



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS b/g/n

MODEL NUMBER: LG-H345, LGH345, H345

FCC ID: ZNFH345

REPORT NUMBER: 15I19960-E2

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Prepared for

**LG ELECTRONICS MOBILECOMM U.S.A., INC
1000 SYLVAN AVENUE
ENGLEWOOD CLIFFS,
NEW JERSEY, 07632, U.S.A**

Prepared by

**UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888**



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Revision History

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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION	6
4.2. SAMPLE CALCULATION	6
4.3. MEASUREMENT UNCERTAINTY	7
5. EQUIPMENT UNDER TEST	8
5.1. DESCRIPTION OF EUT	8
5.2. MAXIMUM OUTPUT POWER.....	8
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	8
5.4. WORST-CASE CONFIGURATION AND MODE	9
5.5. DESCRIPTION OF TEST SETUP.....	10
6. TEST AND MEASUREMENT EQUIPMENT	12
7. SUMMARY TABLE	13
8. ANTENNA PORT TEST RESULTS	14
8.1. 20 dB AND 99% BANDWIDTH	14
8.1.1. BASIC DATA RATE GFSK MODULATION	14
8.1.2. ENHANCED DATA RATE 8PSK MODULATION	14
8.1.3. 20 dB AND 99% BANDWIDTH PLOTS.....	15
8.2. HOPPING FREQUENCY SEPARATION	27
8.3. NUMBER OF HOPPING CHANNELS.....	29
8.4. AVERAGE TIME OF OCCUPANCY.....	34
8.5. OUTPUT POWER.....	41
8.5.1. BASIC DATA RATE GFSK MODULATION	41
8.5.2. ENHANCED DATA RATE 8PSK MODULATION	41
8.5.3. OUTPUT POWER PLOTS.....	42
8.6. AVERAGE POWER.....	48
8.6.1. BASIC DATA RATE GFSK MODULATION	48
8.6.2. ENHANCED DATA RATE 8PSK MODULATION	48
8.7. CONDUCTED SPURIOUS EMISSIONS.....	49
8.7.1. BASIC DATA RATE GFSK MODULATION	50
8.7.2. ENHANCED DATA RATE 8PSK MODULATION	58

9. RADIATED TEST RESULTS.....	66
9.1. LIMITS AND PROCEDURE	66
9.2. TRANSMITTER ABOVE 1 GHz	67
9.2.1. BASIC DATA RATE GFSK MODULATION	67
9.2.2. ENHANCED DATA RATE 8PSK MODULATION	80
9.3. WORST-CASE BELOW 1 GHz.....	93
10. AC POWER LINE CONDUCTED EMISSIONS	96
12. SETUP PHOTOS	99

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS b/g/n
MODEL: LG-H345, LGH345, H345
SERIAL NUMBER: 501KPED818116 (Radiated), 501KPRW818126 (Conducted)
DATE TESTED: FEBRUARY 3-4, 2015

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.

Approved & Released For
UL Verification Services Inc. By:



DAN CORONIA
CONSUMER TECHNOLOGY DIVISION
WISE PROJECT LEAD
UL VERIFICATION SERVICES INC

Tested By:



STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
WISE LAB ENGINEER
UL VERIFICATION SERVICES INC

2. TEST METHODOLOGY

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

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:

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

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/WCDMA/LTE PHONE + BLUETOOTH, DTS 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	8.03	6.35
2402 - 2480	Enhanced 8PSK	8.37	6.87

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 0.46dBi.

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	LG	MCS-02WR	RA4Y1031433	N/A
Earphone	LG	N/A	N/A	N/A

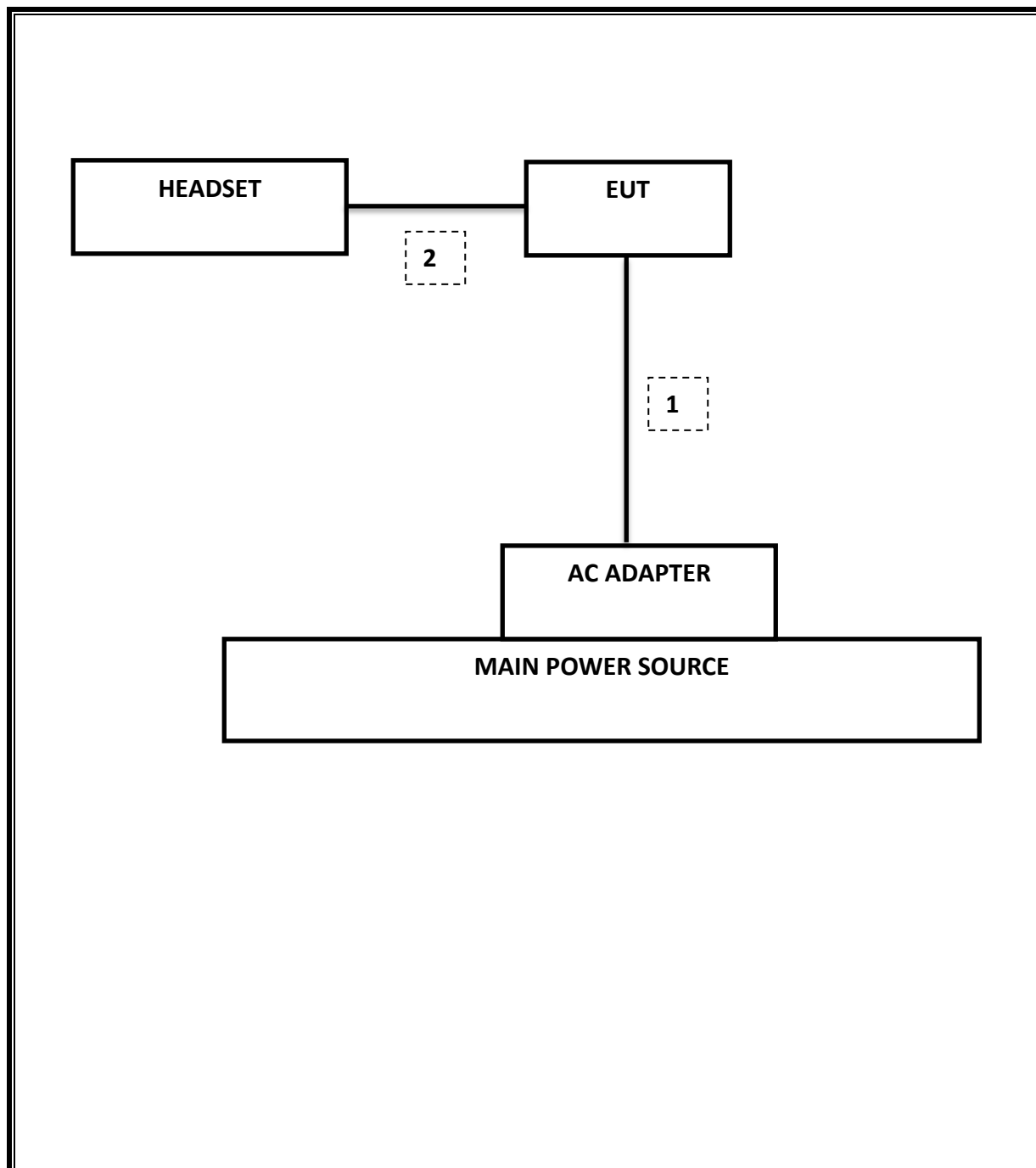
I/O CABLES

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.

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	Tnumber	Cal Due
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	122	02/13/16
Antenna, Horn, 18GHz	EMCO	3115	60	10/25/16
Antenna, Horn, 26.5 GHz	ARA	MWH-1826	89	11/14/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/15
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	01/16/16
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR
Radiated Software	UL	UL EMC	Ver 9.5, July 22, 2014	
Conducted Software	UL	UL EMC	Ver 9.5, May 17 2012	
CLT Software	UL	UL RF	Ver 1.0, Feb 2 2015	
Antenna Port Software	UL	UL RF	Ver 2.1.1.1, Jan 20 2015	

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	1.888 MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-40.02 dBm
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	8.37 dB
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	0.23 s
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10	Radiated	Pass	44.43
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	41.64 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	0.936	0.897
Middle	2441	0.933	0.895
High	2480	0.940	0.899
Worst		0.94	0.899

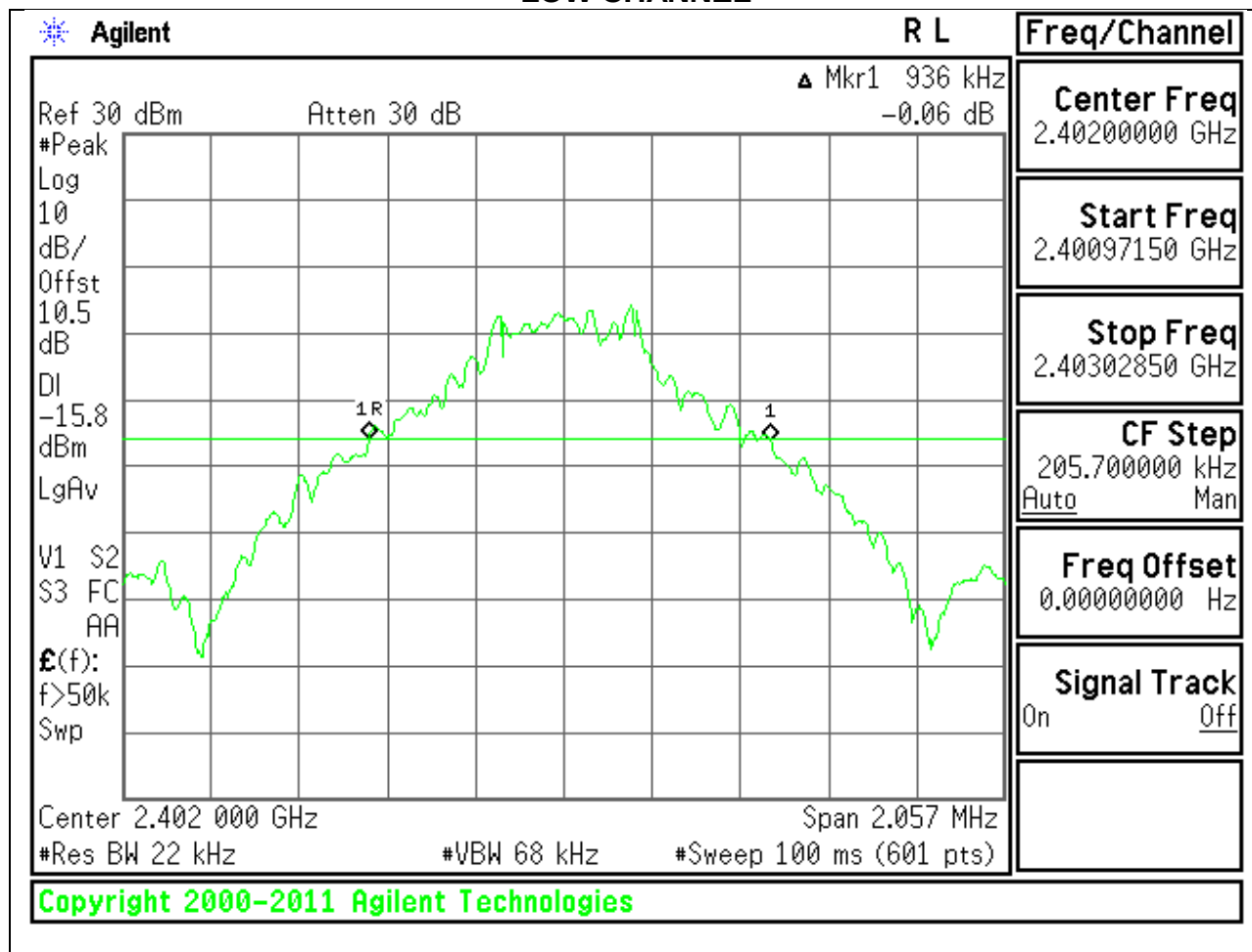
8.1.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.285	1.186
Middle	2441	1.281	1.188
High	2480	1.270	1.184
Worst		1.285	1.188

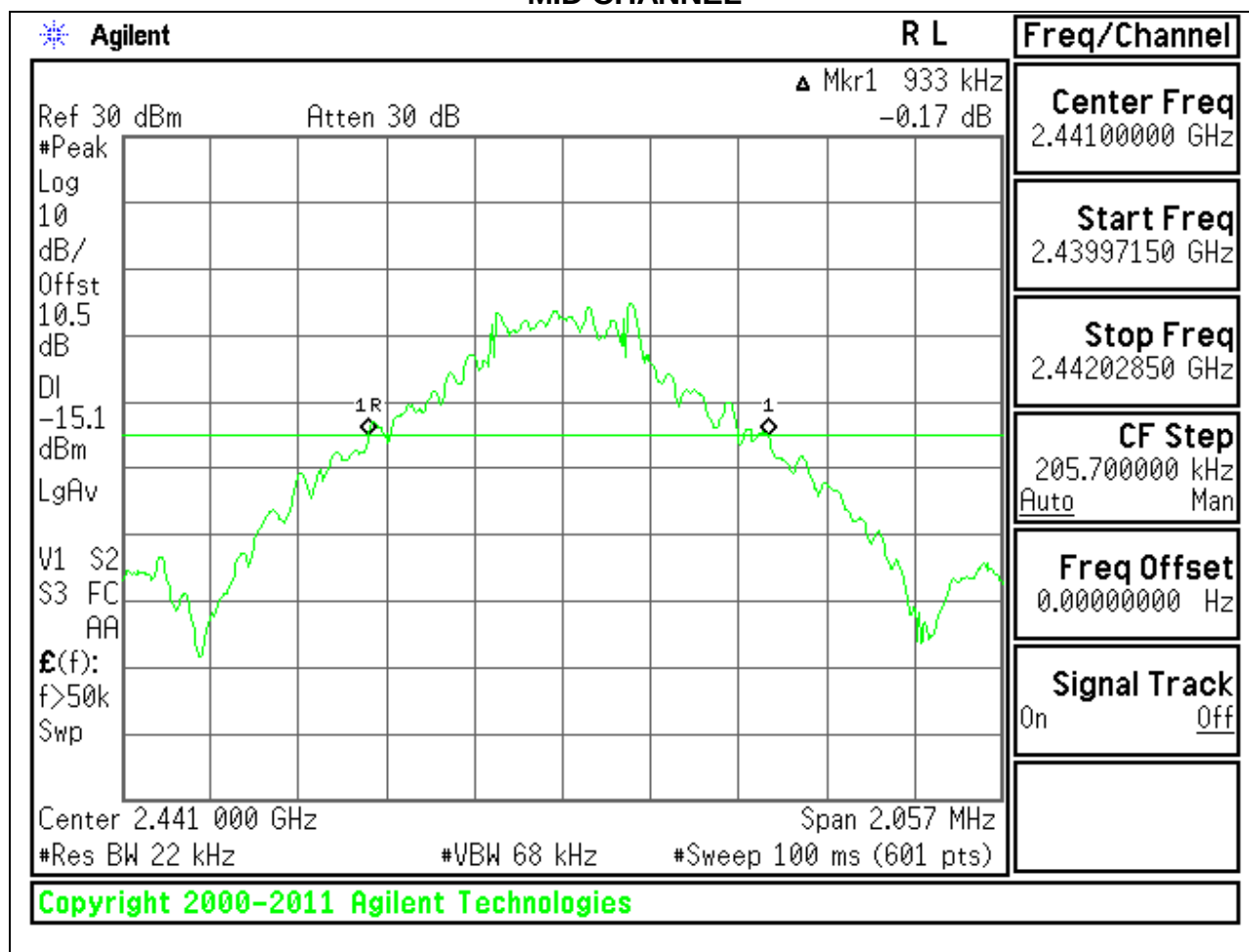
8.1.3. 20 dB AND 99% BANDWIDTH PLOTS

GFSK 20 dB BANDWIDTH

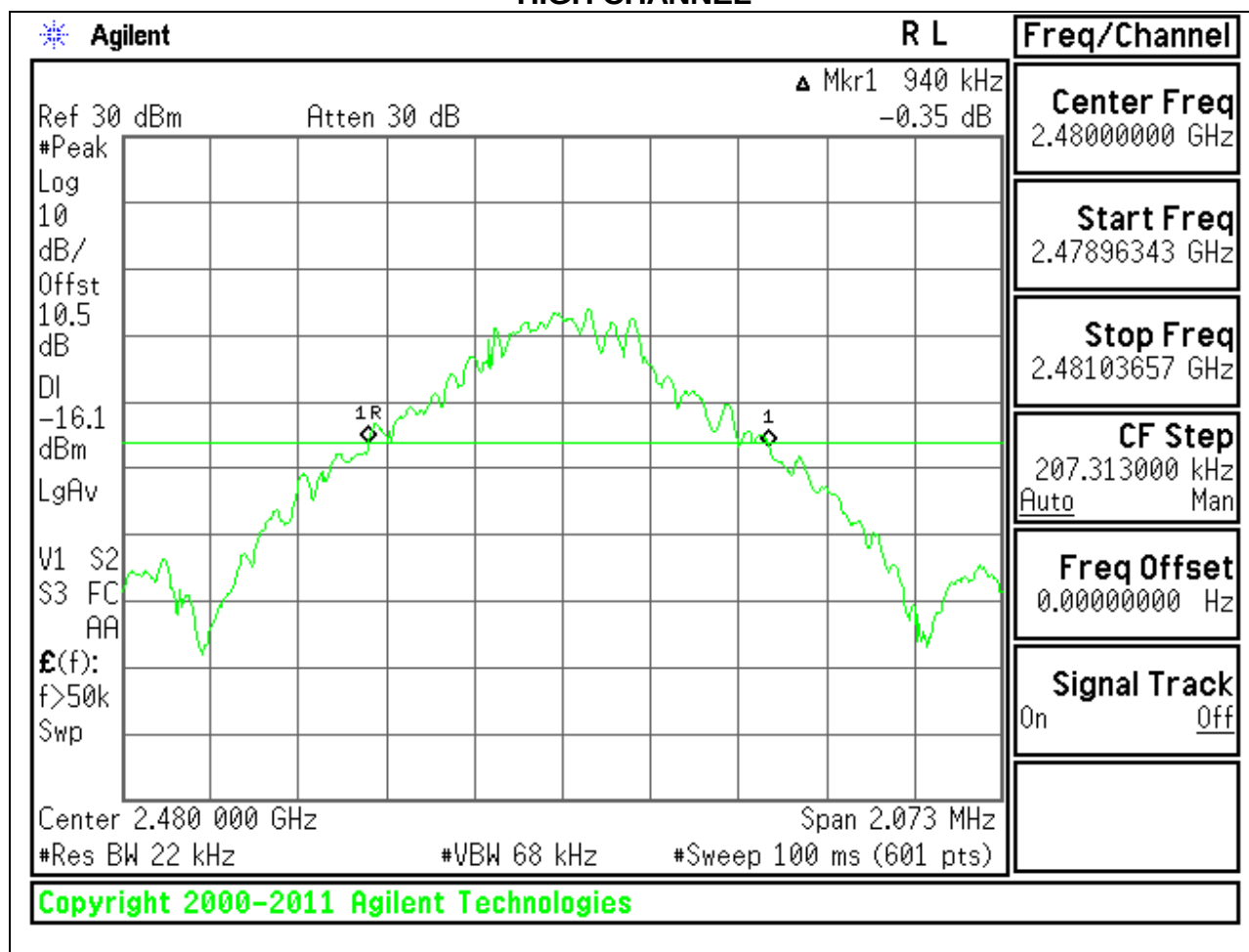
LOW CHANNEL



MID CHANNEL

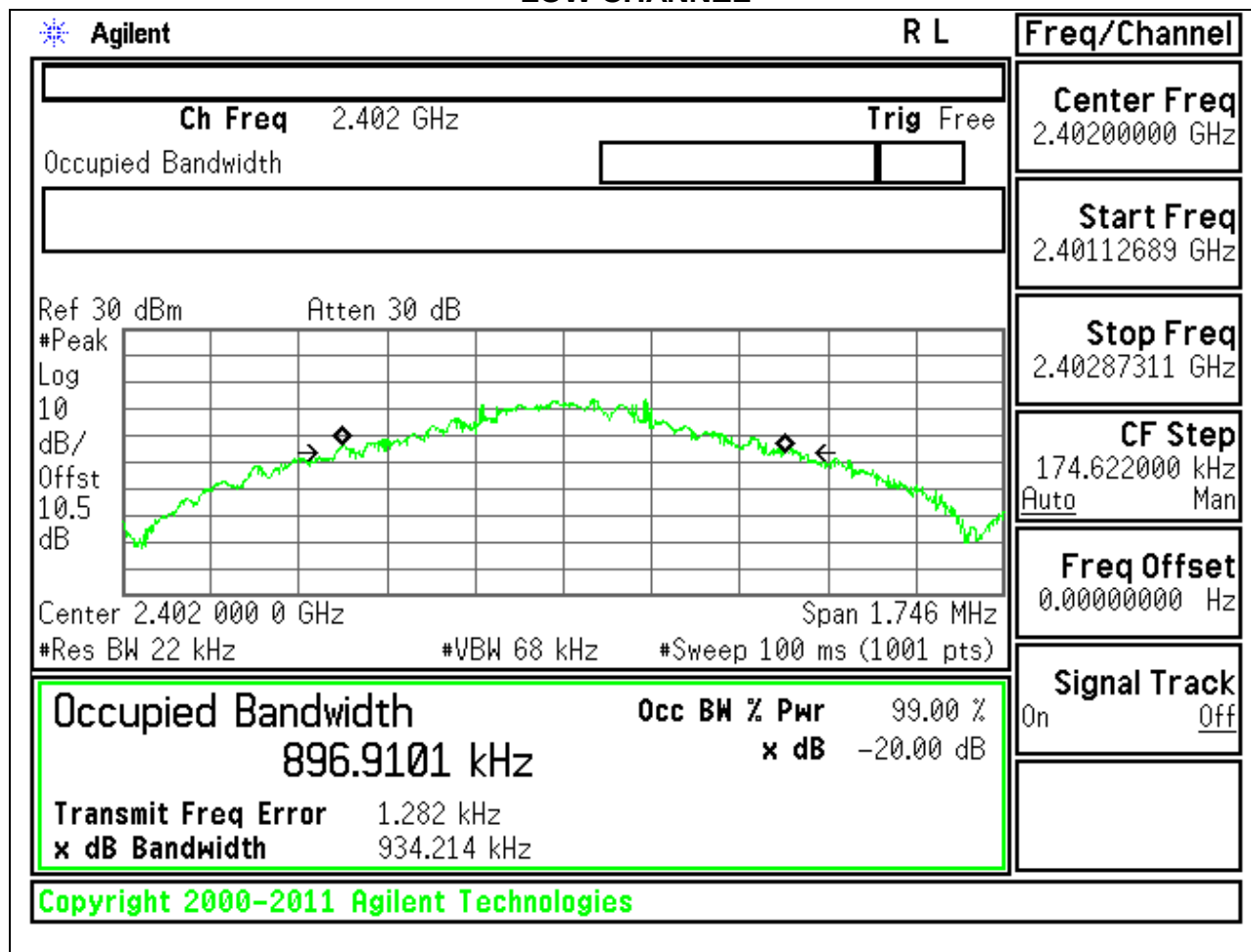


HIGH CHANNEL

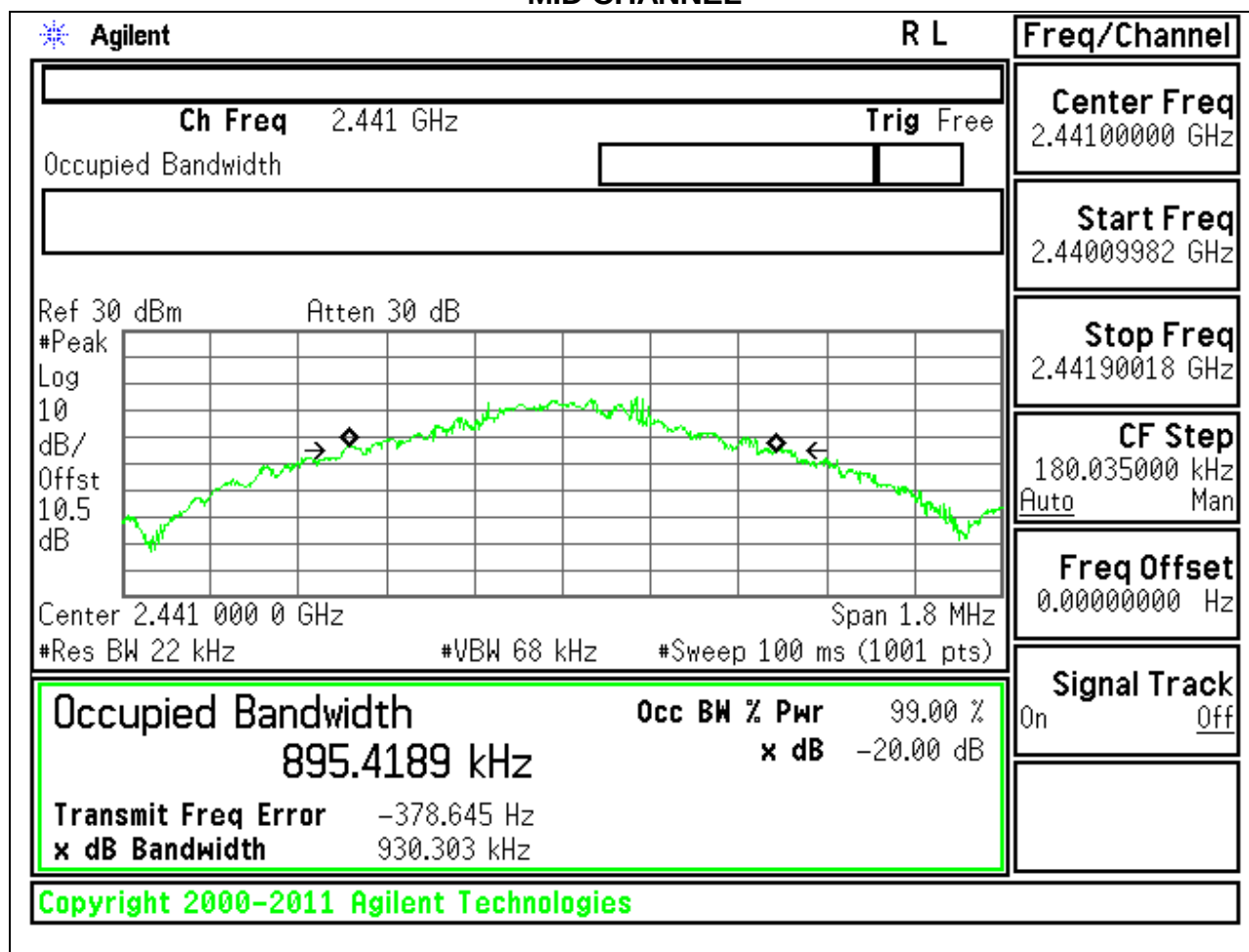


GFSK 99% BANDWIDTH

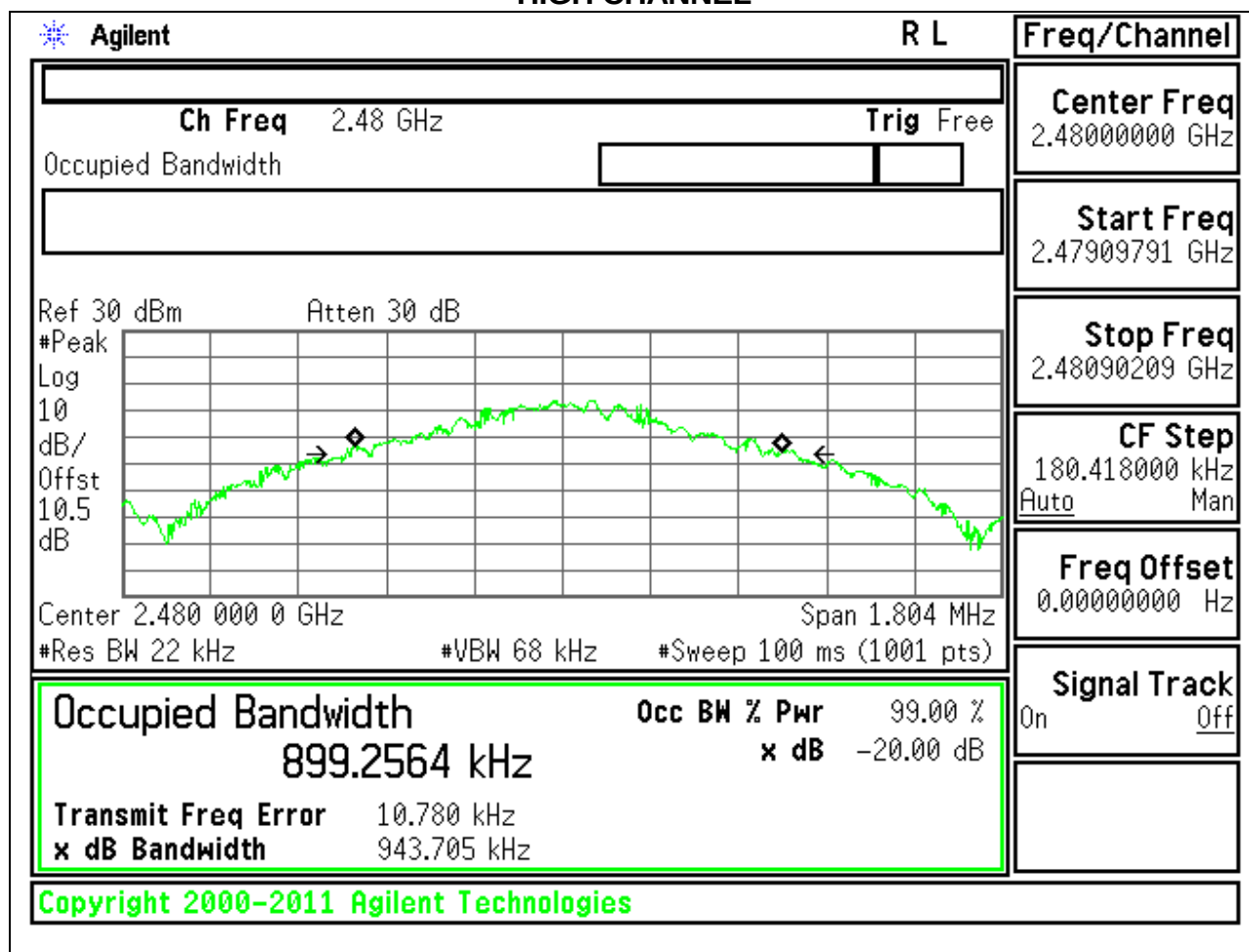
LOW CHANNEL



MID CHANNEL

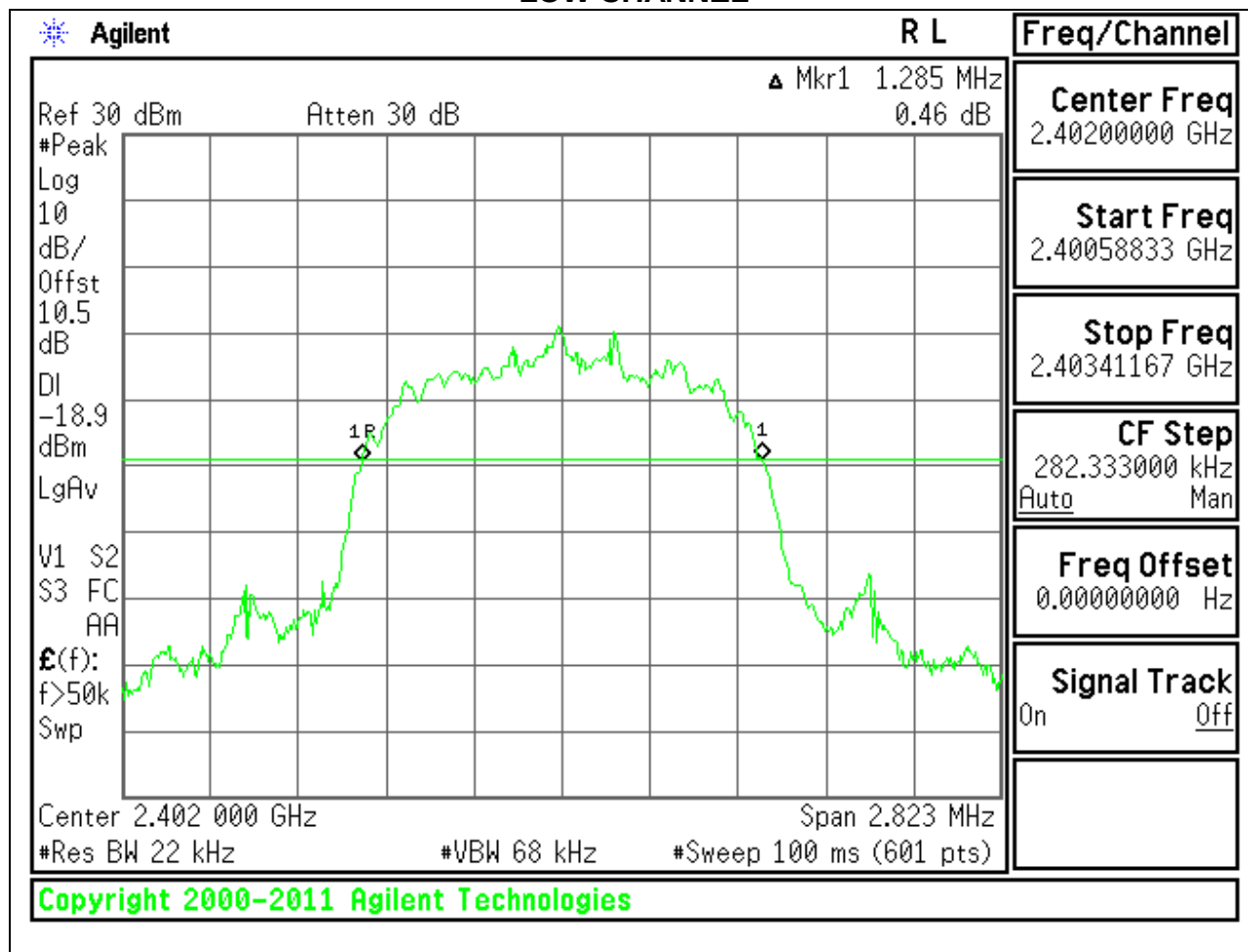


HIGH CHANNEL

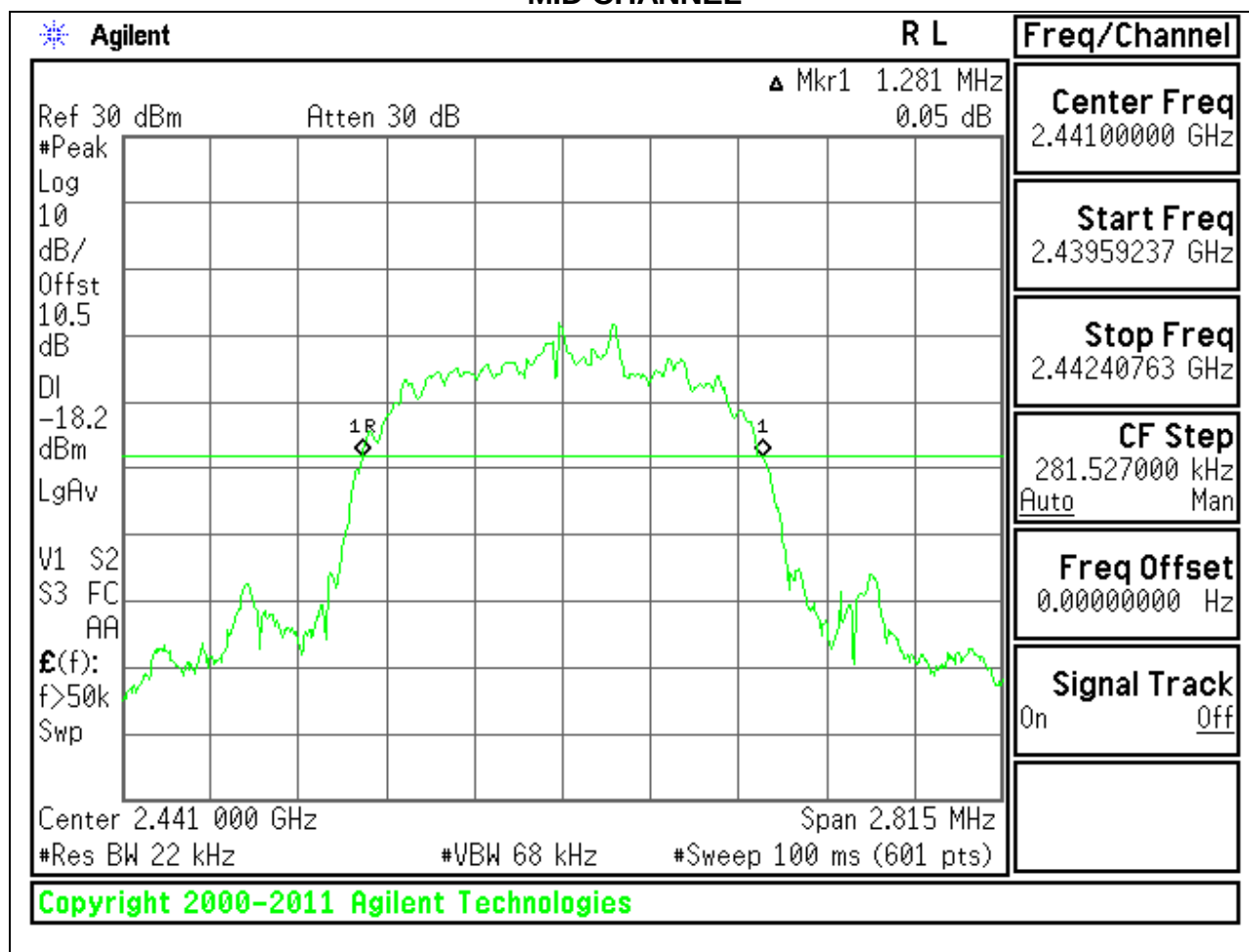


8PSK 20 dB BANDWIDTH

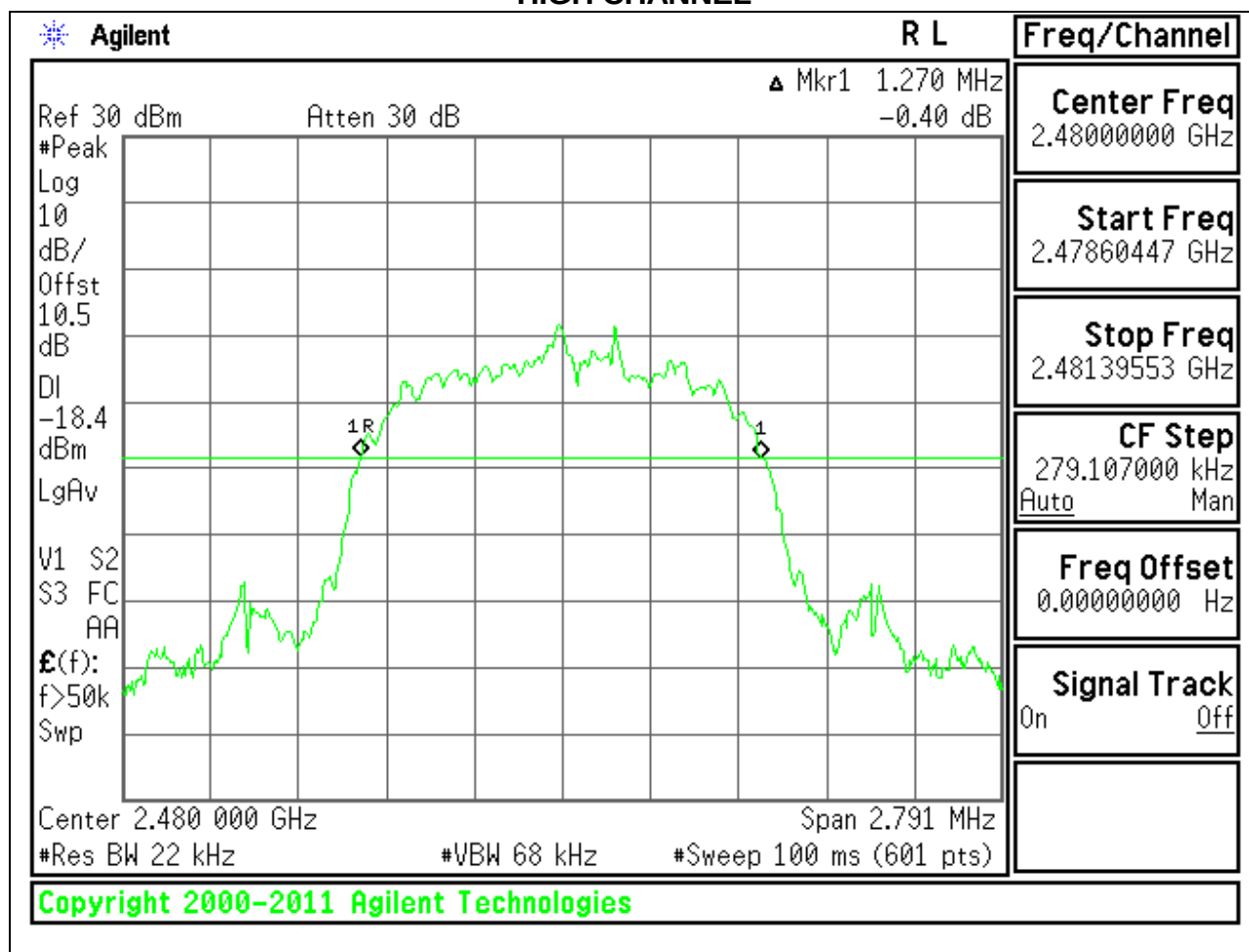
LOW CHANNEL



MID CHANNEL

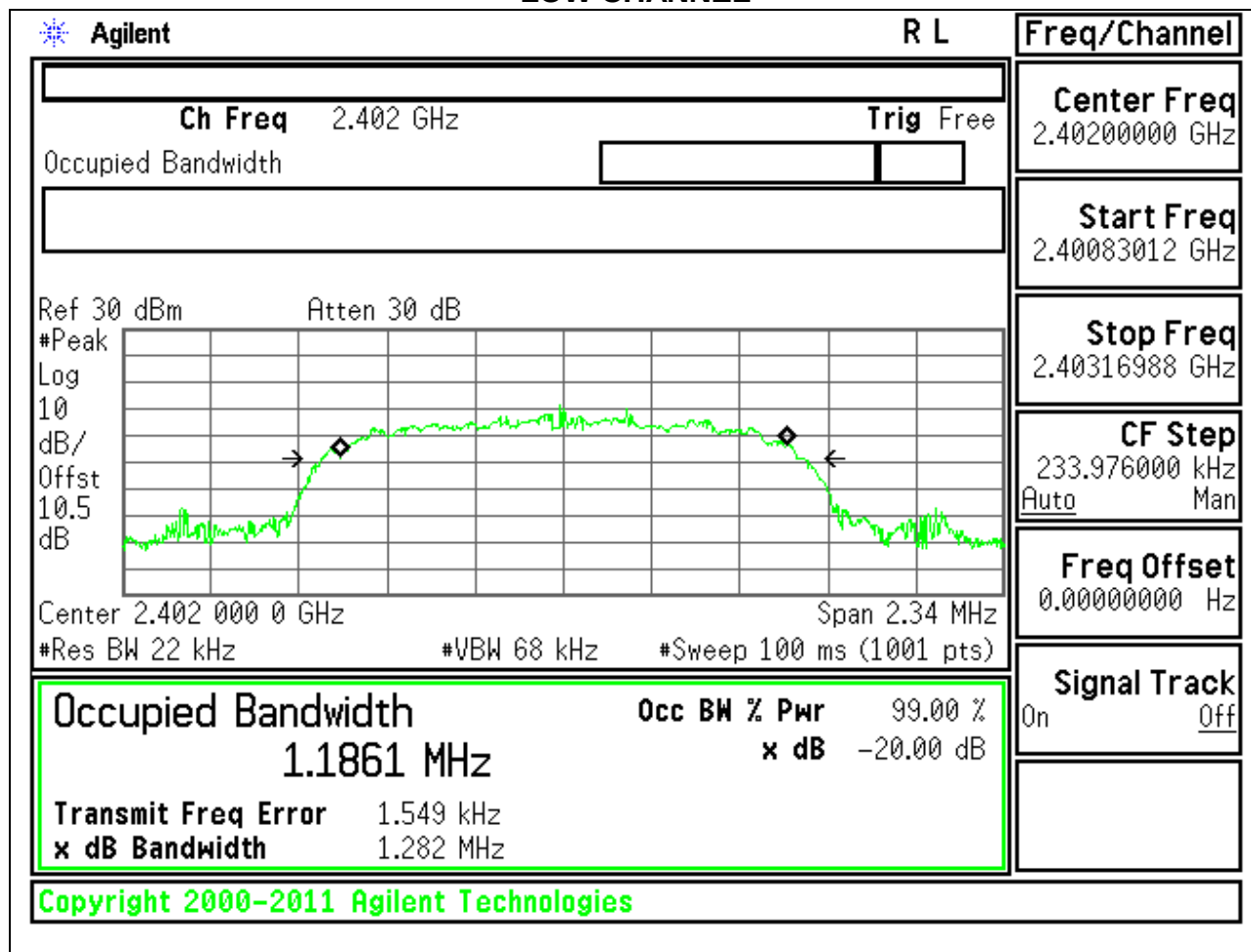


HIGH CHANNEL

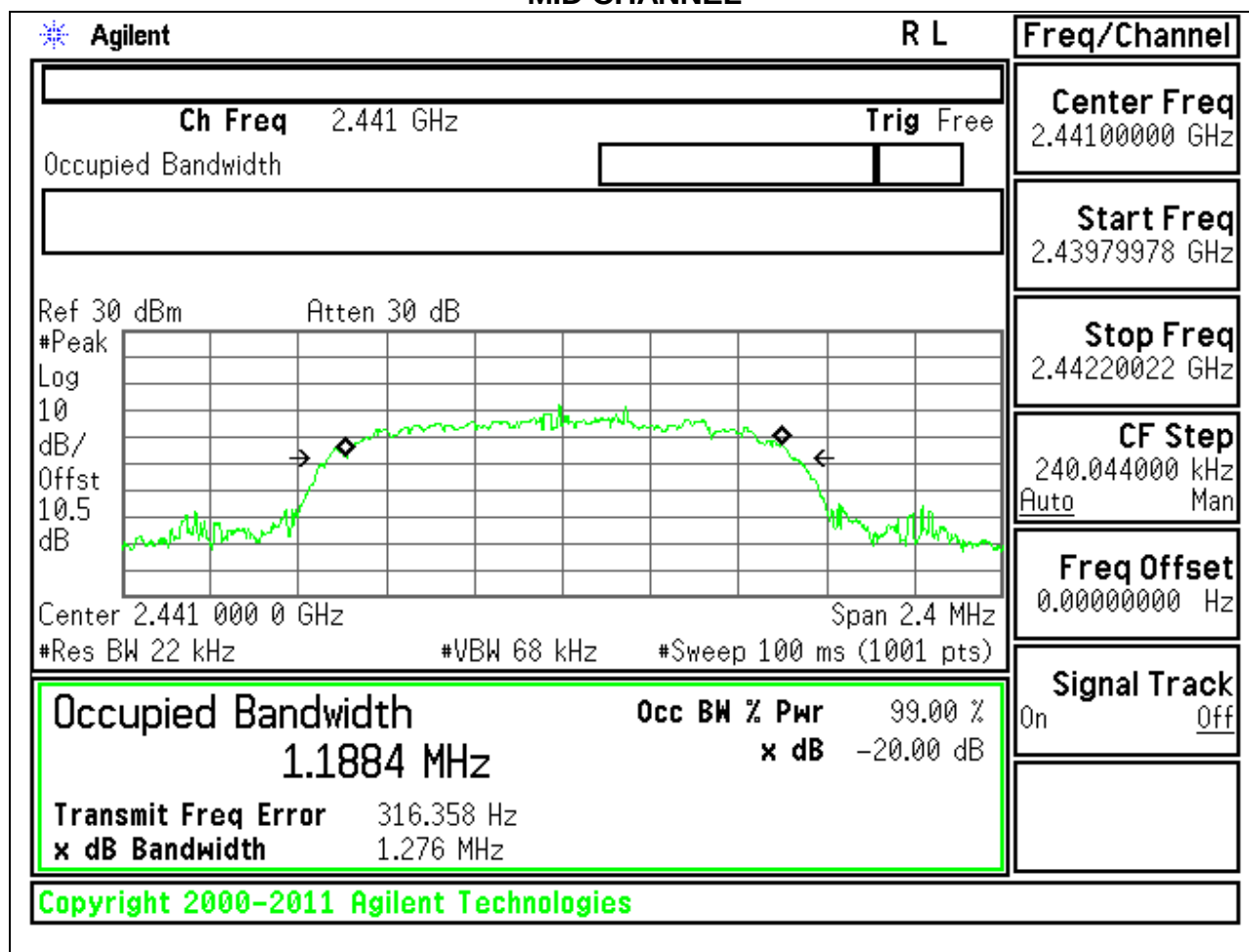


8PSK 99% BANDWIDTH

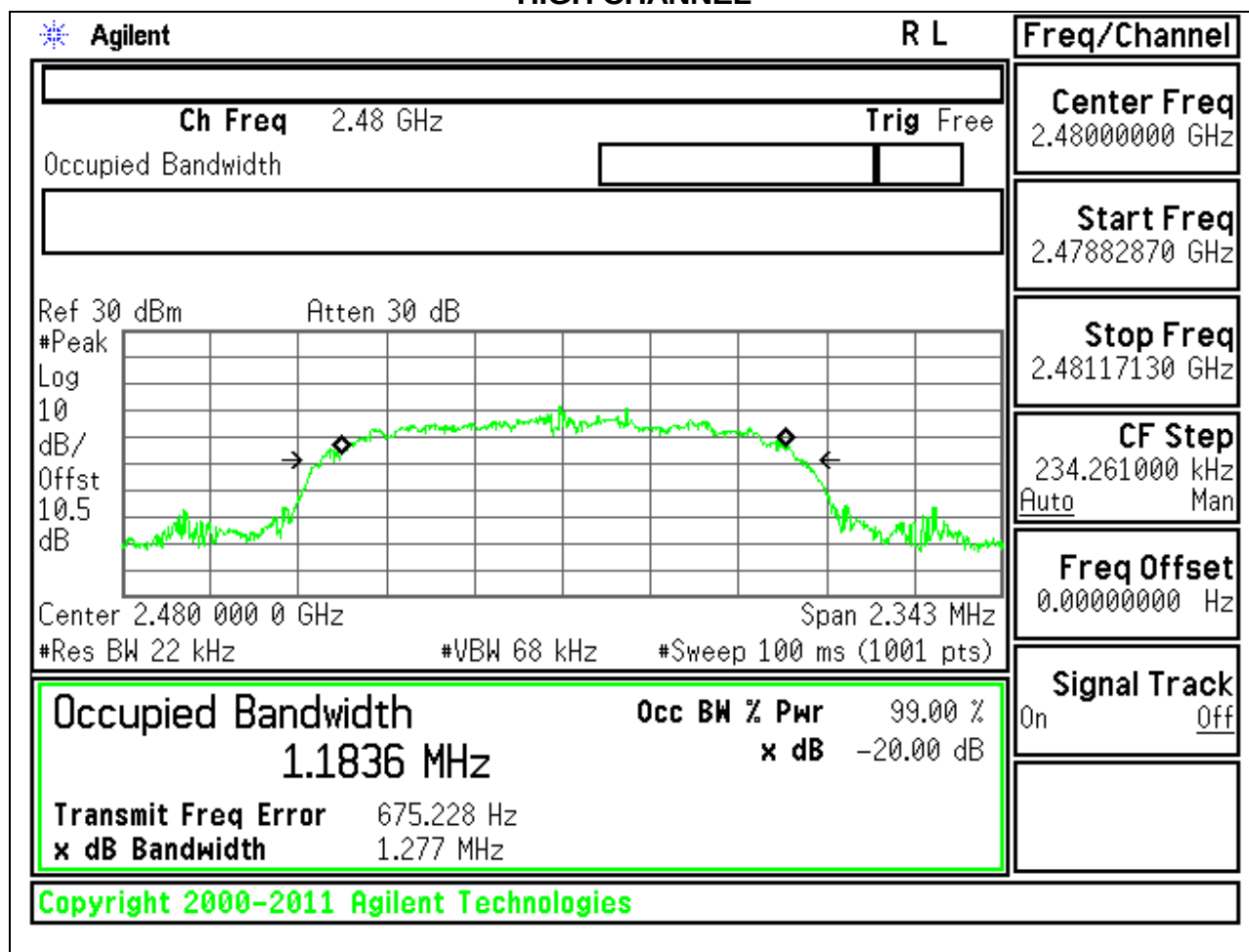
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.2. HOPPING FREQUENCY SEPARATION

LIMIT

FCC §15.247 (a) (1)

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.

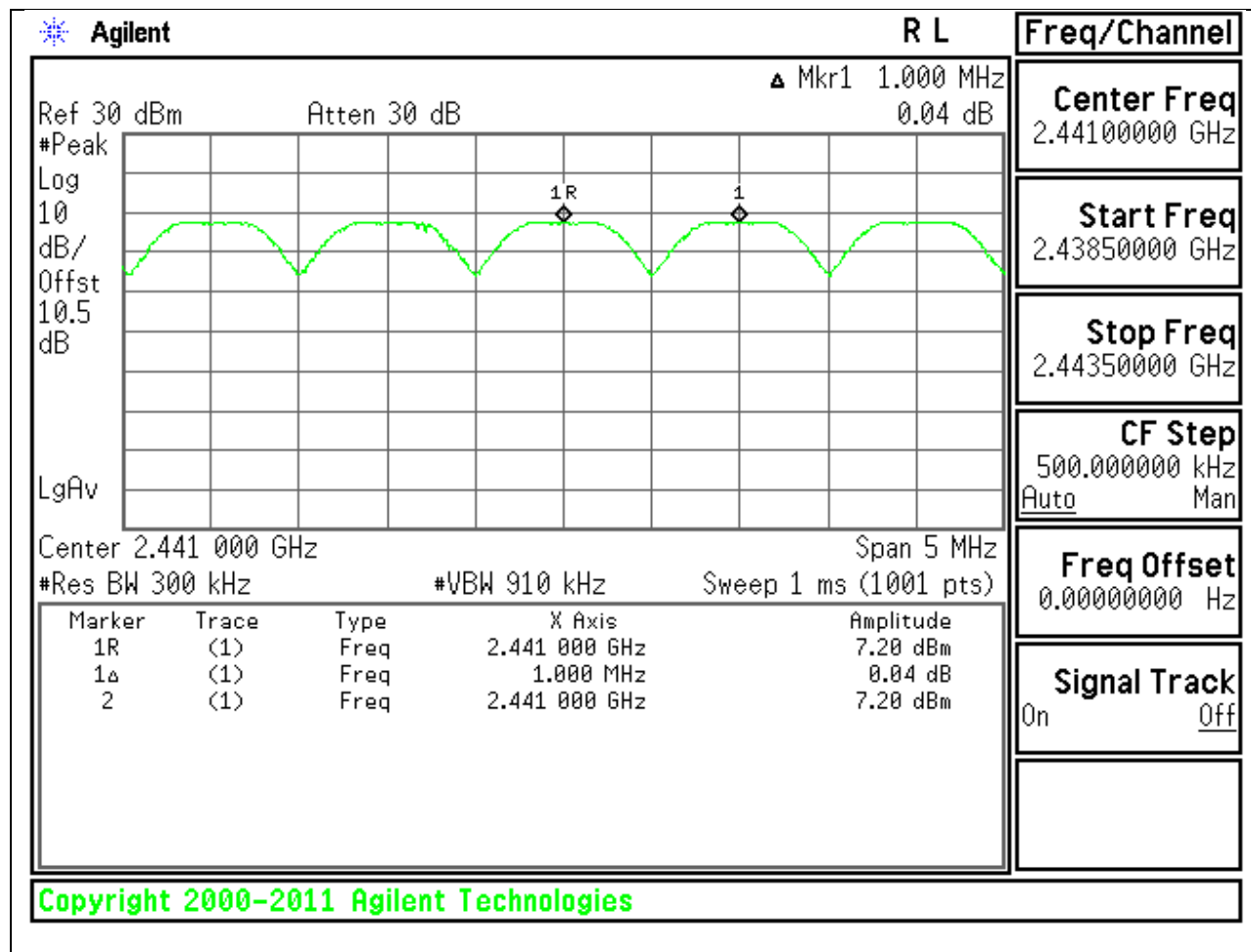
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

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

TEST PROCEDURE

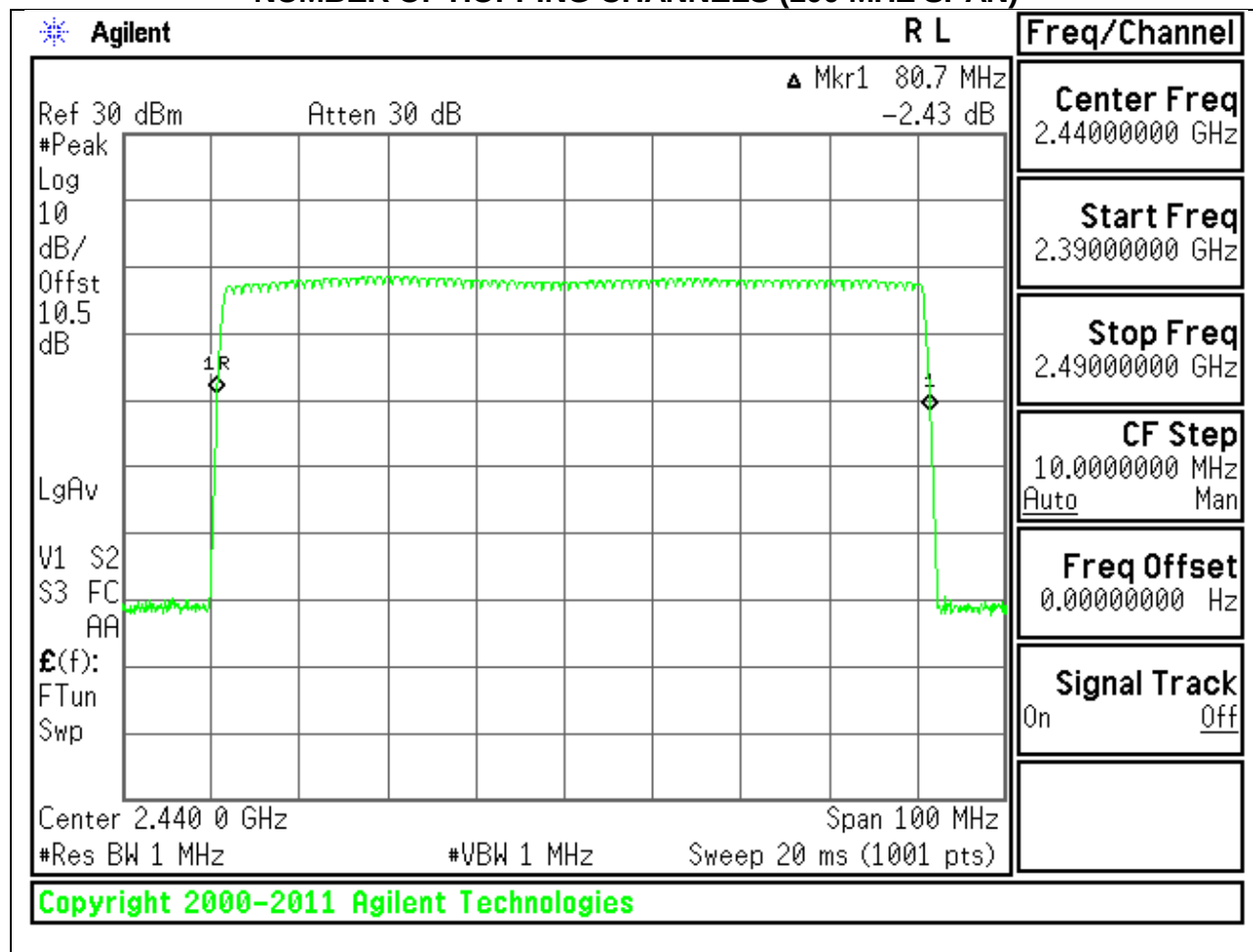
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

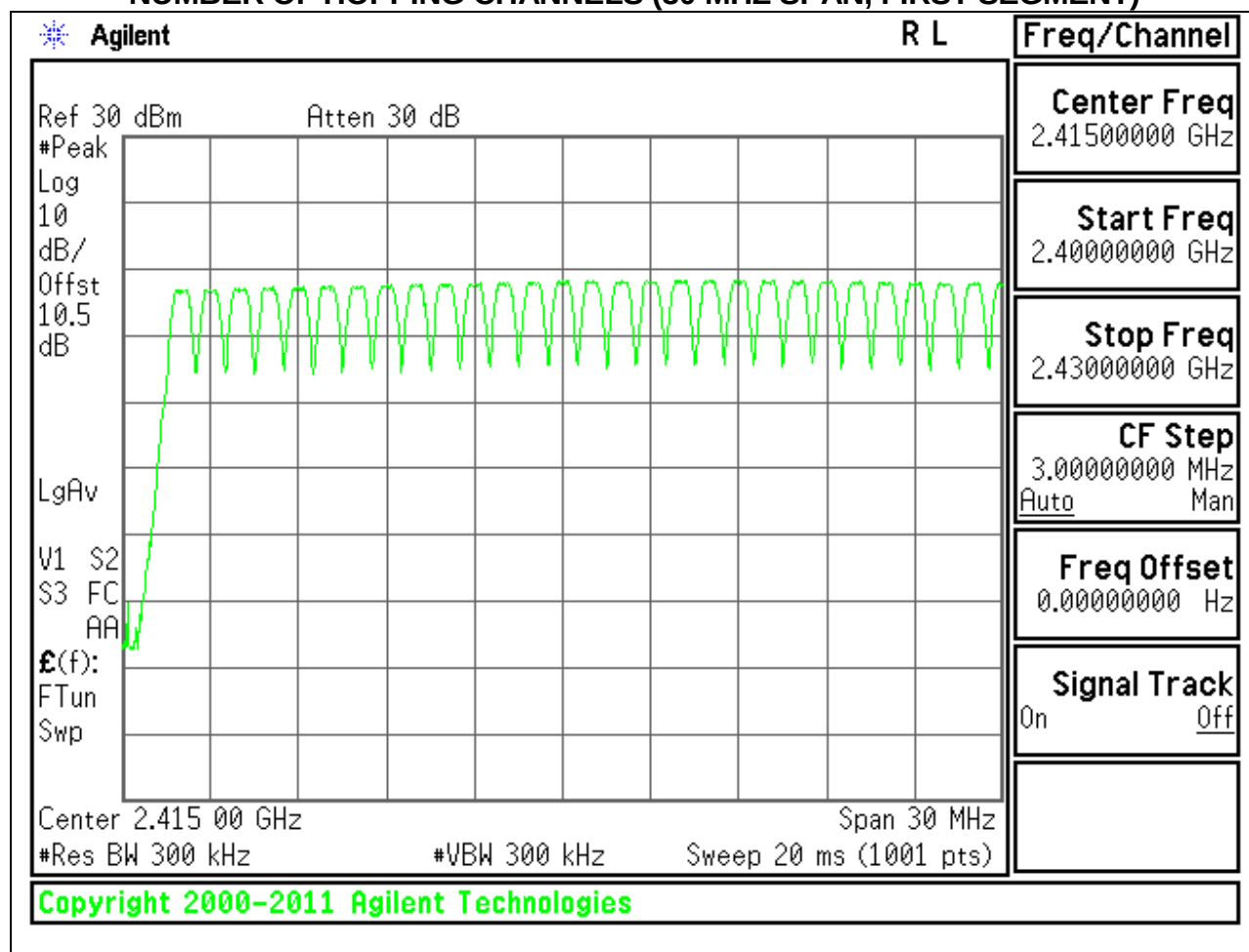
Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS PLOTS

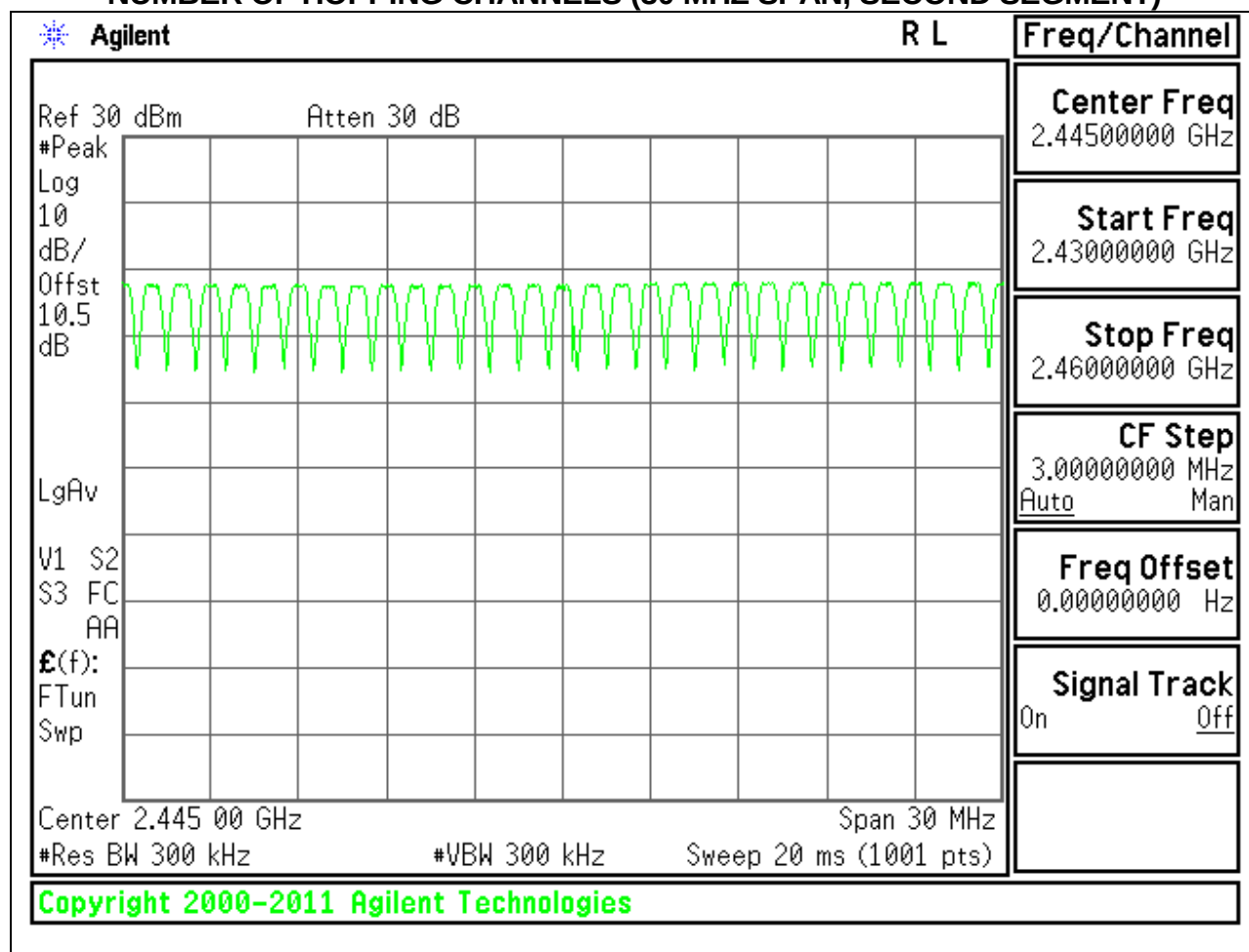
NUMBER OF HOPPING CHANNELS (100 MHZ SPAN)



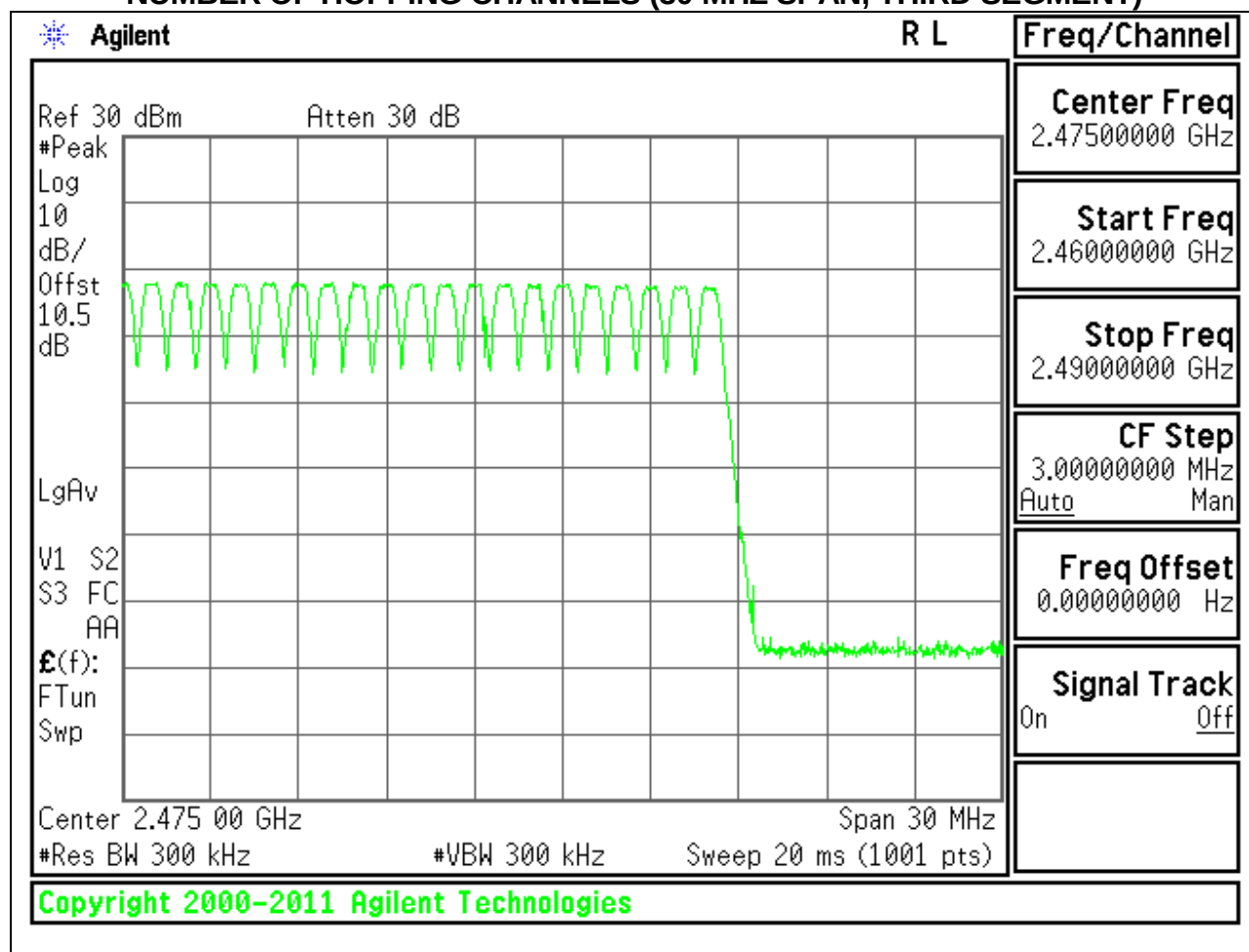
NUMBER OF HOPPING CHANNELS (30 MHZ SPAN, FIRST SEGMENT)



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)

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.

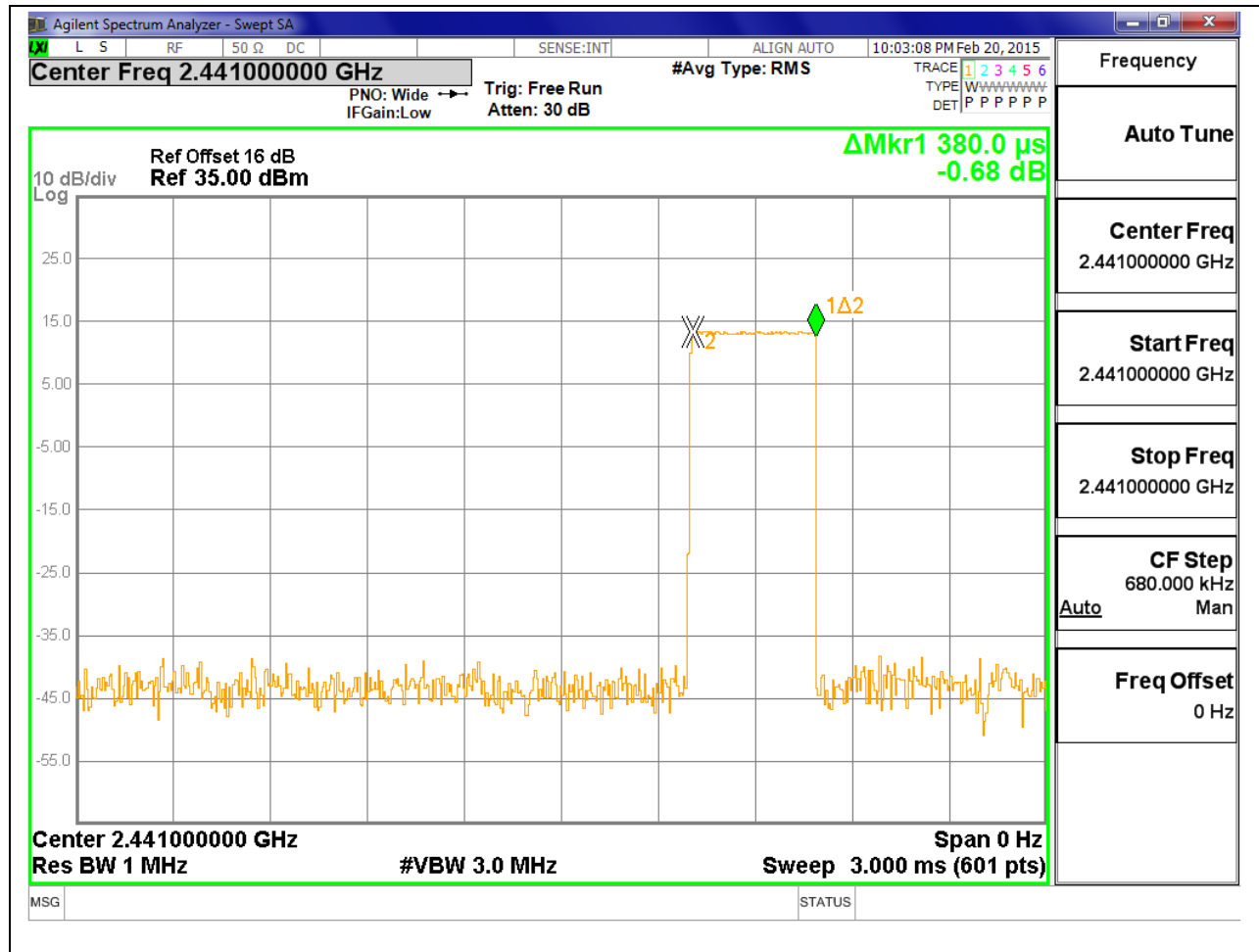
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to 10 * (# of pulses in 3.16 s) * pulse width.

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

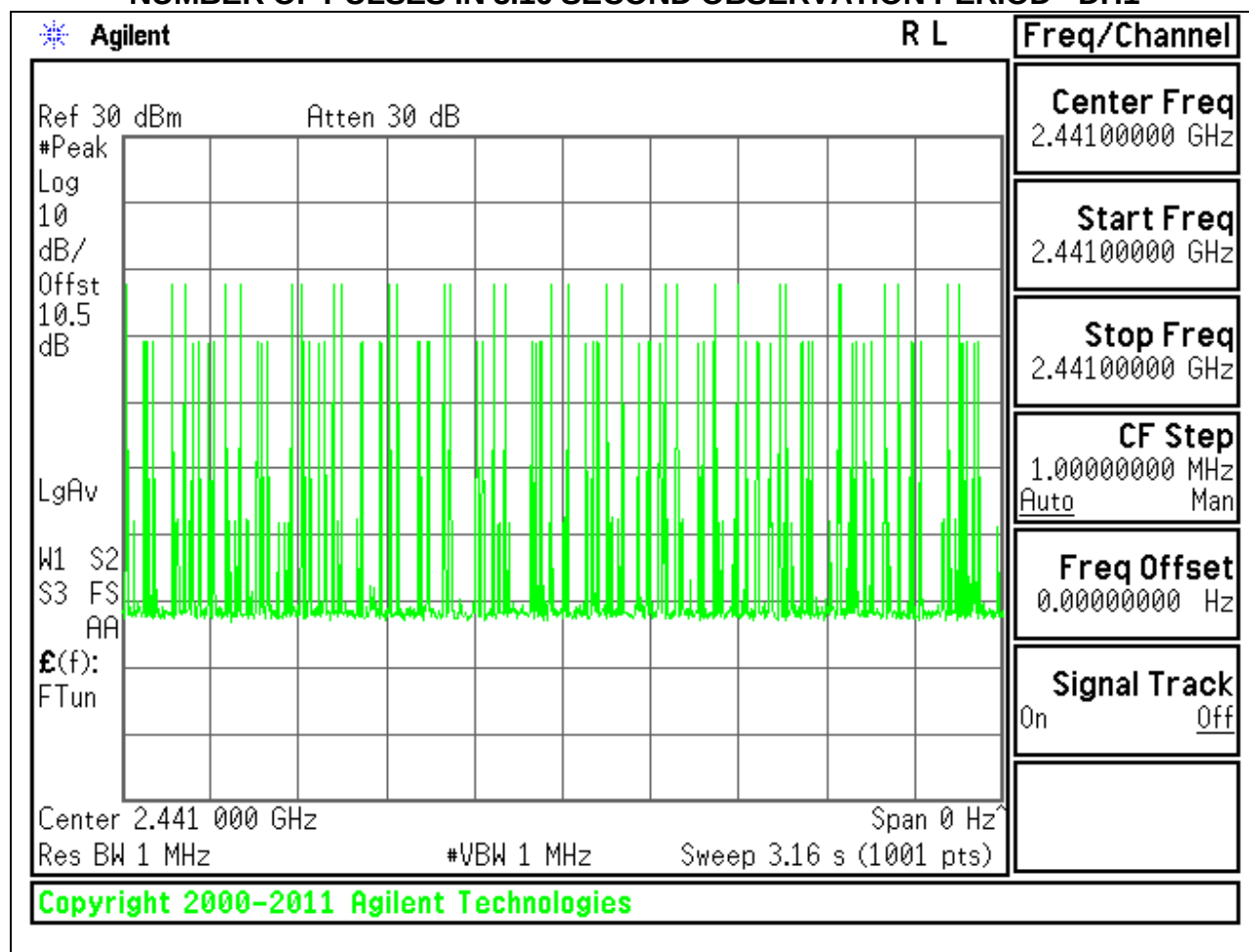
RESULTS

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	0.38	28	0.11	0.4	-0.29
DH3	1.63	14	0.23	0.4	-0.17
DH5	2.89	8	0.23	0.4	-0.17
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	0.38	7	0.03	0.4	-0.37
DH3	1.63	3.5	0.06	0.4	-0.34
DH5	2.89	2	0.06	0.4	-0.34

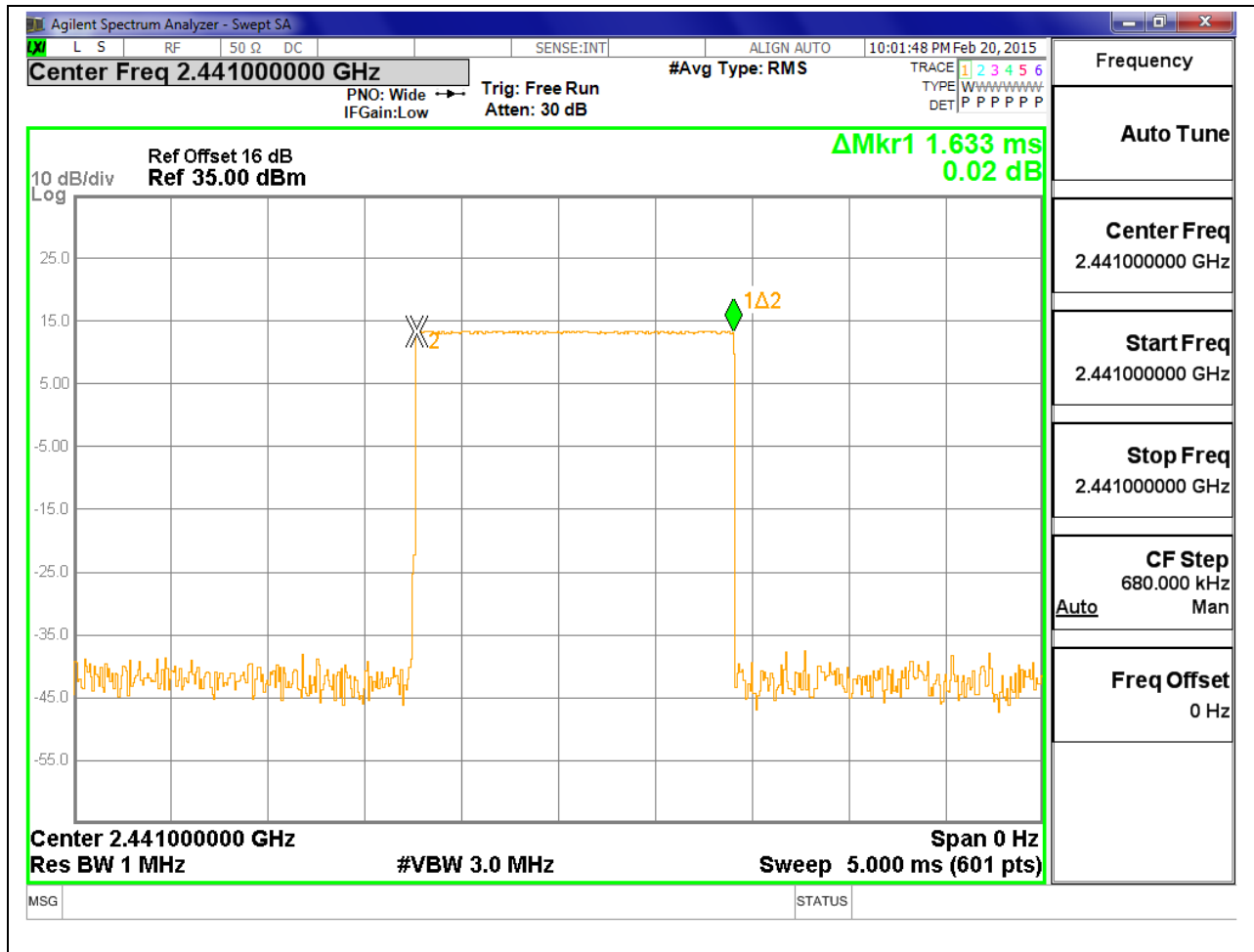
PULSE WIDTH - DH1



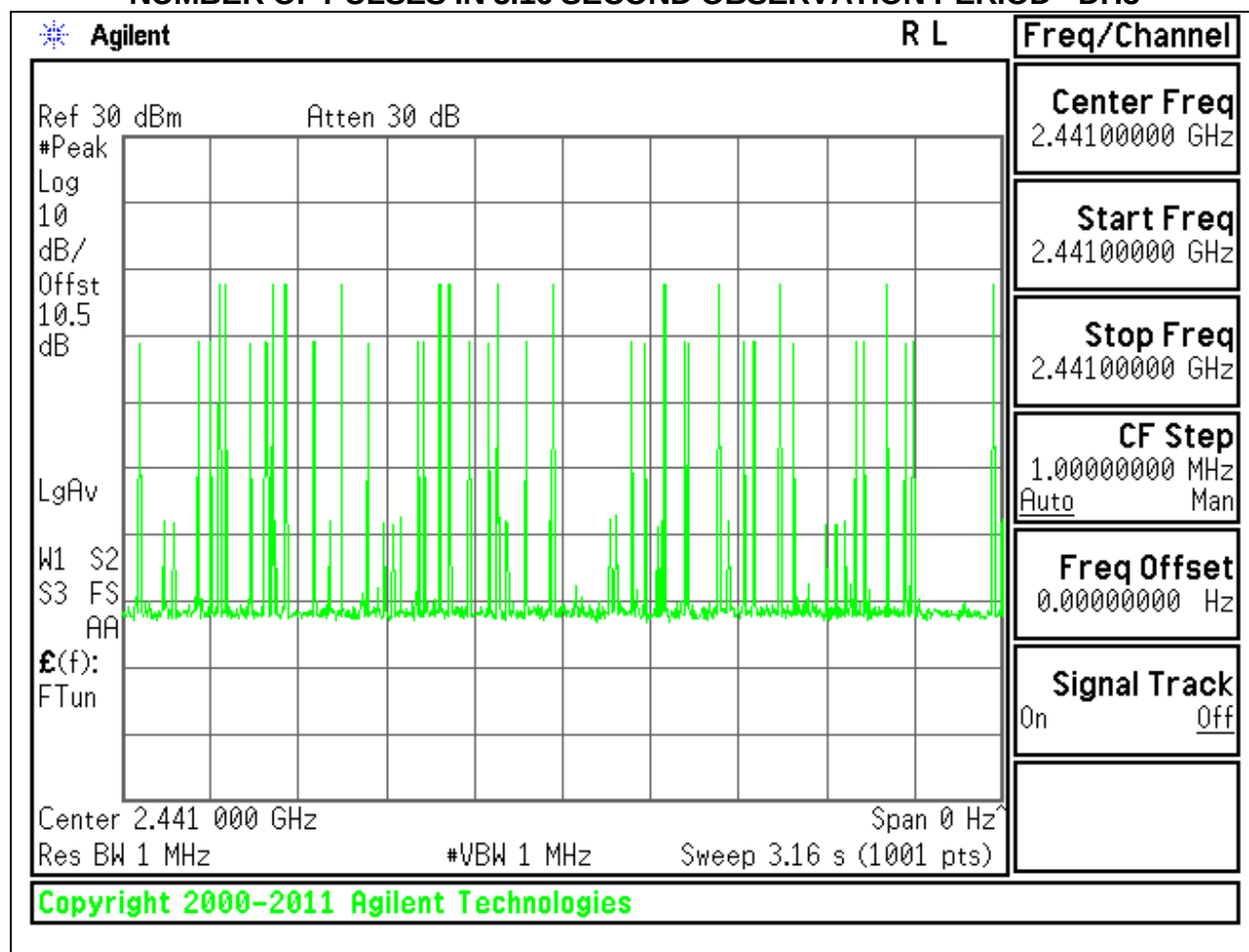
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



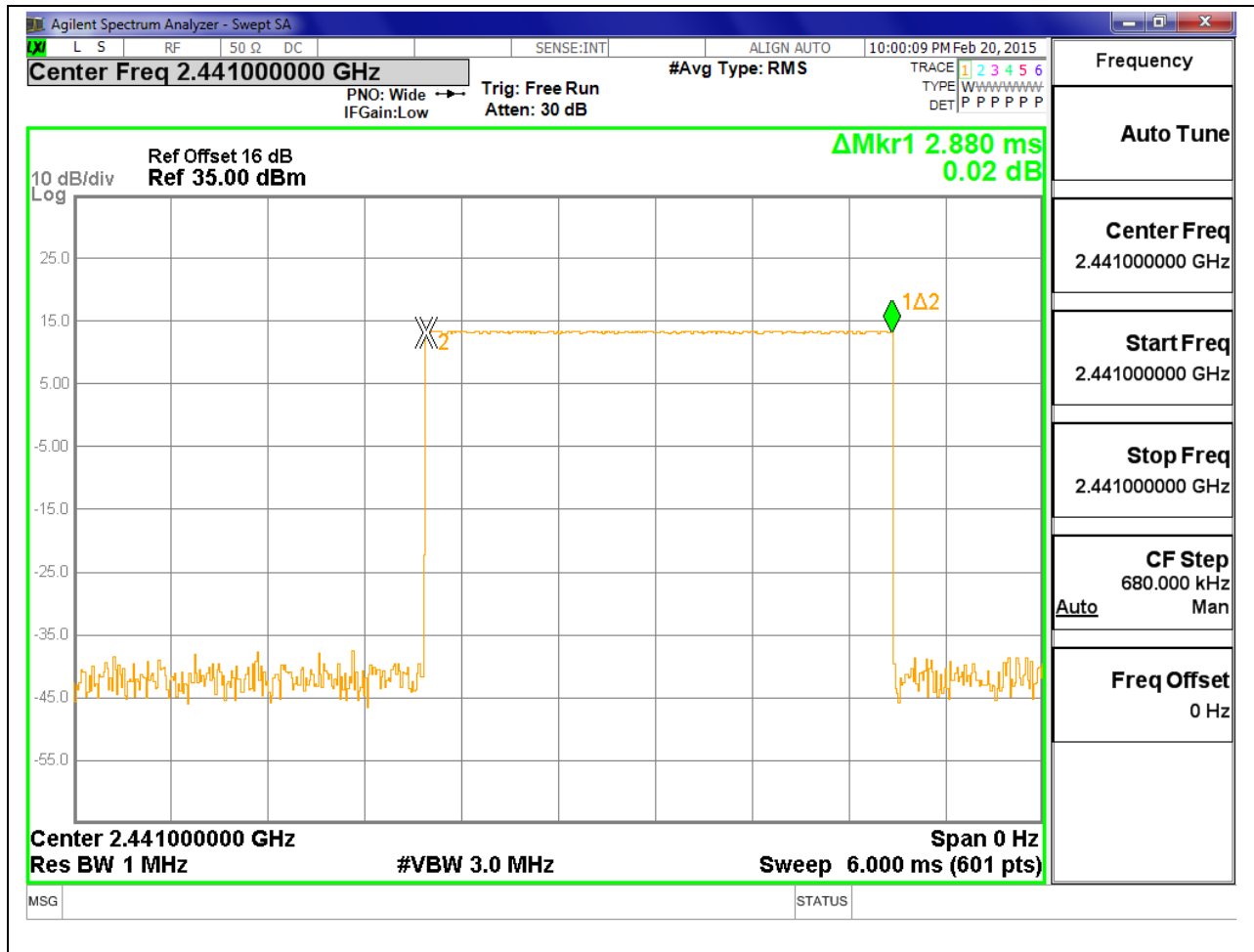
PULSE WIDTH - DH3



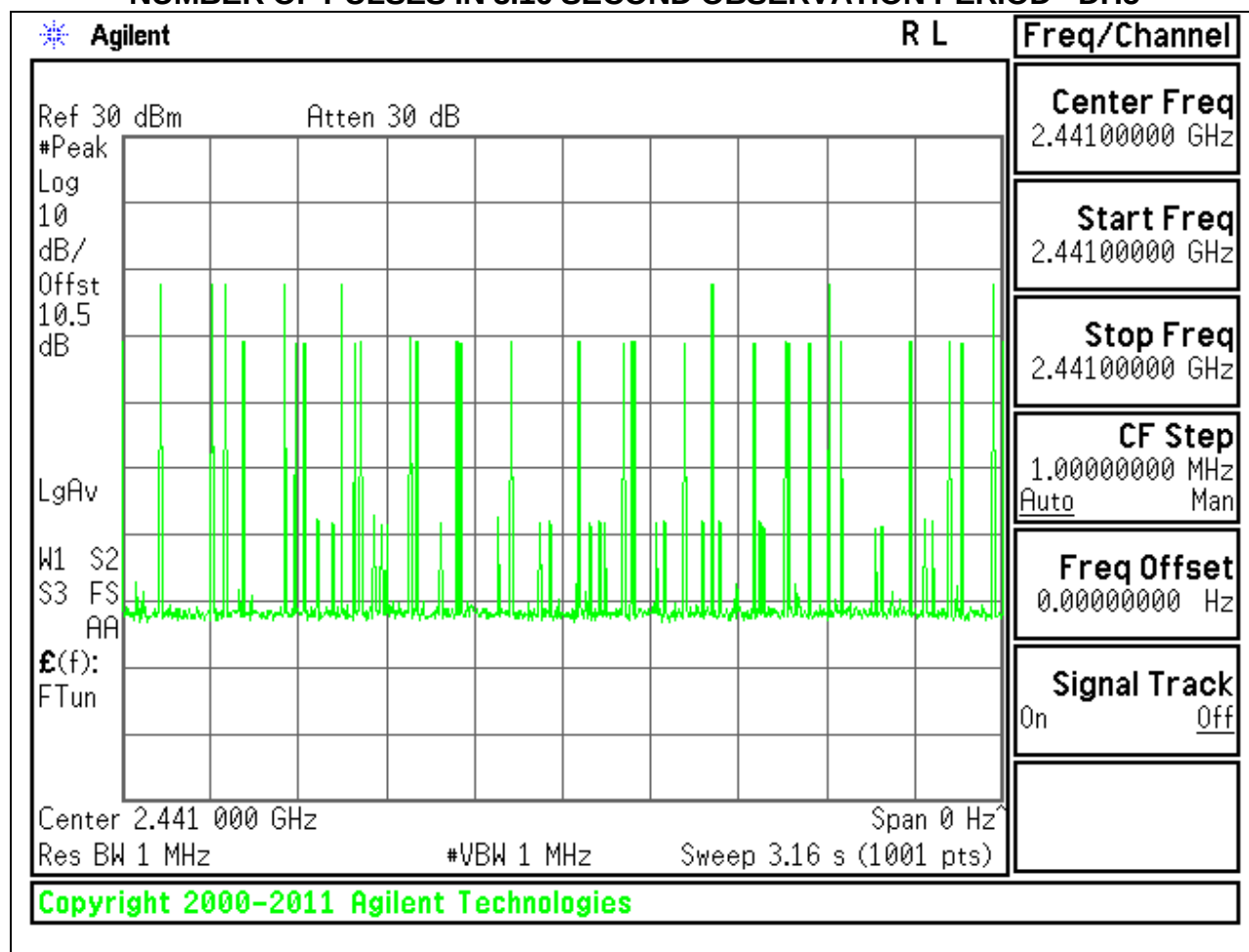
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH3



PULSE WIDTH - DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH5



8.5. OUTPUT POWER

LIMIT

§15.247 (b) (1)

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

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	7.32	21	-13.68
Middle	2441	8.03	21	-12.97
High	2480	7.73	21	-13.27
Worst		8.03		-12.97

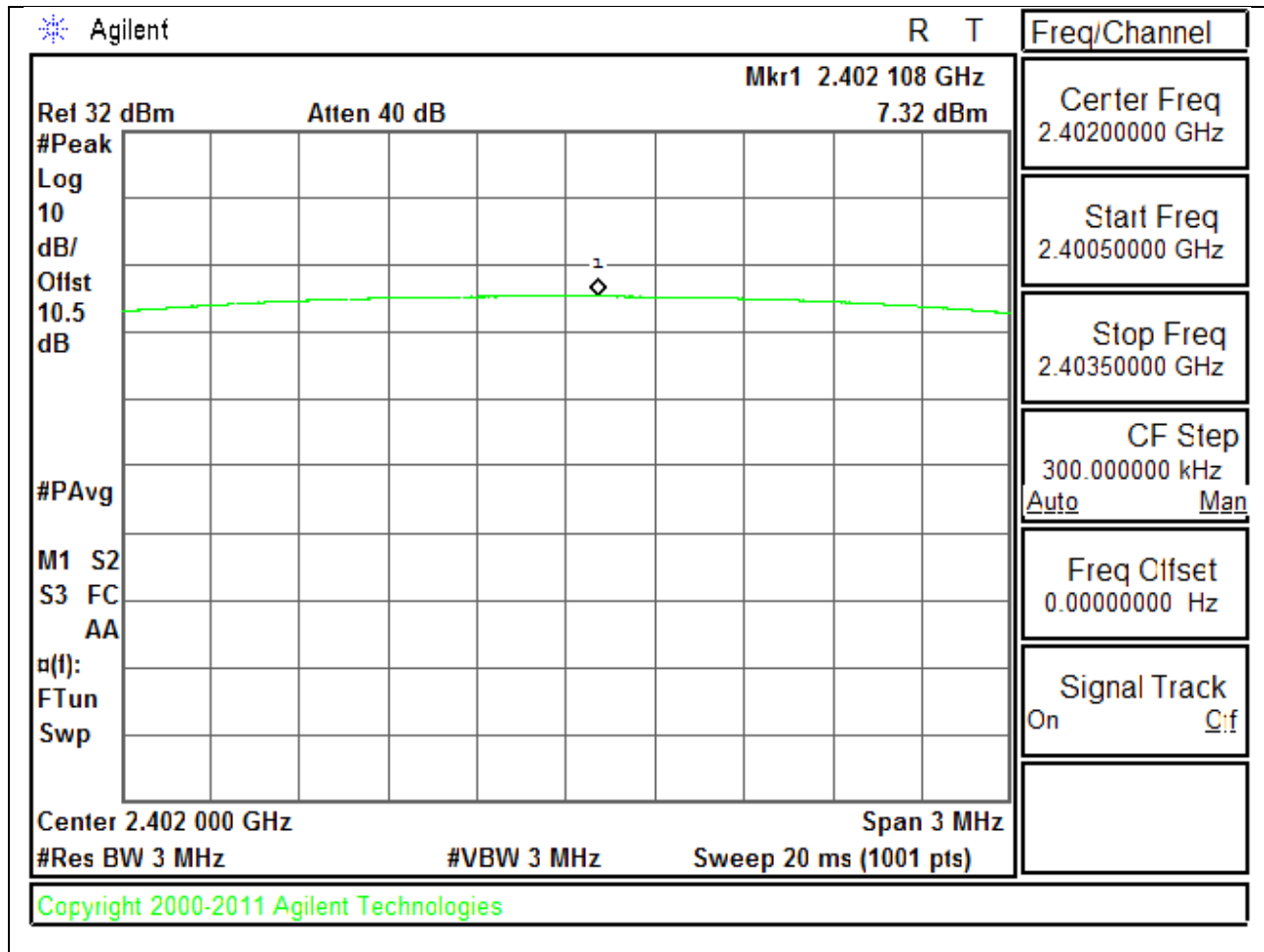
8.5.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	7.65	21	-13.35
Middle	2441	8.37	21	-12.63
High	2480	8.07	21	-12.93
Worst		8.37		-12.63

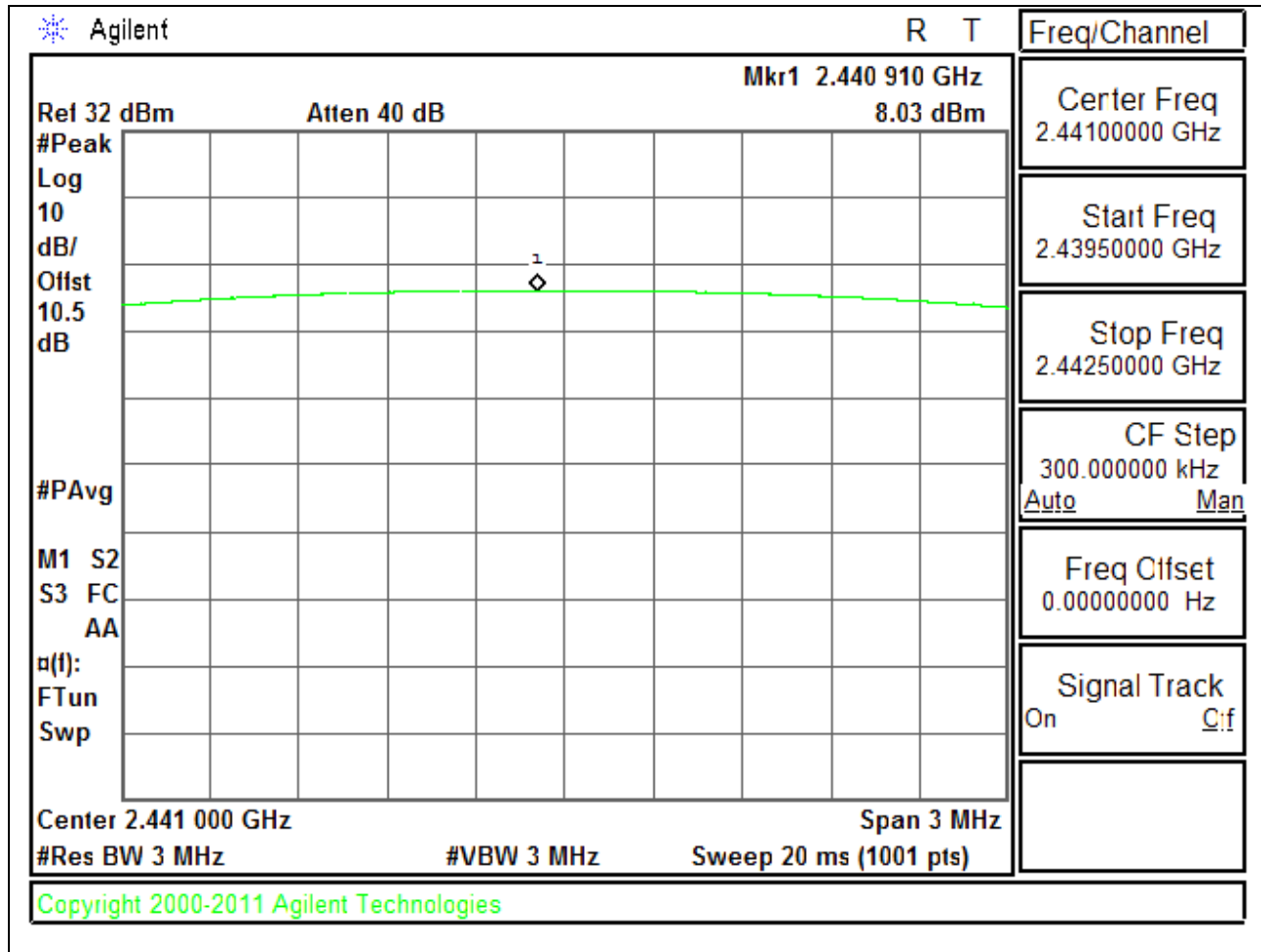
8.5.3. OUTPUT POWER PLOTS

GFSK OUTPUT POWER

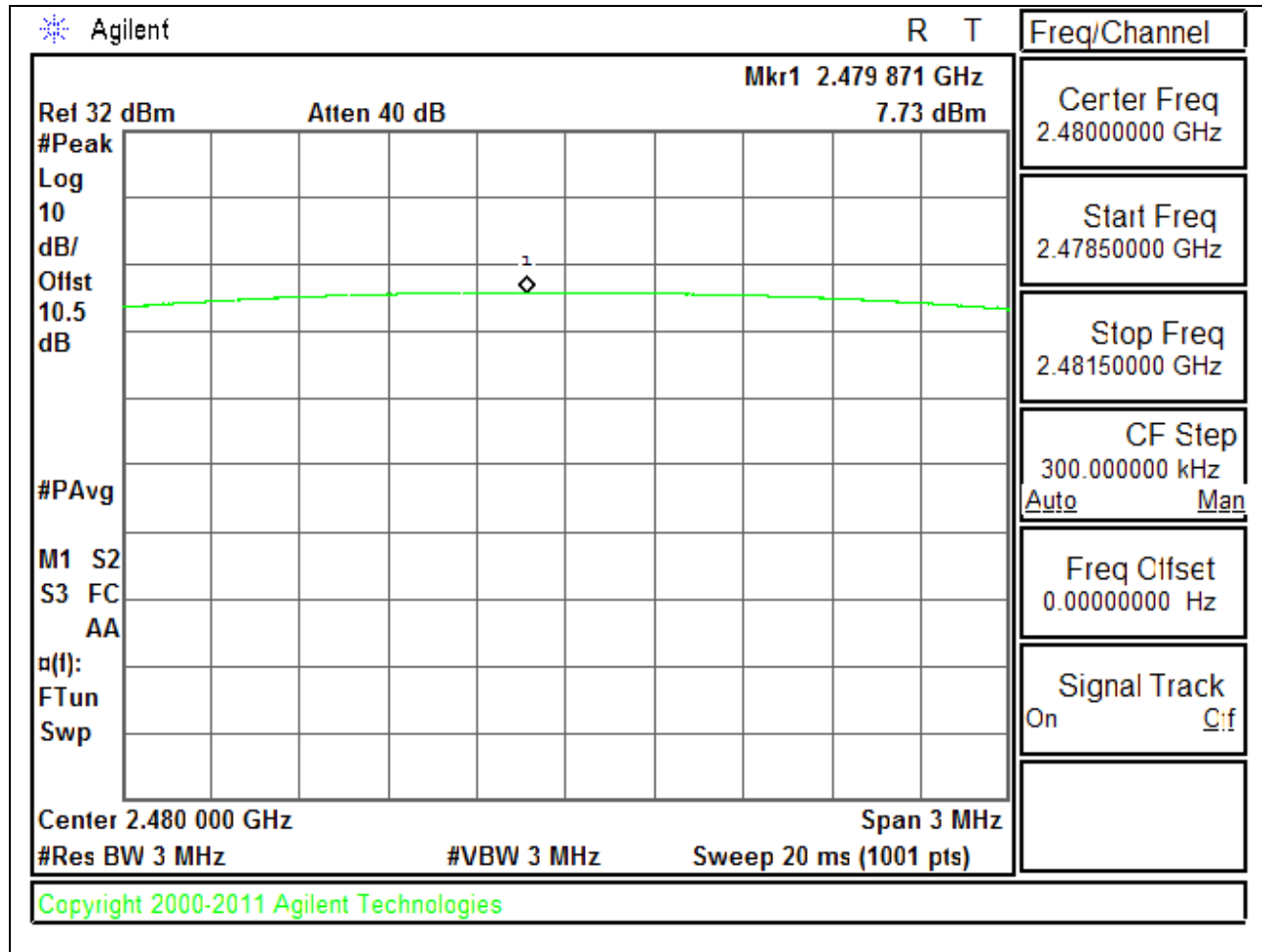
LOW CHANNEL



MID CHANNEL

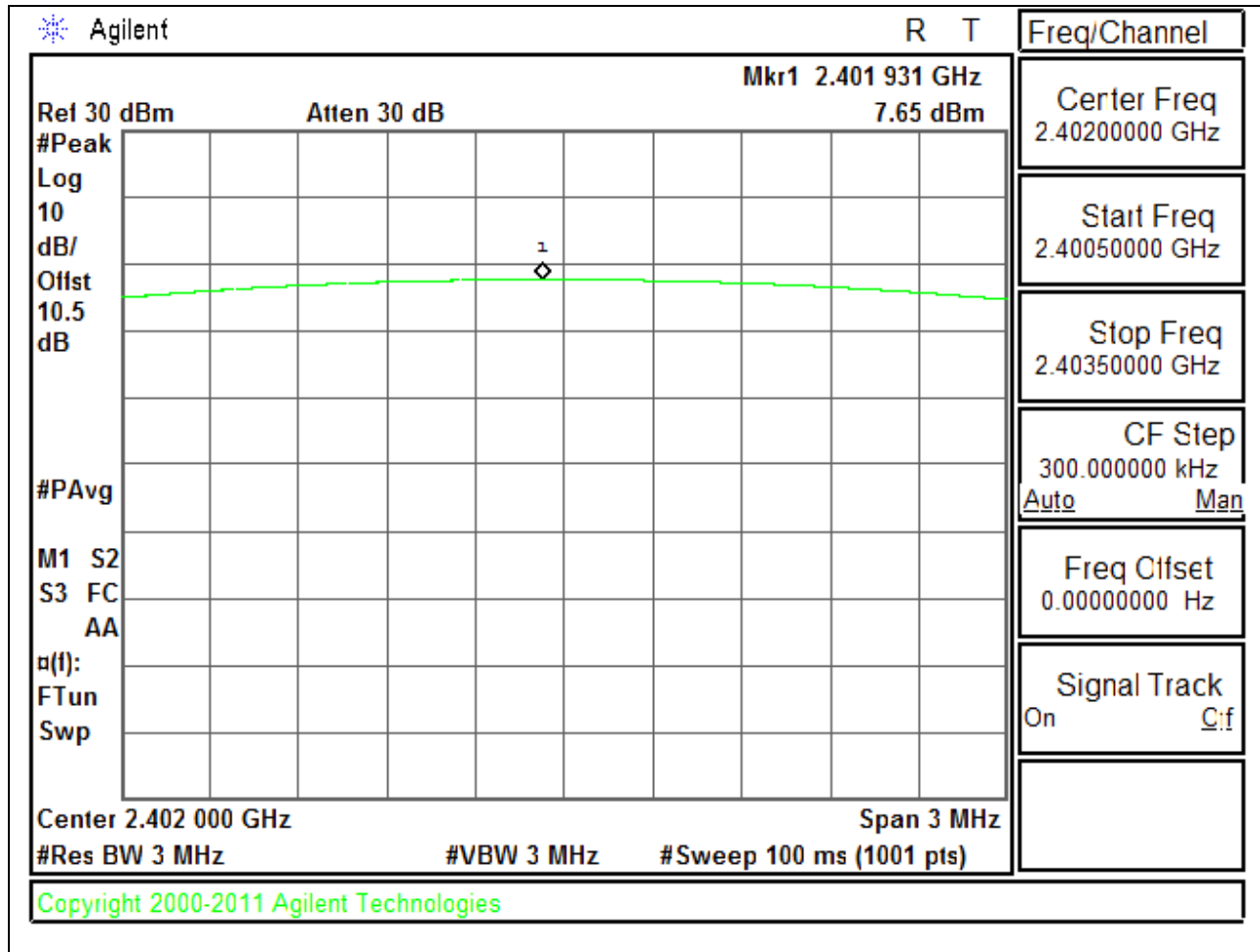


HIGH CHANNEL

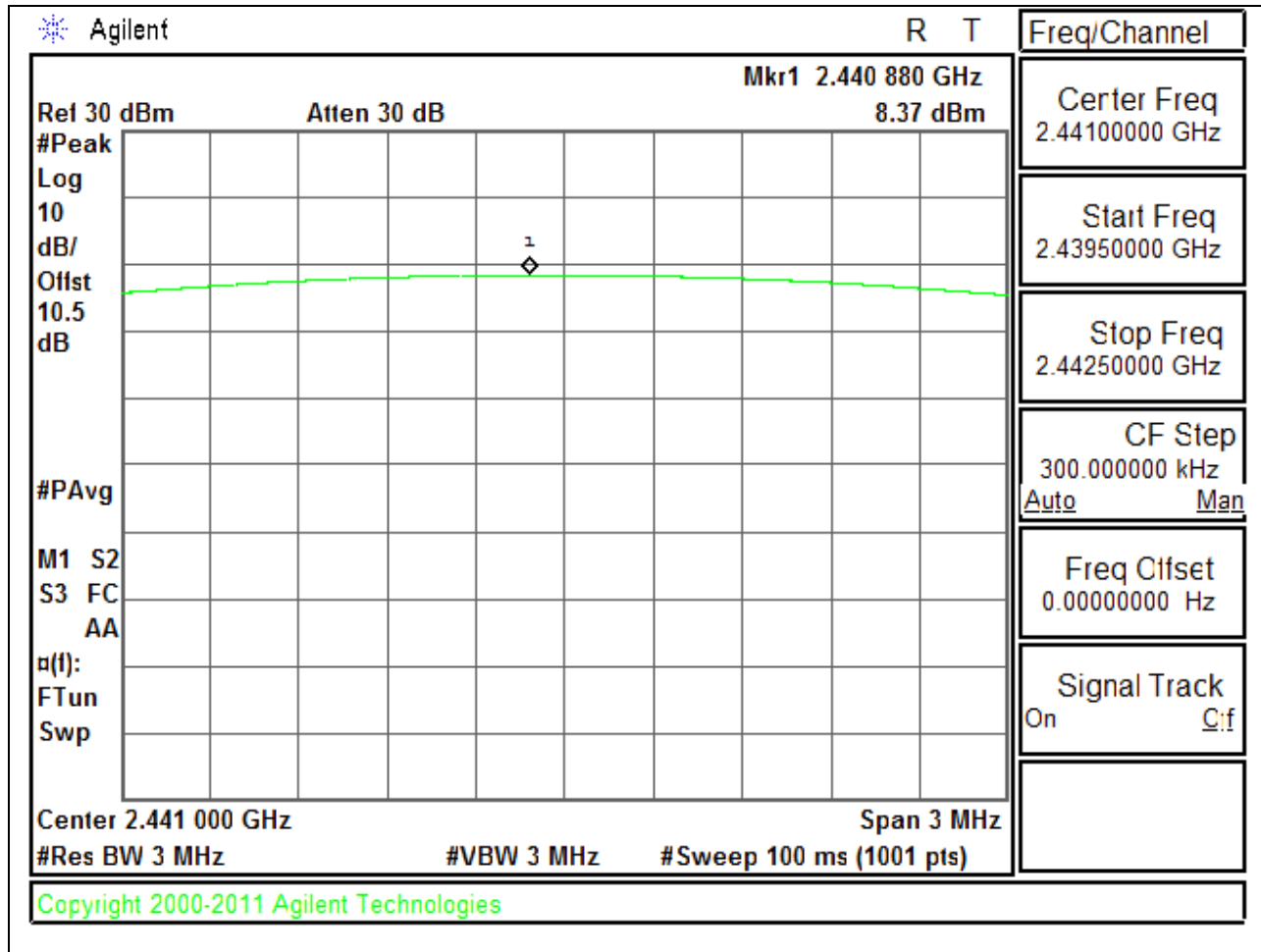


8PSK OUTPUT POWER

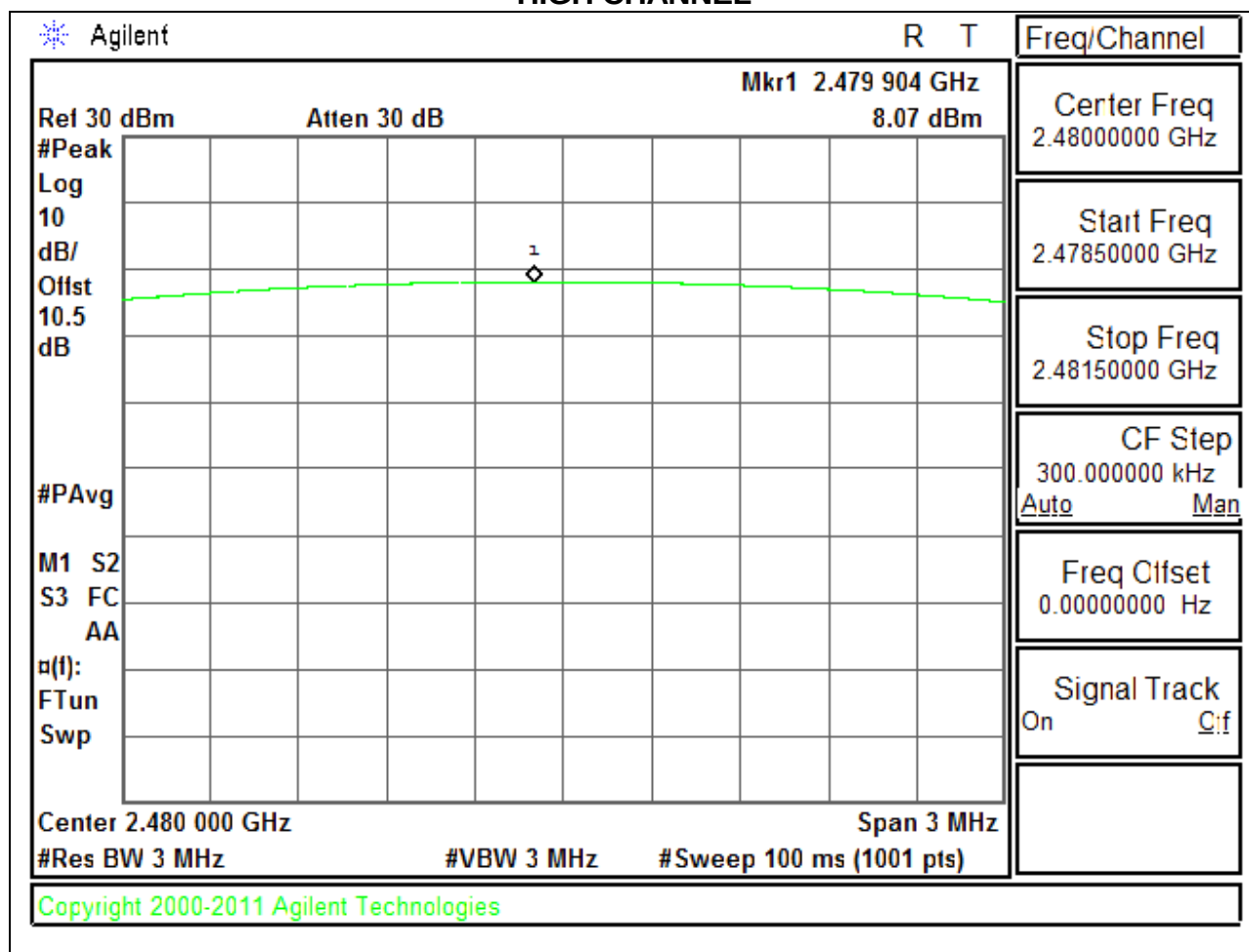
LOW CHANNEL



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	7.1
Middle	2441	7.9
High	2480	7.7
Worst		7.9

8.6.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	4.9
Middle	2441	5.9
High	2480	5.7
Worst		5.9

8.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

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.

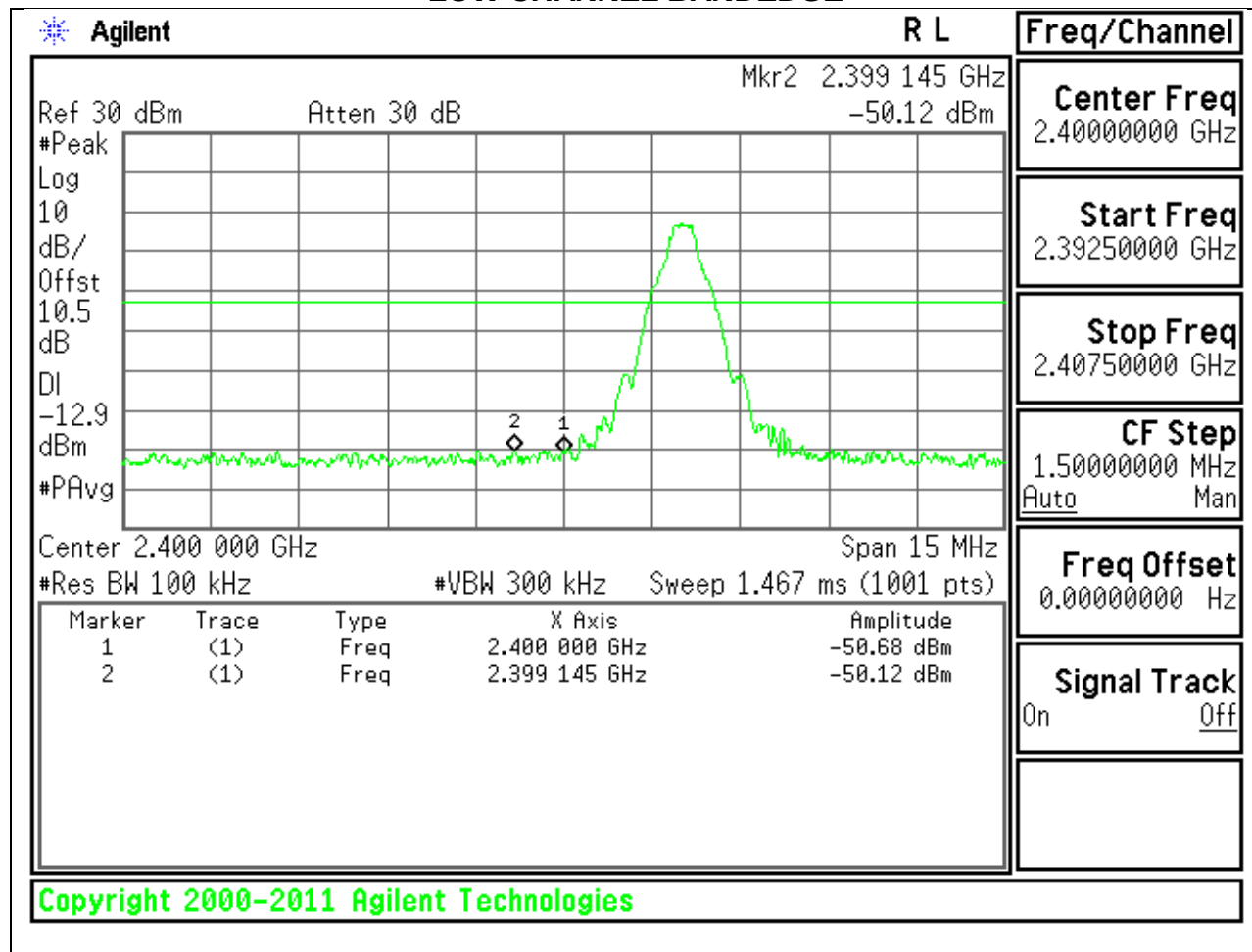
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

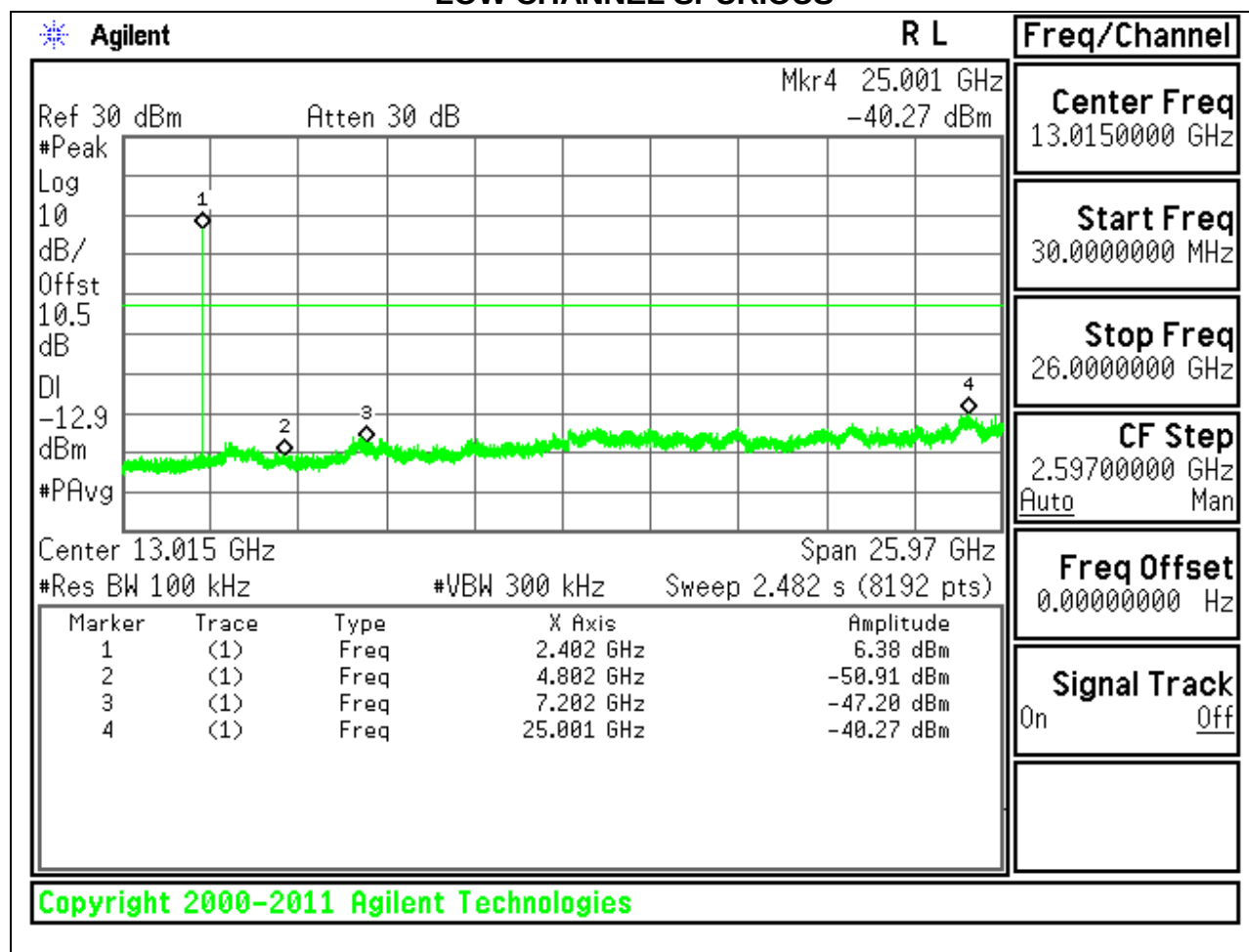
8.7.1. BASIC DATA RATE GFSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

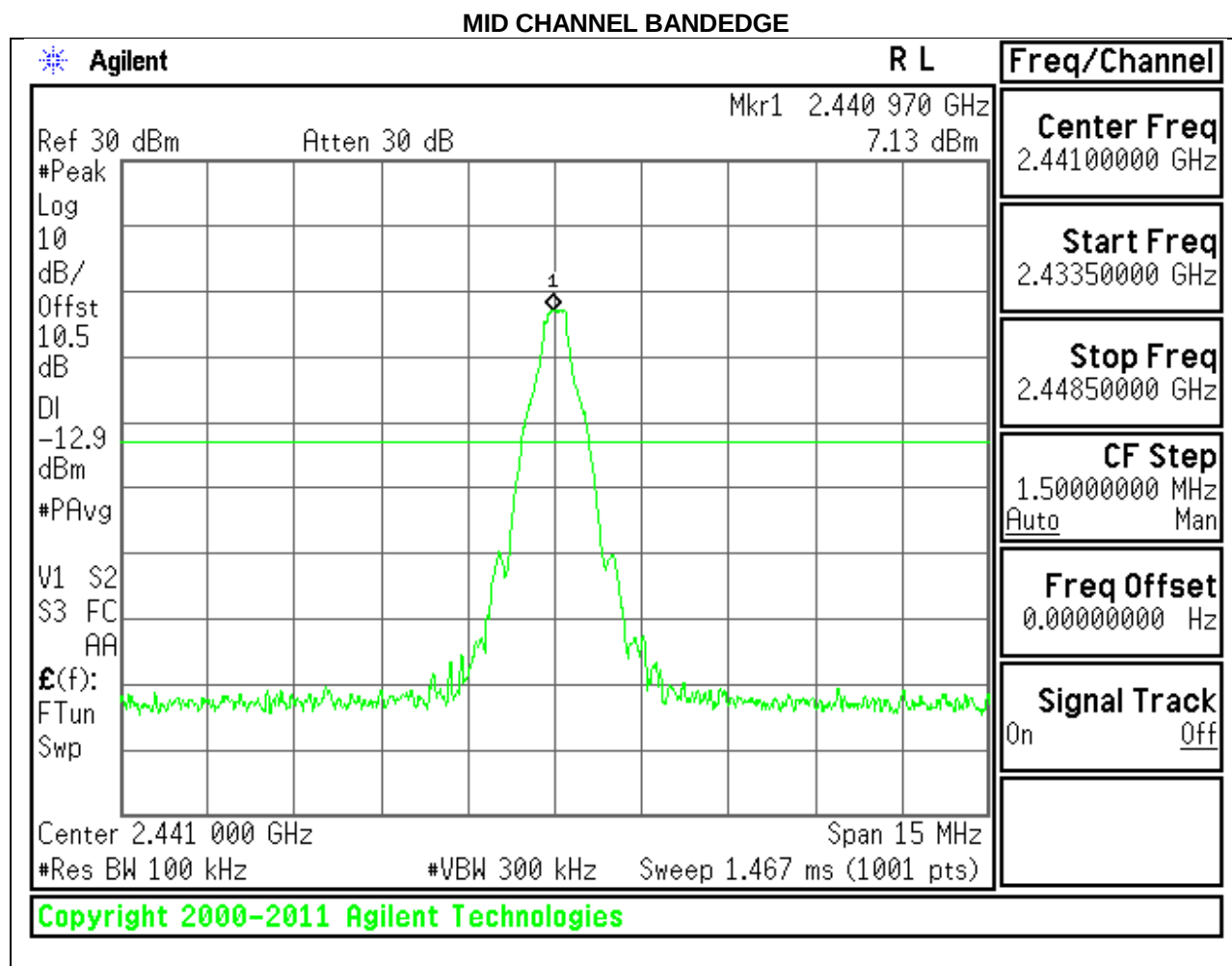
LOW CHANNEL BANDEDGE



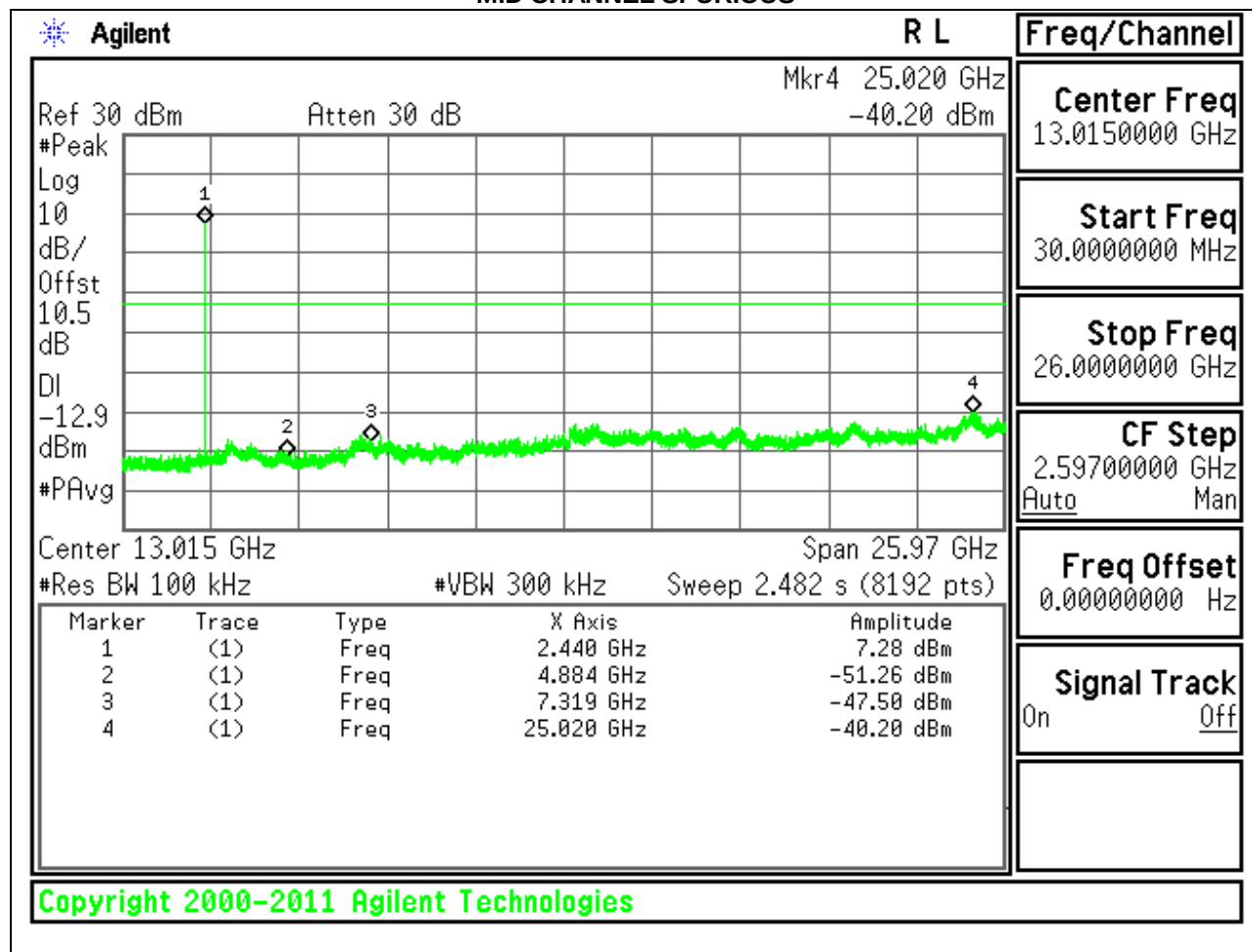
LOW CHANNEL SPURIOUS



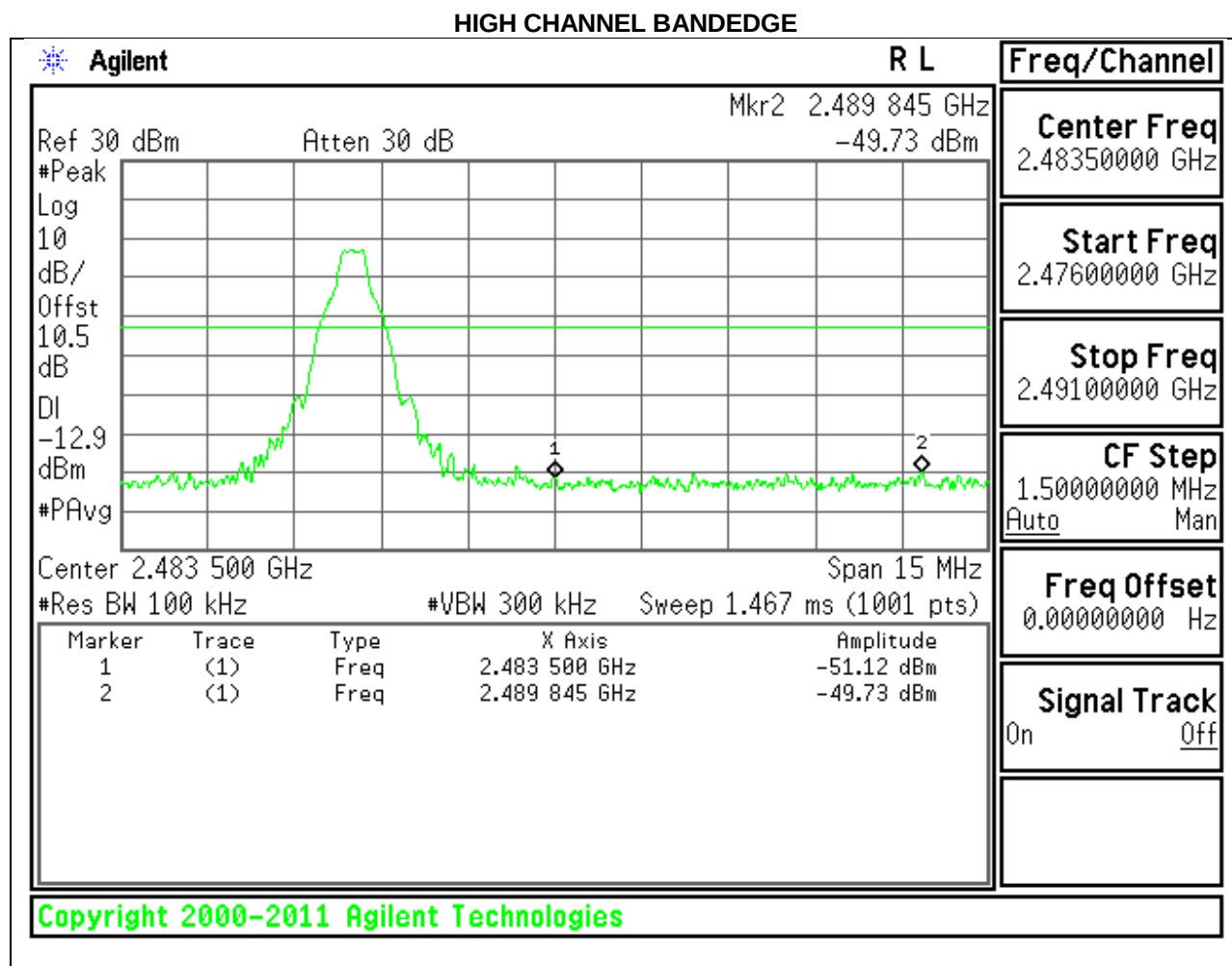
SPURIOUS EMISSIONS, MID CHANNEL



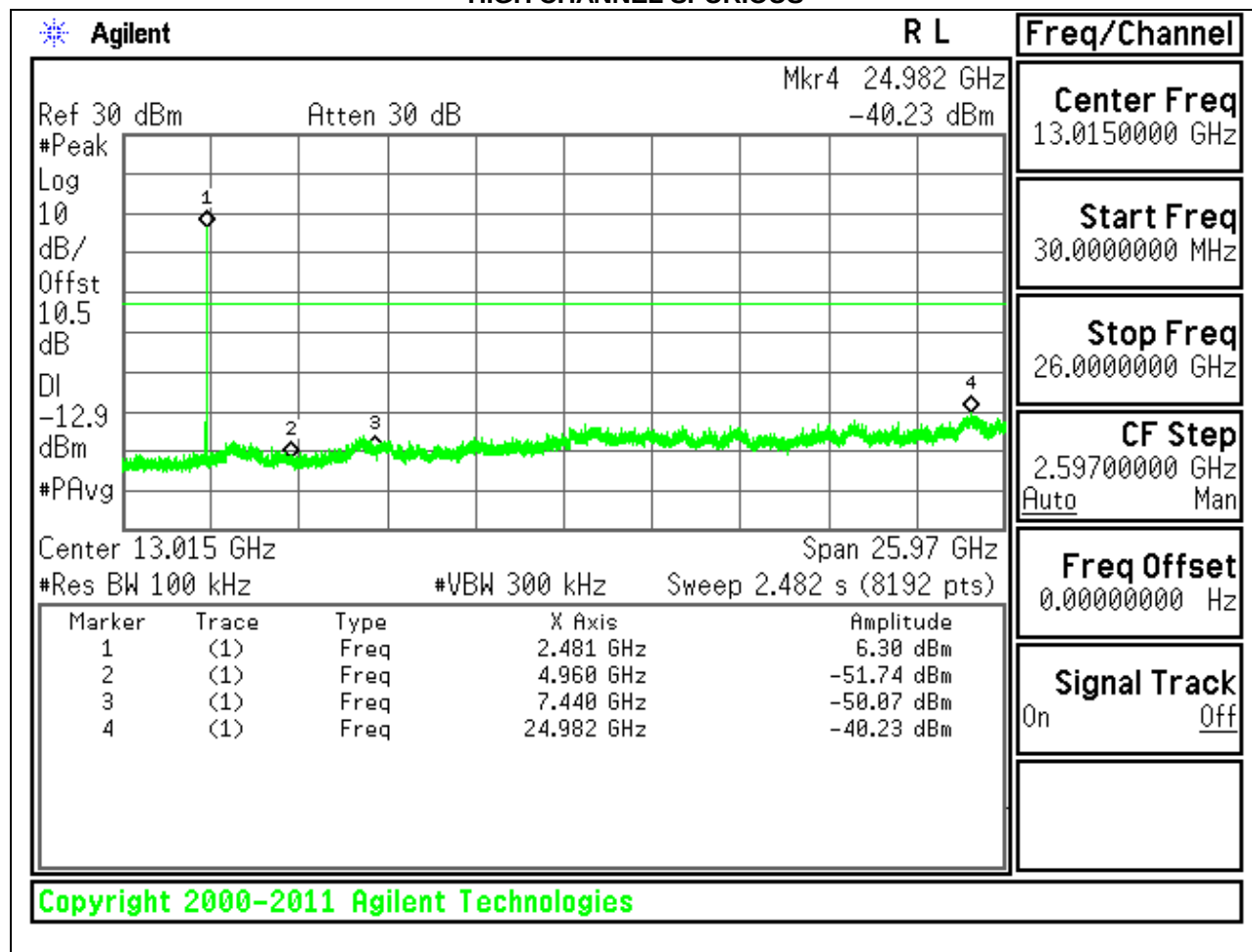
MID CHANNEL SPURIOUS



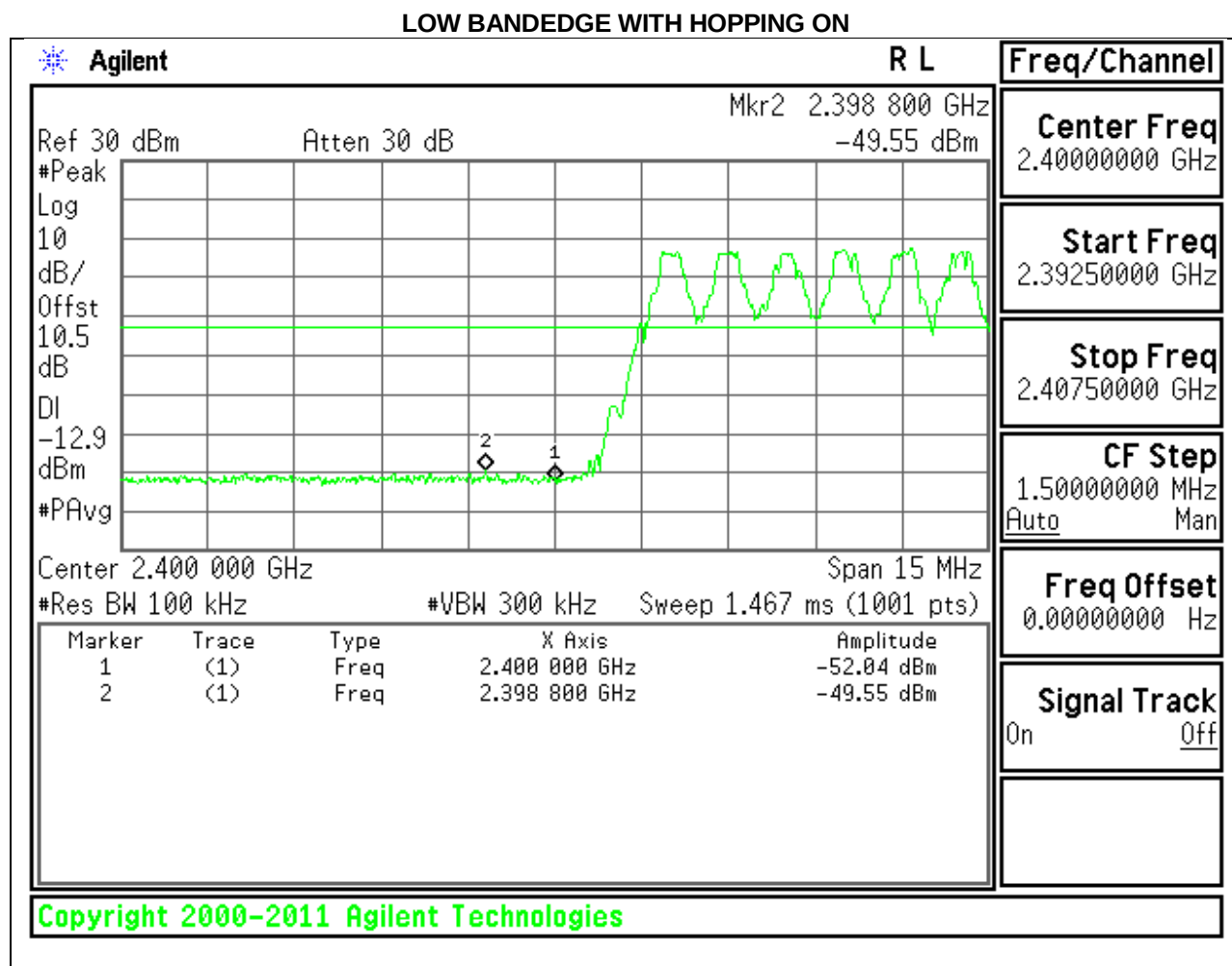
SPURIOUS EMISSIONS, HIGH CHANNEL



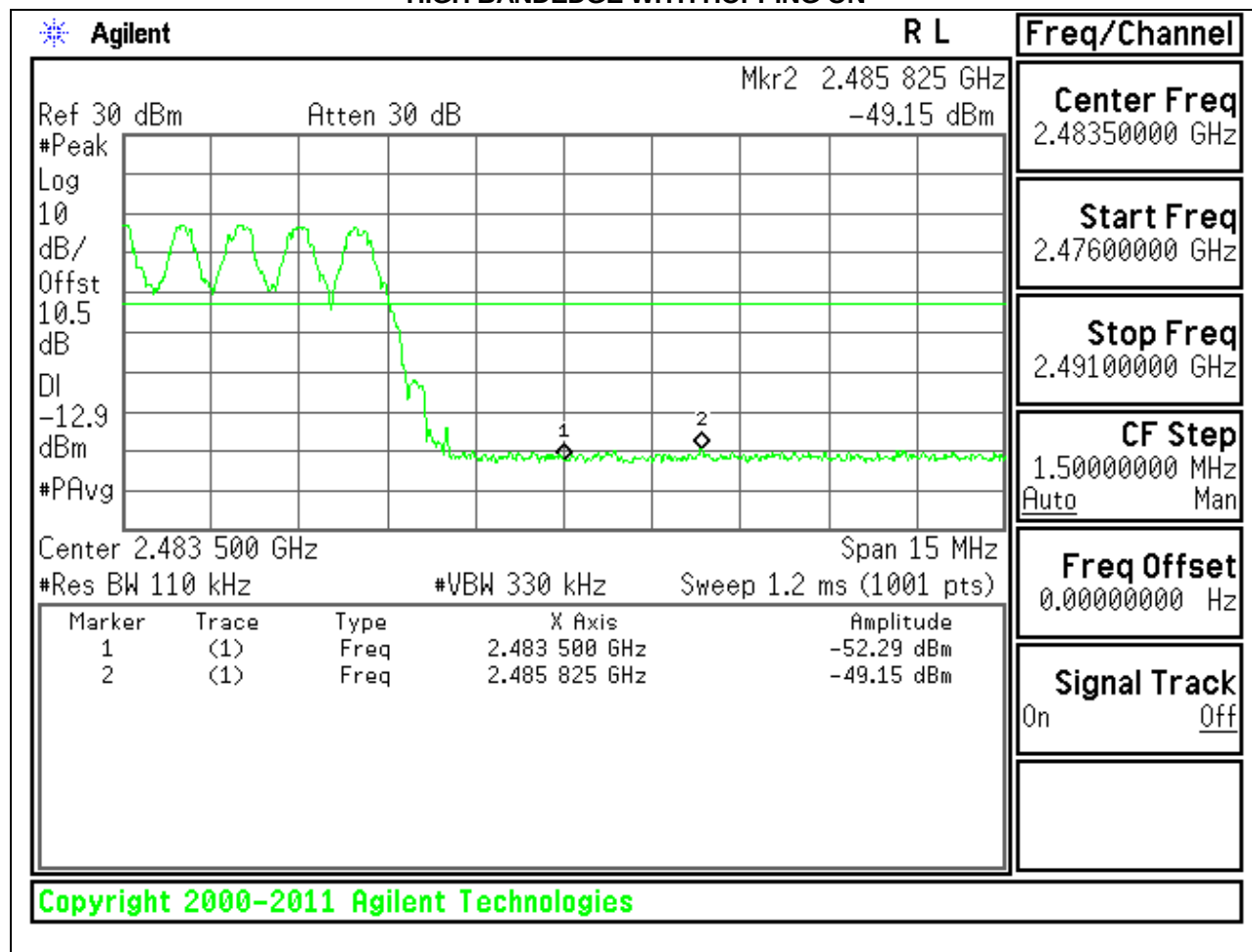
HIGH CHANNEL SPURIOUS



SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

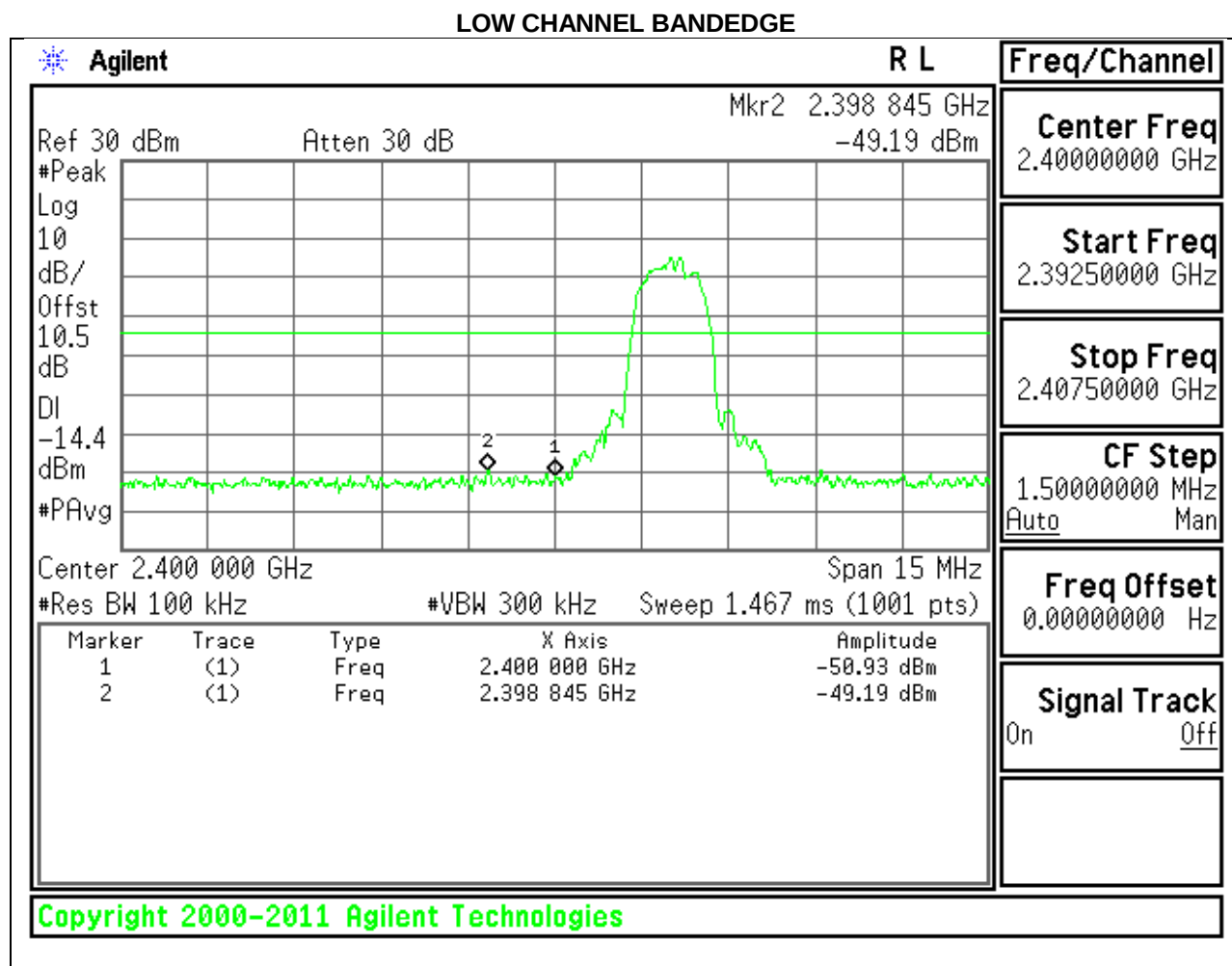


HIGH BANDEDGE WITH HOPPING ON

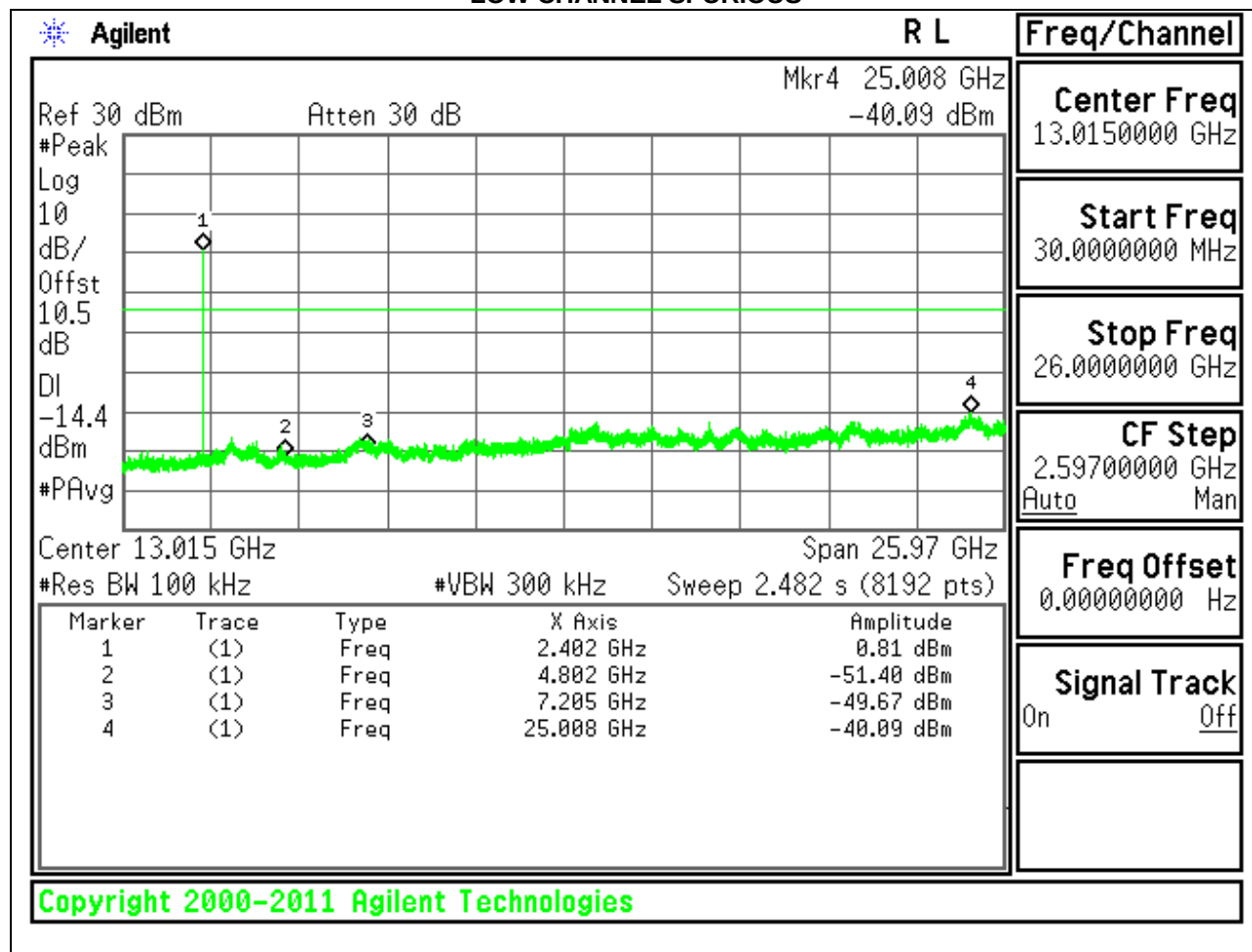


8.7.2. ENHANCED DATA RATE 8PSK MODULATION

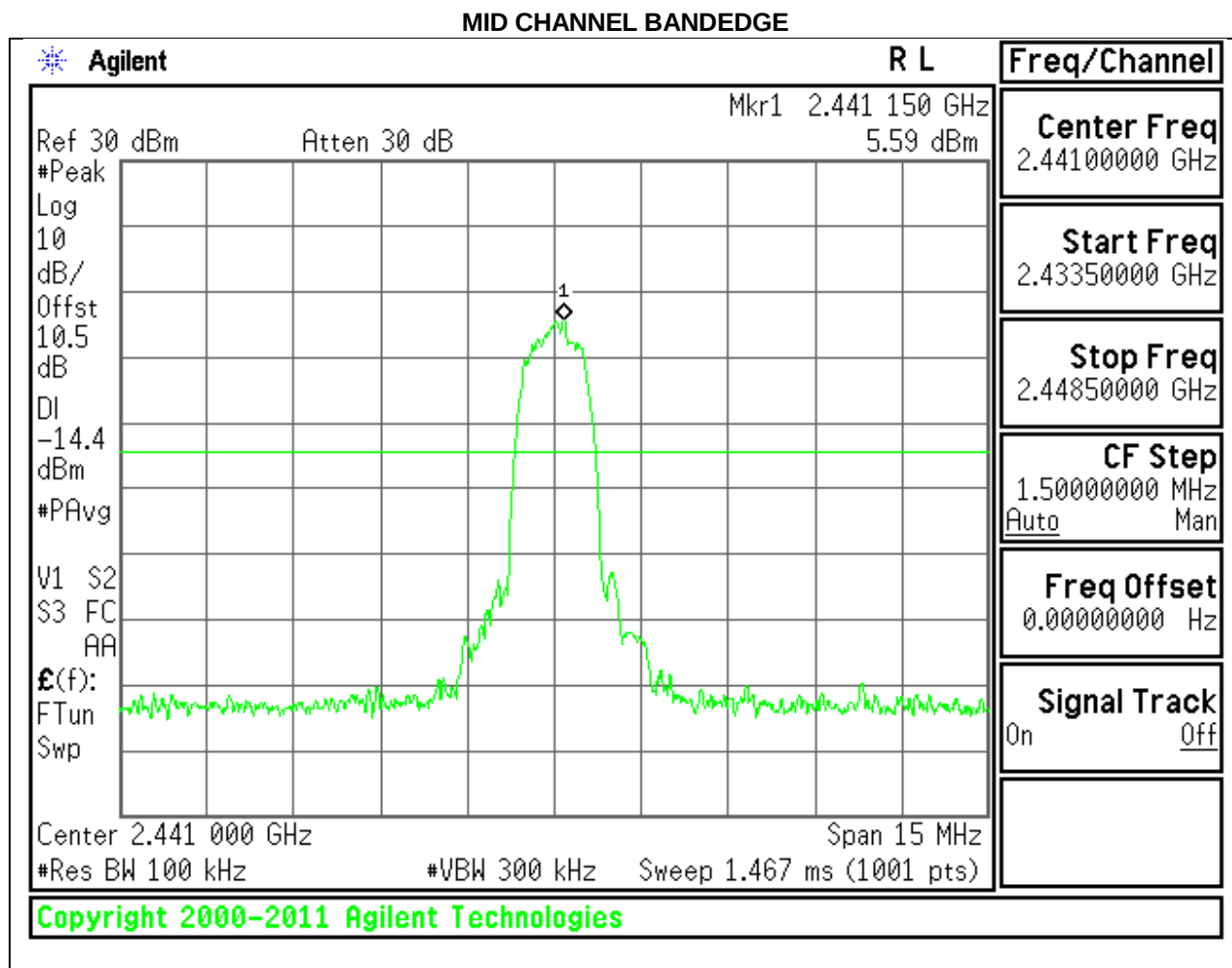
SPURIOUS EMISSIONS, LOW CHANNEL



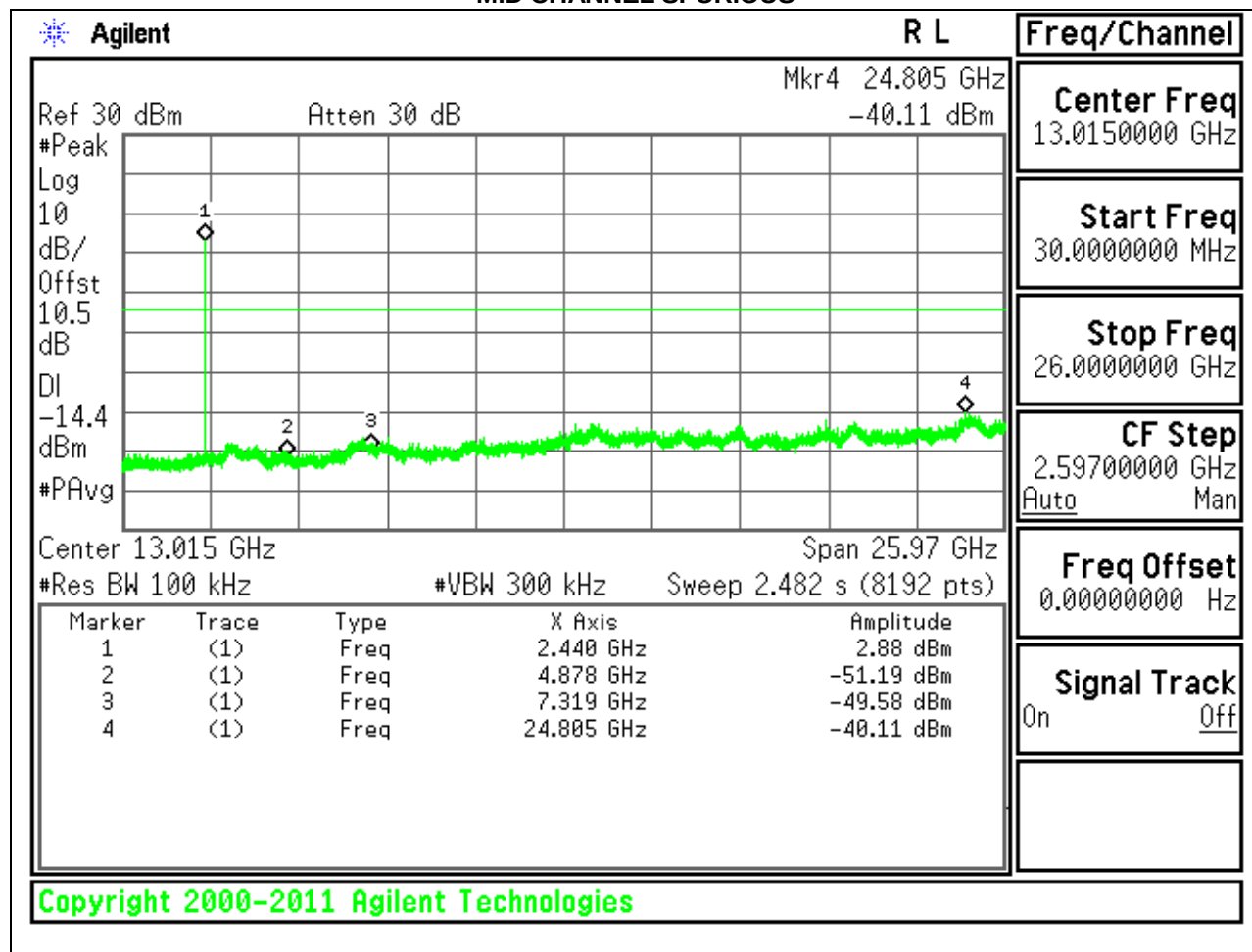
LOW CHANNEL SPURIOUS



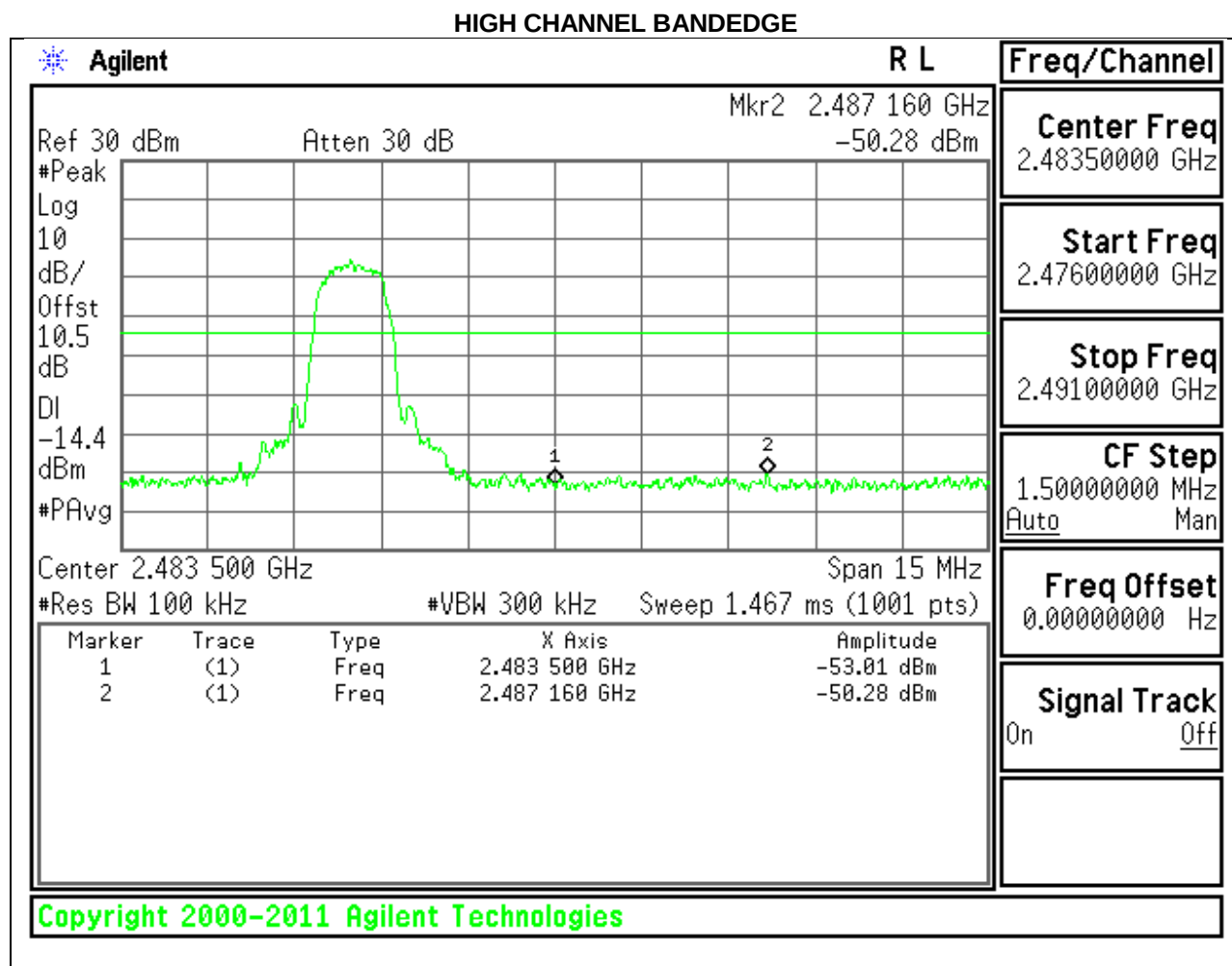
SPURIOUS EMISSIONS, MID CHANNEL



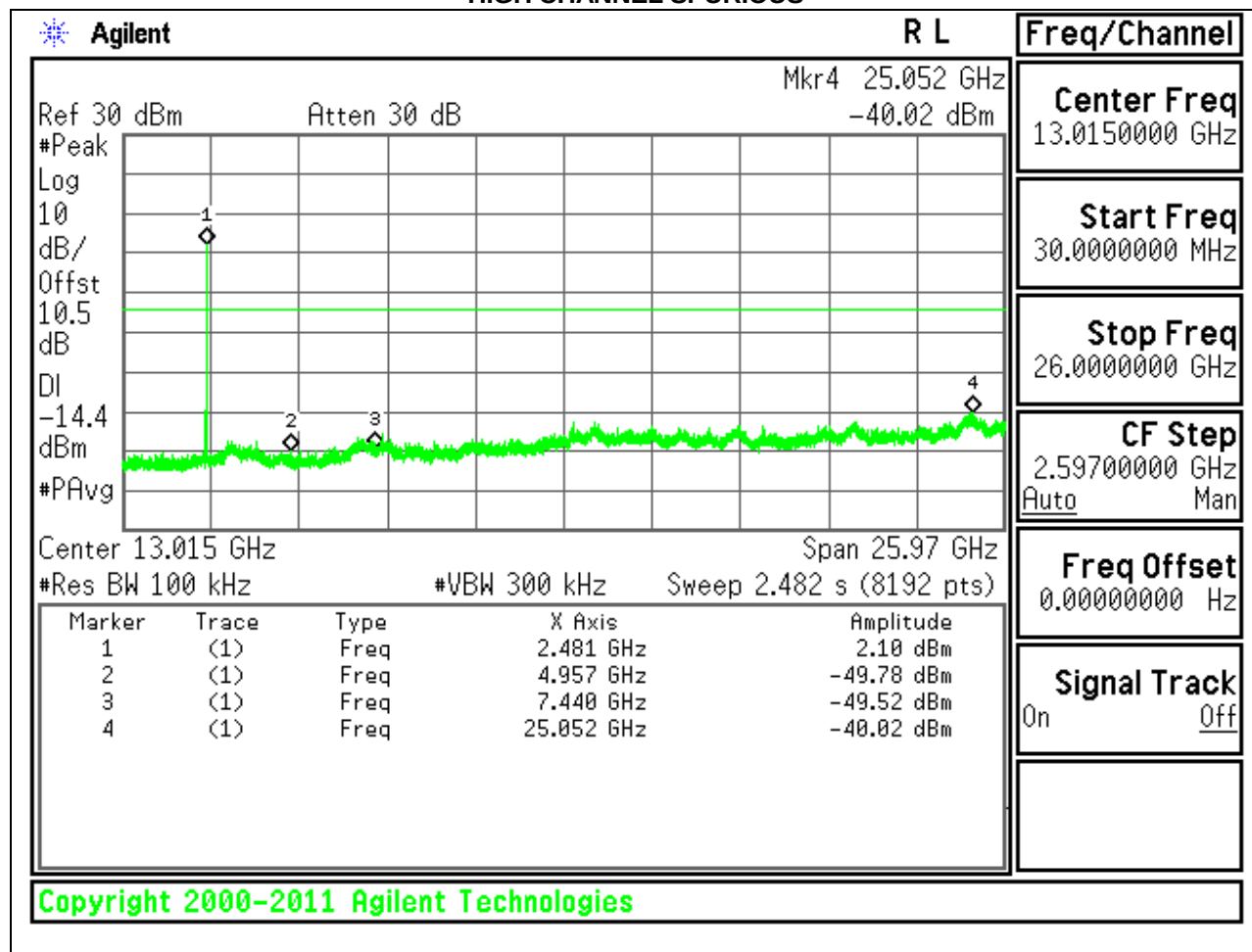
MID CHANNEL SPURIOUS



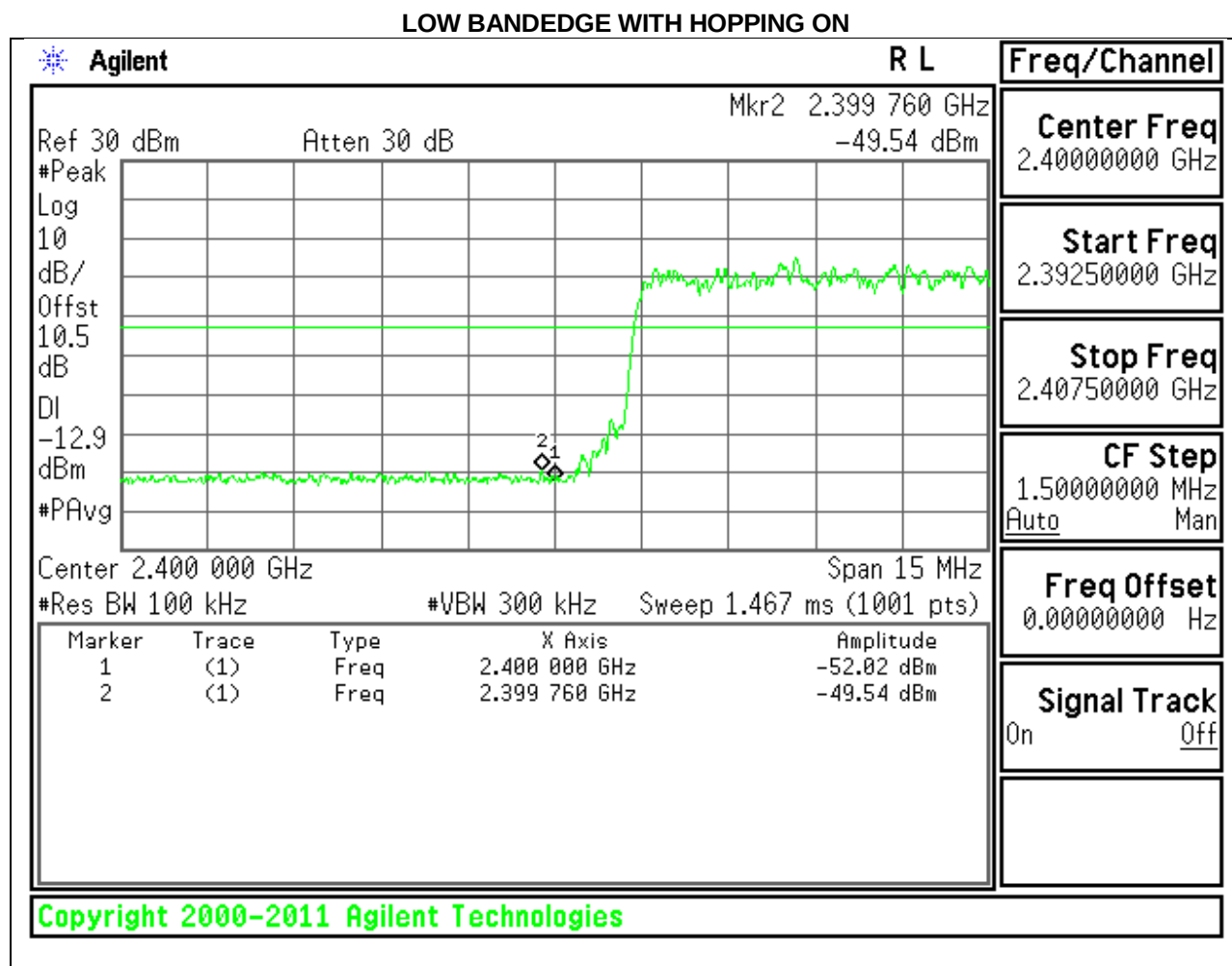
SPURIOUS EMISSIONS, HIGH CHANNEL



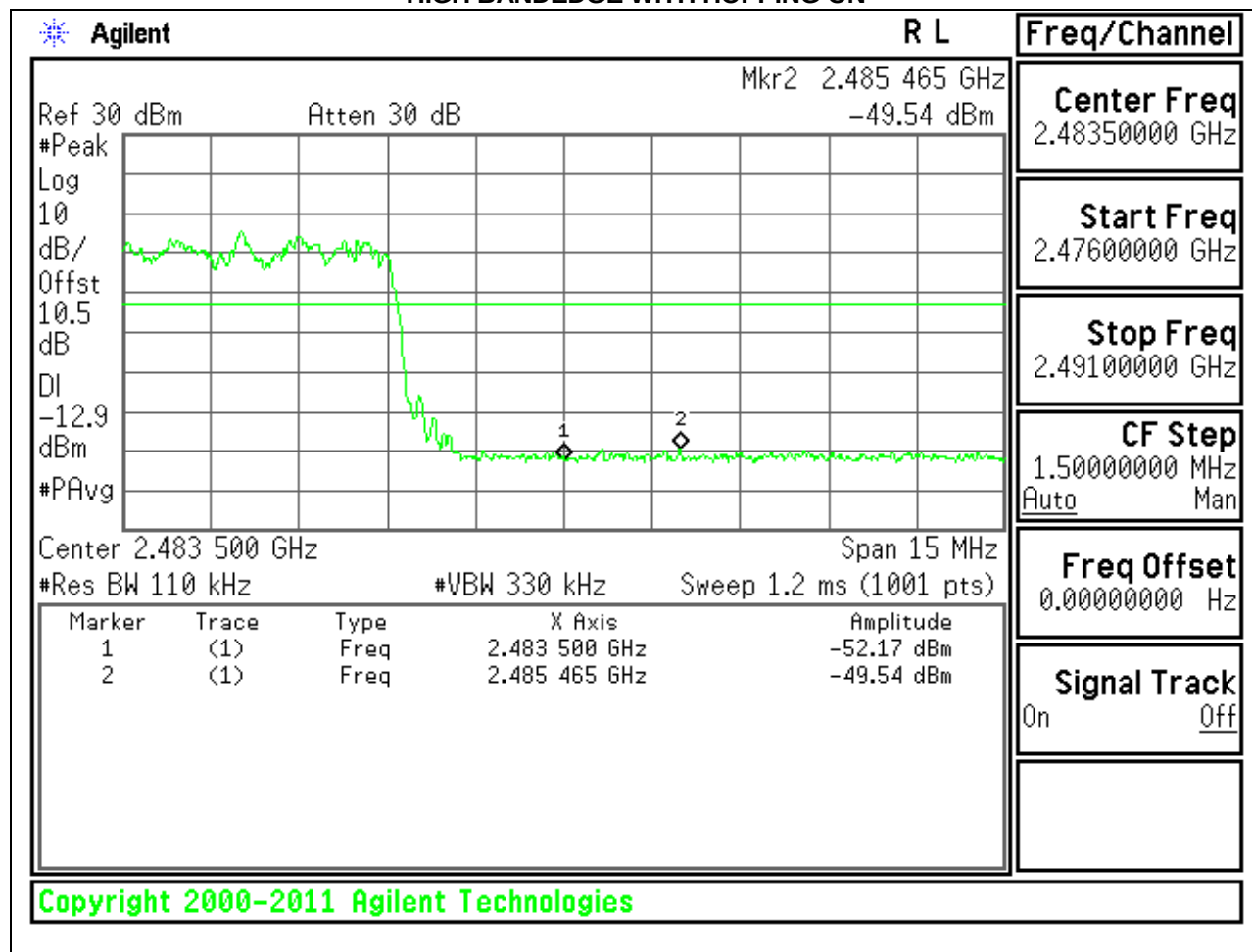
HIGH CHANNEL SPURIOUS



SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



HIGH BANDEDGE WITH HOPPING ON



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V}/\text{m}$) at 3 m	Field Strength Limit (dB $\mu\text{V}/\text{m}$) 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.
 $\text{GFSK} = 1/T = 1 / 0.00289\text{S} = 346\text{Hz}$.

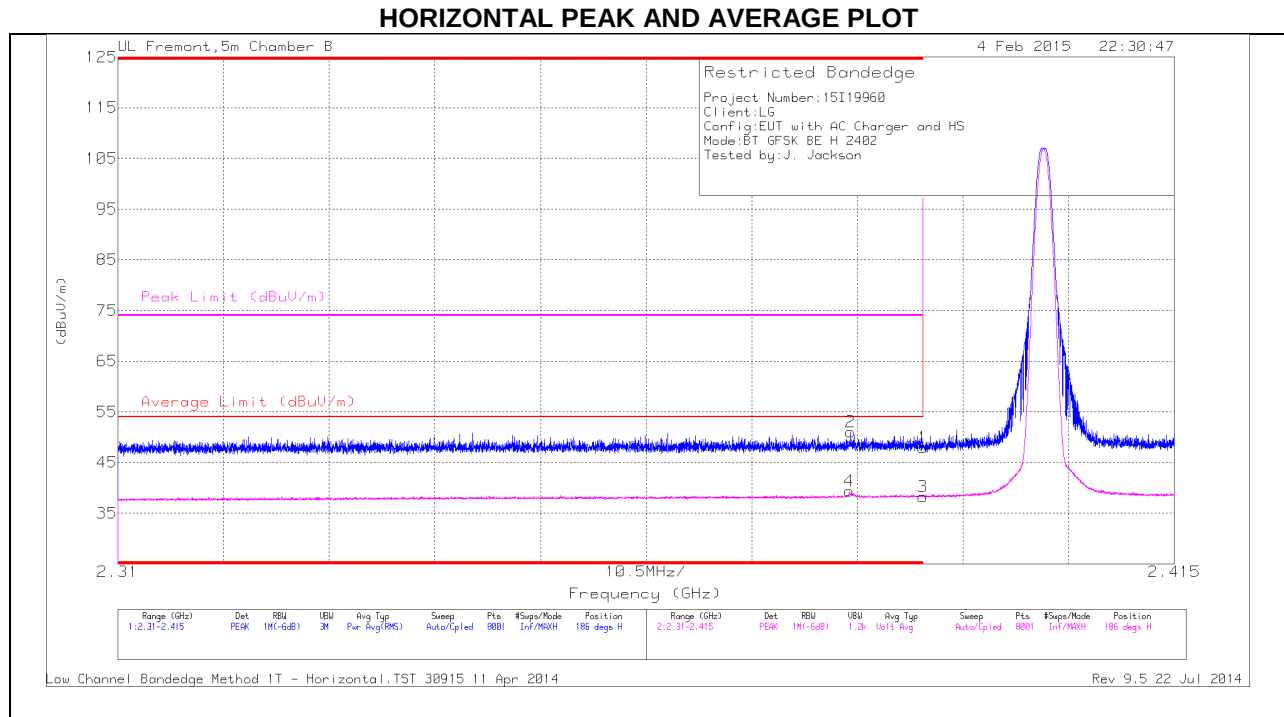
The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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

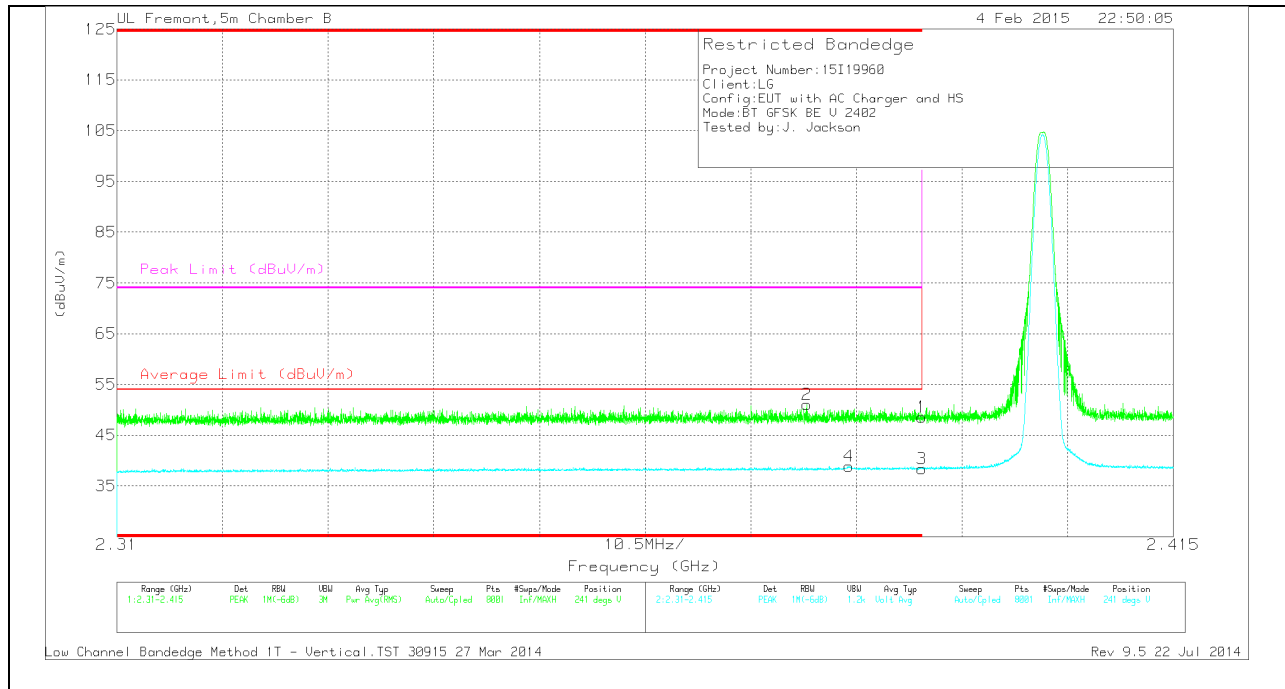
RESTRICTED BANDEDGE (LOW CHANNEL)



HORIZONTAL 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	* 2.39	38.48	PK	32.1	-22.6	47.98	-	-	74	-26.02	186	189	H
2	* 2.383	41.49	PK	32.1	-22.6	50.99	-	-	74	-23.01	186	189	H
3	* 2.39	28.77	VB1T	32.1	-22.6	38.27	54	-15.73	-	-	186	189	H
4	* 2.383	29.82	VB1T	32.1	-22.6	39.32	54	-14.68	-	-	186	189	H

VERTICAL PEAK AND AVERAGE PLOT

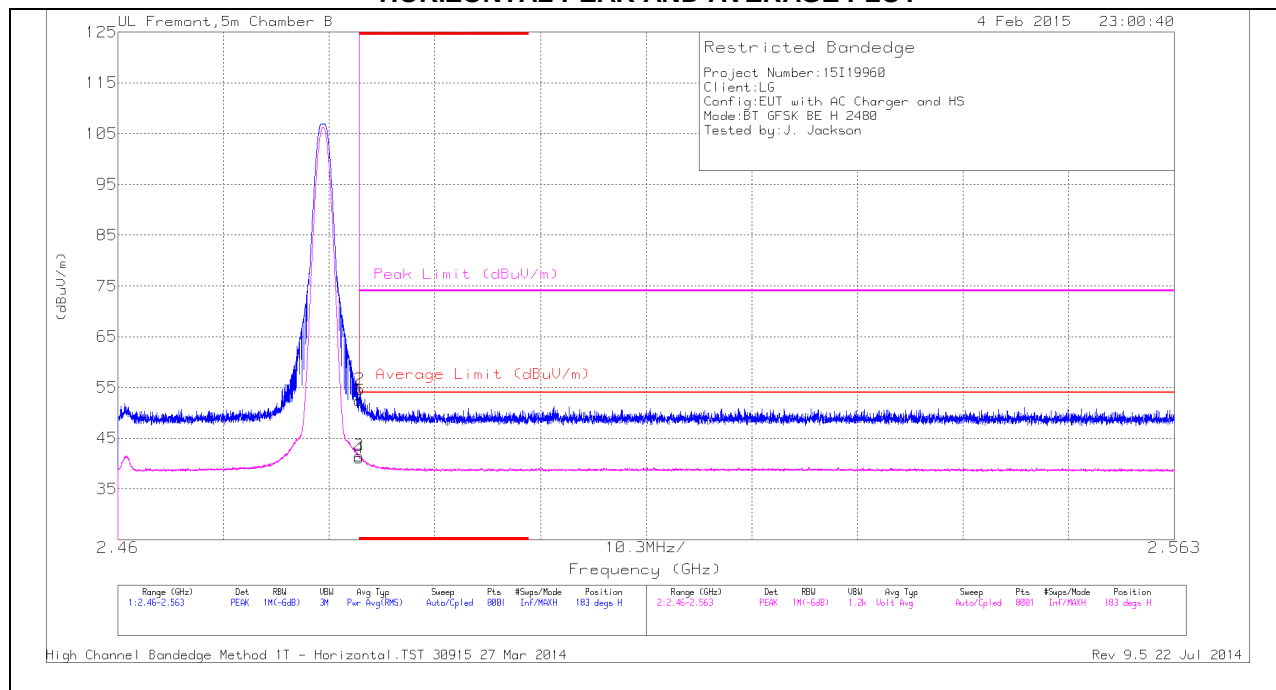


VERTICAL DATA

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	* 2.39	39.11	PK	32.1	-22.6	48.61	-	-	74	-25.39	241	286	V
2	* 2.379	41.64	PK	32	-22.6	51.04	-	-	74	-22.96	241	286	V
3	* 2.39	28.85	VB1T	32.1	-22.6	38.35	54	-15.65	-	-	241	286	V
4	* 2.383	29.42	VB1T	32.1	-22.6	38.92	54	-15.08	-	-	241	286	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

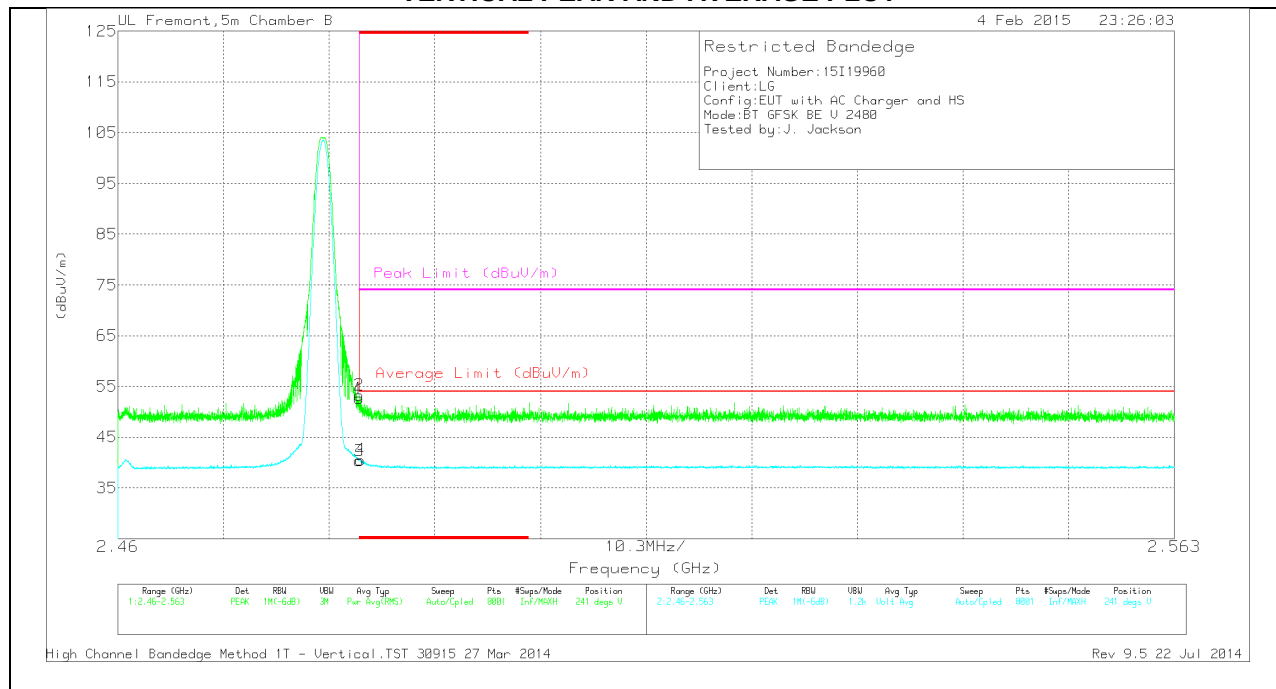
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/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	42.46	PK	32.4	-22.4	52.46	-	-	74	-21.54	183	225	H
2	* 2.484	44.65	PK	32.4	-22.4	54.65	-	-	74	-19.35	183	225	H
3	* 2.484	31.54	VB1T	32.4	-22.4	41.54	54	-12.46	-	-	183	225	H
4	* 2.484	31.15	VB1T	32.4	-22.4	41.15	54	-12.85	-	-	183	225	H

VERTICAL PEAK AND AVERAGE PLOT

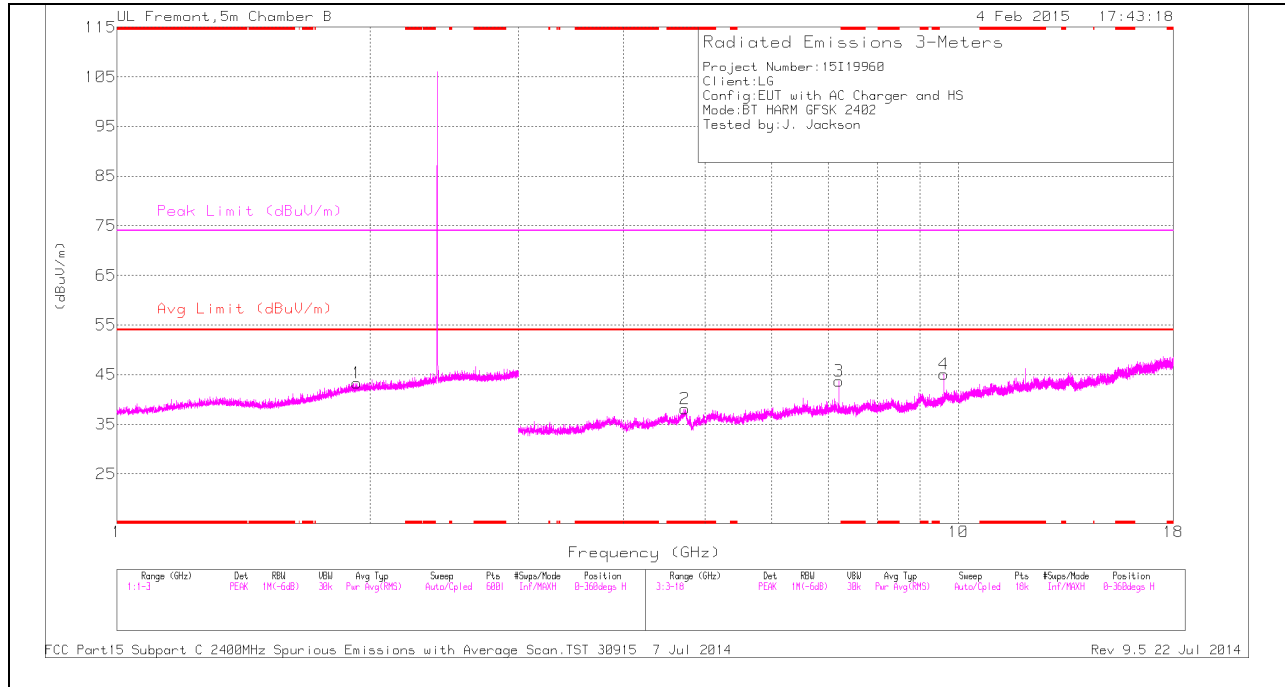


VERTICAL DATA

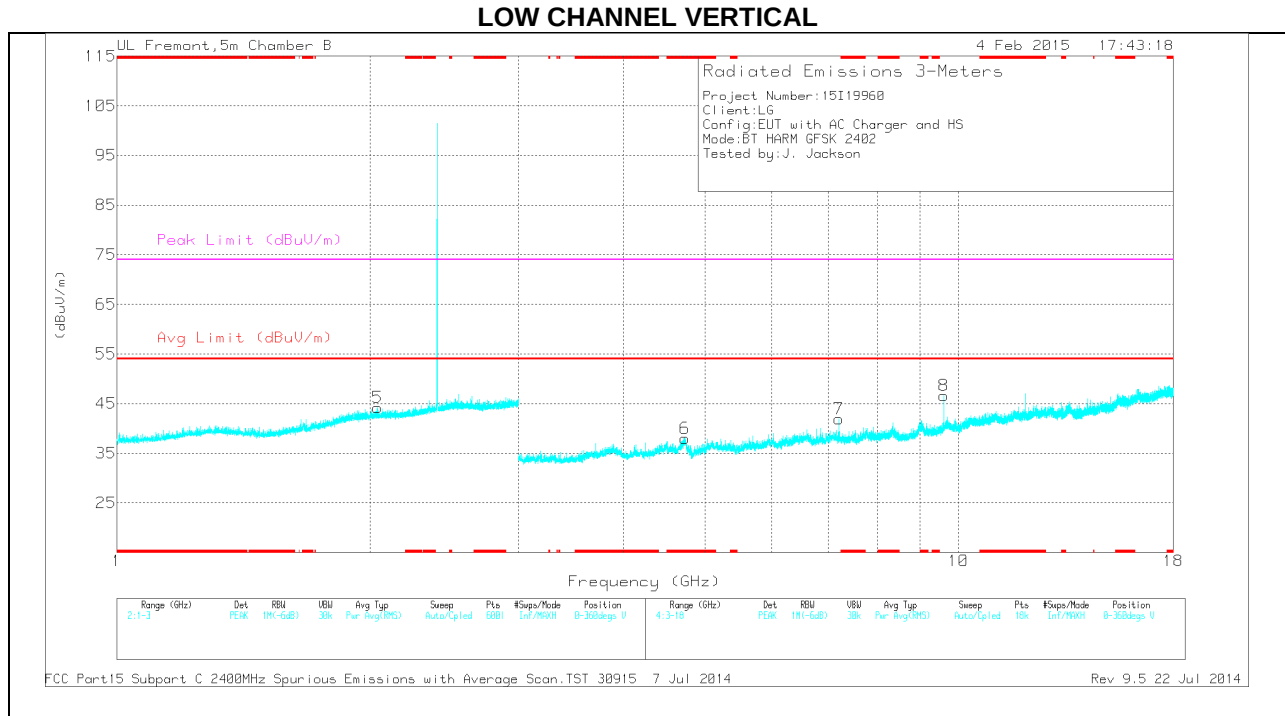
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.63	PK	32.4	-22.4	52.63	-	-	74	-21.37	241	270	V
2	* 2.484	43.24	PK	32.4	-22.4	53.24	-	-	74	-20.76	241	270	V
3	* 2.484	30.35	VB1T	32.4	-22.4	40.35	54	-13.65	-	-	241	270	V
4	* 2.484	30.54	VB1T	32.4	-22.4	40.54	54	-13.46	-	-	241	270	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.



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

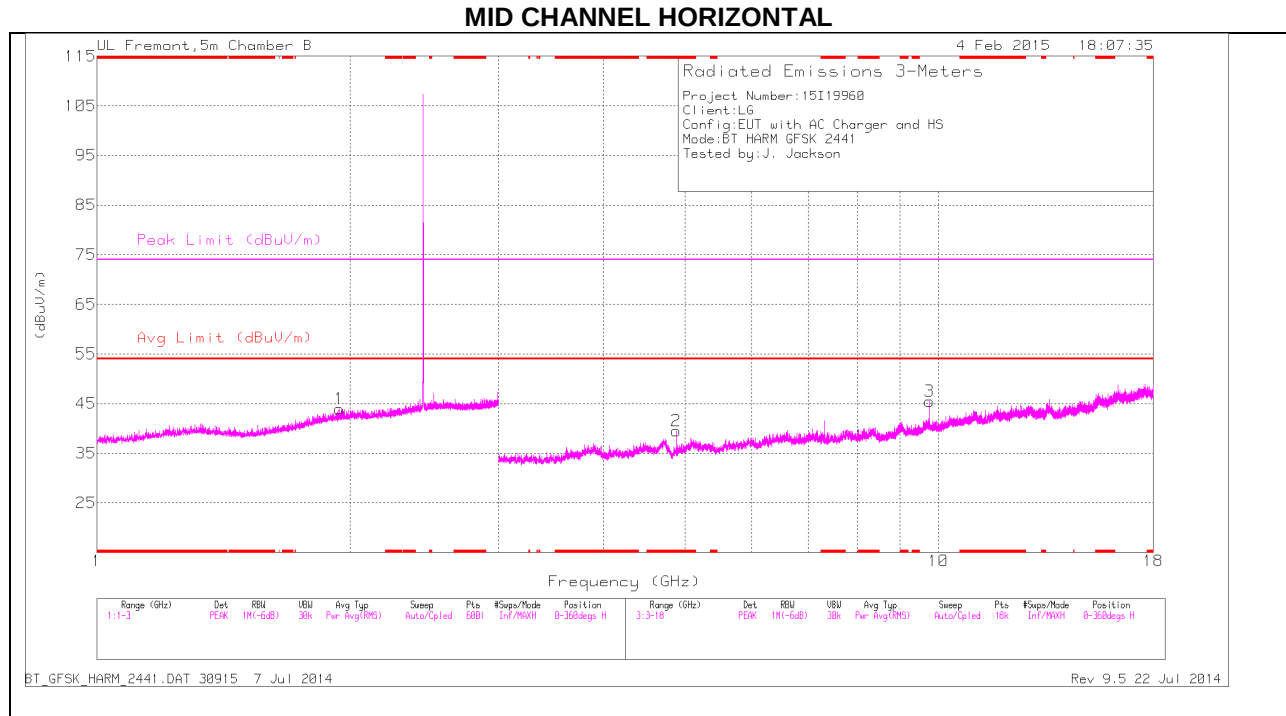
TRACE MARKERS

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
2	* 4.73	32.99	PK	34.2	-29.1	38.09	-	-	74	-35.91	0-360	199	H
6	* 4.732	32.86	PK	34.2	-29.1	37.96	-	-	74	-36.04	0-360	199	V
1	1.929	35.39	PK	31.1	-23.2	43.29	-	-	-	-	0-360	101	H
5	2.042	36.13	PK	31.3	-23.2	44.23	-	-	-	-	0-360	101	V
3	7.206	35.42	PK	35.5	-27.2	43.72	-	-	-	-	0-360	199	H
7	7.206	33.65	PK	35.5	-27.2	41.95	-	-	-	-	0-360	199	V
4	9.608	32.41	PK	36.8	-24.1	45.11	-	-	-	-	0-360	199	H
8	9.608	33.9	PK	36.8	-24.1	46.6	-	-	-	-	0-360	199	V

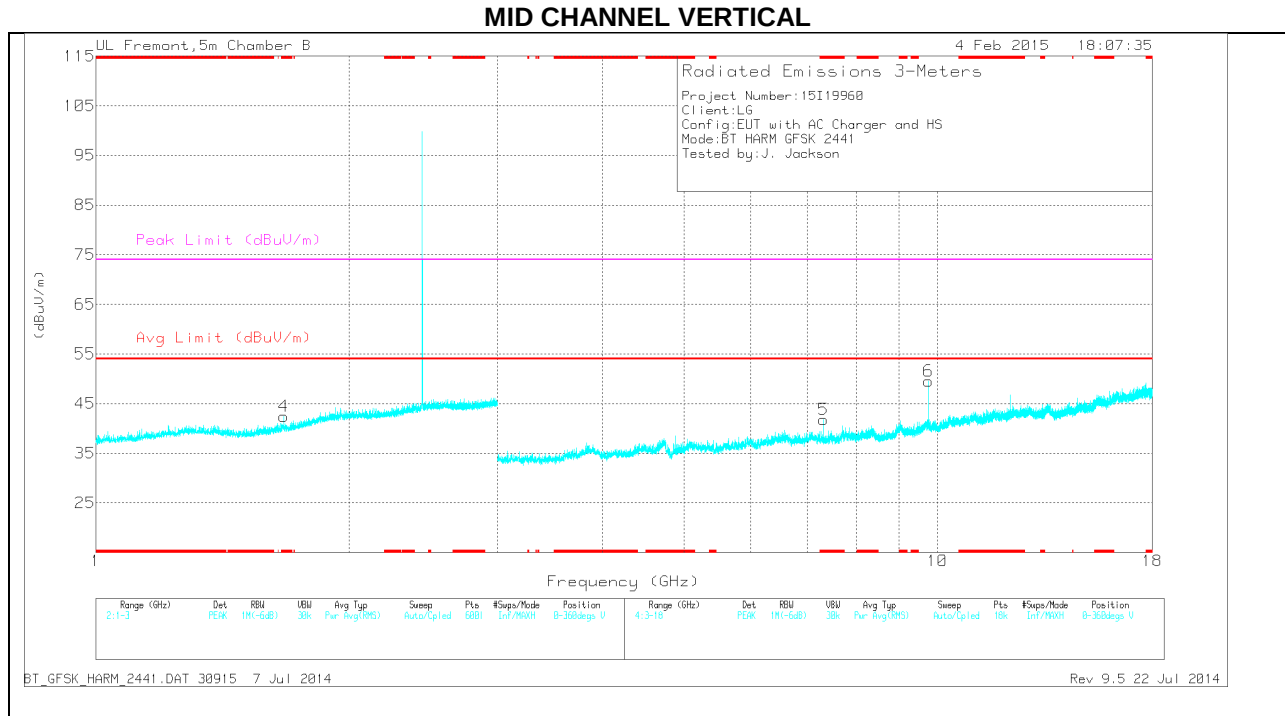
PK - Peak detector

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
* 4.729	40.64	PK3	34.2	-29.1	45.74	-	-	74	-28.26	109	198	H
* 4.732	28.97	VB1T	34.2	-29.1	34.07	54	-19.93	-	-	109	198	H
* 4.731	40.96	PK3	34.2	-29.1	46.06	-	-	74	-27.94	109	198	V
* 4.731	28.8	VB1T	34.2	-29.1	33.9	54	-20.1	-	-	109	198	V



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

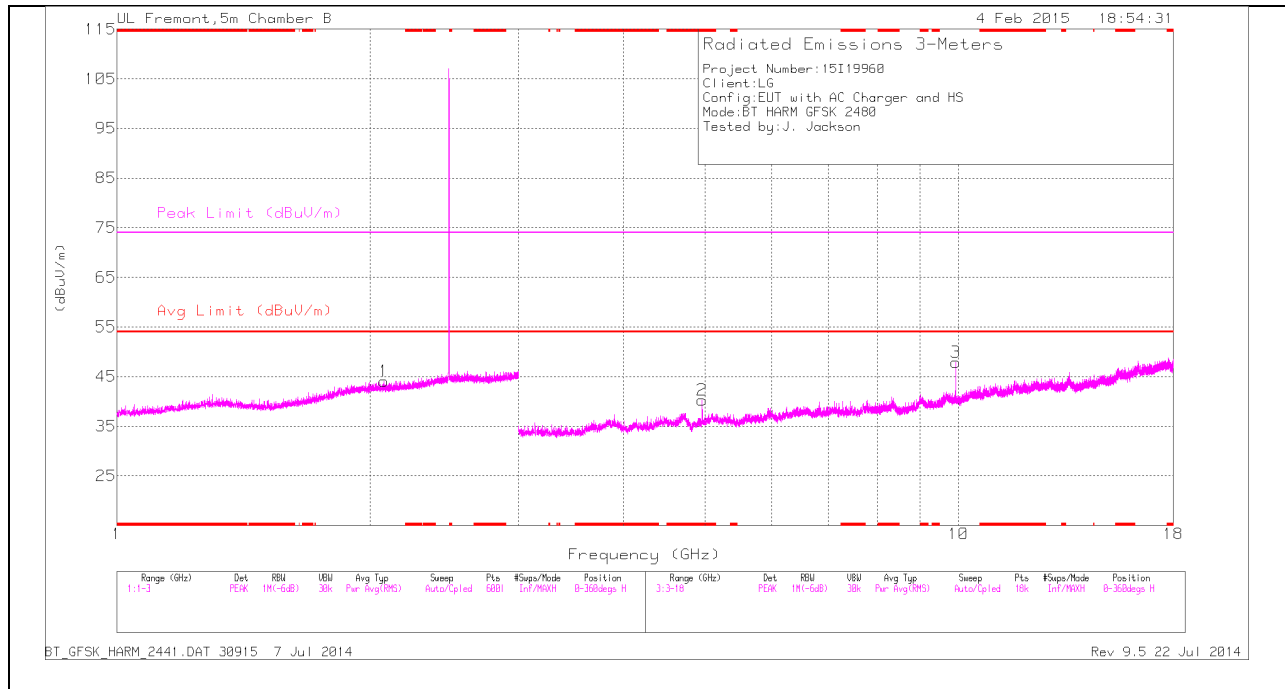
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.671	37	PK	28.9	-23.5	42.4	-	-	74	-31.6	0-360	101	V
2	* 4.882	35.66	PK	34.2	-30.4	39.46	-	-	74	-34.54	0-360	200	H
5	* 7.323	34.38	PK	35.6	-28.2	41.78	-	-	74	-32.22	0-360	200	V
1	1.941	35.92	PK	31.2	-23.2	43.92	-	-	-	-	0-360	101	H
3	9.764	32.58	PK	36.9	-24	45.48	-	-	-	-	0-360	200	H
6	9.764	36.69	PK	36.9	-24	49.59	-	-	-	-	0-360	200	V

PK - Peak detector

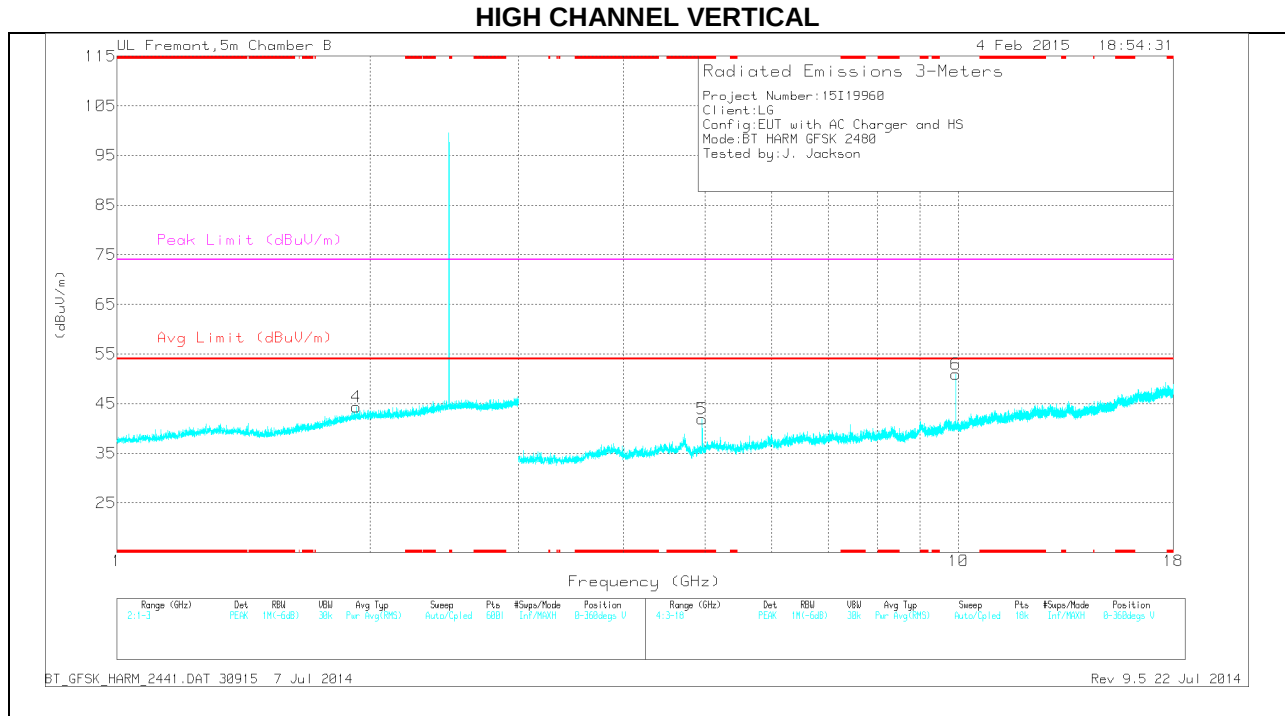
RADIATED EMISSIONS

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
* 1.669	43.36	PK3	28.9	-23.5	48.76	-	-	74	-25.24	97	183	V
* 1.67	31.36	VB1T	28.9	-23.5	36.76	54	-17.24	-	-	97	183	V
* 4.882	42.04	PK3	34.2	-30.4	45.84	-	-	74	-28.16	287	271	H
* 4.882	34.18	VB1T	34.2	-30.4	37.98	54	-16.02	-	-	287	271	H
* 7.323	41.84	PK3	35.6	-28.2	49.24	-	-	74	-24.76	214	175	V
* 7.323	32.93	VB1T	35.6	-28.2	40.33	54	-13.67	-	-	214	175	V

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.



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
2	* 4.96	36.23	PK	34.2	-30.2	40.23	-	-	74	-33.77	0-360	199	H
5	* 4.96	37.94	PK	34.2	-30.2	41.94	-	-	74	-32.06	0-360	199	V
4	1.925	36.47	PK	31.1	-23.2	44.37	-	-	-	-	0-360	199	V
1	2.077	35.86	PK	31.3	-23.1	44.06	-	-	-	-	0-360	101	H
3	9.92	34.43	PK	37	-23.6	47.83	-	-	-	-	0-360	199	H
6	9.92	37.49	PK	37	-23.6	50.89	-	-	-	-	0-360	199	V

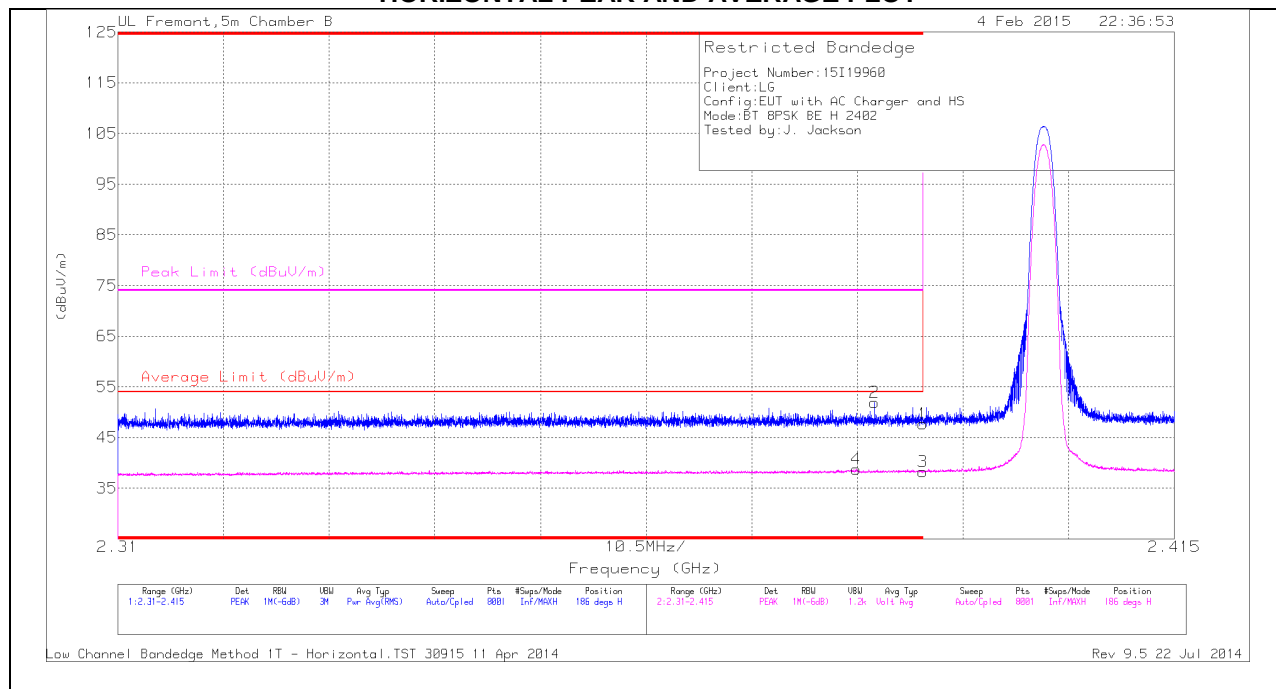
PK - Peak detector

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
* 4.96	43.25	PK3	34.2	-30.2	47.25	-	-	74	-26.75	155	249	H
* 4.96	34.67	VB1T	34.2	-30.2	38.67	54	-15.33	-	-	155	249	H
* 4.96	43.9	PK3	34.2	-30.2	47.9	-	-	74	-26.1	341	247	V
* 4.96	37.64	VB1T	34.2	-30.2	41.64	54	-12.36	-	-	341	247	V

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

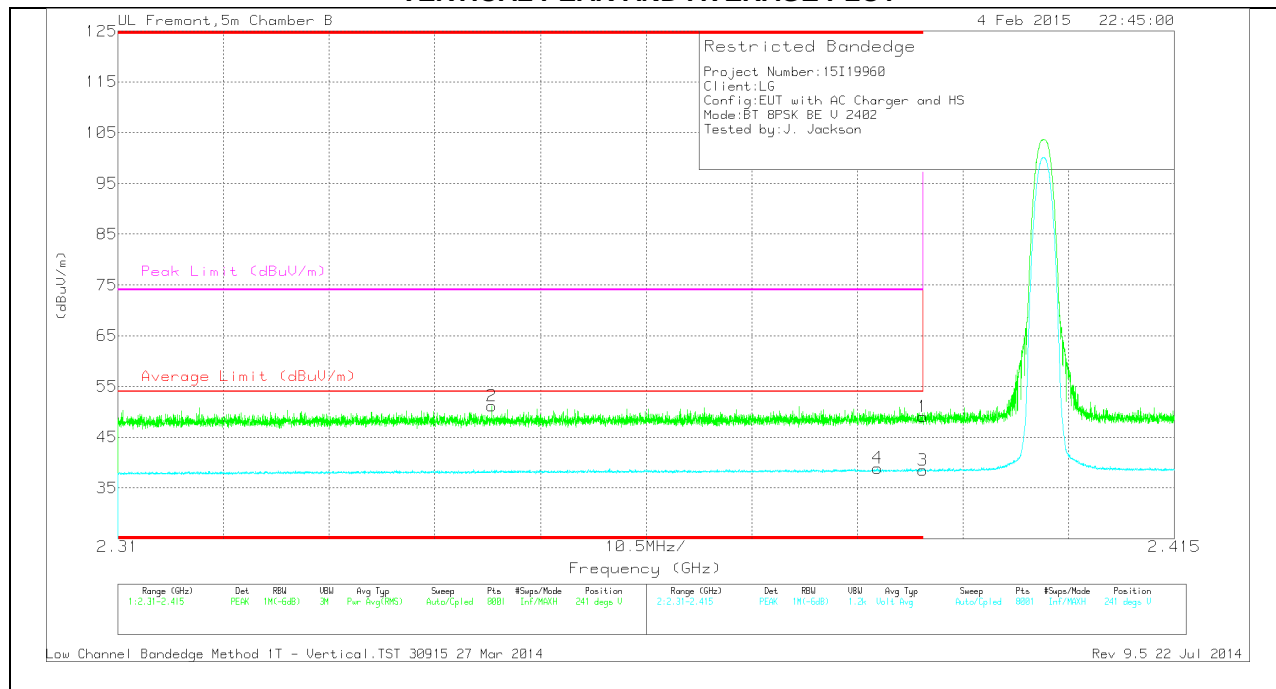
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ 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	* 2.39	38.21	PK	32.1	-22.6	47.71	-	-	74	-26.29	186	189	H
2	* 2.385	42.36	PK	32.1	-22.6	51.86	-	-	74	-22.14	186	189	H
3	* 2.39	28.77	VB1T	32.1	-22.6	38.27	54	-15.73	-	-	186	189	H
4	* 2.383	29.21	VB1T	32.1	-22.6	38.71	54	-15.29	-	-	186	189	H

VERTICAL PEAK AND AVERAGE PLOT

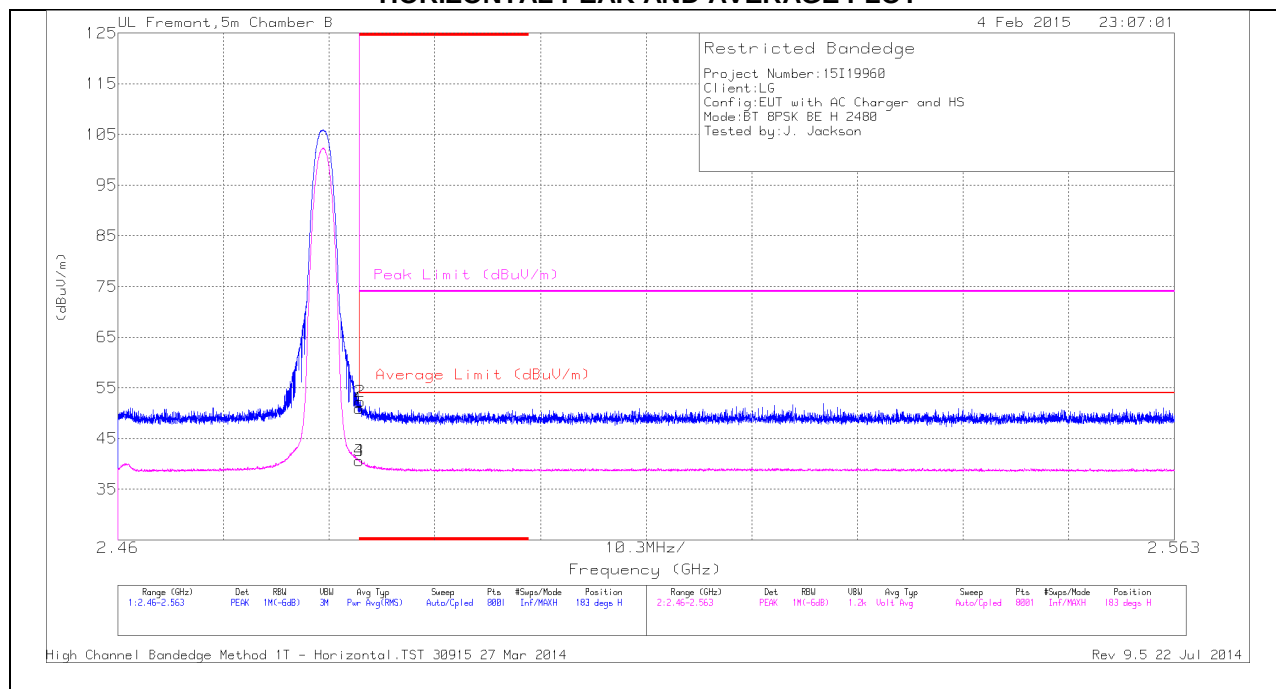


VERTICAL DATA

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	* 2.39	39.55	PK	32.1	-22.6	49.05	-	-	74	-24.95	241	286	V
2	* 2.347	41.95	PK	31.9	-22.7	51.15	-	-	74	-22.85	241	286	V
3	* 2.39	28.94	VB1T	32.1	-22.6	38.44	54	-15.56	-	-	241	286	V
4	* 2.385	29.43	VB1T	32.1	-22.6	38.93	54	-15.07	-	-	241	286	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

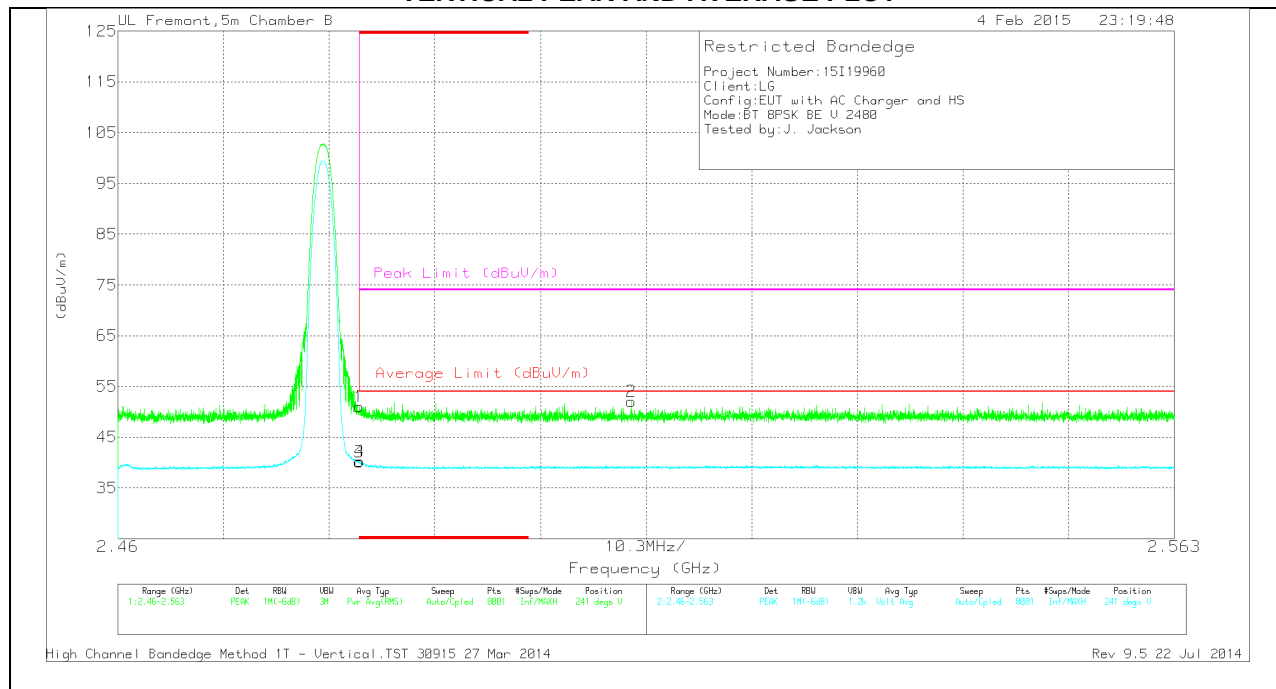
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ 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	40.92	PK	32.4	-22.4	50.92	-	-	74	-23.08	183	225	H
2	* 2.484	42.24	PK	32.4	-22.4	52.24	-	-	74	-21.76	183	225	H
3	* 2.484	30.59	VB1T	32.4	-22.4	40.59	54	-13.41	-	-	183	225	H
4	* 2.484	30.63	VB1T	32.4	-22.4	40.63	54	-13.37	-	-	183	225	H

VERTICAL PEAK AND AVERAGE PLOT

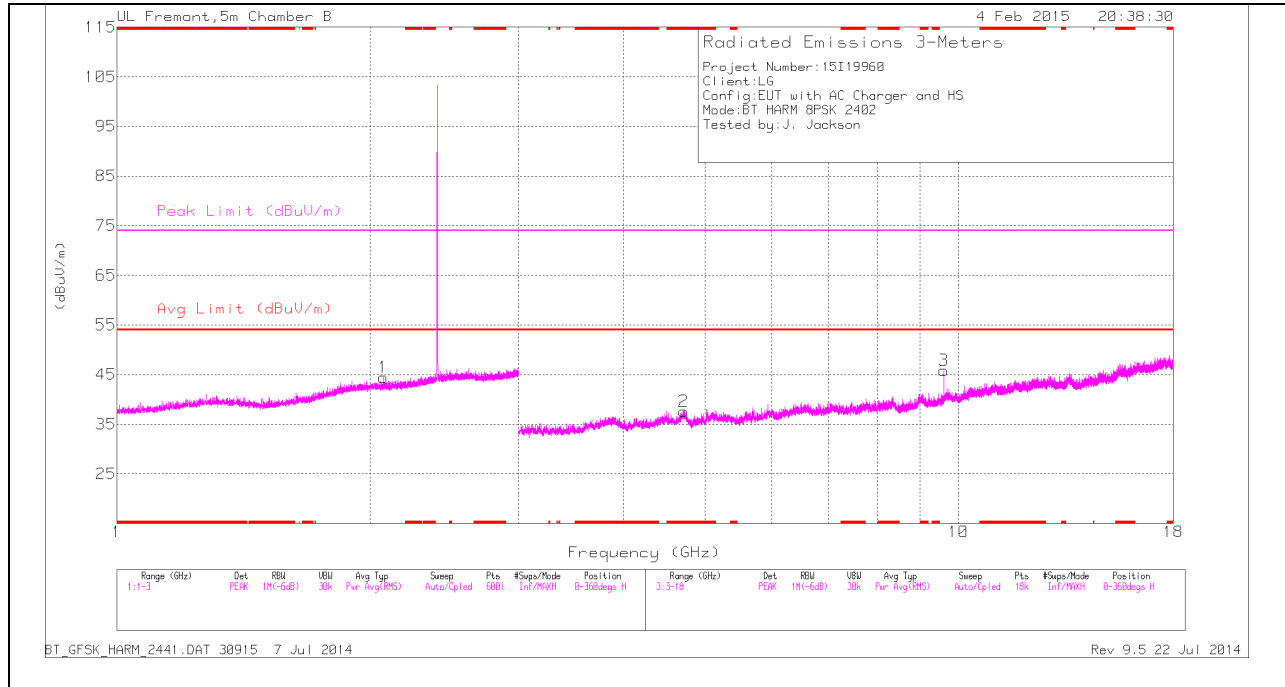


VERTICAL DATA

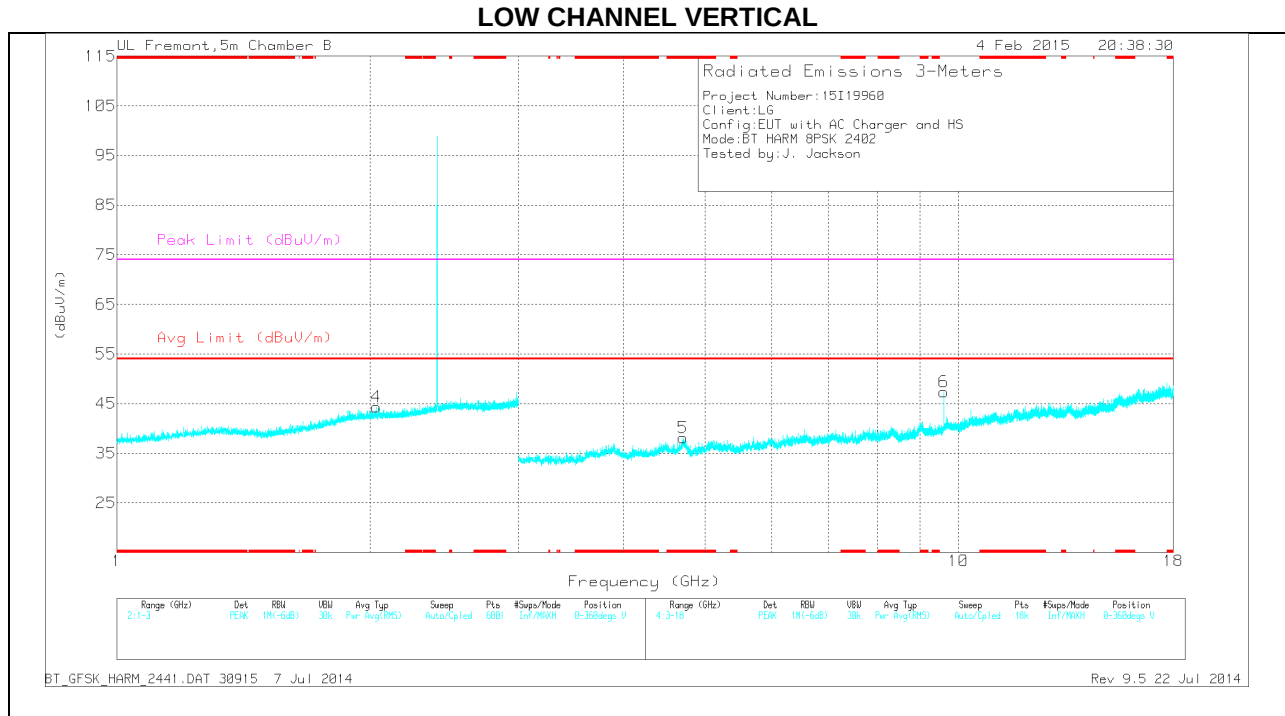
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.08	PK	32.4	-22.4	51.08	-	-	74	-22.92	241	270	V
3	* 2.484	30.1	VB1T	32.4	-22.4	40.1	54	-13.9	-	-	241	270	V
4	* 2.484	30.21	VB1T	32.4	-22.4	40.21	54	-13.79	-	-	241	270	V
2	2.51	42.03	PK	32.4	-22.4	52.03	-	-	74	-21.97	241	270	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.



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

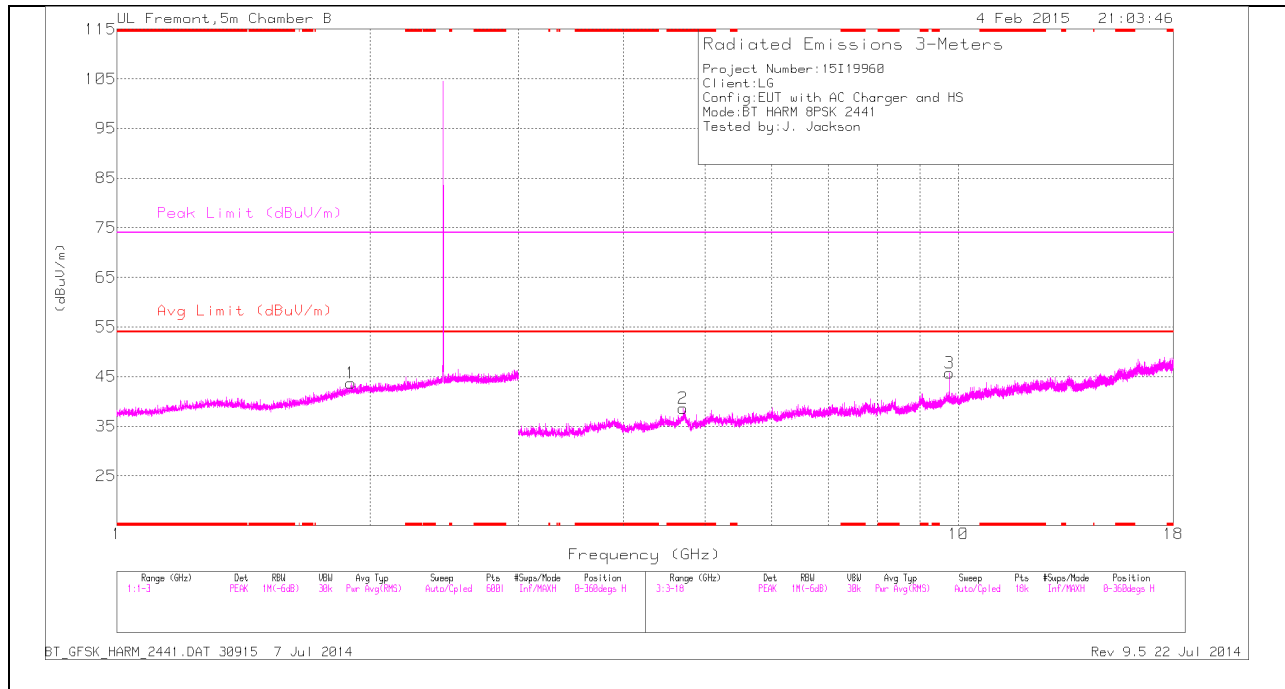
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.718	32.54	PK	34.2	-29.1	37.64	-	-	74	-36.36	0-360	101	H
5	* 4.706	33.17	PK	34.2	-29.3	38.07	-	-	74	-35.93	0-360	200	V
4	2.034	36.18	PK	31.3	-23.2	44.28	-	-	-	-	0-360	199	V
1	2.072	36.22	PK	31.3	-23.1	44.42	-	-	-	-	0-360	101	H
3	9.608	33.12	PK	36.8	-24.1	45.82	-	-	-	-	0-360	200	H
6	9.608	34.68	PK	36.8	-24.1	47.38	-	-	-	-	0-360	200	V

PK - Peak detector

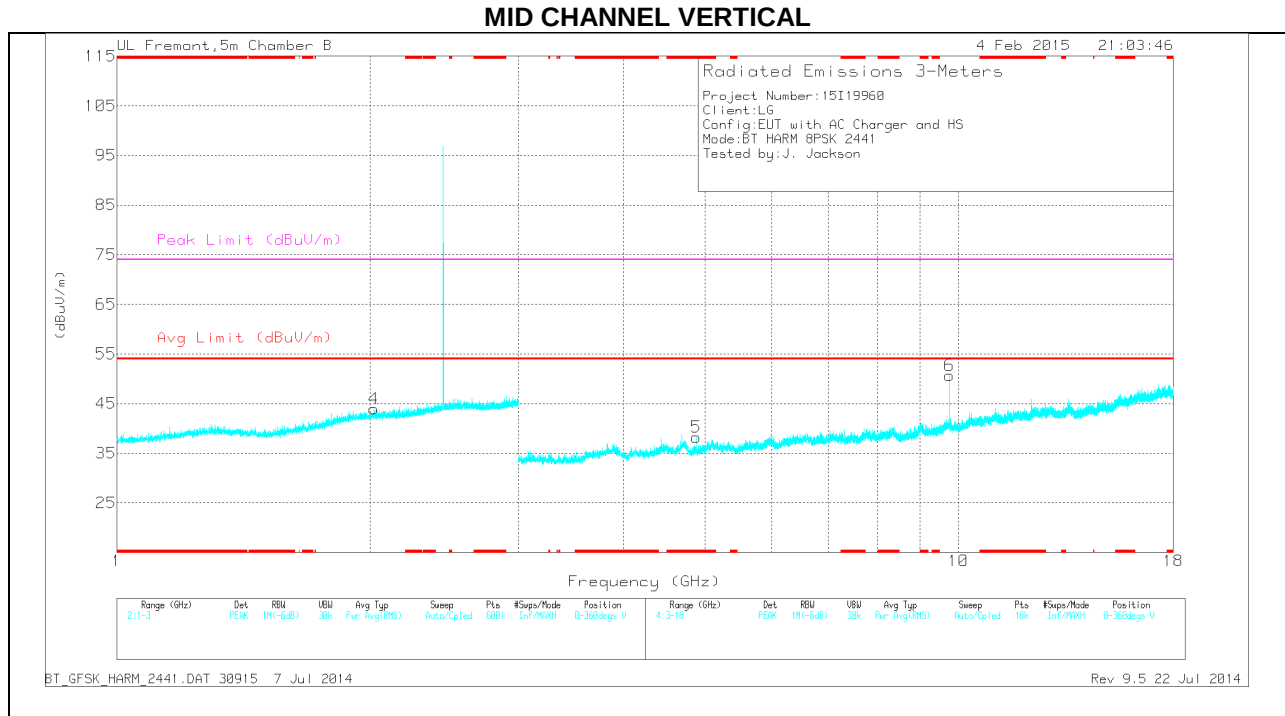
RADIATED EMISSIONS

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
* 4.718	40.74	PK3	34.2	-29.1	45.84	-	-	74	-28.16	176	201	H
* 4.719	28.97	VB1T	34.2	-29.1	34.07	54	-19.93	-	-	176	201	H
* 4.708	40.76	PK3	34.2	-29.2	45.76	-	-	74	-28.24	4	101	V
* 4.709	29	VB1T	34.2	-29.2	34	54	-20	-	-	4	101	V

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.



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

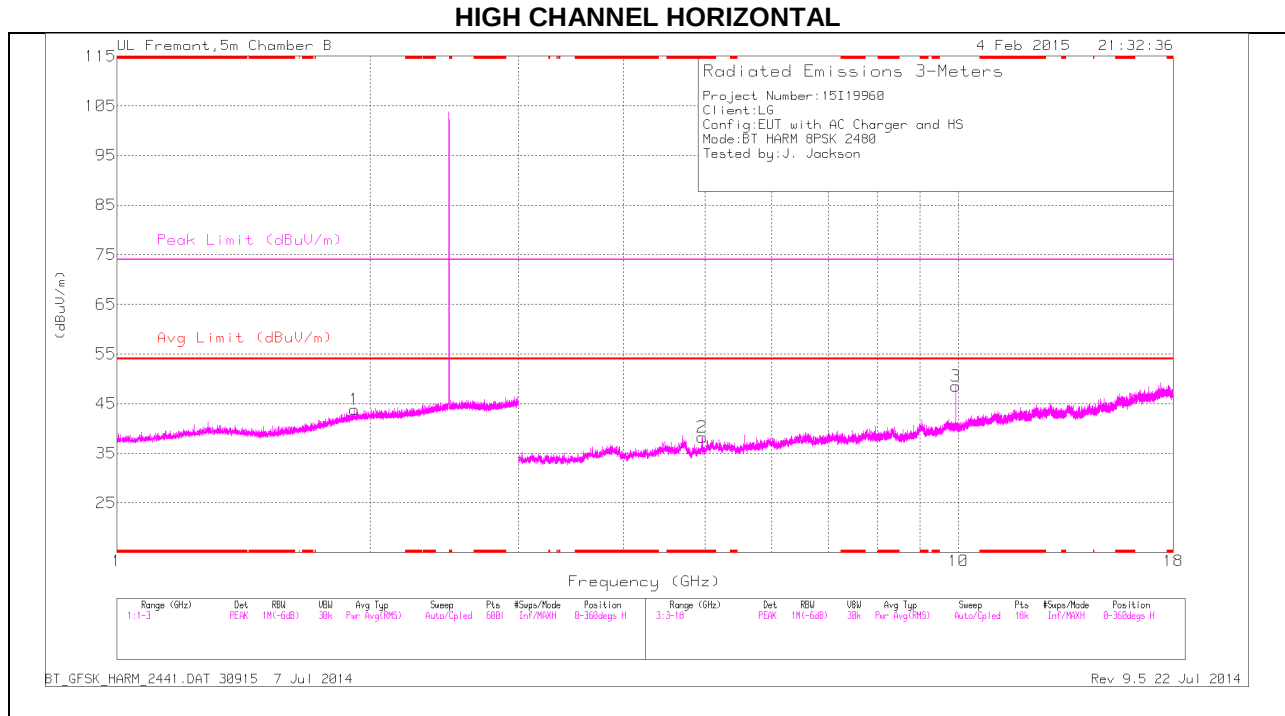
TRACE MARKERS

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
2	* 4.708	33.57	PK	34.2	-29.2	38.57	-	-	74	-35.43	0-360	101	H
5	* 4.882	34.46	PK	34.2	-30.4	38.26	-	-	74	-35.74	0-360	200	V
1	1.897	35.98	PK	31	-23.3	43.68	-	-	-	-	0-360	199	H
4	2.021	35.83	PK	31.3	-23.2	43.93	-	-	-	-	0-360	101	V
3	9.764	32.85	PK	36.9	-24	45.75	-	-	-	-	0-360	200	H
6	9.764	37.77	PK	36.9	-24	50.67	-	-	-	-	0-360	200	V

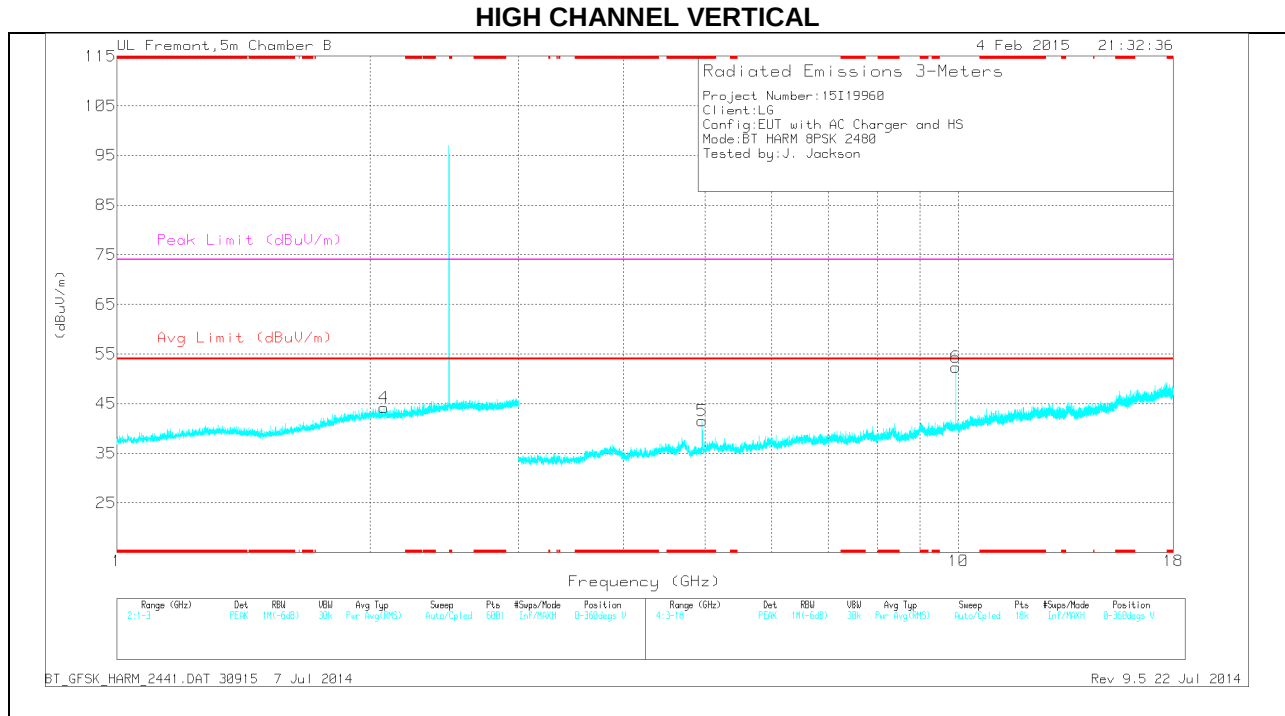
PK - Peak detector

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
* 4.709	40.69	PK3	34.2	-29.2	45.69	-	-	74	-28.31	196	101	H
* 4.711	28.8	VB1T	34.2	-29.2	33.8	54	-20.2	-	-	196	101	H
* 4.882	42.7	PK3	34.2	-30.4	46.5	-	-	74	-27.5	329	251	V
* 4.882	35.9	VB1T	34.2	-30.4	39.7	54	-14.3	-	-	329	251	V



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 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	* 4.96	34.24	PK	34.2	-30.2	38.24	-	-	74	-35.76	0-360	199	H
5	* 4.96	37.55	PK	34.2	-30.2	41.55	-	-	74	-32.45	0-360	199	V
1	1.915	35.92	PK	31.1	-23.2	43.82	-	-	-	-	0-360	101	H
4	2.076	36.06	PK	31.3	-23.1	44.26	-	-	-	-	0-360	199	V
3	9.92	35.16	PK	37	-23.6	48.56	-	-	-	-	0-360	199	H
6	9.92	38.96	PK	37	-23.6	52.36	-	-	-	-	0-360	199	V

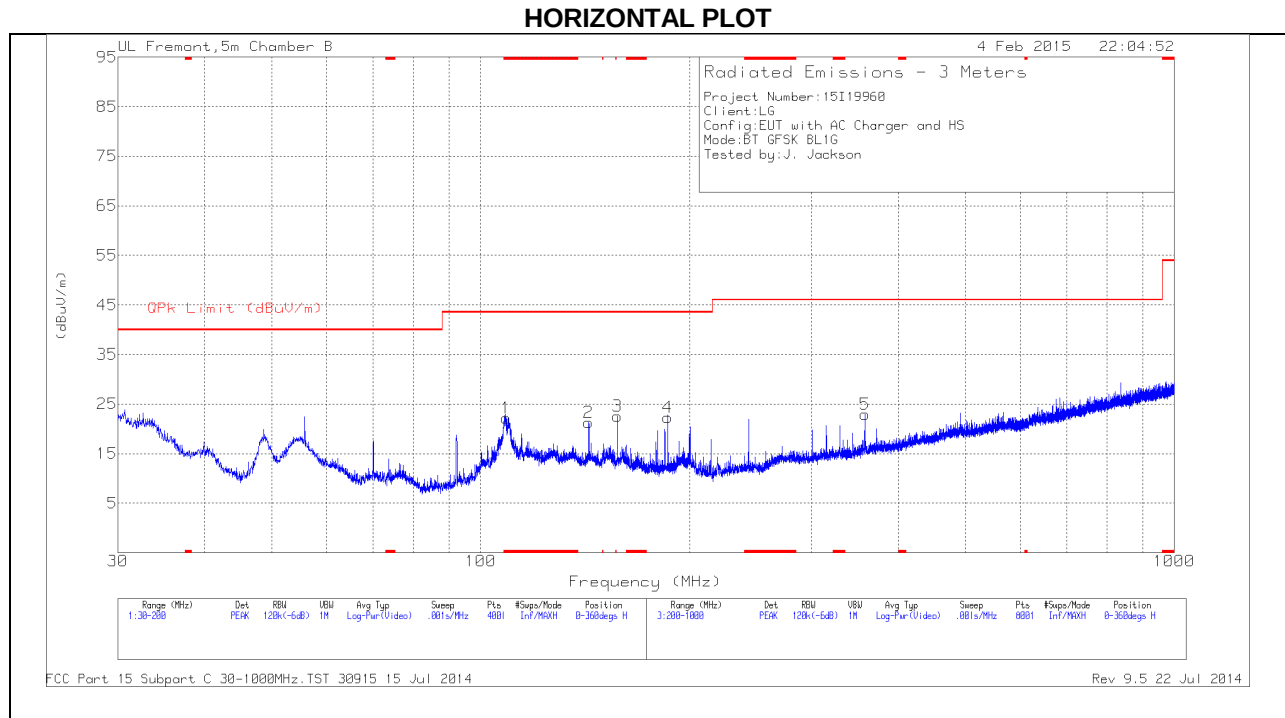
PK - Peak detector

RADIATED EMISSIONS

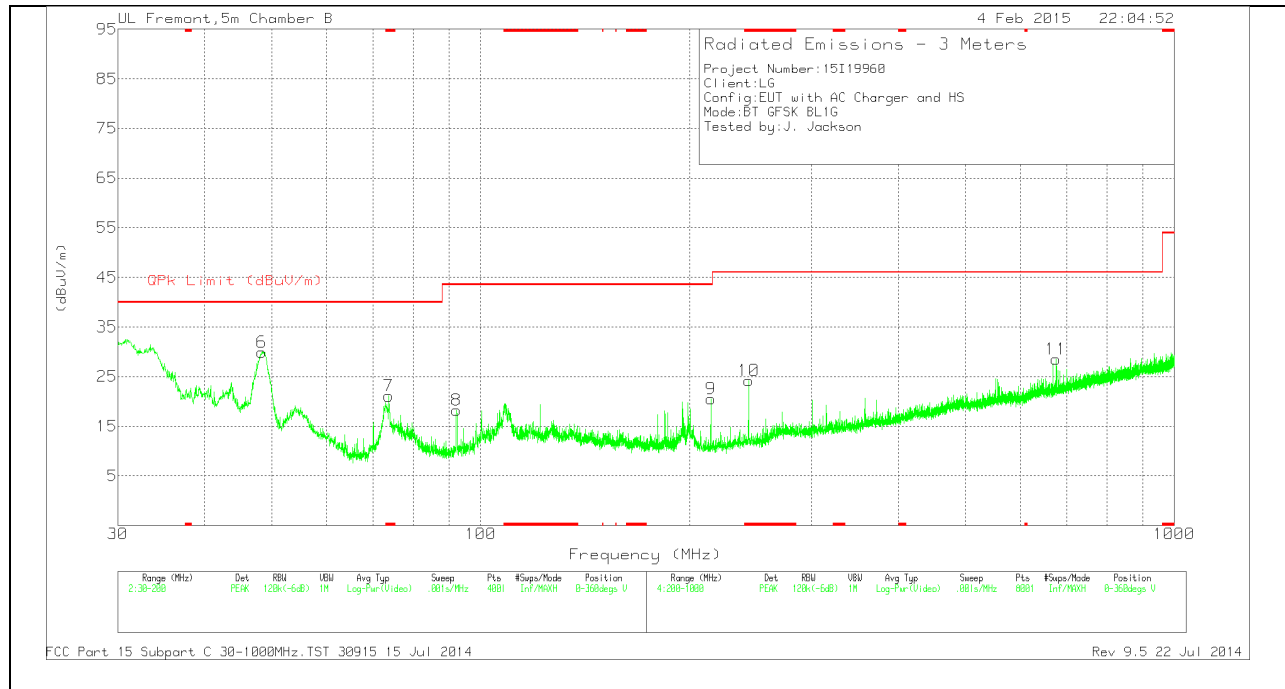
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96	44.17	PK3	34.2	-30.2	48.17	-	-	74	-25.83	284	240	H
* 4.96	35.99	VB1T	34.2	-30.2	39.99	54	-14.01	-	-	284	240	H
* 4.96	43.4	PK3	34.2	-30.2	47.4	-	-	74	-26.6	347	200	V
* 4.96	36.35	VB1T	34.2	-30.2	40.35	54	-13.65	-	-	347	200	V

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	AFT243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 108.88	37.79	PK	12.4	-28	22.19	43.52	-21.33	0-360	300	H
7	* 73.7325	41.5	PK	8	-28.4	21.1	40	-18.9	0-360	101	V
10	* 243.4	39.11	PK	11.6	-26.5	24.21	46.02	-21.81	0-360	300	V
6	48.36	49.82	PK	8.8	-28.7	29.92	40	-10.08	0-360	101	V
8	92.39	38.12	PK	8.2	-28.1	18.22	43.52	-25.3	0-360	101	V
2	143.1775	35.98	PK	12.9	-27.6	21.28	43.52	-22.24	0-360	200	H
3	157.4575	37.69	PK	12.3	-27.4	22.59	43.52	-20.93	0-360	100	H
4	186.1025	38.14	PK	11.3	-27.1	22.34	43.52	-21.18	0-360	100	H
9	214.8	36.7	PK	10.6	-26.8	20.5	43.52	-23.02	0-360	200	V
5	357.9	34.04	PK	14.8	-25.9	22.94	46.02	-23.08	0-360	200	H
11	676	33.39	PK	19.9	-24.8	28.49	46.02	-17.53	0-360	101	V

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

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

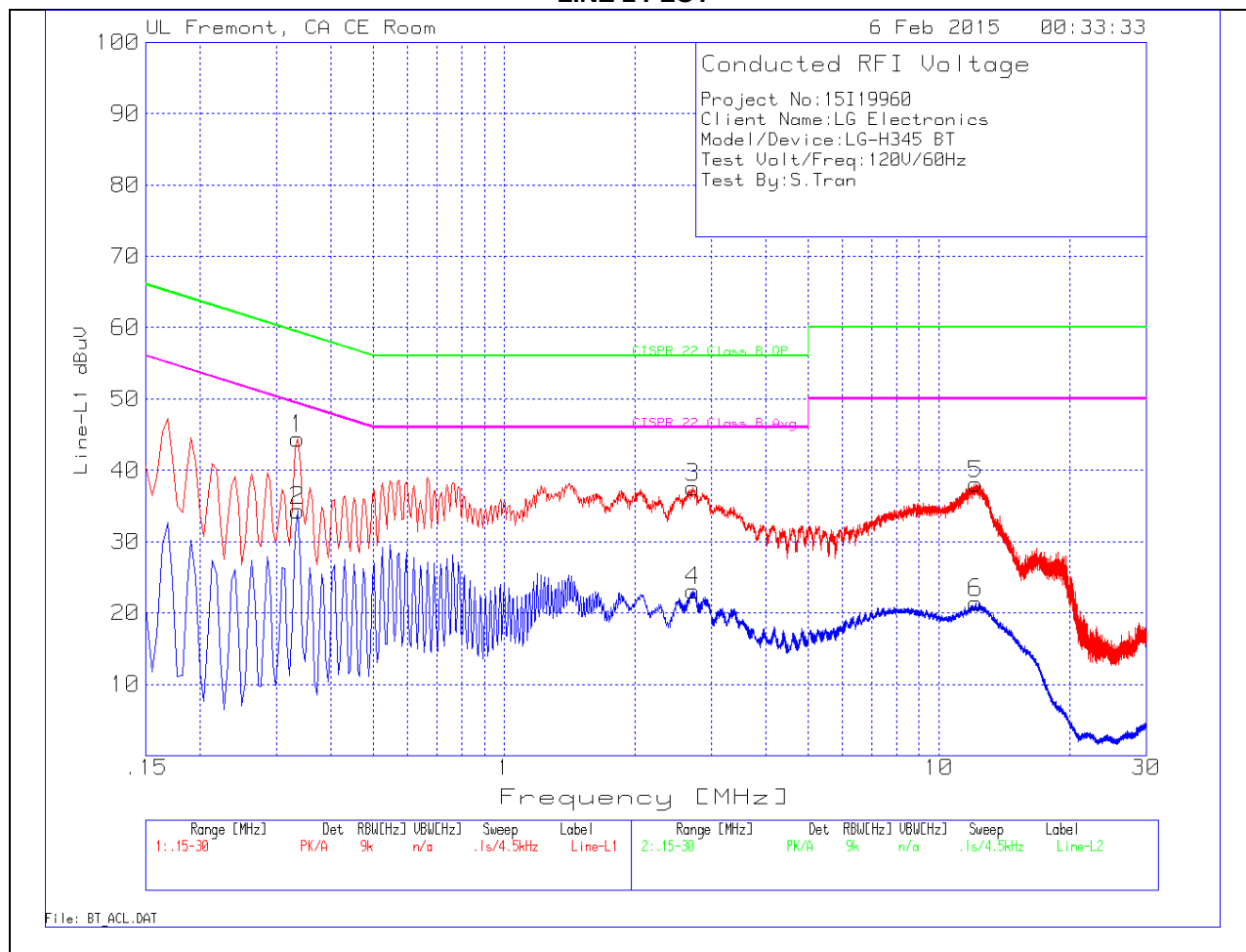
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



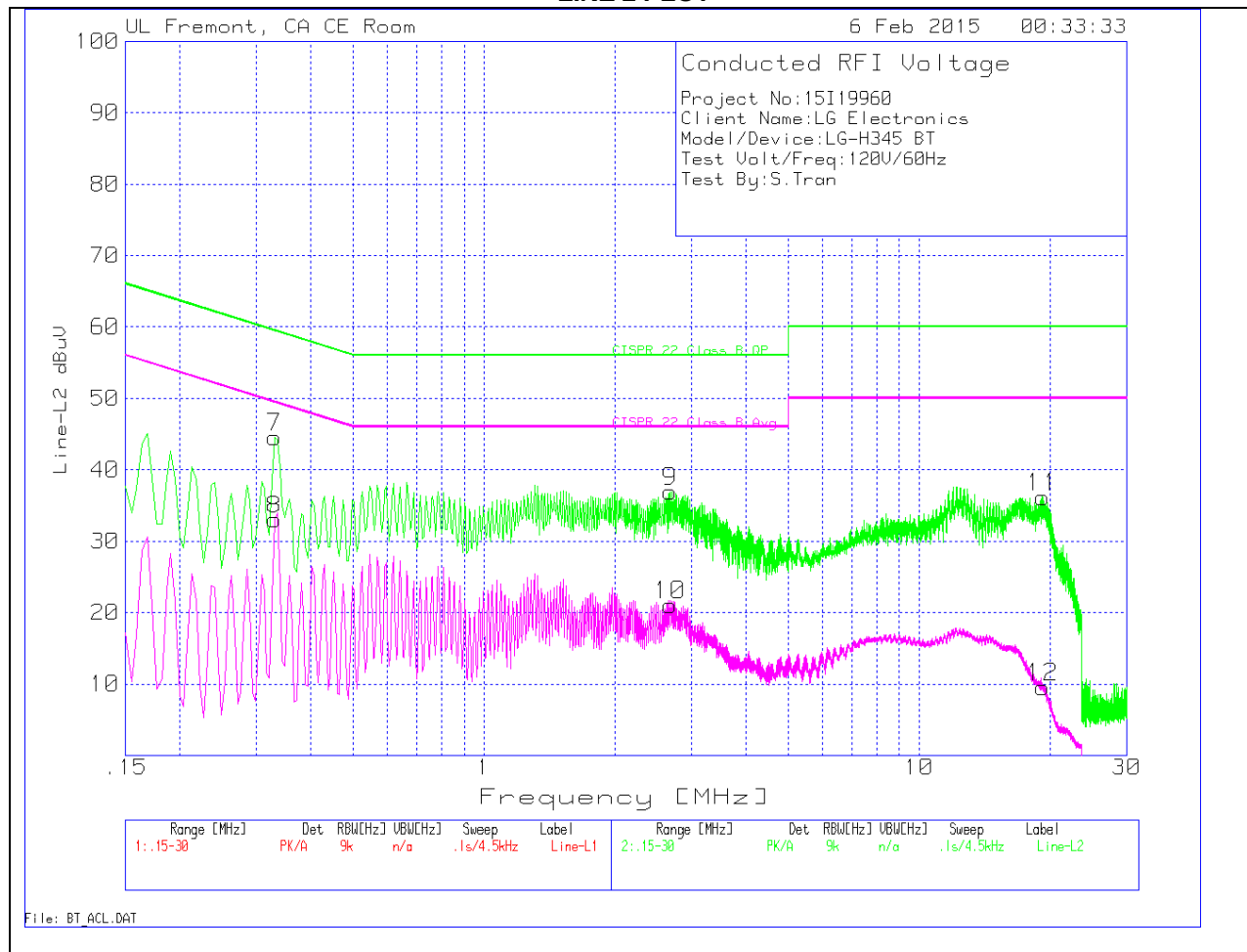
LINE 1 RESULTS

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	.3345	43.93	PK	.5	0	44.43	59.3	-14.87	-	-
2	.3345	33.83	Av	.5	0	34.33	-	-	49.3	-14.97
3	2.7195	37.32	PK	.2	.1	37.62	56	-18.38	-	-
4	2.7195	22.84	Av	.2	.1	23.14	-	-	46	-22.86
5	12.1425	37.65	PK	.2	.2	38.05	60	-21.95	-	-
6	12.1425	21.01	Av	.2	.2	21.41	-	-	50	-28.59

LINE 2 PLOT



LINE 2 RESULTS

11.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	.33	44.07	PK	.5	0	44.57	59.5	-14.93	-	-
8	.33	32.51	Av	.5	0	33.01	-	-	49.5	-16.49
9	2.6835	36.6	PK	.2	.1	36.9	56	-19.1	-	-
10	2.6835	20.81	Av	.2	.1	21.11	-	-	46	-24.89
11	19.275	35.68	PK	.3	.2	36.18	60	-23.82	-	-
12	19.275	9.1	Av	.3	.2	9.6	-	-	50	-40.4

PK - Peak detector

Av - average detection