



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

**CERTIFICATION TEST REPORT
for**

BT/BLE, DTS/UNII a/b/g/n and ANT+ Tablet

**MODEL NUMBER: SM-T333
FCC ID: A3LSMT333
IC ID: 649E-SMT333**

**REPORT NUMBER: 15I19760-E1- REVISION A
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NVLAP LAB CODE 200065-0

Revision History

Issue			
Rev.	Date	Revisions	Revised By
--	1/16/15	Initial Issue	P. Zhang
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD
EUT DESCRIPTION: BT/BLE, DTS/UNII a/b/g/n and ANT+ Tablet
MODEL: SM-T333
SERIAL NUMBER: 2033413 (Conducted); 20333416 (Radiated)
DATE TESTED: January 12 – 16, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 ISSUE 8	Pass
INDUSTRY CANADA RSS-GEN ISSUE 4	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, RSS-GEN Issue 4, and RSS-210 Issue 8.

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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 26000 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 Tablet with BT, DTS/UNII a/b/g/n and ANT+.

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	10.97	12.50
2402 - 2480	Enhanced 8PSK	11.32	13.55

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 -0.6 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	ETA0U81EWE	N/A	N/A
Earphone	SAMSUNG	N/A	N/A	N/A

I/O CABLES

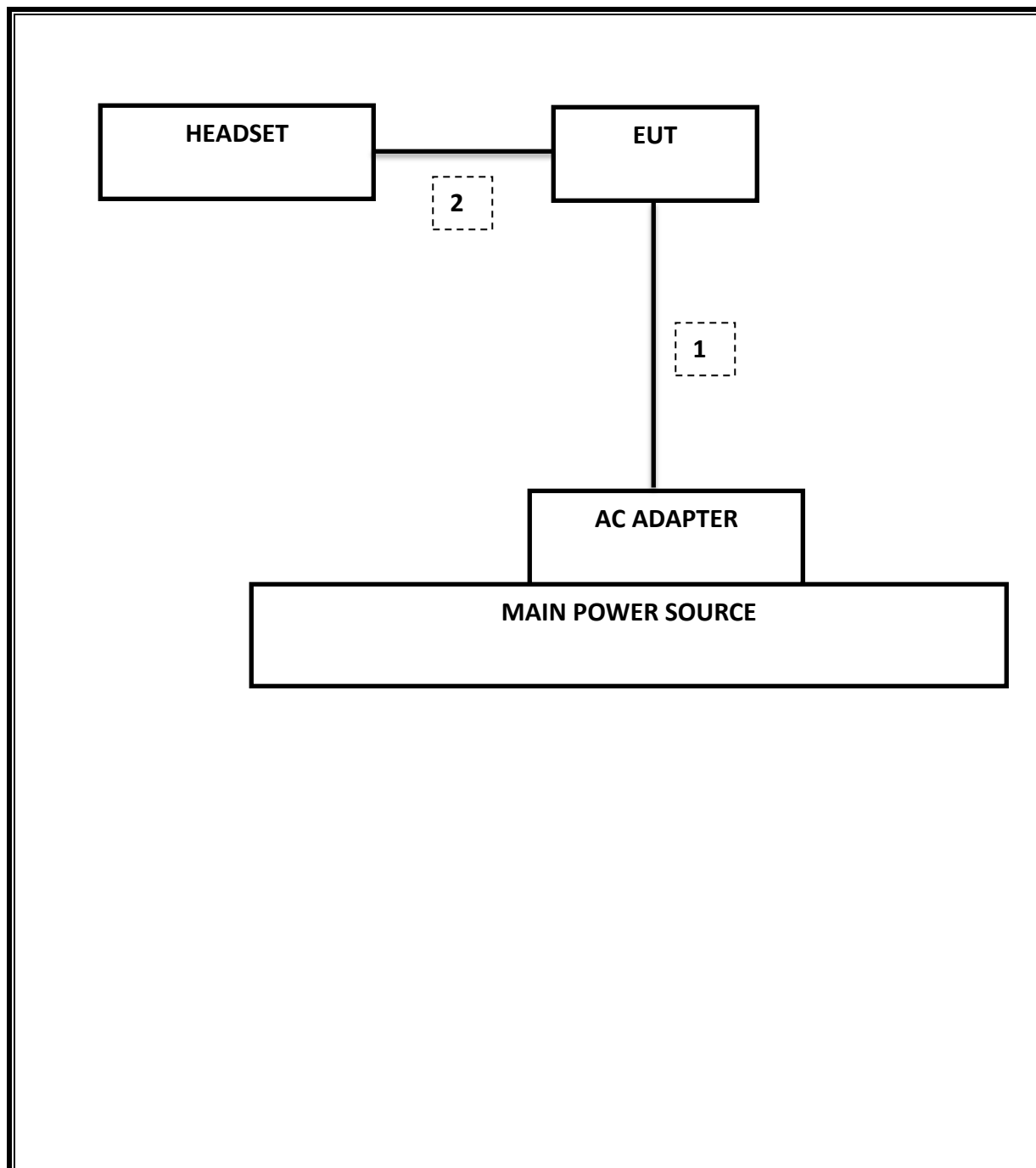
I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

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	10/25/15
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/15
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/15
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/15
CBT Bluetooth Tester	R & S	CBT	None	07/12/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
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	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15

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	1.203MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-39.36dBm
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	11.32dBm
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	0.257sec
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	47.38dBuV(PK)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	45.02dBuV/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	0.928	0.887
Middle	2441	0.926	0.866
High	2480	0.929	0.853
Worst		0.929	0.887

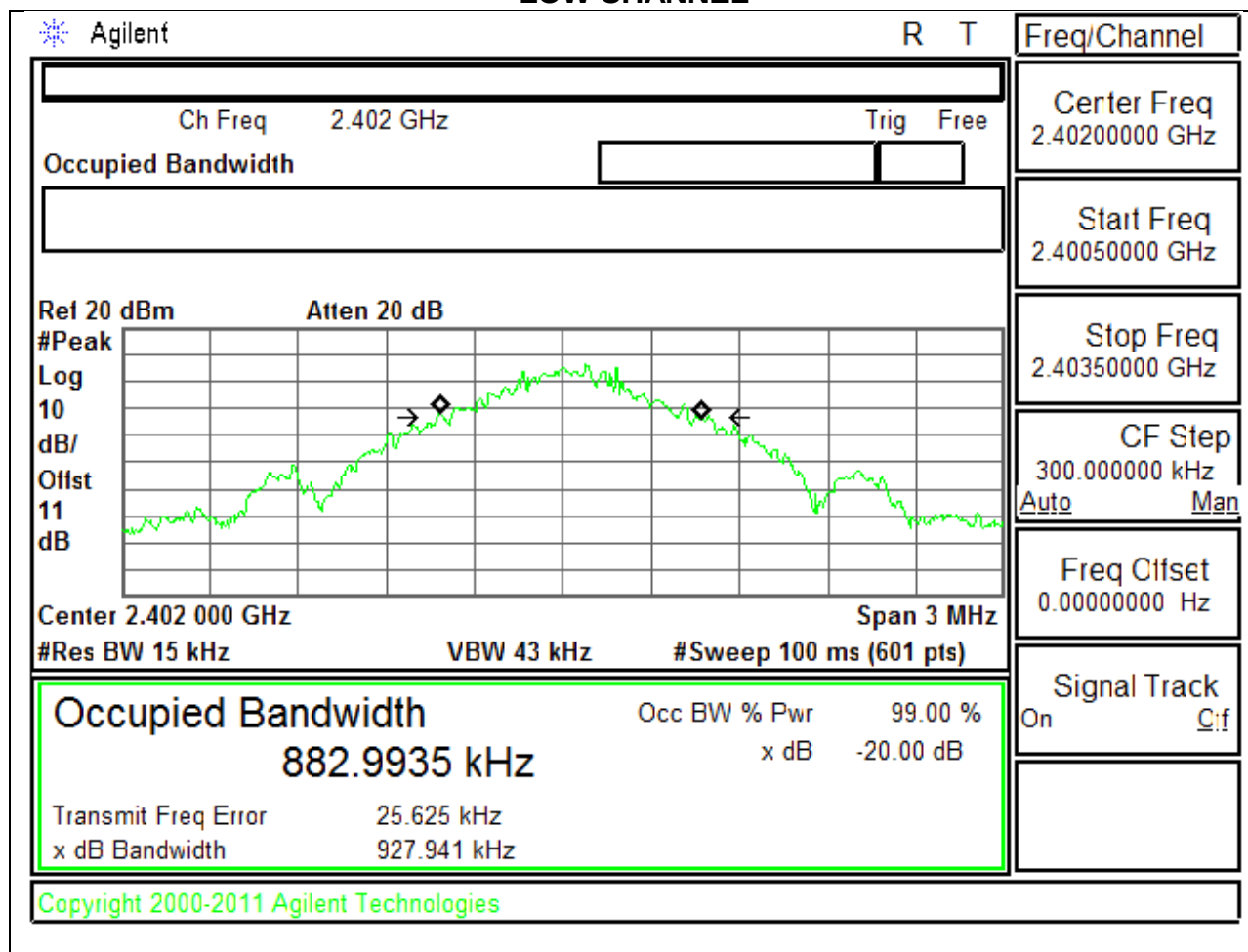
8.1.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.262	1.164
Middle	2441	1.263	1.203
High	2480	1.263	1.161
Worst		1.263	1.203

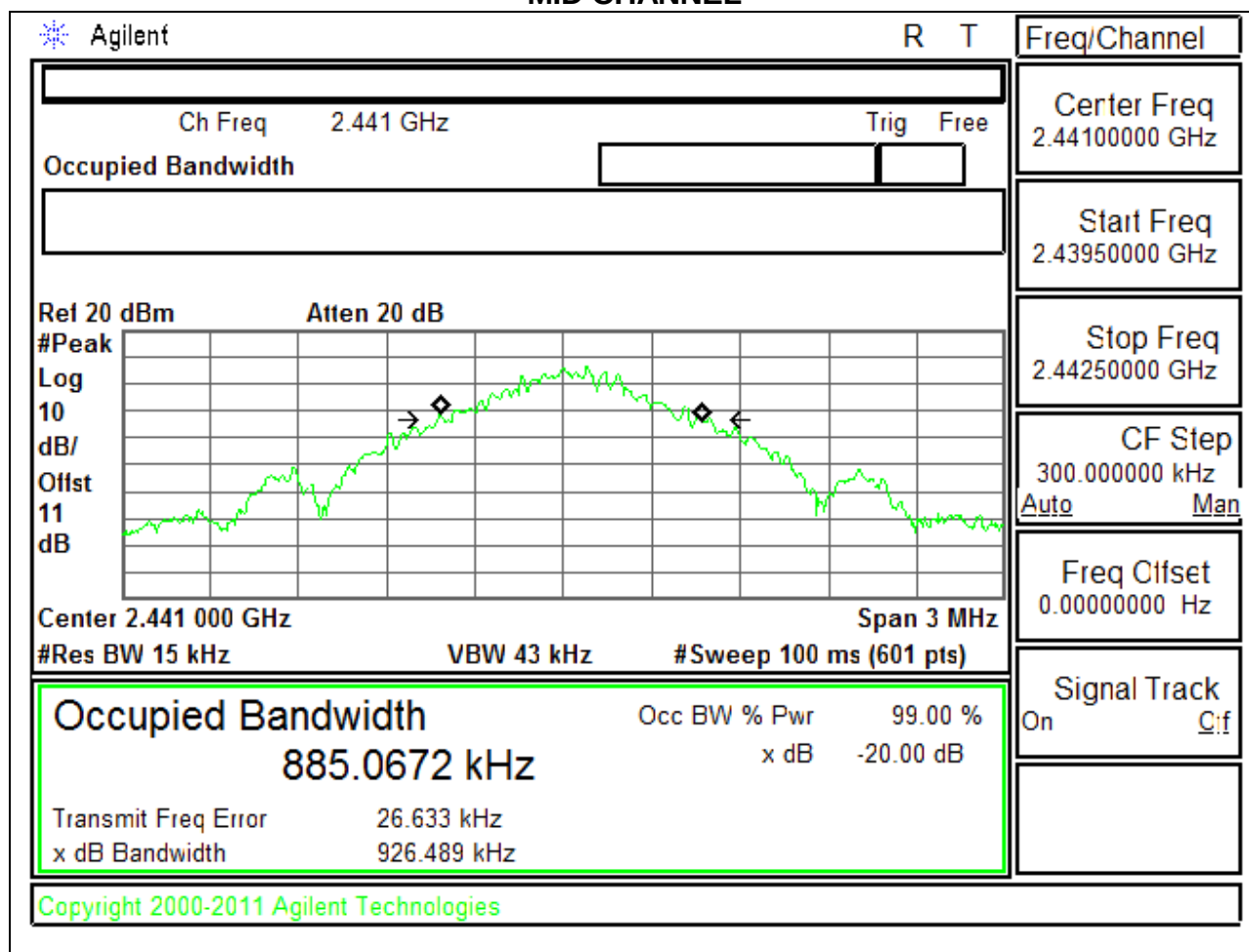
20 dB AND 99% BANDWIDTH PLOTS

GFSK 20 dB BANDWIDTH

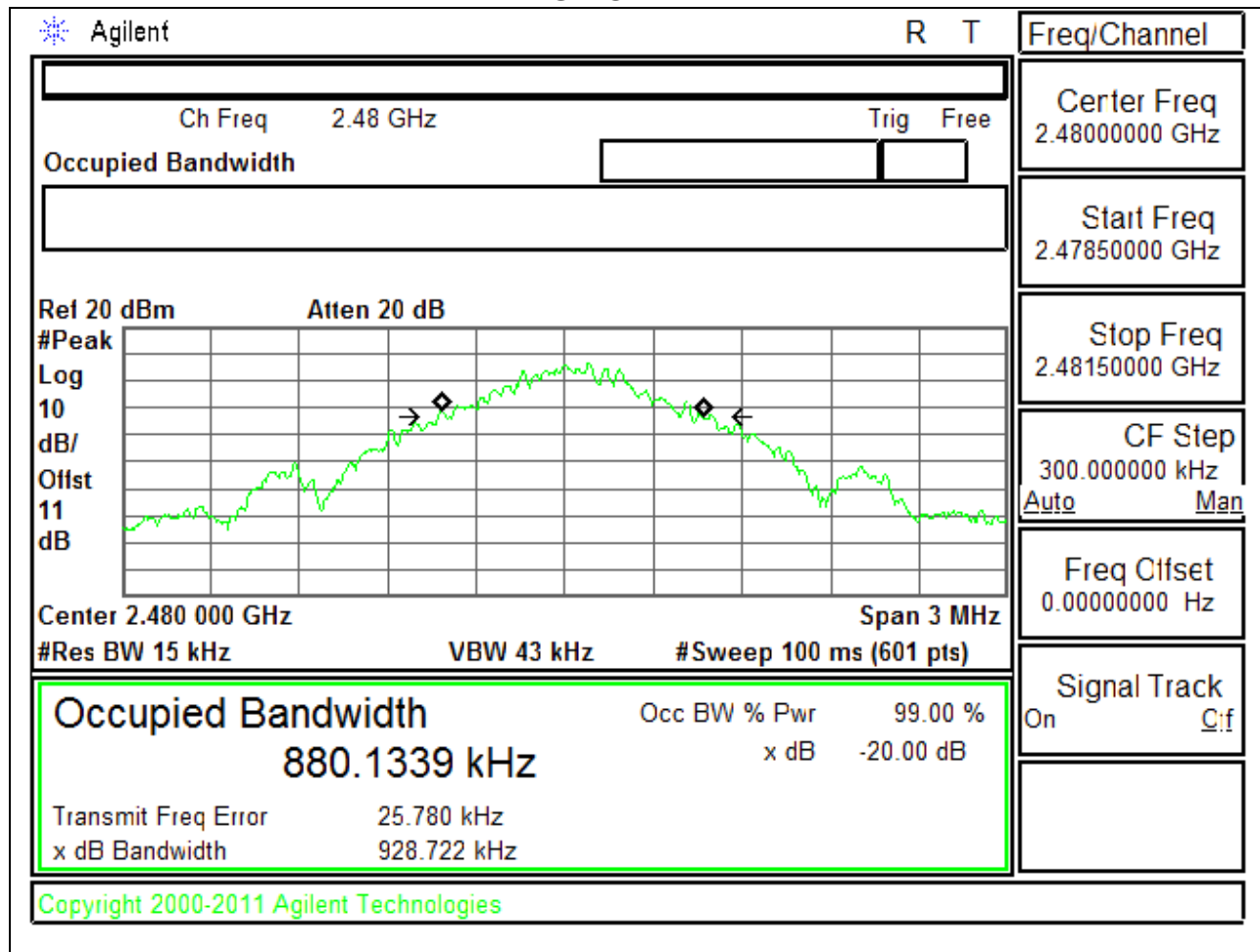
LOW CHANNEL



MID CHANNEL

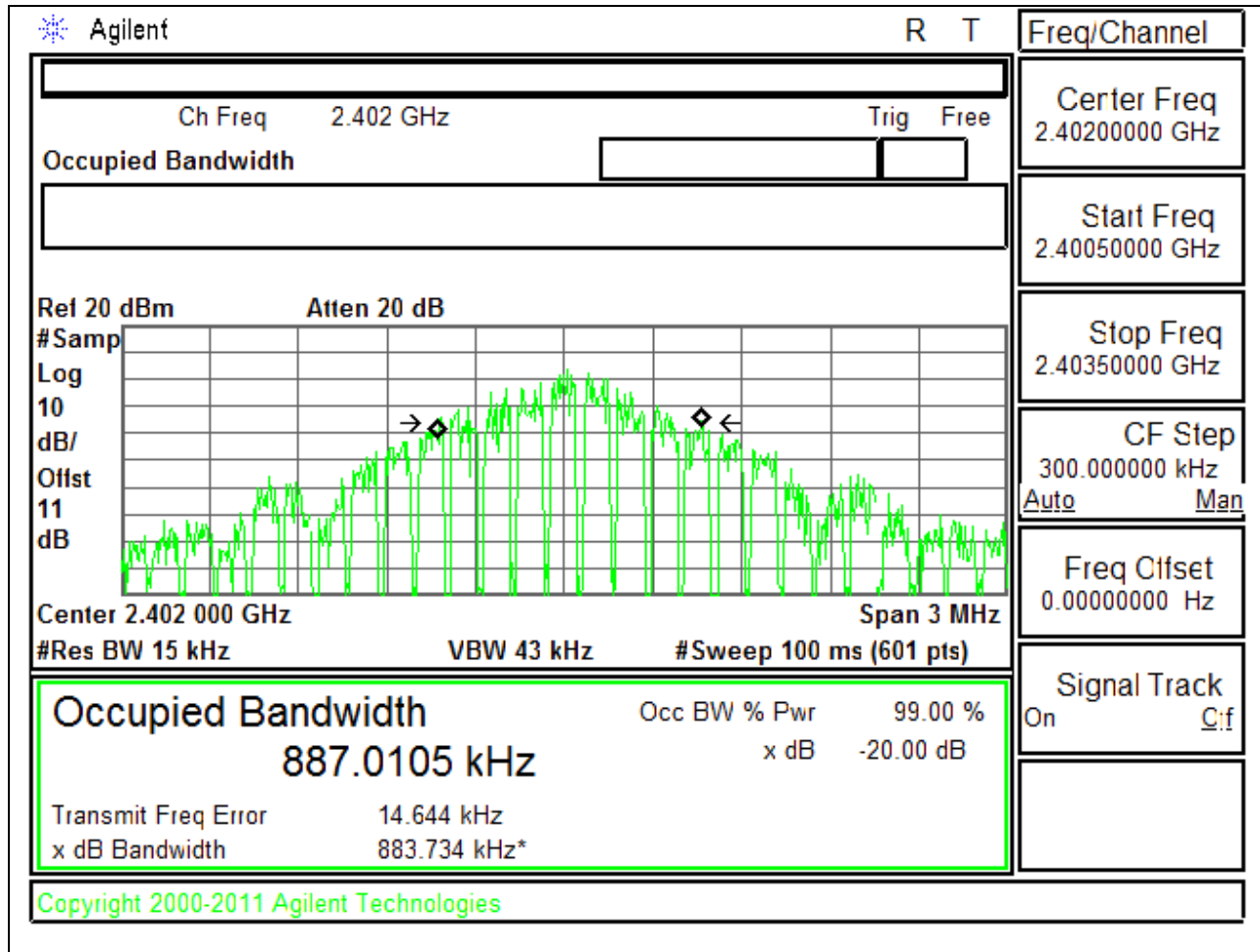


HIGH CHANNEL

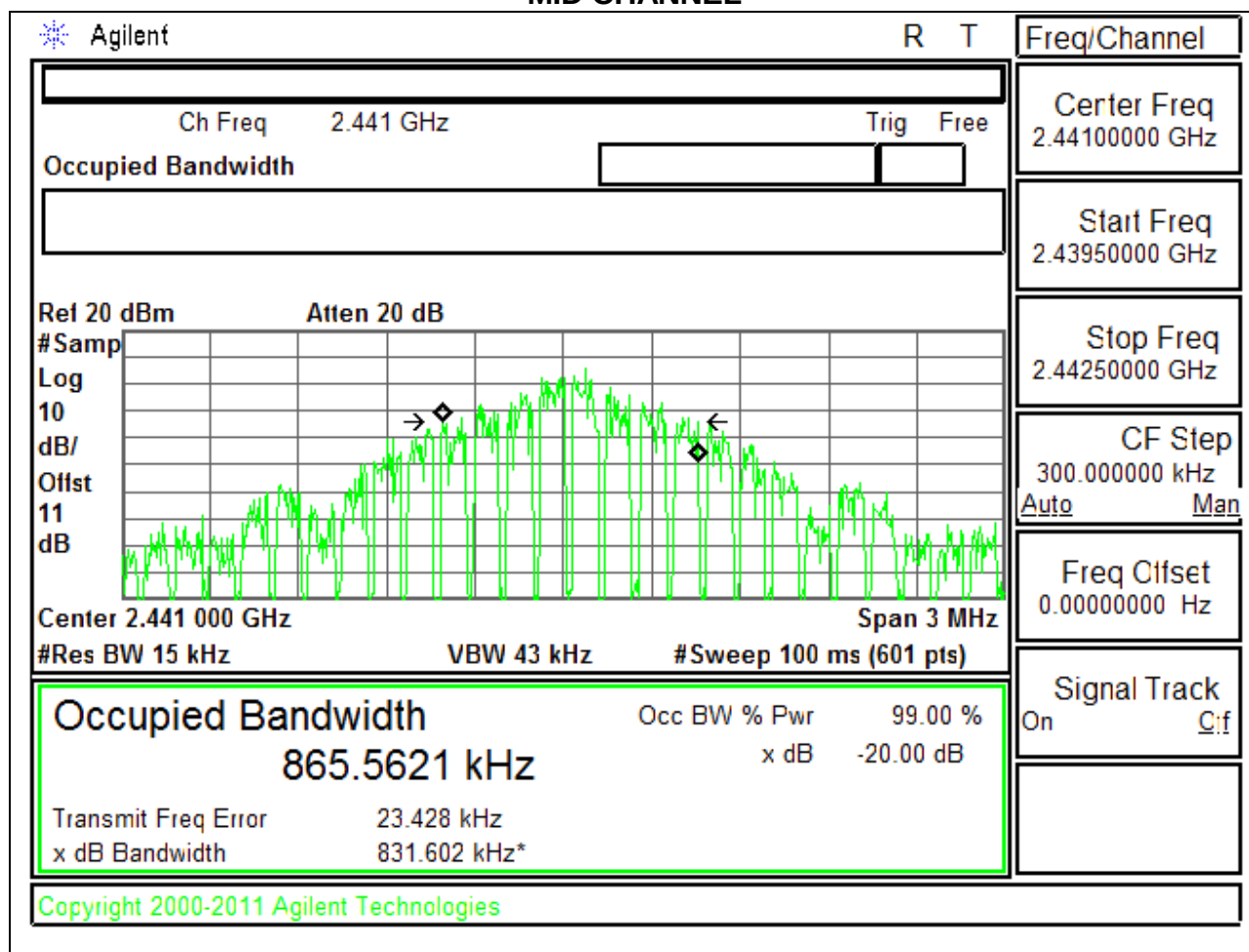


GFSK 99% BANDWIDTH

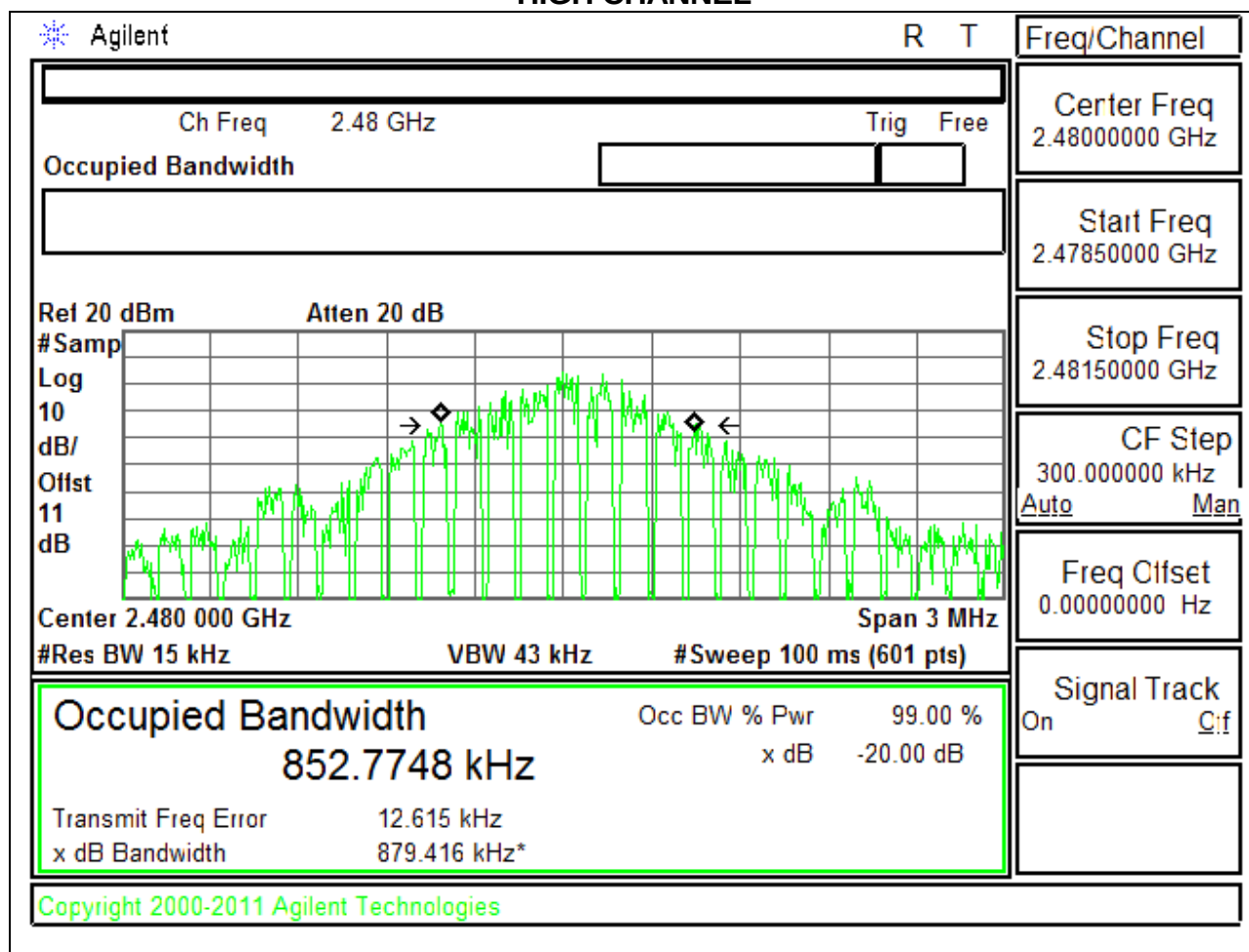
LOW CHANNEL



MID CHANNEL

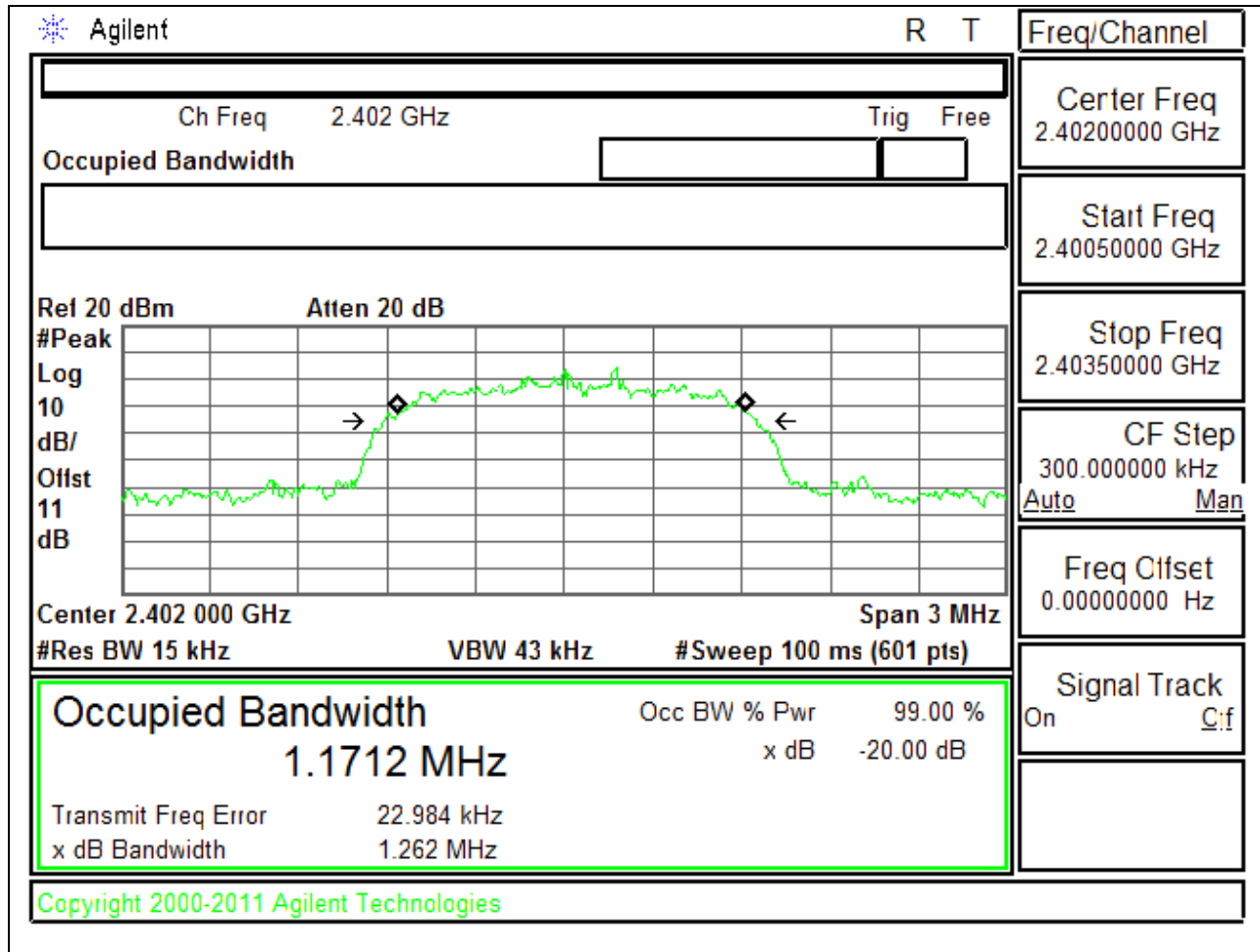


HIGH CHANNEL

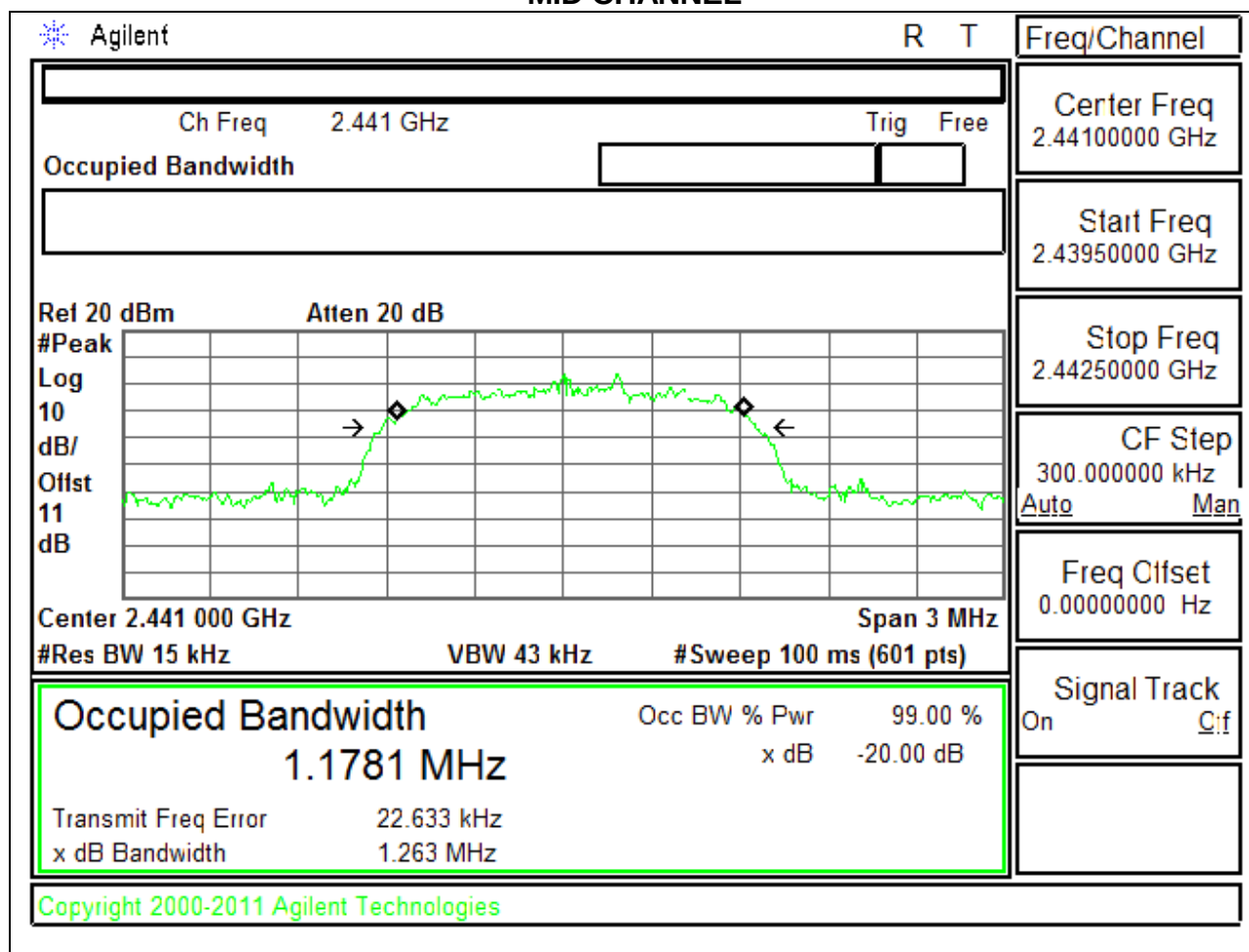


8PSK 20 dB BANDWIDTH

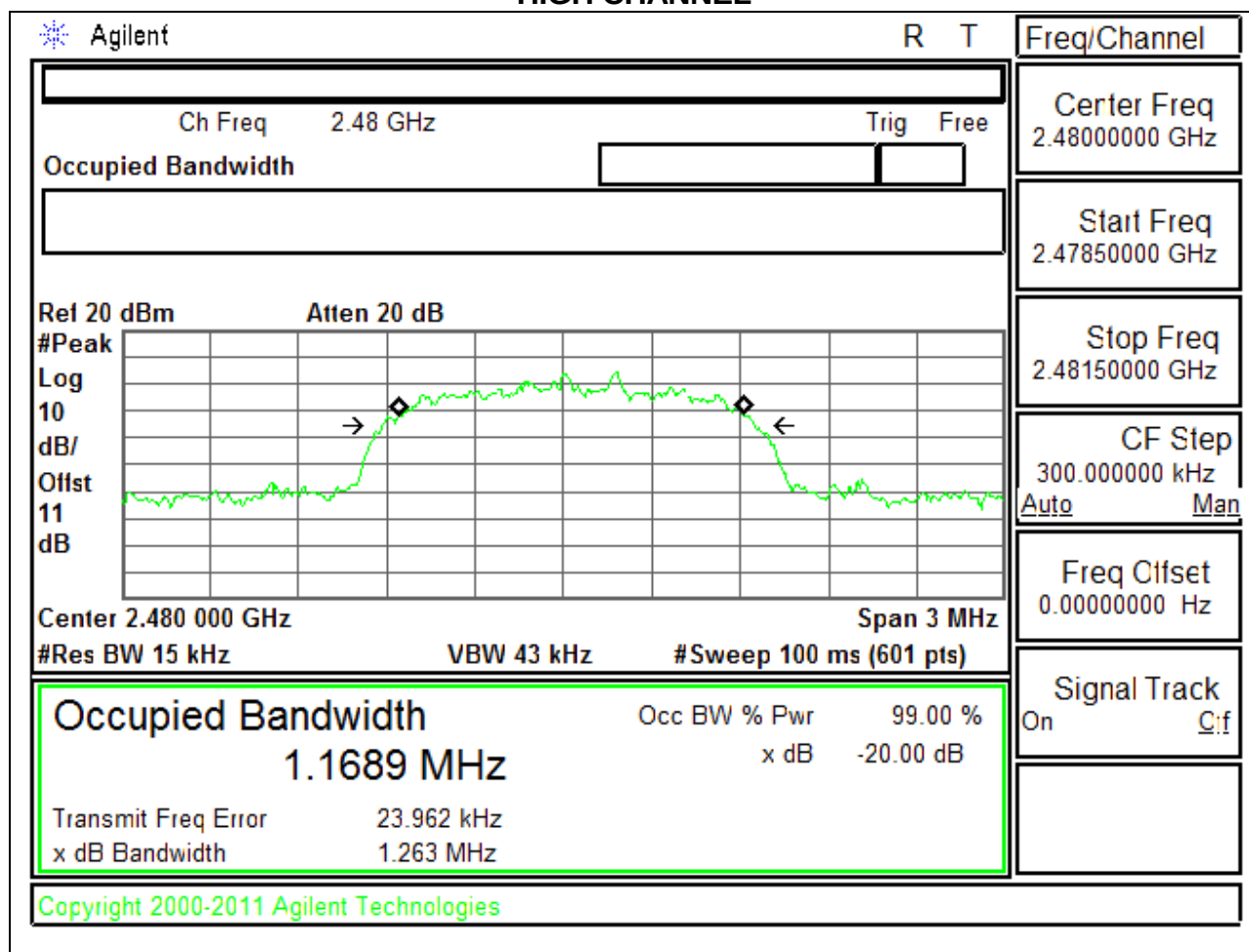
LOW CHANNEL



MID CHANNEL

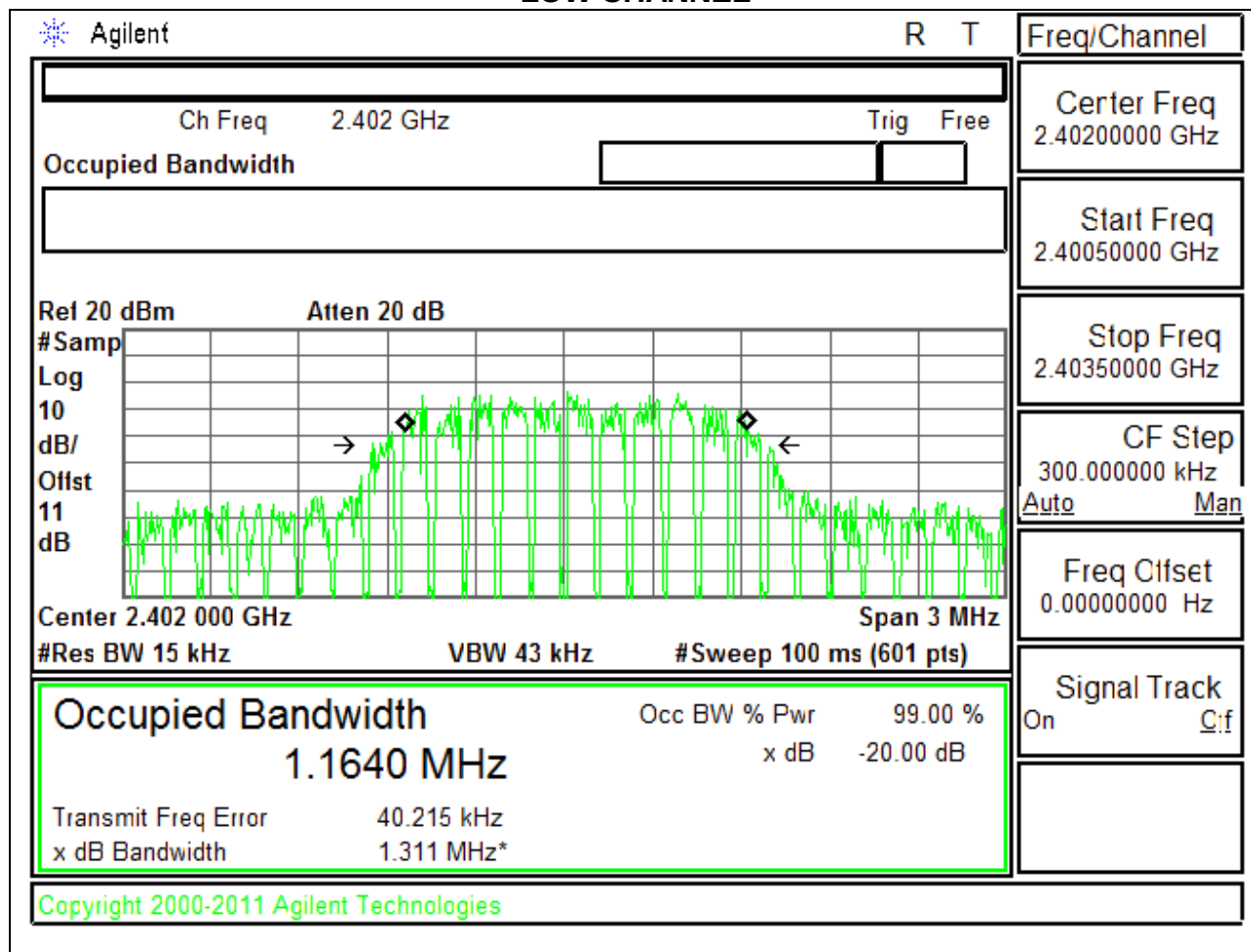


HIGH CHANNEL

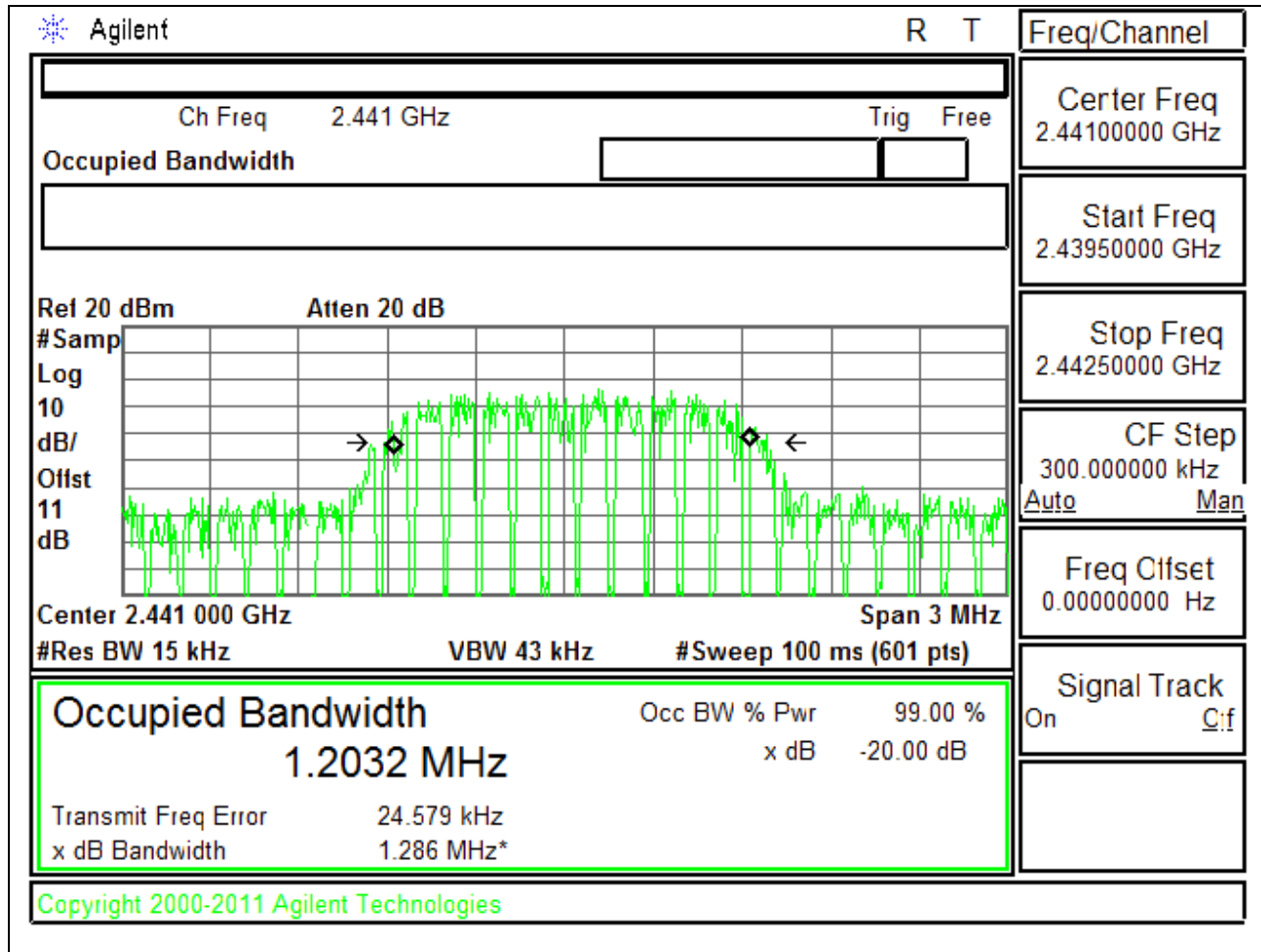


8PSK 99% BANDWIDTH

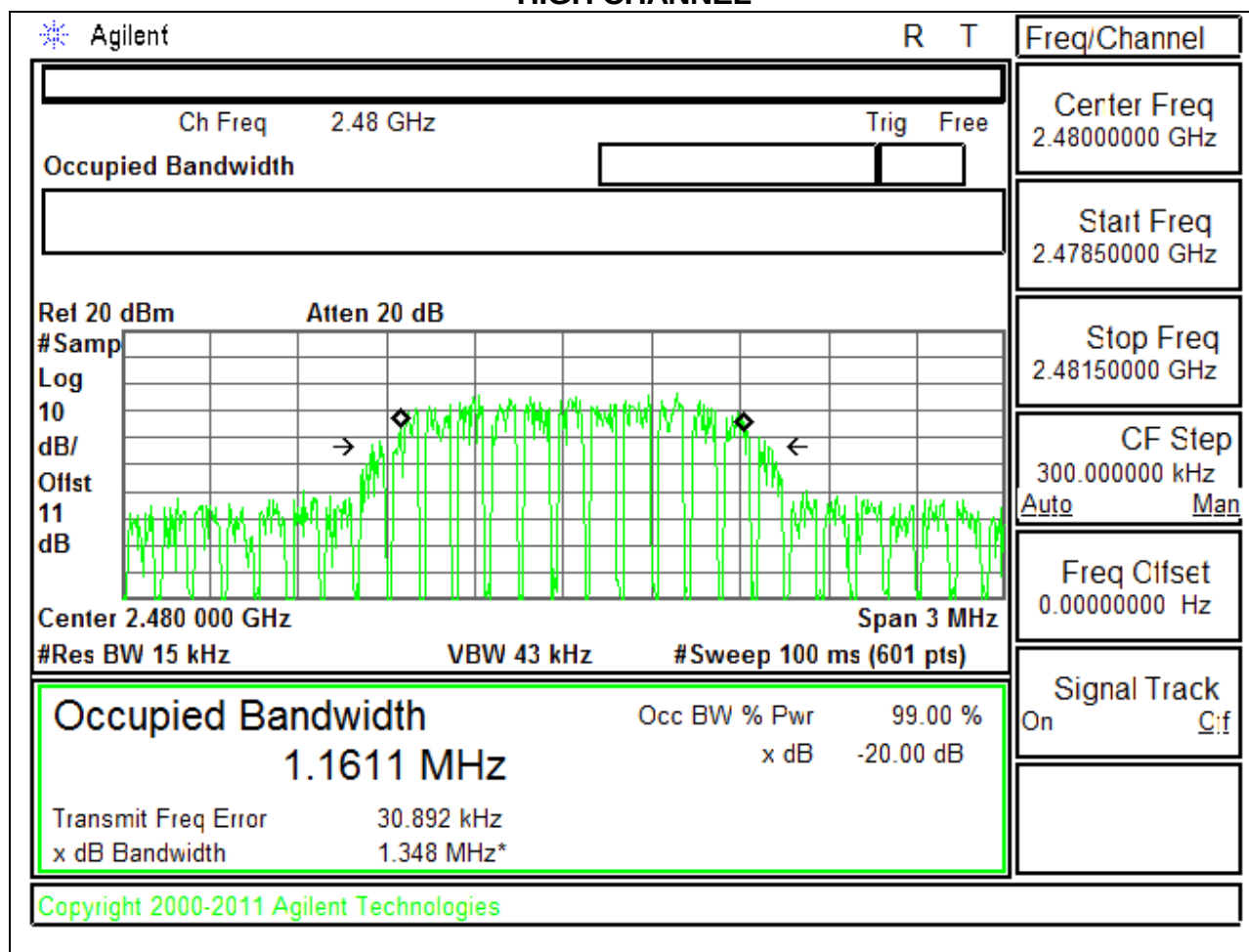
LOW CHANNEL



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.

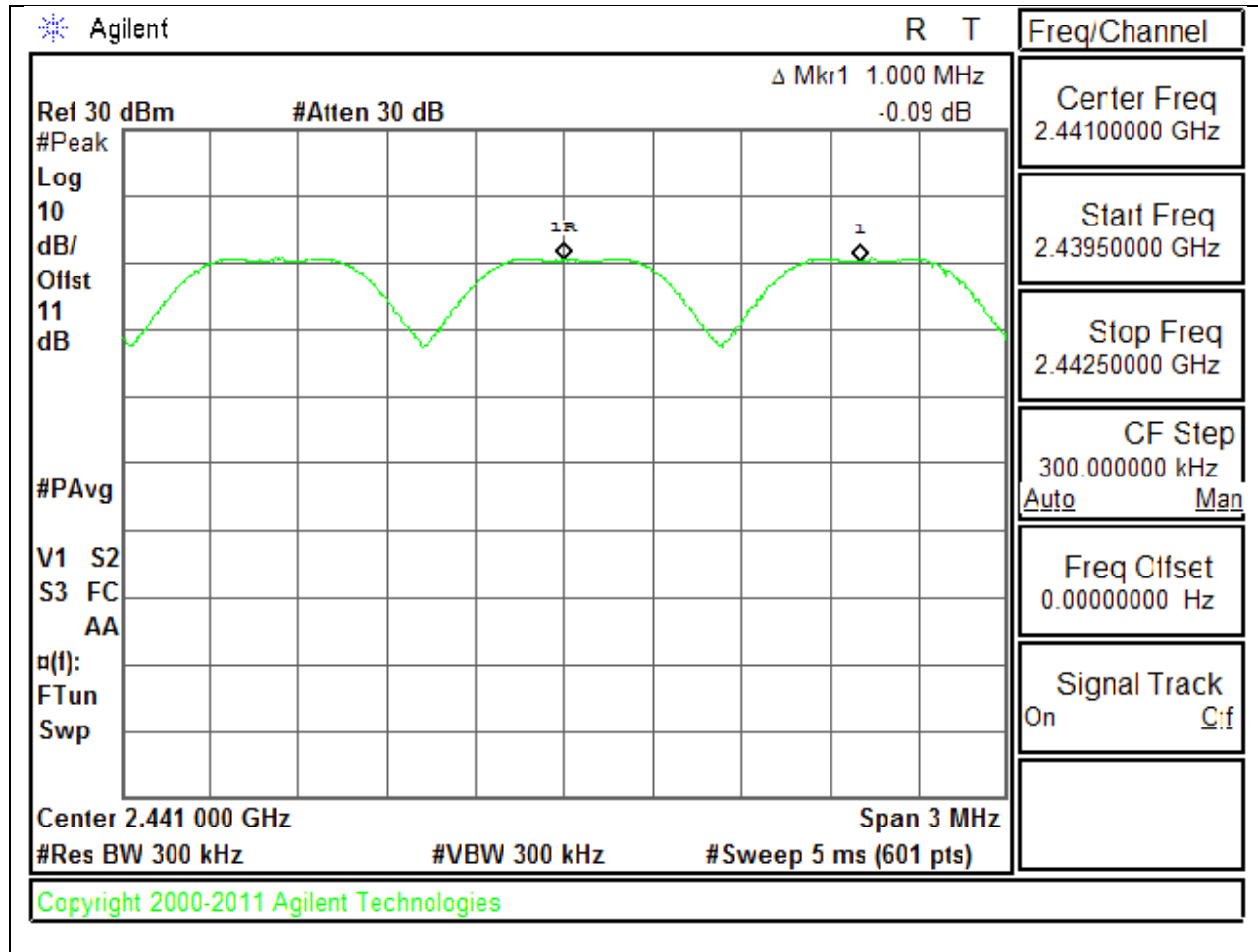
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

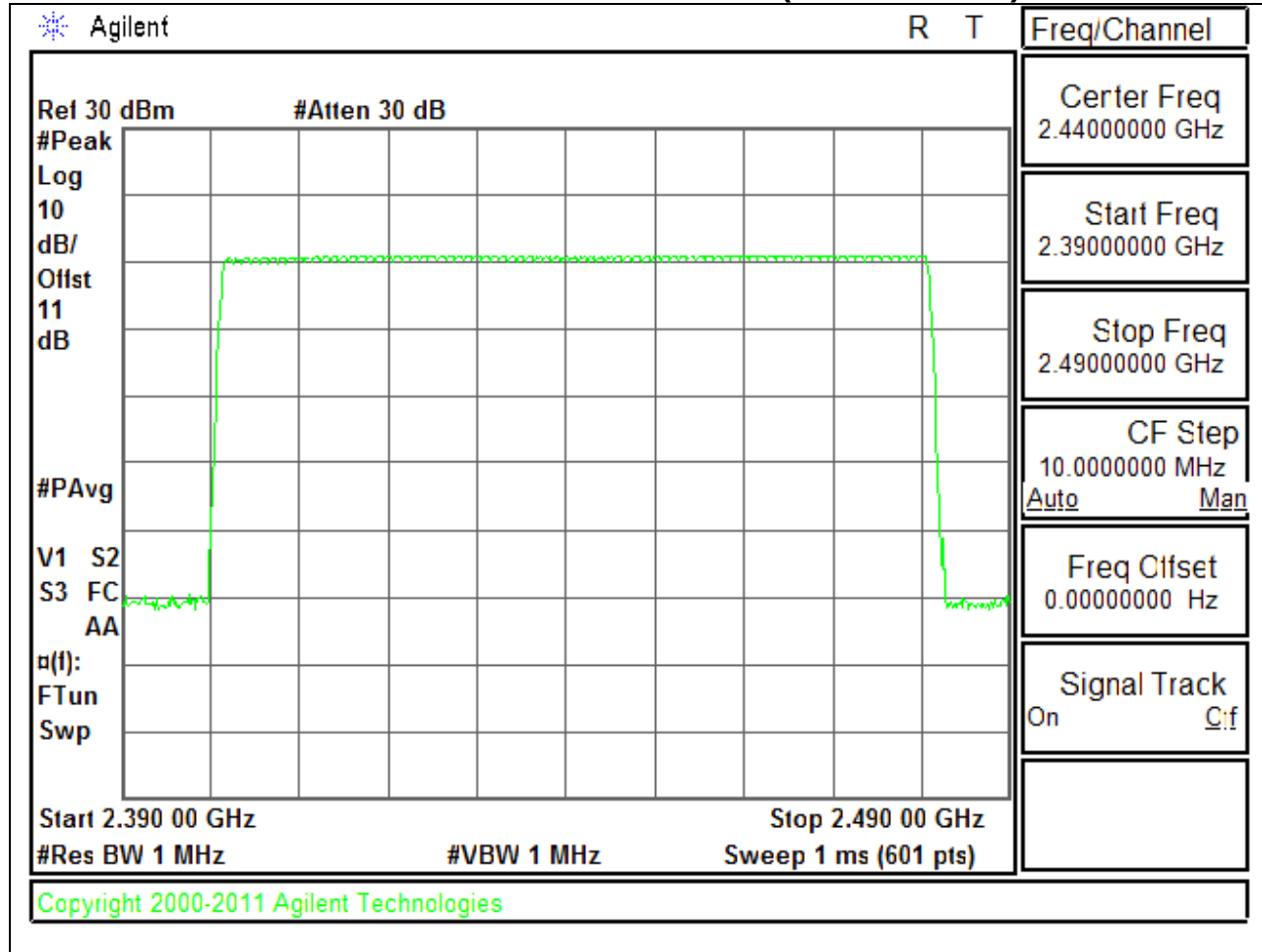
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

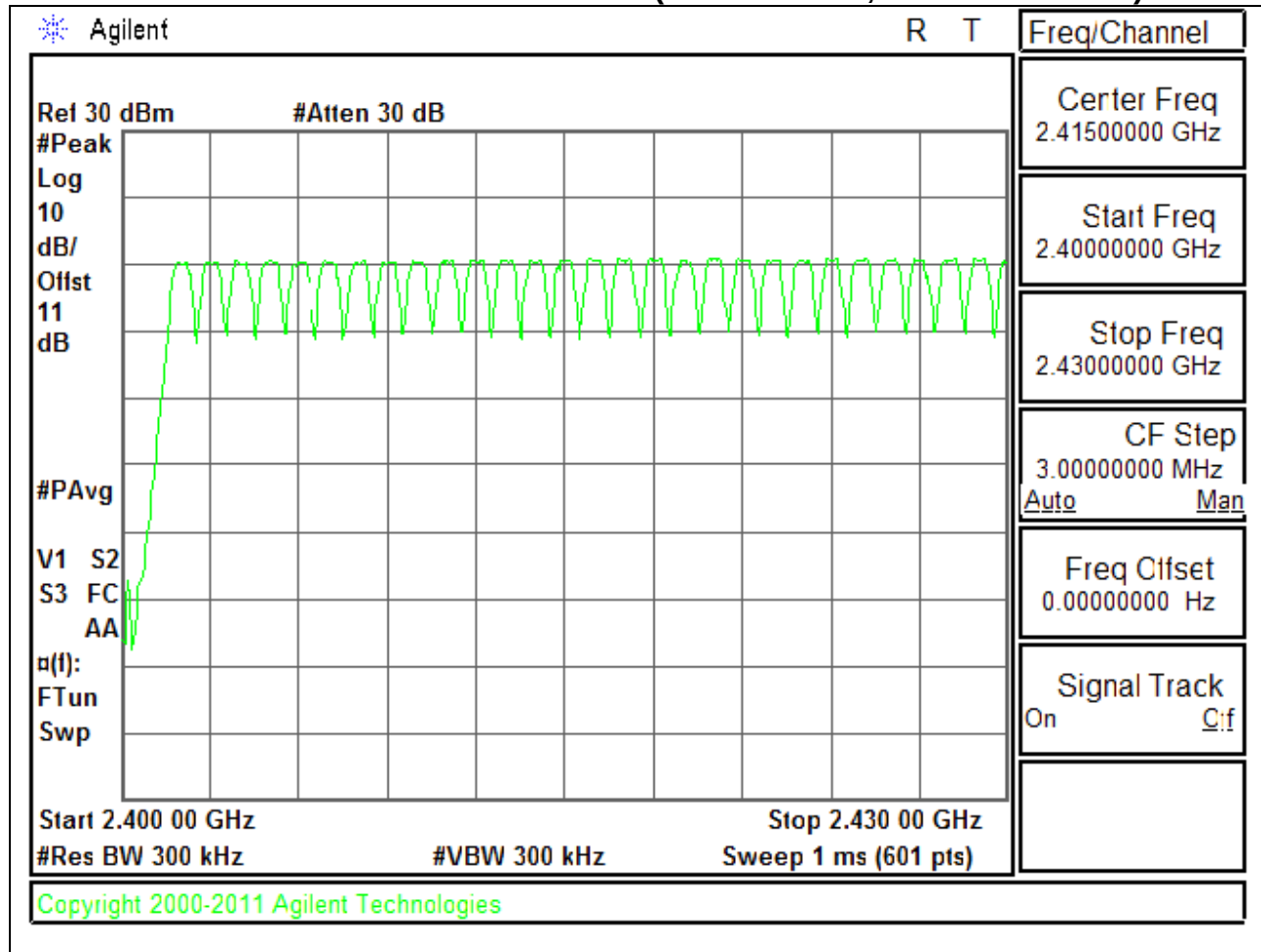
Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS PLOTS

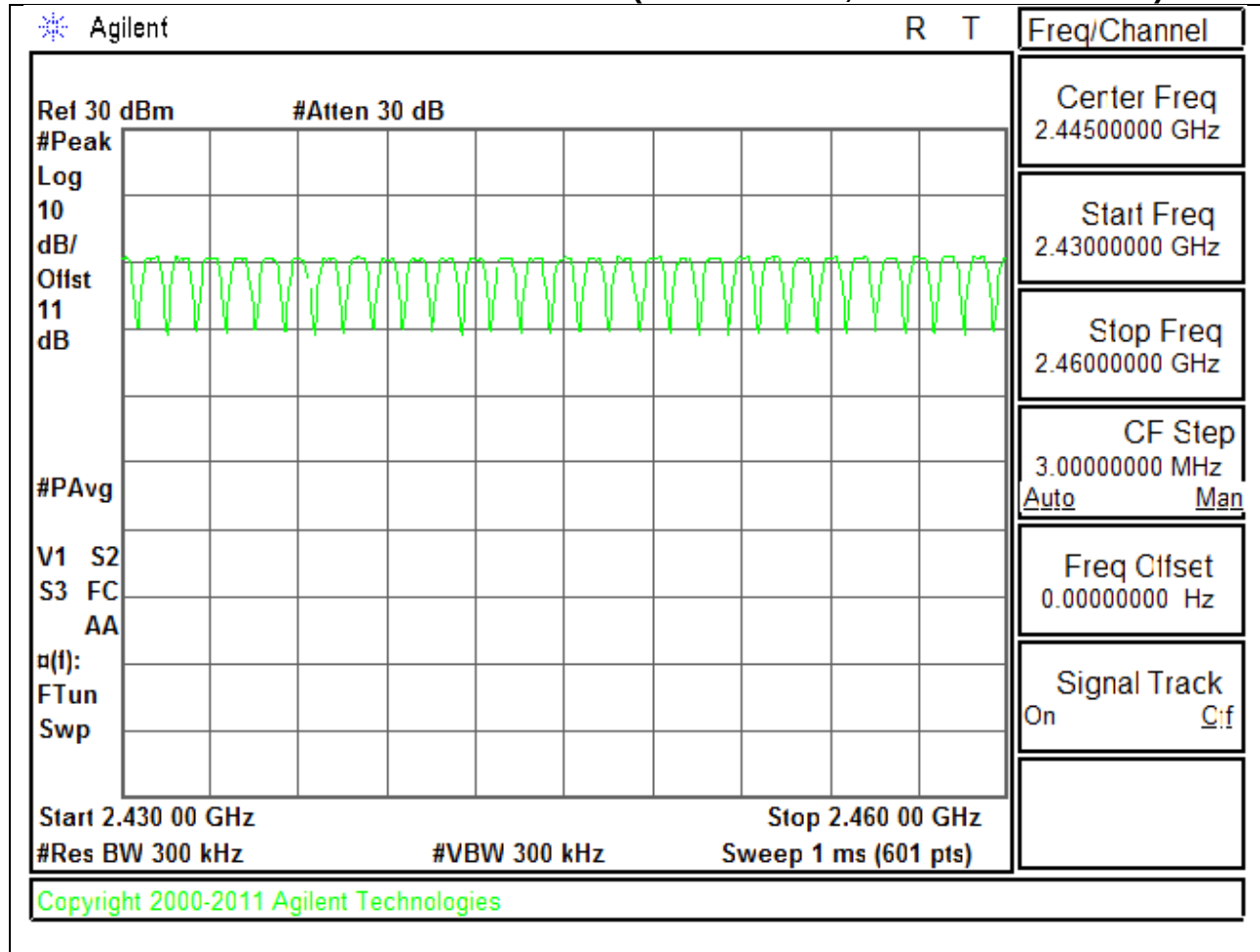
NUMBER OF HOPPING CHANNELS (100 MHZ SPAN)



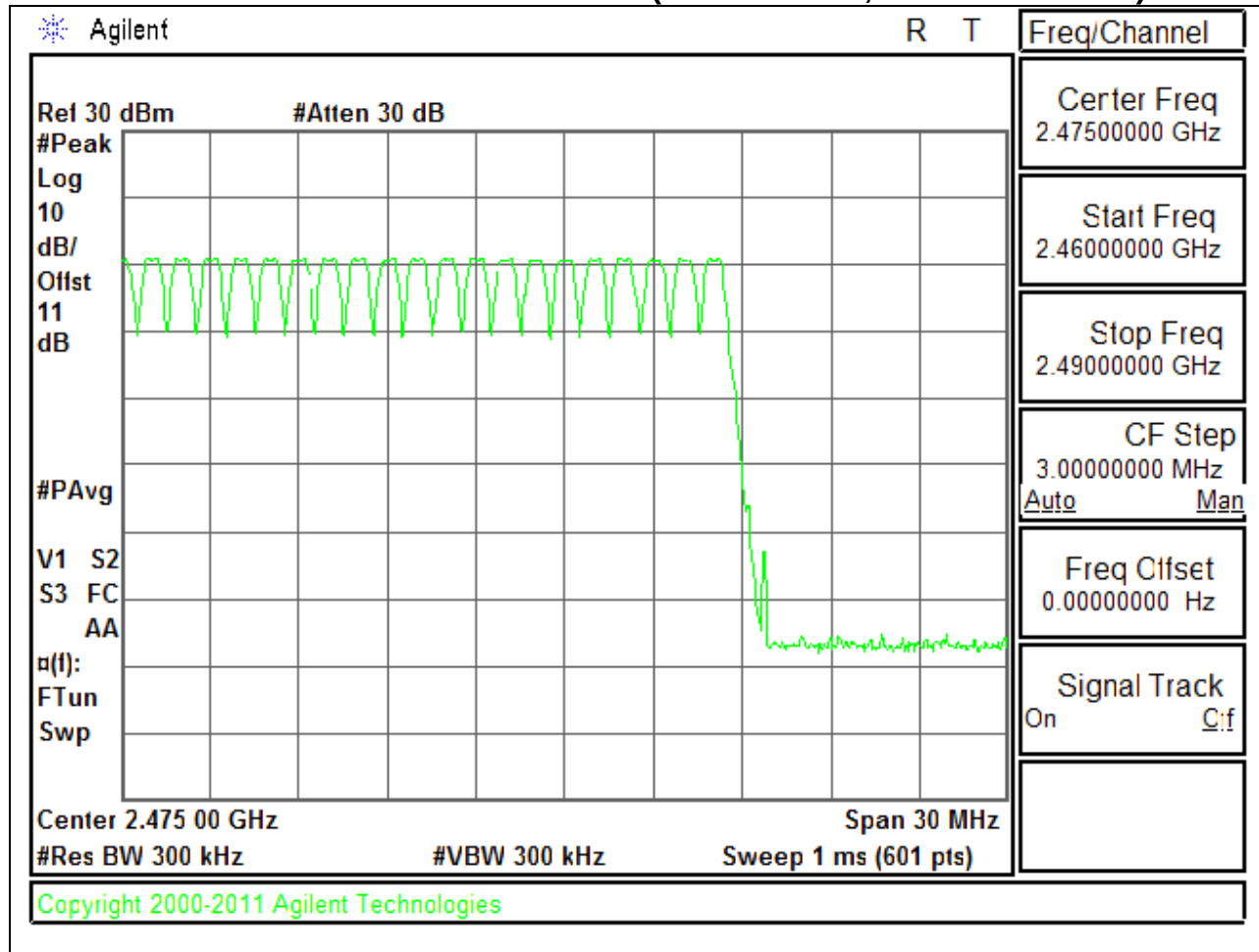
NUMBER OF HOPPING CHANNELS (30 MHZ SPAN, FIRST SEGMENT)



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.

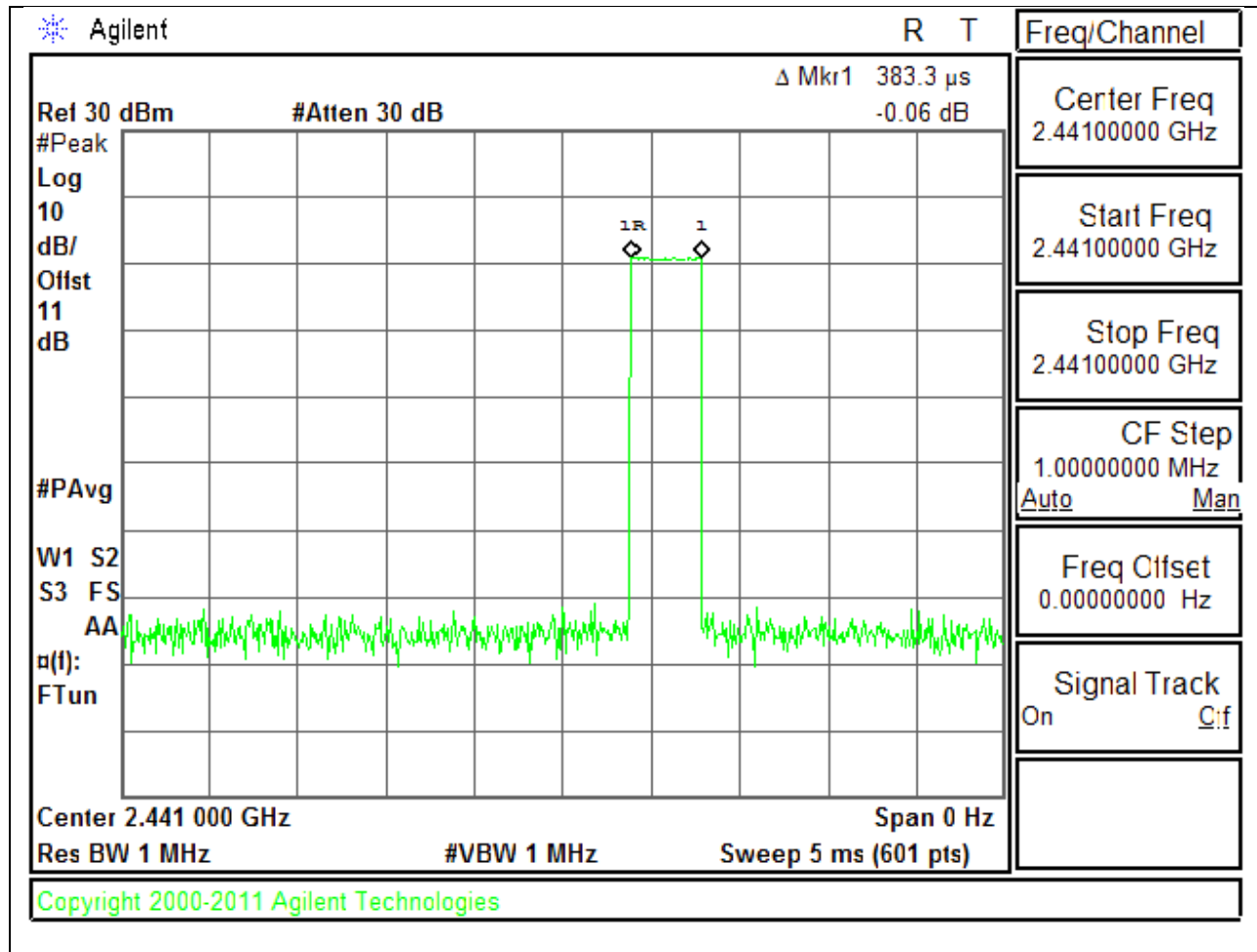
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\text{\# of pulses in 3.16 s}) * \text{pulse width}$.

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

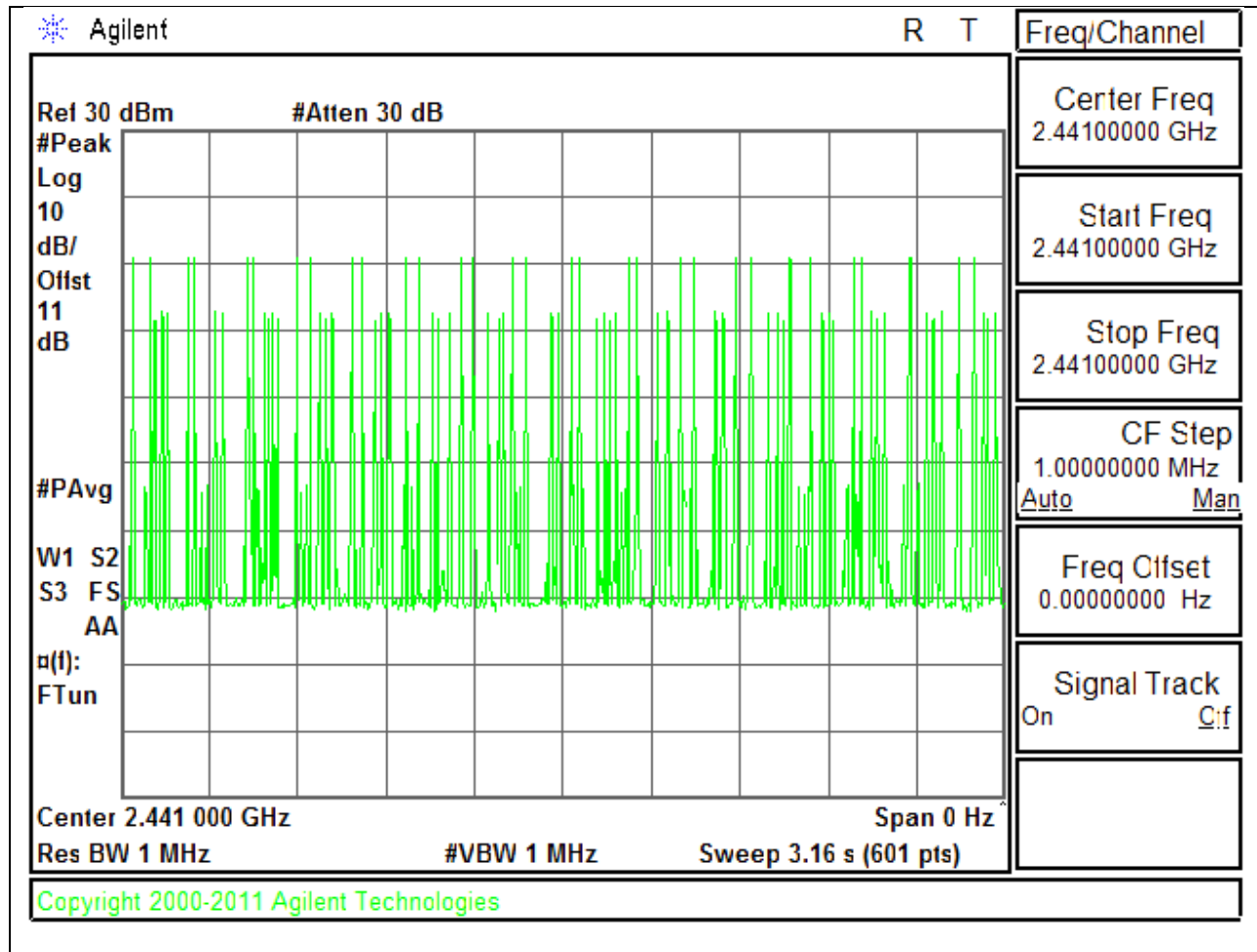
RESULTS

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	31	0.118823	0.4	-0.28118
DH3	1.625	13	0.21125	0.4	-0.18875
DH5	2.858	9	0.25722	0.4	-0.14278
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	7.75	0.02970575	0.4	-0.37029
DH3	1.625	3.25	0.0528125	0.4	-0.34719
DH5	2.858	2.25	0.064305	0.4	-0.3357

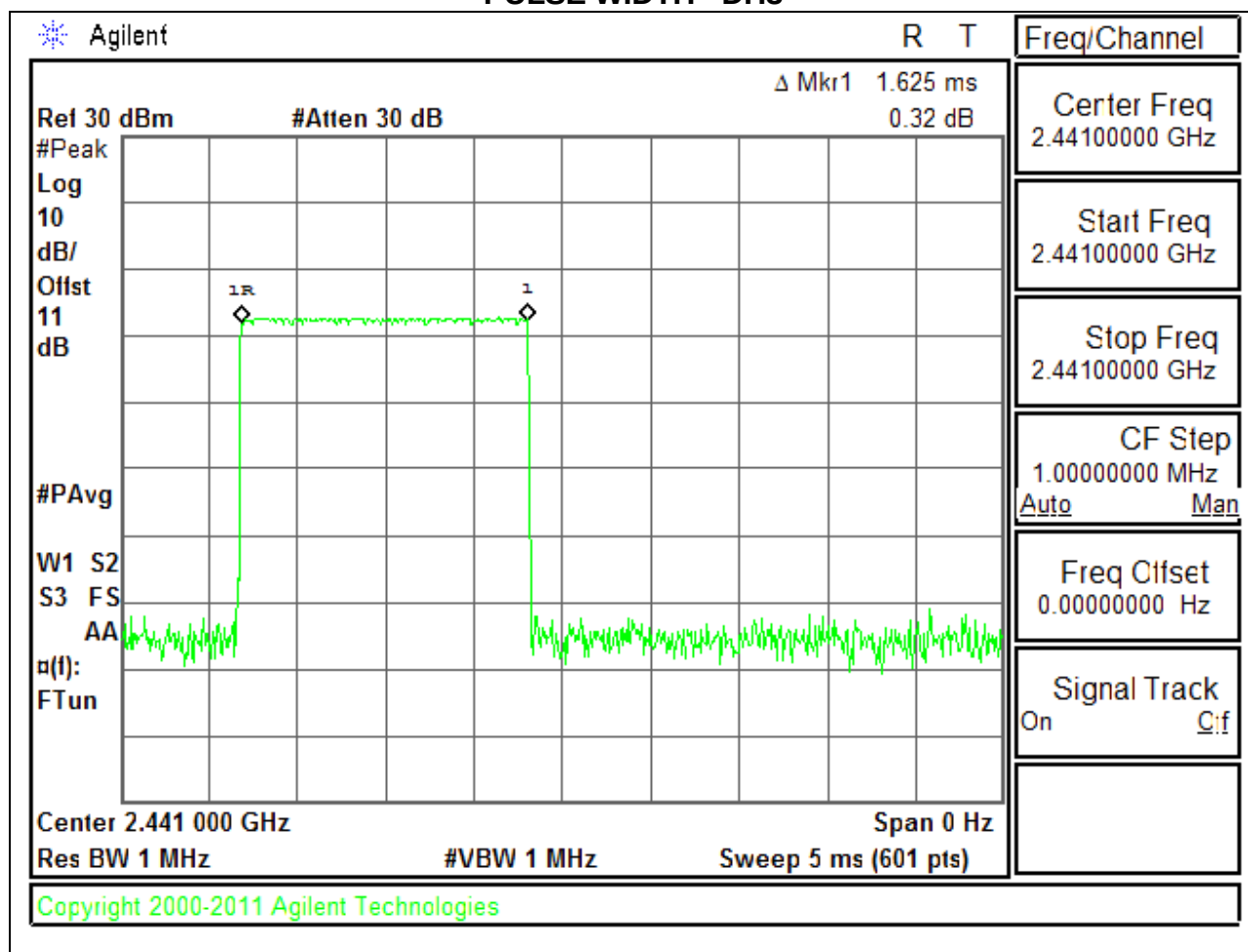
PULSE WIDTH - DH1



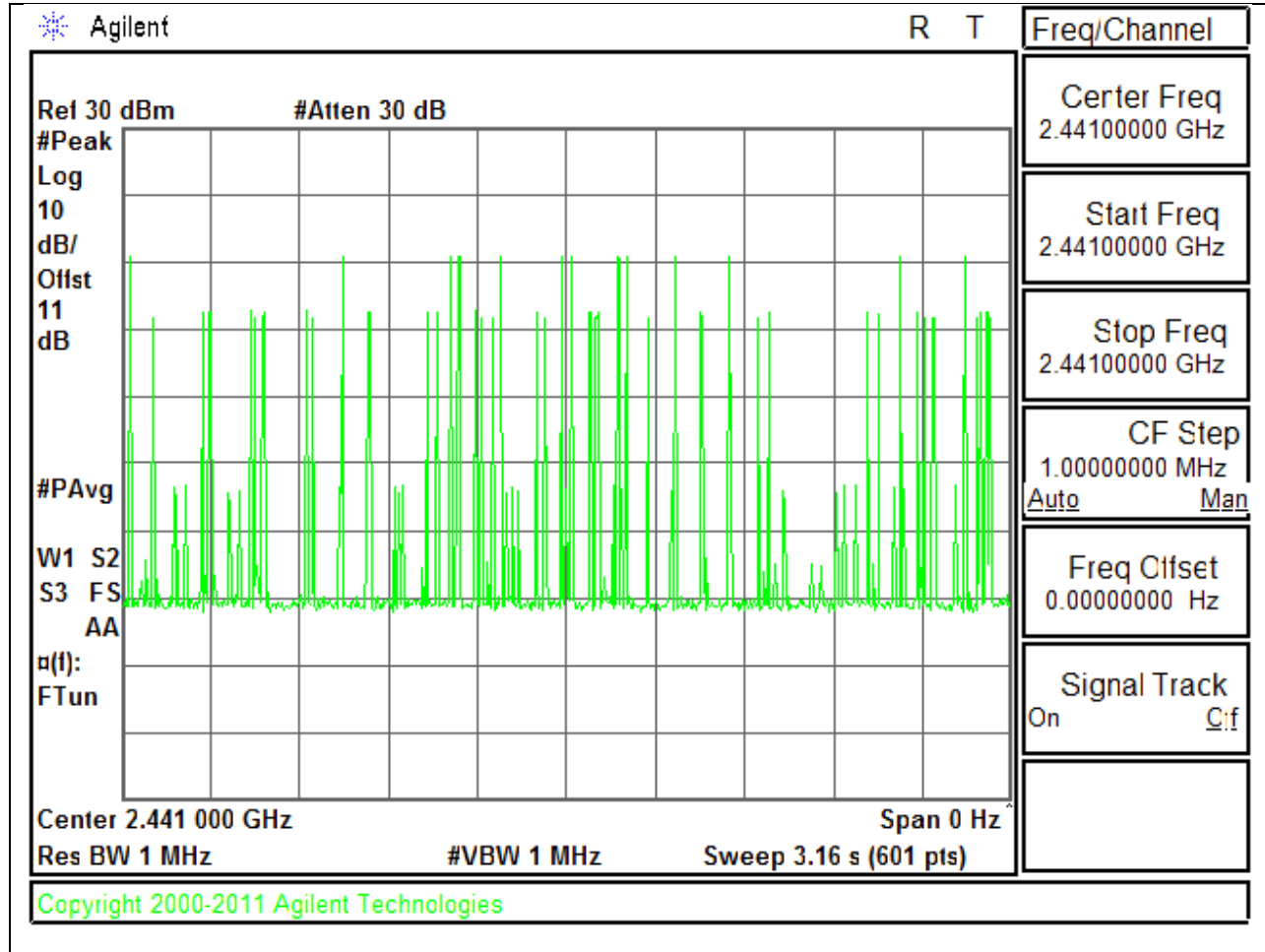
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



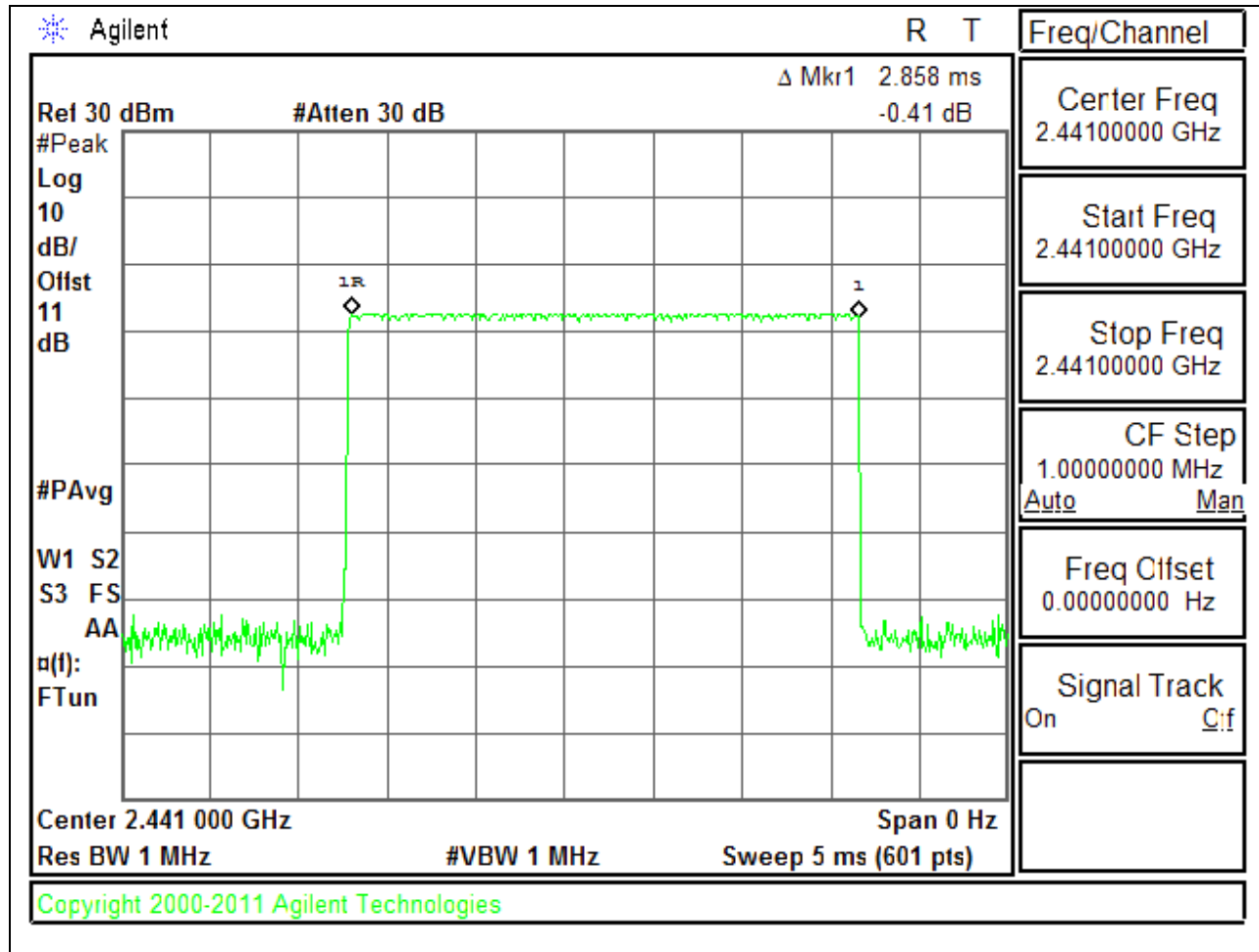
PULSE WIDTH - DH3



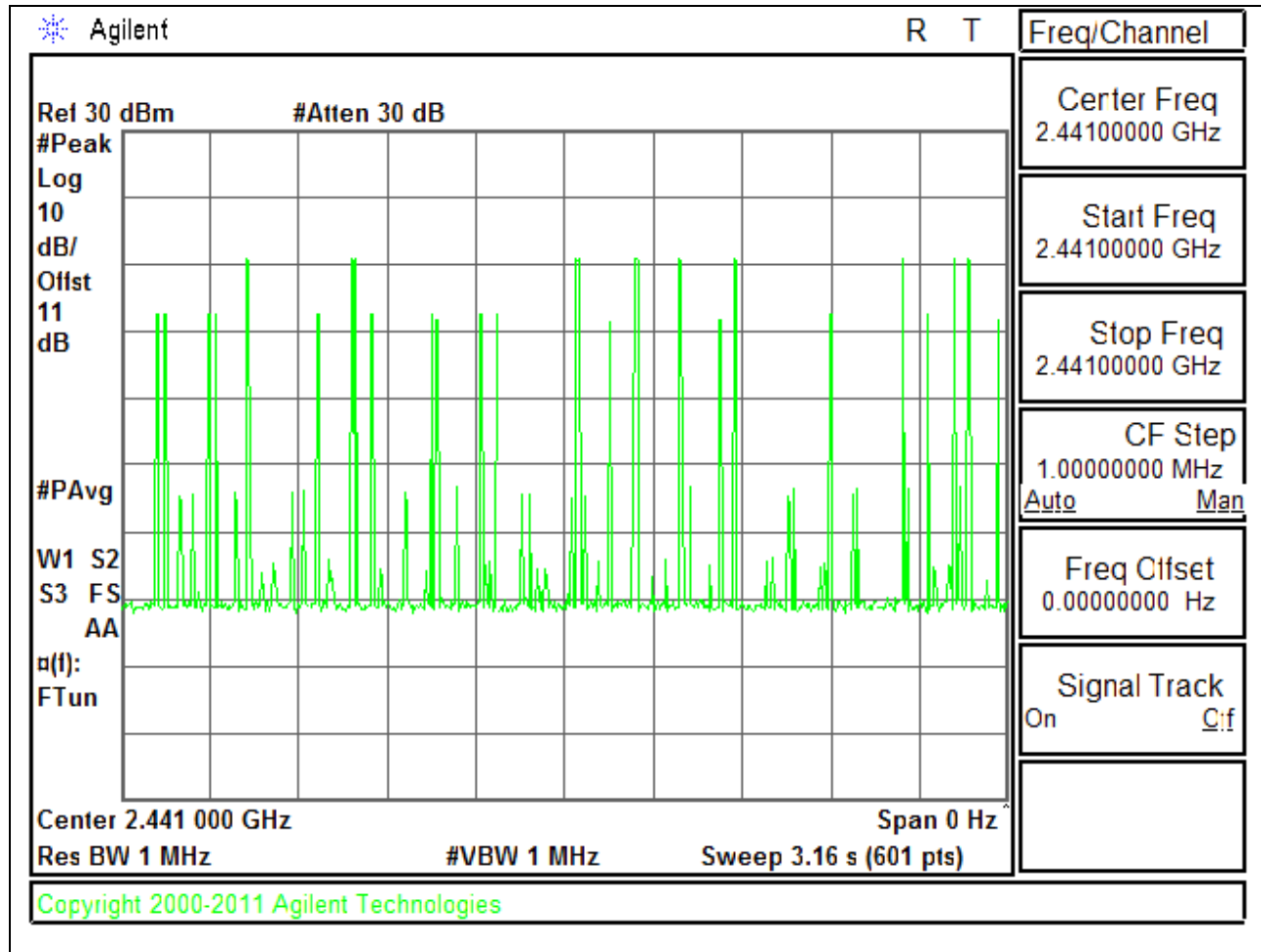
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH3



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

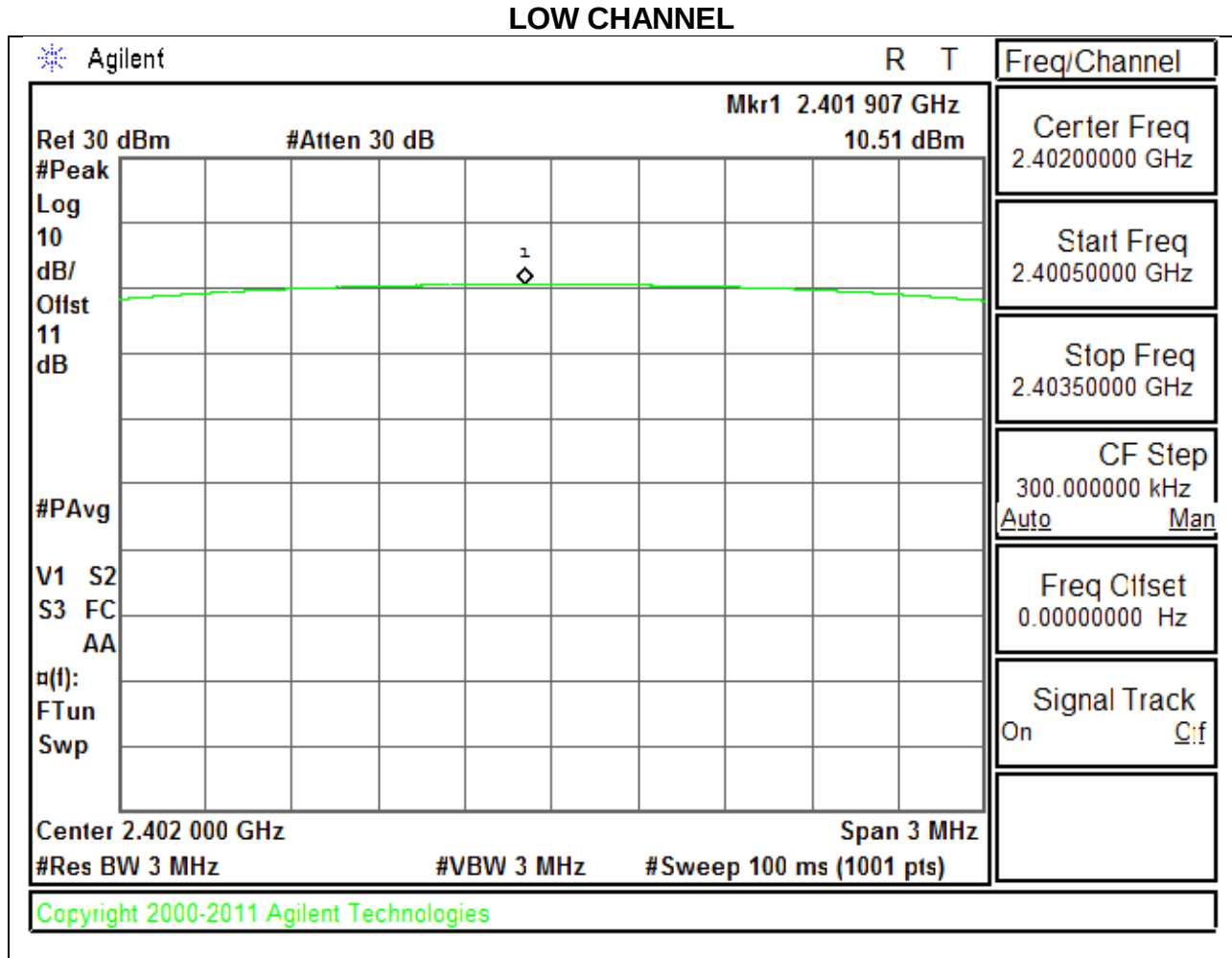
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	10.51	21	-10.49
Middle	2441	10.78	21	-10.22
High	2480	10.97	21	-10.03
Worst		10.97		-10.03

8.5.2. ENHANCED DATA RATE 8PSK MODULATION

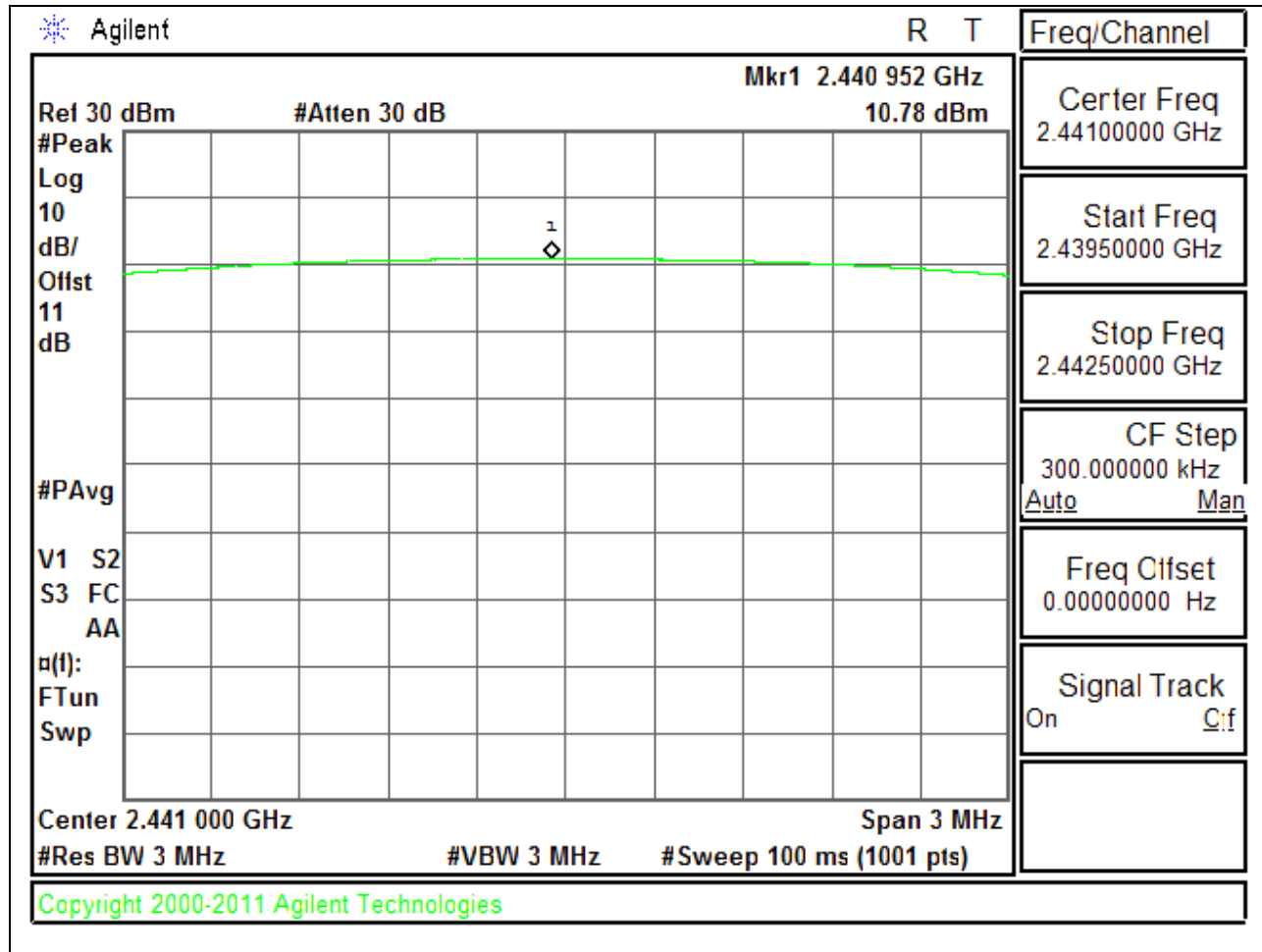
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	10.87	21	-10.13
Middle	2441	11.14	21	-9.86
High	2480	11.32	21	-9.68
Worst		11.32		-9.68

8.5.3. OUTPUT POWER PLOTS

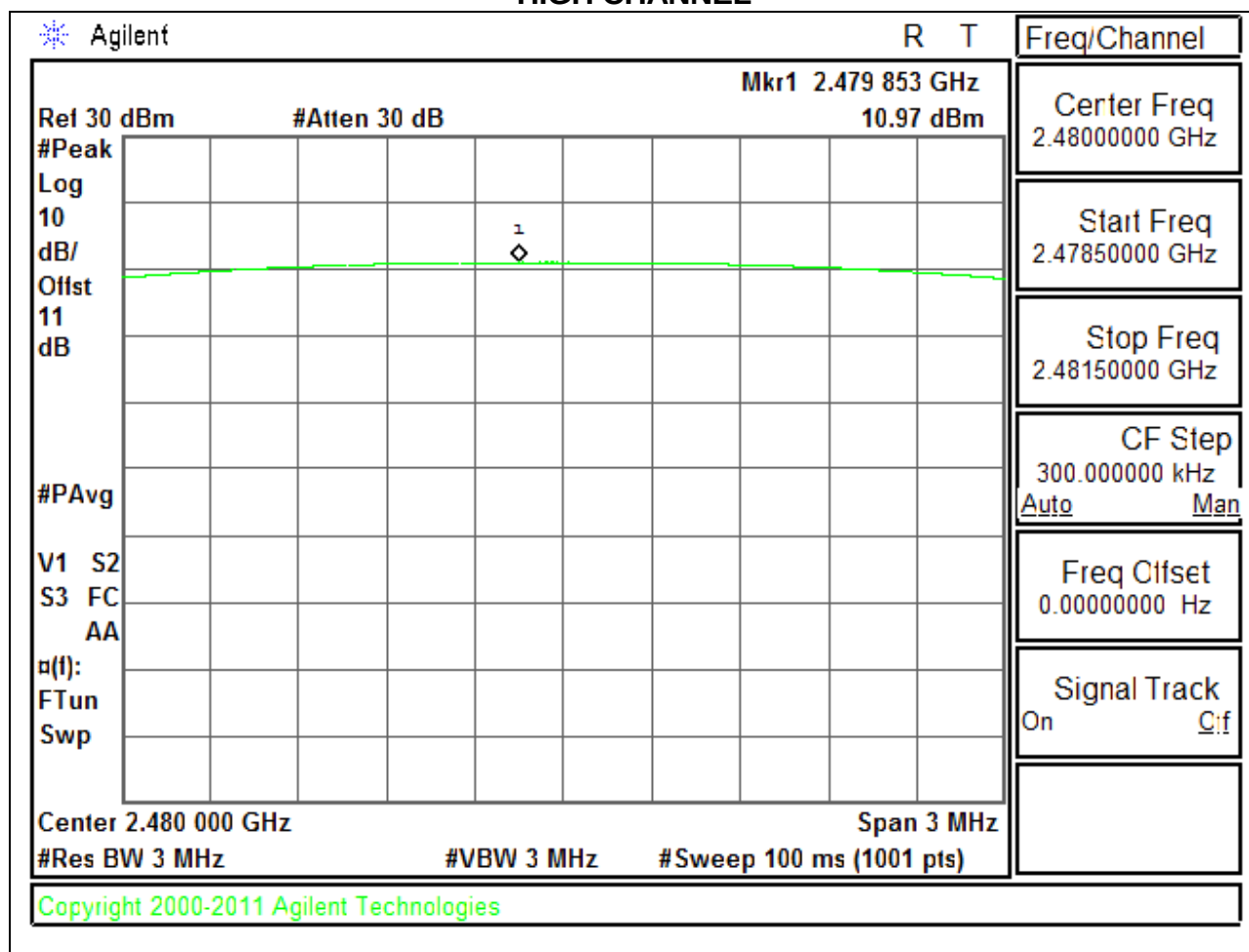
GFSK OUTPUT POWER



MID CHANNEL

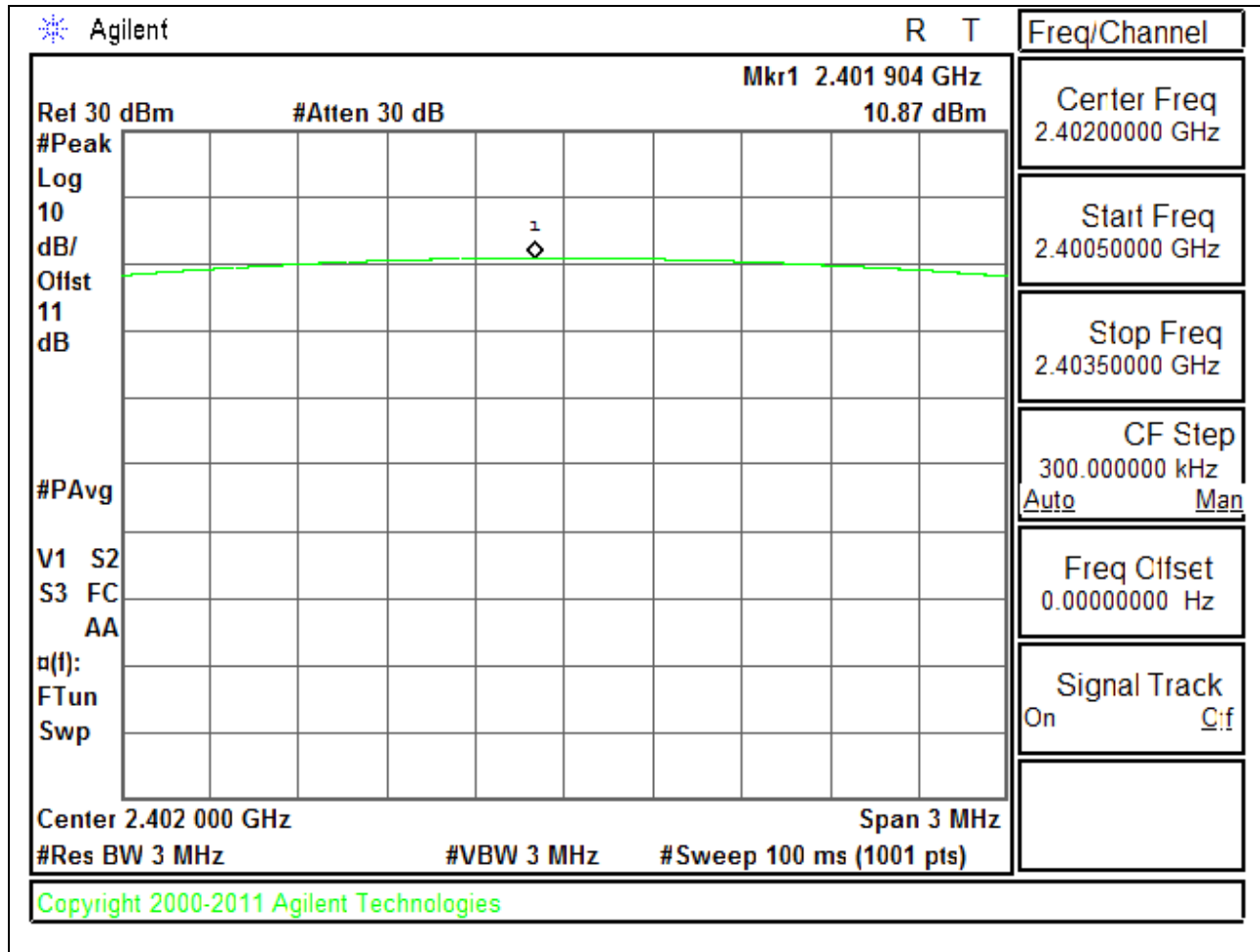


HIGH CHANNEL

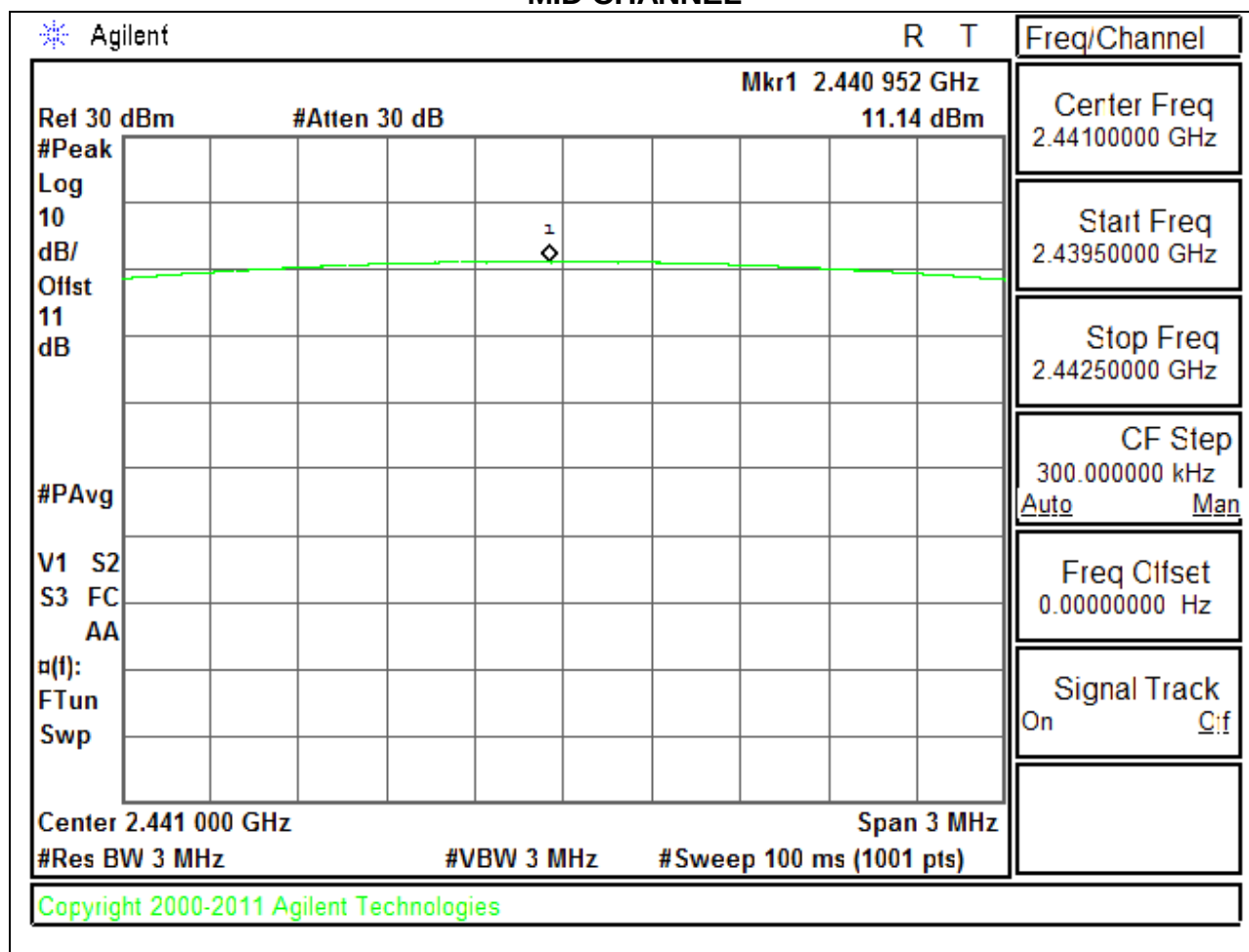


8PSK OUTPUT POWER

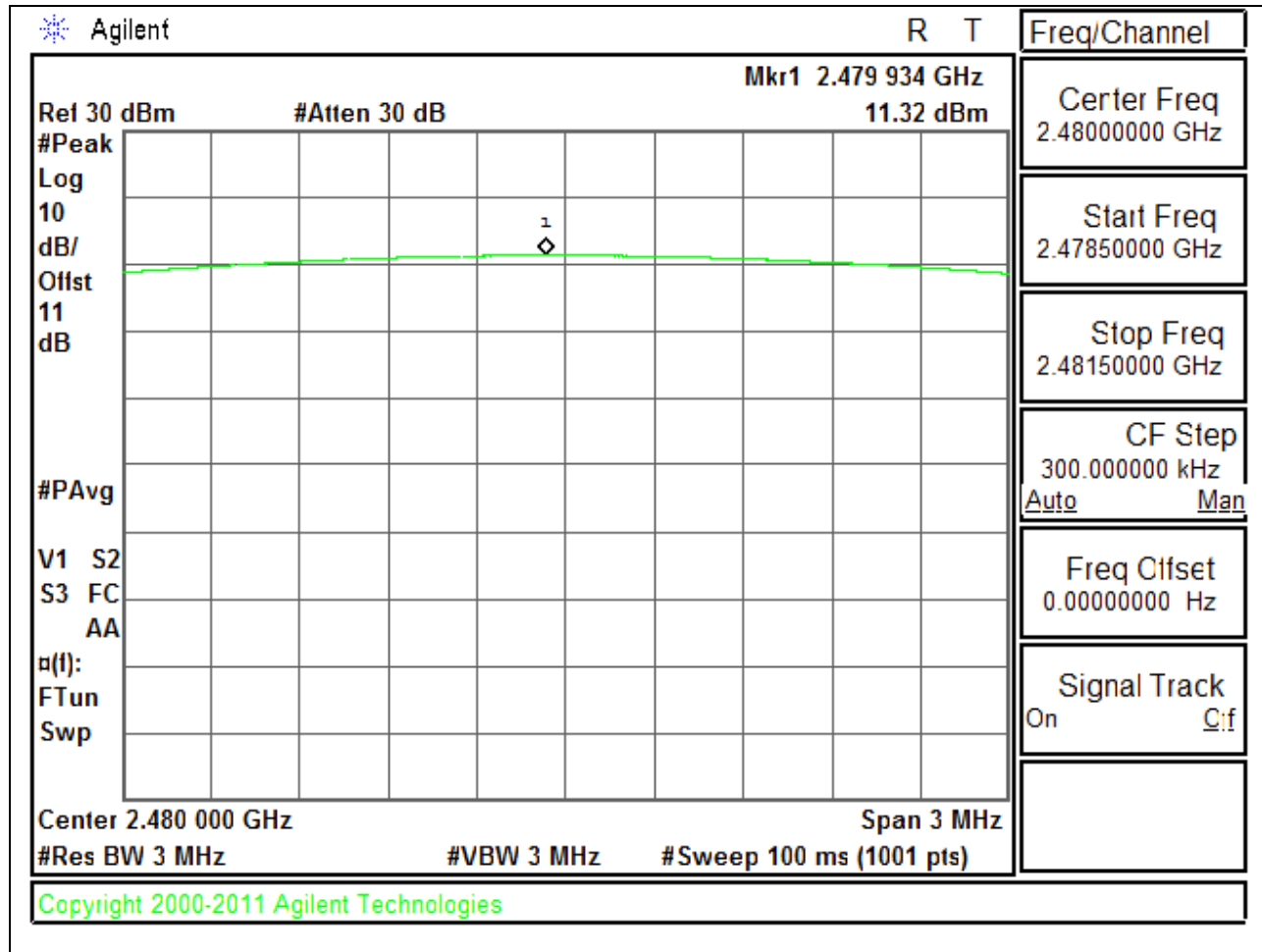
LOW CHANNEL



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.

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	9.3
Middle	2441	9.7
High	2480	10
Worst		10

8.6.2. DATA RATE PI/4-DQPSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	7.10
Middle	2441	7.50
High	2480	7.80
Worst		7.80

8.6.3. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	7.1
Middle	2441	7.5
High	2480	7.8
Worst		7.8

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.

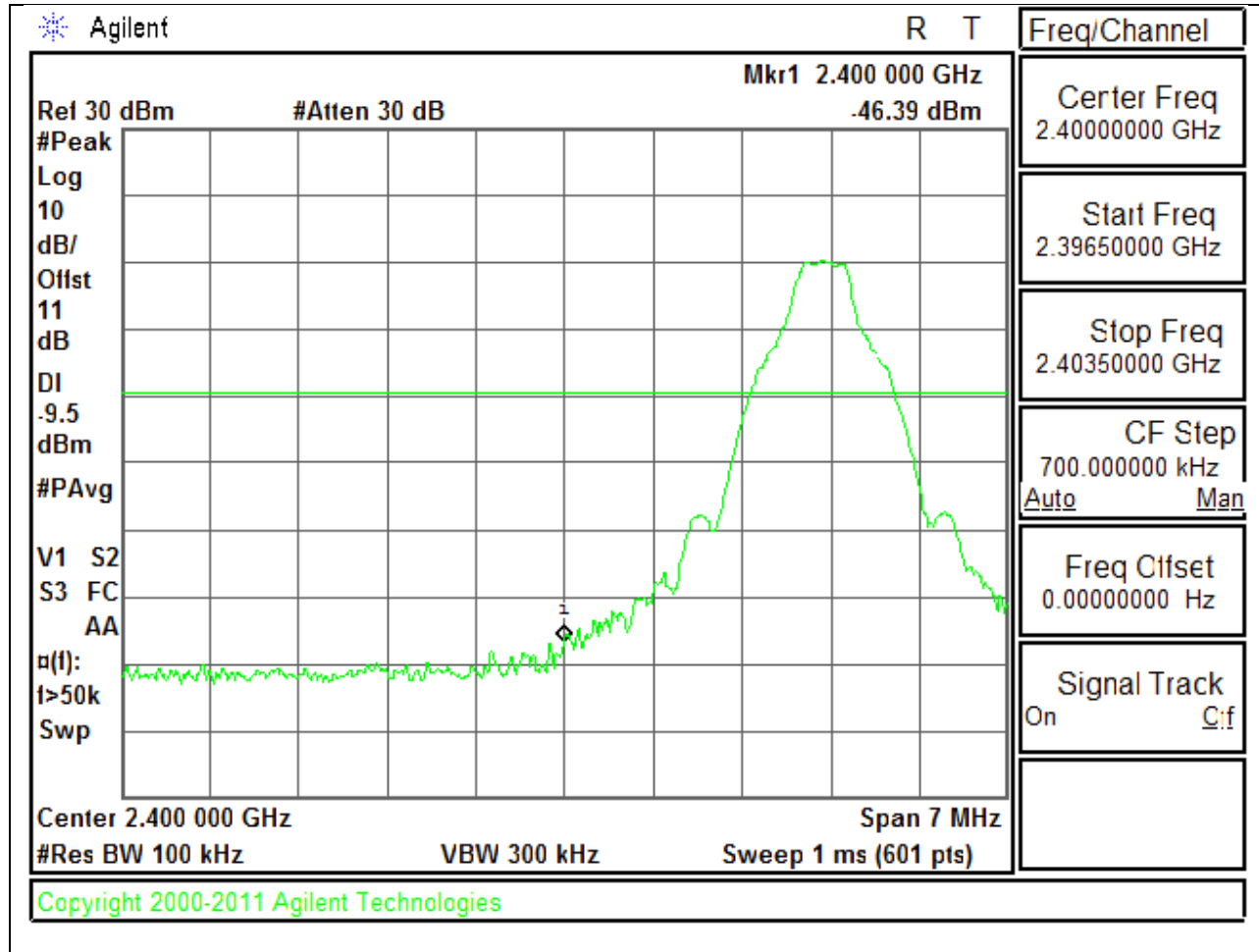
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

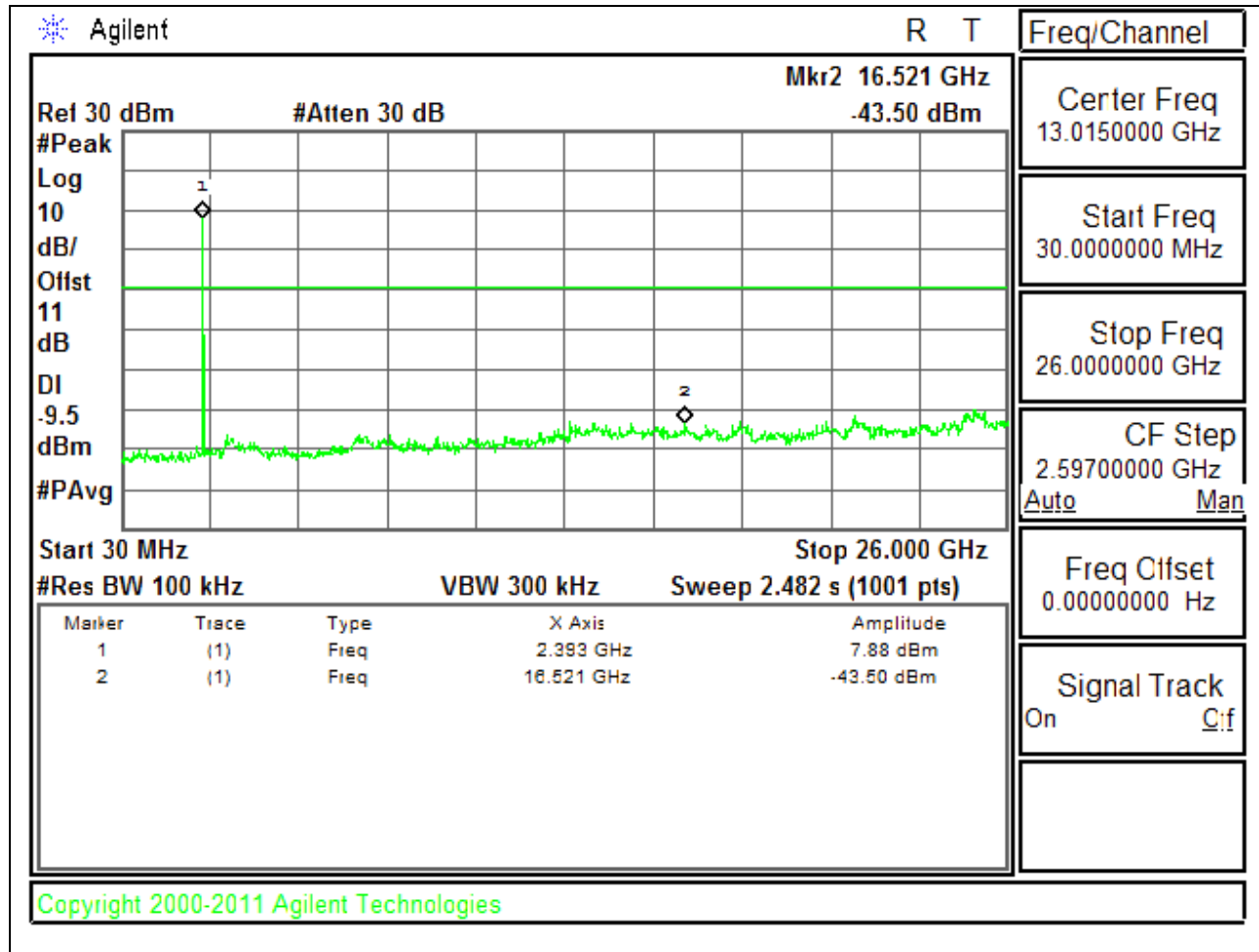
8.7.1. BASIC DATA RATE GFSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

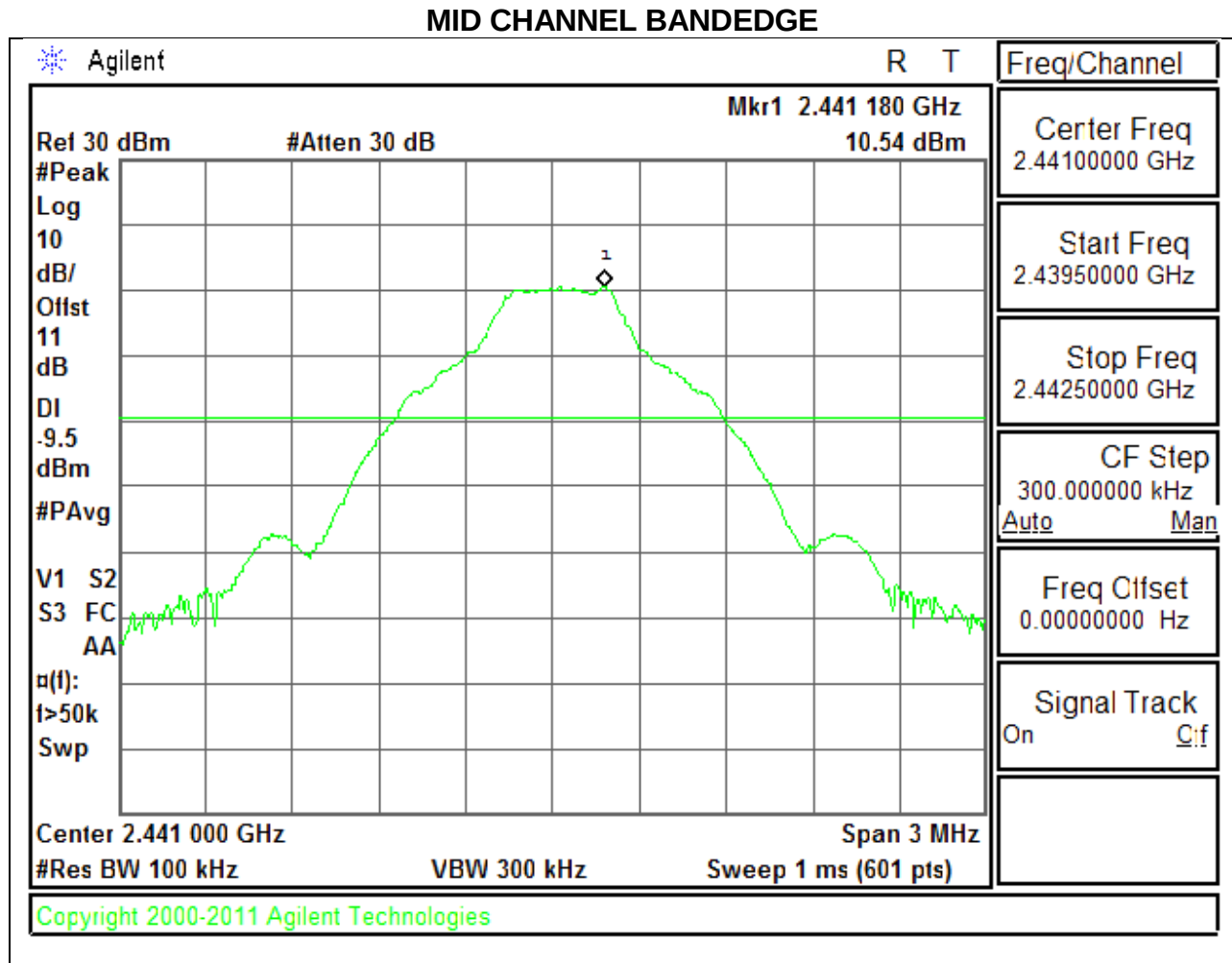
LOW CHANNEL BANDEDGE



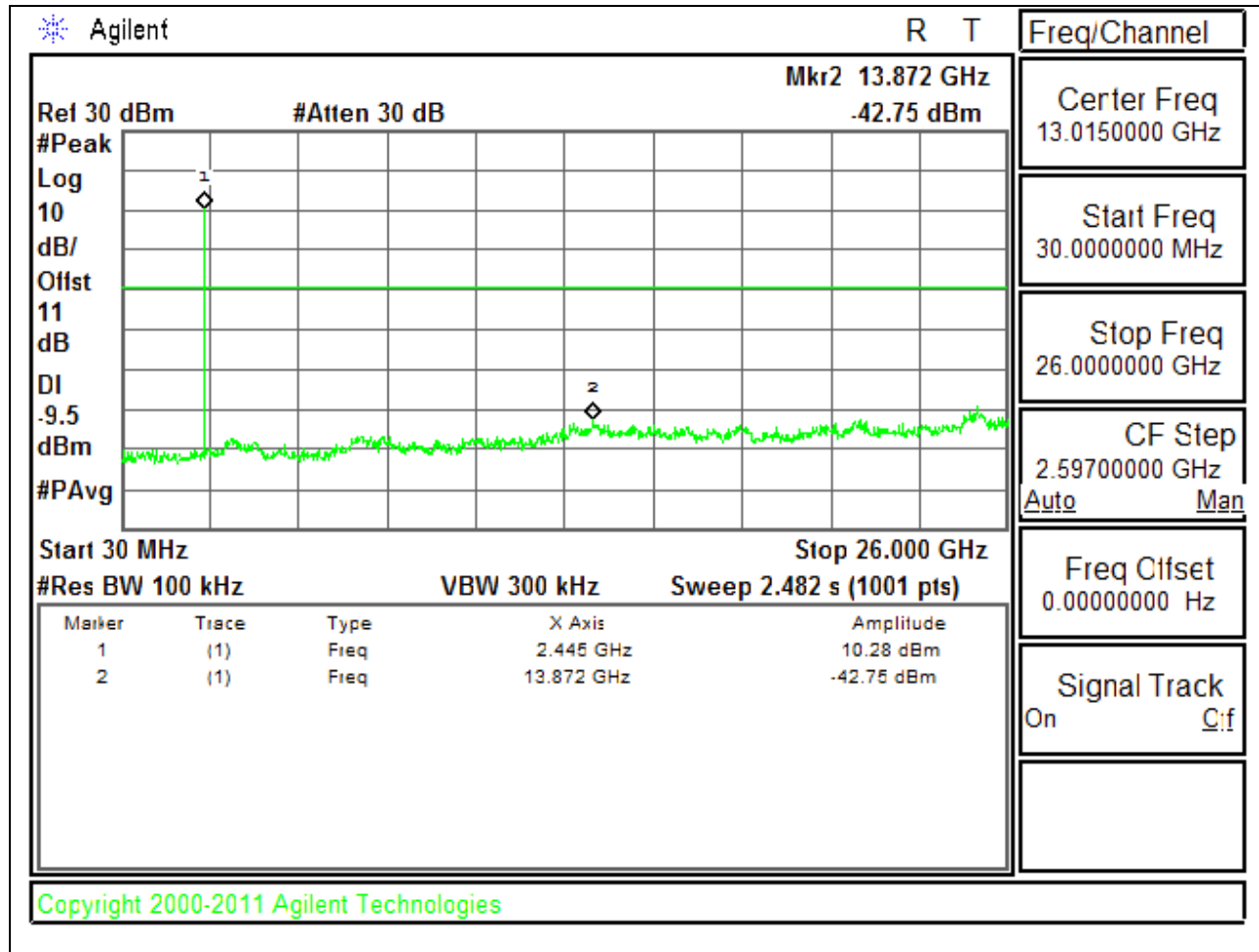
LOW CHANNEL SPURIOUS



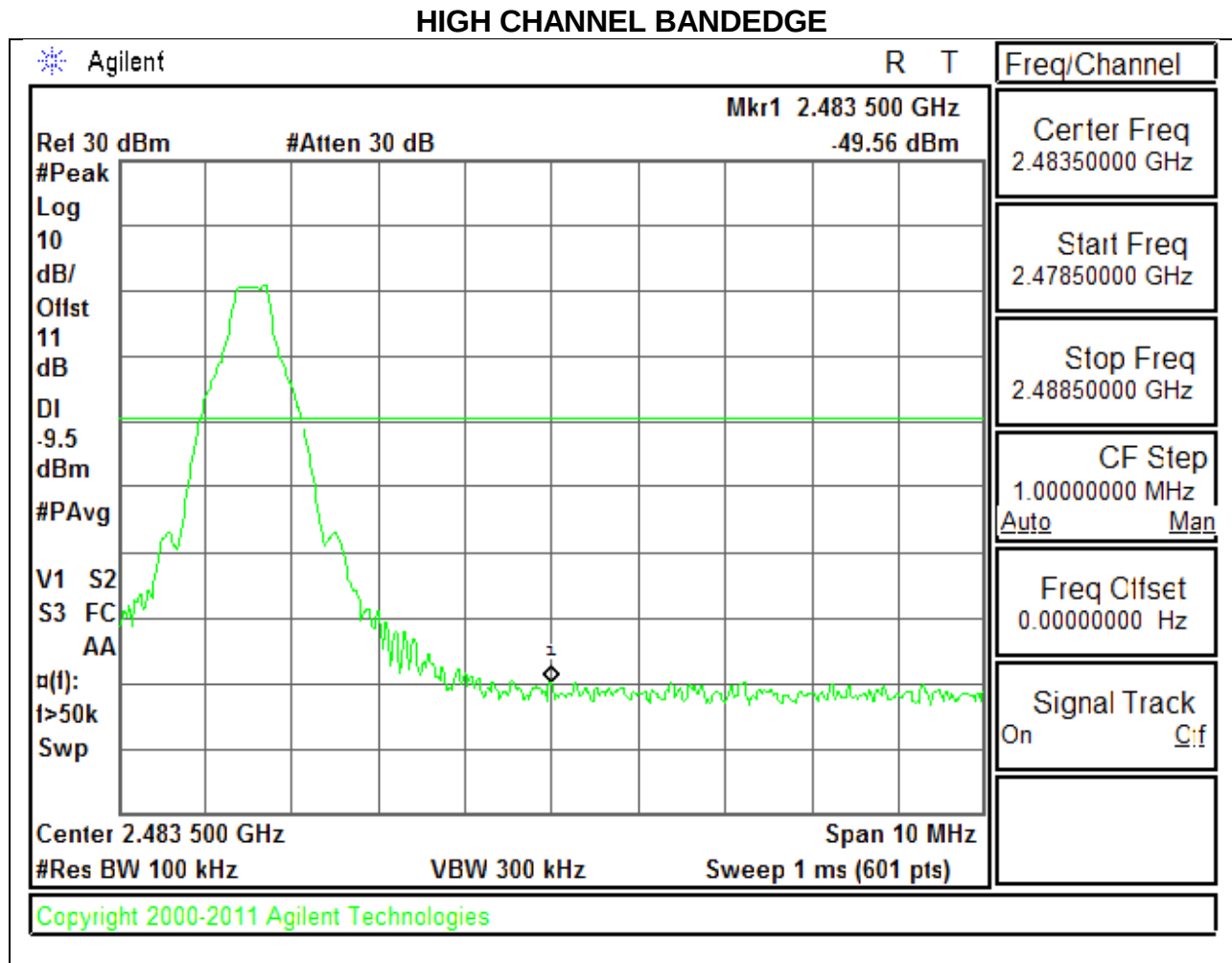
SPURIOUS EMISSIONS, MID CHANNEL



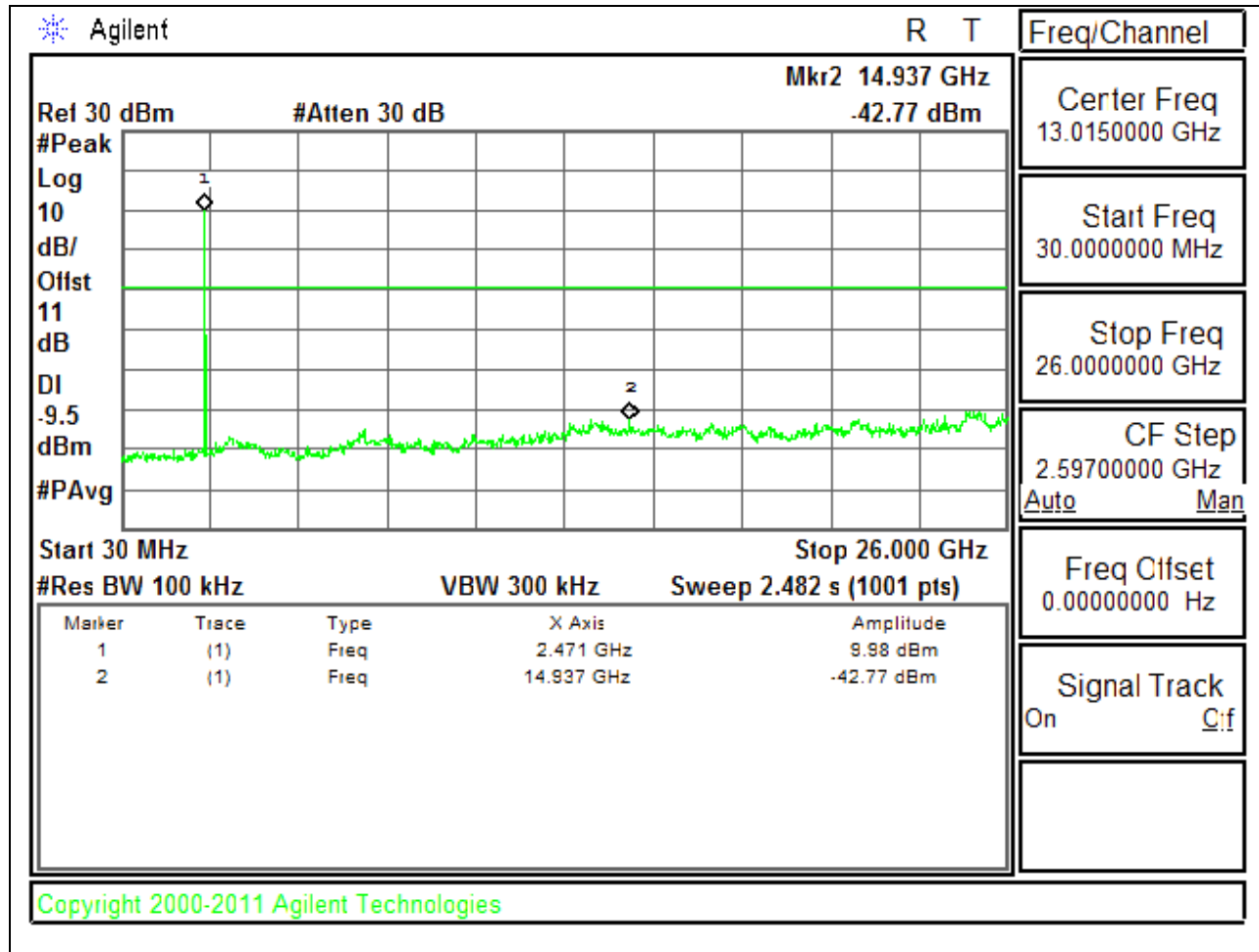
MID CHANNEL SPURIOUS



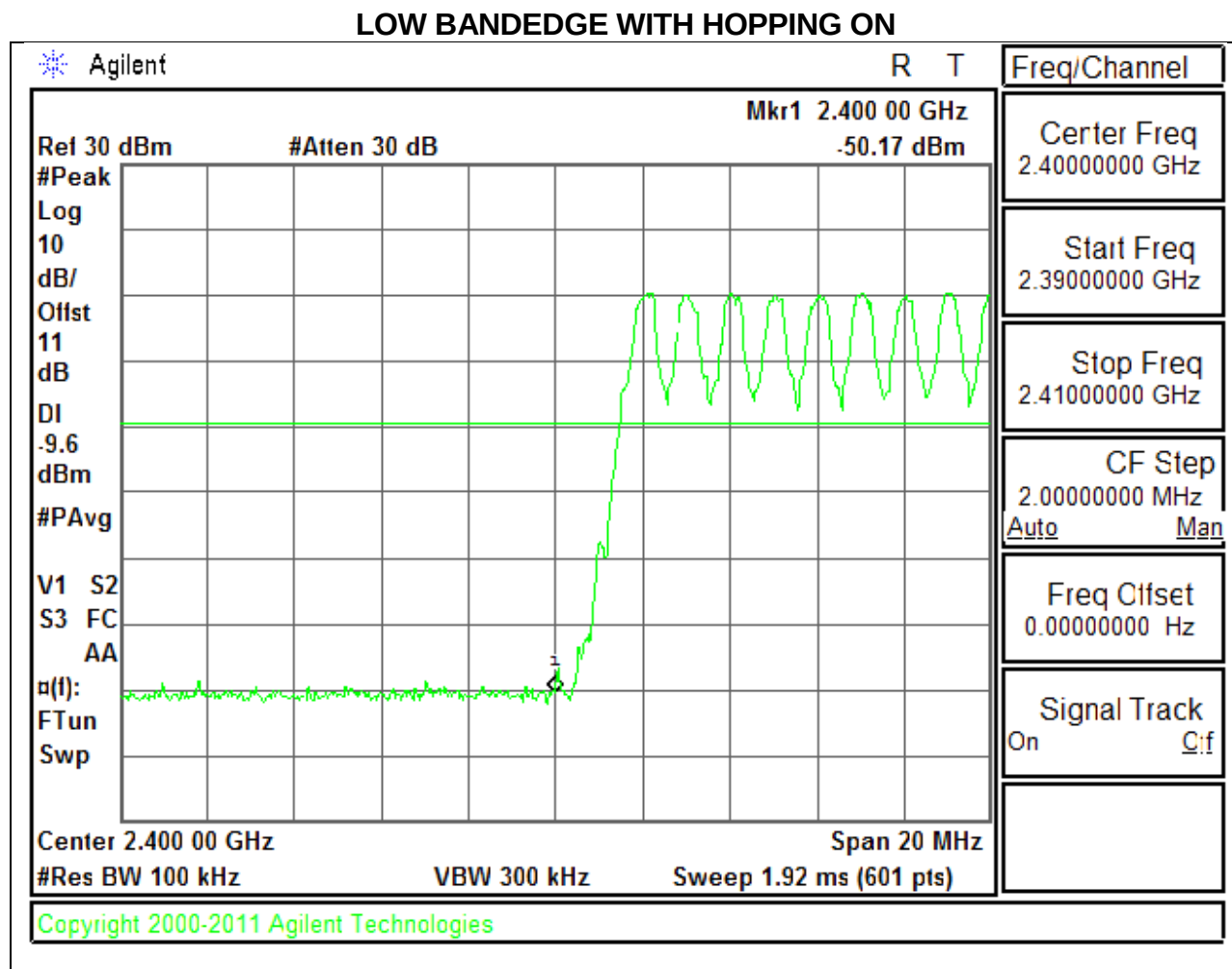
SPURIOUS EMISSIONS, HIGH CHANNEL



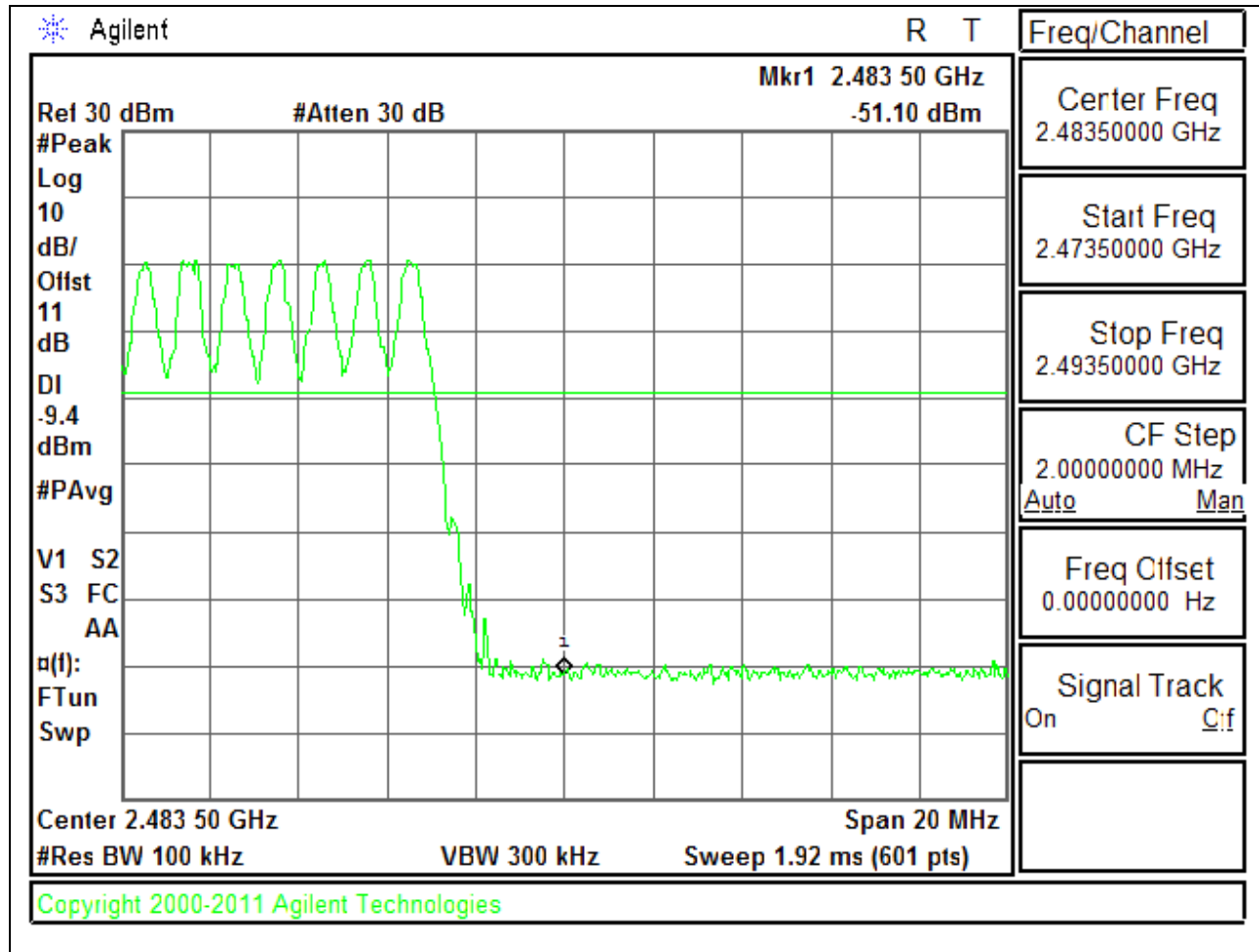
HIGH CHANNEL SPURIOUS



SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



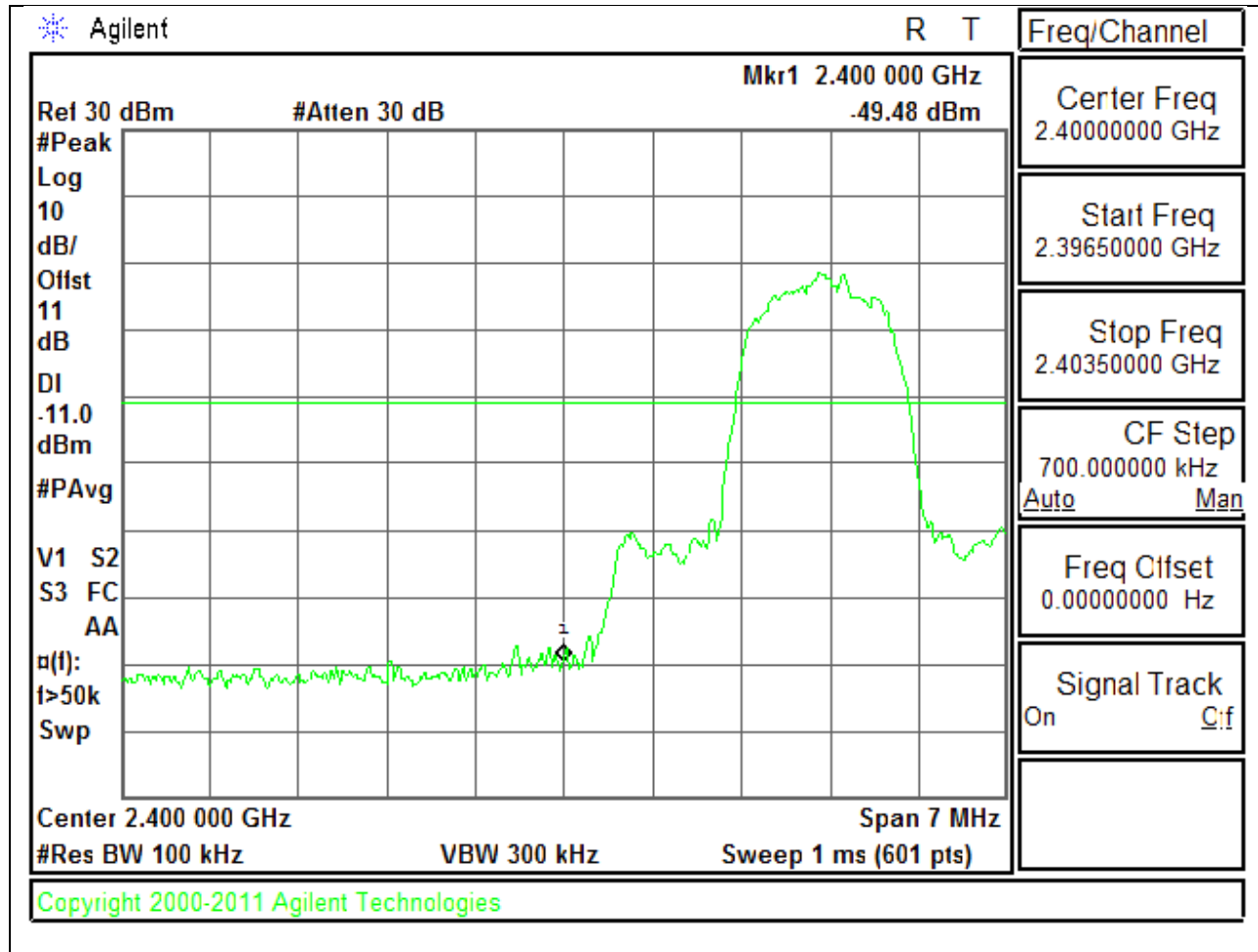
HIGH BANDEDGE WITH HOPPING ON



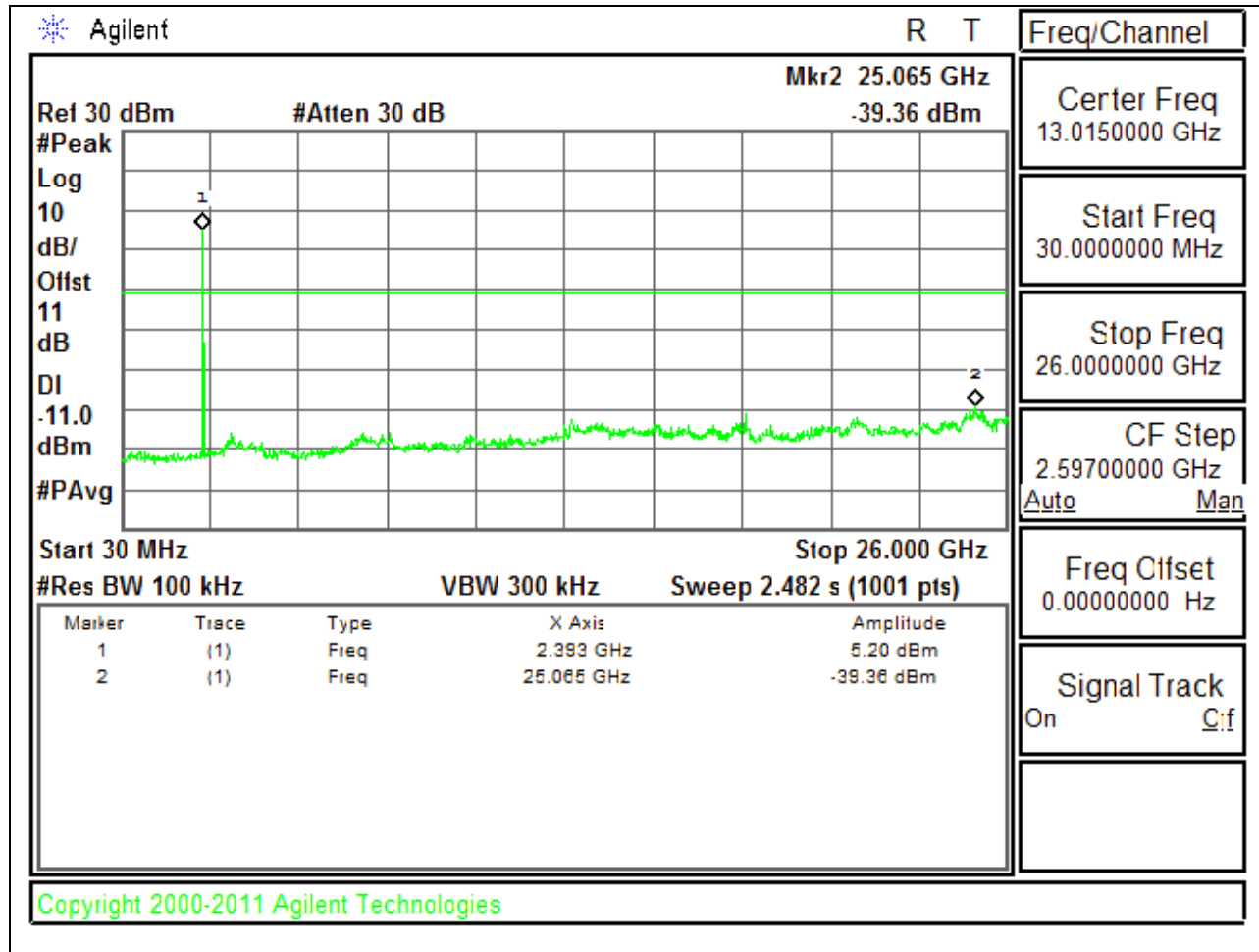
ENHANCED DATA RATE 8PSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

LOW CHANNEL BANDEDGE

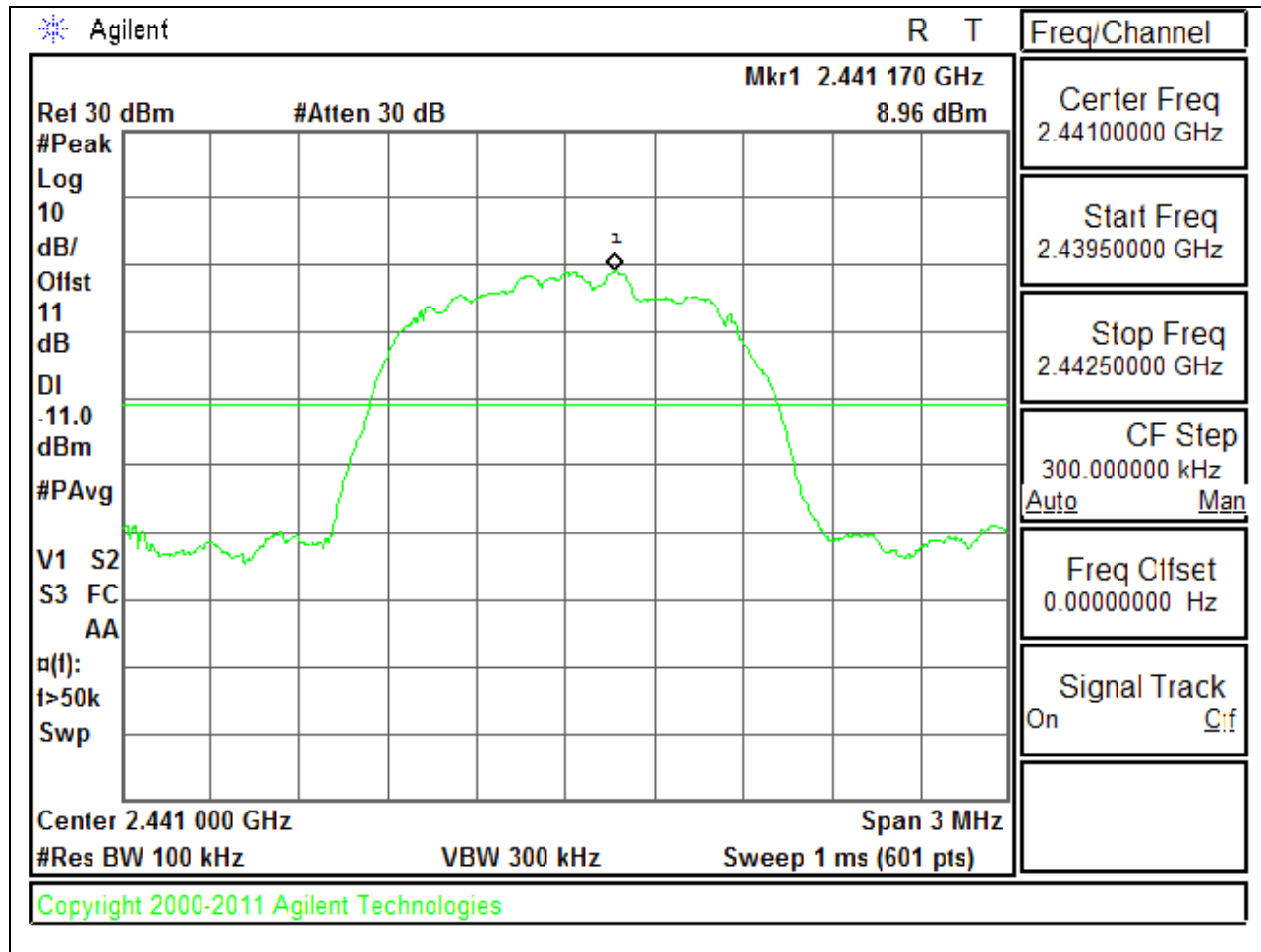


LOW CHANNEL SPURIOUS

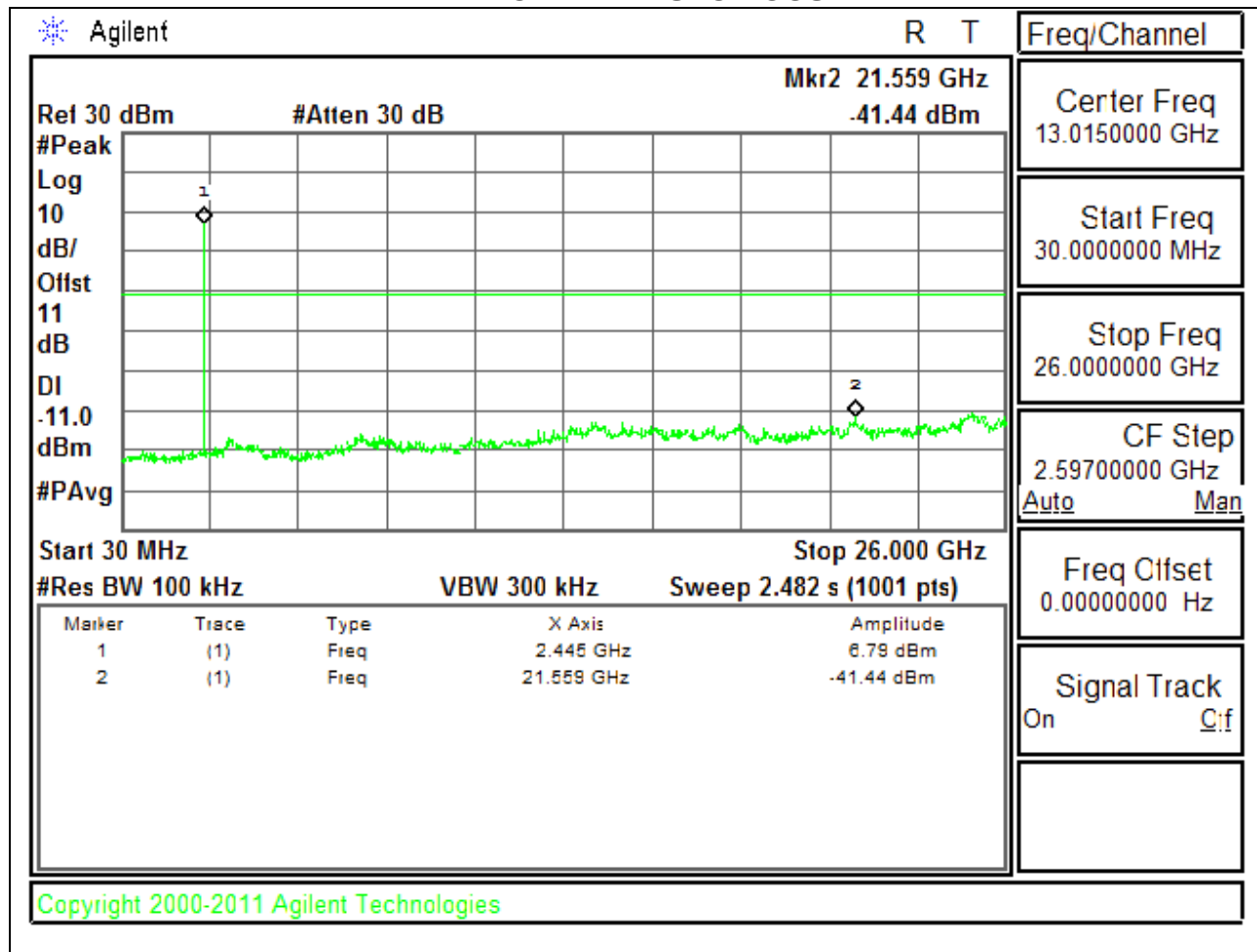


SPURIOUS EMISSIONS, MID CHANNEL

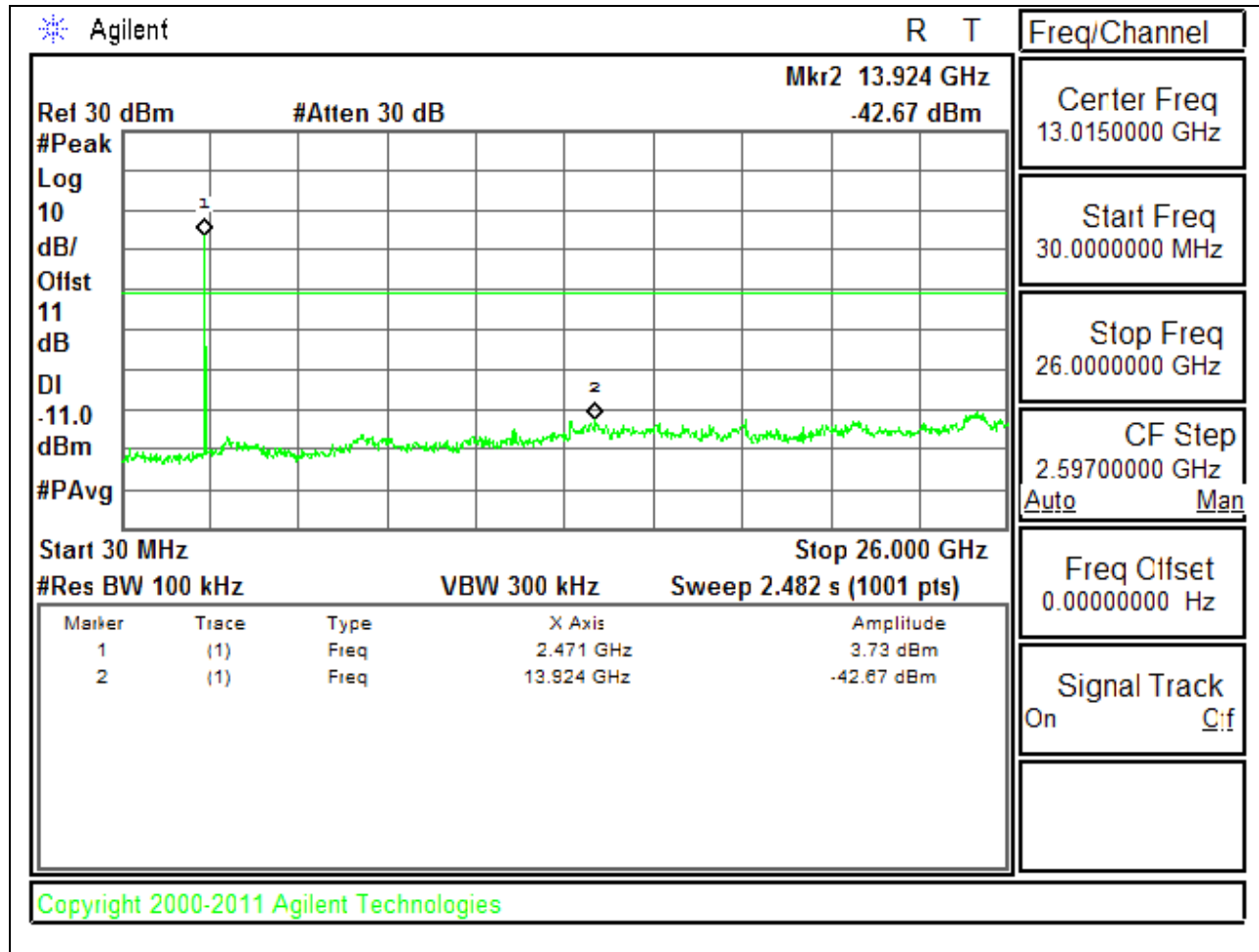
MID CHANNEL BANDEDGE



MID CHANNEL SPURIOUS

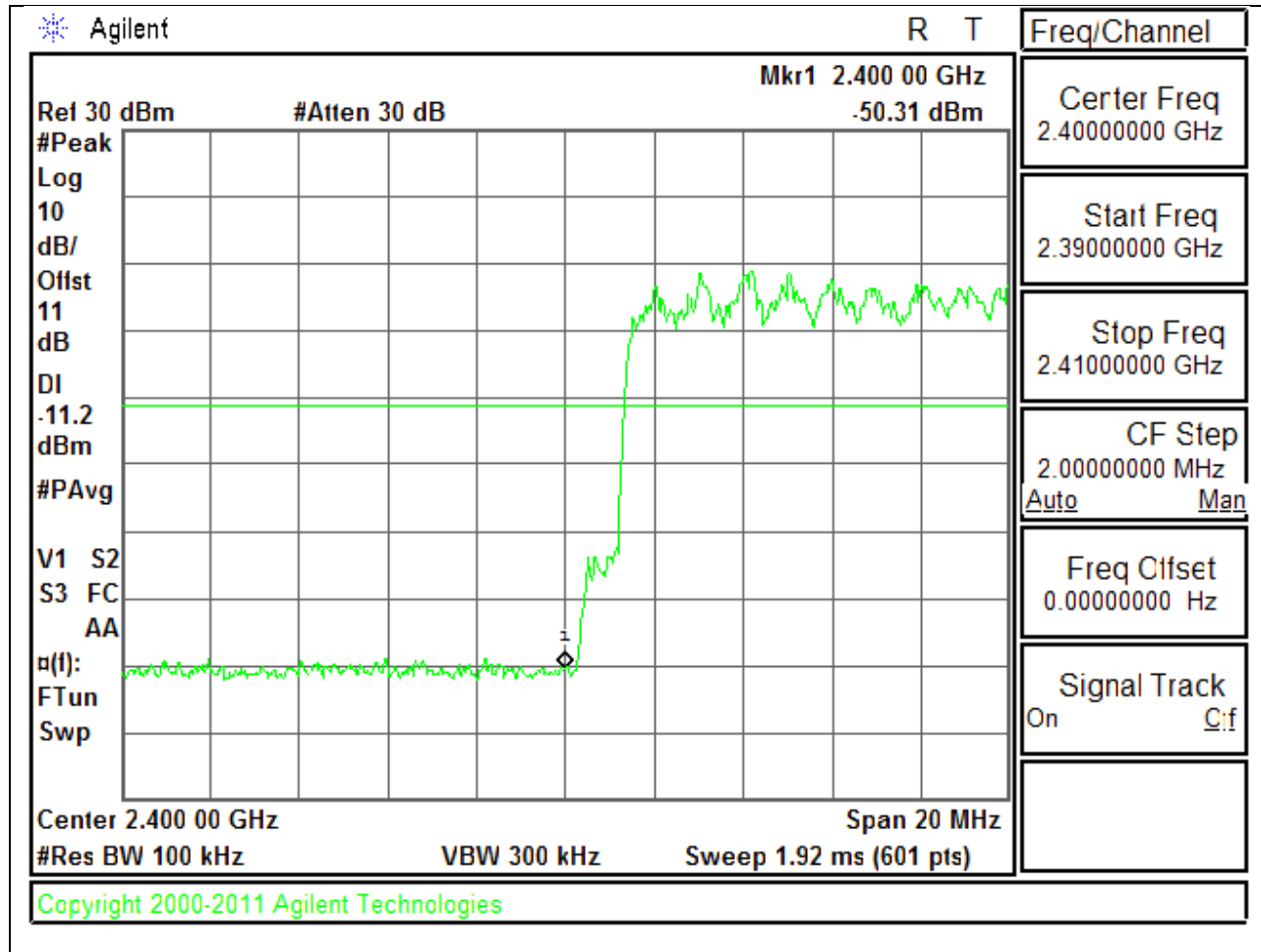


HIGH CHANNEL SPURIOUS

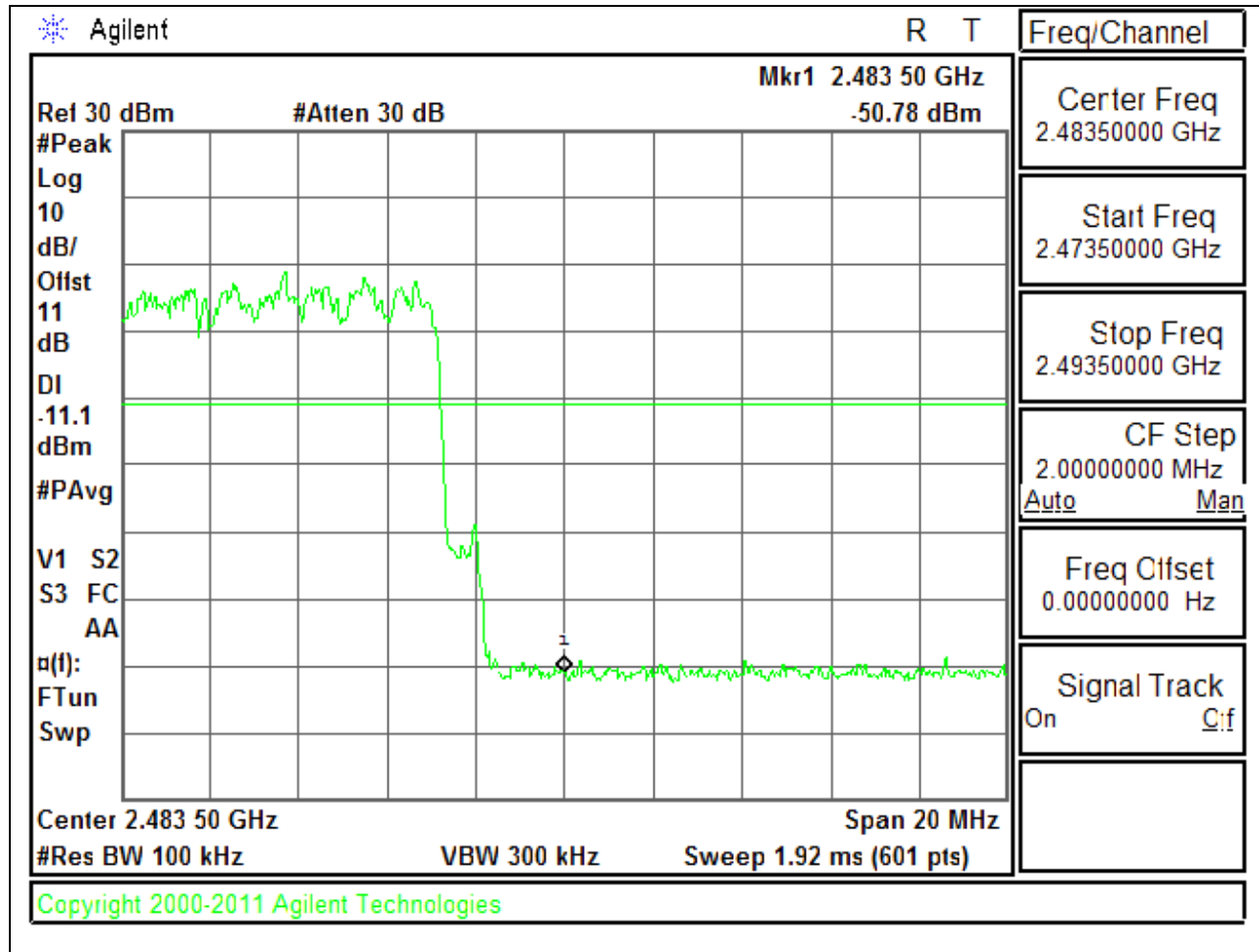


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

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-GEN Clause 8.9 (Transmitter)

IC RSS-GEN Clause 7 (Receiver)

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) 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.

$$\text{GFSK} = 1/T = 1 / 0.0028\text{S} = 352\text{Hz}.$$

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.

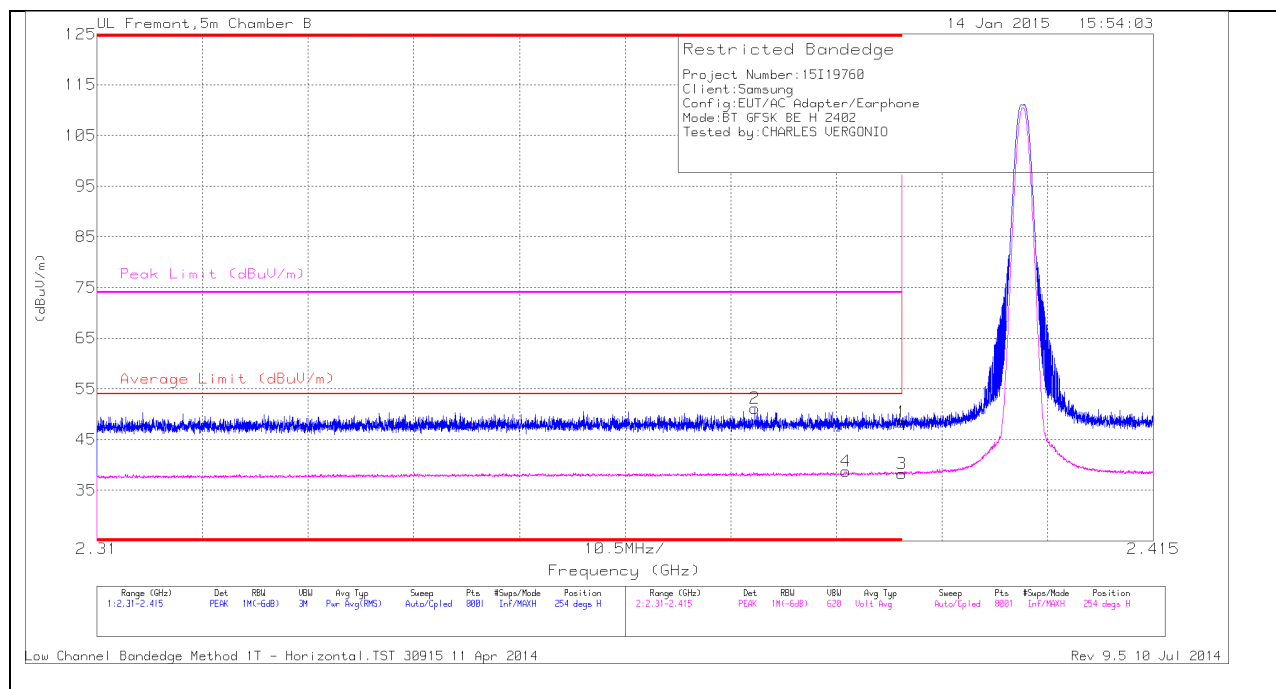
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

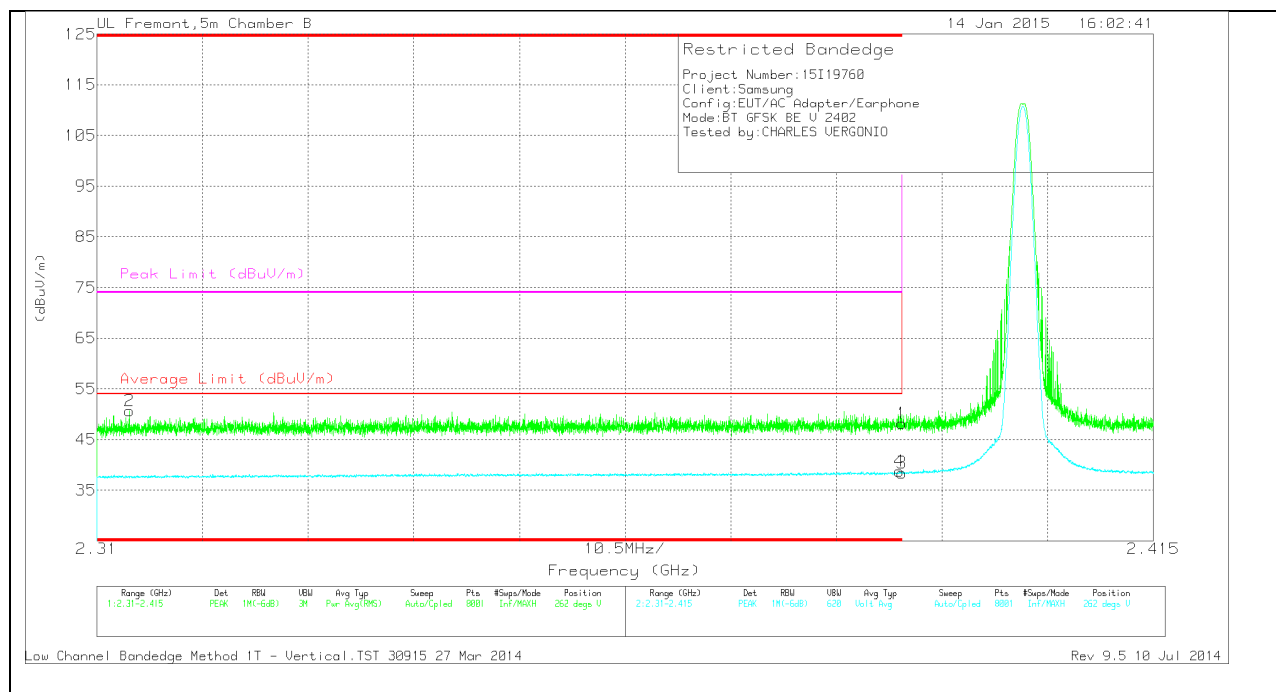
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.375	41.95	PK	32	-22.8	51.15	-	-	74	-22.85	254	241	H
4	* 2.384	29.32	VB1T	32.1	-22.7	38.72	54	-15.28	-	-	254	241	H
1	* 2.39	39.01	PK	32.1	-22.7	48.41	-	-	74	-25.59	254	241	H
3	* 2.39	28.85	VB1T	32.1	-22.7	38.25	54	-15.75	-	-	254	241	H

VERTICAL PEAK AND AVERAGE PLOT

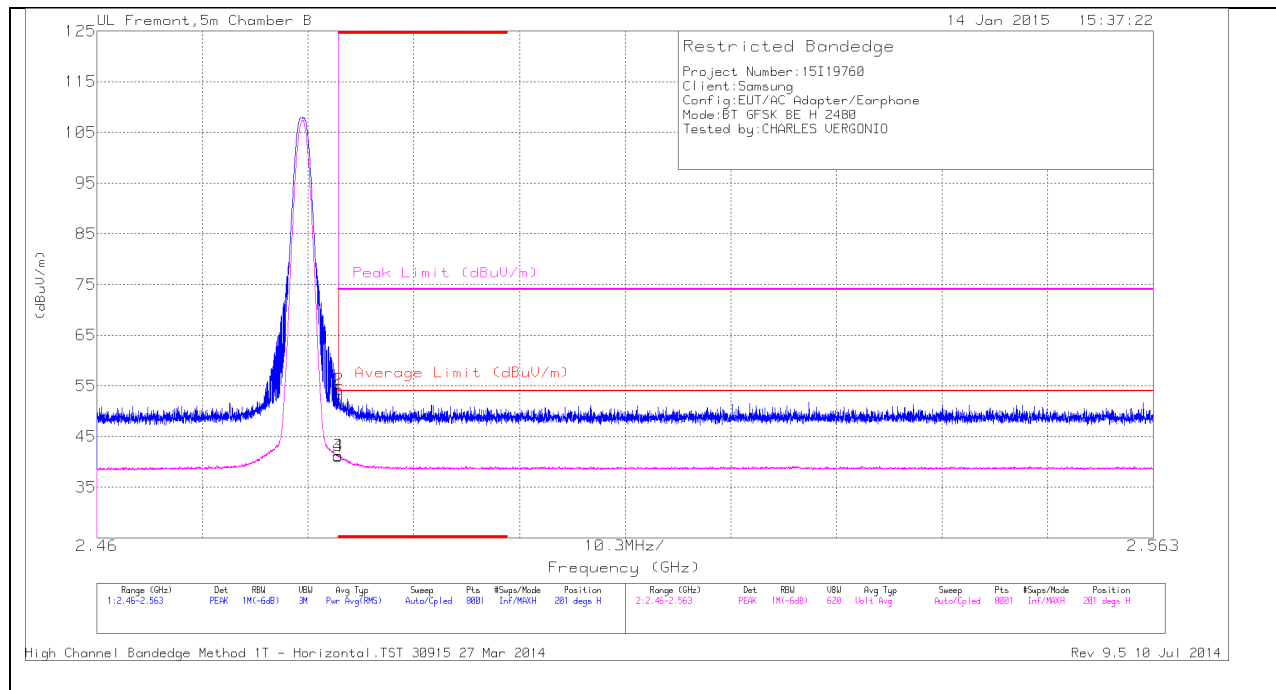


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.313	41.83	PK	31.7	-22.9	50.63	-	-	74	-23.37	262	297	V
1	* 2.39	38.77	PK	32.1	-22.7	48.17	-	-	74	-25.83	262	297	V
3	* 2.39	29.03	VB1T	32.1	-22.7	38.43	54	-15.57	-	-	262	297	V
4	* 2.39	29.31	VB1T	32.1	-22.7	38.71	54	-15.29	-	-	262	297	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

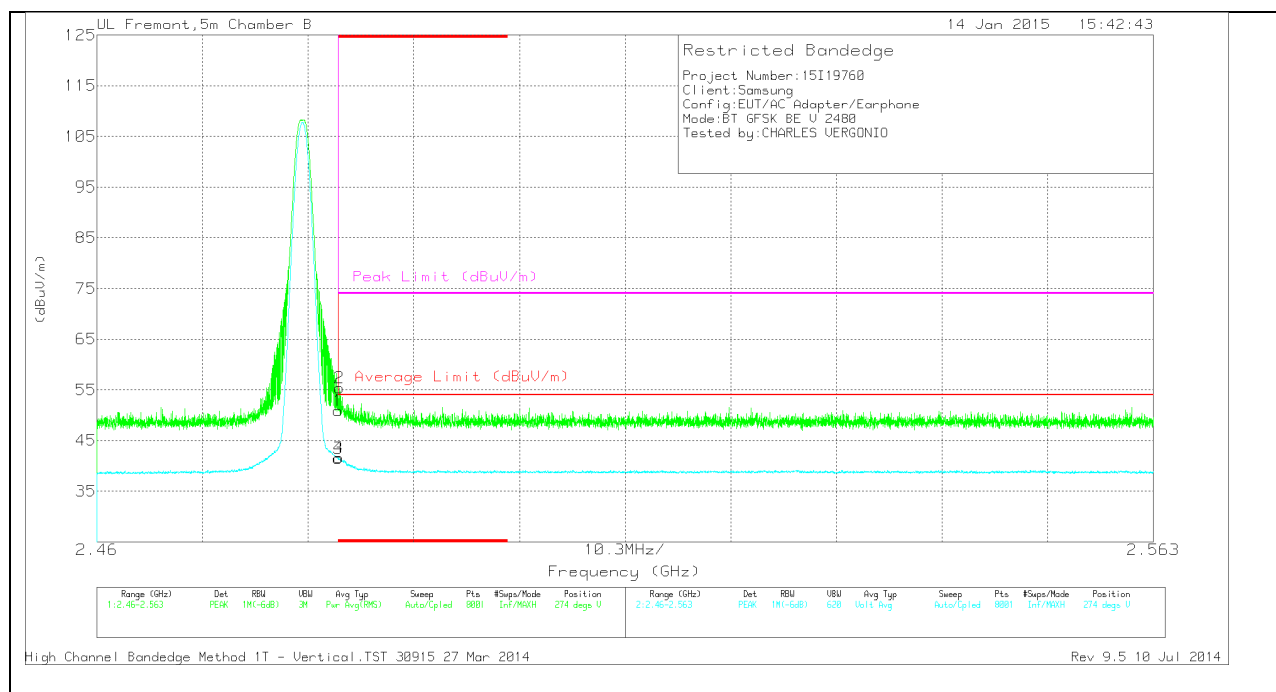
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 2.484	42.3	PK	32.4	-22.6	52.1	-	-	74	-21.9	201	143	H
2	* 2.484	44.51	PK	32.4	-22.6	54.31	-	-	74	-19.69	201	143	H
3	* 2.484	31.46	VB1T	32.4	-22.6	41.26	54	-12.74	-	-	201	143	H
4	* 2.484	31.32	VB1T	32.4	-22.6	41.12	54	-12.88	-	-	201	143	H

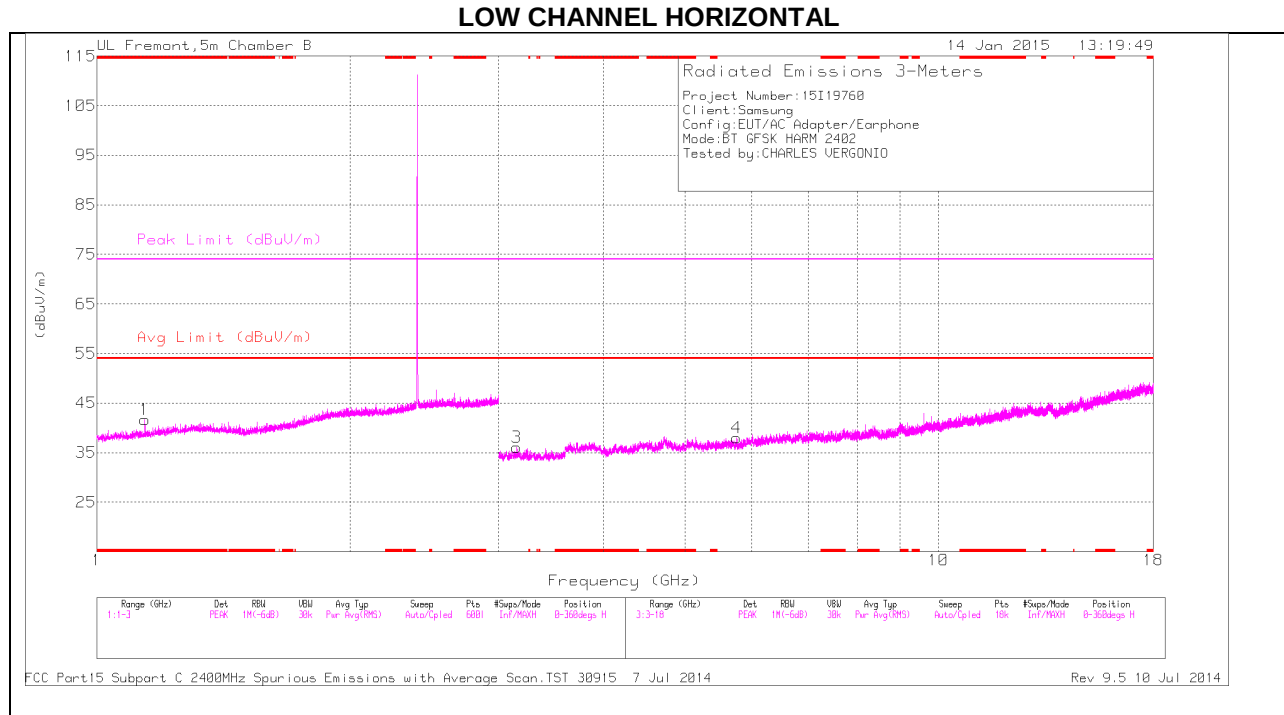
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

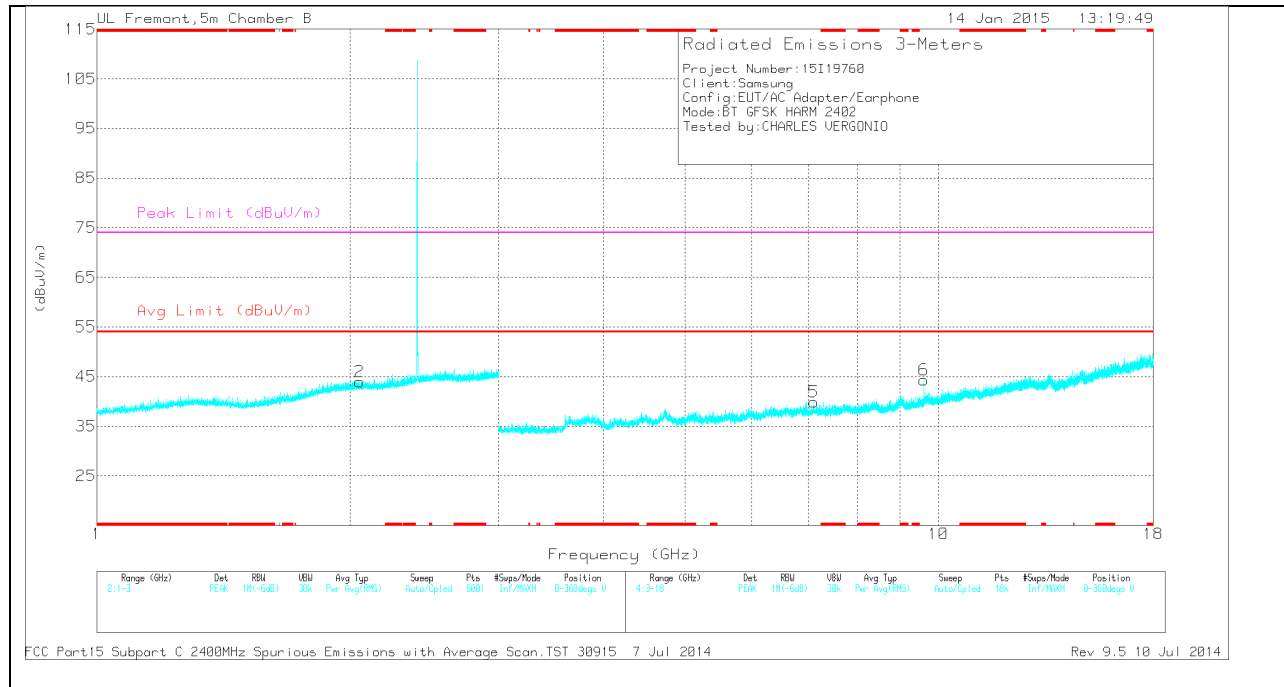
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.15	PK	32.4	-22.6	50.95	-	-	74	-23.05	274	284	V
2	* 2.484	45.61	PK	32.4	-22.6	55.41	-	-	74	-18.59	274	284	V
3	* 2.484	31.62	VB1T	32.4	-22.6	41.42	54	-12.58	-	-	274	284	V
4	* 2.484	31.76	VB1T	32.4	-22.6	41.56	54	-12.44	-	-	274	284	V

HARMONICS AND SPURIOUS EMISSIONS



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 T345 (dB/m)	Amp/Cbl/Filtr/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	* 1.14	38.51	PK	27.7	-24.5	41.71	-	-	74	-32.29	0-360	199	H
2	2.053	35.88	PK	31.3	-23.2	43.98	-	-	-	-	0-360	199	V
3	3.153	34.44	PK	32.8	-31.2	36.04	-	-	-	-	0-360	200	H
4	5.76	33.21	PK	34.6	-29.8	38.01	-	-	-	-	0-360	200	H
5	7.111	31.53	PK	35.6	-27.2	39.93	-	-	-	-	0-360	101	V
6	9.608	32.03	PK	36.8	-24.5	44.33	-	-	-	-	0-360	200	V

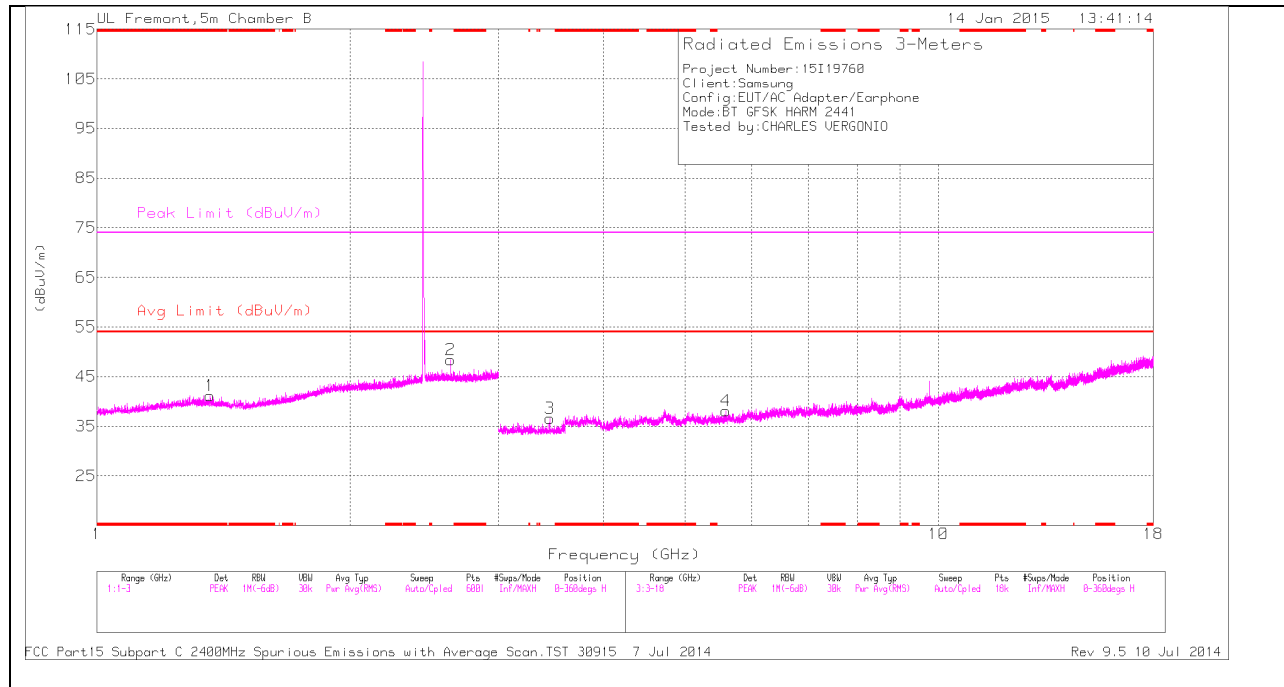
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.608	38.77	PK3	36.8	-24.5	51.07	-	-	-	-	140	274	V
9.608	29.74	VB1T	36.8	-24.5	42.04	-	-	-	-	140	274	V

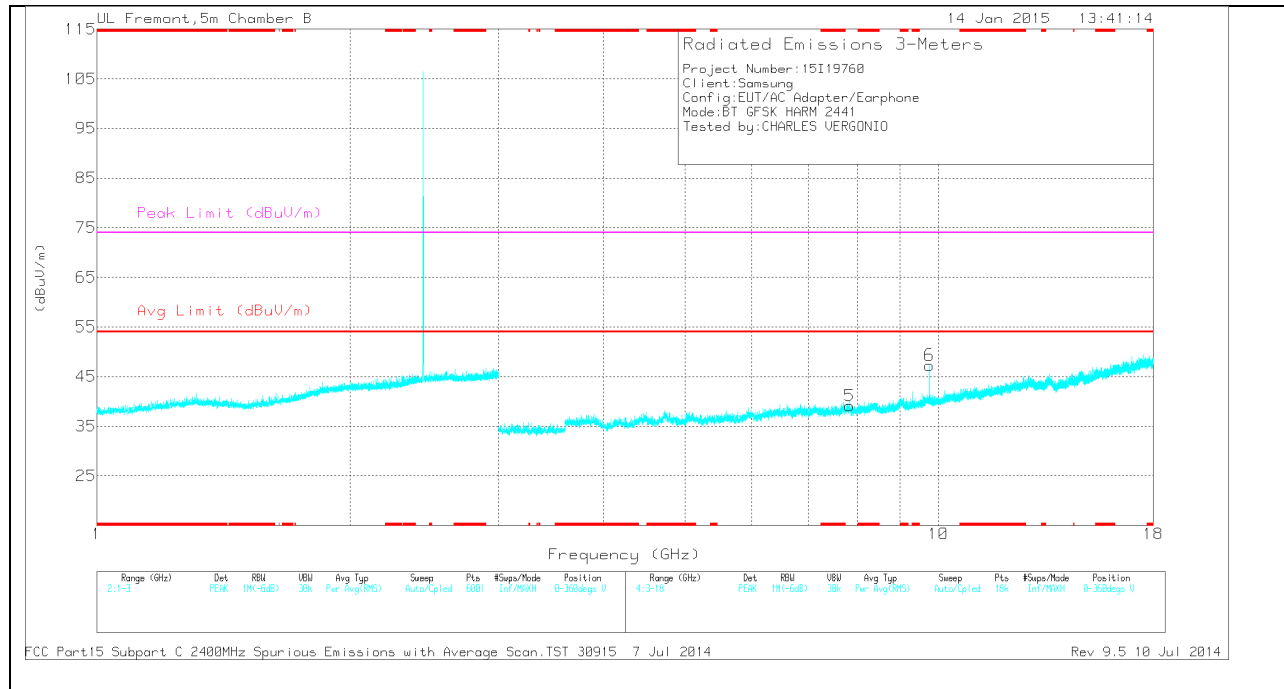
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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 T345 (dB/m)	Amp/Cbl/Filtr/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	* 1.362	36.83	PK	28.6	-24.3	41.13	-	-	74	-32.87	0-360	101	H
2	2.633	38.5	PK	32.4	-22.5	48.4	-	-	-	-	0-360	199	H
3	3.452	34.78	PK	32.8	-31	36.58	-	-	-	-	0-360	200	H
4	5.59	33.29	PK	34.4	-29.6	38.09	-	-	-	-	0-360	101	H
5	7.849	29.84	PK	35.7	-26.4	39.14	-	-	-	-	0-360	200	V
6	9.764	34.71	PK	36.9	-24.3	47.31	-	-	-	-	0-360	200	V

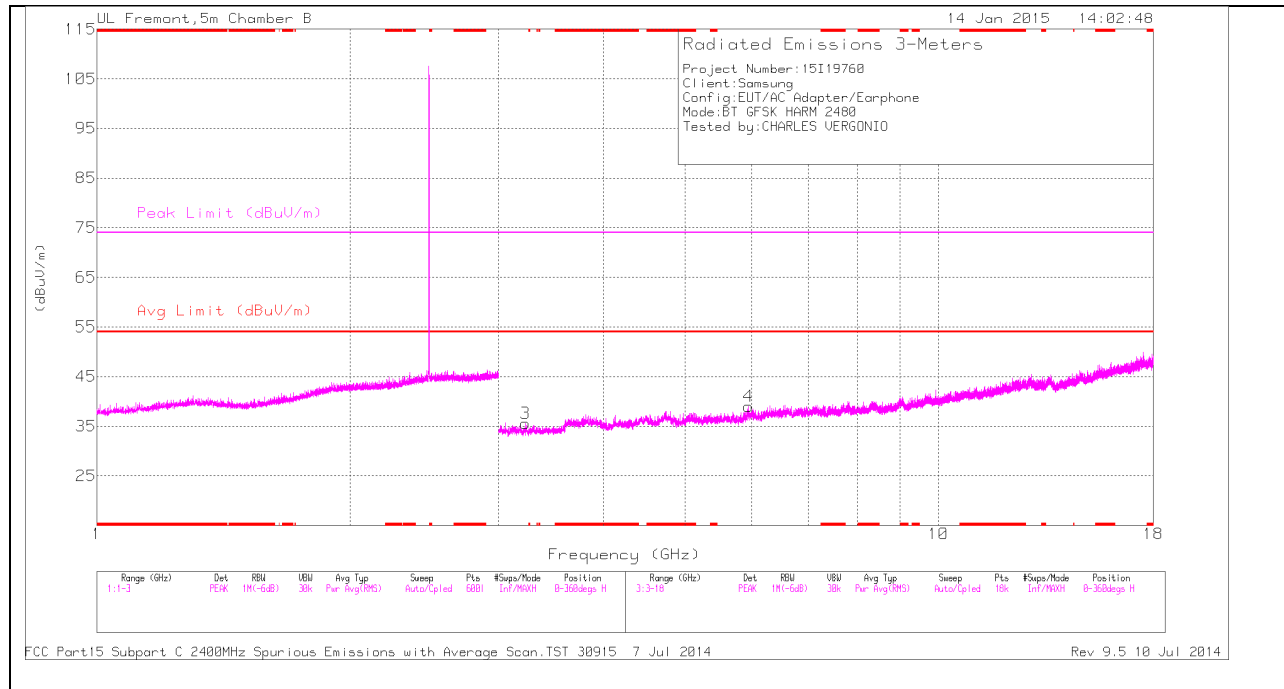
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.632	43.45	PK3	32.4	-22.5	53.35	-	-	-	-	175	249	H
2.633	30.95	VB1T	32.4	-22.5	40.85	-	-	-	-	175	249	H
9.764	40.98	PK3	36.9	-24.3	53.58	-	-	-	-	47	310	H
9.764	28.76	VB1T	36.9	-24.3	41.36	-	-	-	-	47	310	H

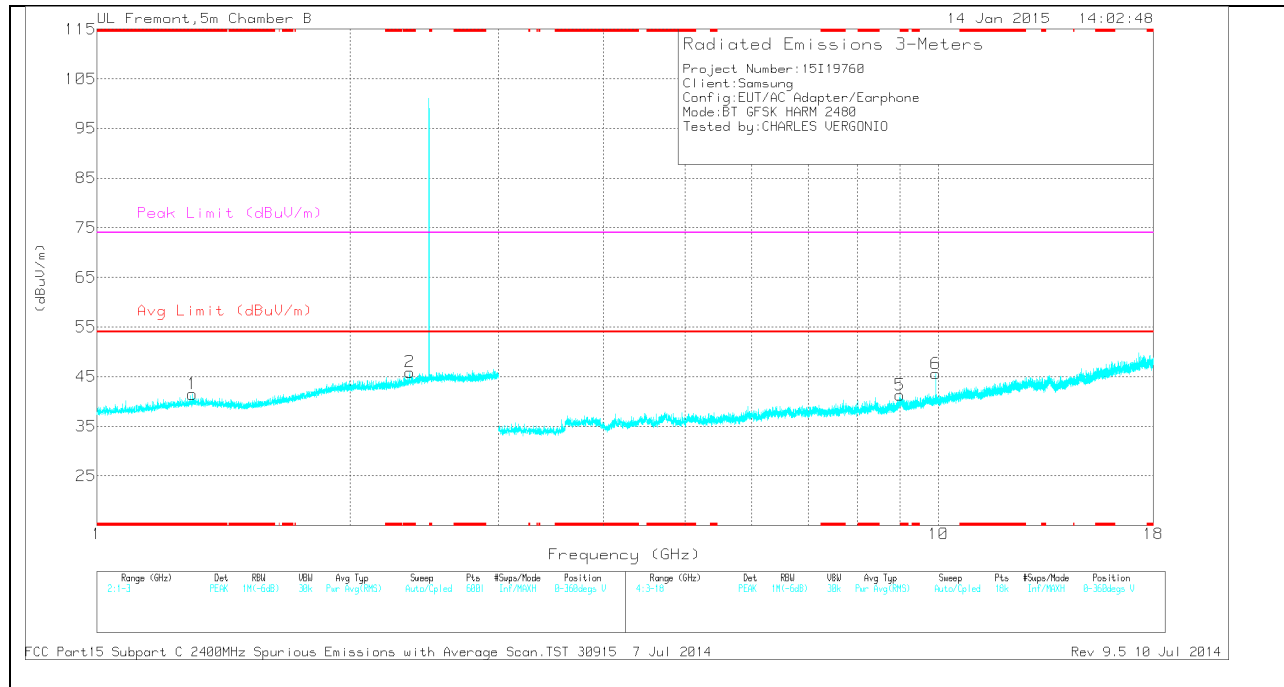
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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 T345 (dB/m)	Amp/Cbl/Filtr/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	* 1.299	36.88	PK	28.9	-24.3	41.48	-	-	74	-32.52	0-360	199	V
2	* 2.352	36.82	PK	31.9	-22.8	45.92	-	-	74	-28.08	0-360	199	V
5	* 9.004	29.54	PK	36.2	-24.5	41.24	-	-	74	-32.76	0-360	101	V
3	3.232	33.95	PK	32.8	-31.2	35.55	-	-	-	-	0-360	200	H
4	5.943	32.37	PK	35.1	-28.5	38.97	-	-	-	-	0-360	200	H
6	9.92	32.71	PK	37	-24.1	45.61	-	-	-	-	0-360	200	V

PK - Peak detector

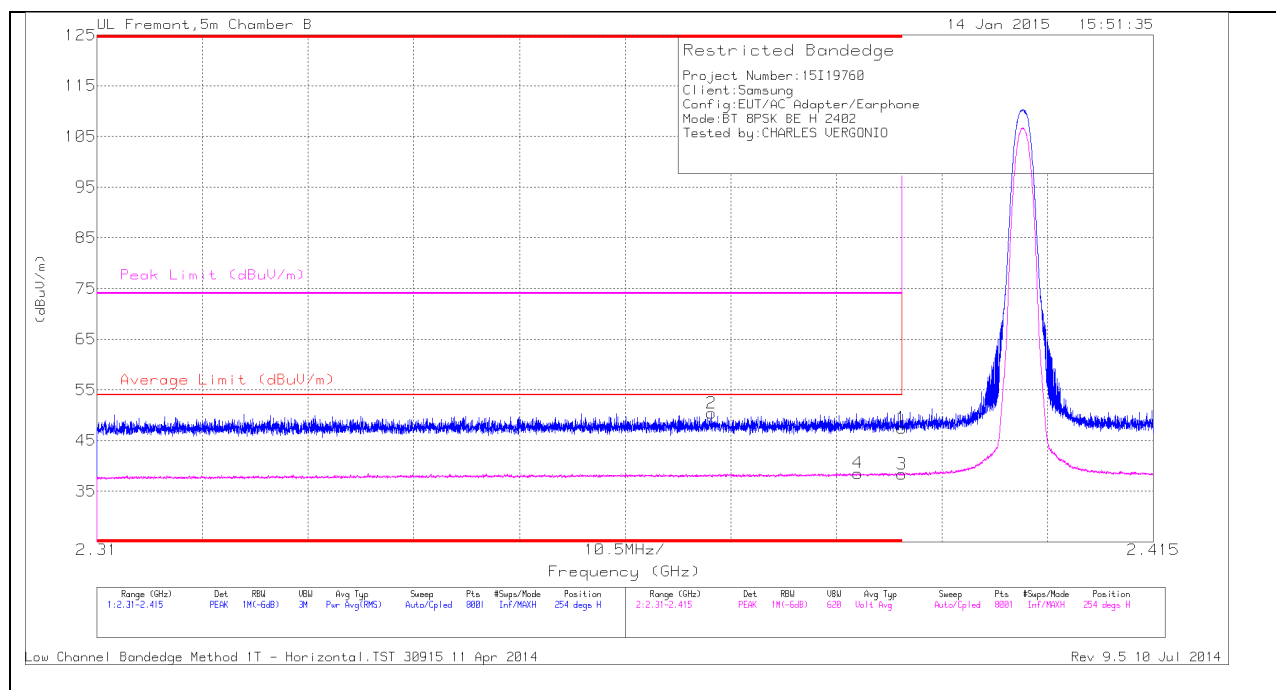
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.92	36.43	PK3	37	-24.1	49.33	-	-	-	-	1	200	V
9.92	24.07	VB1T	37	-24.1	36.97	-	-	-	-	1	200	V

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

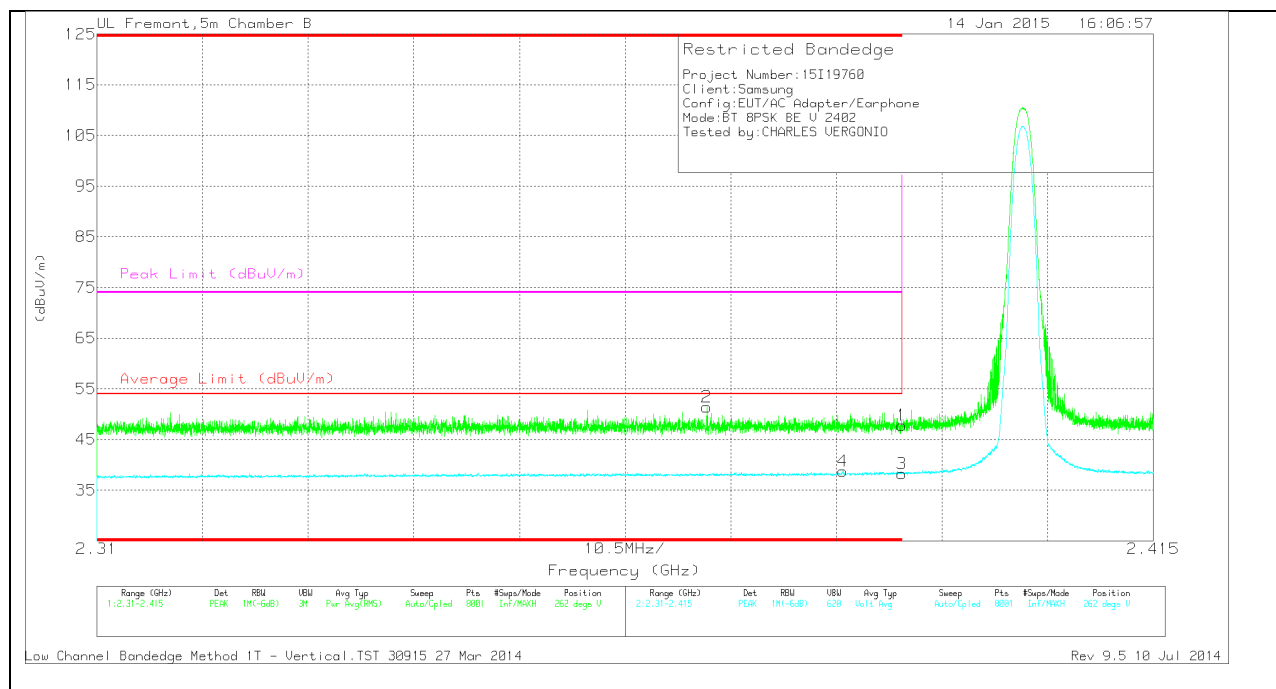
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.371	41.26	PK	32	-22.8	50.46	-	-	74	-23.54	254	241	H
4	* 2.386	29.16	VB1T	32.1	-22.7	38.56	54	-15.44	-	-	254	241	H
1	* 2.39	38.1	PK	32.1	-22.7	47.5	-	-	74	-26.5	254	241	H
3	* 2.39	28.96	VB1T	32.1	-22.7	38.36	54	-15.64	-	-	254	241	H

VERTICAL PEAK AND AVERAGE PLOT

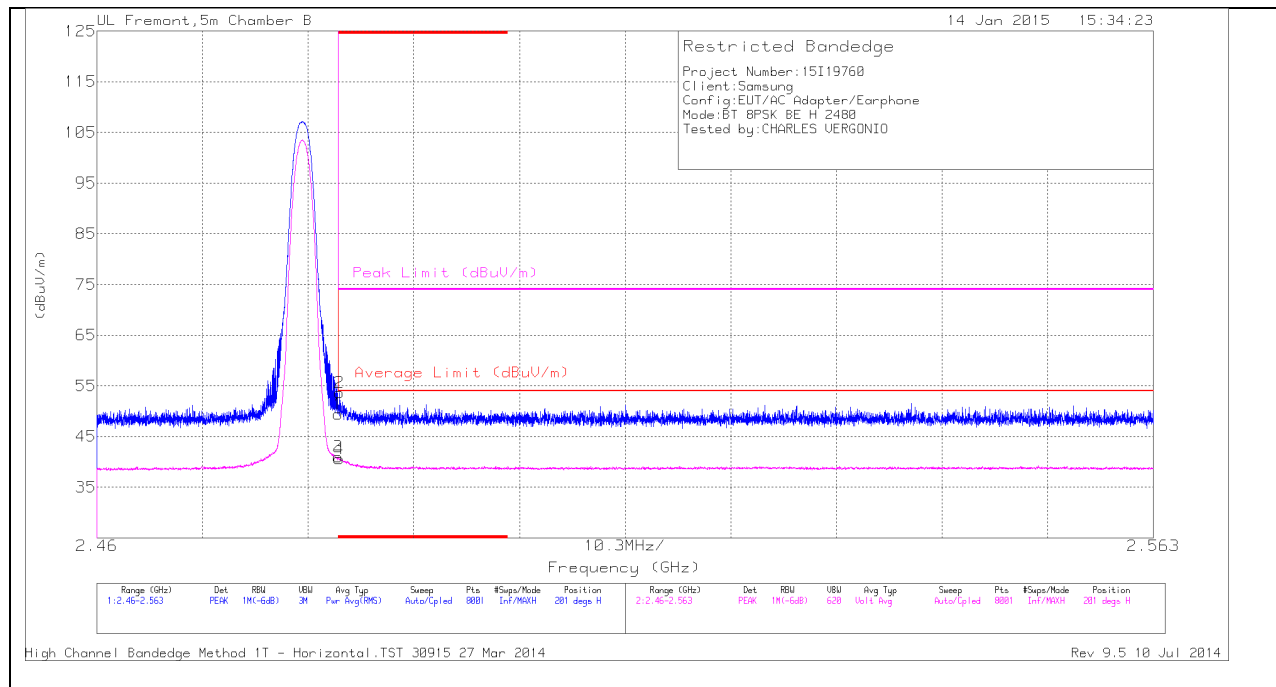


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.371	42.23	PK	32	-22.8	51.43	-	-	74	-22.57	262	297	V
4	* 2.384	29.33	VB1T	32.1	-22.7	38.73	54	-15.27	-	-	262	297	V
1	* 2.39	38.36	PK	32.1	-22.7	47.76	-	-	74	-26.24	262	297	V
3	* 2.39	28.86	VB1T	32.1	-22.7	38.26	54	-15.74	-	-	262	297	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

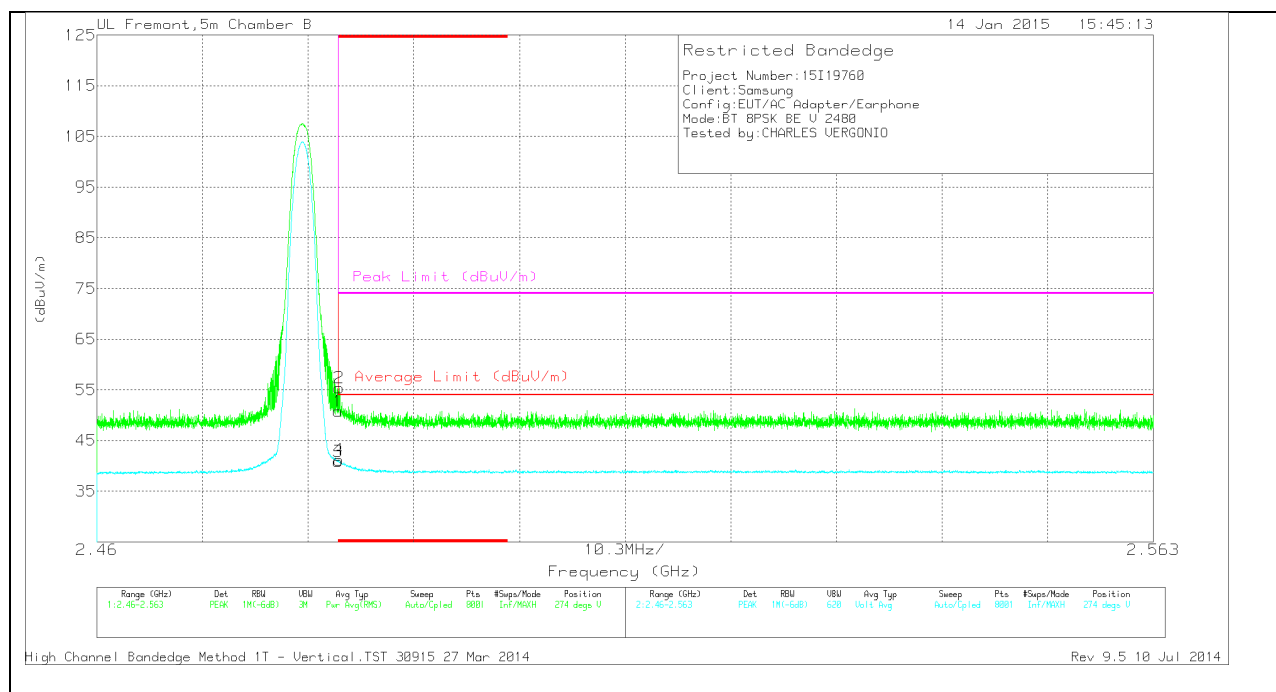
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/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	* 2.484	39.68	PK	32.4	-22.6	49.48	-	-	74	-24.52	201	143	H
2	* 2.484	43.83	PK	32.4	-22.6	53.63	-	-	74	-20.37	201	143	H
3	* 2.484	31.15	VB1T	32.4	-22.6	40.95	54	-13.05	-	-	201	143	H
4	* 2.484	30.83	VB1T	32.4	-22.6	40.63	54	-13.37	-	-	201	143	H

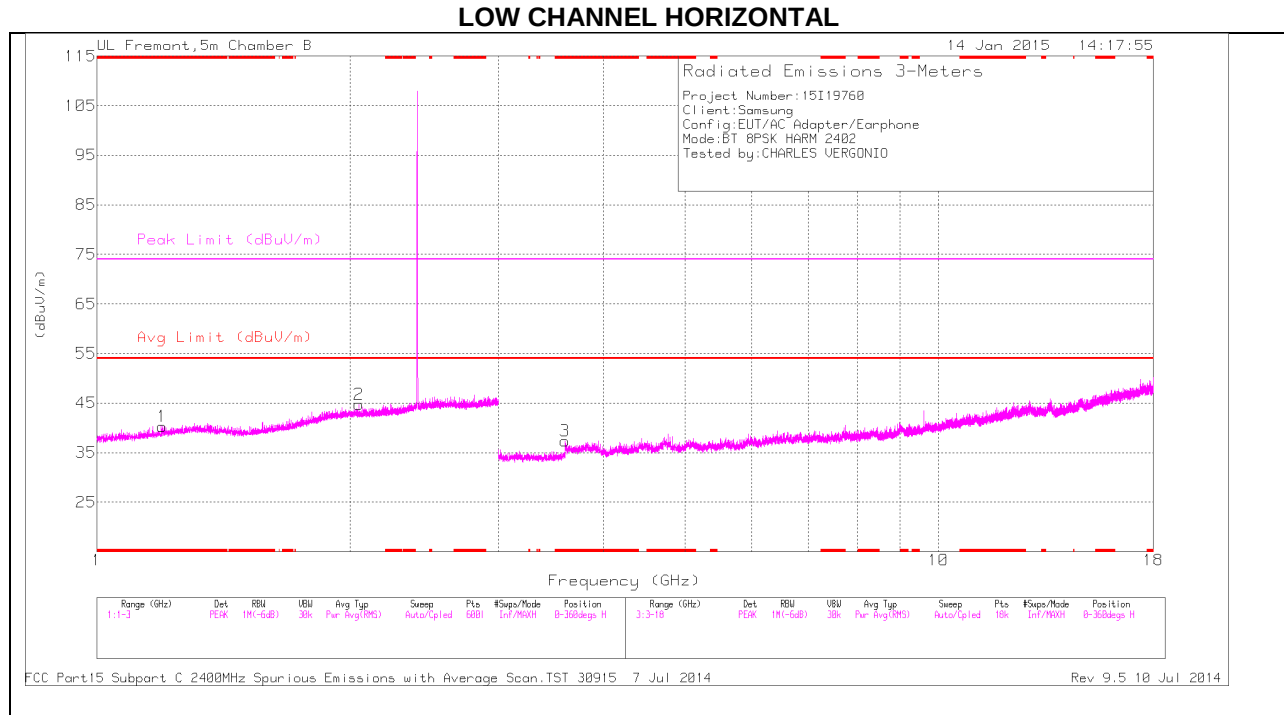
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

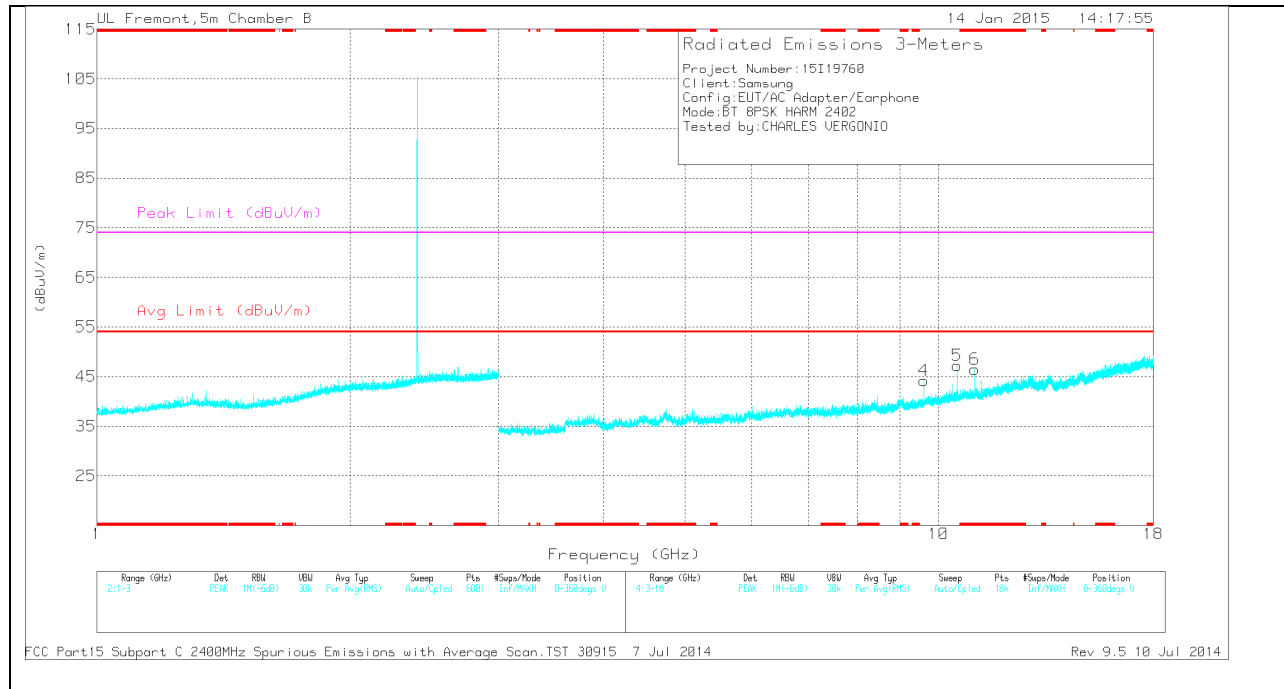
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.96	PK	32.4	-22.6	50.76	-	-	74	-23.24	274	284	V
2	* 2.484	45.59	PK	32.4	-22.6	55.39	-	-	74	-18.61	274	284	V
3	* 2.484	31.05	VB1T	32.4	-22.6	40.85	54	-13.15	-	-	274	284	V
4	* 2.484	31.37	VB1T	32.4	-22.6	41.17	54	-12.83	-	-	274	284	V

HARMONICS AND SPURIOUS EMISSIONS



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 T345 (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	* 1.196	36.43	PK	28.2	-24.4	40.23	-	-	74	-33.77	0-360	200	H
3	* 3.602	35.15	PK	33.1	-30.9	37.35	-	-	74	-36.65	0-360	101	H
6	* 11.04	31.44	PK	37.8	-22.7	46.54	-	-	74	-27.46	0-360	199	V
2	2.049	36.76	PK	31.3	-23.3	44.76	-	-	-	-	0-360	101	H
4	9.608	31.92	PK	36.8	-24.5	44.22	-	-	-	-	0-360	101	V
5	10.52	33.19	PK	37.5	-23.4	47.29	-	-	-	-	0-360	199	V

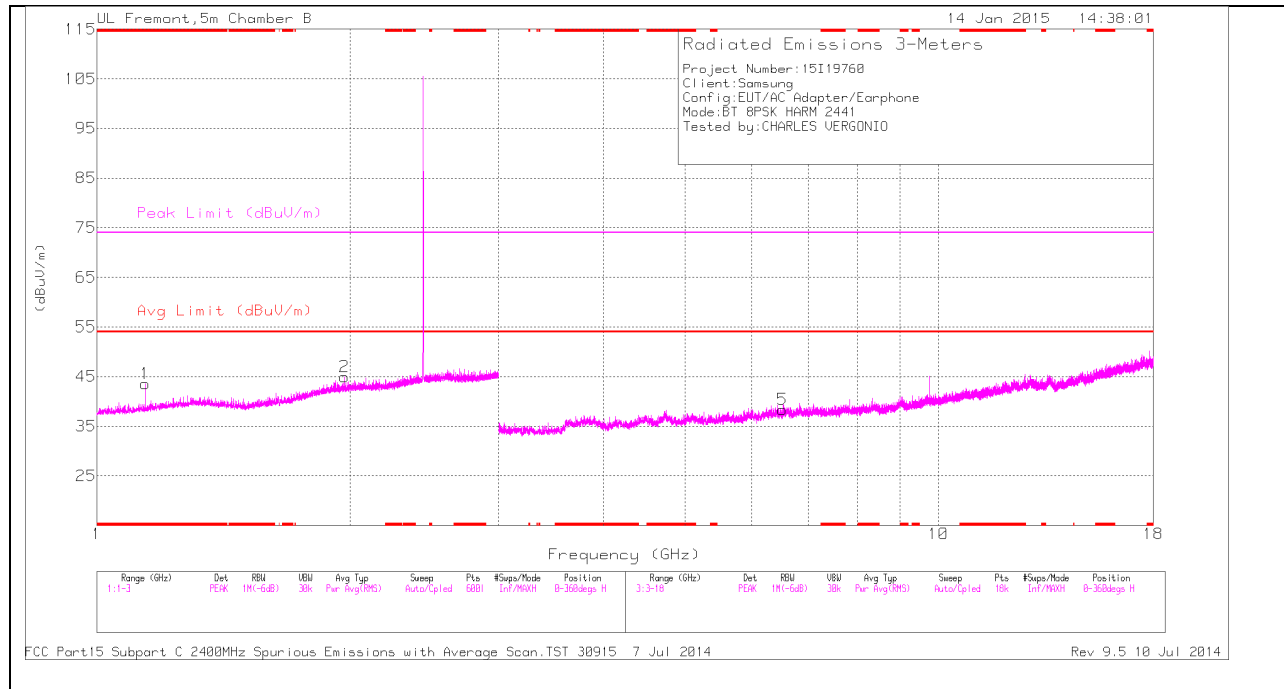
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 11.039	34.83	PK3	37.8	-22.8	49.83	-	-	74	-24.17	28	199	V
* 11.038	22.97	VB1T	37.8	-22.8	37.97	54	-16.03	-	-	28	199	V
9.608	38.4	PK3	36.8	-24.5	50.7	-	-	-	-	357	101	H
9.608	23.93	VB1T	36.8	-24.5	36.23	-	-	-	-	357	101	H
10.52	35.3	PK3	37.5	-23.4	49.4	-	-	-	-	3	199	V
10.521	23.32	VB1T	37.5	-23.4	37.42	-	-	-	-	3	199	V

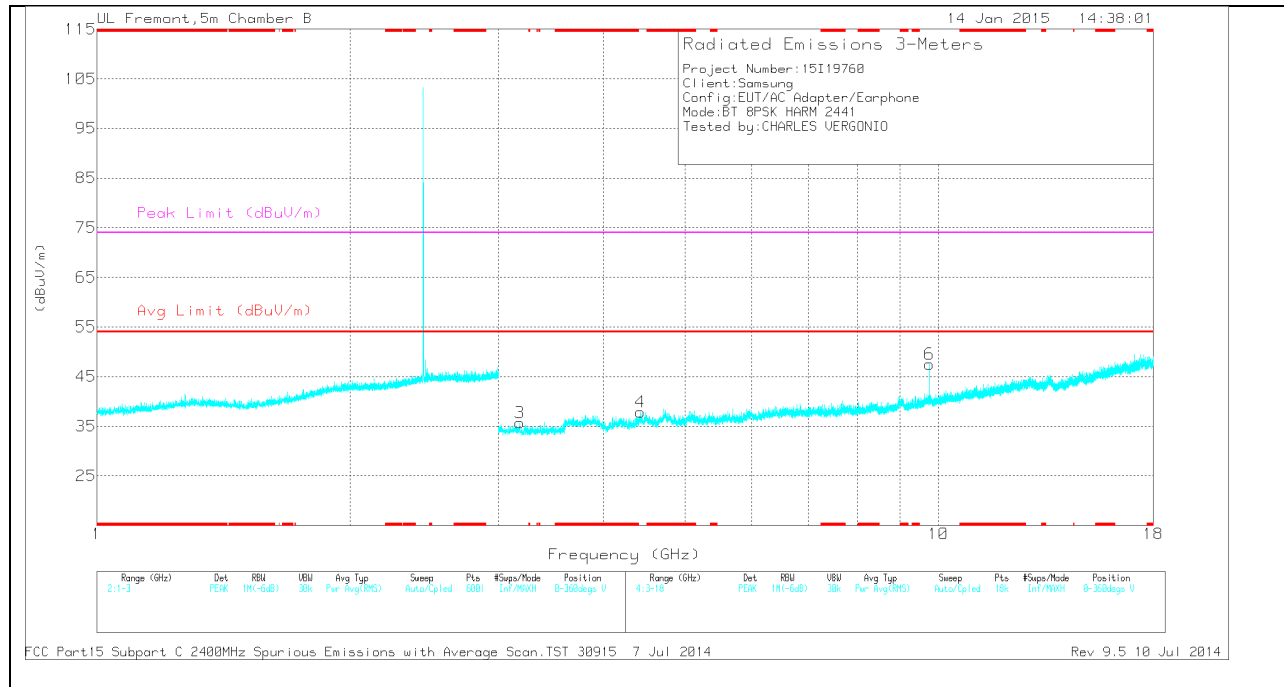
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MID CHANNEL HORIZONTAL



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 T345 (dB/m)	Amp/Cbl/Filtr/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	* 1.141	40.42	PK	27.7	-24.5	43.62	-	-	74	-30.38	0-360	101	H
2	1.97	37.1	PK	31.3	-23.4	45	-	-	-	-	0-360	199	H
3	3.178	33.88	PK	32.8	-31	35.68	-	-	-	-	0-360	199	V
4	4.424	33.49	PK	33.8	-29.4	37.89	-	-	-	-	0-360	199	V
5	6.523	31.22	PK	35.7	-28.5	38.42	-	-	-	-	0-360	101	H
6	9.764	34.91	PK	36.9	-24.3	47.51	-	-	-	-	0-360	199	V

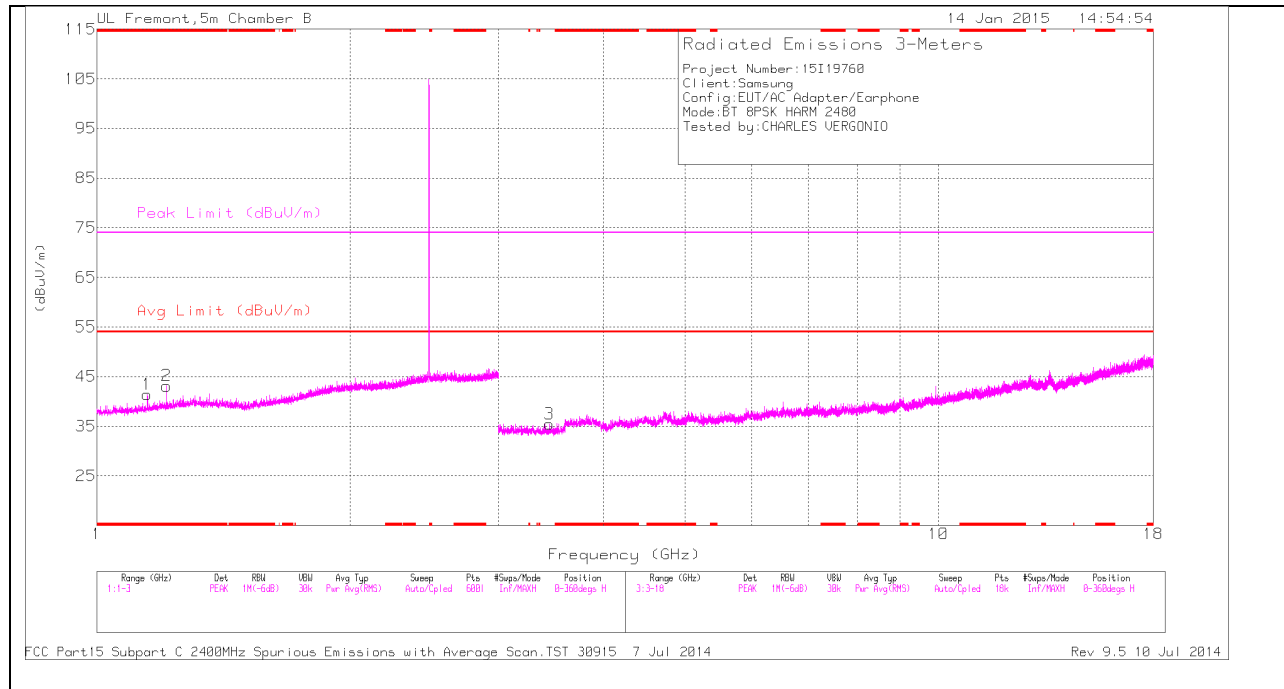
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.143	44.44	PK3	27.7	-24.5	47.64	-	-	74	-26.36	2	216	H
* 1.142	31.55	VB1T	27.7	-24.5	34.75	54	-19.25	-	-	29	216	H
9.764	38.11	PK3	36.9	-24.3	50.71	-	-	-	-	2	201	V
9.764	30.29	VB1T	36.9	-24.3	42.89	-	-	-	-	29	201	V

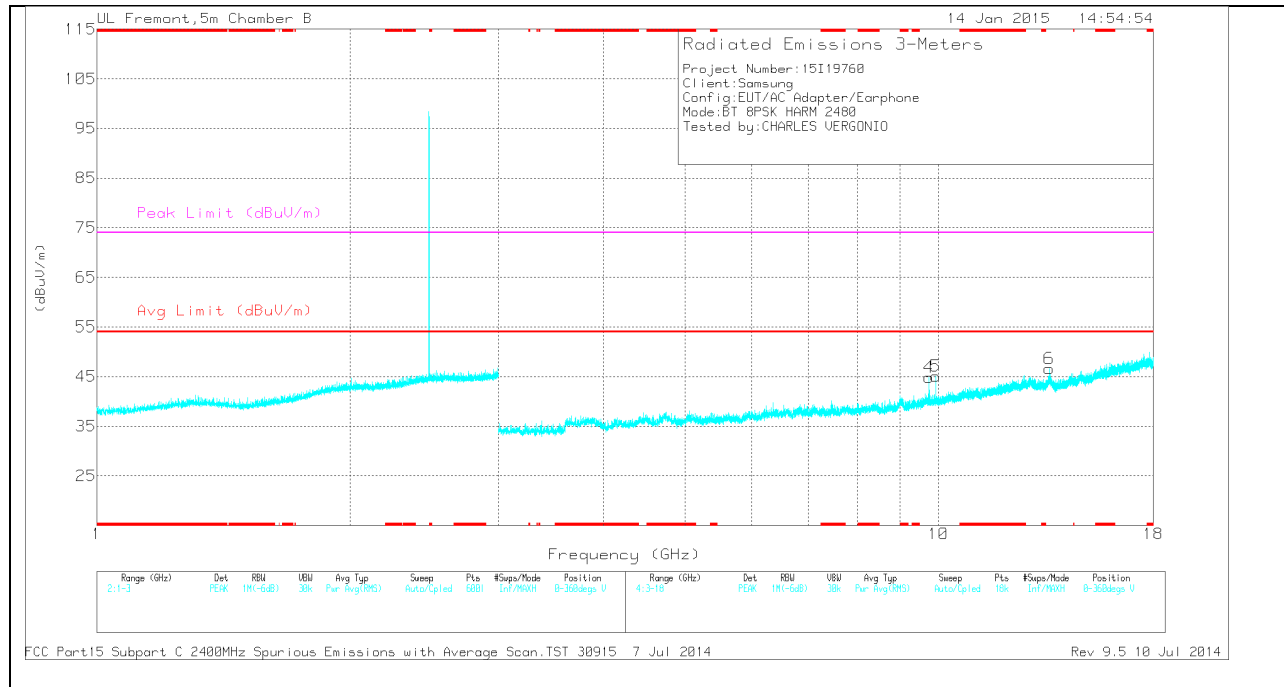
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HIGH CHANNEL HORIZONTAL



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 T345 (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	* 1.148	38.12	PK	27.8	-24.5	41.42	-	-	74	-32.58	0-360	199	H
2	* 1.211	39.23	PK	28.3	-24.4	43.13	-	-	74	-30.87	0-360	101	H
3	3.447	33.63	PK	32.8	-31	35.43	-	-	-	-	0-360	199	H
4	9.748	32.14	PK	36.9	-24.2	44.84	-	-	-	-	0-360	101	V
5	9.92	32.2	PK	37	-24.1	45.1	-	-	-	-	0-360	199	V
6	13.539	28.42	PK	38.9	-20.7	46.62	-	-	-	-	0-360	101	V

PK - Peak detector

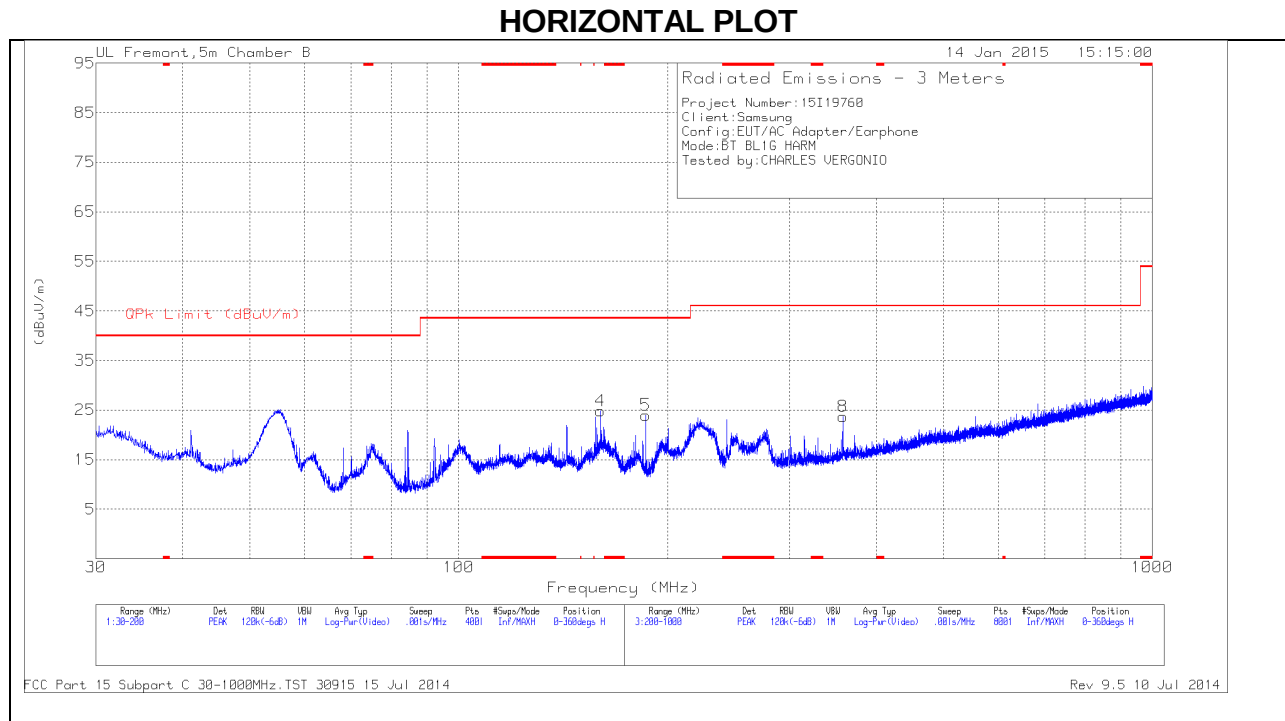
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
9.746	36.32	PK3	36.9	-24.3	48.92	-	-	-	-	22	100	V
9.747	23.86	VB1T	36.9	-24.3	36.46	-	-	-	-	22	100	V
9.92	38.81	PK3	37	-24.1	51.71	-	-	-	-	334	199	V
9.92	32.12	VB1T	37	-24.1	45.02	-	-	-	-	334	199	V
13.537	22.48	VB1T	38.9	-20.7	40.68	-	-	-	-	209	103	V
13.539	35.1	PK3	38.9	-20.7	53.3	-	-	-	-	209	103	V

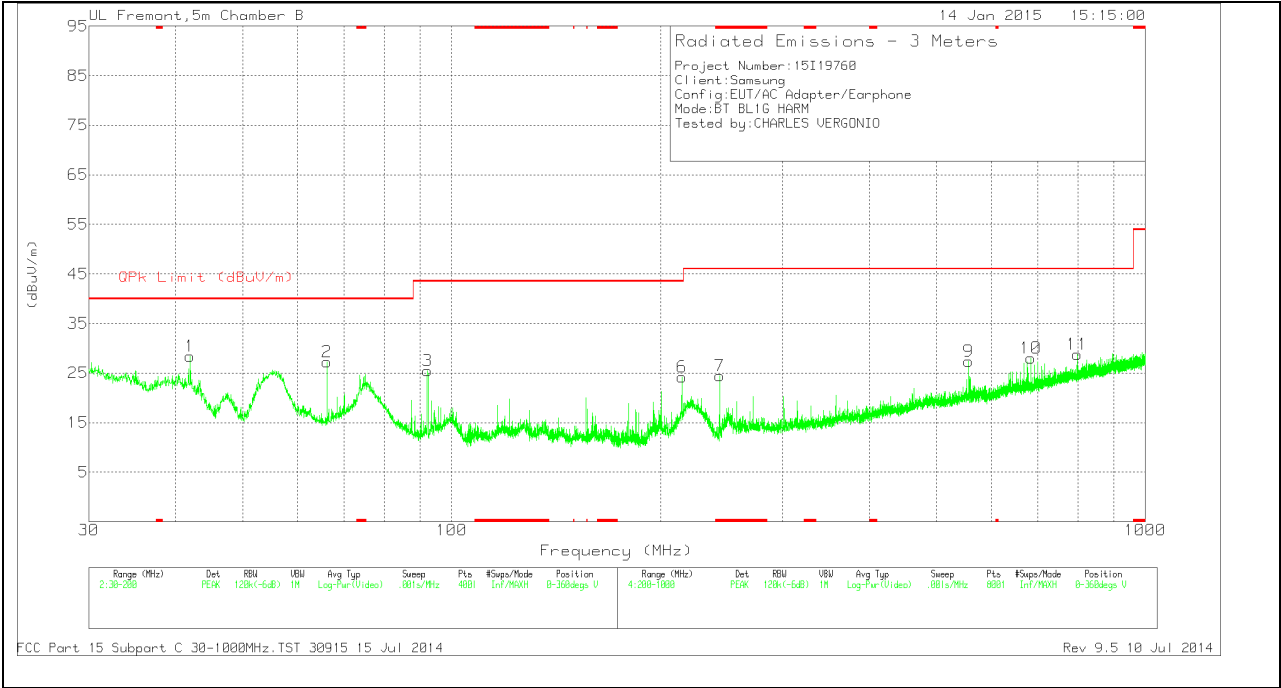
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9.3. WORST-CASE BELOW 1 GHz

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



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
7	* 243.4	39.28	PK	11.6	-26.4	24.48	46.02	-21.54	0-360	101	V
1	41.985	44.35	PK	12.6	-28.6	28.35	40	-11.65	0-360	101	V
2	66.125	47.74	PK	7.9	-28.4	27.24	40	-12.76	0-360	101	V
3	92.39	45.43	PK	8.2	-28.1	25.53	43.52	-17.99	0-360	101	V
4	160.1775	39.93	PK	12.2	-27.3	24.83	43.52	-18.69	0-360	101	H
5	186.145	39.71	PK	11.3	-27	24.01	43.52	-19.51	0-360	101	H
6	214.8	40.39	PK	10.6	-26.8	24.19	43.52	-19.33	0-360	200	V
8	358	34.72	PK	14.8	-25.8	23.72	46.02	-22.3	0-360	200	H
9	556	34.33	PK	18.6	-25.5	27.43	46.02	-18.59	0-360	101	V
10	684	32.95	PK	19.9	-24.8	28.05	46.02	-17.97	0-360	101	V
11	797.6	31.26	PK	21.4	-23.9	28.76	46.02	-17.26	0-360	200	V

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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.

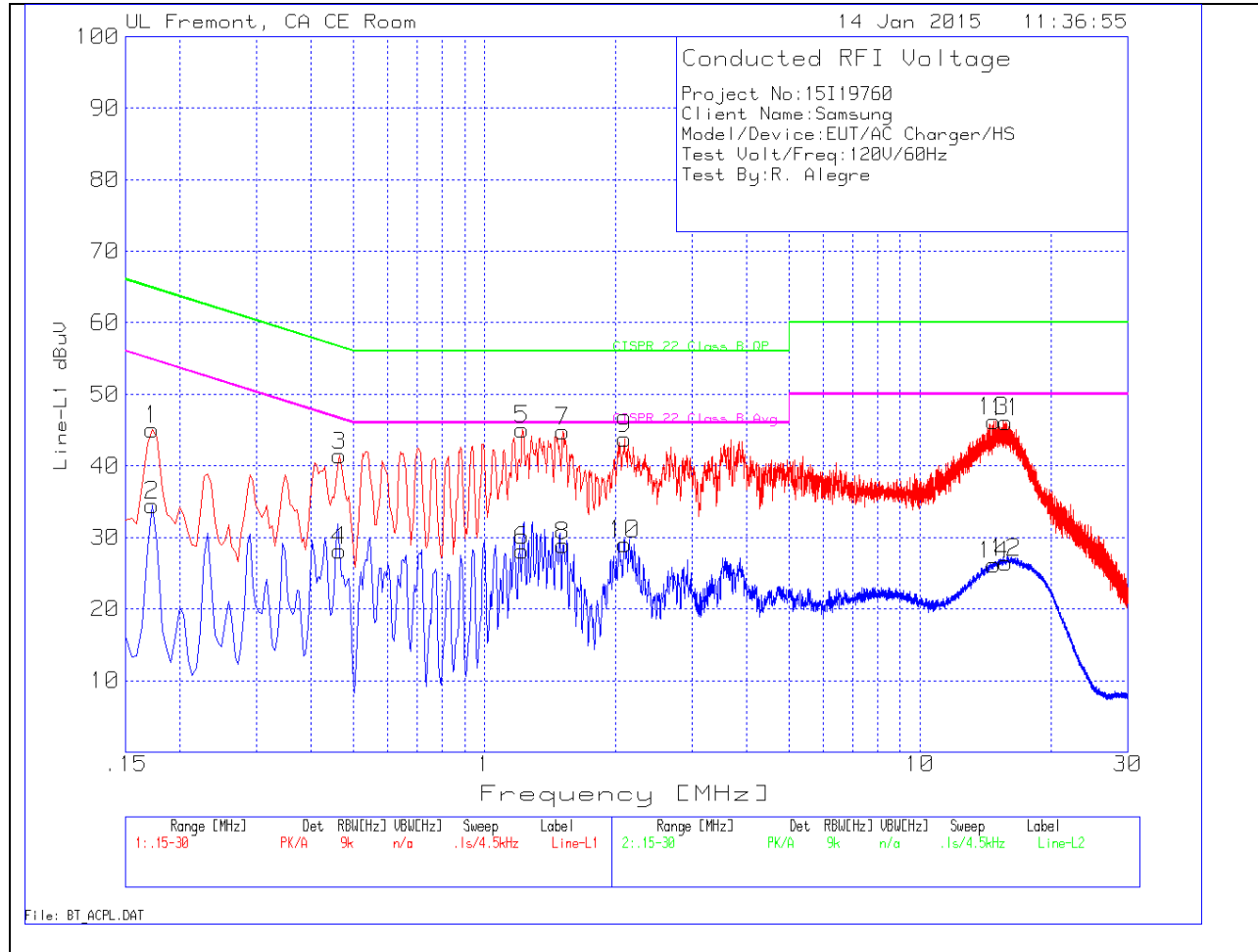
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT

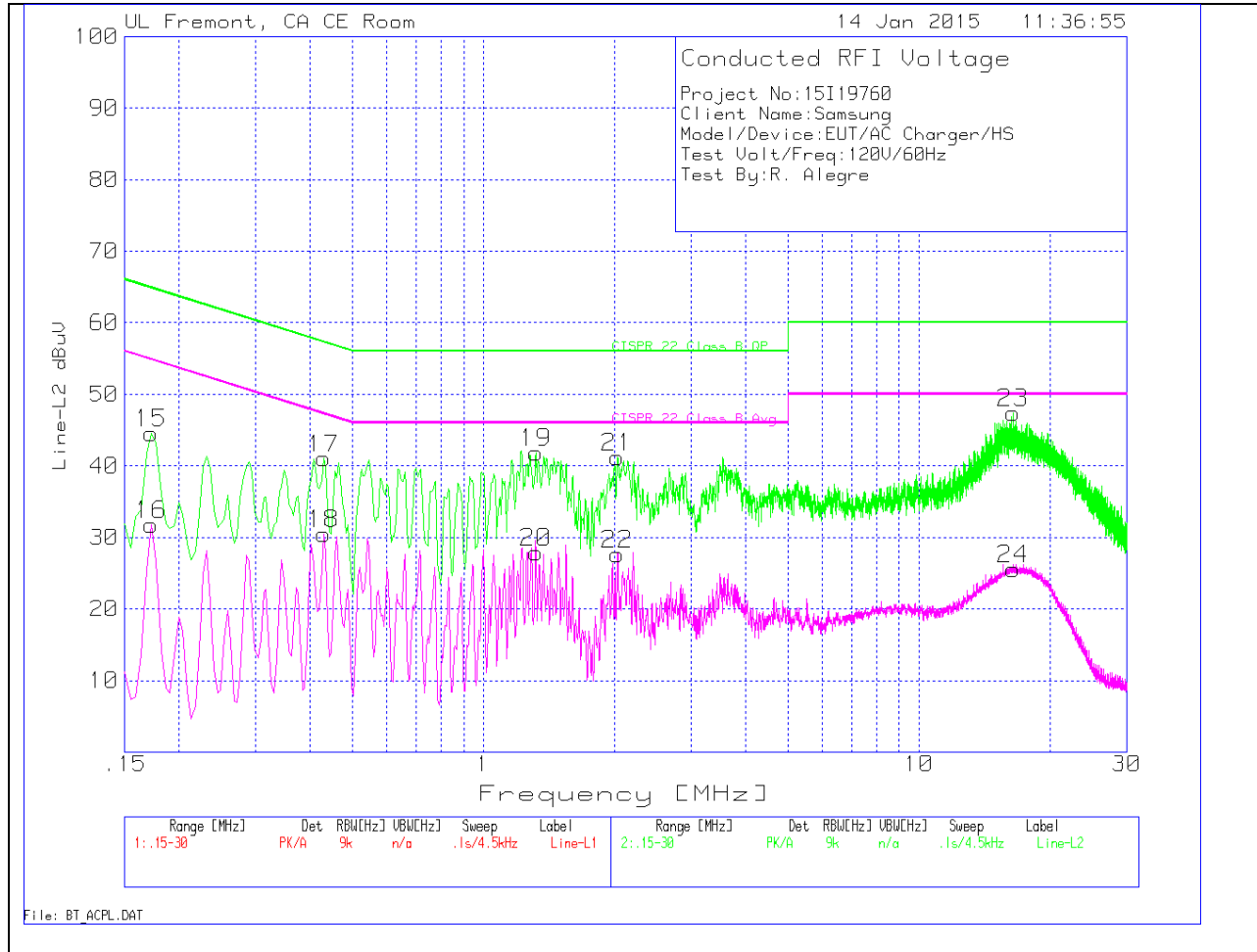


LINE 1 RESULTS

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	.1725	43.85	PK	1.2	0	45.05	64.8	-19.75	-	-
2	.1725	33.3	Av	1.2	0	34.5	-	-	54.8	-20.3
3	.465	41.01	PK	.4	0	41.41	56.6	-15.19	-	-
4	.465	27.77	Av	.4	0	28.17	-	-	46.6	-18.43
5	1.221	44.81	PK	.2	.1	45.11	56	-10.89	-	-
6	1.221	27.85	Av	.2	.1	28.15	-	-	46	-17.85
7	1.5135	44.51	PK	.2	.1	44.81	56	-11.19	-	-
8	1.5135	28.57	Av	.2	.1	28.87	-	-	46	-17.13
9	2.0985	43.52	PK	.2	.1	43.82	56	-12.18	-	-
10	2.0985	28.72	Av	.2	.1	29.02	-	-	46	-16.98
13	14.7615	45.8	PK	.2	.2	46.2	60	-13.8	-	-
14	14.7615	25.77	Av	.2	.2	26.17	-	-	50	-23.83
11	15.747	45.64	PK	.3	.2	46.14	60	-13.86	-	-
12	15.747	25.97	Av	.3	.2	26.47	-	-	50	-23.53

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)
15	.1725	43.32	PK	1.2	0	44.52	64.8	-20.28	-	-
16	.1725	30.6	Av	1.2	0	31.8	-	-	54.8	-23
17	.429	40.62	PK	.4	0	41.02	57.3	-16.28	-	-
18	.429	30.11	Av	.4	0	30.51	-	-	47.3	-16.79
19	1.32	41.6	PK	.2	.1	41.9	56	-14.1	-	-
20	1.32	27.59	Av	.2	.1	27.89	-	-	46	-18.11
21	2.031	40.9	PK	.2	.1	41.2	56	-14.8	-	-
22	2.031	27.38	Av	.2	.1	27.68	-	-	46	-18.32
23	16.476	46.88	PK	.3	.2	47.38	60	-12.62	-	-
24	16.476	25.03	Av	.3	.2	25.53	-	-	50	-24.47