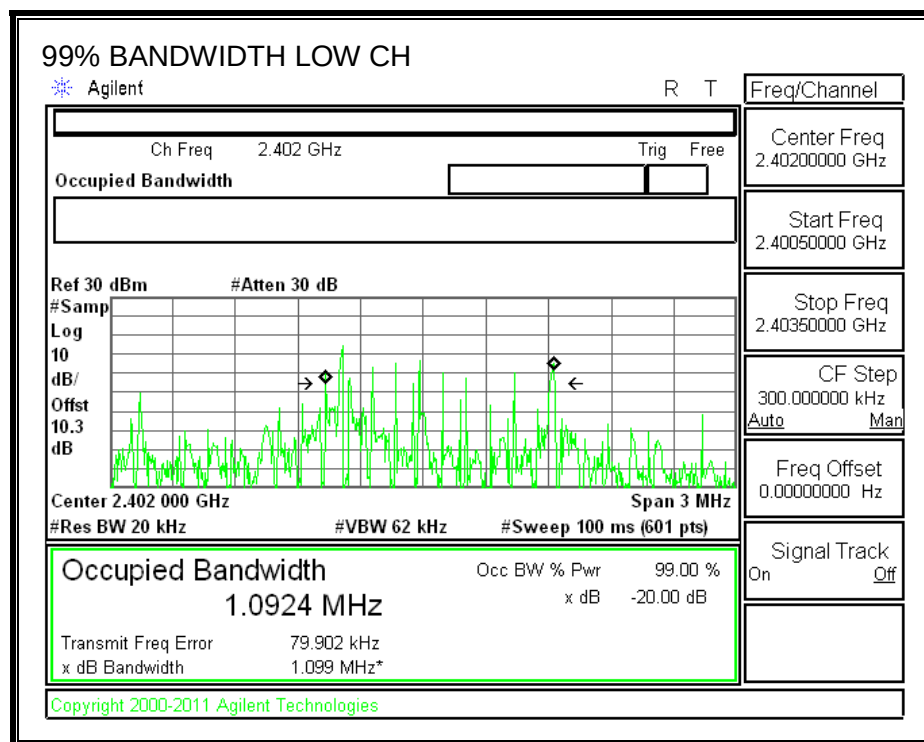


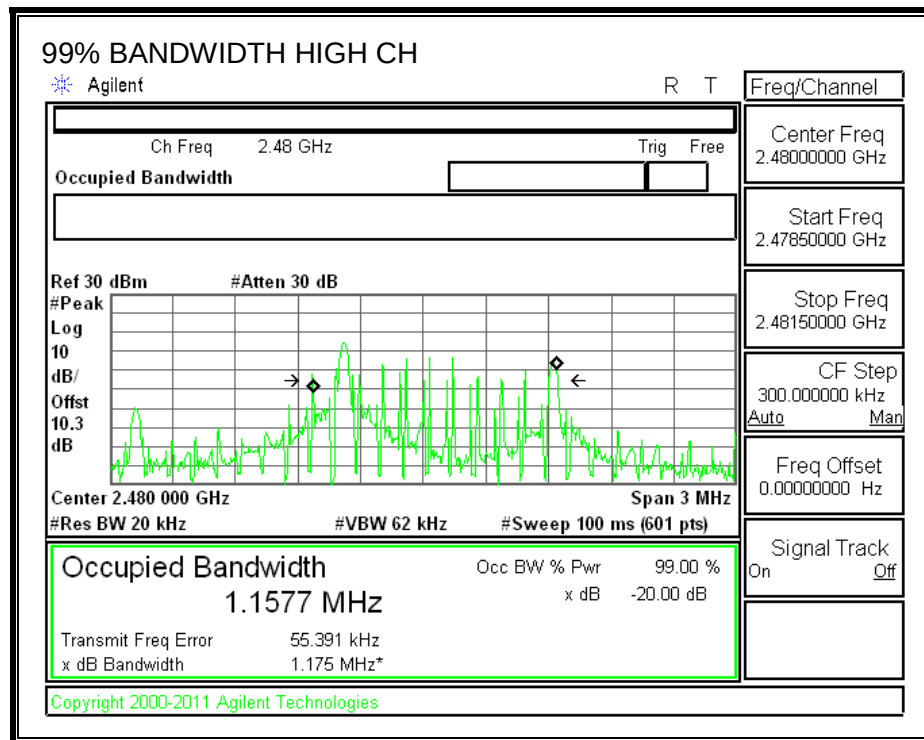
8PSK 20 dB BANDWIDTH





8PSK 99% BANDWIDTH





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.

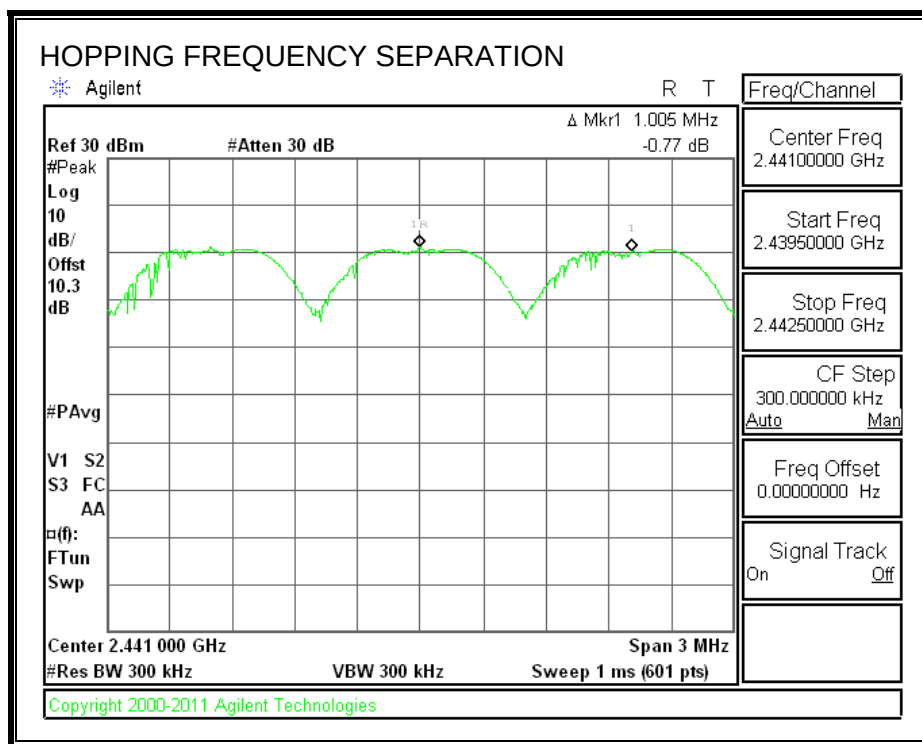
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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



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.

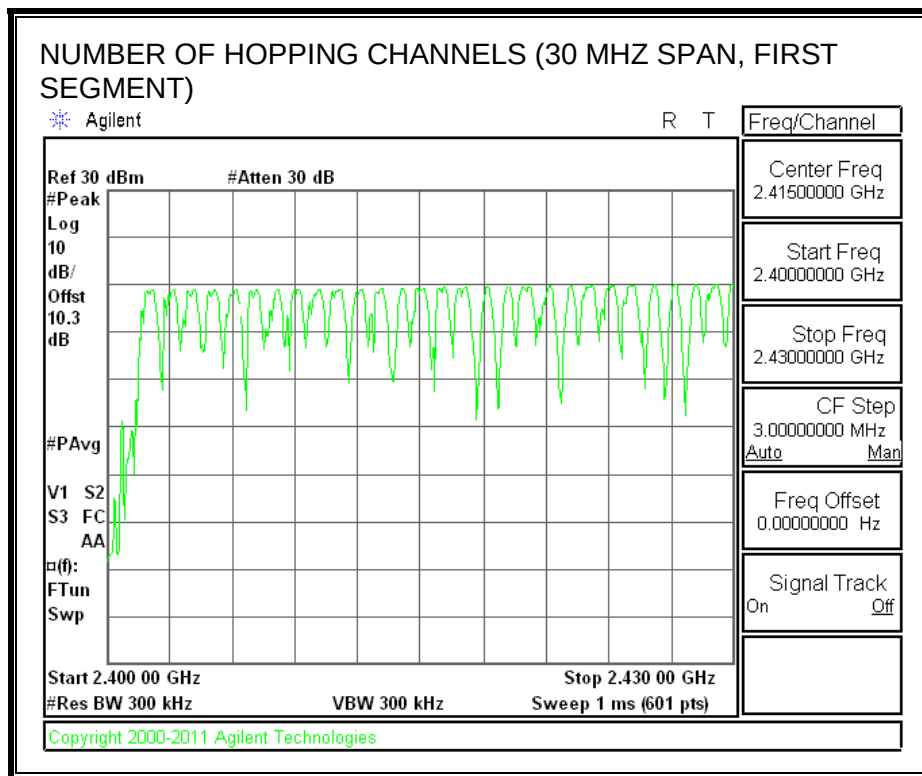
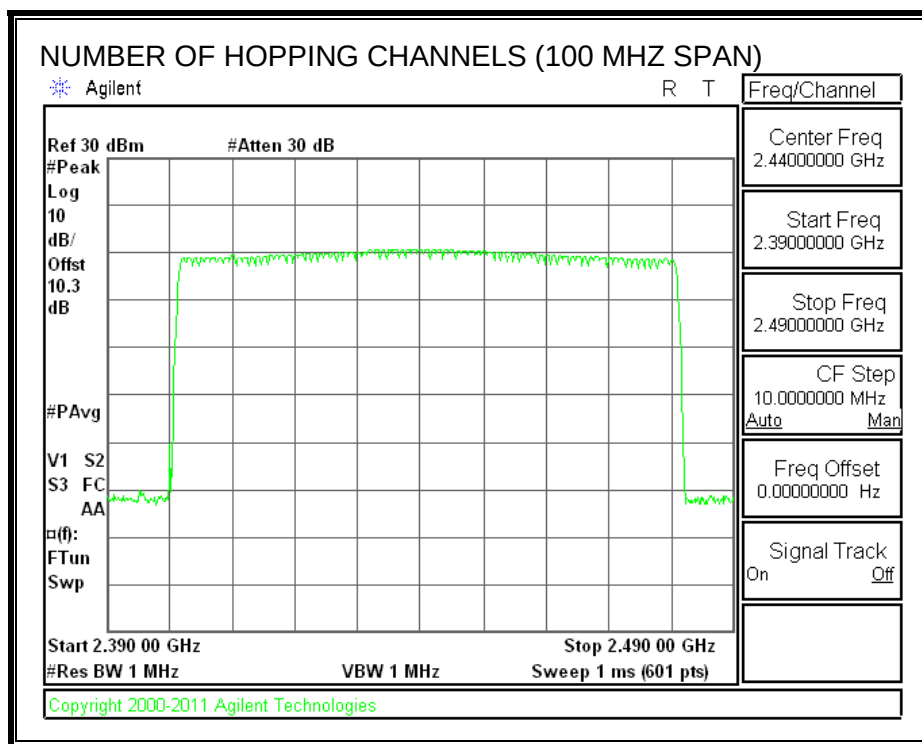
TEST PROCEDURE

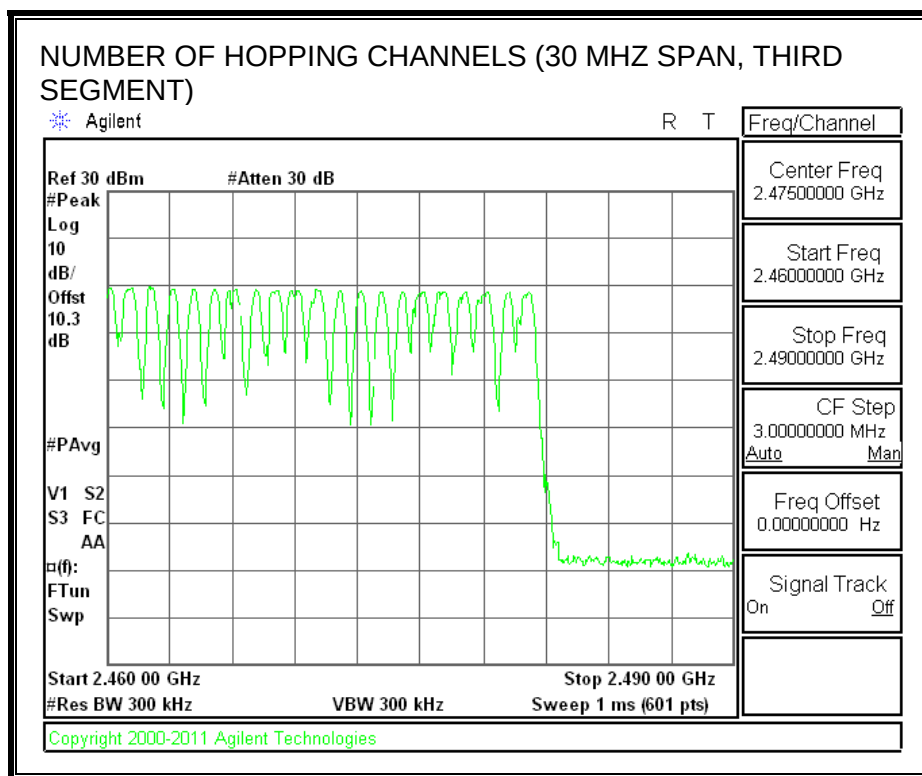
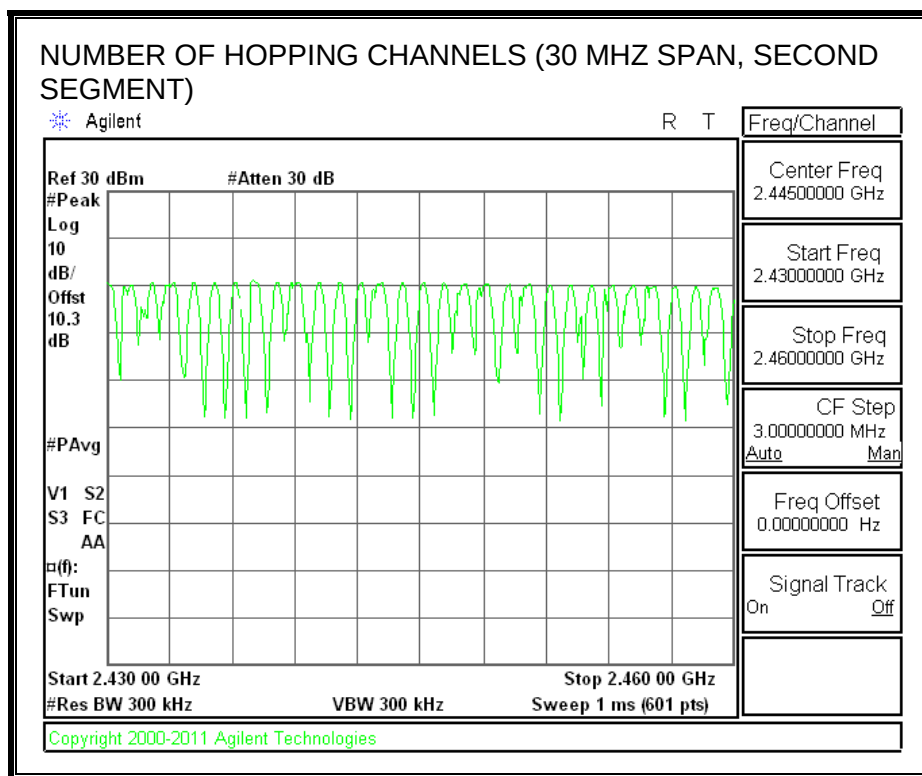
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS





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.

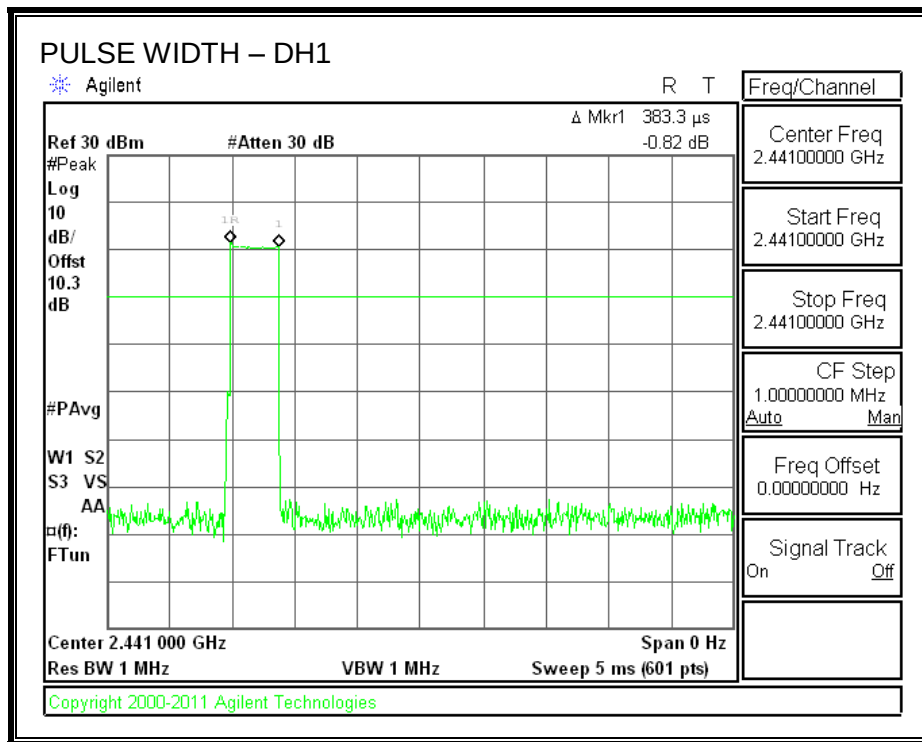
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

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

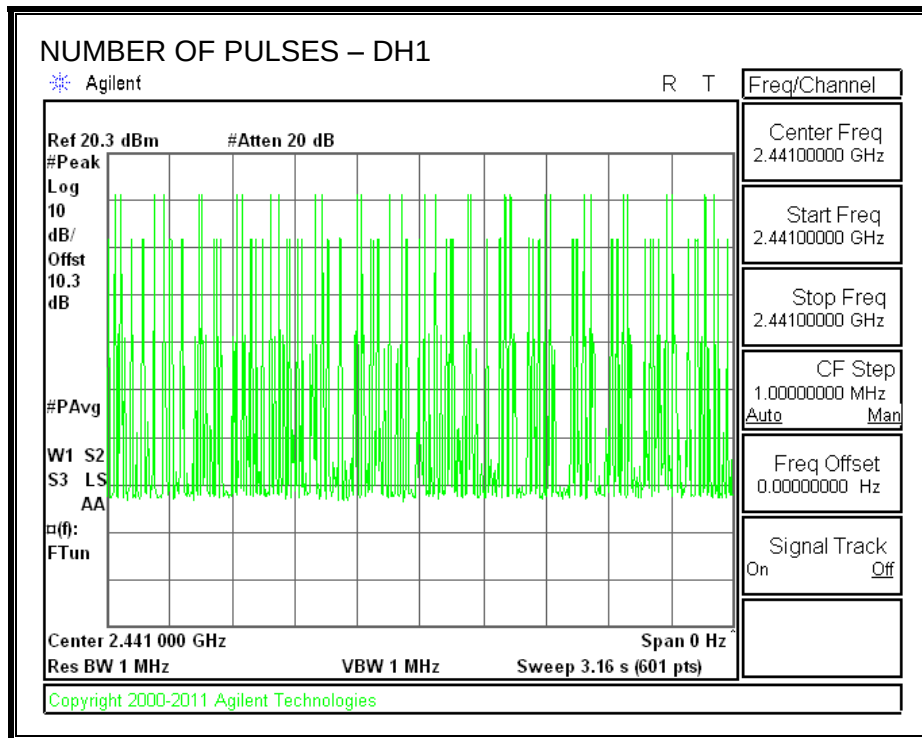
RESULTS

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	0.3833	30	0.115	0.4	-0.285
DH3	1.642	15	0.246	0.4	-0.154
DH5	2.883	13	0.375	0.4	-0.025
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	0.3833	8	0.031	0.4	-0.369
DH3	1.642	4	0.066	0.4	-0.334
DH5	2.883	3	0.086	0.4	-0.314

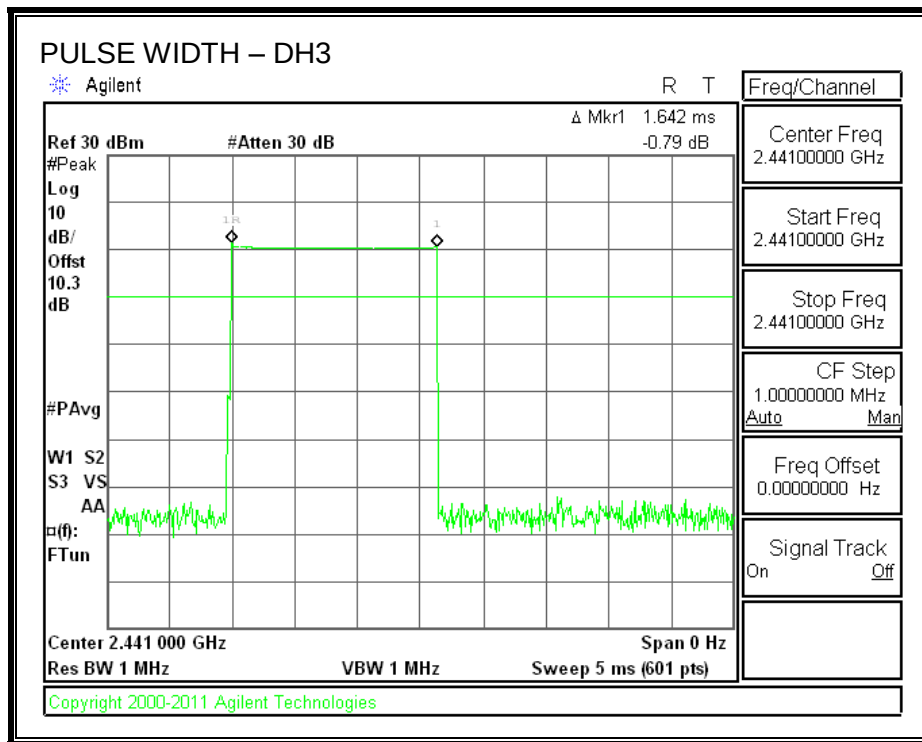
PULSE WIDTH - DH1



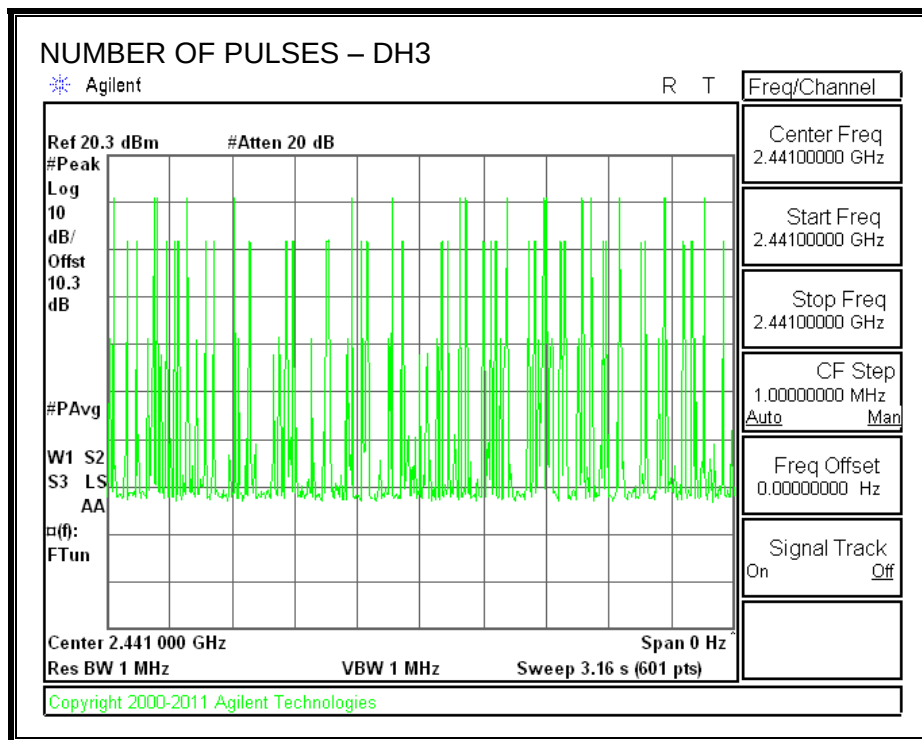
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



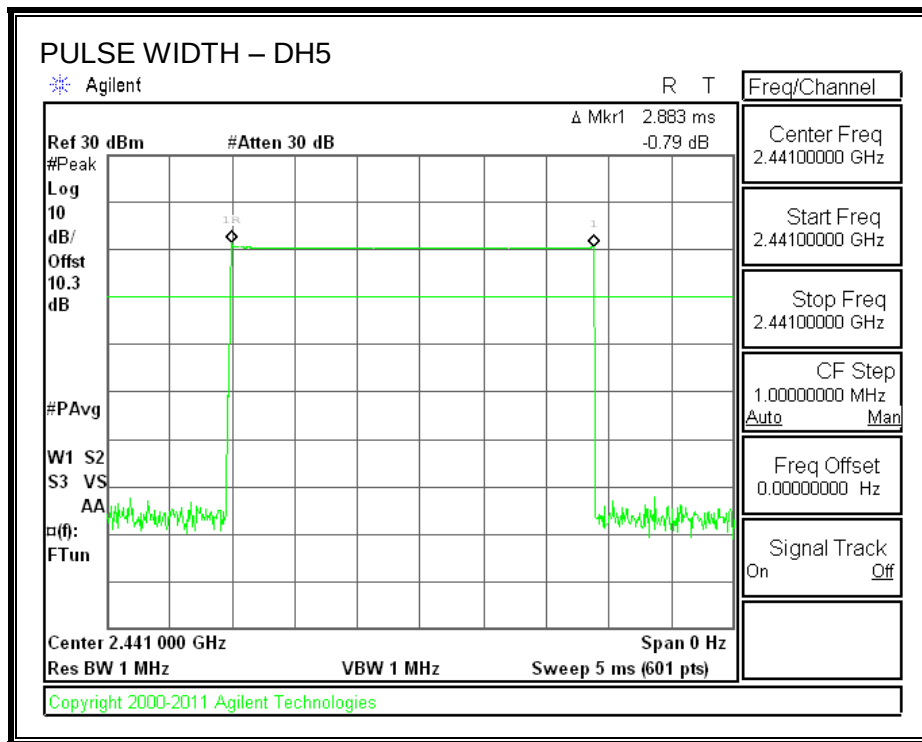
PULSE WIDTH – DH3



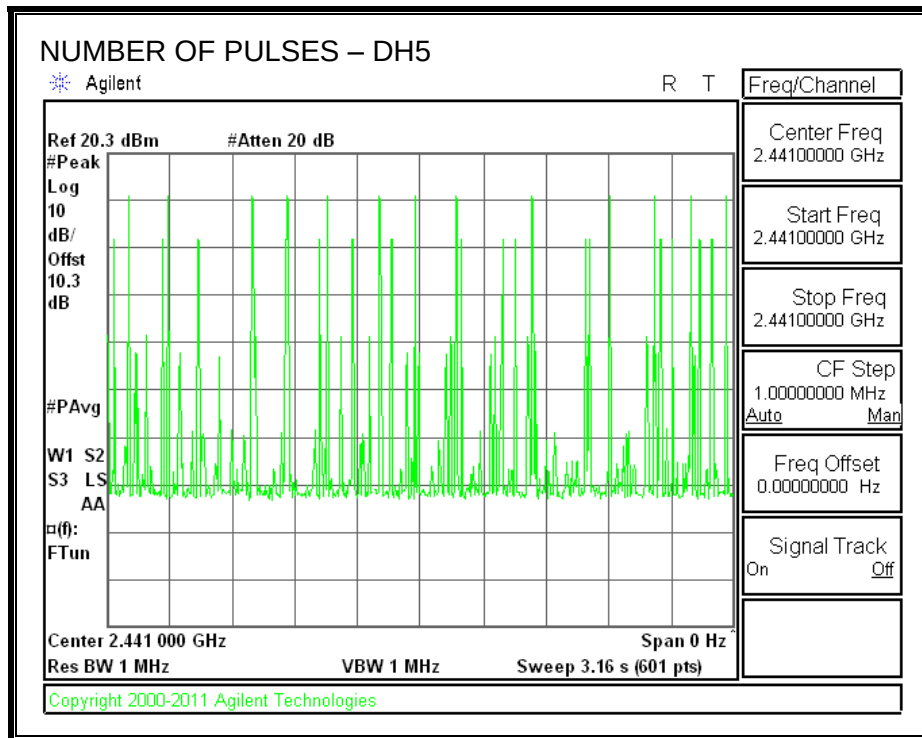
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – DH3



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.

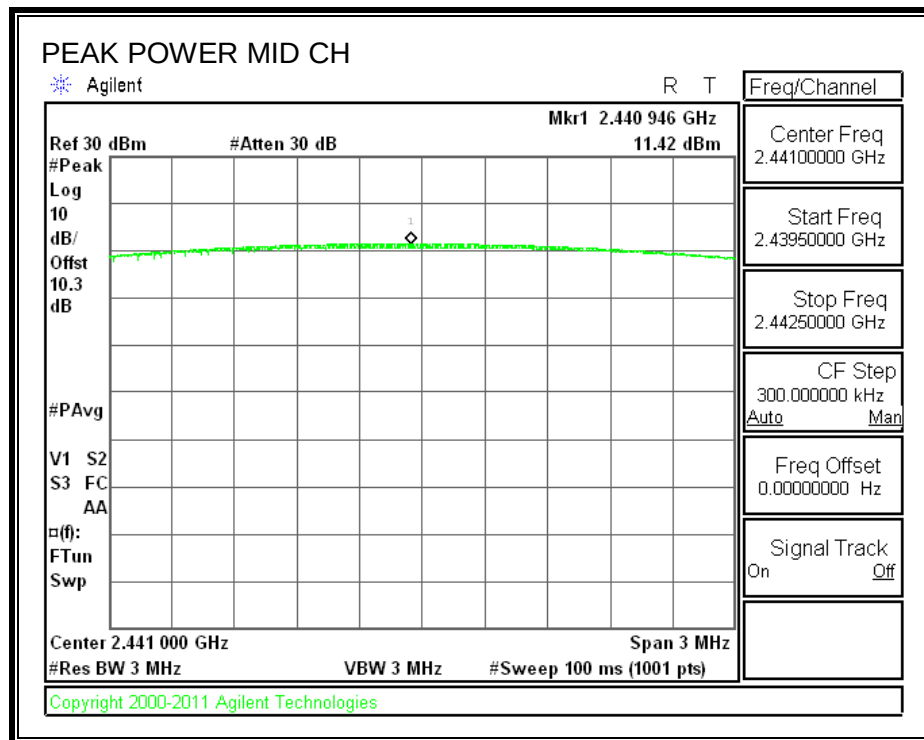
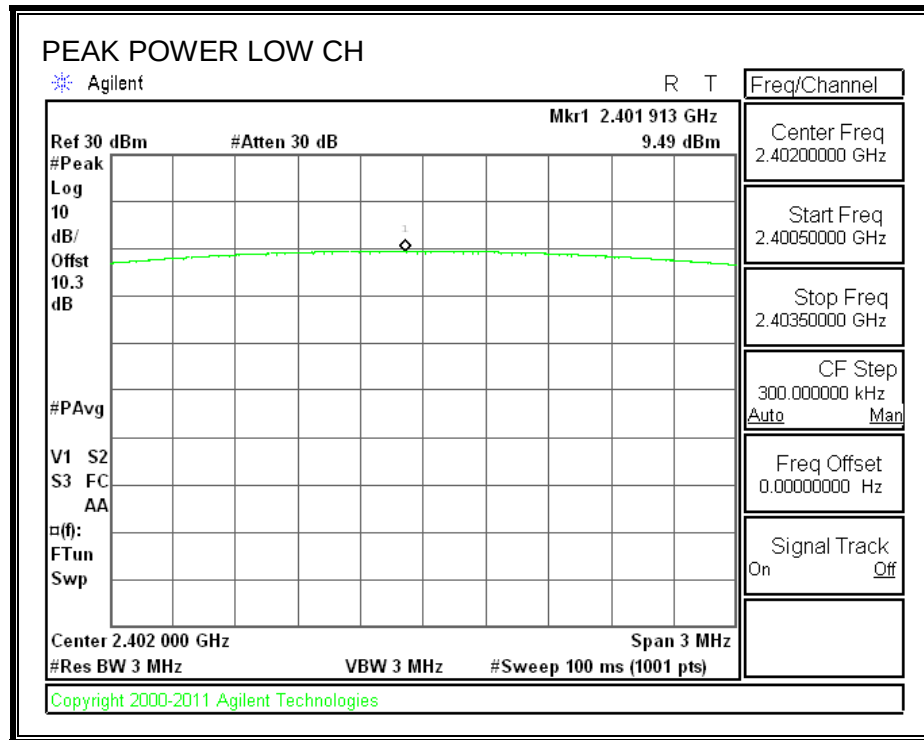
RESULTS

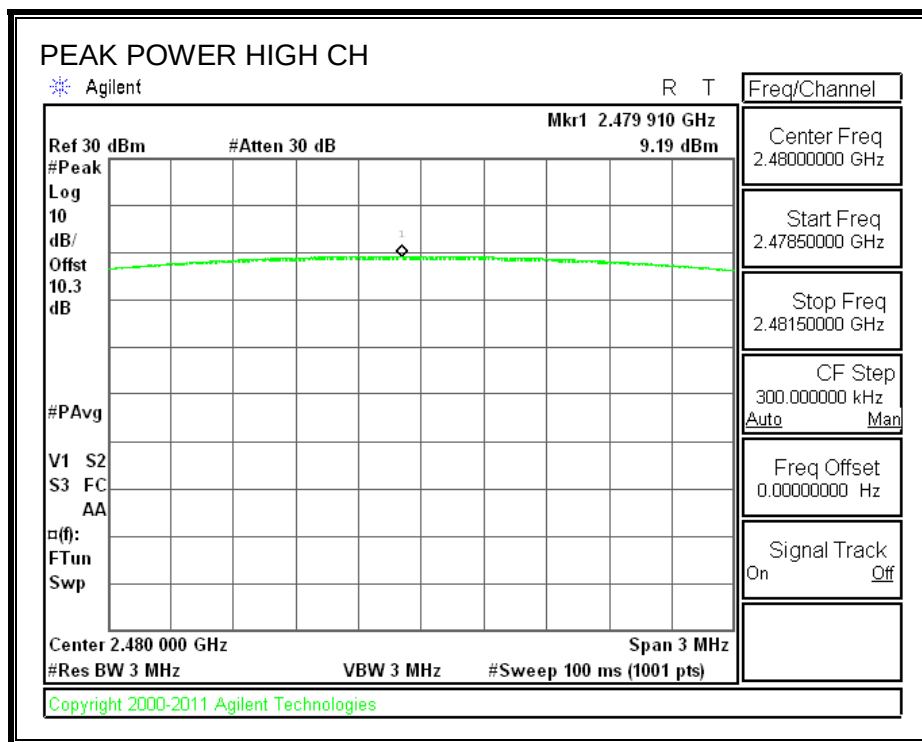
8.5.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	9.49	21	-11.51
Middle	2441	11.42	21	-9.58
High	2480	9.19	21	-11.81
Worst		11.42		-9.58

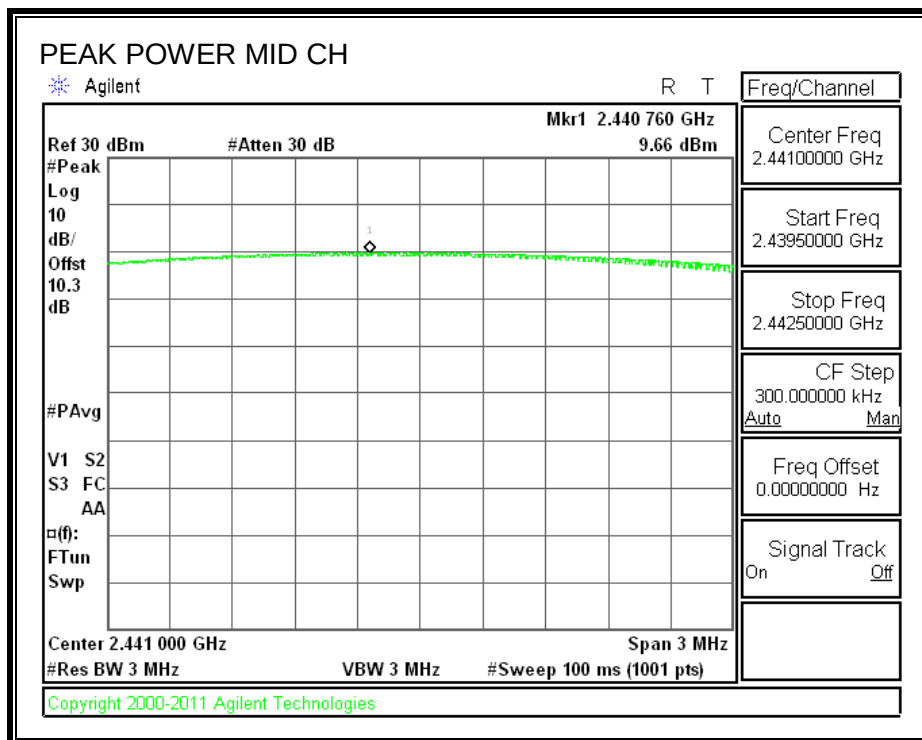
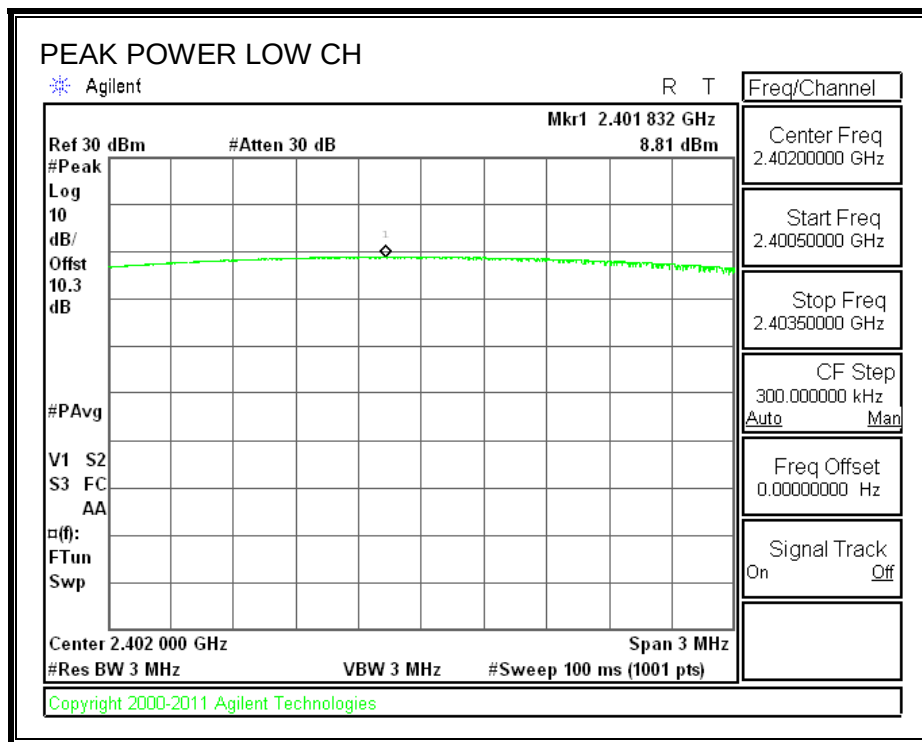
8.5.2. ENHANCED DATA RATE 8PSK MODULATION

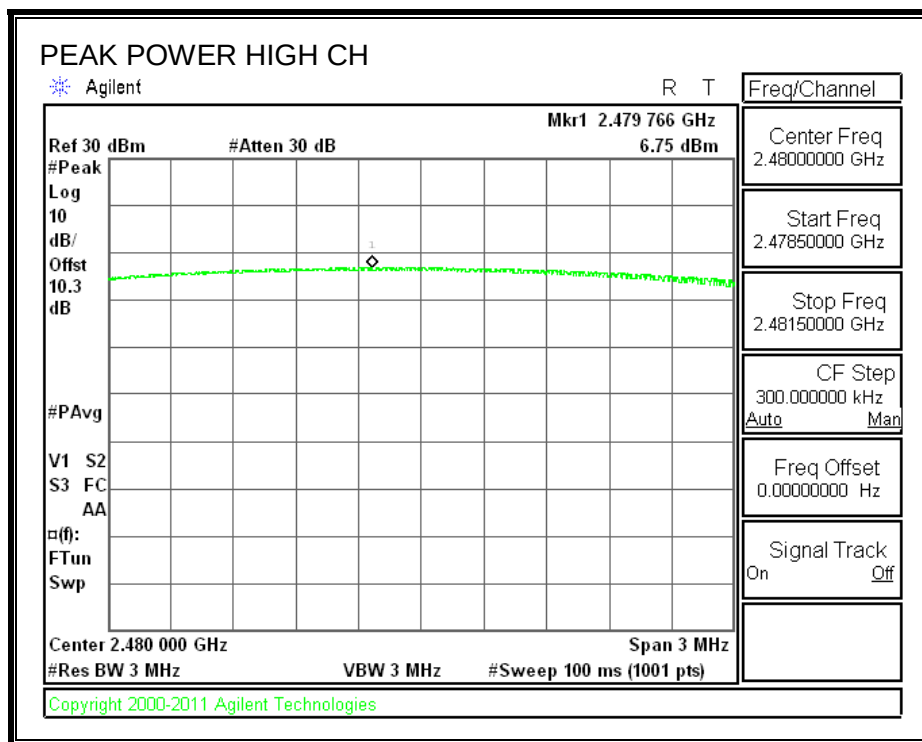
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	8.81	21	-12.19
Middle	2441	9.96	21	-11.04
High	2480	6.75	21	-14.25
Worst		9.96		-11.04

GFSK OUTPUT POWER



8PSK OUTPUT POWER





8.6. AVERAGE POWER

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

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

RESULTS

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.

8.6.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	9.20
Middle	2441	9.40
High	2480	8.30
Worst		9.40

8.6.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	7.90
Middle	2441	7.60
High	2480	4.90
Worst		7.90

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.

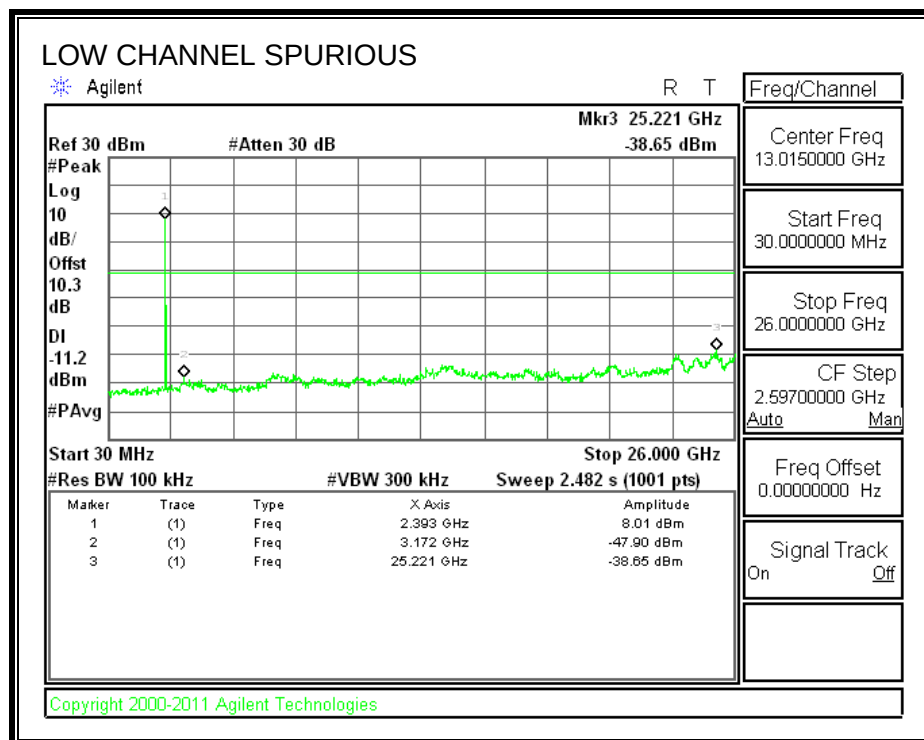
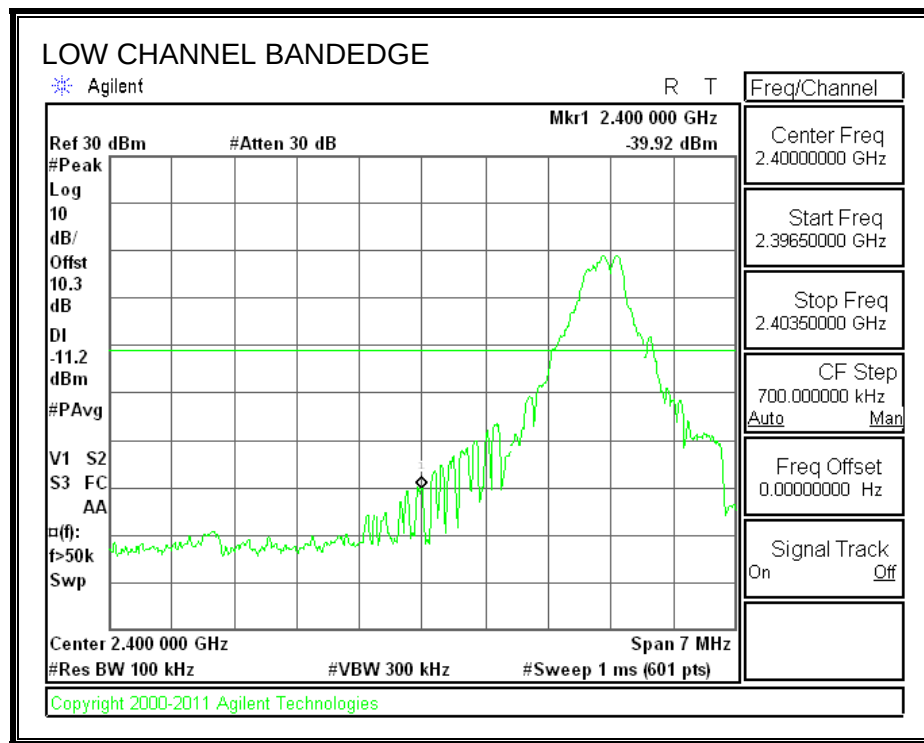
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

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

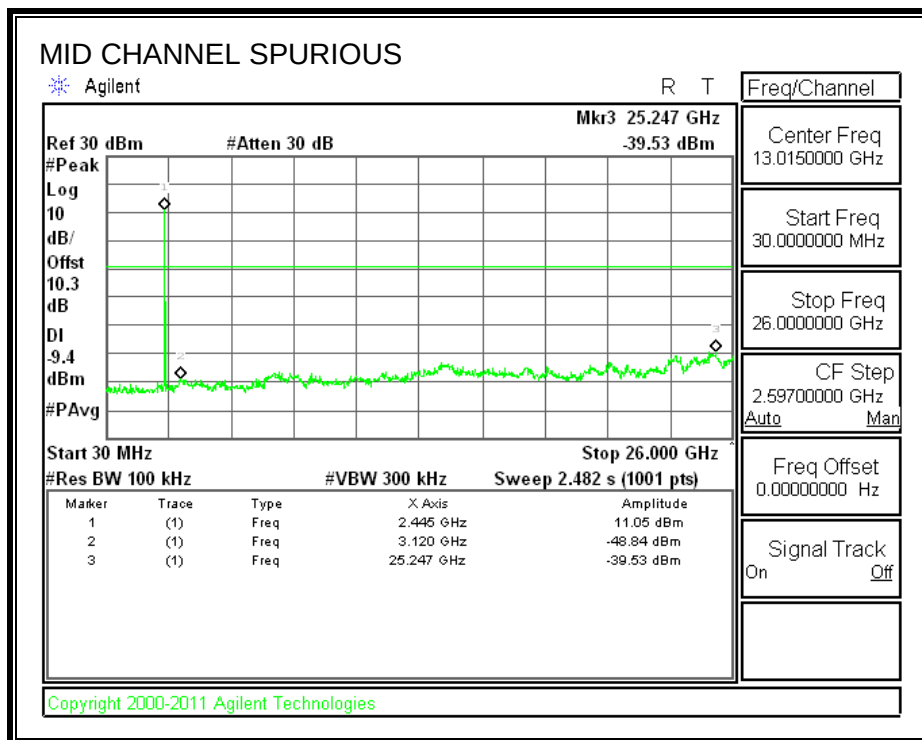
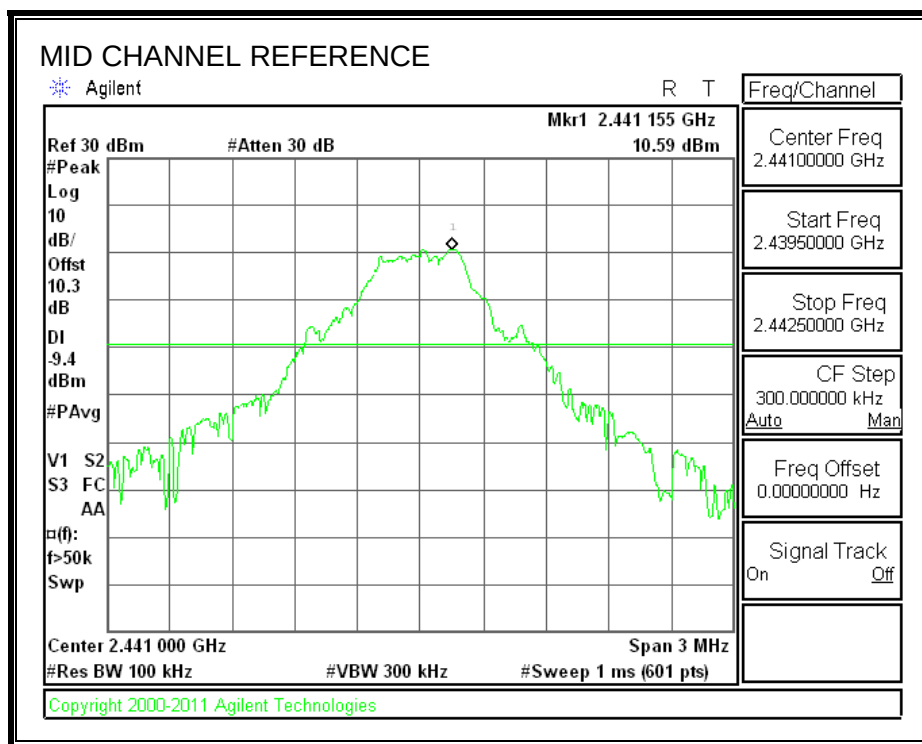
RESULTS

8.7.1. BASIC DATA RATE GFSK MODULATION

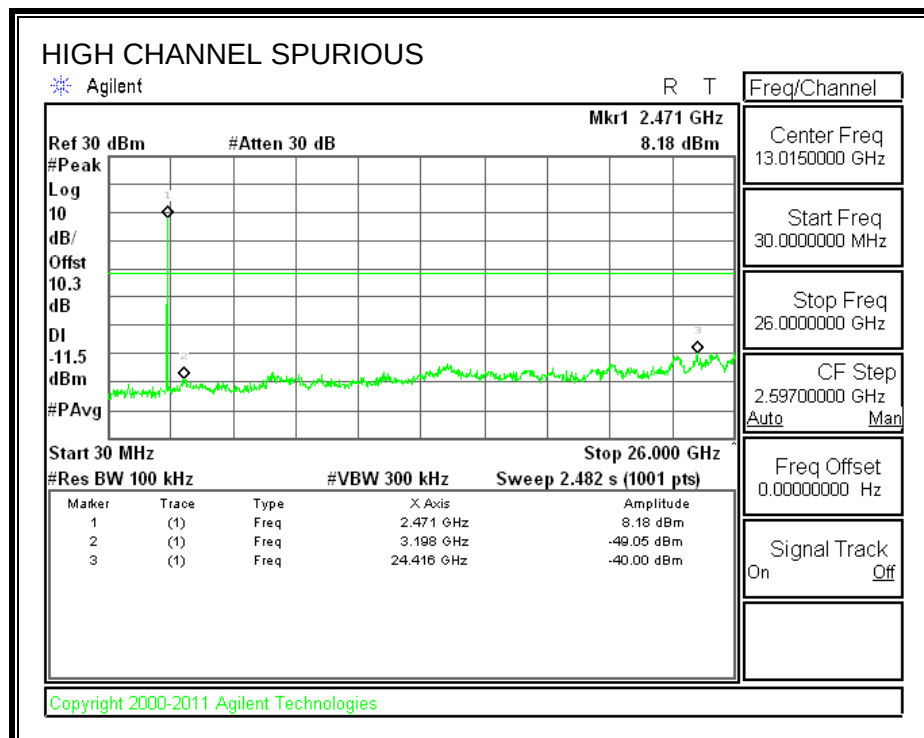
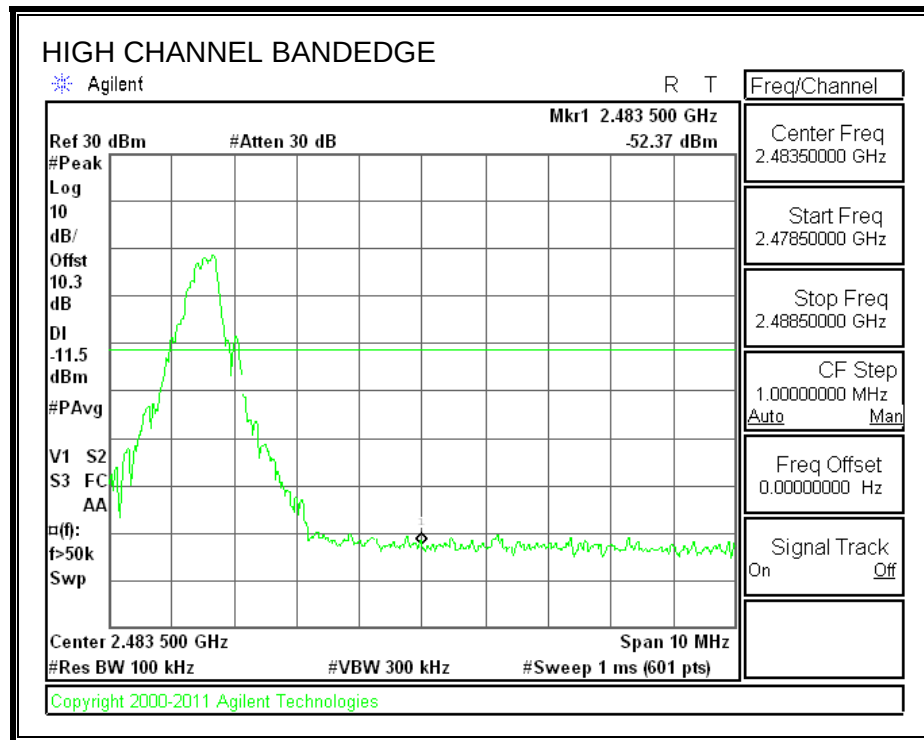
SPURIOUS EMISSIONS, LOW CHANNEL



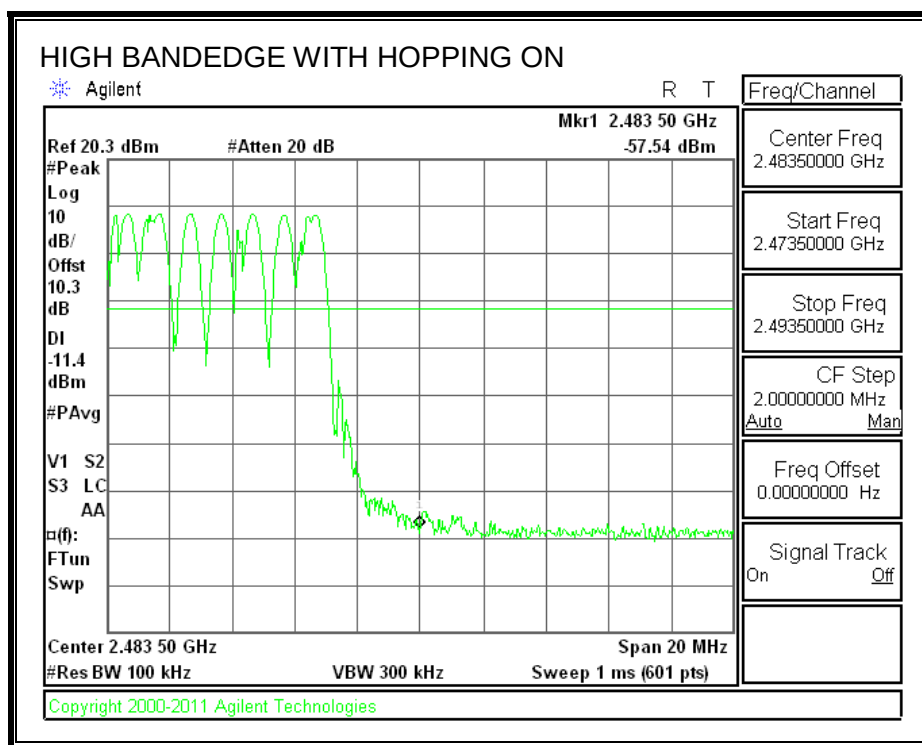
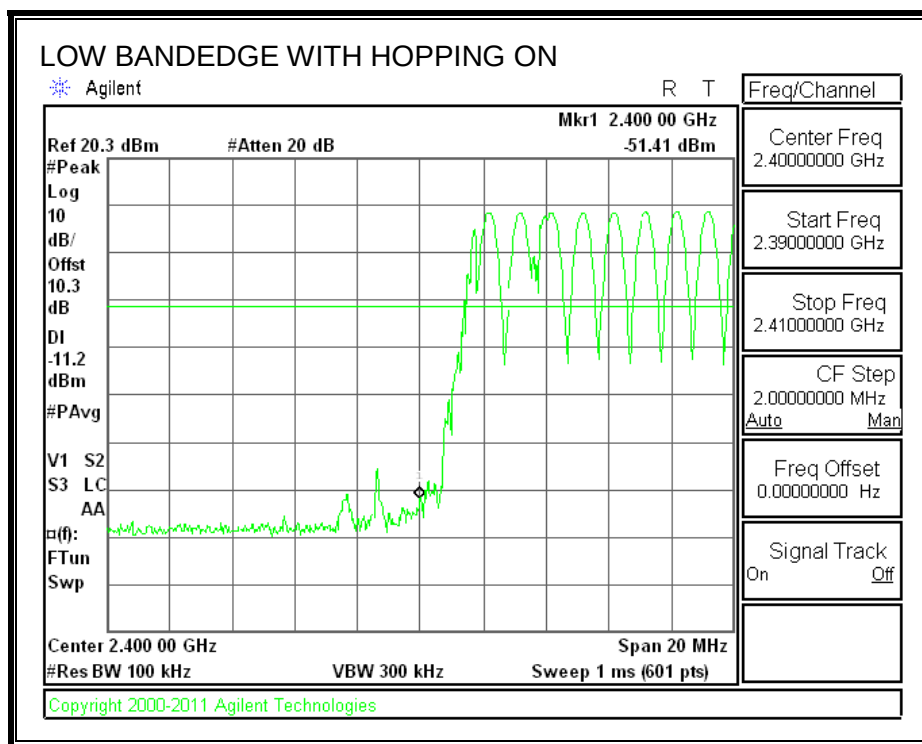
SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL

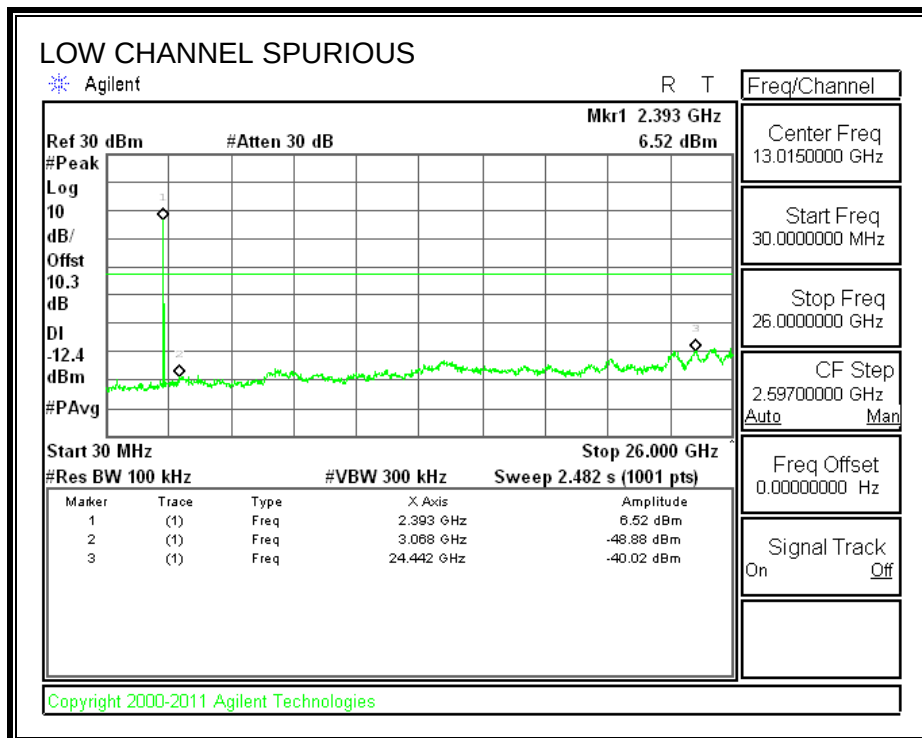
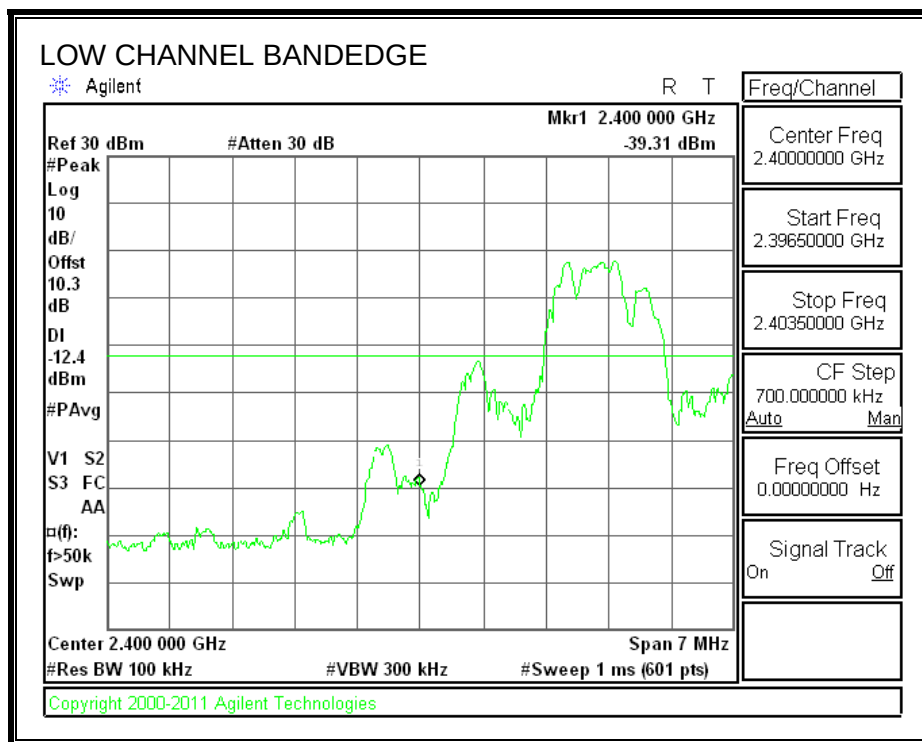


SPURIOUS BANDEDGE EMISSIONS WITH GFSK HOPPING ON

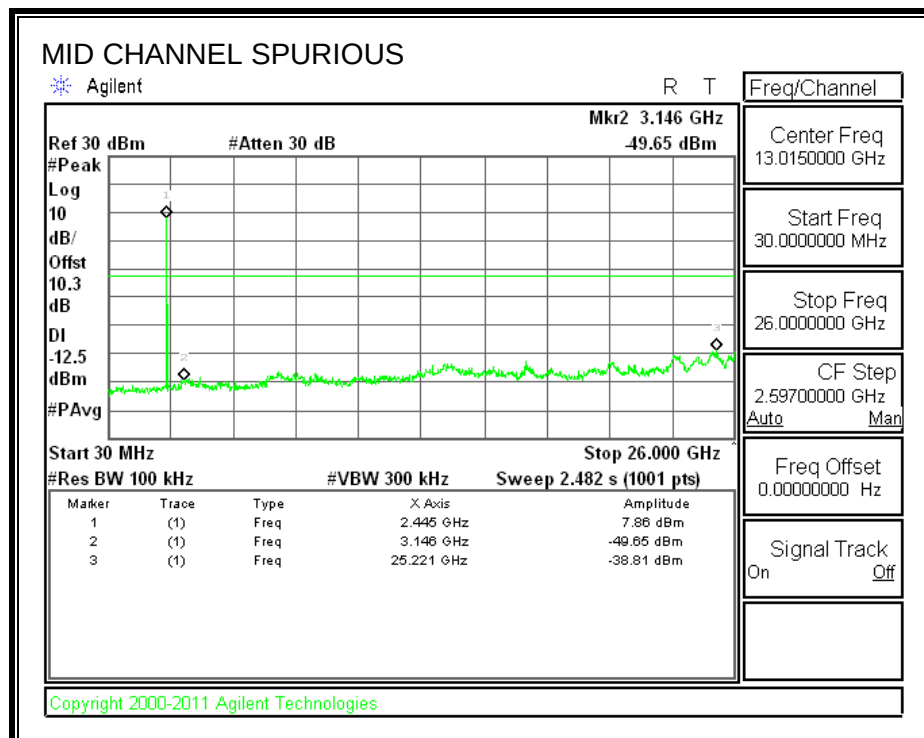
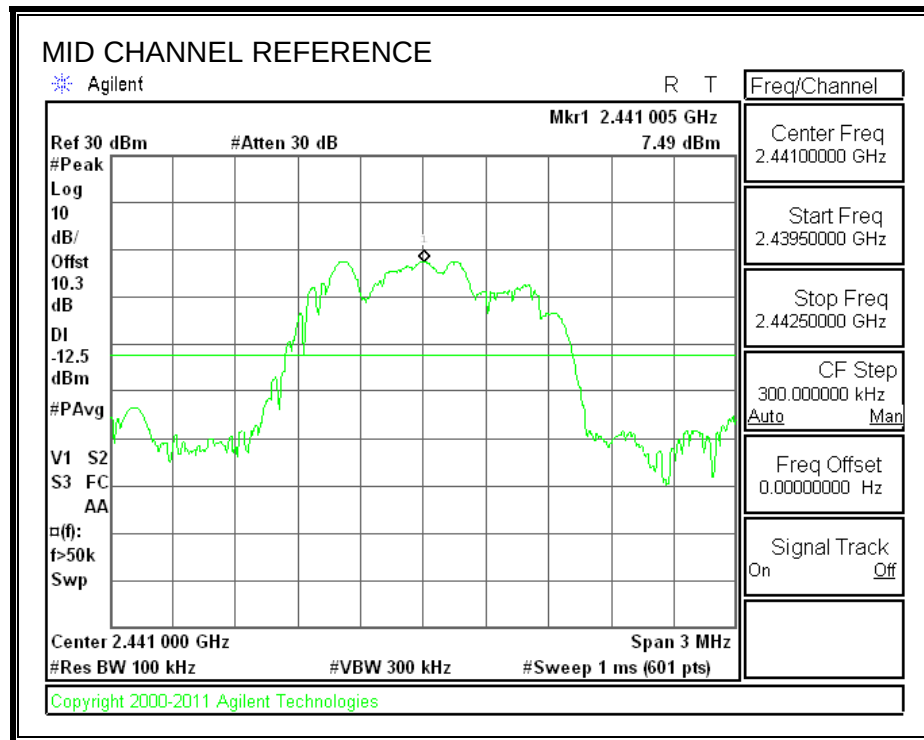


8.7.1. ENHANCED DATA RATE 8PSK MODULATION

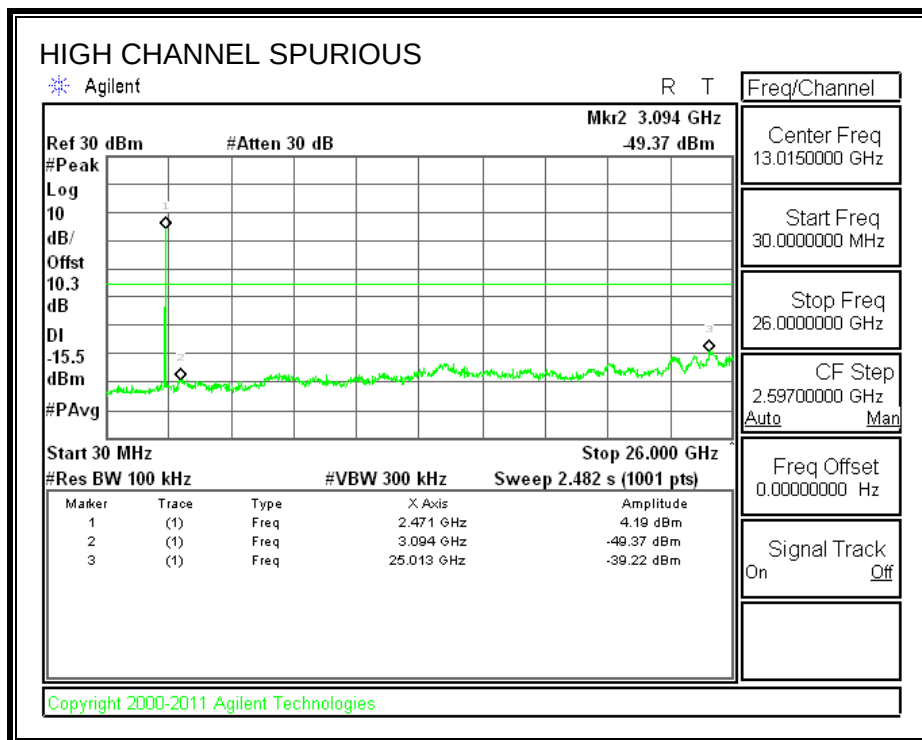
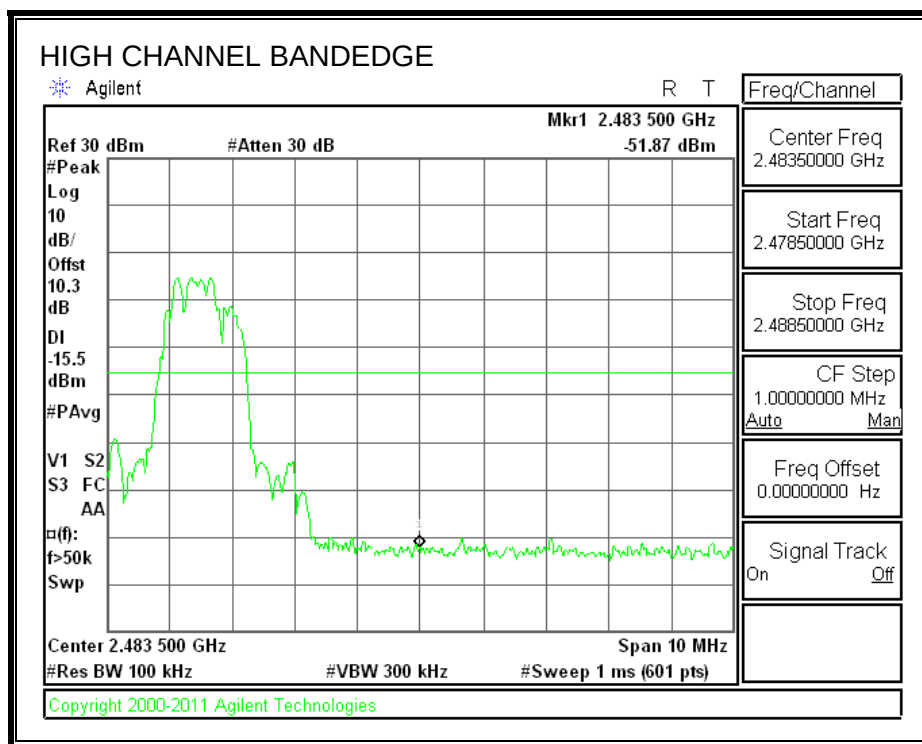
SPURIOUS EMISSIONS, LOW CHANNEL



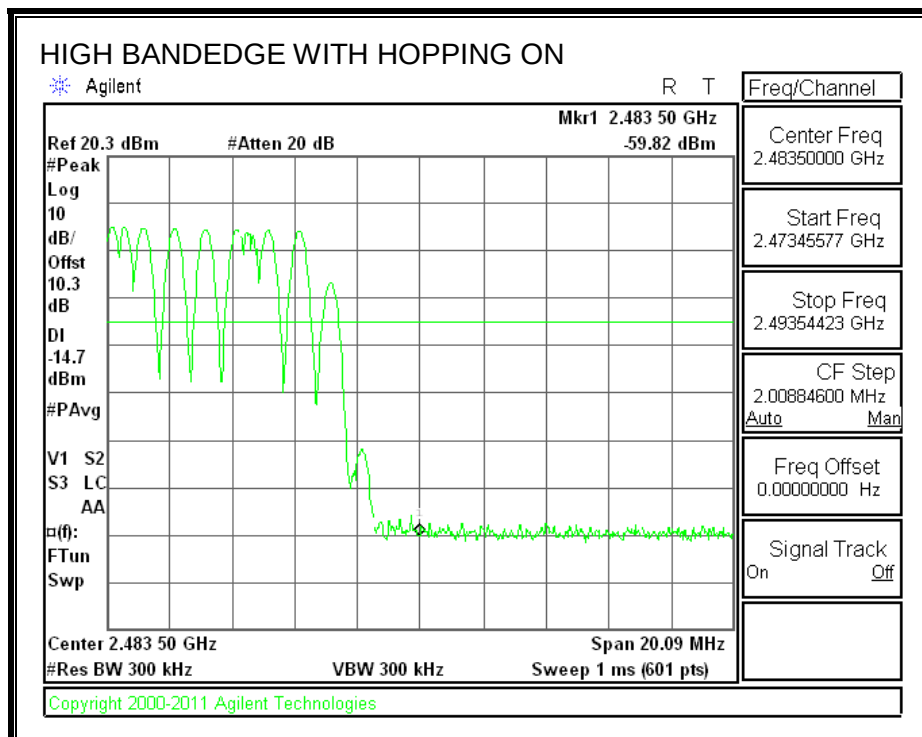
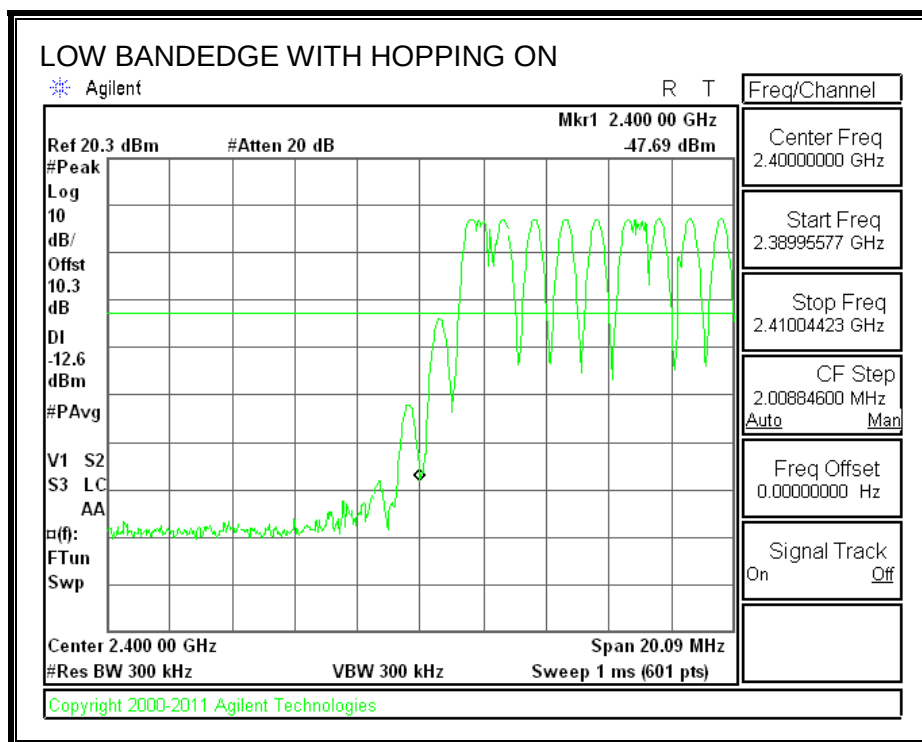
SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



SPURIOUS BANDEDGE EMISSIONS WITH 8PSK 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

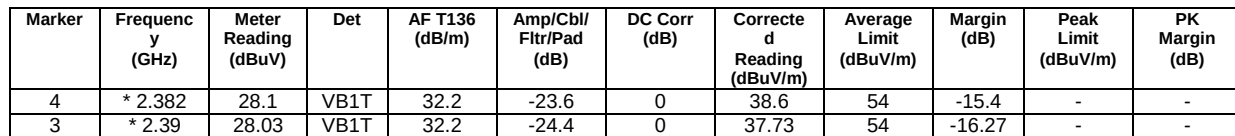
The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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. $GFSK = 1/T = 1 / 0.0028S = 360Hz$.

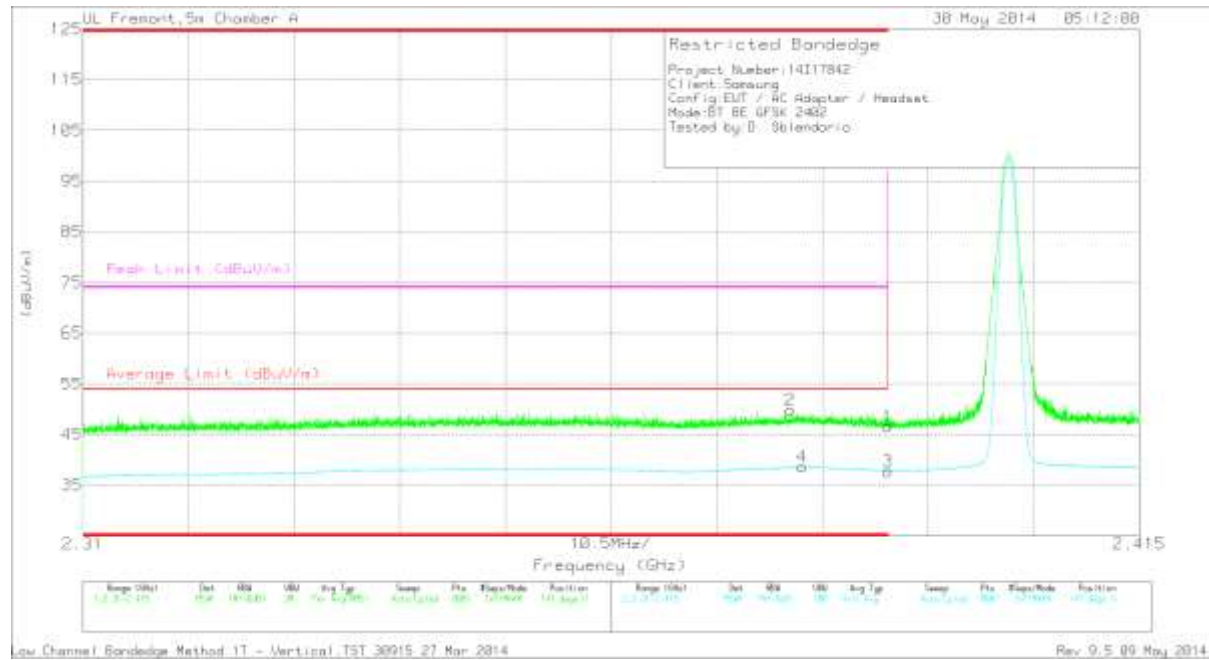
The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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.



VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



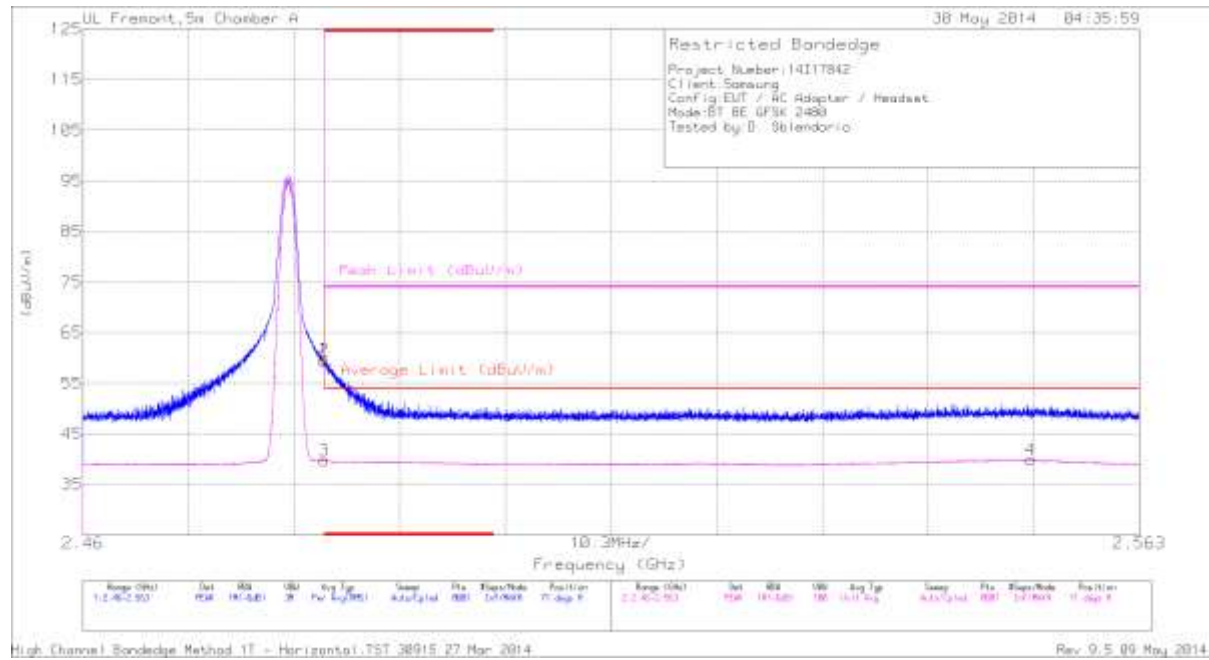
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.71	PK	32.2	-24.4	0	46.51	-	-	74	-27.49	147	383	V
2	* 2.38	41.19	PK	32.2	-23.6	0	49.79	-	-	74	-24.21	147	383	V
3	* 2.39	28.08	VB1T	32.2	-24.4	0	37.78	54	-16.22	-	-	147	383	V
4	* 2.382	28.14	VB1T	32.2	-23.6	0	38.64	54	-15.36	-	-	147	383	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



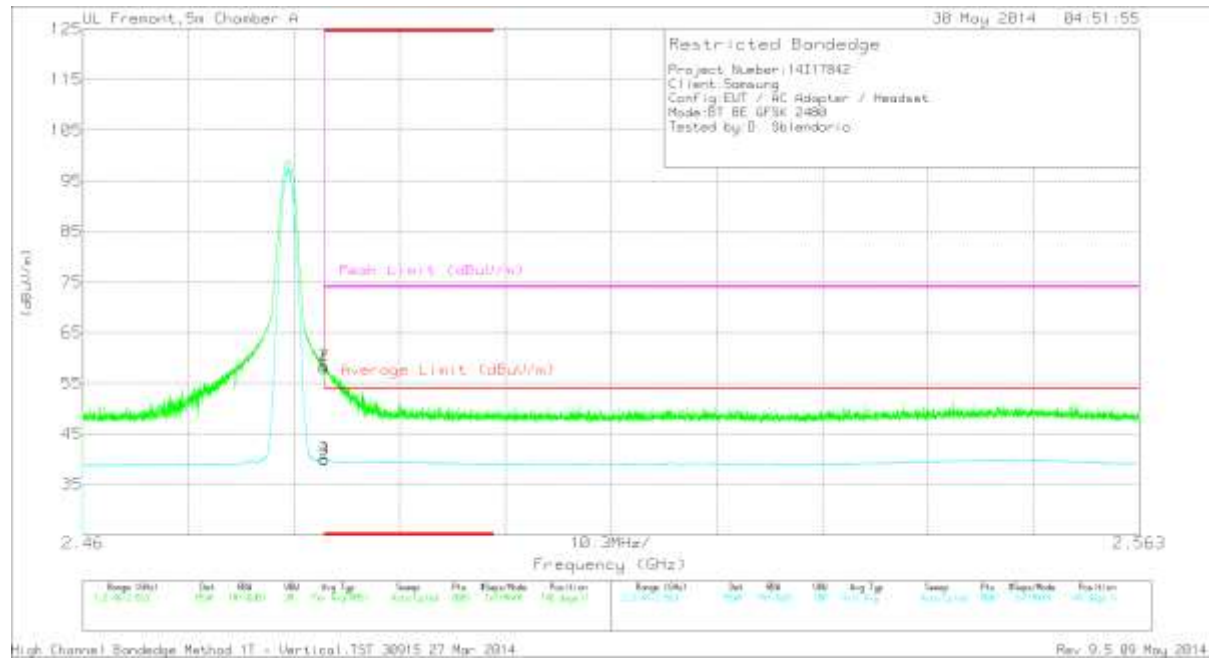
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.48	PK	32.7	-23.5	0	59.68	-	-	74	-14.32	71	374	H
2	* 2.484	50.34	PK	32.7	-23.5	0	59.54	-	-	74	-14.46	71	374	H
3	* 2.484	28.65	VB1T	32.7	-23.5	0	39.75	54	-14.25	-	-	71	374	H
4	2.552	28.15	VB1T	32.9	-23.1	0	39.85	54	-14.15	-	-	71	374	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/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	48.76	PK	32.7	-23.5	0	57.96	-	-	74	-16.04	146	377	V
2	* 2.484	49.28	PK	32.7	-23.5	0	58.48	-	-	74	-15.52	146	377	V
3	* 2.484	28.93	VB1T	32.7	-23.5	0	40.03	54	-13.97	-	-	146	377	V
4	* 2.484	29.02	VB1T	32.7	-23.5	0	40.12	54	-13.88	-	-	146	377	V

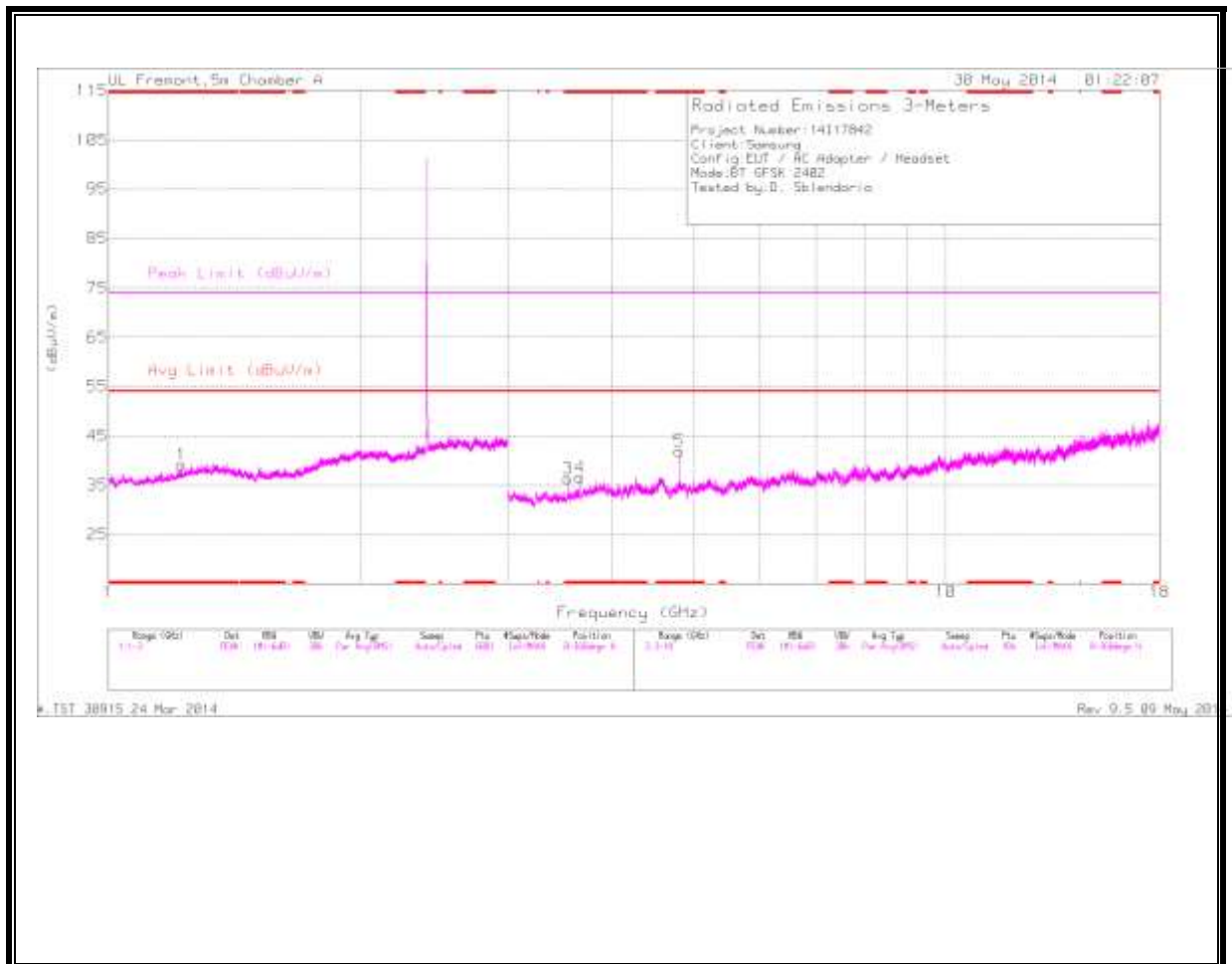
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

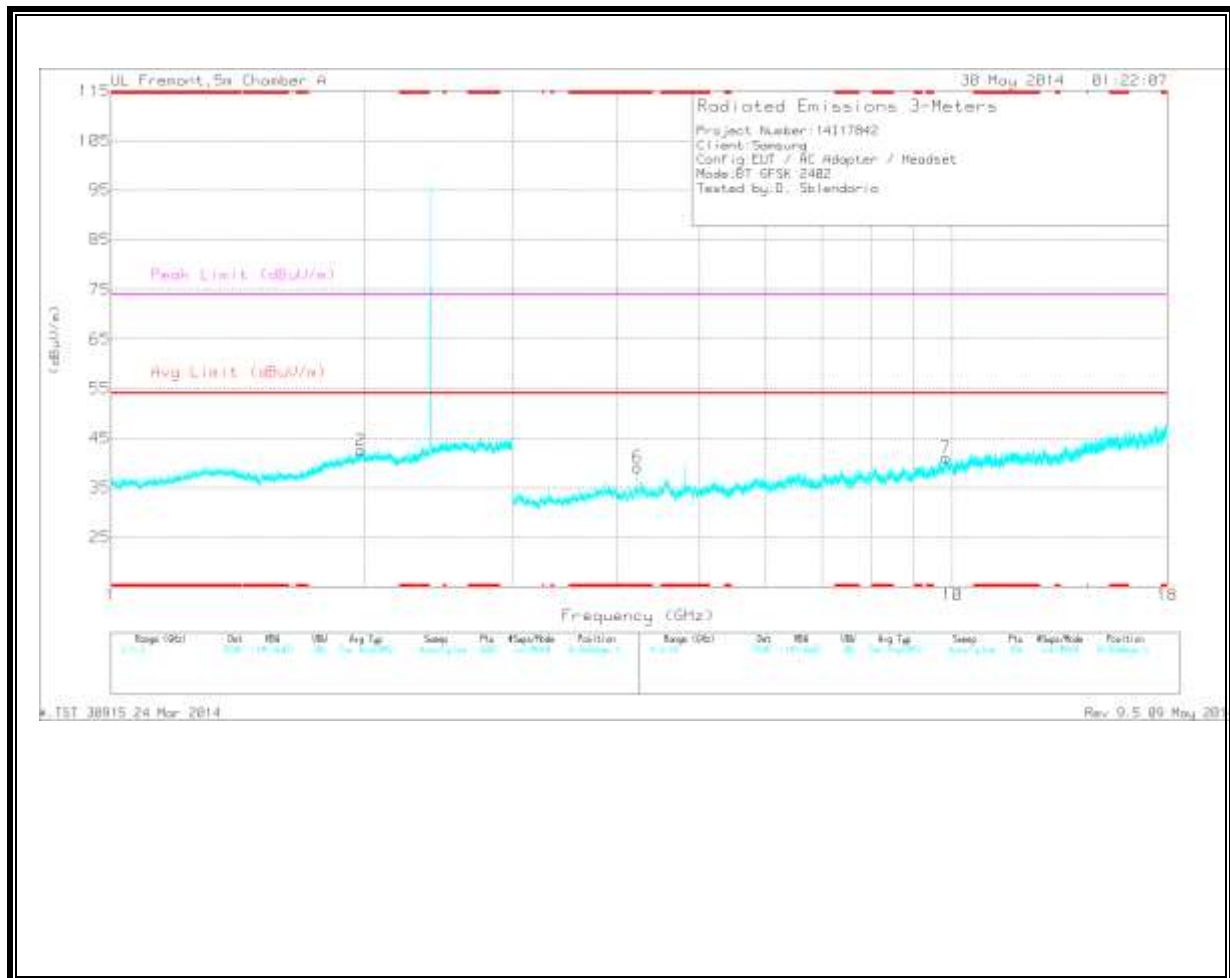
HARMONICS AND SPURIOUS EMISSIONS

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.

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.223	36.87	PK	29.5	-27.2	0	39.17	-	-	74	-34.83	0-360	100	H
3	* 3.536	34.82	PK	33.1	-31.6	0	36.32	-	-	74	-37.68	0-360	200	H
4	* 3.655	34.14	PK	33.3	-30.9	0	36.54	-	-	74	-37.46	0-360	200	H
5	* 4.803	38.07	PK	34	-30.1	0	41.97	-	-	74	-32.03	0-360	100	H
6	* 4.225	34.61	PK	33.9	-29.4	0	39.11	-	-	74	-34.89	0-360	100	V
2	1.984	35.09	PK	32	-24.5	0	42.59	-	-	-	-	0-360	200	V
7	9.819	26.45	PK	36.9	-22.3	0	41.05	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

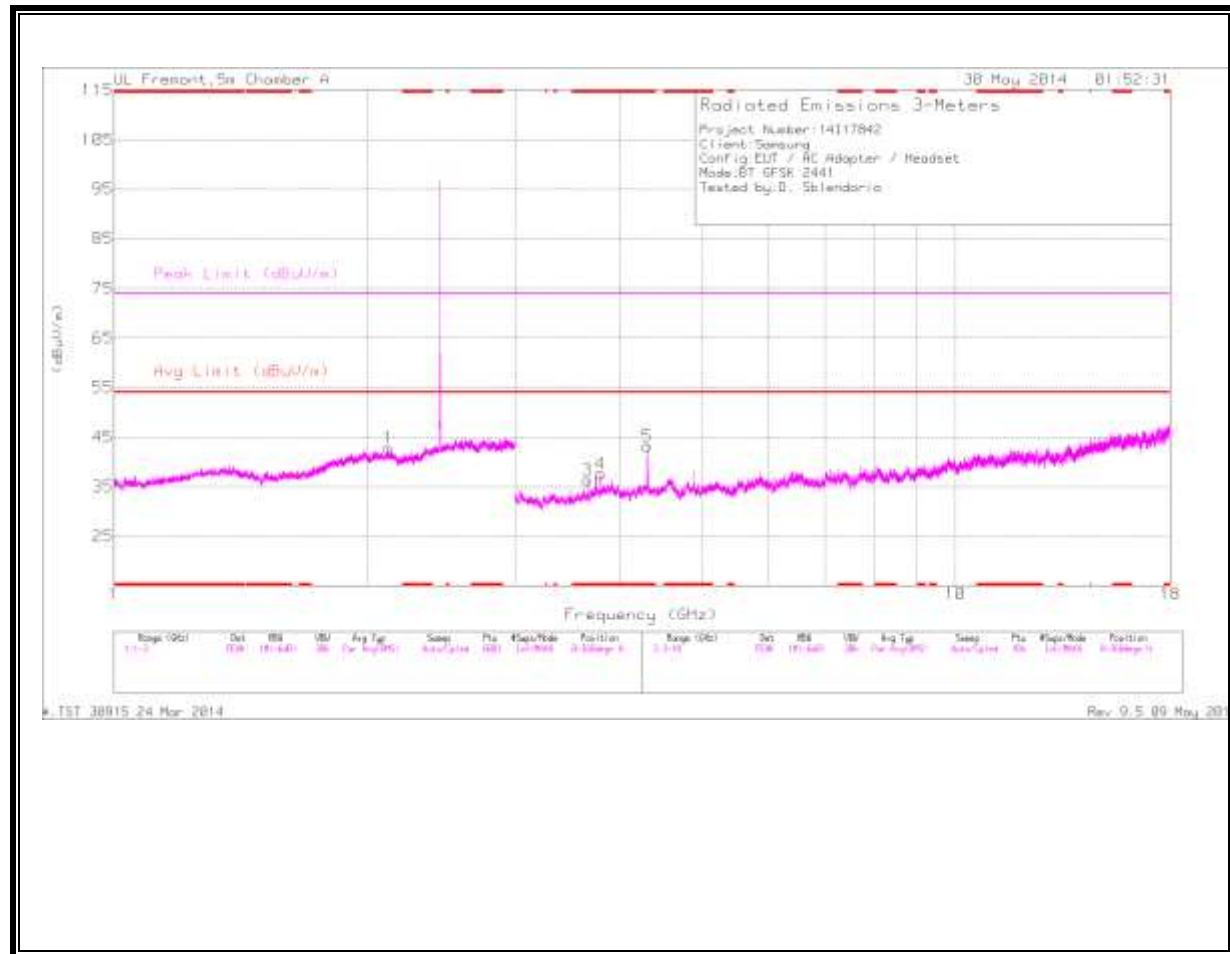
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.223	43.78	PK3	29.5	-27.2	0	46.08	-	-	74	-27.92	359	100	H
* 1.221	30.91	VB1T	29.5	-27.2	0	35.11	54	-18.89	-	-	359	100	H
* 3.536	40.72	PK3	33.1	-31.6	0	42.22	-	-	74	-31.78	359	201	H
* 3.538	27.52	VB1T	33.1	-31.7	0	30.82	54	-23.18	-	-	359	201	H
* 3.653	39.3	PK3	33.3	-30.9	0	41.7	-	-	74	-32.3	359	201	H
* 3.657	27.27	VB1T	33.3	-31	0	31.47	54	-22.53	-	-	359	201	H
* 3.654	40.25	PK3	33.3	-30.9	0	42.65	-	-	74	-31.35	359	201	H
* 3.656	27.19	VB1T	33.3	-30.9	0	31.49	54	-22.51	-	-	359	201	H
* 4.804	40.35	PK3	34	-30	0	44.35	-	-	74	-29.65	359	100	H
* 4.804	29.74	VB1T	34	-30	0	35.64	54	-18.36	-	-	359	100	H
* 4.225	38.99	PK3	33.9	-29.4	0	43.49	-	-	74	-30.51	359	100	V
* 4.227	26.4	VB1T	33.9	-29.4	0	32.8	54	-21.2	-	-	359	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet



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



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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.657	34.09	PK	33.3	-31	0	36.39	-	-	74	-37.61	0-360	100	H
4	* 3.787	34.76	PK	33.6	-30.7	0	37.66	-	-	74	-36.34	0-360	100	H
5	* 4.302	39.66	PK	34	-30.5	0	43.16	-	-	74	-30.84	0-360	100	H
6	* 3.745	36.15	PK	33.5	-30.6	0	39.05	-	-	74	-34.95	0-360	100	V
7	* 3.798	36.8	PK	33.6	-30.9	0	39.5	-	-	74	-34.5	0-360	100	V
8	* 4.227	37.12	PK	33.9	-29.4	0	41.62	-	-	74	-32.38	0-360	100	V
9	* 4.315	38.77	PK	34	-30.7	0	42.07	-	-	74	-31.93	0-360	100	V
2	1.986	35.12	PK	32	-24.4	0	42.72	-	-	-	-	0-360	100	V
1	2.12	35.3	PK	31.7	-24.2	0	42.8	-	-	-	-	0-360	200	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

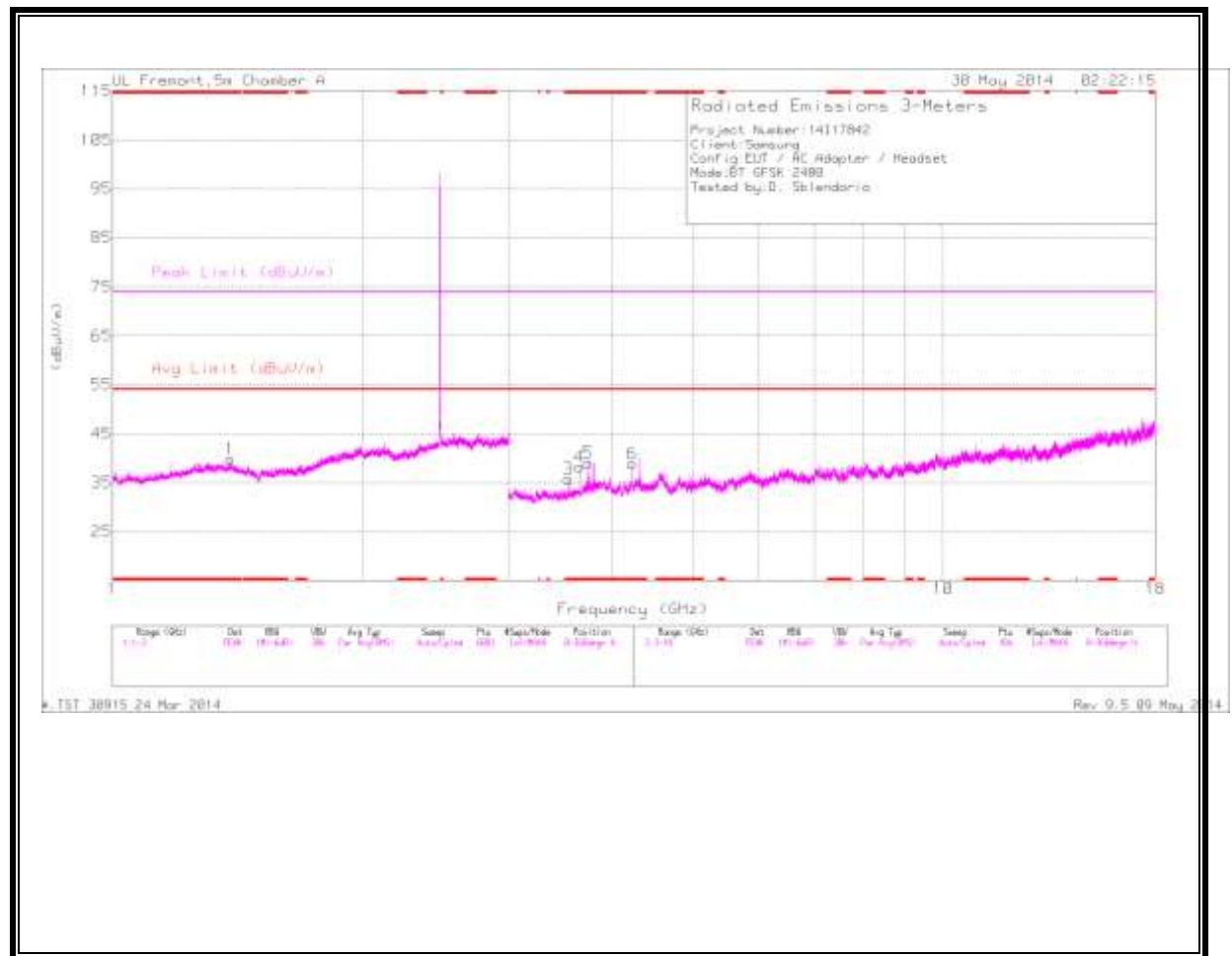
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.302	40.02	PK3	34	-30.5	0	43.52	-	-	74	-30.48	359	100	H
* 4.302	27.35	VB1T	34	-30.5	0	32.75	54	-21.25	-	-	359	100	H
* 3.785	40.58	PK3	33.6	-30.7	0	43.48	-	-	74	-30.52	315	285	H
* 3.787	27.38	VB1T	33.6	-30.7	0	32.18	54	-21.82	-	-	315	285	H
* 3.746	39.81	PK3	33.5	-30.7	0	42.61	-	-	74	-31.39	359	100	V
* 3.747	27.26	VB1T	33.5	-30.8	0	31.86	54	-22.14	-	-	359	100	V
* 3.798	40.34	PK3	33.6	-30.9	0	43.04	-	-	74	-30.96	359	100	V
* 3.798	27.48	VB1T	33.6	-30.9	0	32.08	54	-21.92	-	-	359	100	V
* 3.798	41.22	PK3	33.6	-30.9	0	43.92	-	-	74	-30.08	359	100	V
* 3.798	27.43	VB1T	33.6	-30.9	0	32.03	54	-21.97	-	-	359	100	V
* 4.226	38.49	PK3	33.9	-29.4	0	42.99	-	-	74	-31.01	121	188	V
* 4.227	26.27	VB1T	33.9	-29.4	0	32.67	54	-21.33	-	-	121	188	V
* 4.316	39.51	PK3	34	-30.7	0	42.81	-	-	74	-31.19	284	185	V
* 4.315	27.17	VB1T	34	-30.7	0	32.37	54	-21.63	-	-	284	185	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet



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



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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.386	36.34	PK	29.9	-26.5	0	39.74	-	-	74	-34.26	0-360	199	H
3	* 3.536	34.26	PK	33.1	-31.6	0	35.76	-	-	74	-38.24	0-360	200	H
4	* 3.65	35.89	PK	33.3	-30.9	0	38.29	-	-	74	-35.71	0-360	100	H
5	* 3.737	36.26	PK	33.5	-30.7	0	39.06	-	-	74	-34.94	0-360	200	H
6	* 4.226	34.37	PK	33.9	-29.4	0	38.87	-	-	74	-35.13	0-360	100	H
7	* 4.315	38.17	PK	34	-30.7	0	41.47	-	-	74	-32.53	0-360	100	V
2	1.973	35.52	PK	32	-24.8	0	42.72	-	-	-	-	0-360	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.535	40.77	PK3	33.1	-31.6	0	42.27	-	-	74	-31.73	360	200	H
* 3.536	27.44	VB1T	33.1	-31.6	0	30.84	54	-23.16	-	-	360	200	H
* 3.648	39.55	PK3	33.3	-30.9	0	41.95	-	-	74	-32.05	360	100	H
* 3.65	27.23	VB1T	33.3	-30.9	0	31.53	54	-22.47	-	-	360	100	H
* 3.737	40.5	PK3	33.5	-30.7	0	43.3	-	-	74	-30.7	360	201	H
* 3.739	27.15	VB1T	33.5	-30.6	0	31.95	54	-22.05	-	-	360	201	H
* 4.227	38.69	PK3	33.9	-29.4	0	43.19	-	-	74	-30.81	360	100	H
* 4.227	26.32	VB1T	33.9	-29.4	0	32.72	54	-21.28	-	-	360	100	H
* 4.315	40.22	PK3	34	-30.7	0	43.52	-	-	74	-30.48	33	279	V
* 4.315	27.16	VB1T	34	-30.7	0	32.36	54	-21.64	-	-	33	279	V

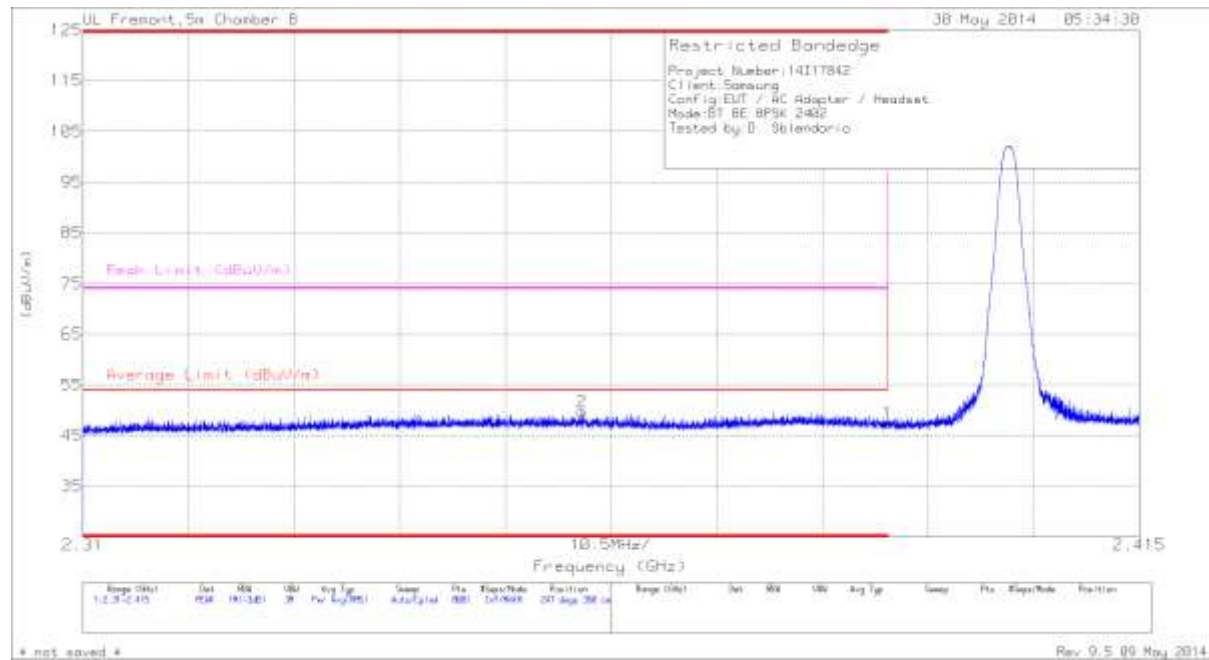
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

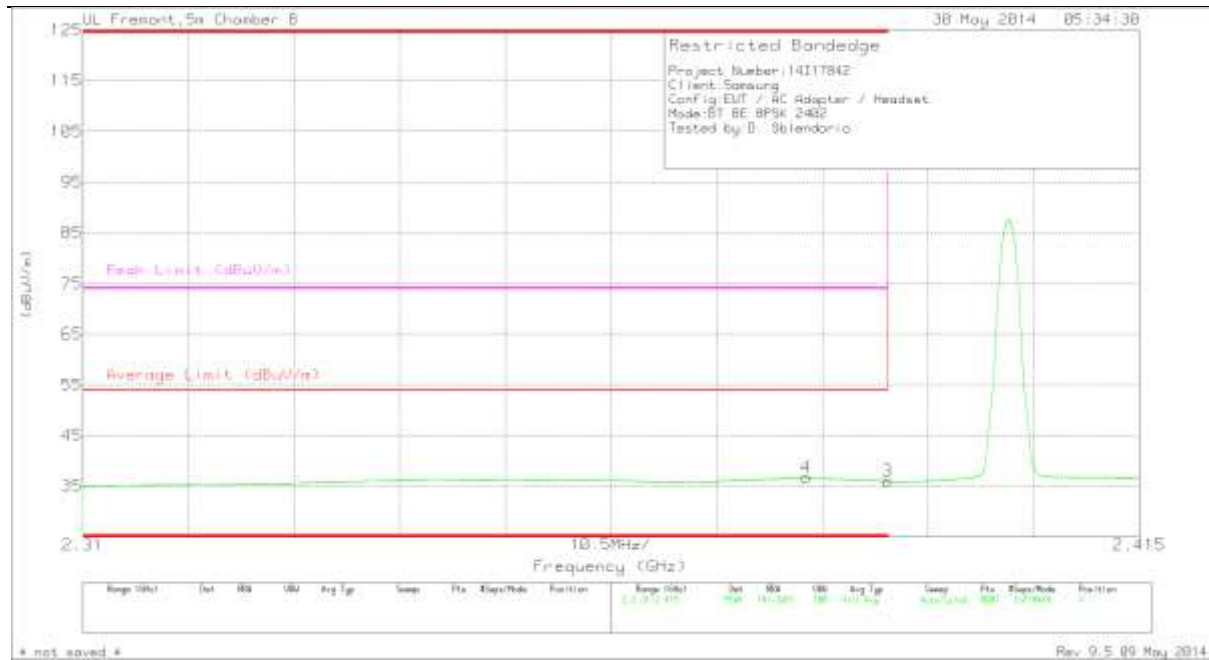
9.2.2. ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Filt/Pad (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	39.61	PK	32.2	-24.4	47.41	-	-	74	-26.59	247	360	H
2	* 2.36	41.45	PK	32	-23.8	49.65	-	-	74	-24.35	247	360	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK - Peak detector

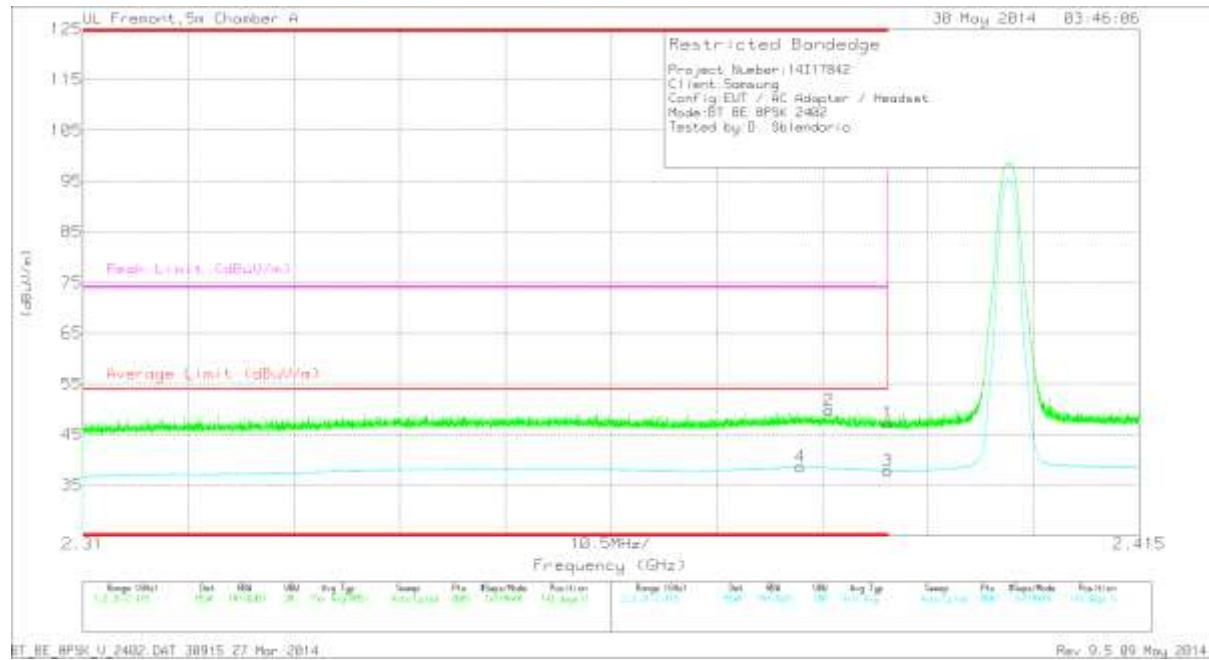


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
4	* 2.382	28.18	VB1T	32.2	-23.6	36.78	54	-17.22	-	-
3	* 2.39	28.16	VB1T	32.2	-24.4	35.96	54	-18.04	-	-

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



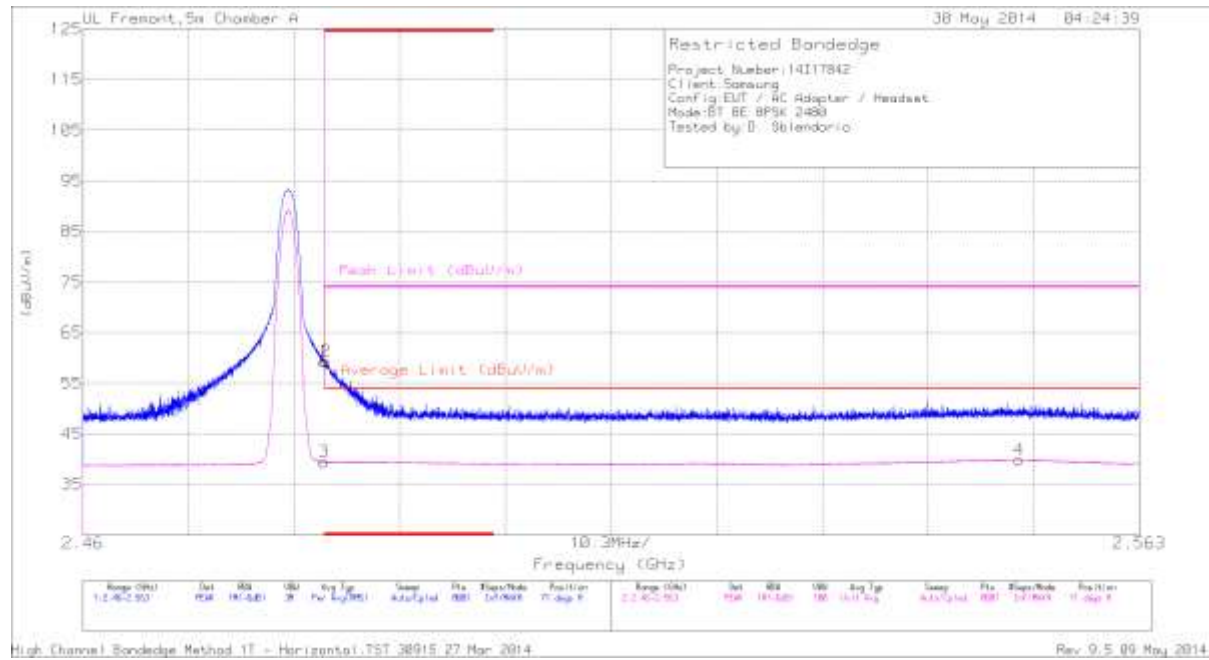
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.53	PK	32.2	-24.4	0	47.33	-	-	74	-26.67	143	380	V
2	* 2.384	41.35	PK	32.2	-23.8	0	49.75	-	-	74	-24.25	143	380	V
3	* 2.39	28.14	VB1T	32.2	-24.4	0	37.84	54	-16.16	-	-	143	380	V
4	* 2.381	28.03	VB1T	32.2	-23.5	0	38.63	54	-15.37	-	-	143	380	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



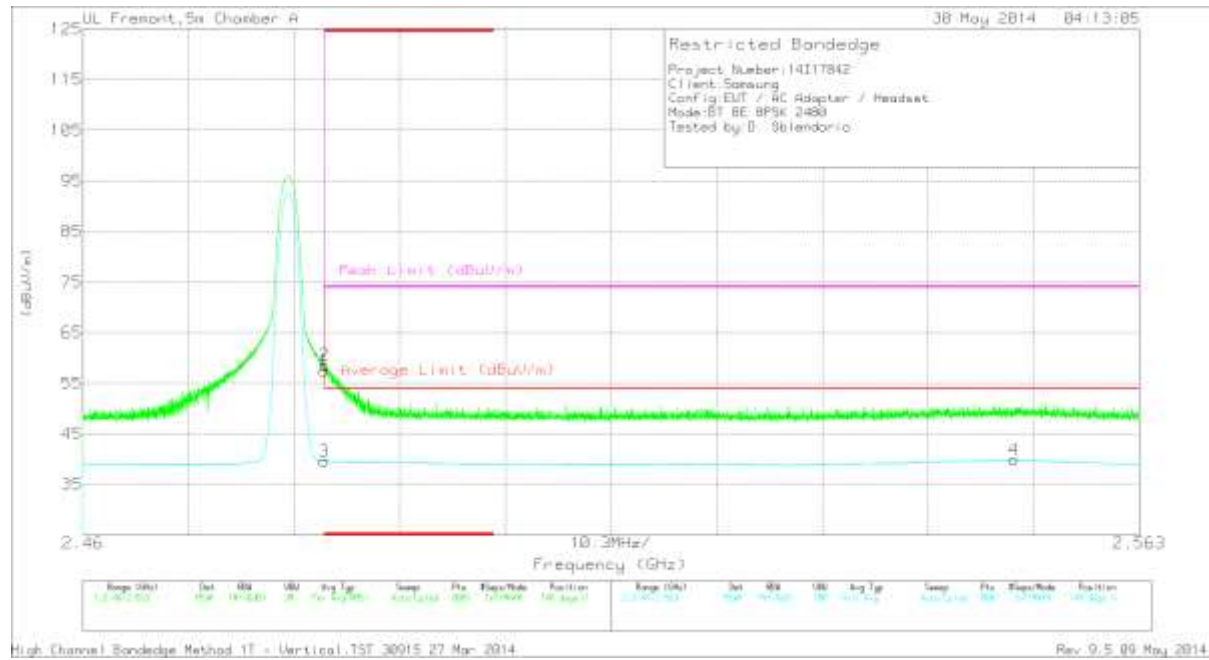
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50	PK	32.7	-23.5	0	59.2	-	-	74	-14.8	71	374	H
2	* 2.484	50.17	PK	32.7	-23.5	0	59.37	-	-	74	-14.63	71	374	H
3	* 2.484	28.33	VB1T	32.7	-23.5	0	39.43	54	-14.57	-	-	71	374	H
4	2.551	28.18	VB1T	32.9	-23.1	0	39.88	54	-14.12	-	-	71	374	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



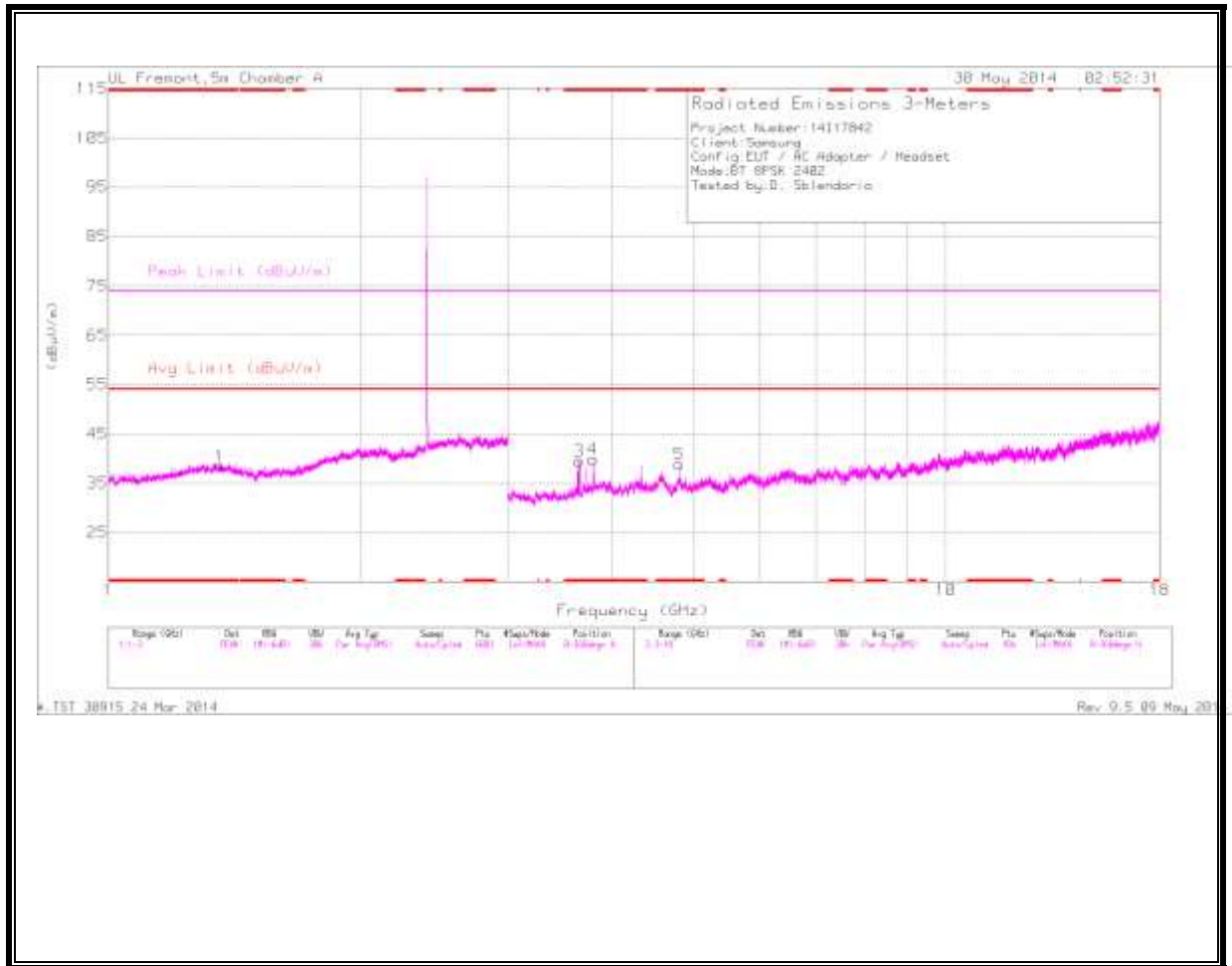
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.3	PK	32.7	-23.5	0	57.5	-	-	74	-16.5	148	378	V
2	* 2.484	49.44	PK	32.7	-23.5	0	58.64	-	-	74	-15.36	148	378	V
3	* 2.484	28.49	VB1T	32.7	-23.5	0	39.59	54	-14.41	-	-	148	378	V
4	2.551	28.12	VB1T	32.9	-23.1	0	39.82	54	-14.18	-	-	148	378	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

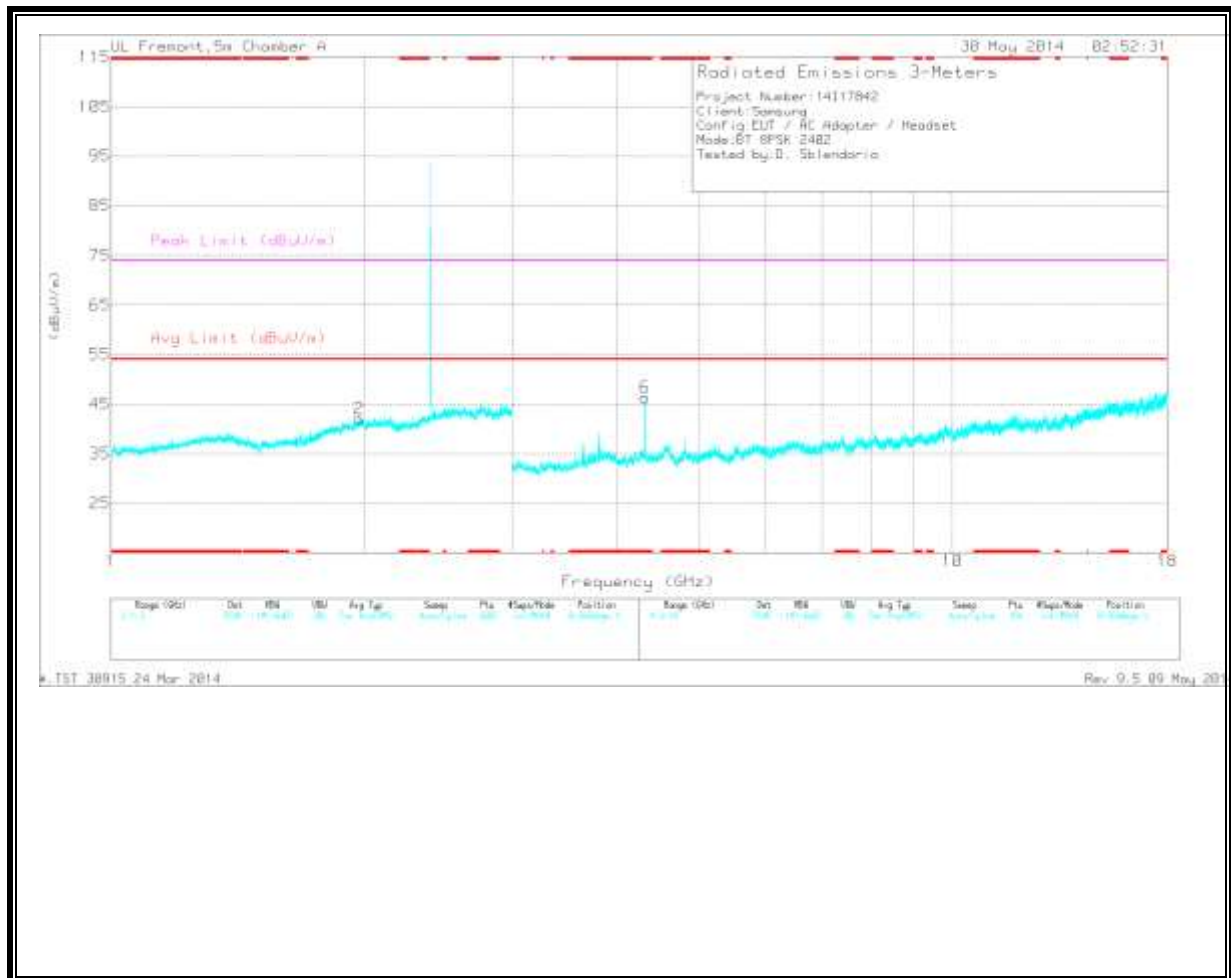
VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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.

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.358	34.97	PK	30	-26.6	0	38.37	-	-	74	-35.63	0-360	100	H
3	* 3.646	37.1	PK	33.3	-30.9	0	39.5	-	-	74	-34.5	0-360	200	H
4	* 3.792	36.83	PK	33.6	-30.6	0	39.83	-	-	74	-34.17	0-360	200	H
5	* 4.803	34.96	PK	34	-30.1	0	38.86	-	-	74	-35.14	0-360	200	H
6	* 4.314	43.08	PK	34	-30.7	0	46.38	-	-	74	-27.62	0-360	200	V
2	1.973	34.84	PK	32	-24.8	0	42.04	-	-	-	-	0-360	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

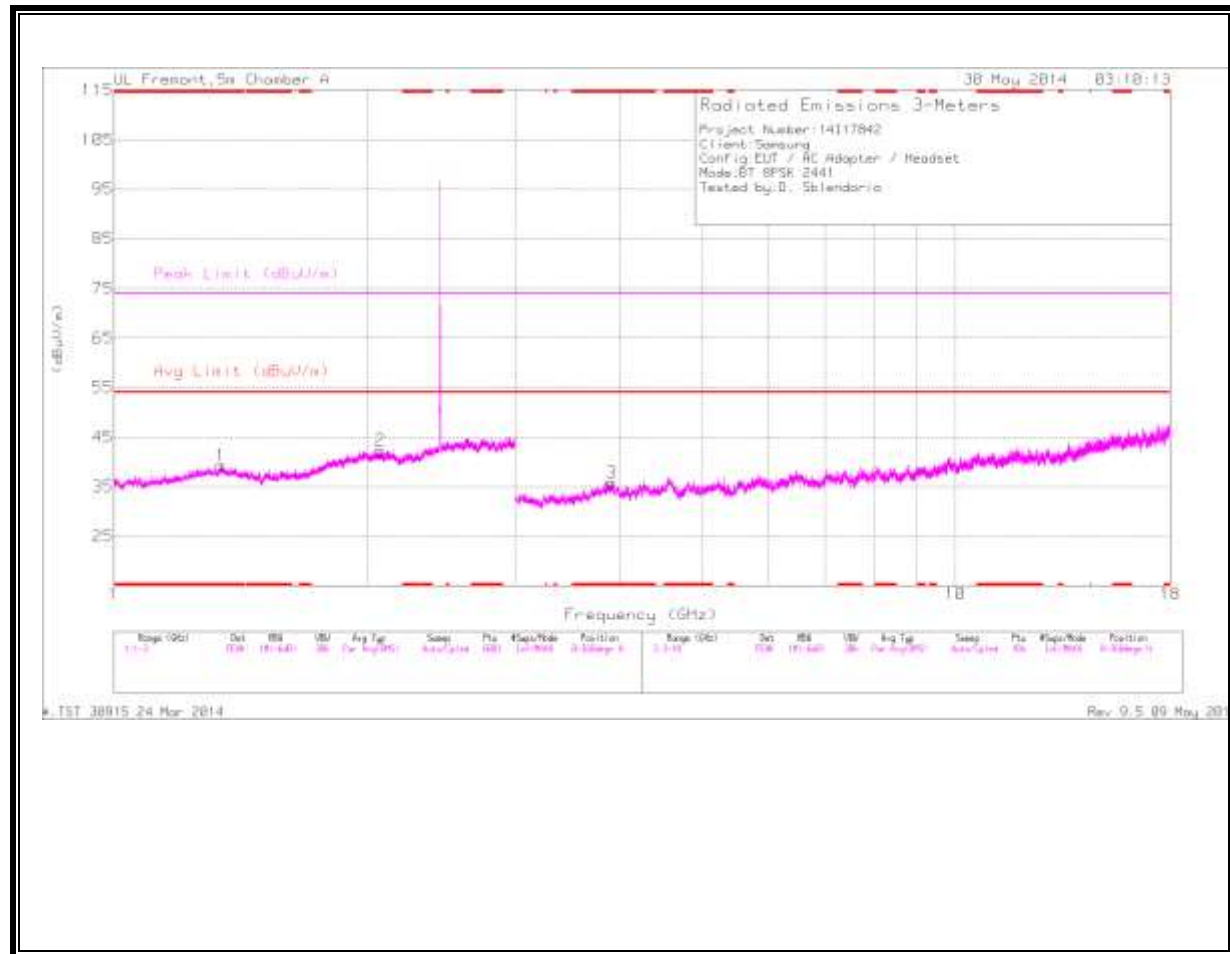
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.79	40.31	PK3	33.6	-30.6	0	43.31	-	-	74	-30.69	1	201	H
* 3.794	27.44	VB1T	33.6	-30.5	0	32.44	54	-21.56	-	-	1	201	H
* 4.804	39.64	PK3	34	-30	0	43.64	-	-	74	-30.36	1	201	H
* 4.804	28.04	VB1T	34	-30	0	33.94	54	-20.06	-	-	1	201	H
* 4.312	39.33	PK3	34	-30.7	0	42.63	-	-	74	-31.37	1	201	V
* 4.314	40.7	VB1T	34	-30.7	0	45.9	54	-8.1	-	-	1	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet



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



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 T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.339	35.41	PK	30.1	-26.3	0	39.21	-	-	74	-34.79	0-360	200	H
3	* 3.905	32.43	PK	33.8	-30.4	0	35.83	-	-	74	-38.17	0-360	200	H
4	* 4.559	32.01	PK	33.9	-28.2	0	37.71	-	-	74	-36.29	0-360	100	V
5	* 7.693	28.39	PK	35.4	-24.4	0	39.39	-	-	74	-34.61	0-360	100	V
6	* 12.49	26.54	PK	38.9	-22.5	0	42.94	-	-	74	-31.06	0-360	200	V
2	2.073	35.09	PK	31.8	-24.6	0	42.29	-	-	-	-	0-360	100	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

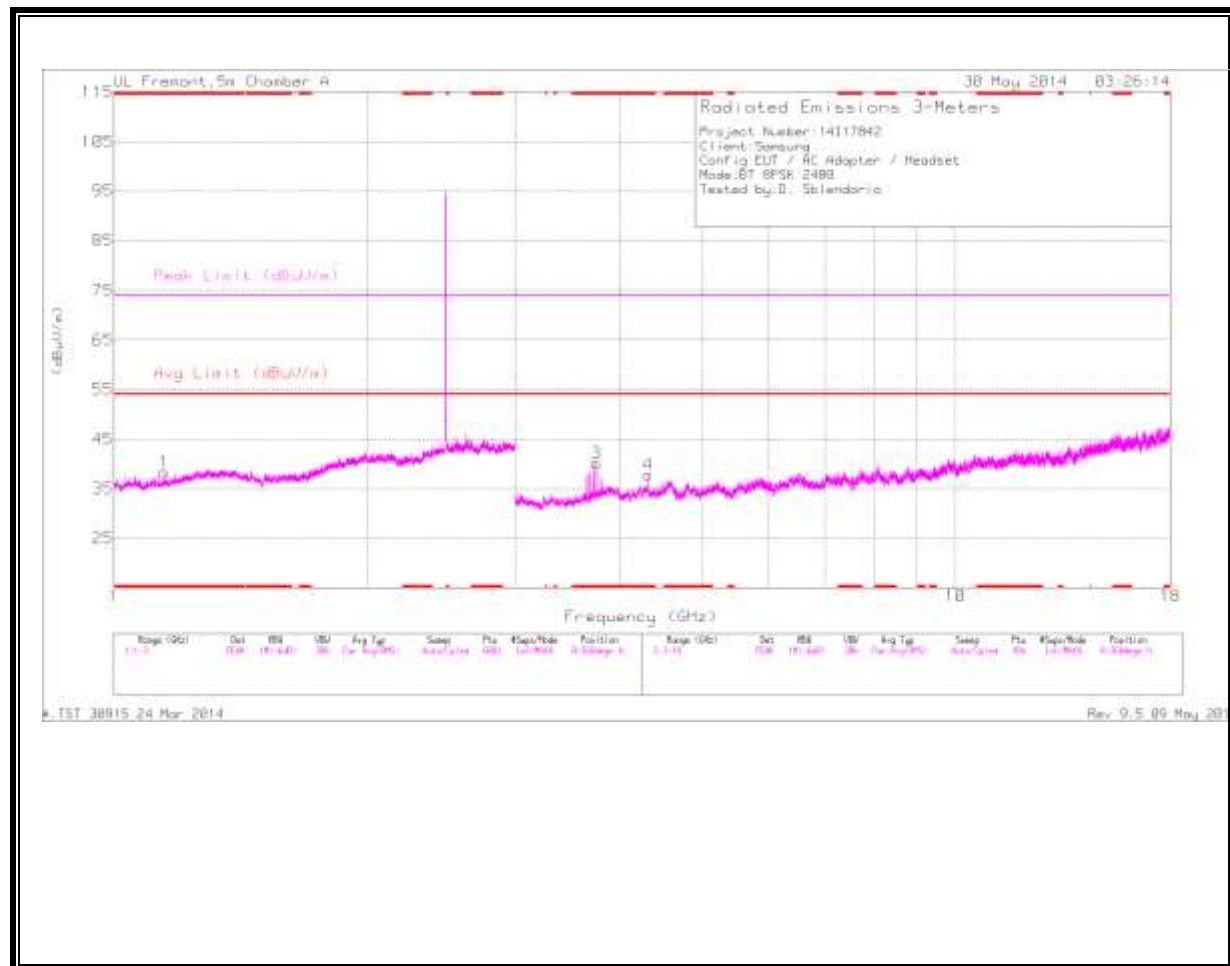
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.341	43.8	PK3	30.1	-26.3	0	47.6	-	-	74	-26.4	1	201	H
* 1.341	30.72	VB1T	30.1	-26.3	0	36.42	54	-17.58	-	-	1	201	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet



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



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 T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.147	36.82	PK	28.8	-27.3	0	38.32	-	-	74	-35.68	0-360	201	H
3	* 3.746	37.29	PK	33.5	-30.7	0	40.09	-	-	74	-33.91	0-360	200	H
4	* 4.314	34.56	PK	34	-30.7	0	37.86	-	-	74	-36.14	0-360	200	H
5	* 3.793	35.65	PK	33.6	-30.5	0	38.75	-	-	74	-35.25	0-360	100	V
2	1.988	34.78	PK	32	-24.3	0	42.48	-	-	-	-	0-360	100	V
6	10.01	25.85	PK	37.1	-23.5	0	39.45	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.744	40.13	PK3	33.5	-30.6	0	43.03	-	-	74	-30.97	1	201	H
* 3.745	27.29	VB1T	33.5	-30.7	0	31.99	54	-22.01	-	-	1	201	H

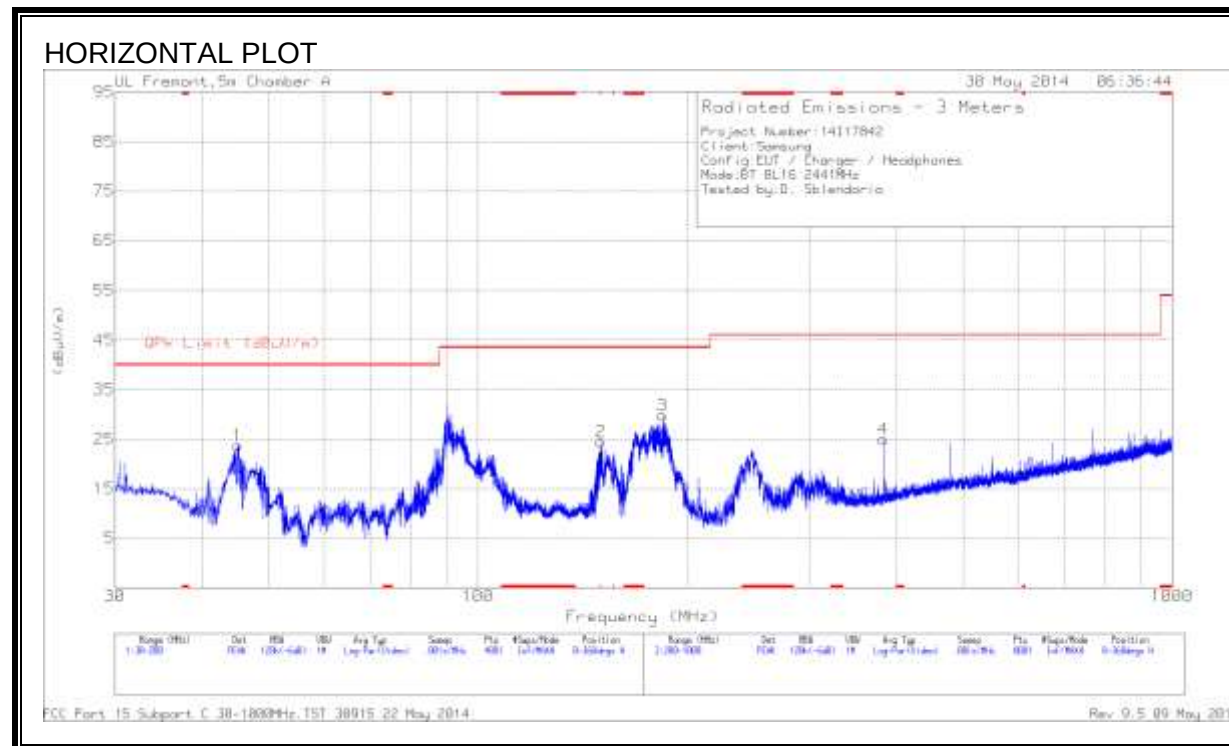
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

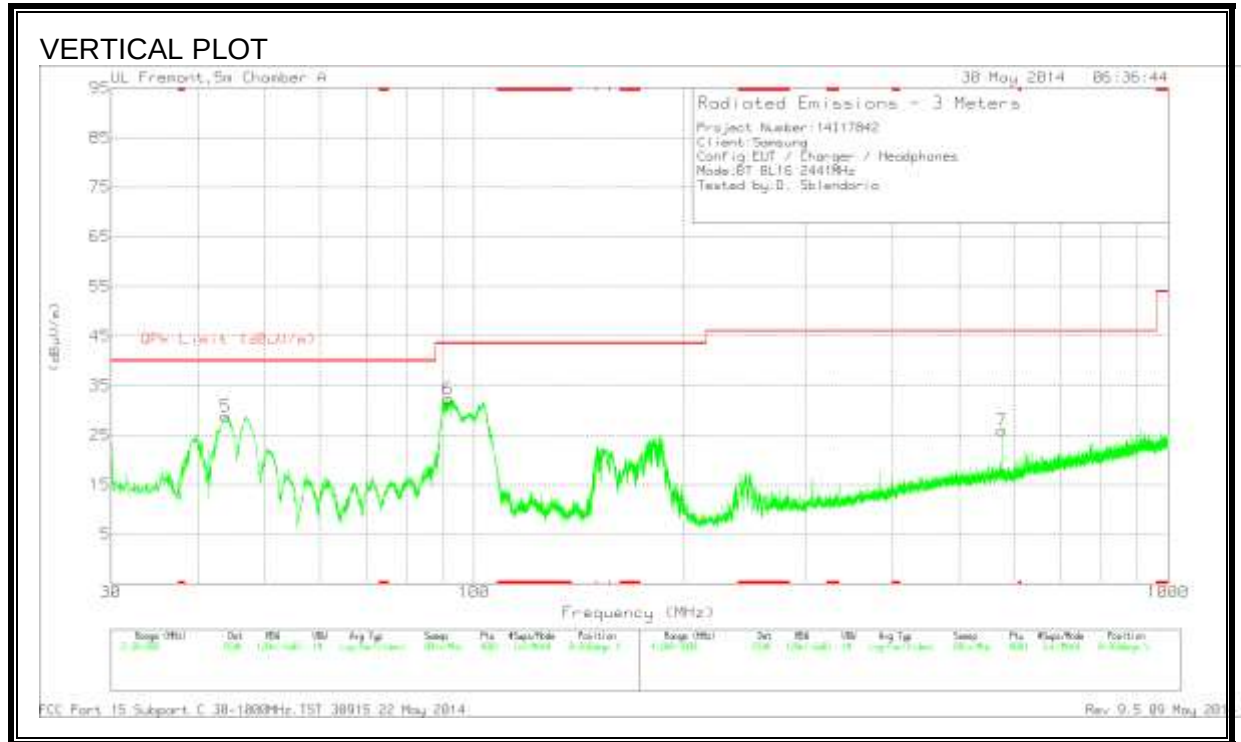
PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

9.3. WORST-CASE BELOW 1 GHz

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





DATA
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	43.8975	48.37	PK	11.4	-31	28.77	40	-11.23	0-360	101	V
1	45.045	43.92	PK	10.6	-30.8	23.72	40	-16.28	0-360	400	H
6	91.7525	54.58	PK	8.1	-30.4	32.28	43.52	-11.24	0-360	101	V
2	150.3175	42	PK	12.6	-30.1	24.5	43.52	-19.02	0-360	101	H
3	184.615	48.51	PK	11.3	-30	29.81	43.52	-13.71	0-360	200	H
4	384	38.77	PK	15.1	-28.9	24.97	46.02	-21.05	0-360	101	H
7	576	35.79	PK	18.7	-28.5	25.99	46.02	-20.03	0-360	100	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-L1 .15 - 30MHz

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	.15	36.75	PK	1.4	0	38.15	66	-27.85	-	-
2	.15	18.04	Av	1.4	0	19.44	-	-	56	-36.56
3	4.1775	43.13	PK	.2	.1	43.43	56	-12.57	-	-
4	4.1775	25.46	Av	.2	.1	25.76	-	-	46	-20.24
5	6.8685	41.29	PK	.2	.1	41.59	60	-18.41	-	-
6	6.8685	24.85	Av	.2	.1	25.15	-	-	50	-24.85

Line-L2 .15 - 30MHz

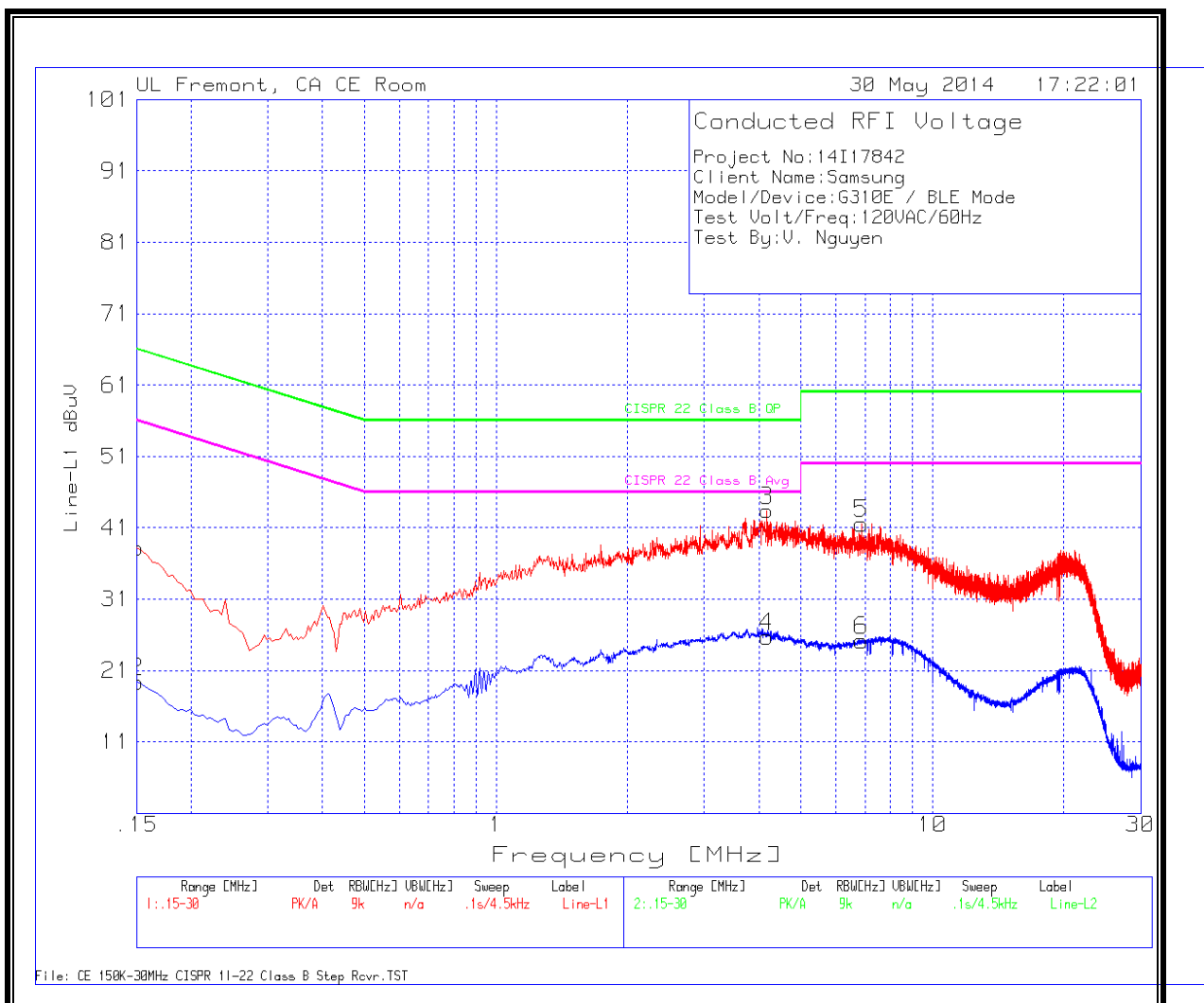
Trace Markers

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)
7	.15	28.27	PK	1.5	0	29.77	66	-36.23	-	-
8	.15	8.31	Av	1.5	0	9.81	-	-	56	-46.19
9	4.3665	39.15	PK	.2	.1	39.45	56	-16.55	-	-
10	4.3665	21.02	Av	.2	.1	21.32	-	-	46	-24.68
11	20.697	38.23	PK	.3	.2	38.73	60	-21.27	-	-
12	20.697	19.27	Av	.3	.2	19.77	-	-	50	-30.23

PK - Peak detector

Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS

