



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM1900 Phone + Bluetooth & WLAN 2.4GHz b/g/n + NFC

MODEL NUMBER: SM-G3508I

FCC ID: A3LSMG3508I

REPORT NUMBER: 13I16428-3, Revision A

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Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	11/15/13	Initial Issue	P. Kim
A	12/2/13	Updated test equipment; Updated KDB version in section 9.1; Updated Power table in section 5.2; Updated plots in section 9.4	P. Kim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, South Korea

EUT DESCRIPTION: GSM1900 Phone + Bluetooth & WLAN 2.4GHz b/g/n + NFC.

MODEL: SM-G3508I

SERIAL NUMBER: FK-338-A (RADIATED)
FK-338-B (RADIATED)
FK-338-D (CONDUCTED)

DATE TESTED: November 8 – 14, 2013

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:



PHILIP KIM
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UL Verification Services Inc.

Tested By:



CHARLES VERGONIO
WiSE LAB TECHNICIAN
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2009, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

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:

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

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 1000 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 mobile bar phone that supports 802.11bgn(HT20), GSM/EGRPS 1900MHz, and BT3.0+EDR.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	17.29	53.58
2412 - 2462	802.11g	19.88	97.27
2412 - 2462	802.11n HT20	18.57	71.94

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -3.1 dBi.

5.4. SOFTWARE AND FIRMWARE

Software version was cs02vemzm-eng 4.1.2 JZO54K.

The firmware used was G3508IZMUAMJ1.

5.5. 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 Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation with AC charger.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20mode: MCS0

Radiated emissions for EUT with antenna was performed and passed; therefore, antenna port spurious was not performed.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	SAMSUNG	ETAOU42CBC	GB4943.1-2011	N/A
Earphone	SAMSUNG	N/A	N/A	N/A

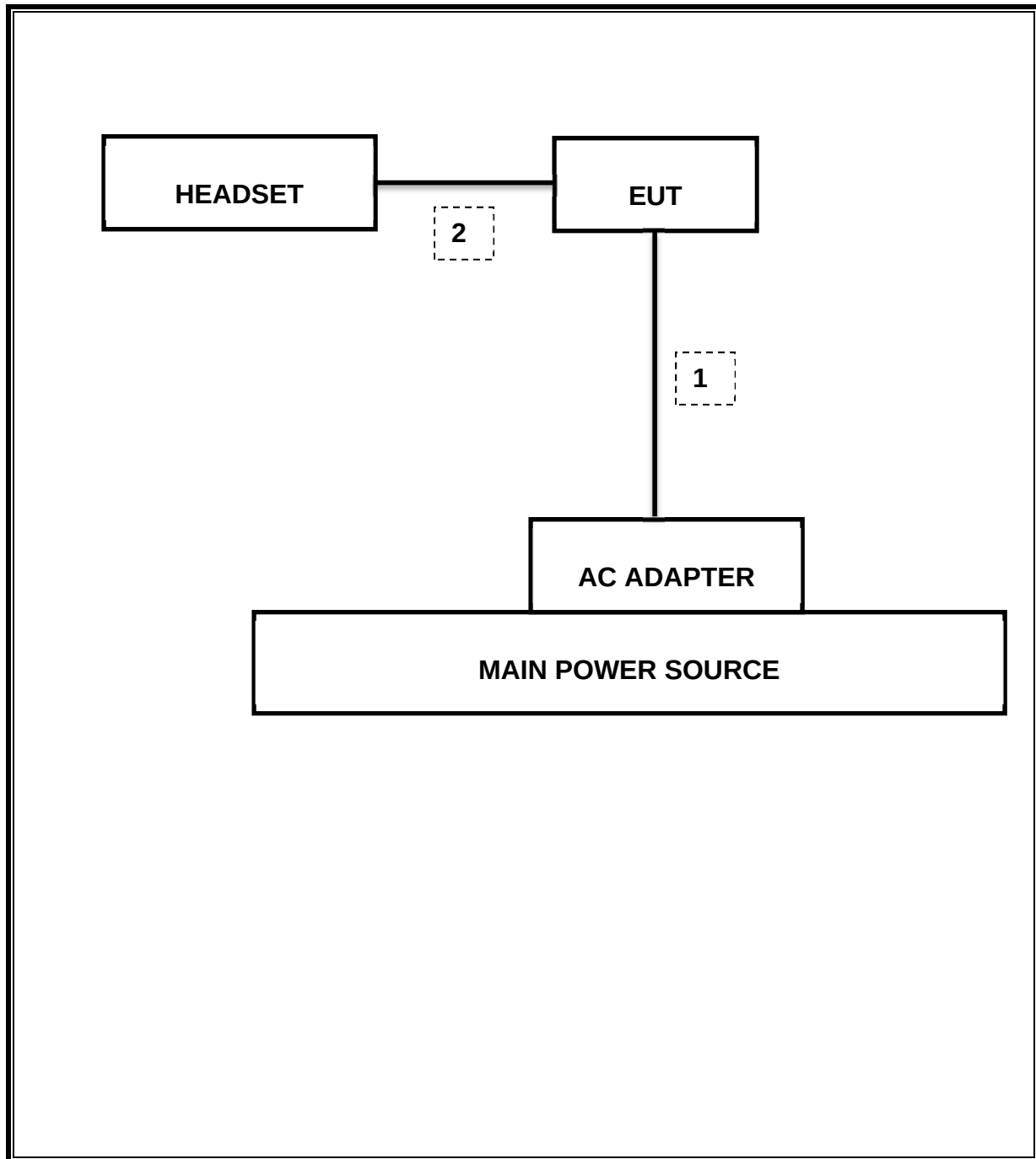
I/O CABLES

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 a stand-alone unit during the tests. Test software exercised the radio card.

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 Date	Cal Due
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01016	08/14/13	08/14/14
Antenna, Horn, 18 GHz	ETS	3117	C01006	12/11/12	02/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/16/13	01/16/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	10/21/13	10/21/14
PXA SIGNAL ANALYZER	Agilent / HP	N9030A	N/A		05/09/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/13	08/08/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/13	01/14/14
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR	CNR

7. MEASUREMENT METHODS

KDB 558074 Measurement Procedure PK2 is used for power and PKPSD is used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

8. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.08MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-40.23dBm
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	19.88dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-5.92dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	-16.97dB
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	-6.53dBuV/m

9. ANTENNA PORT TEST RESULTS

9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

Reference to D01 DTS Meas Guidance v03r01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100 kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	8.08	0.5
Mid	2437	8.10	0.5
High	2462	8.58	0.5
Worst		8.58	

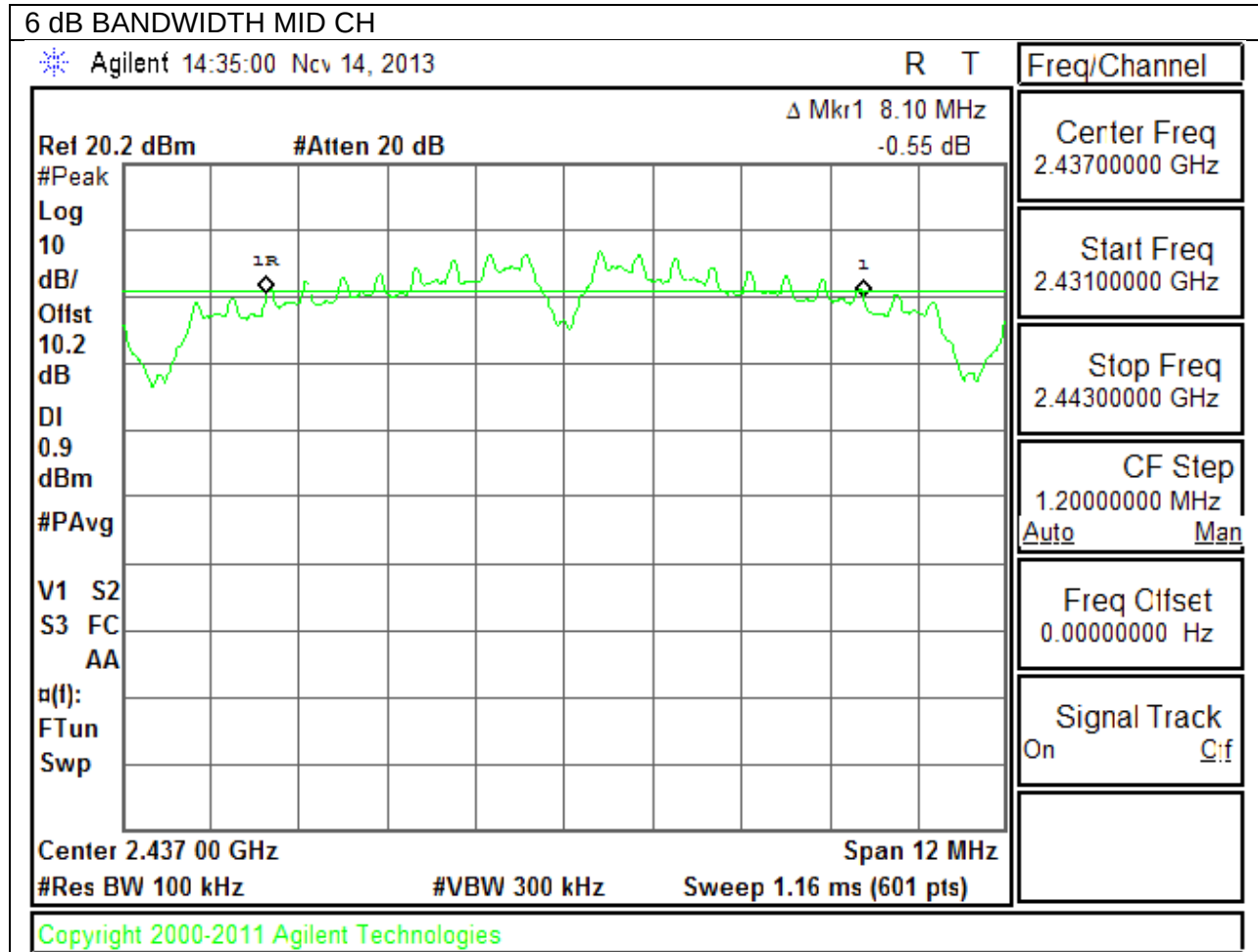
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.13	0.5
Mid	2437	15.13	0.5
High	2462	15.17	0.5
Worst		15.17	

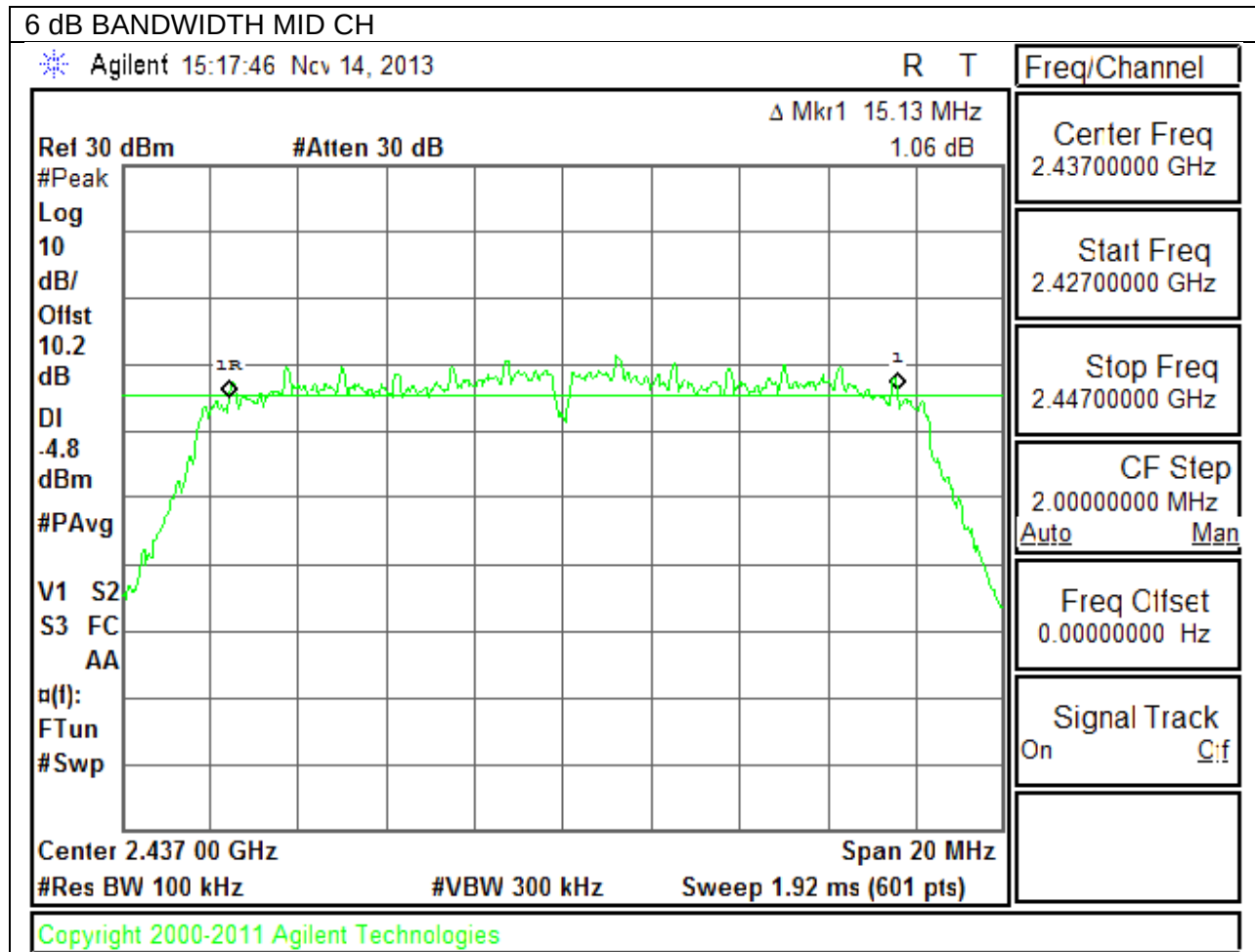
9.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.12	0.5
Mid	2437	15.21	0.5
High	2462	15.17	0.5
Worst		15.21	

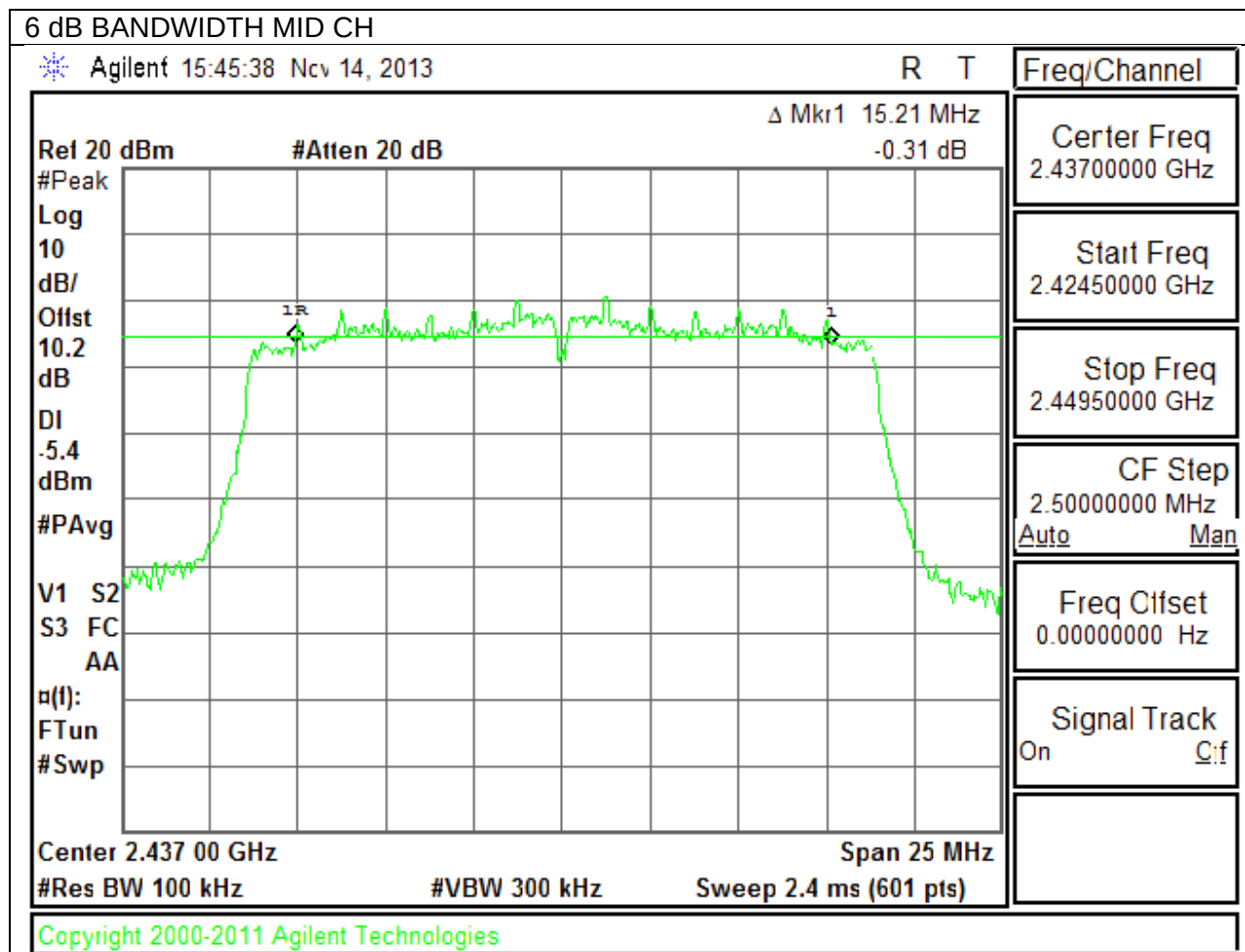
802.11b 6 dB BANDWIDTH



802.11g 6 dB BANDWIDTH



802.11n 6 dB BANDWIDTH



9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	13.73
Mid	2437	13.55
High	2462	13.76
Worst		13.76

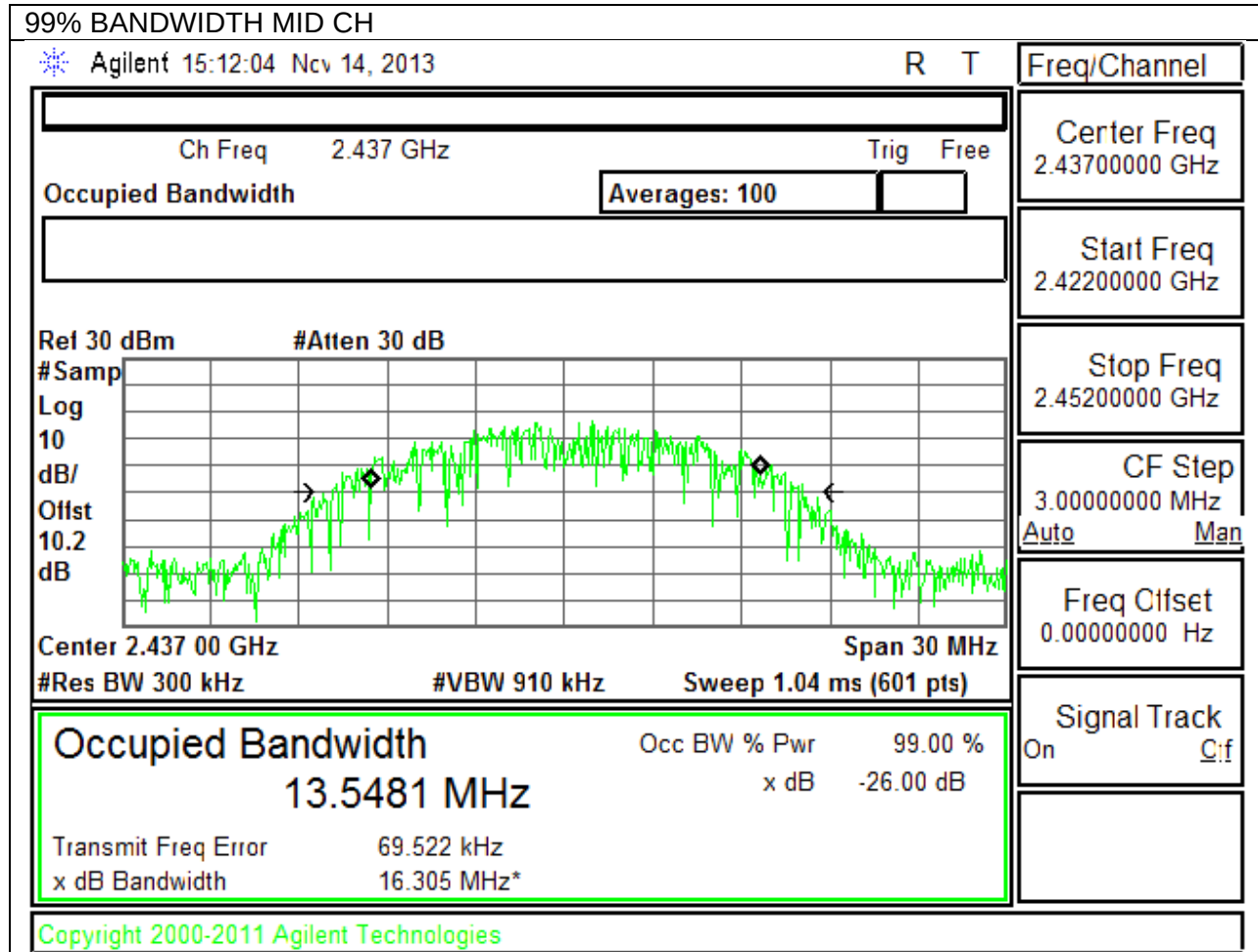
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.63
Mid	2437	16.77
High	2462	16.52
Worst		16.77

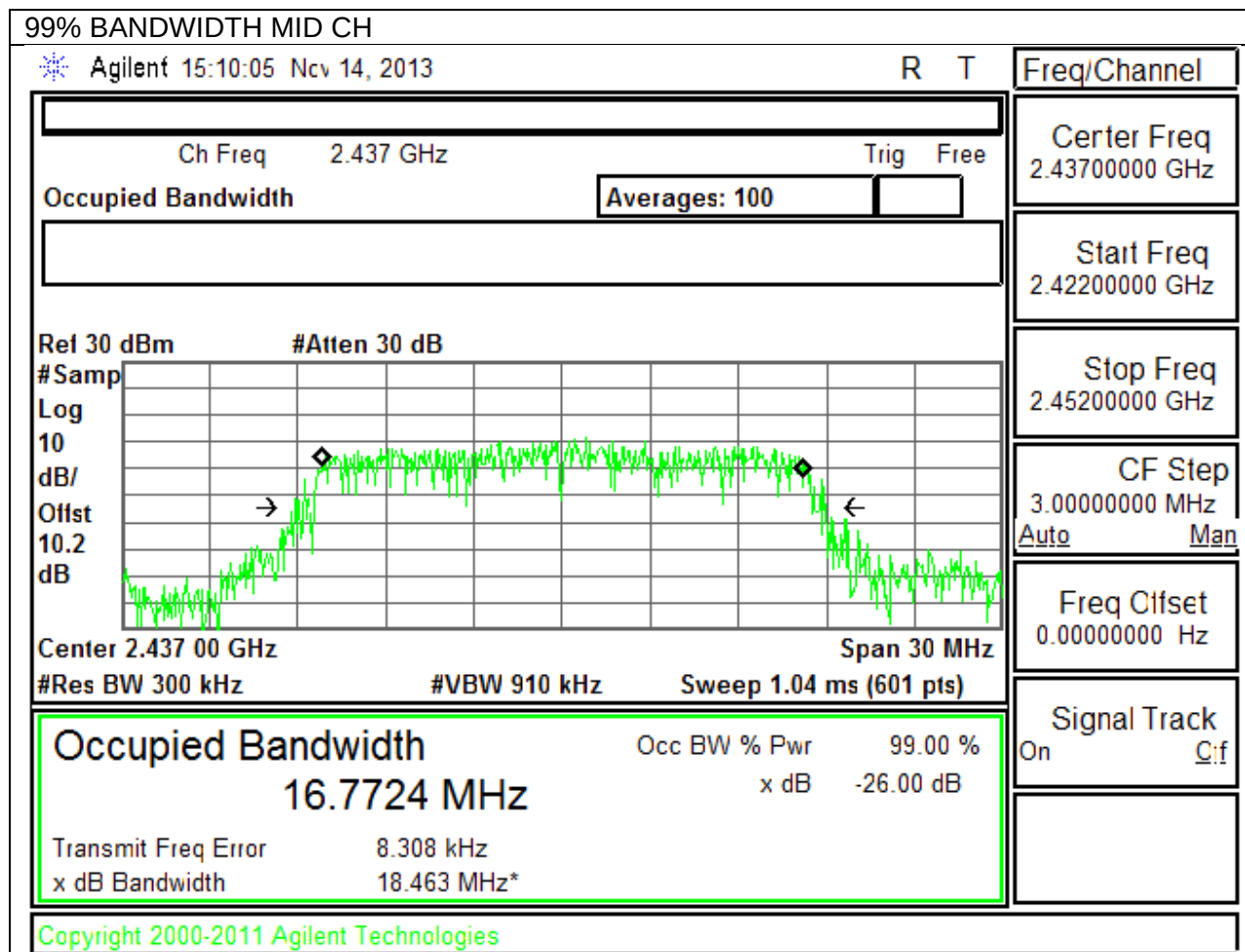
9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.43
Mid	2437	17.65
High	2462	17.47
Worst		17.65

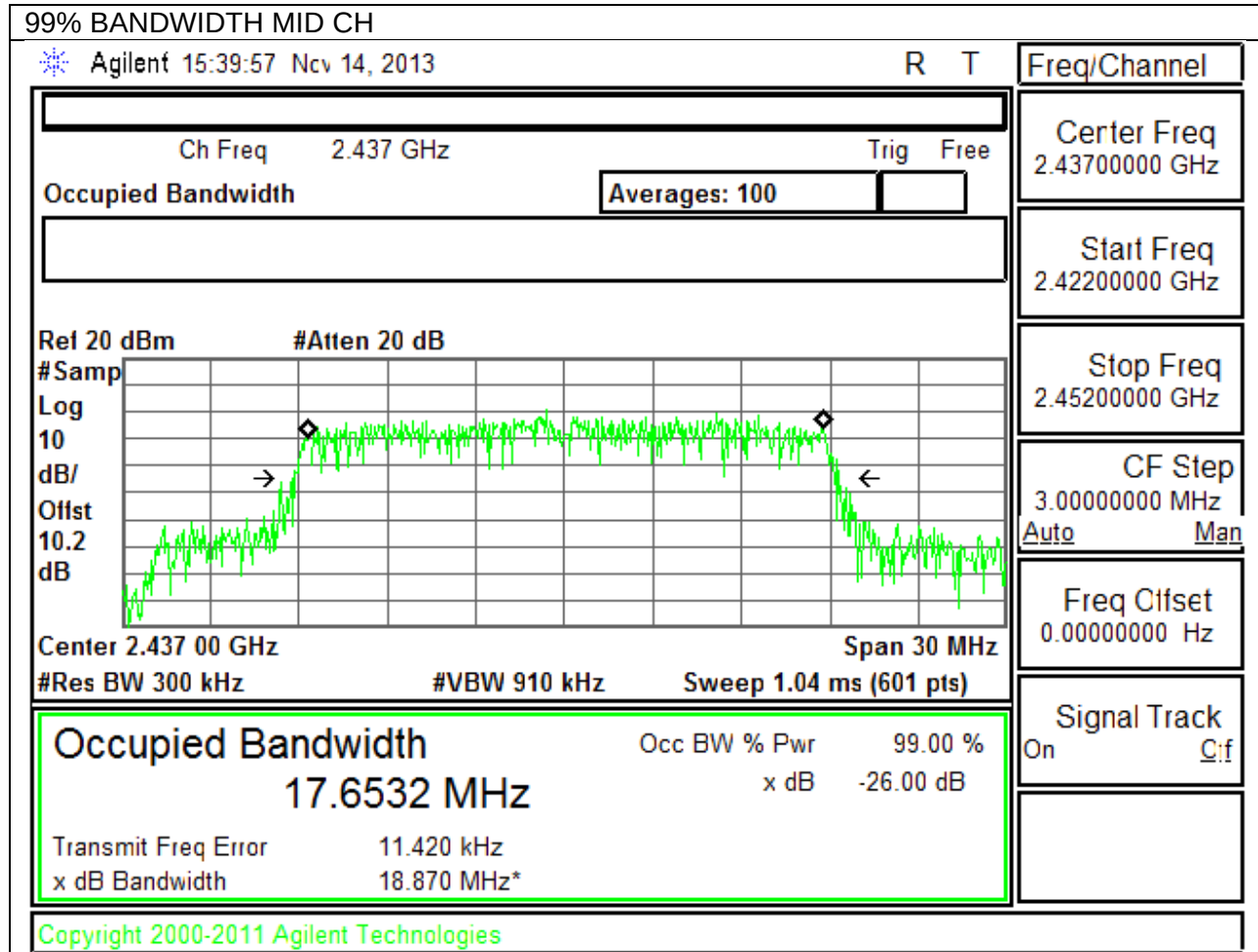
802.11b 99% BANDWIDTH



802.11g 99% BANDWIDTH



802.11n 99% BANDWIDTH



9.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 0.2 dB (including 10 dB pad and 0.2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

9.3.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	14.00
Mid	2437	14.10
High	2462	14.30
Worst		14.300

9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	10.70
Mid	2437	10.90
High	2462	11.10
Worst		11.100

9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	9.70
Mid	2437	9.80
High	2462	10.00
Worst		10.000

9.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-210 A8.4

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	-3.10	30.00	30	36	30.00
Mid	2437	-3.10	30.00	30	36	30.00
High	2462	-3.10	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	16.62	16.62	30.00	-13.38
Mid	2437	16.94	16.94	30.00	-13.06
High	2462	17.29	17.29	30.00	-12.71
Worst			17.29		

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	-3.10	30.00	30	36	30.00
Mid	2437	-3.10	30.00	30	36	30.00
High	2462	-3.10	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	19.30	19.30	30.00	-10.70
Mid	2437	19.48	19.48	30.00	-10.52
High	2462	19.88	19.88	30.00	-10.12
Worst			19.88		

9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

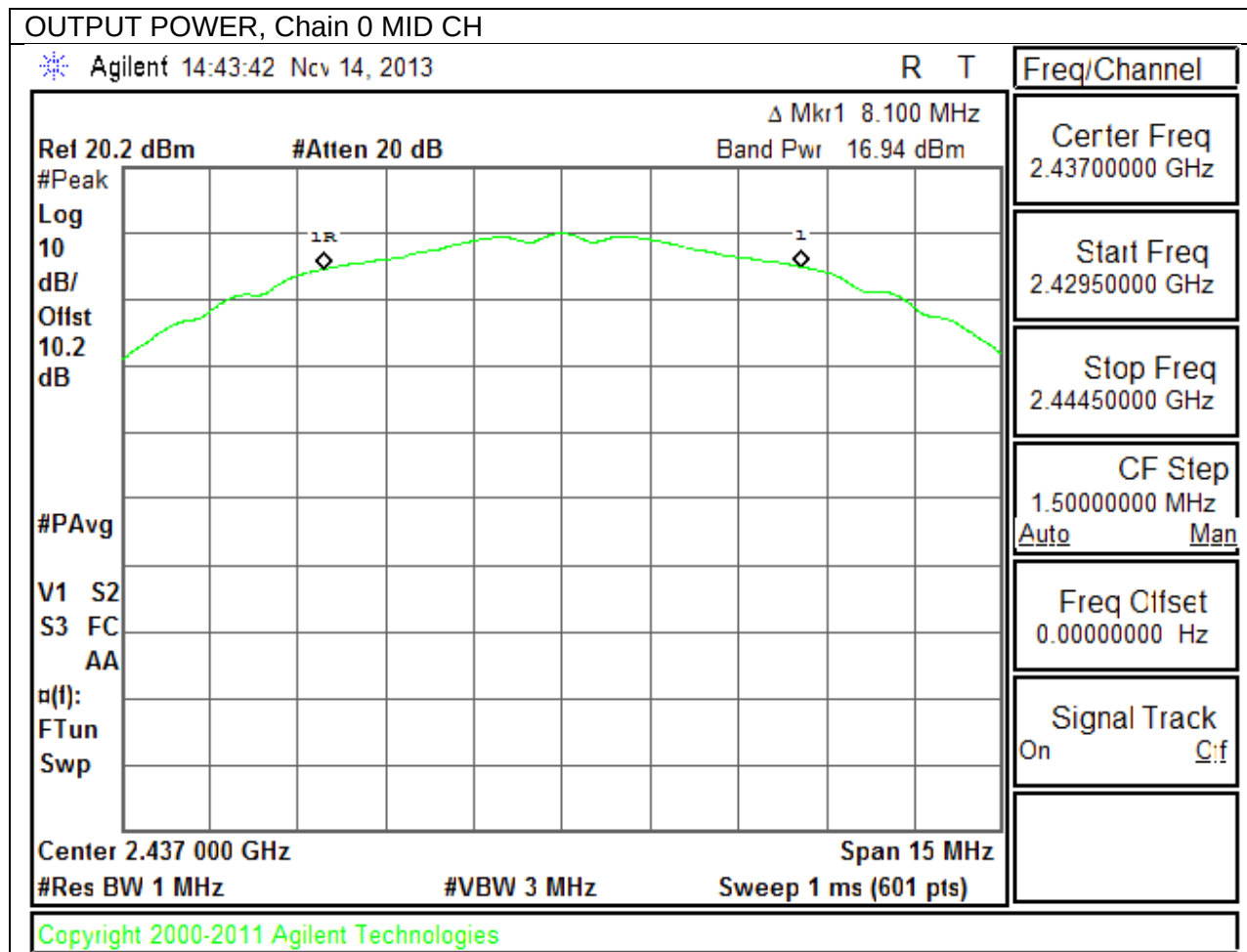
Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	-3.10	30.00	30	36	30.00
Mid	2437	-3.10	30.00	30	36	30.00
High	2462	-3.10	30.00	30	36	30.00

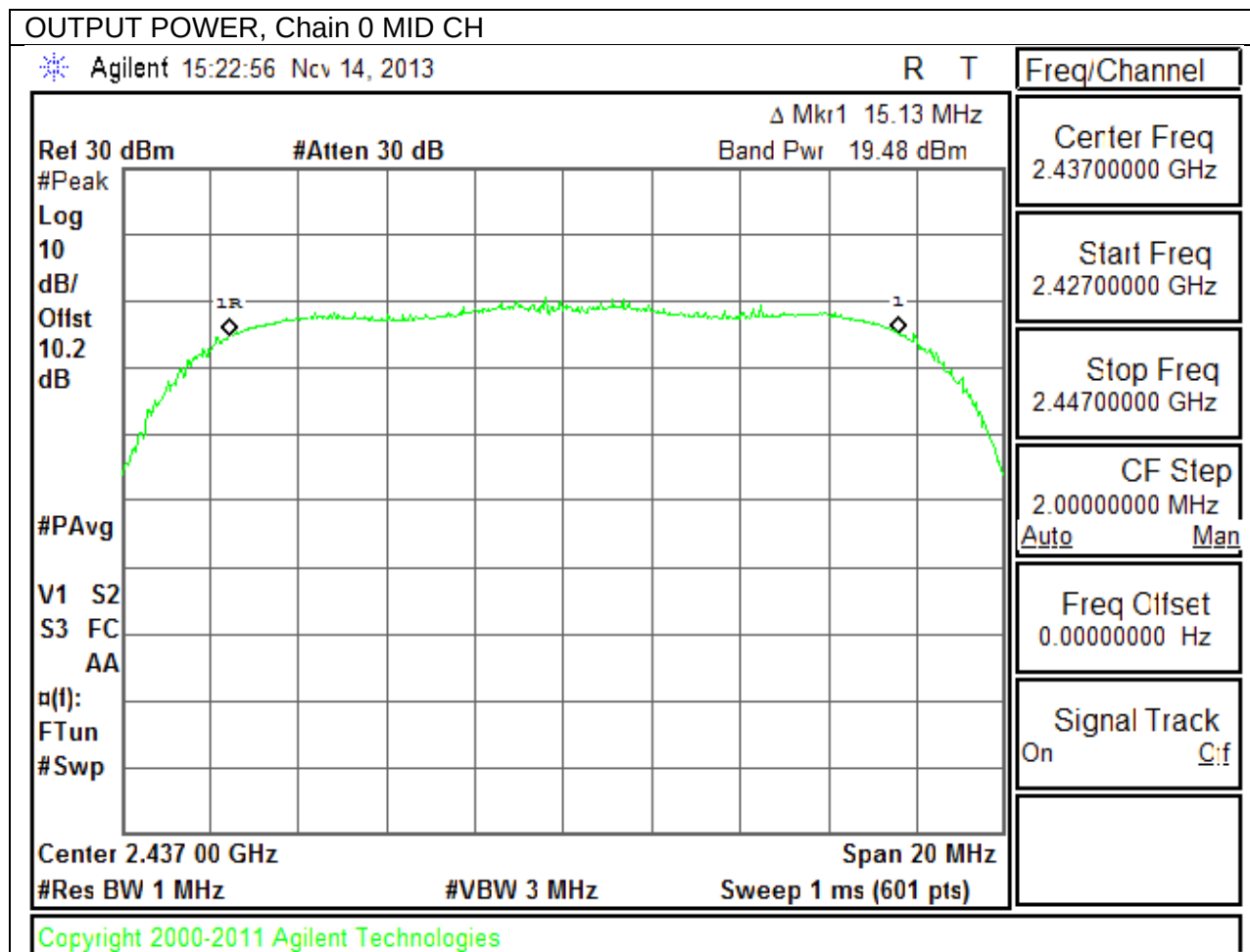
Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	18.13	18.13	30.00	-11.87
Mid	2437	18.28	18.28	30.00	-11.72
High	2462	18.57	18.57	30.00	-11.43
Worst			18.57		

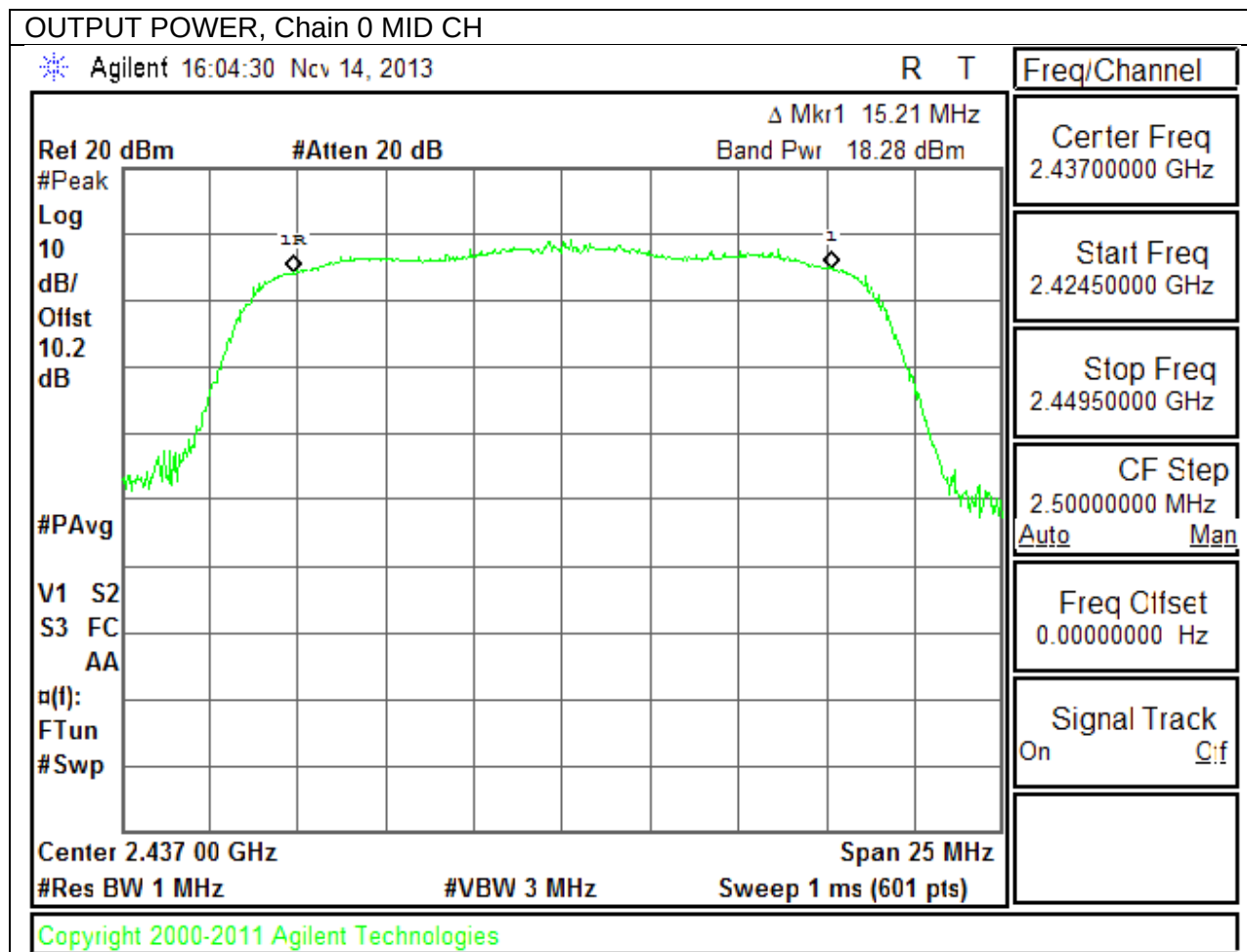
802.11b OUTPUT POWER, Chain 0



802.11g OUTPUT POWER, Chain 0



802.11n OUTPUT POWER, Chain 0



9.5. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-7.34	8.0	-15.3
Mid	2437	-5.92	8.0	-13.9
High	2462	-5.92	8.0	-13.9

9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

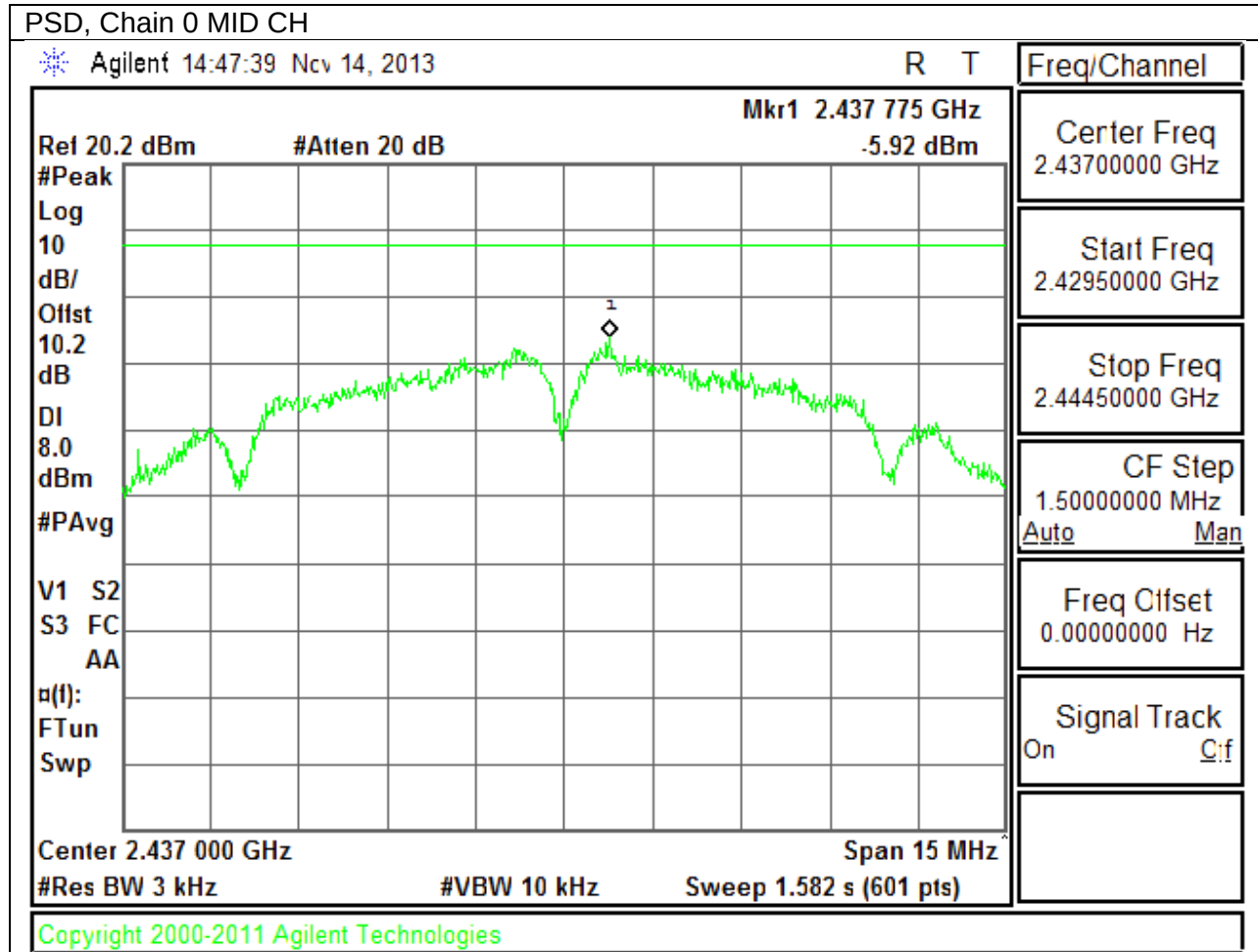
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-12.17	8.0	-20.2
Mid	2437	-12.54	8.0	-20.5
High	2462	-12.50	8.0	-20.5

9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

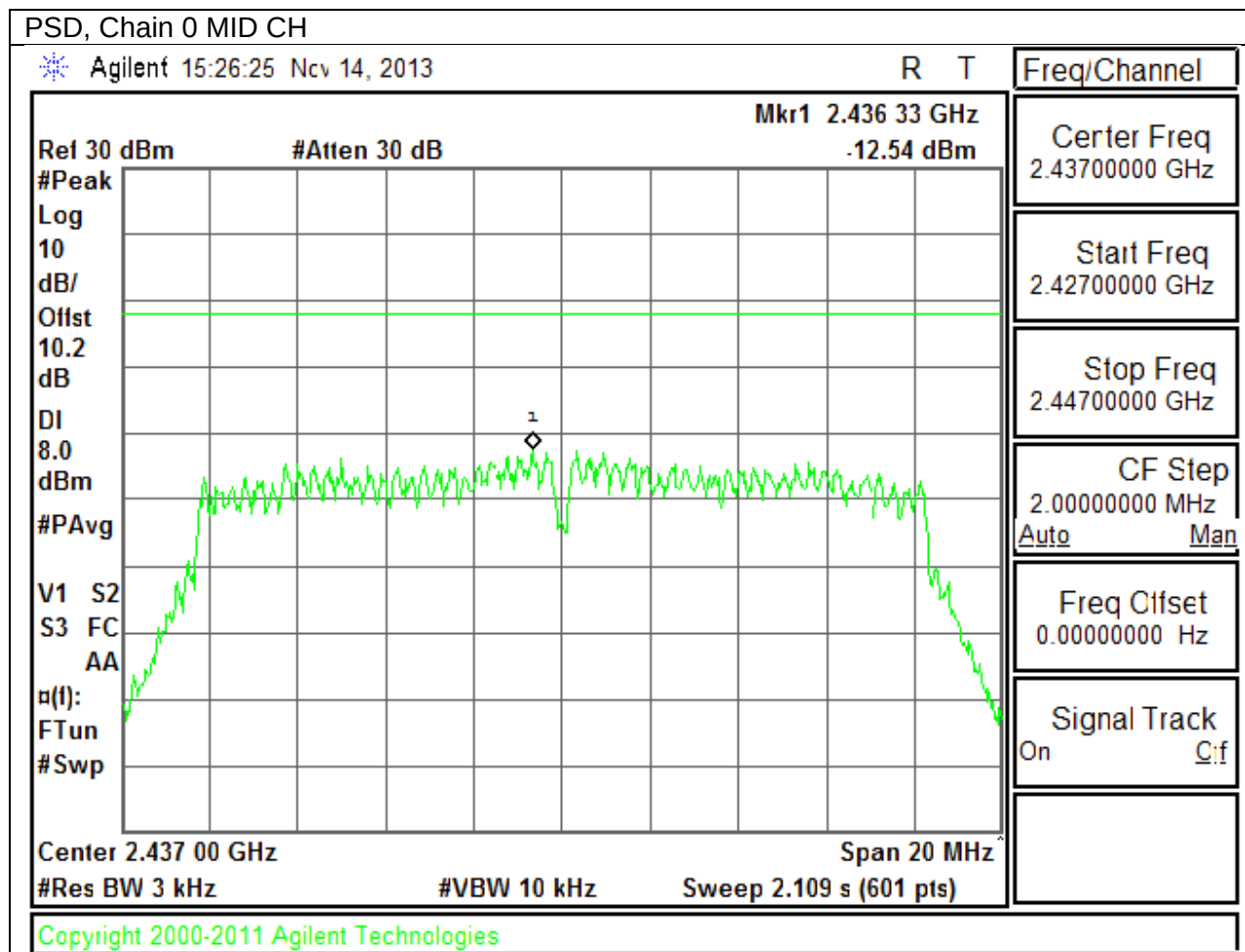
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-14.00	8.0	-22.0
Mid	2437	-13.79	8.0	-21.8
High	2462	-13.41	8.0	-21.4

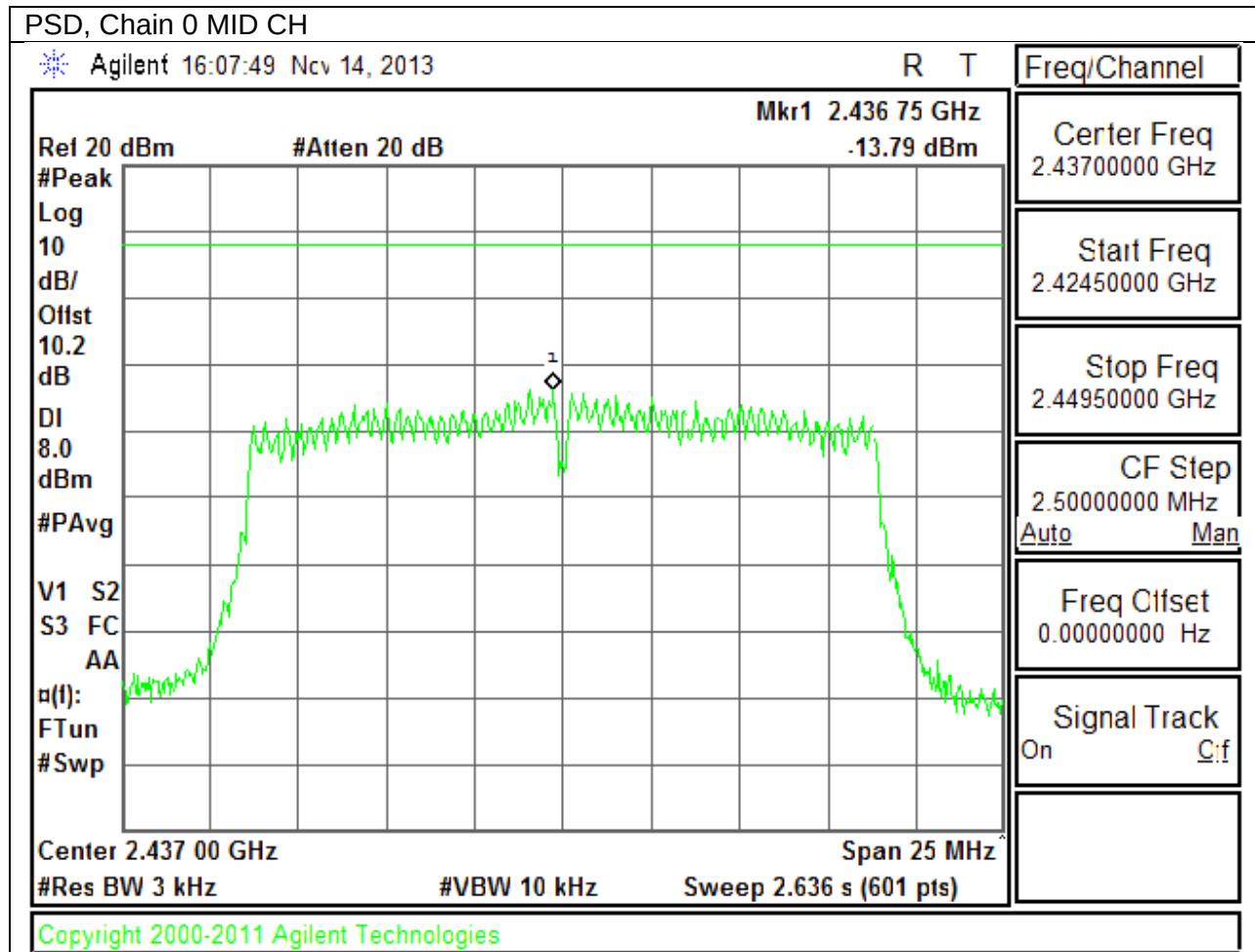
802.11b PSD, Chain 0



802.11g PSD, Chain 0



802.11n PSD, Chain 0



9.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

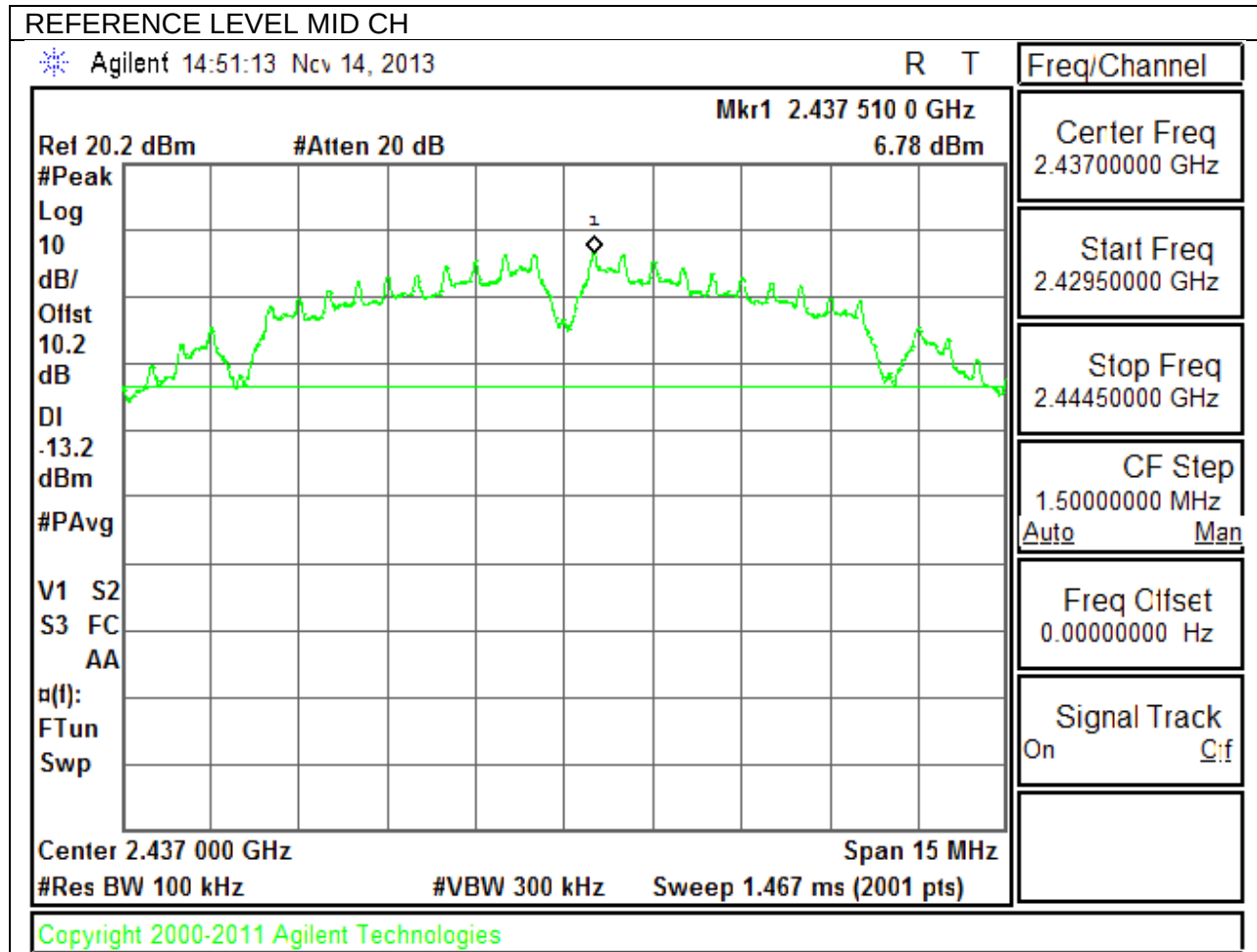
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

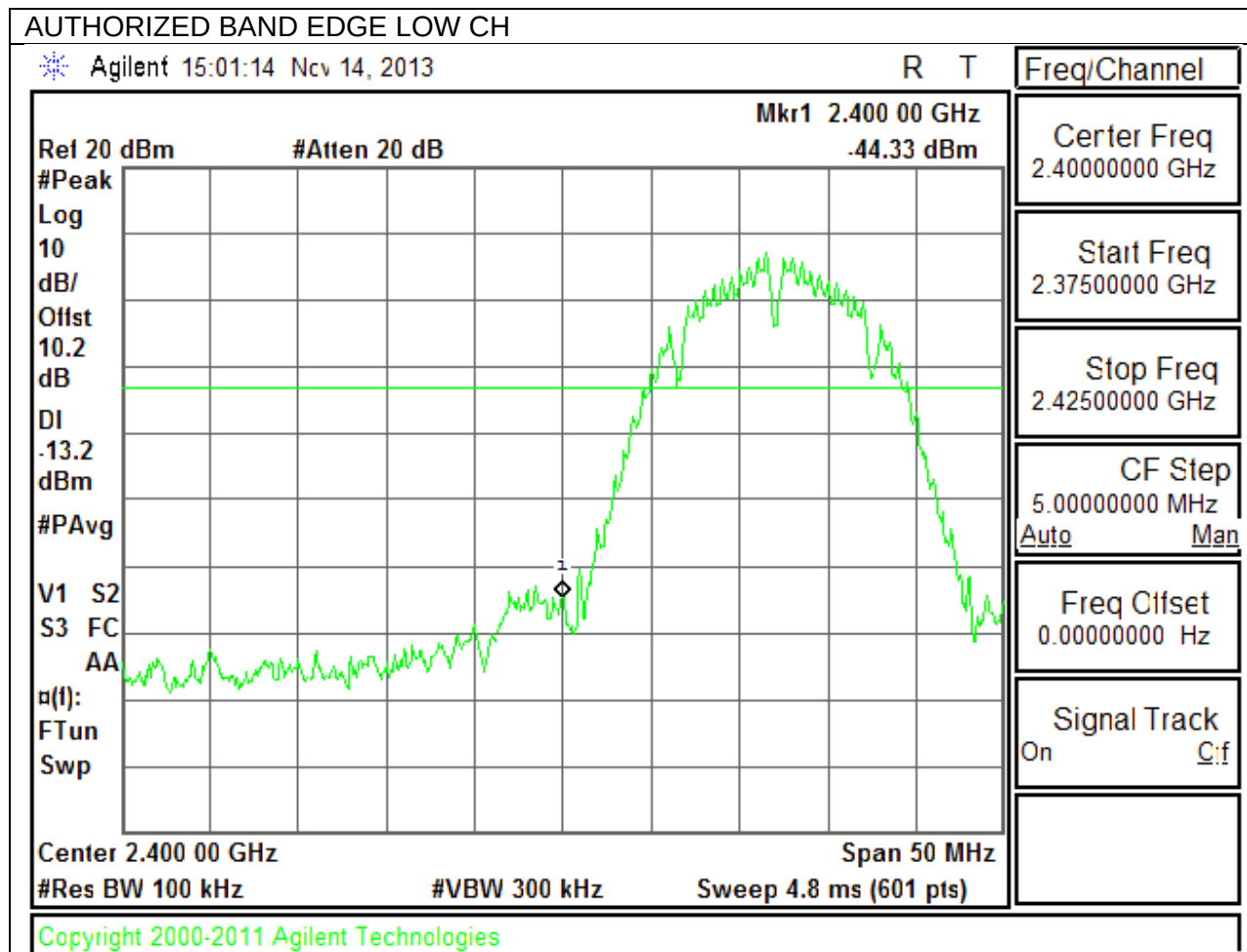
RESULTS

9.6.1. 802.11b MODE IN THE 2.4 GHz BAND

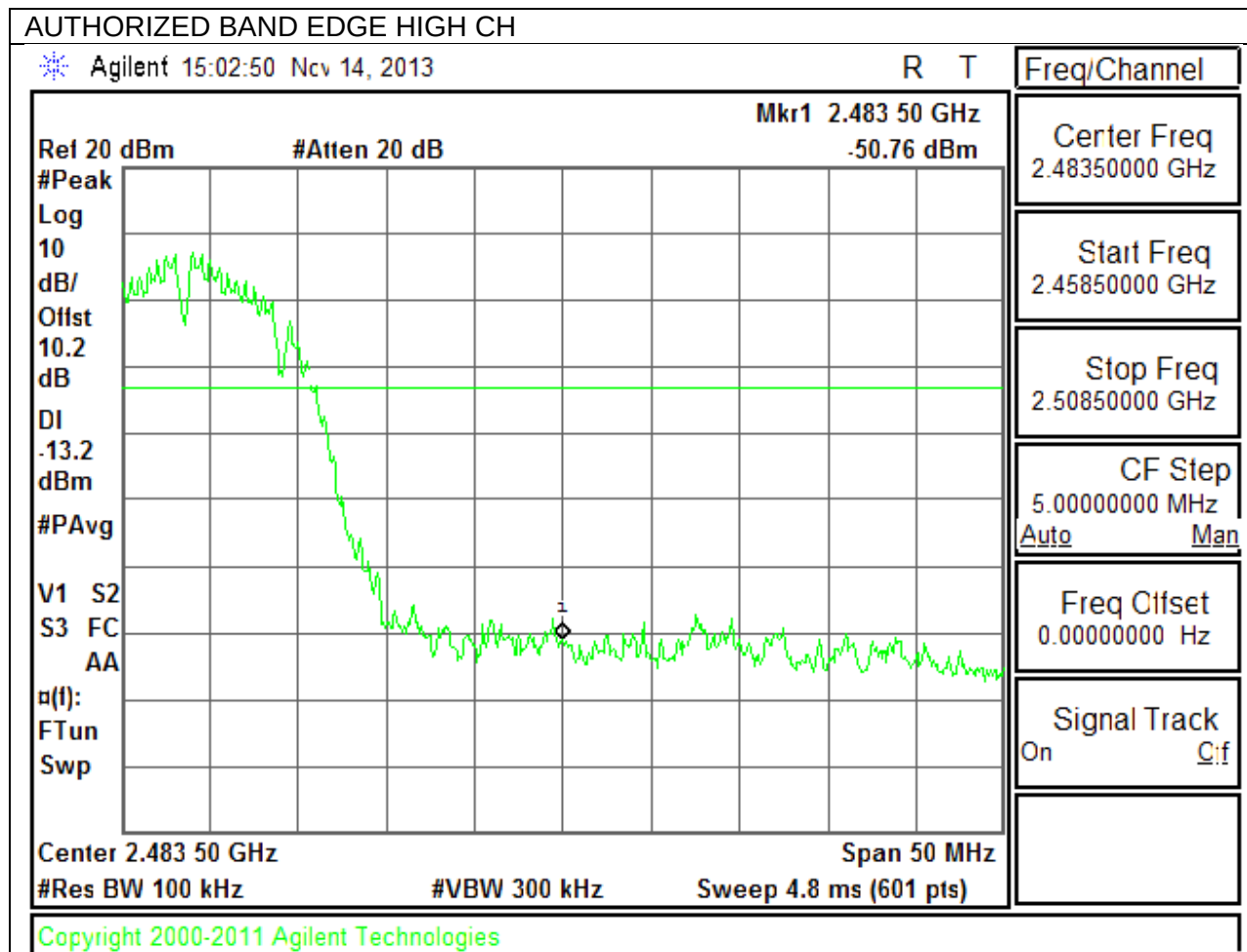
IN-BAND REFERENCE LEVEL



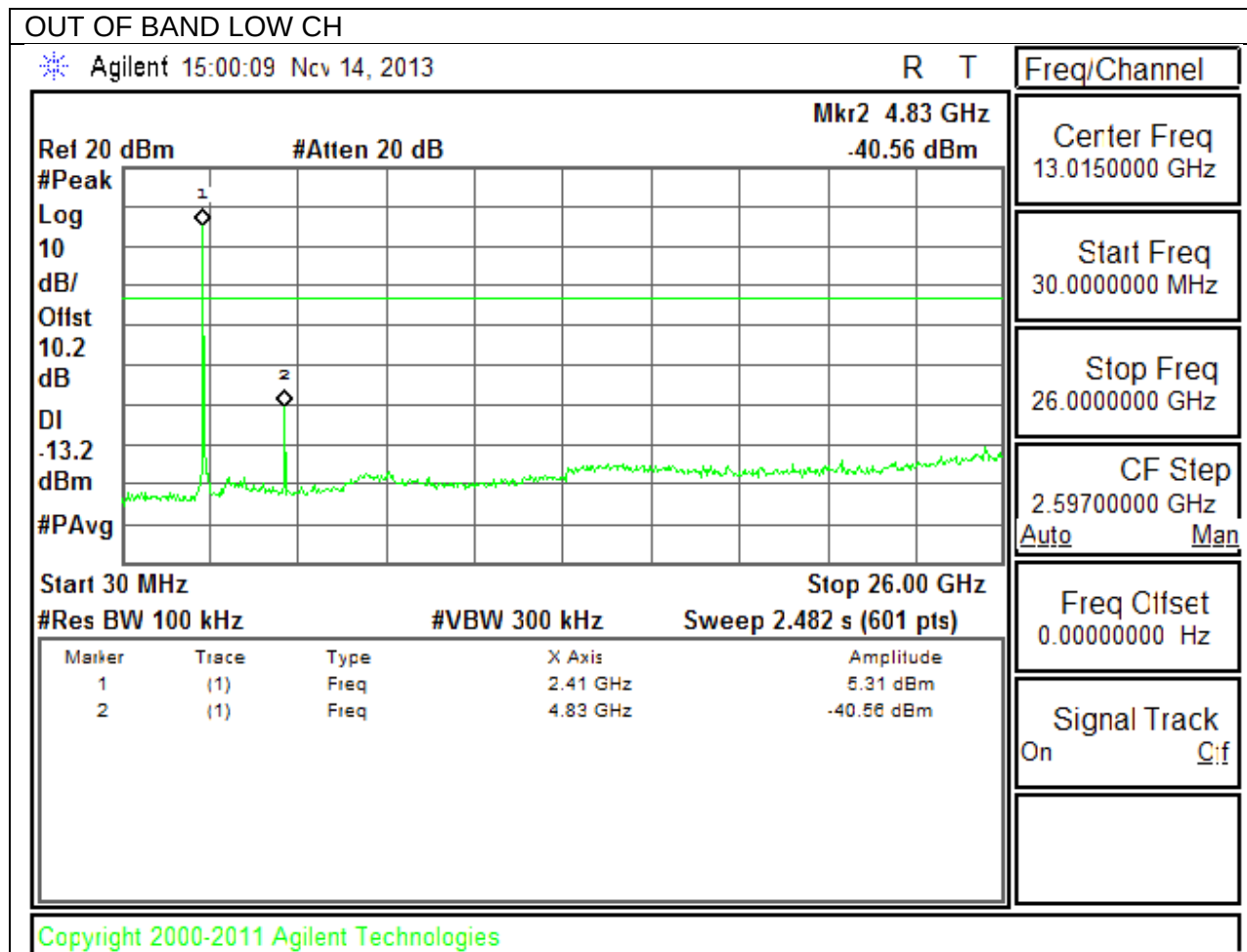
LOW CHANNEL BANDEDGE



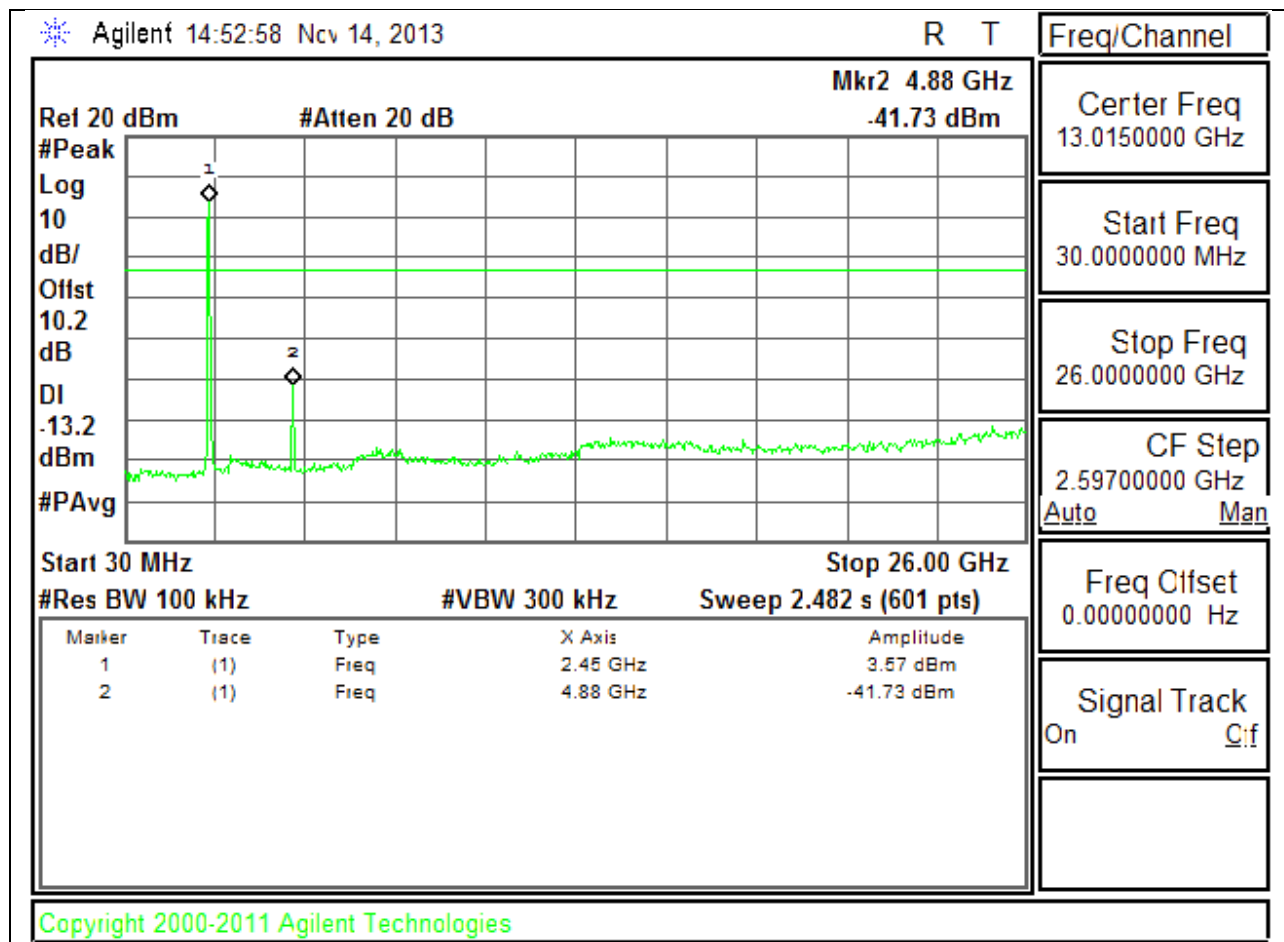
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS



OUT OF BAND MID CH

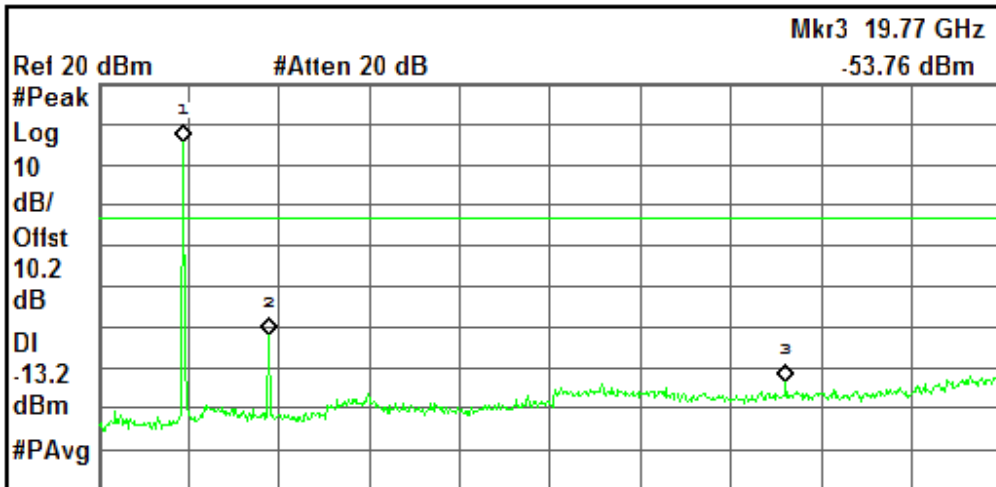


OUT OF BAND HIGH CH

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R T

Freq/Channel



Center Freq
13.0150000 GHz

Start Freq
30.0000000 MHz

Stop Freq
26.0000000 GHz

CF Step
2.59700000 GHz
Auto Man

Start 30 MHz Stop 26.00 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (601 pts)

Freq Offset
0.0000000 Hz

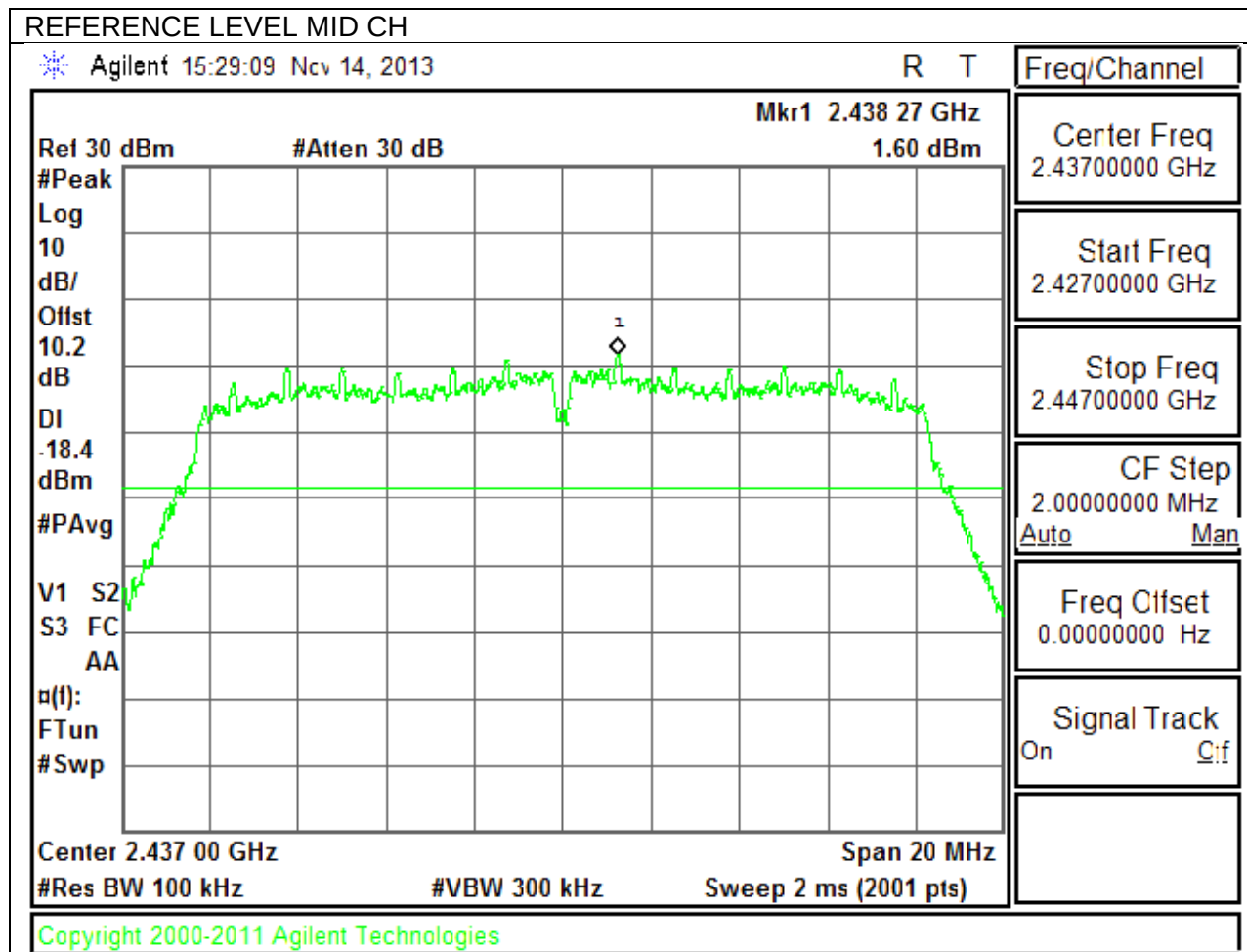
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	5.44 dBm
2	(1)	Freq	4.92 GHz	-42.13 dBm
3	(1)	Freq	19.77 GHz	-53.76 dBm

Signal Track
On Clf

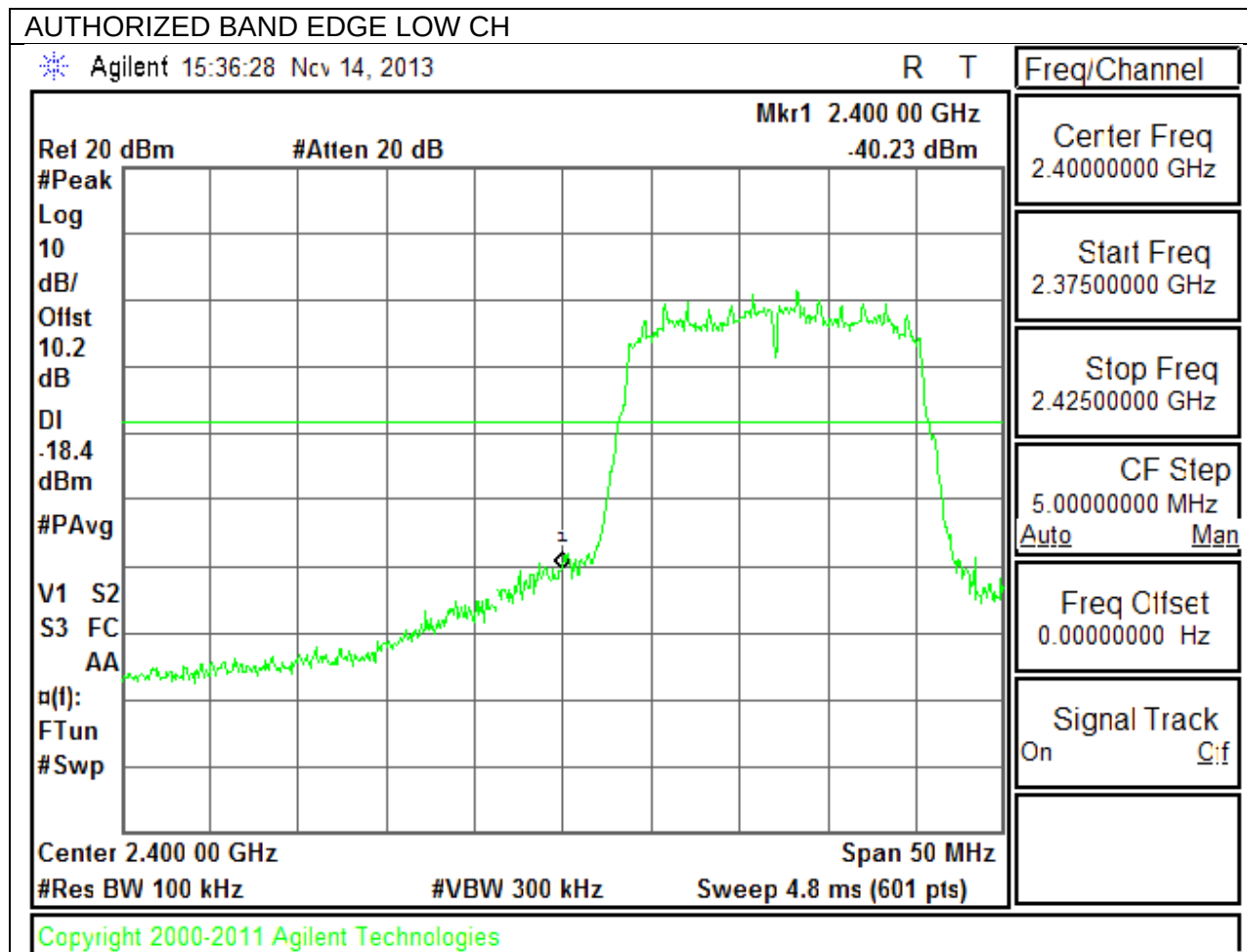
Copyright 2000-2011 Agilent Technologies

9.6.2. 802.11g MODE IN THE 2.4 GHz BAND

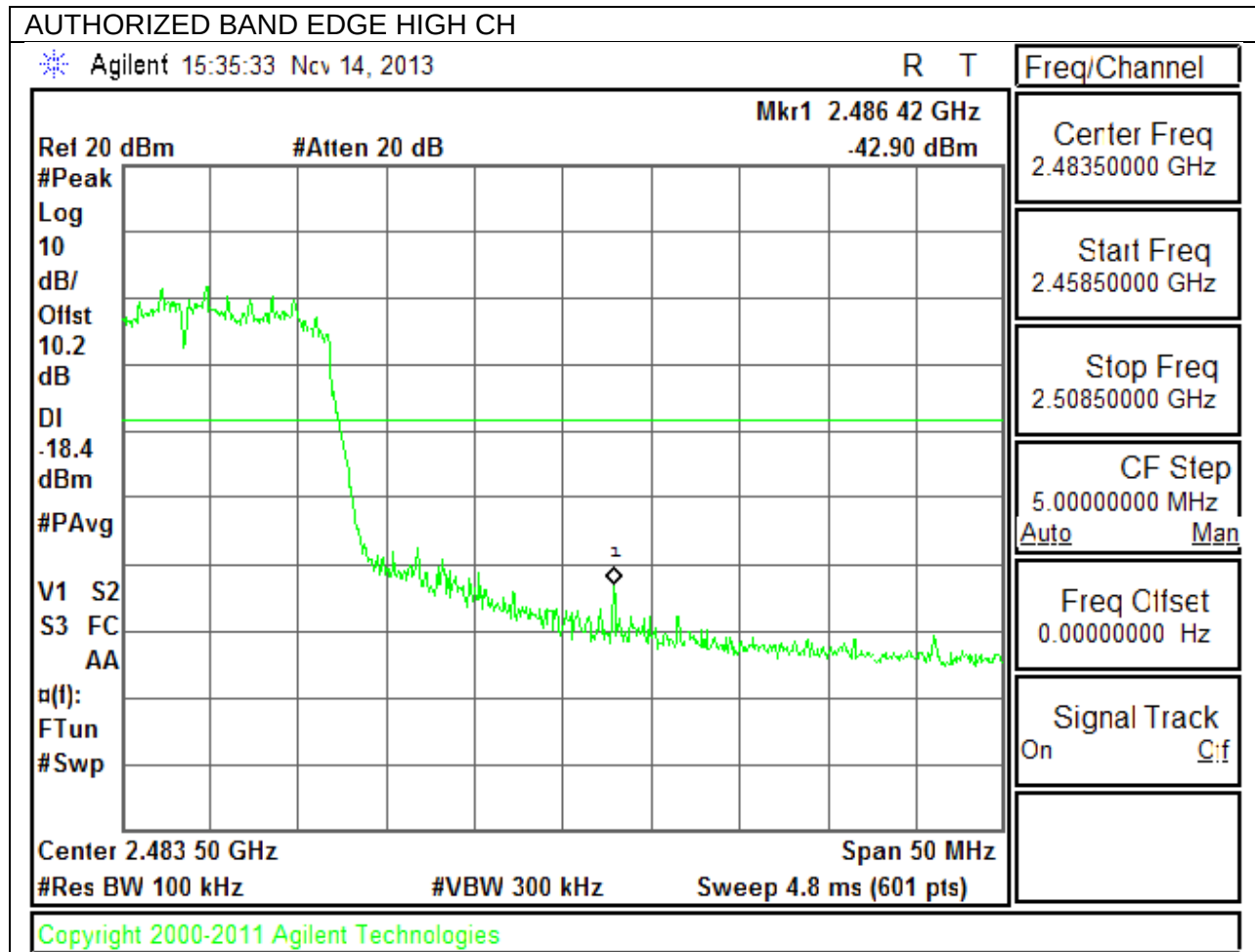
IN-BAND REFERENCE LEVEL



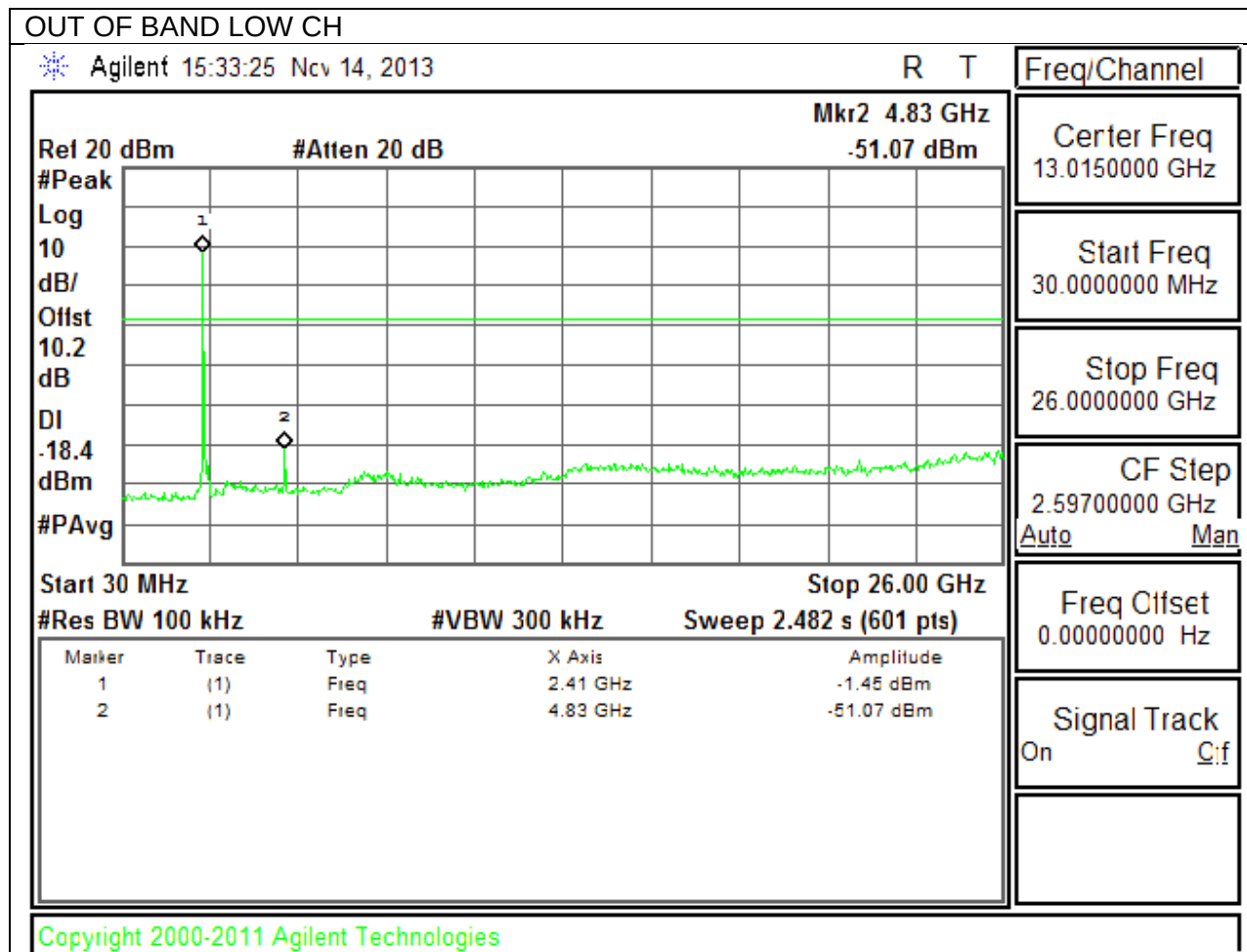
LOW CHANNEL BANDEDGE

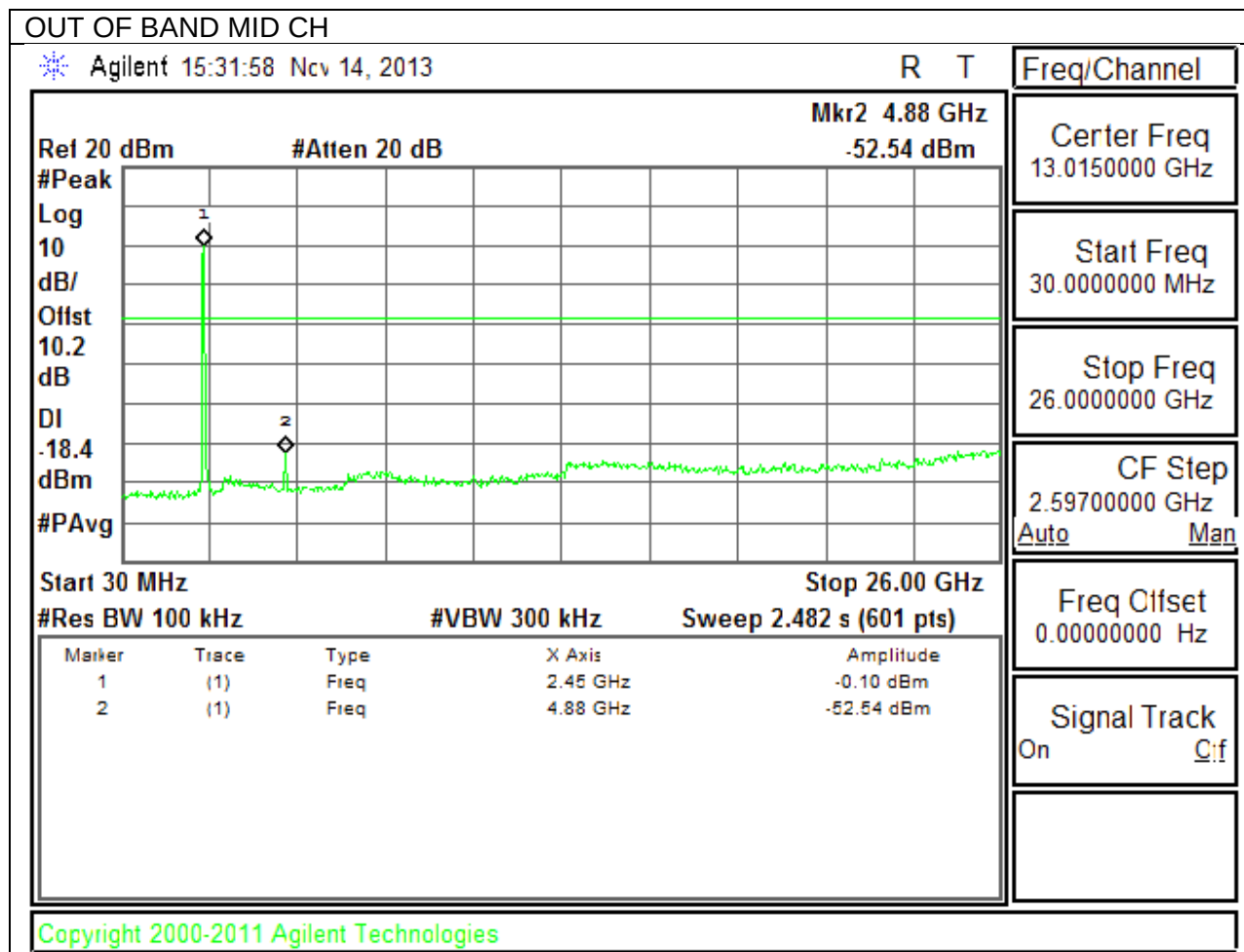


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

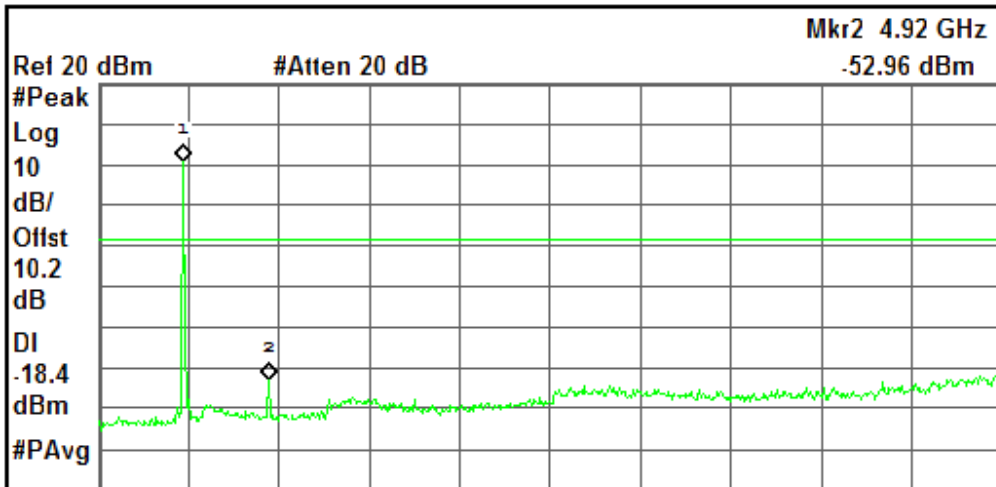




OUT OF BAND HIGH CH

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R T



Start 30 MHz

Stop 26.00 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.482 s (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	0.73 dBm
2	(1)	Freq	4.92 GHz	-52.96 dBm

Freq/Channel

Center Freq
13.0150000 GHz

Start Freq
30.0000000 MHz

Stop Freq
26.0000000 GHz

CF Step
2.59700000 GHz
Auto Man

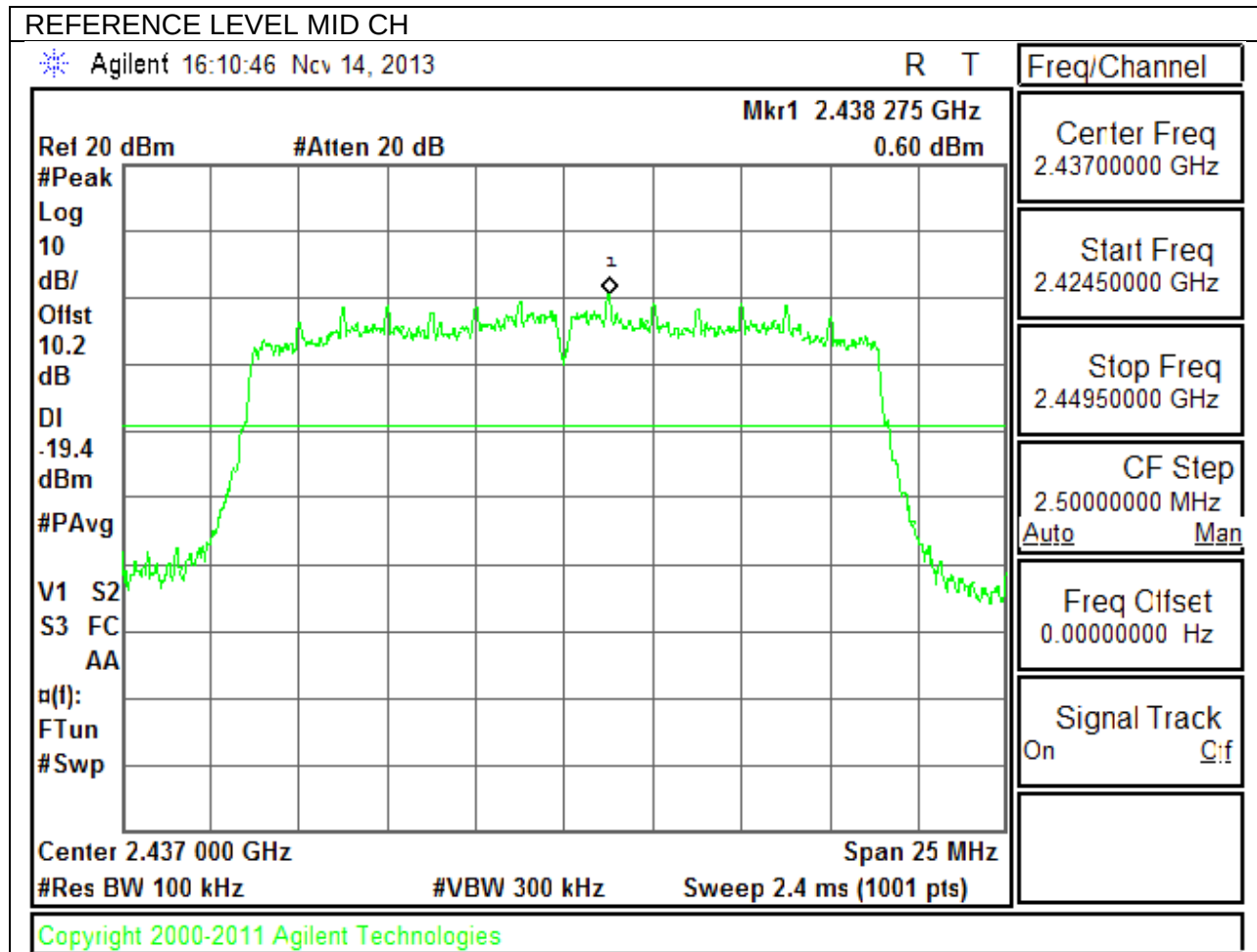
Freq Offset
0.00000000 Hz

Signal Track
On Off

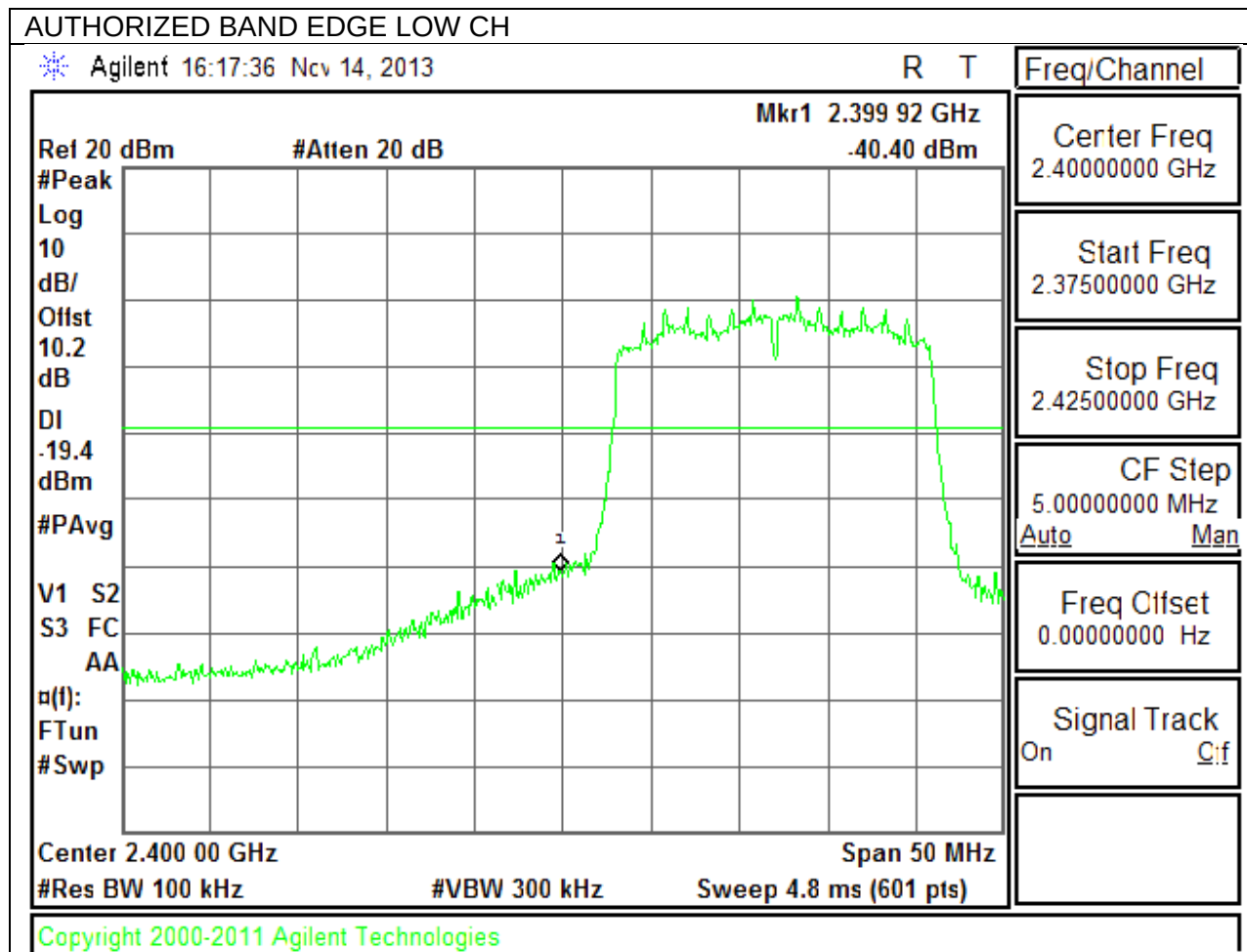
Copyright 2000-2011 Agilent Technologies

9.6.3. 802.11n MODE IN THE 2.4 GHz BAND

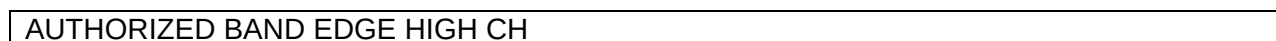
IN-BAND REFERENCE LEVEL

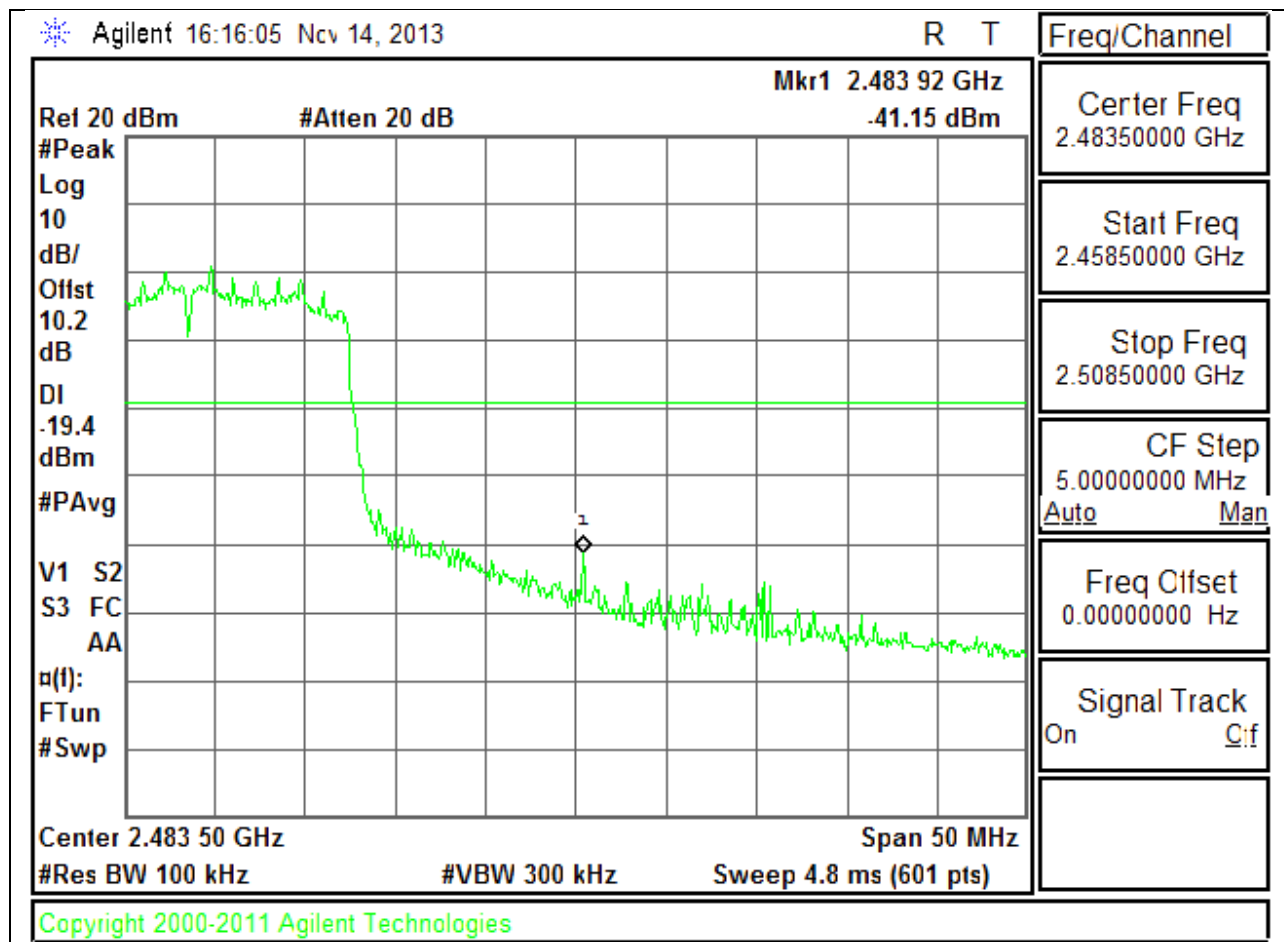


LOW CHANNEL BANDEDGE

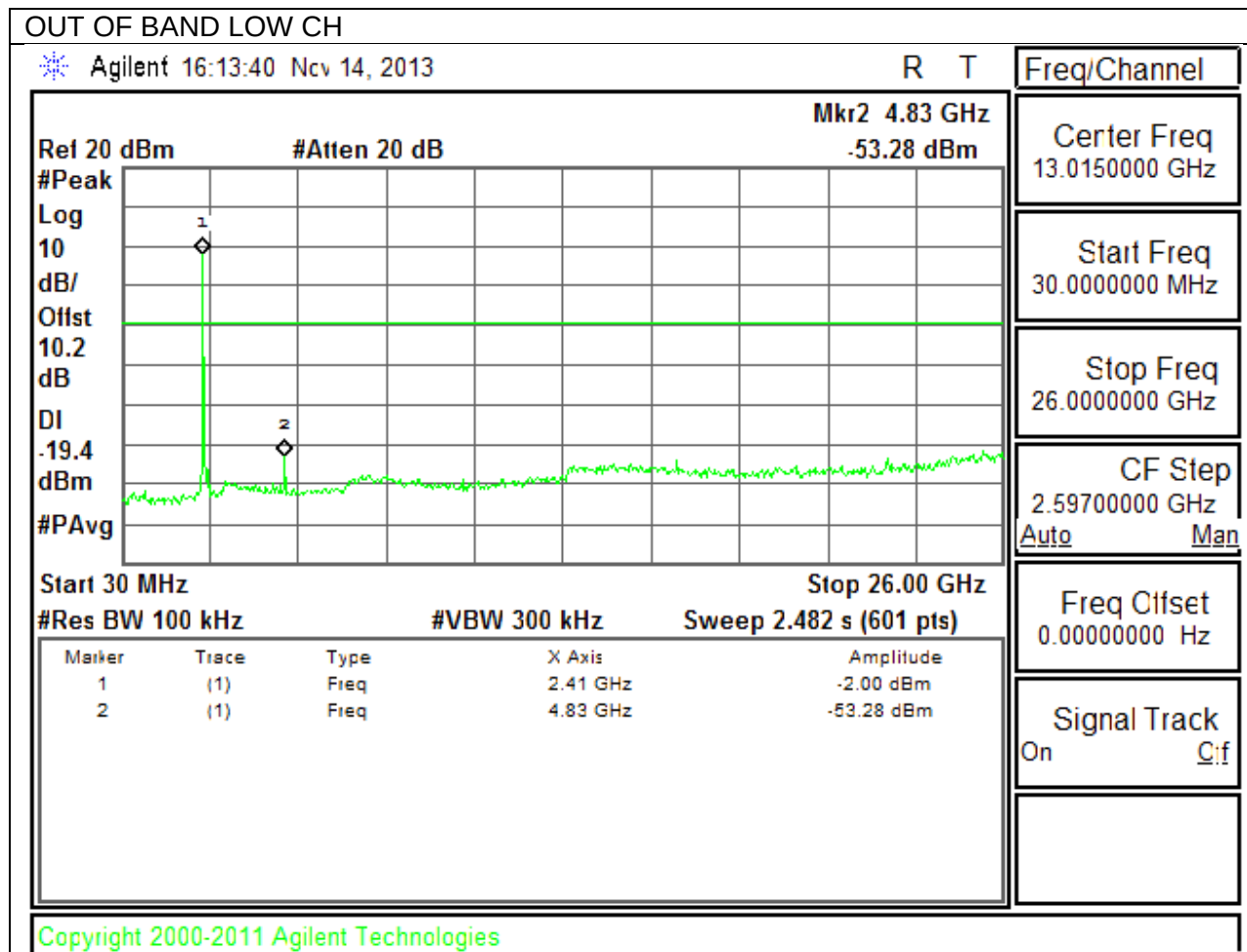


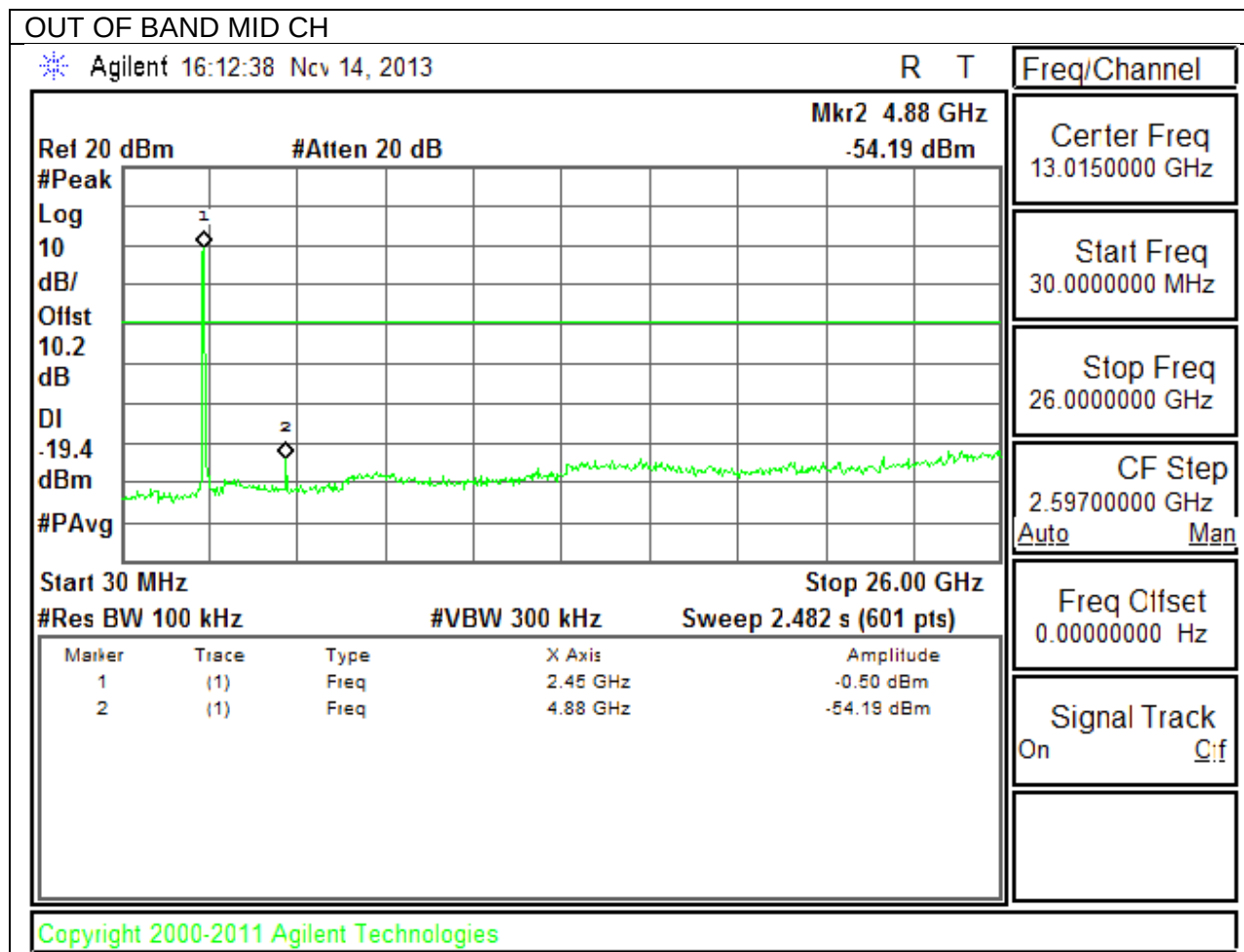
HIGH CHANNEL BANDEDGE





OUT-OF-BAND EMISSIONS

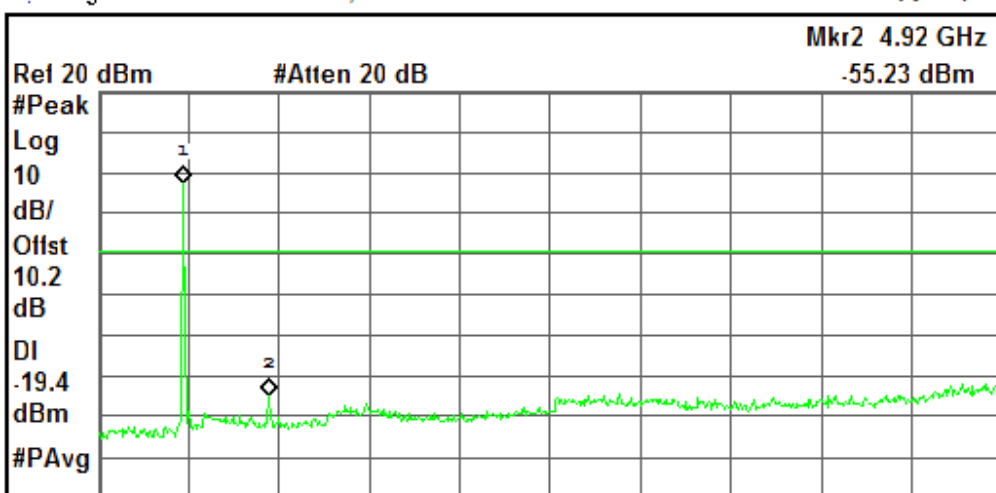




OUT OF BAND HIGH CH

Agilent 16:14:45 Nov 14, 2013

R T



Freq/Channel

Center Freq
13.0150000 GHz

Start Freq
30.0000000 MHz

Stop Freq
26.0000000 GHz

CF Step
2.59700000 GHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Start 30 MHz Stop 26.00 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	-2.72 dBm
2	(1)	Freq	4.92 GHz	-55.23 dBm

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10. RADIATED TEST RESULTS

10.1. 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.

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.

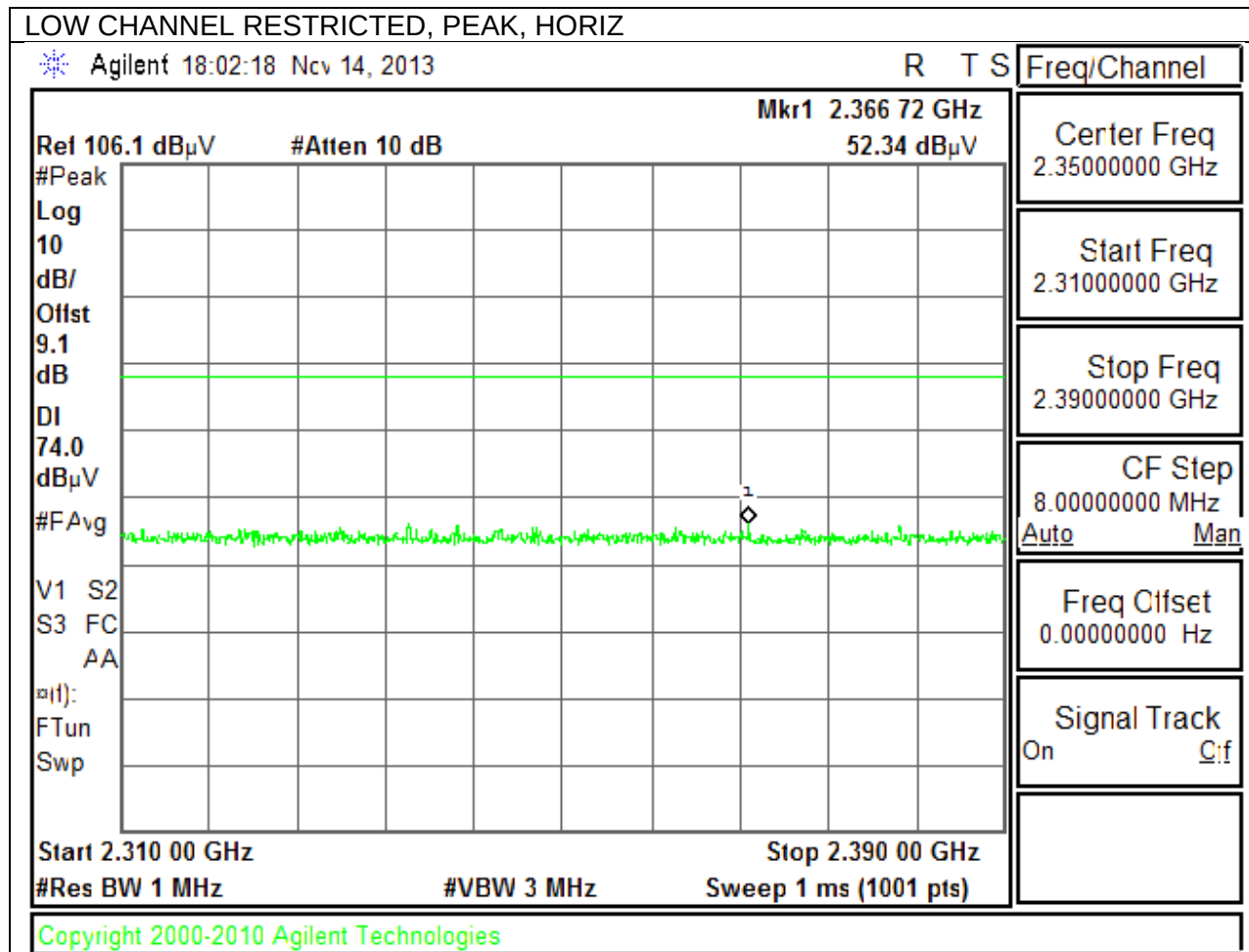
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor = $10\log(1/x)$. B mode=0.087dB. (PSA round it up to 0); G, N mode =0.3dB

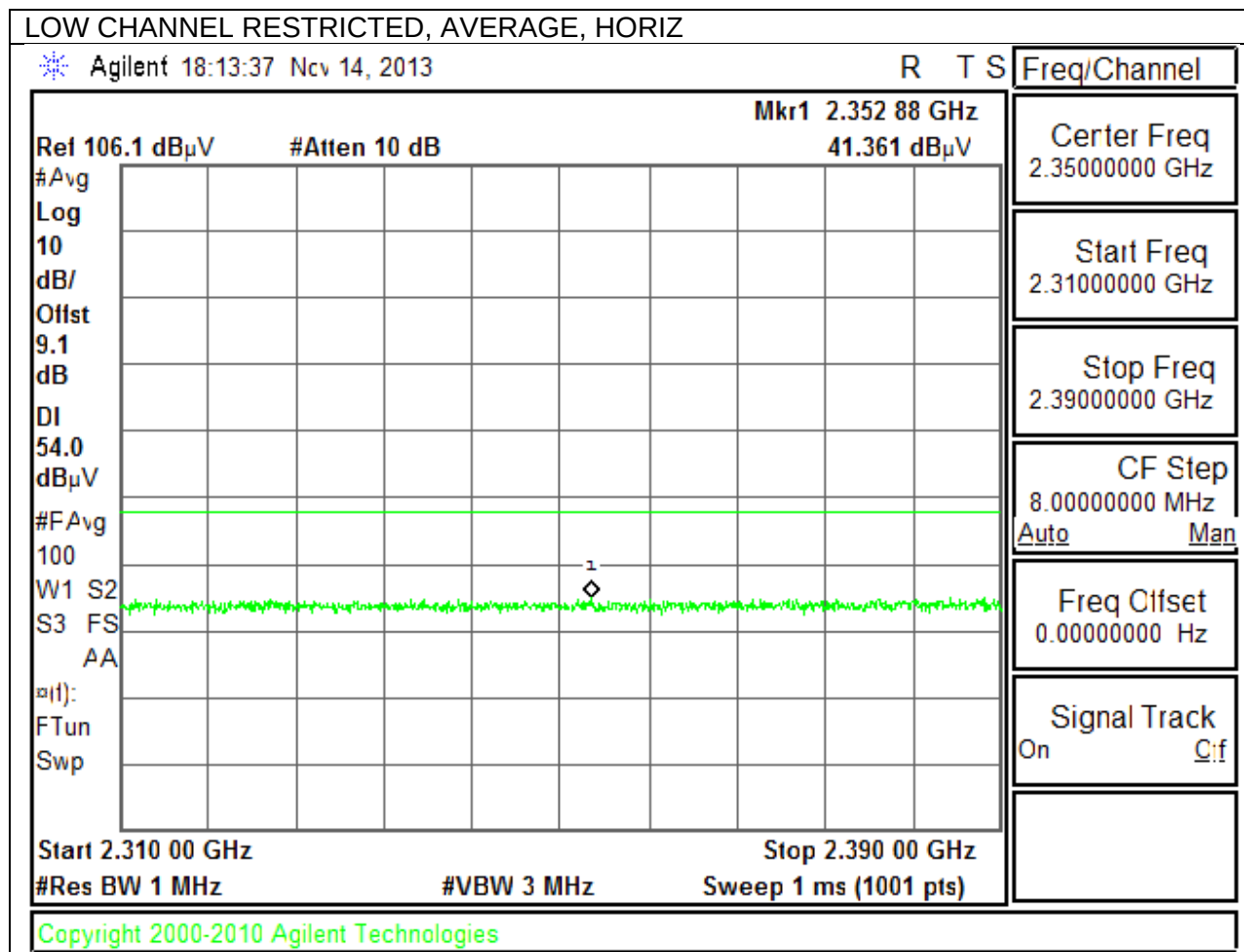
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

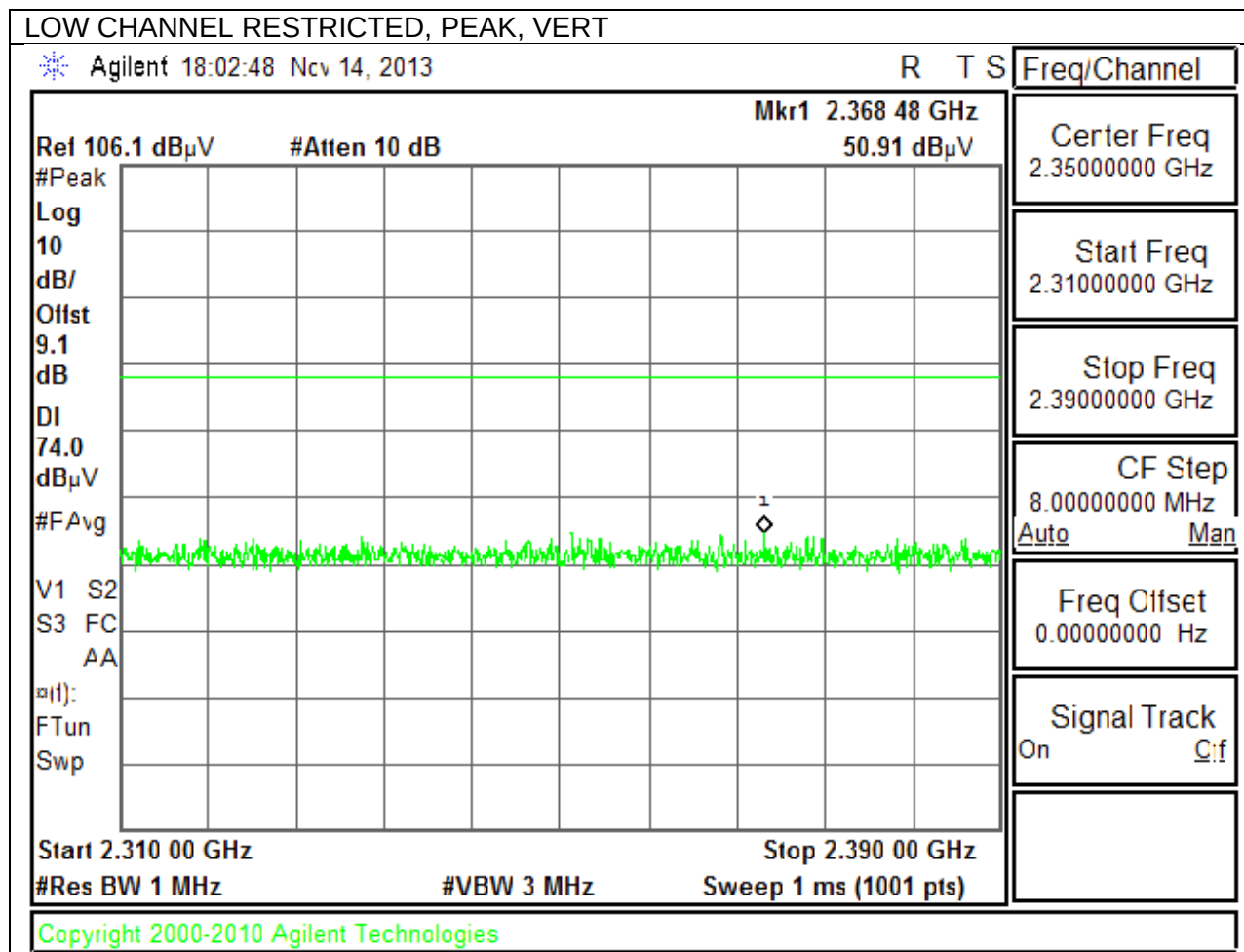
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

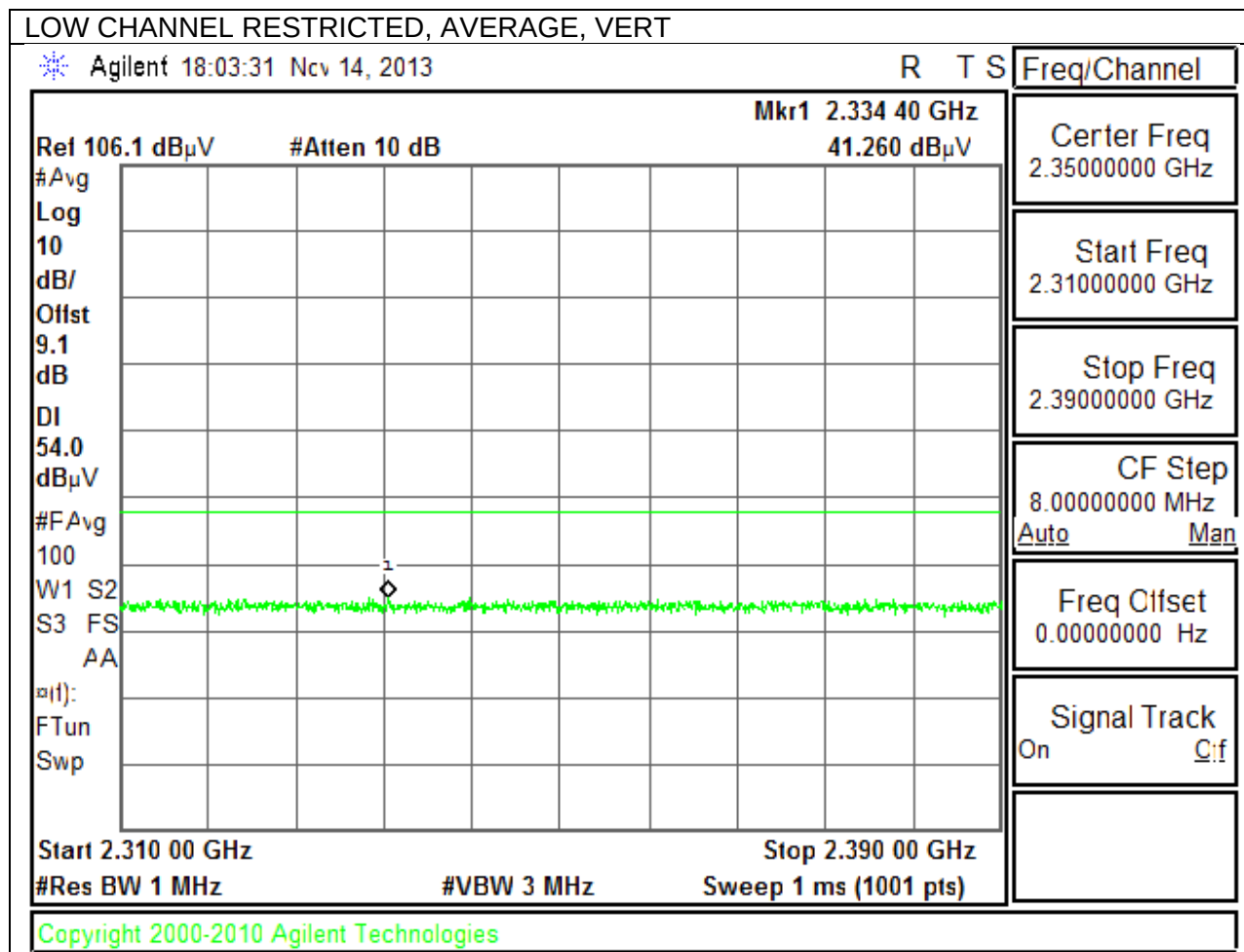
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

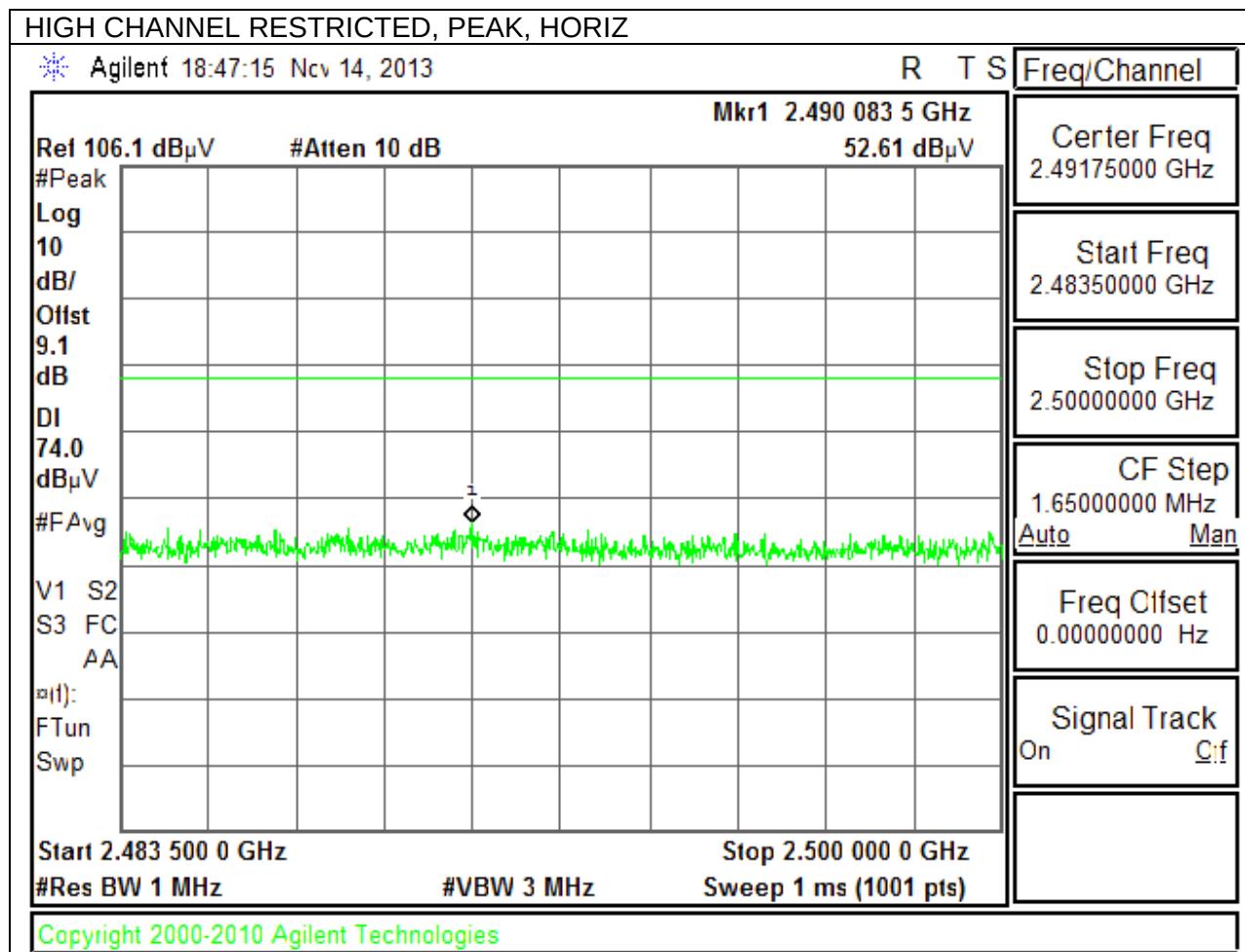


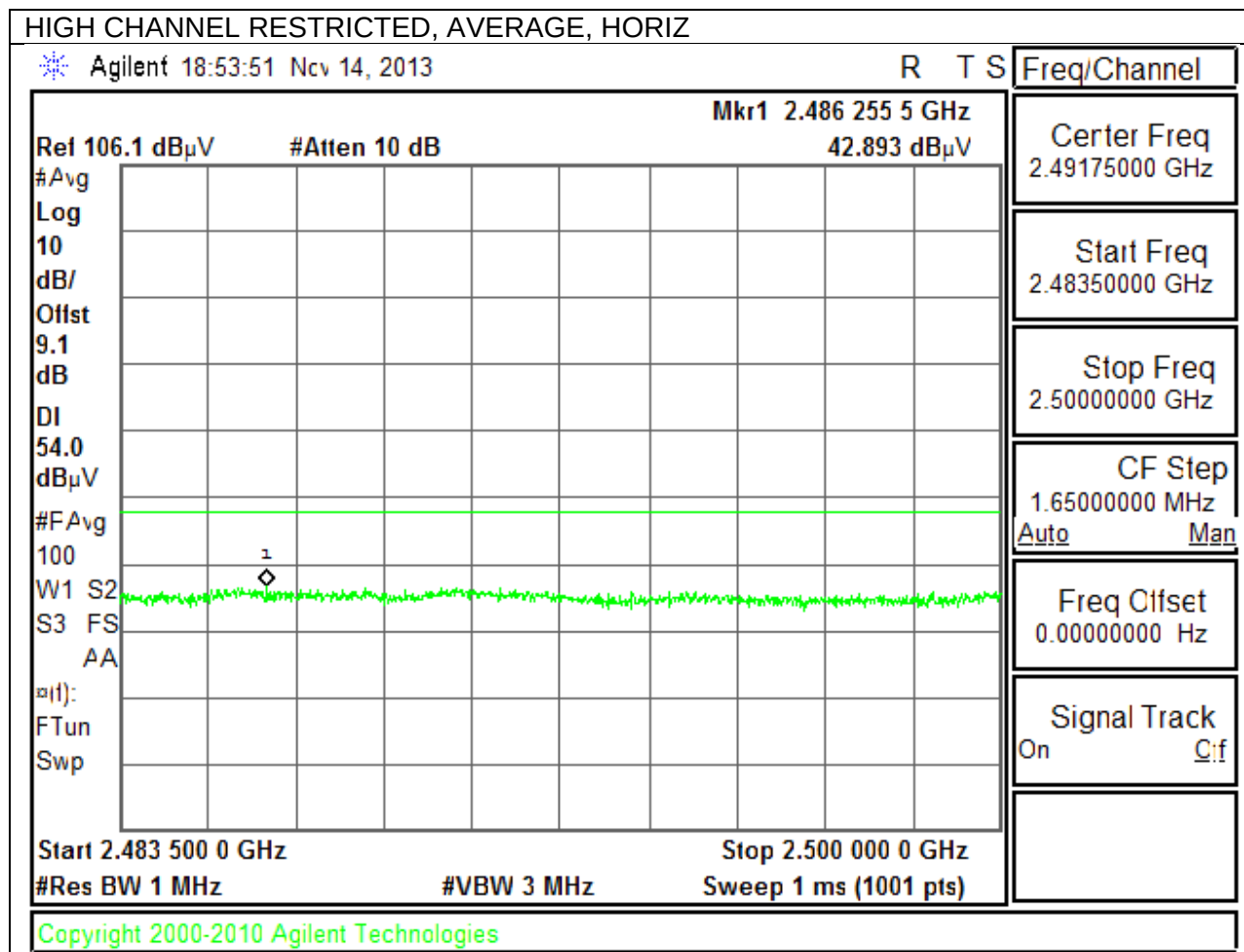


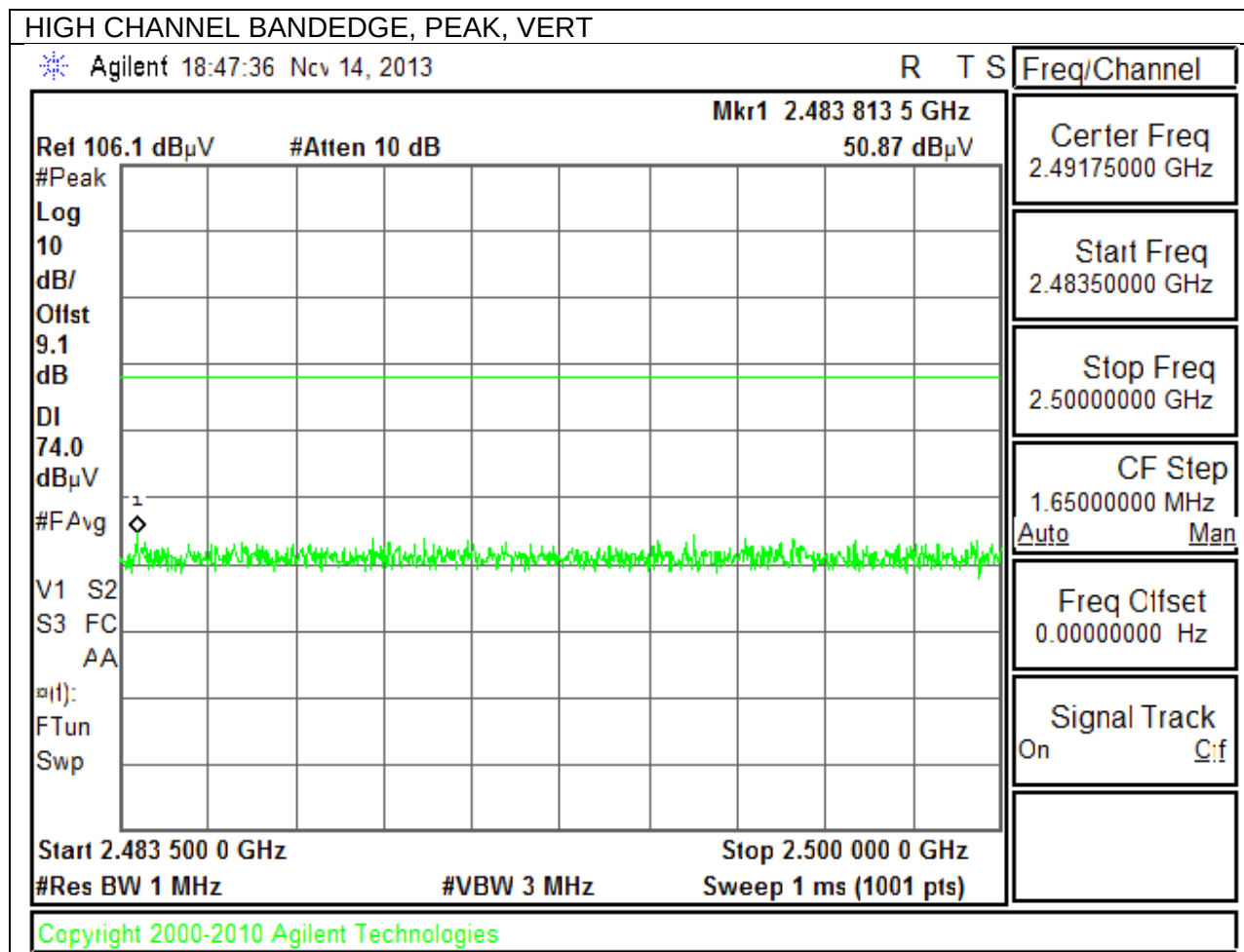


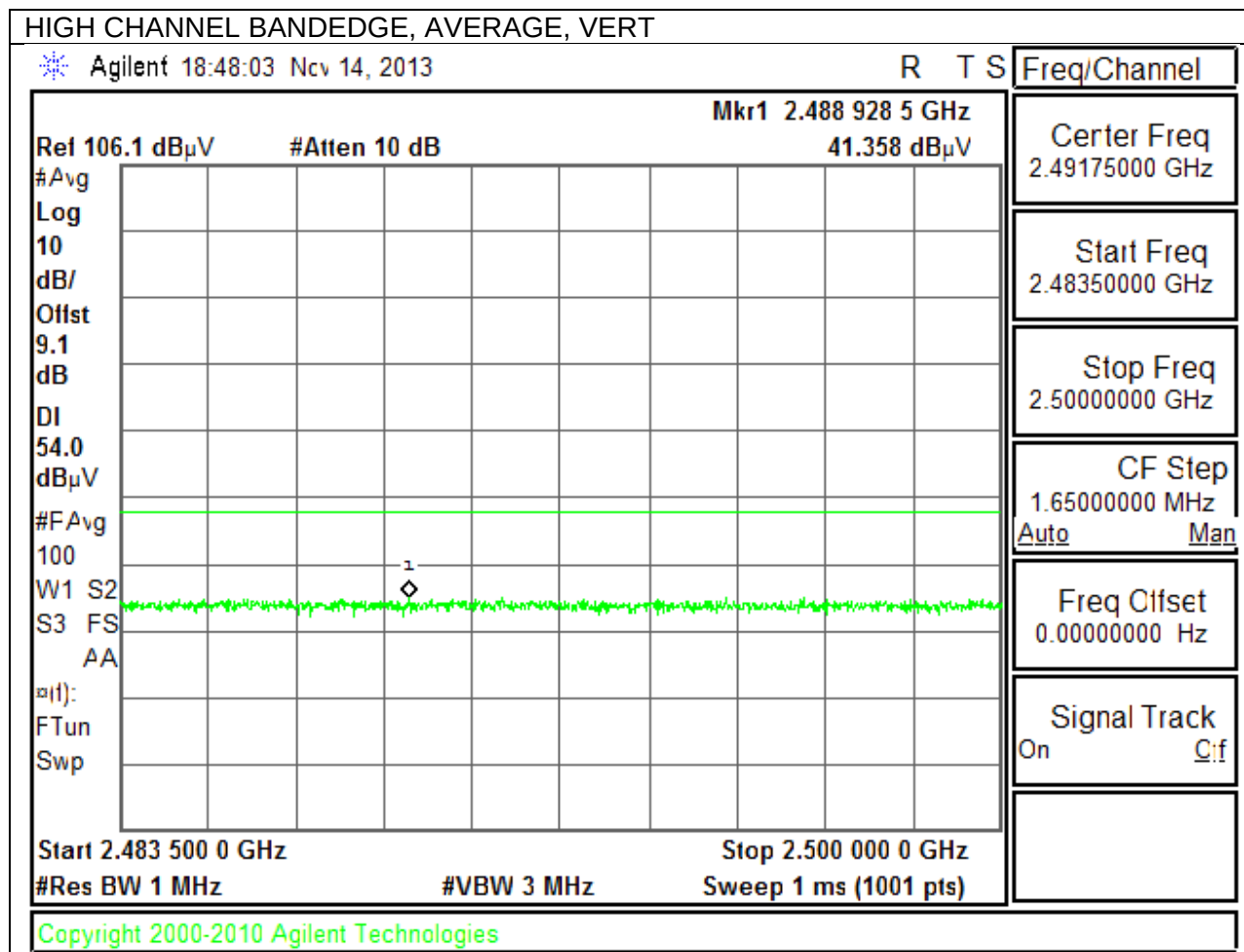


AUTHORIZED BANDEDGE (HIGH CHANNEL)



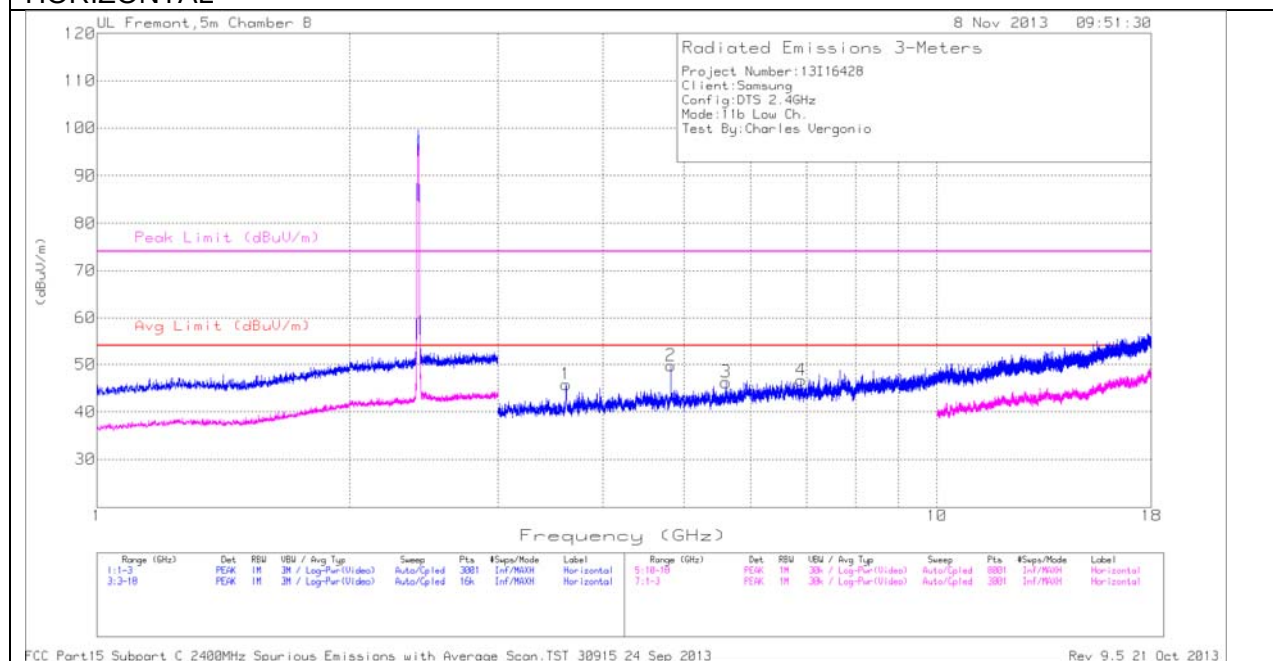






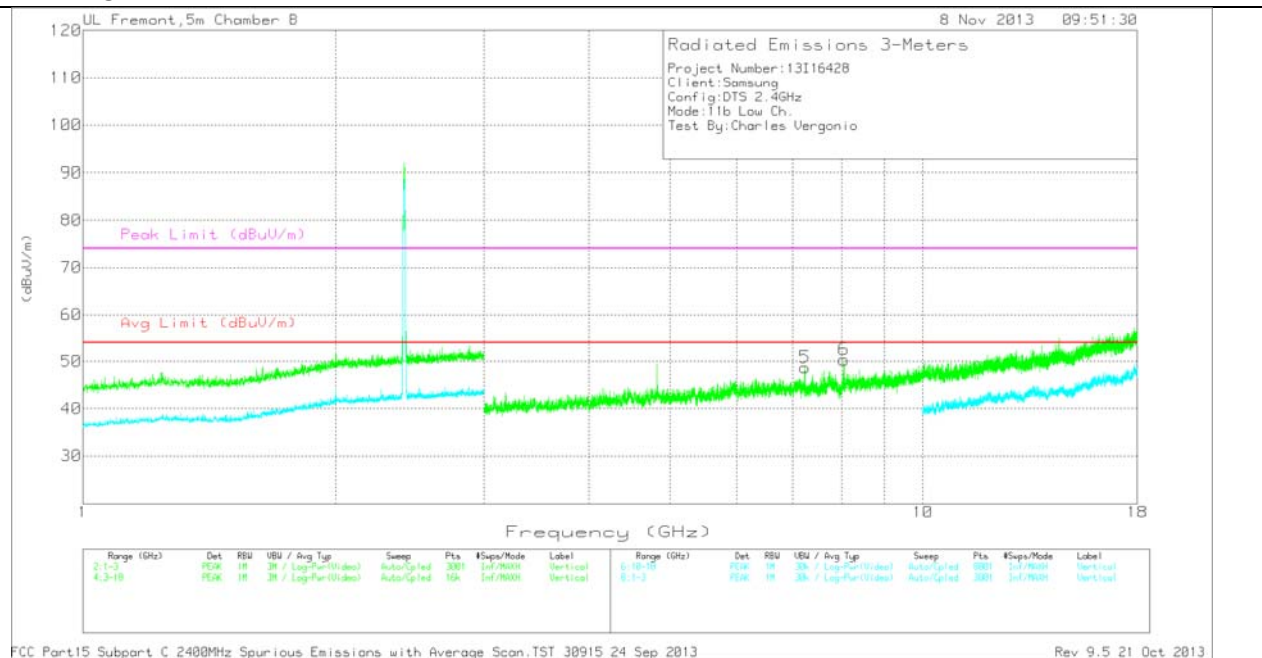
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

Marker	Frequenc y (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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.619	44.01	PK	33.5	-31.7	45.81	53.97	-8.16	74	-28.19	0-360	99	H
2	4.823	45.07	PK	34.7	-30	49.77	53.97	-4.2	74	-24.23	0-360	99	H
3	5.607	40.73	PK	35	-29.5	46.23	53.97	-7.74	74	-27.77	0-360	201	H
4	6.893	38.47	PK	35.9	-27.7	46.67	53.97	-7.3	74	-27.33	0-360	201	H
5	7.234	40.19	PK	35.8	-27.3	48.69	53.97	-5.28	74	-25.31	0-360	99	V
6	8.05	40.35	PK	36.1	-26.1	50.35	53.97	-3.62	74	-23.65	0-360	202	V

PK - Peak detector

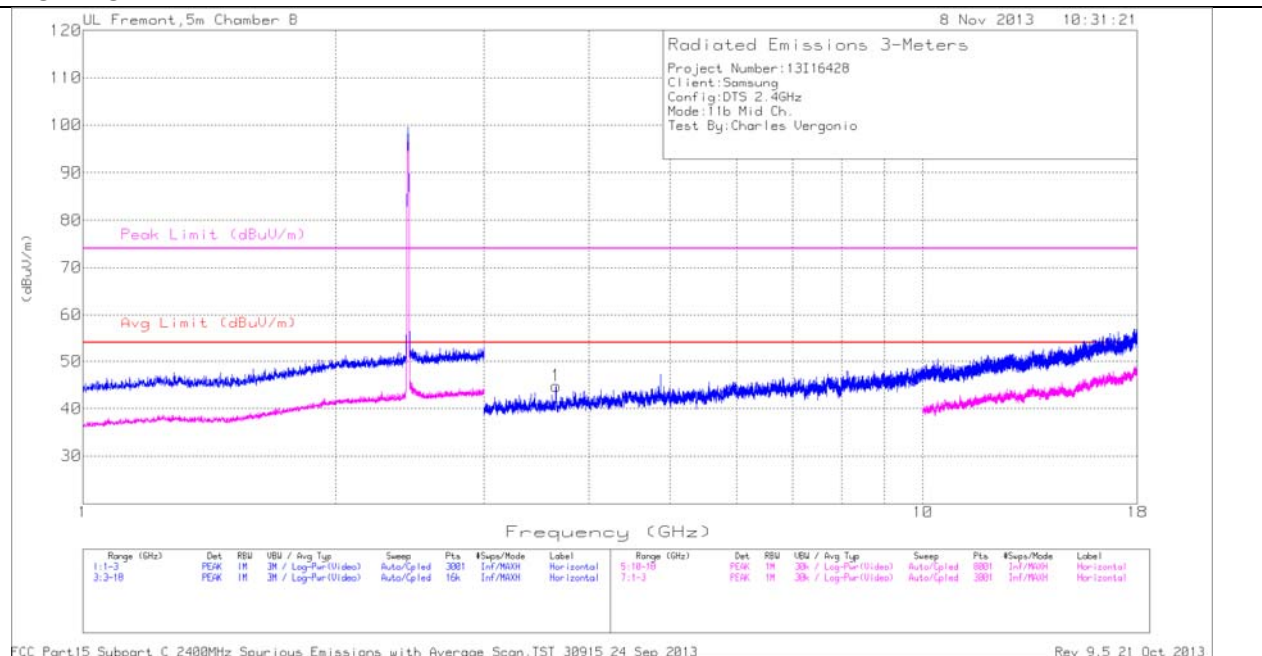
Radiated Emissions

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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.824	42.74	MAV1	34.7	-30	47.44	53.97	-6.53	74	-26.56	178	106	H
7.235	33.81	MAV1	35.8	-27.2	42.41	53.97	-11.56	74	-31.59	198	117	V
8.051	26.87	MAV1	36.1	-26.1	36.87	53.97	-17.1	74	-37.13	271	310	V

MAV1 - KDB558074 Option 1 Maximum RMS Average

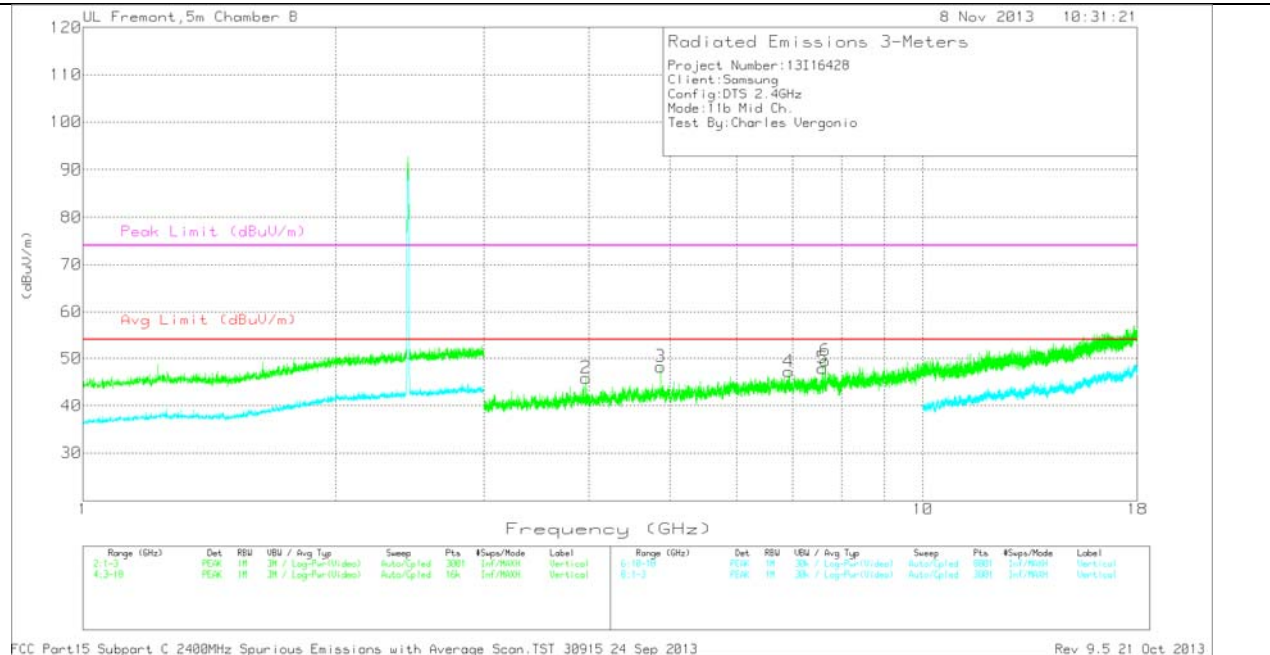
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.66	42.78	PK	33.6	-31.6	44.78	53.97	-9.19	74	-29.22	0-360	201	H
2	3.971	43.24	PK	33.9	-31.3	45.84	53.97	-8.13	74	-28.16	0-360	202	V
3	4.874	44.53	PK	34.7	-31	48.23	53.97	-5.74	74	-25.77	0-360	99	V
4	6.921	39	PK	35.9	-27.7	47.2	53.97	-6.77	74	-26.8	0-360	202	V
5	7.596	39.44	PK	36.1	-27.6	47.94	53.97	-6.03	74	-26.06	0-360	202	V
6	7.652	41.22	PK	36.1	-27.8	49.52	53.97	-4.45	74	-24.48	0-360	202	V

PK - Peak detector

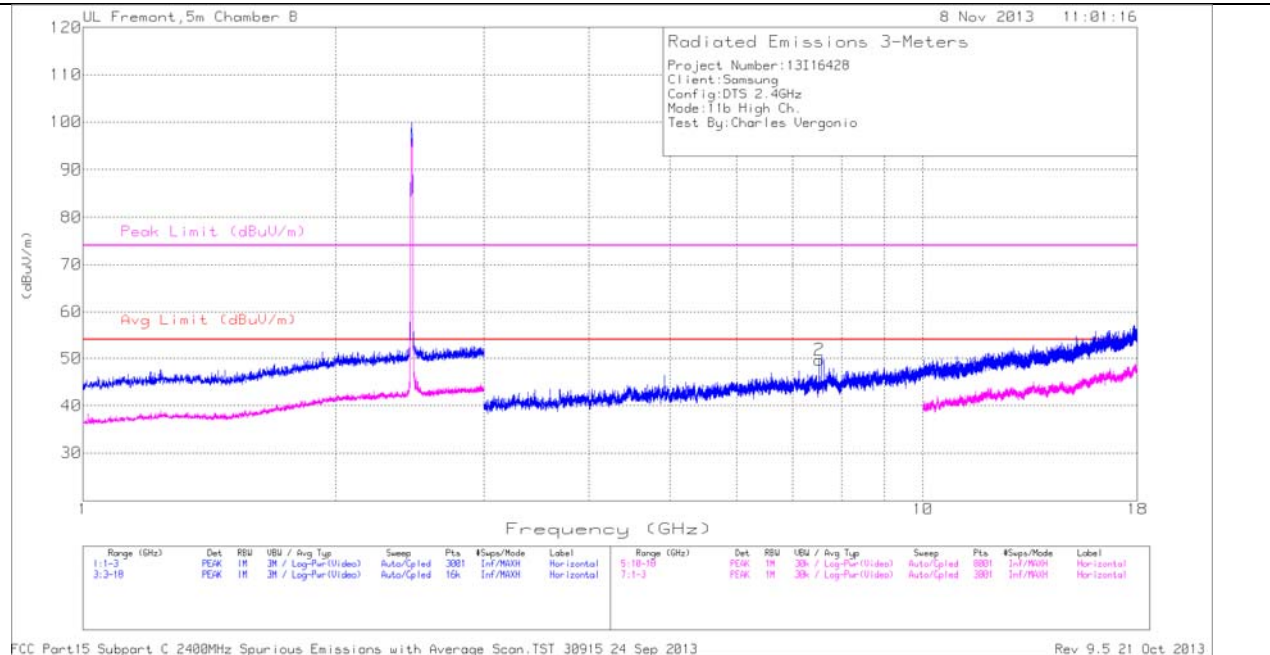
Radiated Emissions

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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.874	42.85	MAV1	34.7	-31	46.55	53.97	-7.42	74	-27.45	90	290	V
7.654	27.8	MAV1	36.1	-27.7	36.2	53.97	-17.77	74	-37.8	16	184	V

MAV1 - KDB558074 Option 1 Maximum RMS Average

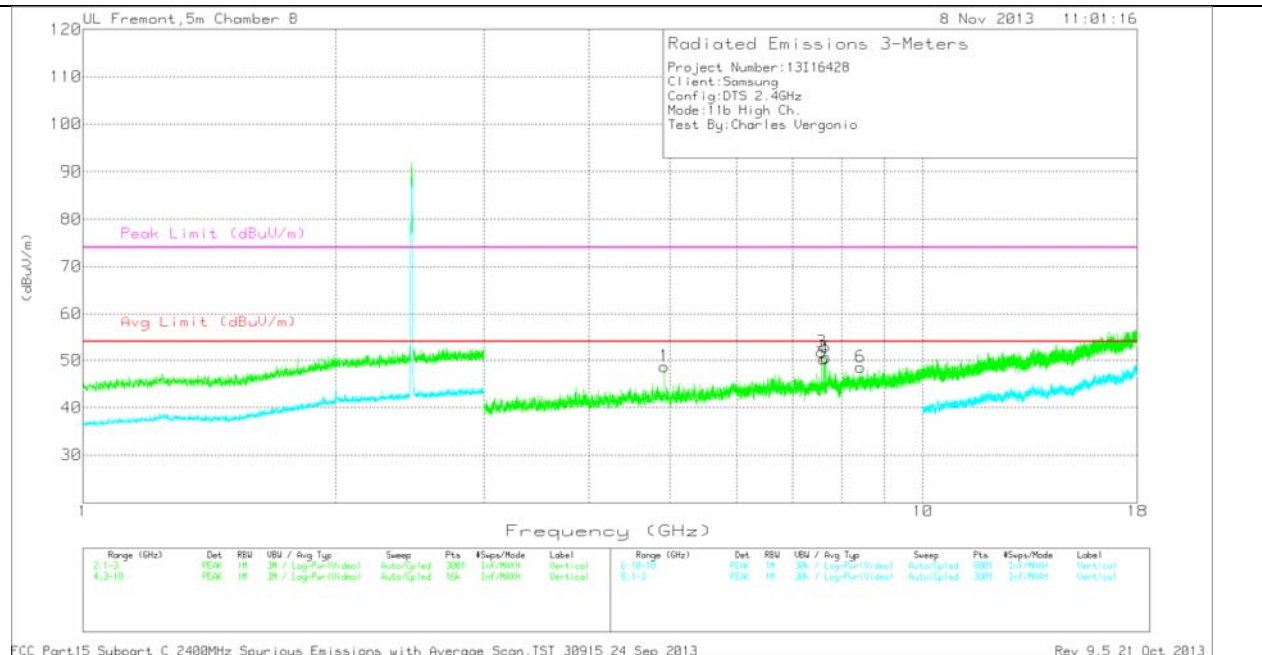
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	7.526	41.22	PK	36	-27.6	49.62	53.97	-4.35	74	-24.38	0-360	99	H
1	4.924	45.41	PK	34.6	-31.3	48.71	53.97	-5.26	74	-25.29	0-360	202	V
3	7.577	43.25	PK	36.1	-27.6	51.75	53.97	-2.22	74	-22.25	0-360	202	V
4	7.62	42.2	PK	36.1	-28	50.3	53.97	-3.67	74	-23.7	0-360	202	V
5	7.663	42	PK	36.1	-27.5	50.6	53.97	-3.37	74	-23.4	0-360	202	V
6	8.427	37.39	PK	36.2	-25	48.59	53.97	-5.38	74	-25.41	0-360	202	V

PK - Peak detector

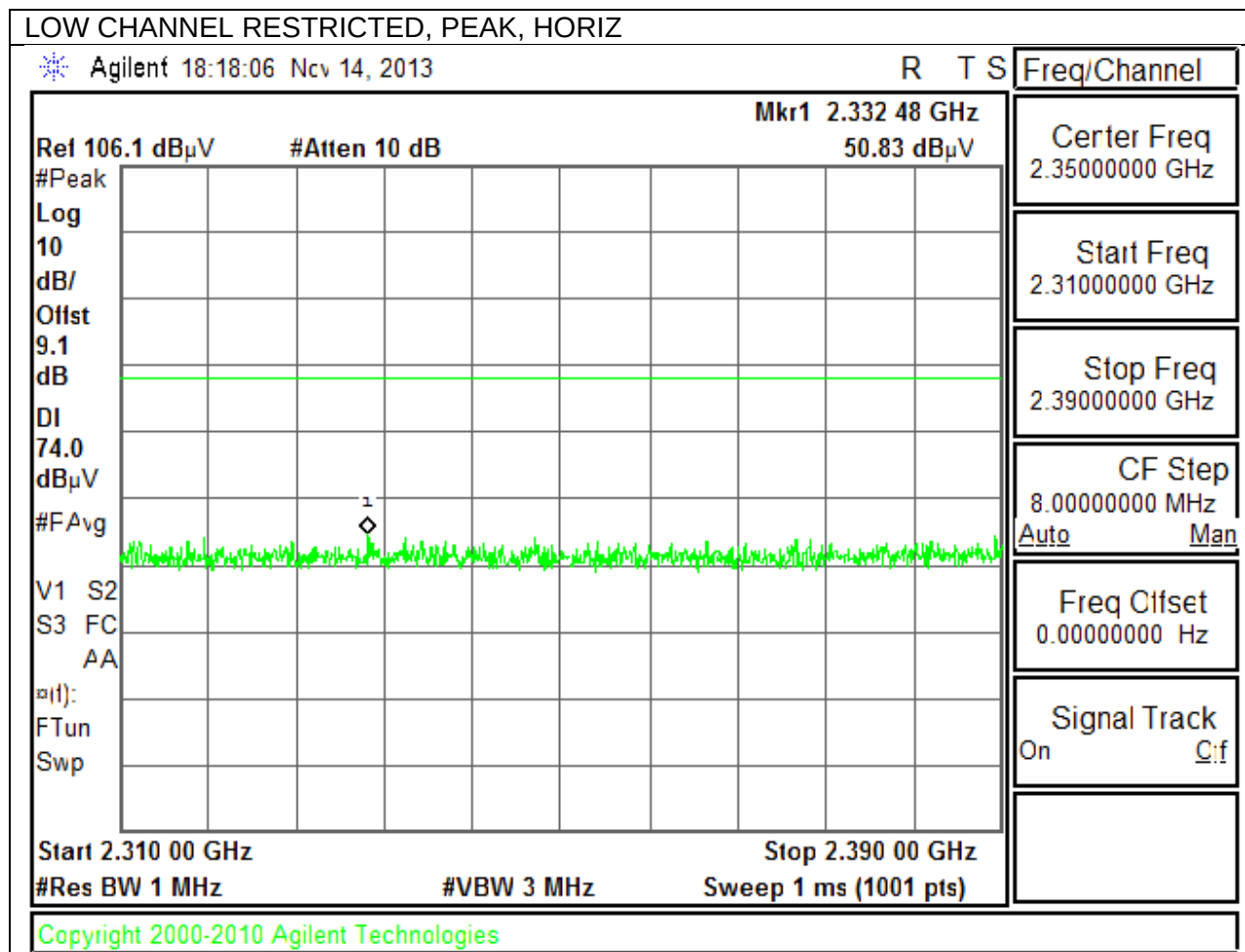
Radiated Emissions

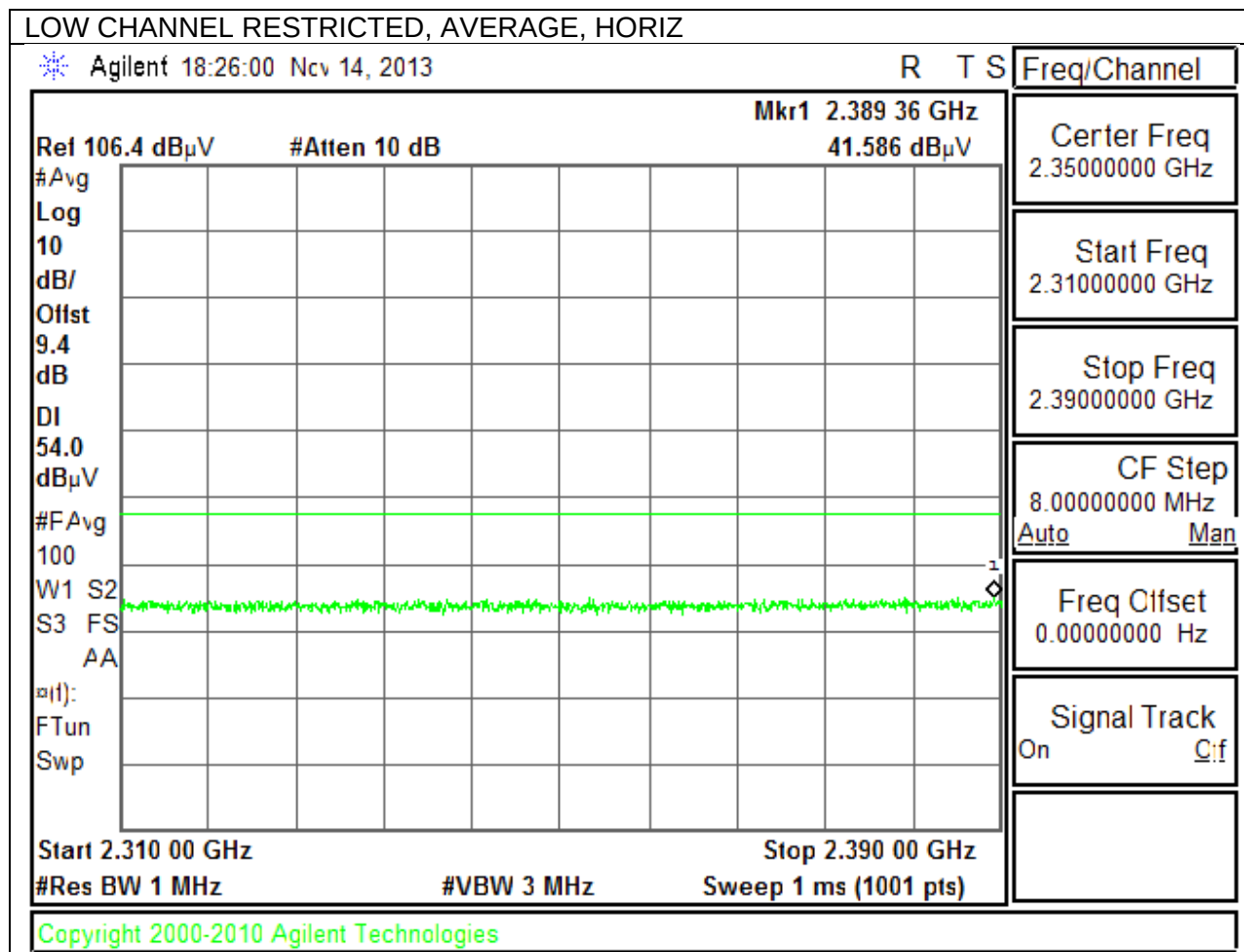
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.523	27.62	MAV1	36	-27.6	36.02	53.97	-17.95	74	-37.98	11	331	H
4.924	40.38	MAV1	34.6	-31.3	43.68	53.97	-10.29	74	-30.32	265	284	V
7.563	27.88	MAV1	36.1	-27.6	36.38	53.97	-17.59	74	-37.62	99	266	V
7.609	28.57	MAV1	36.1	-28	36.67	53.97	-17.3	74	-37.33	14	227	V
7.659	27.59	MAV1	36.1	-27.6	36.09	53.97	-17.88	74	-37.91	154	173	V
8.425	25.96	MAV1	36.2	-25	37.16	53.97	-16.81	74	-36.84	317	214	V

MAV1 - KDB558074 Option 1 Maximum RMS Average

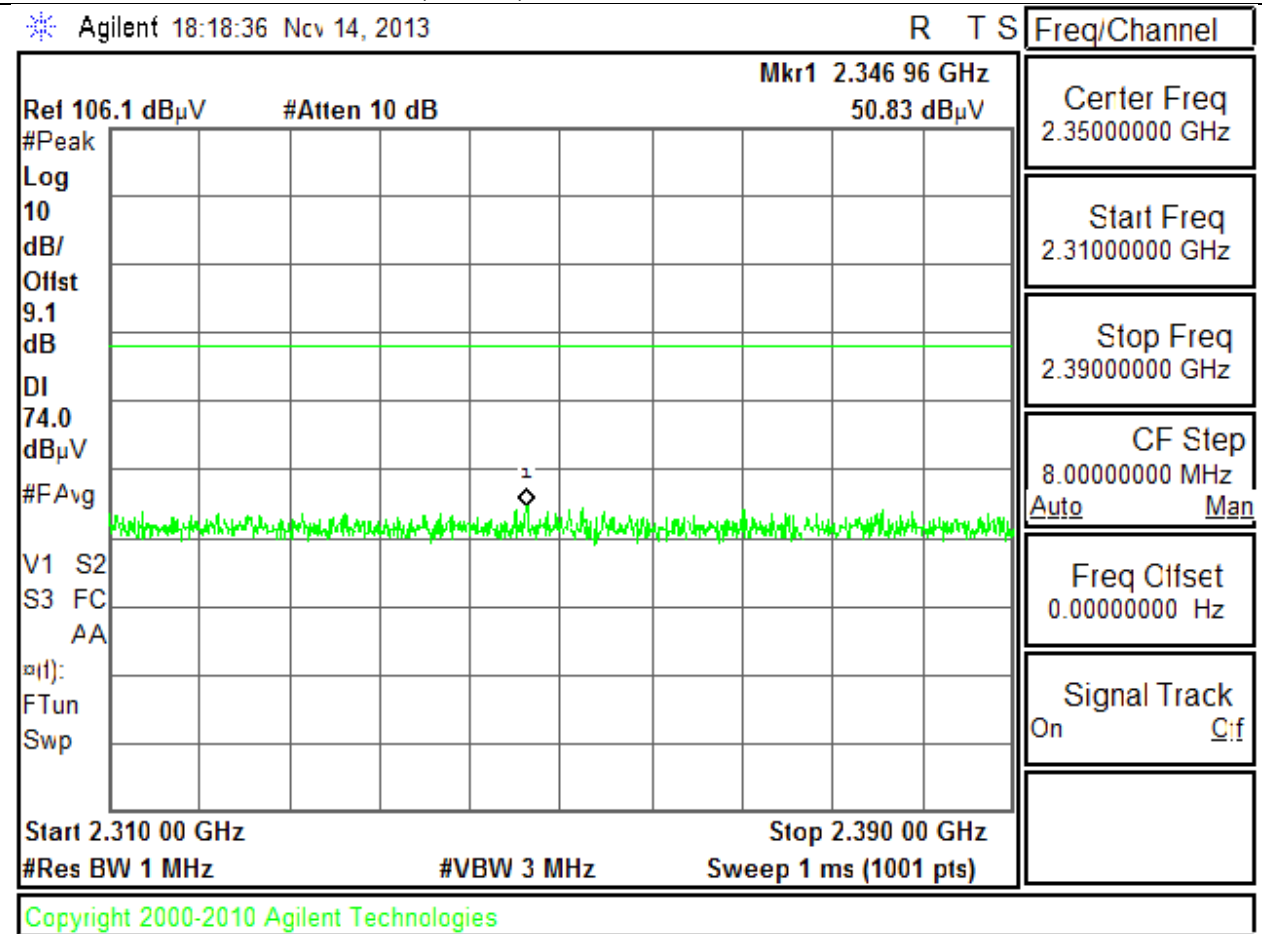
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

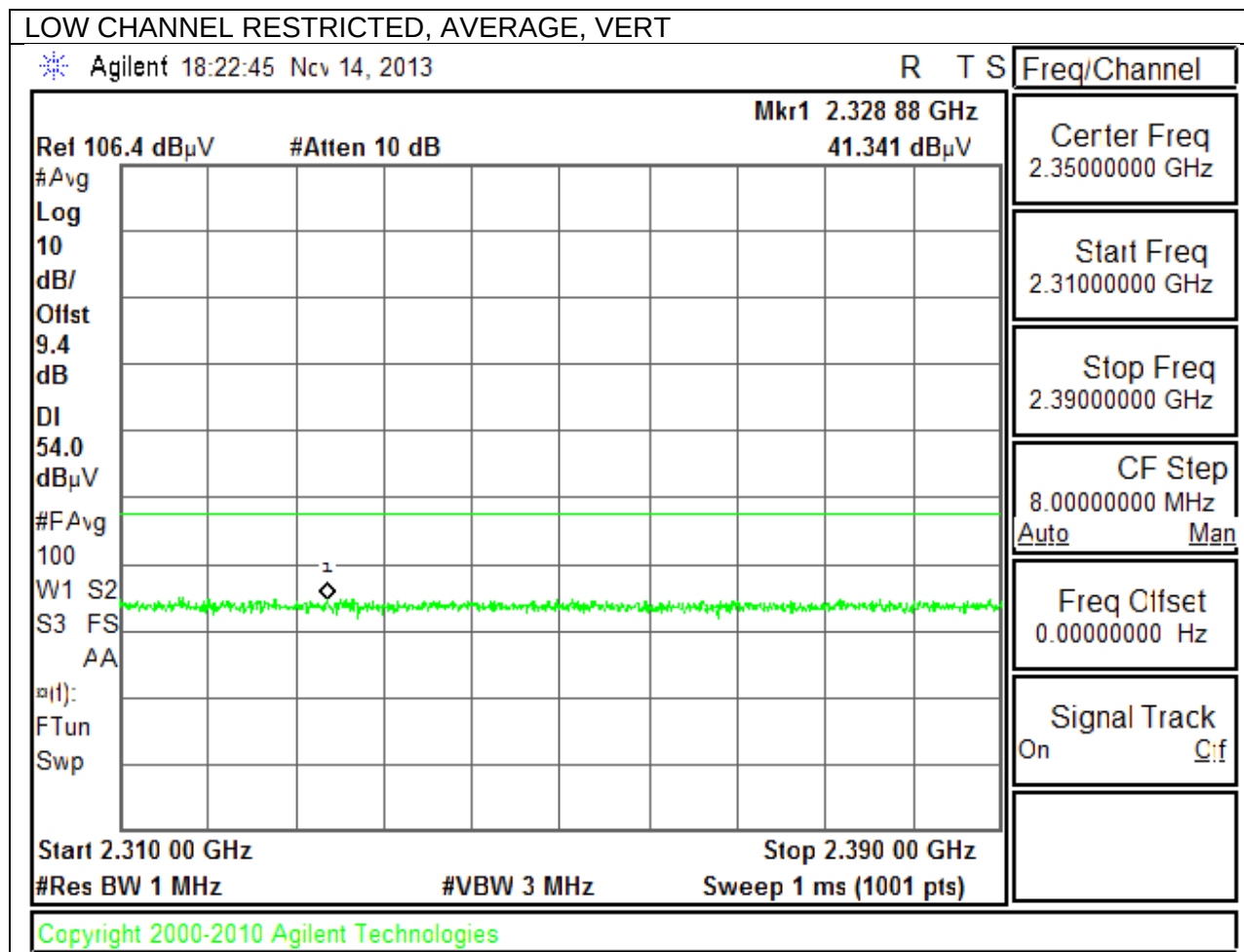
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



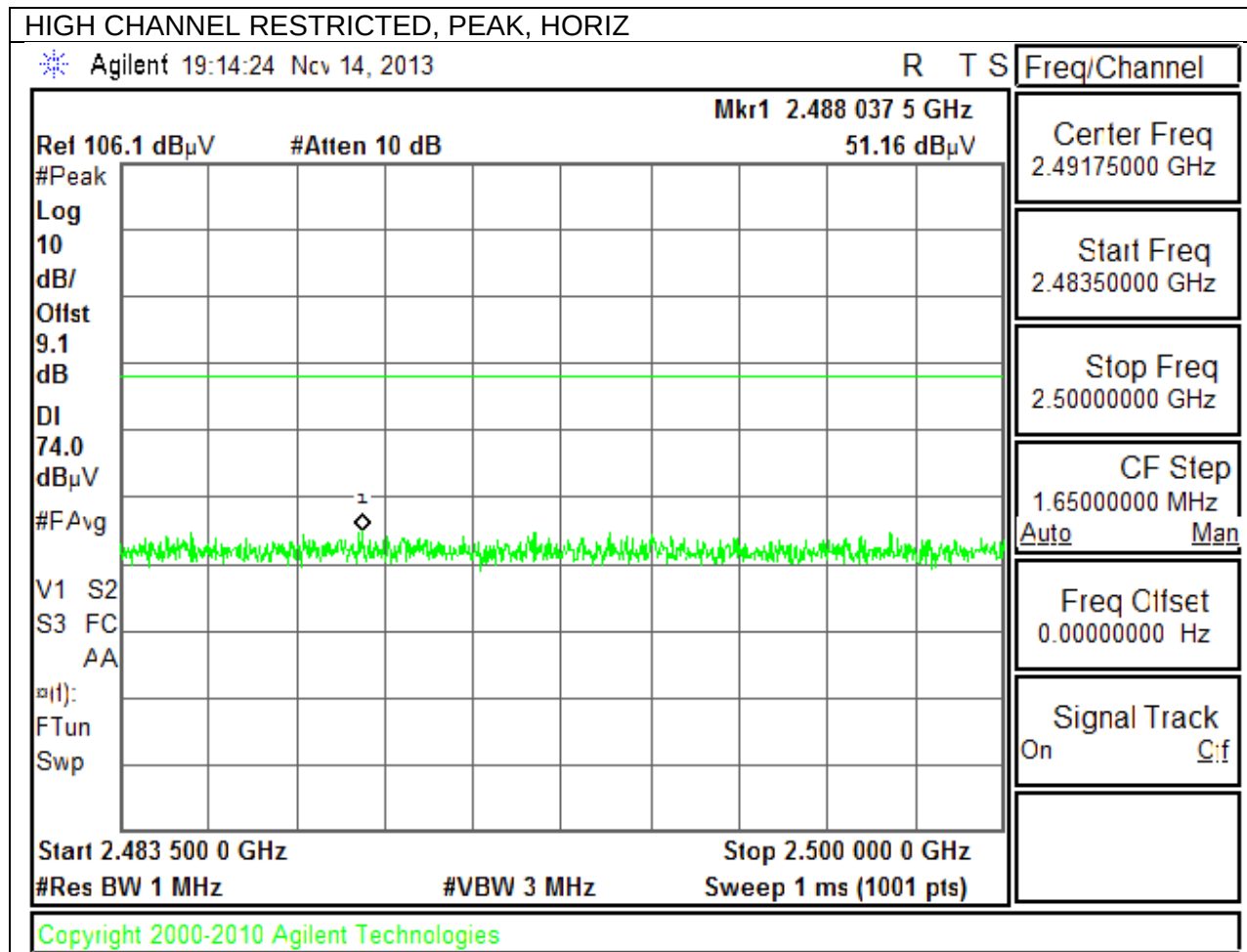


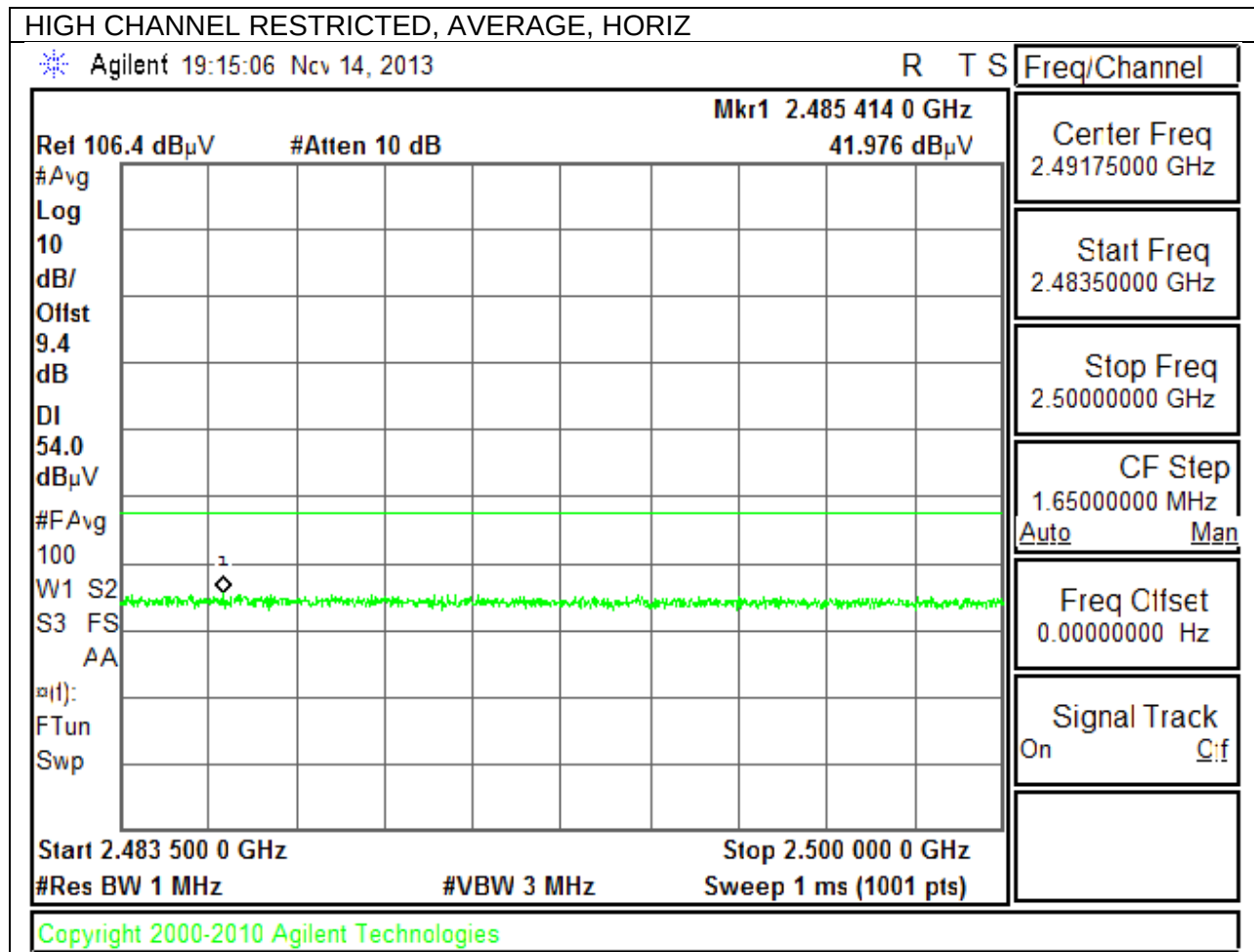
LOW CHANNEL RESTRICTED, PEAK, VERT

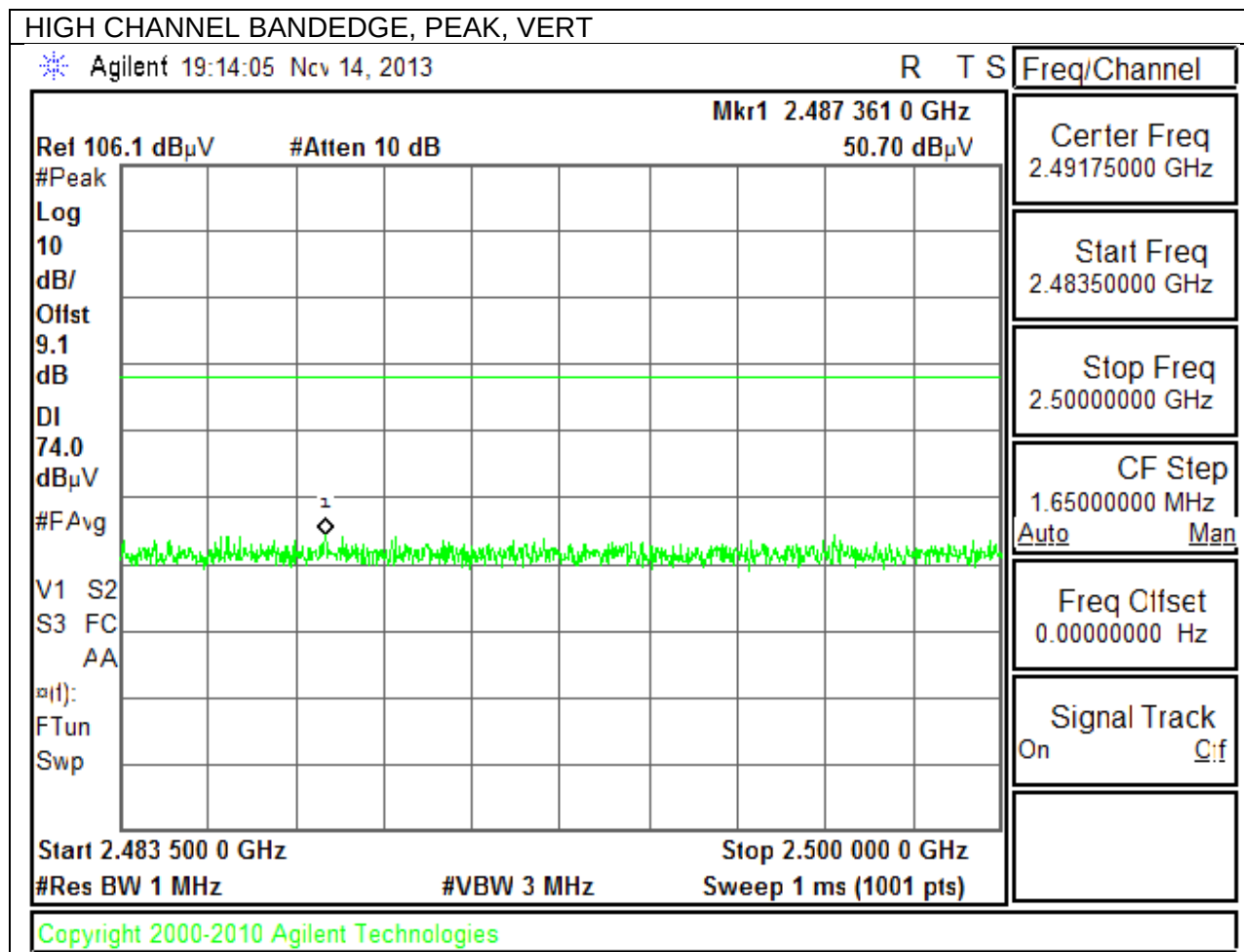


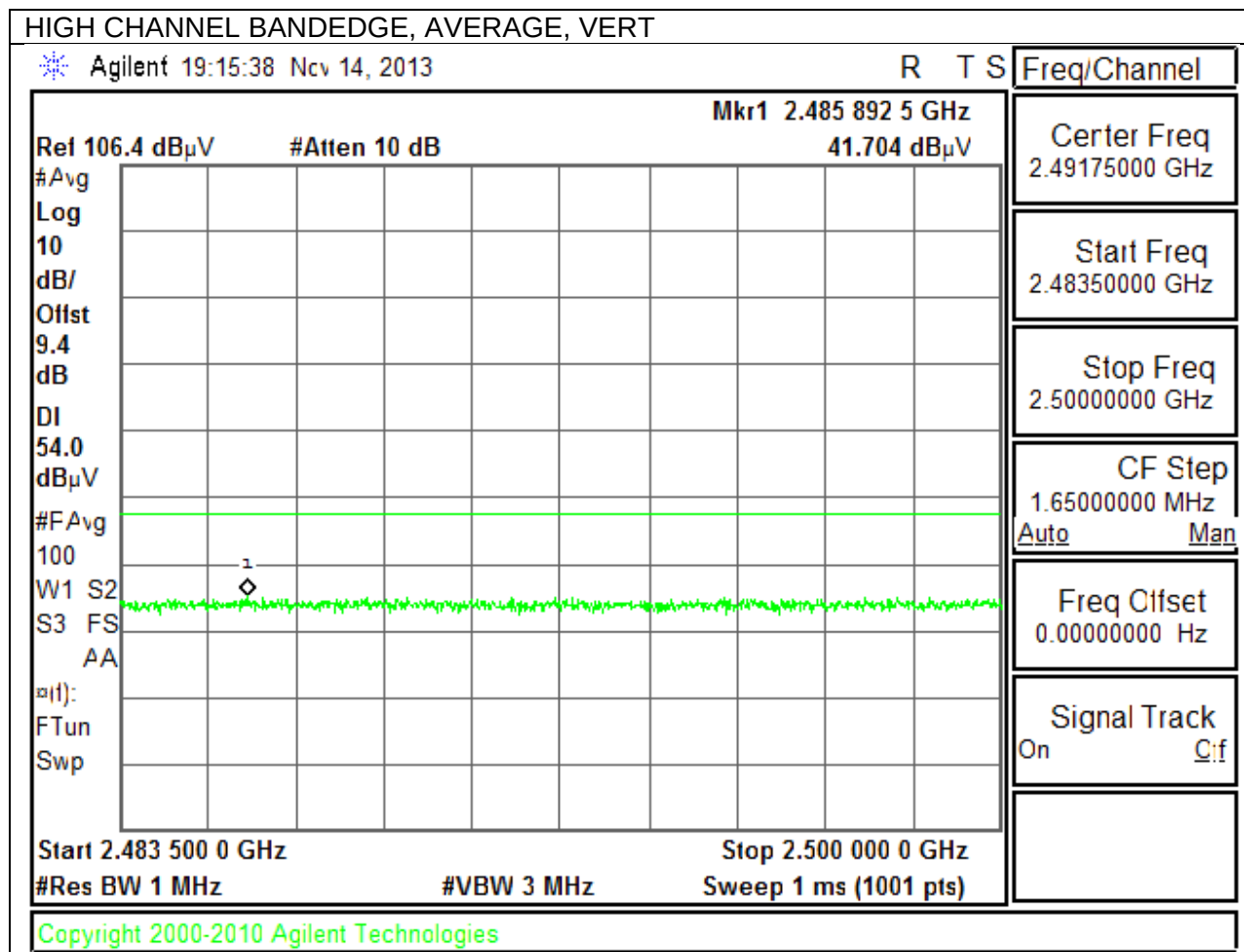


AUTHORIZED BANDEDGE (HIGH CHANNEL)



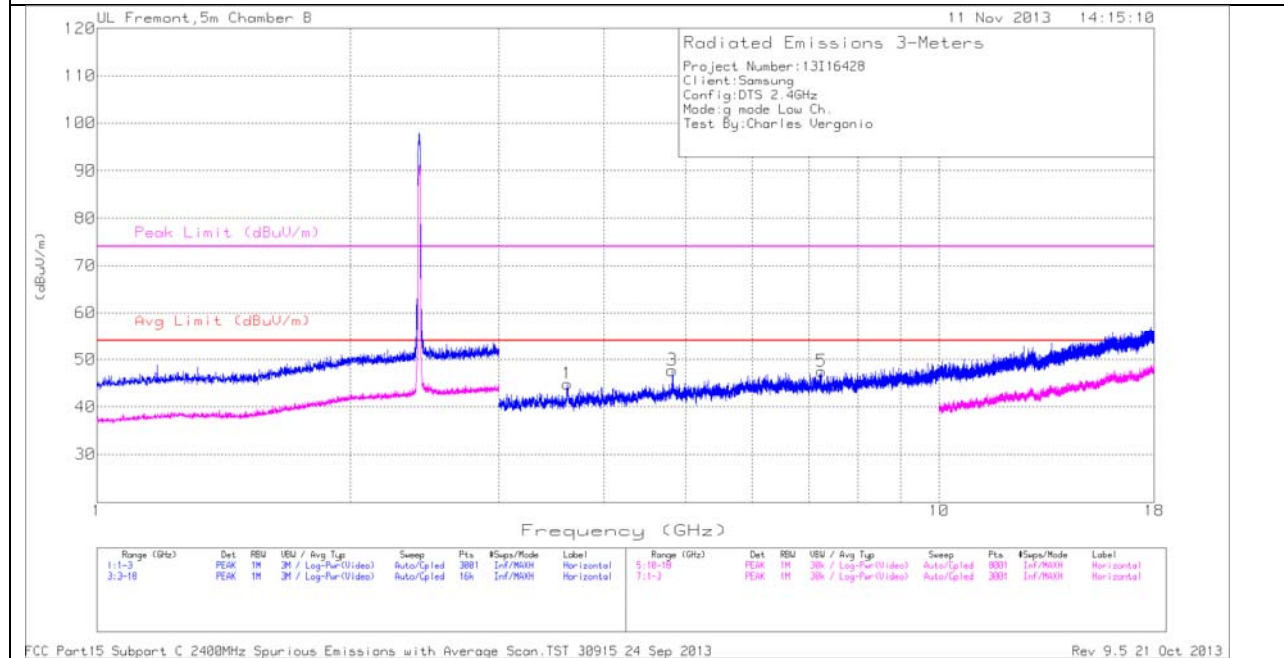






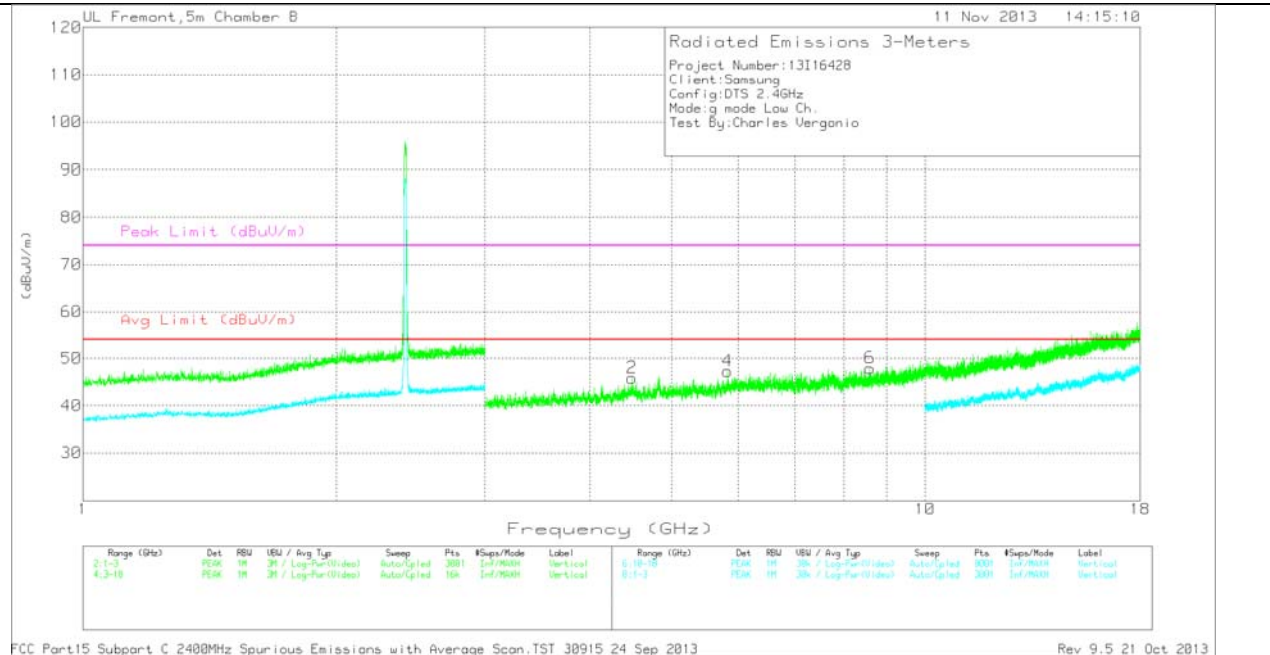
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

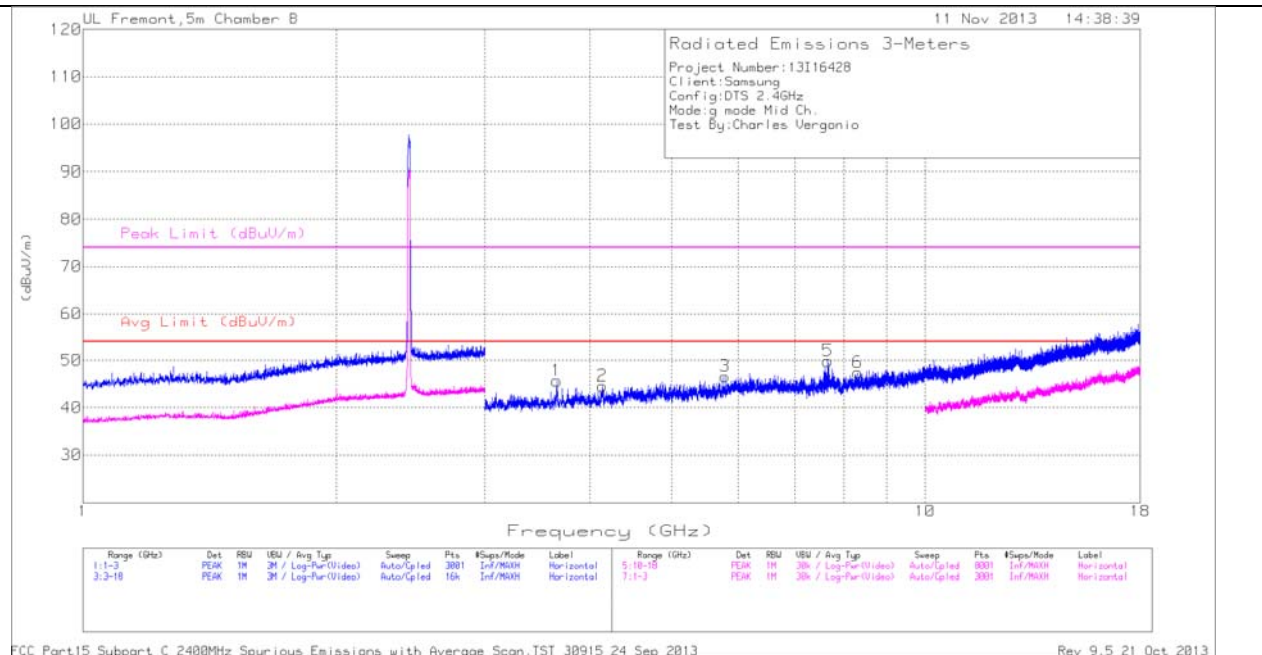
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.618	42.58	PK	33.5	-31.2	44.88	53.97	-9.09	74	-29.12	0-360	99	H
3	* 4.82	42.19	PK	34.7	-29.2	47.69	53.97	-6.28	74	-26.31	0-360	201	H
5	7.246	39.08	PK	35.8	-27.4	47.48	53.97	-6.49	74	-26.52	0-360	99	H
2	4.488	40.53	PK	34.5	-29.2	45.83	53.97	-8.14	74	-28.17	0-360	99	V
4	5.828	41.28	PK	35.4	-29.4	47.28	53.97	-6.69	74	-26.72	0-360	99	V
6	8.597	37.93	PK	36.3	-26.3	47.93	53.97	-6.04	74	-26.07	0-360	99	V

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

PK - Peak detector

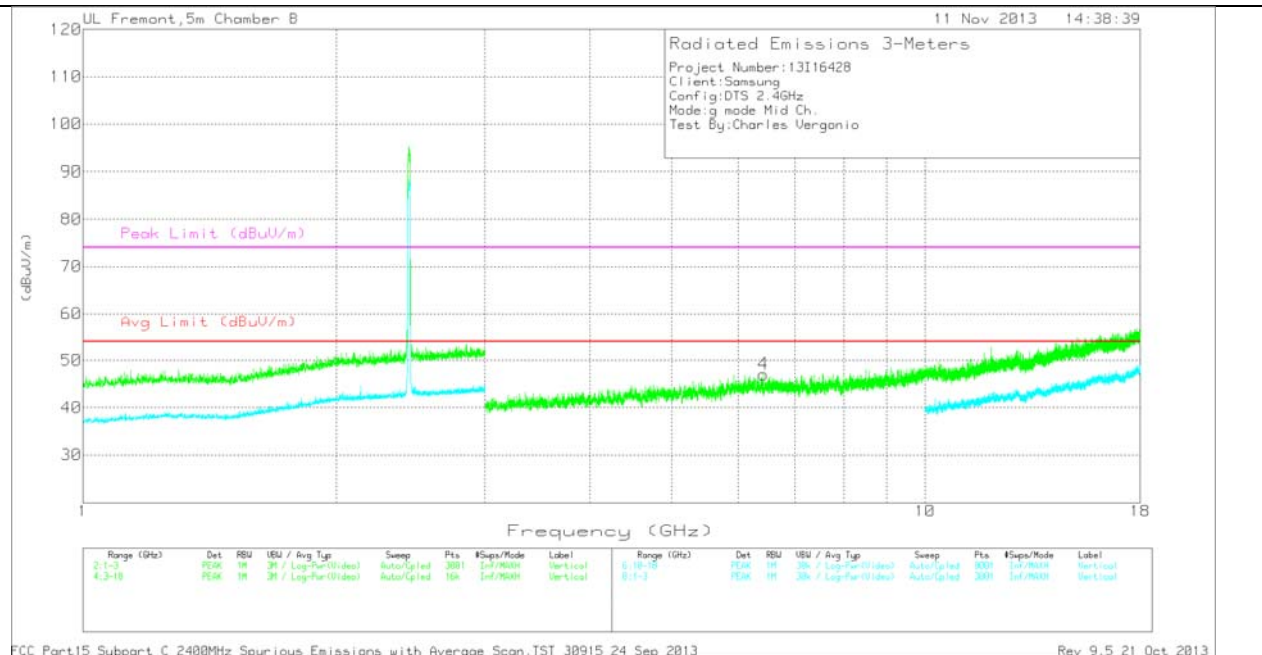
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21
Oct 2013

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 /Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.652	43.09	PK	33.6	-31	45.69	53.97	-8.28	74	-28.31	0-360	201	H
2	* 4.138	40.36	PK	34	-29.8	44.56	53.97	-9.41	74	-29.44	0-360	201	H
3	5.786	40.9	PK	35.3	-29.6	46.6	53.97	-7.37	74	-27.4	0-360	201	H
5	* 7.662	41.25	PK	36.1	-27.5	49.85	53.97	-4.12	74	-24.15	0-360	201	H
6	* 8.312	37.71	PK	36.1	-26.4	47.41	53.97	-6.56	74	-26.59	0-360	201	H
4	6.428	39.94	PK	35.9	-28.8	47.04	53.97	-6.93	74	-26.96	0-360	202	V

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

PK - Peak detector

Radiated Emissions

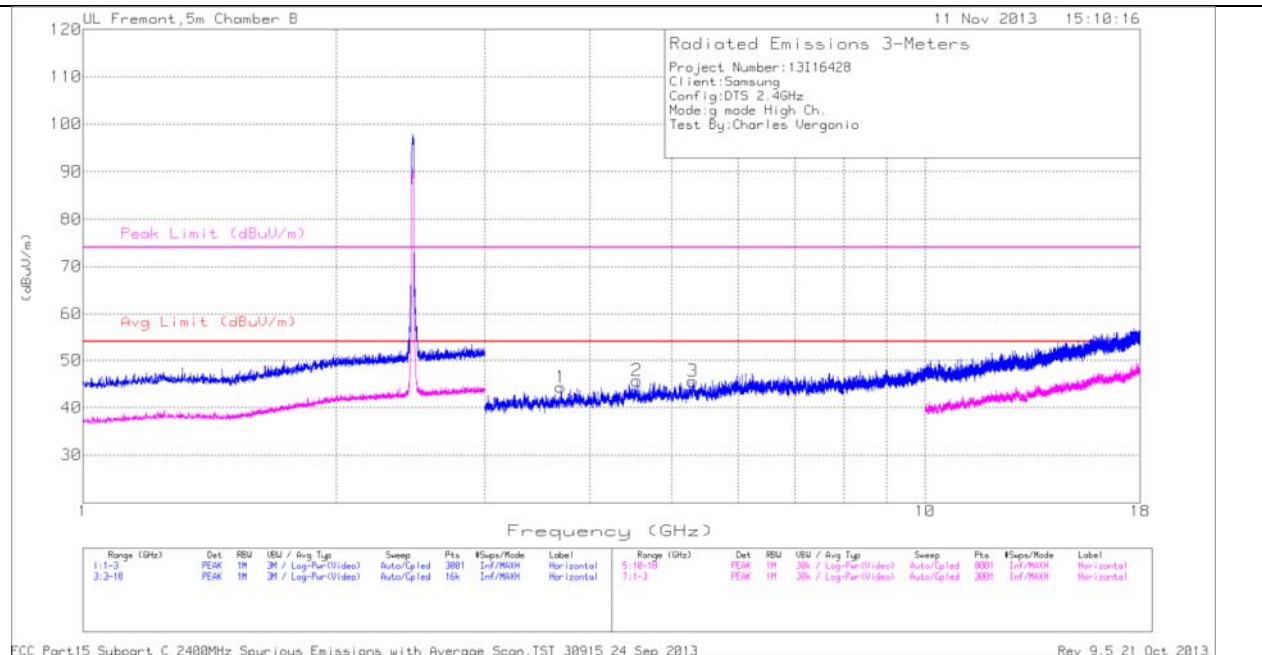
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F litr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.653	27.86	MAv1	36.1	-27.6	36.36	53.97	-17.61	74	-37.64	6	223	H

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

MAv1 - KDB558074 Option 1 Maximum RMS Average

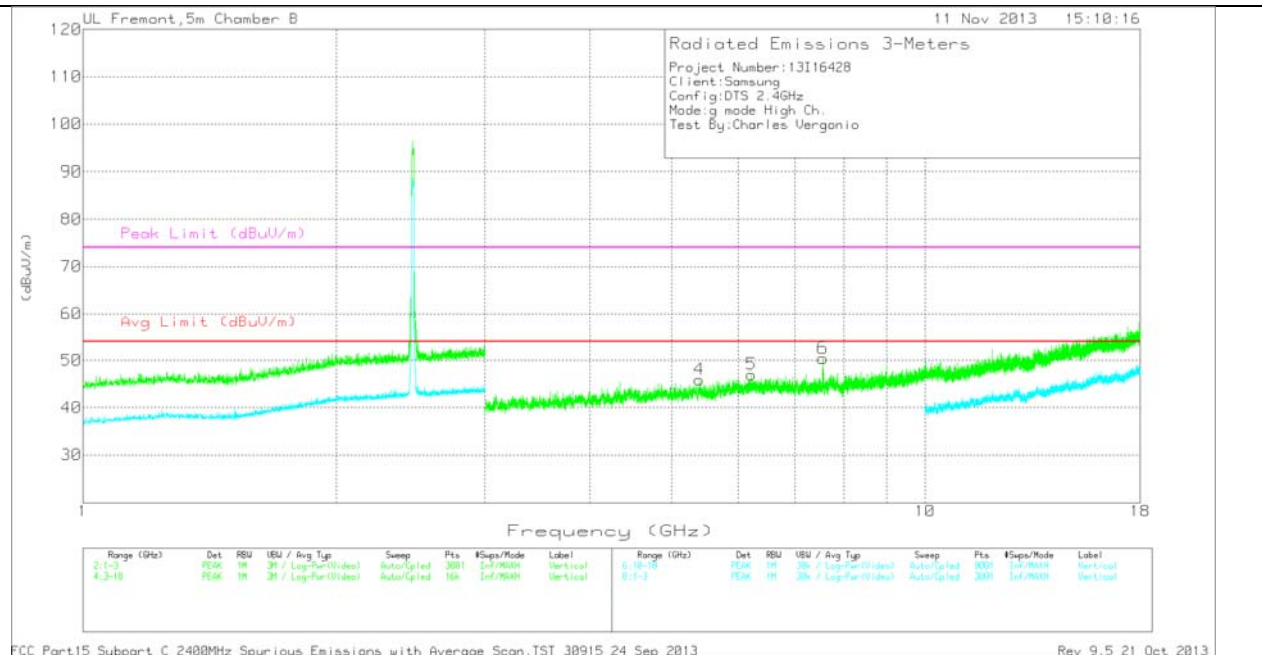
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

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

Marker	Frequenc y (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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.692	41.8	PK	33.7	-31.2	44.3	53.97	-9.67	74	-29.7	0-360	201	H
2	* 4.546	41.5	PK	34.5	-30.3	45.7	53.97	-8.27	74	-28.3	0-360	99	H
3	5.296	39.67	PK	34.9	-29	45.57	53.97	-8.4	74	-28.43	0-360	201	H
4	* 5.391	39.54	PK	34.9	-28.5	45.94	53.97	-8.03	74	-28.06	0-360	99	V
5	6.22	38.81	PK	36	-27.8	47.01	53.97	-6.96	74	-26.99	0-360	99	V
6	* 7.559	41.7	PK	36	-27.3	50.4	53.97	-3.57	74	-23.6	0-360	202	V

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

PK - Peak detector

Radiated Emissions

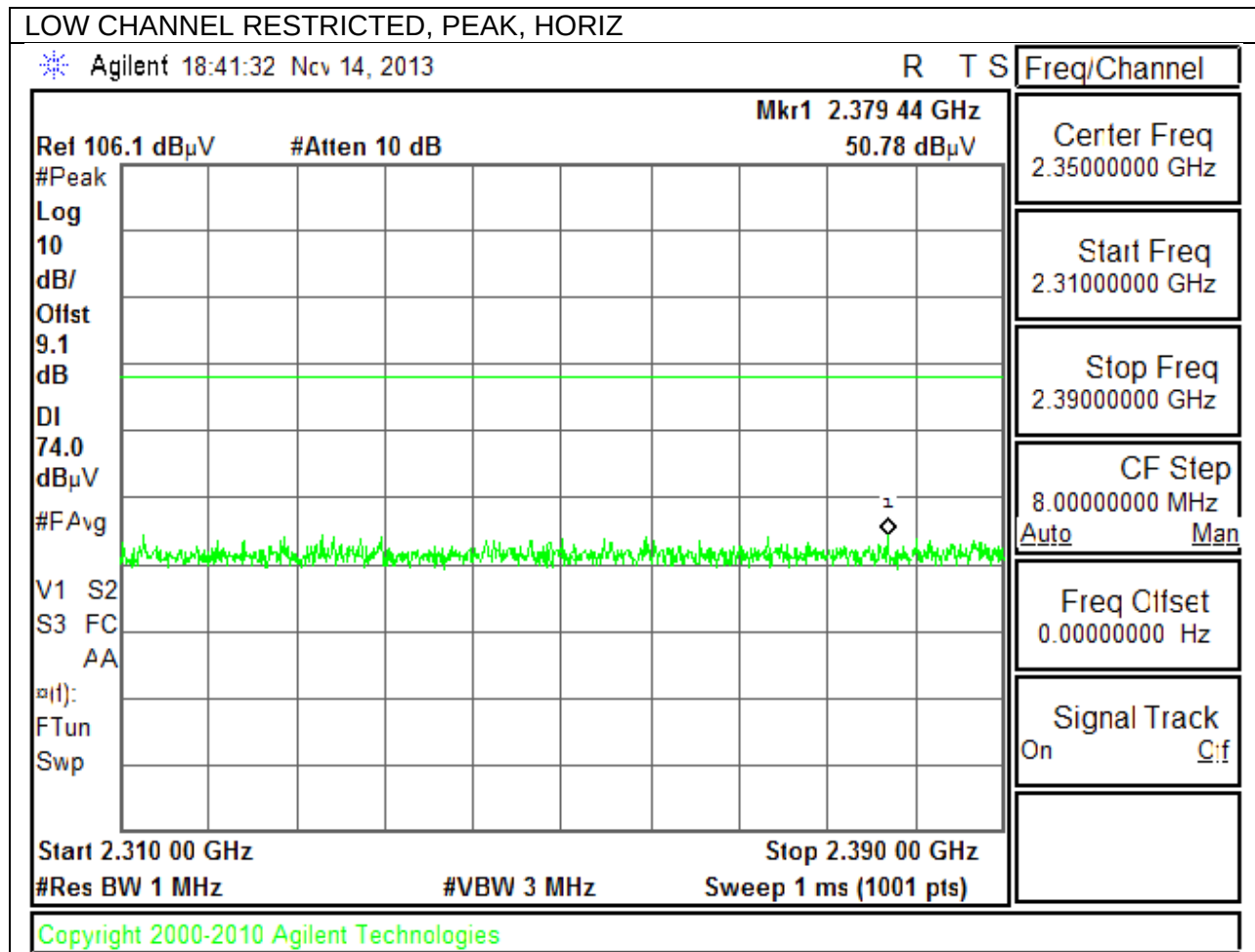
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.559	19.16	PK	36	-27.3	27.86	53.97	-26.11	74	-46.14	317	397	V

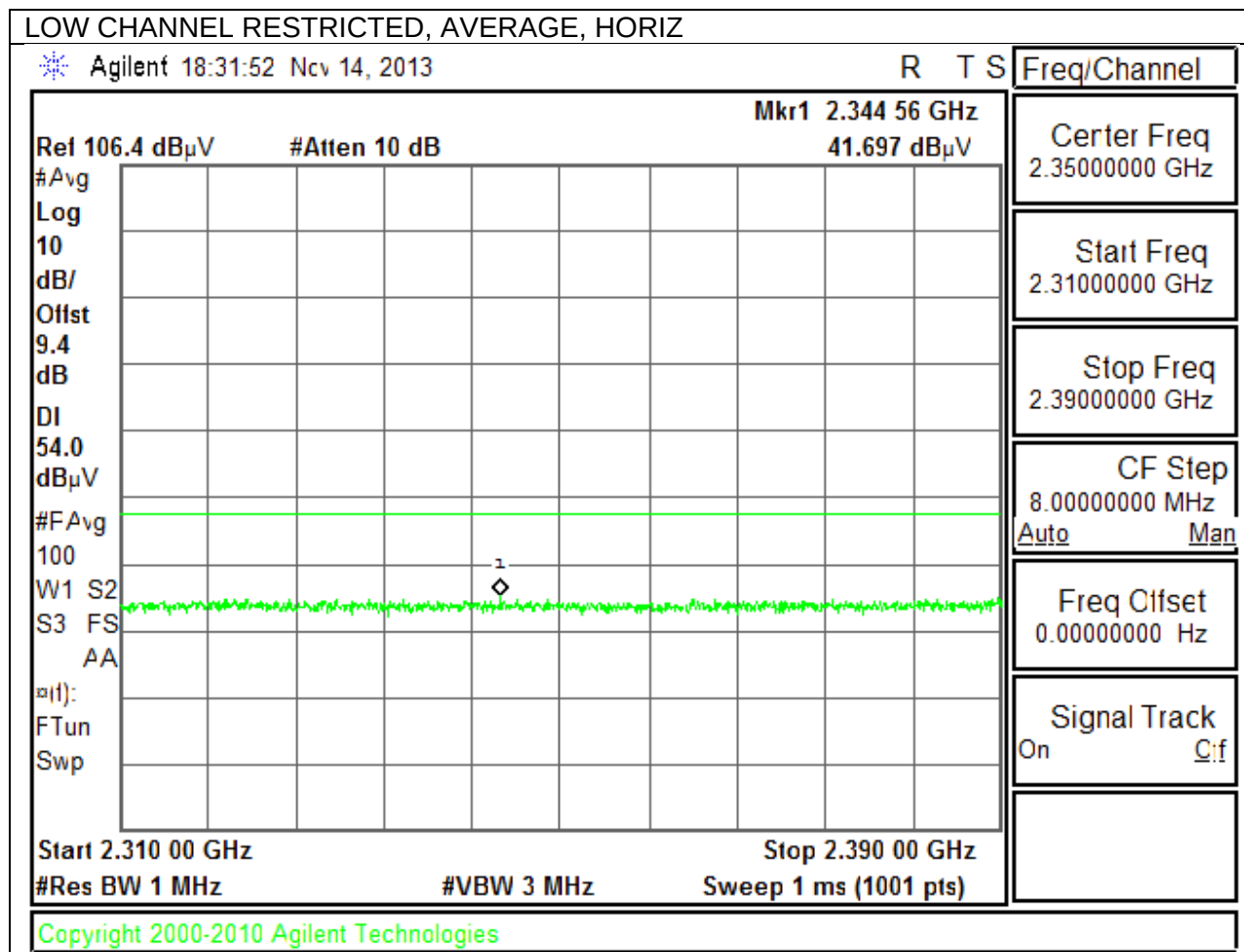
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

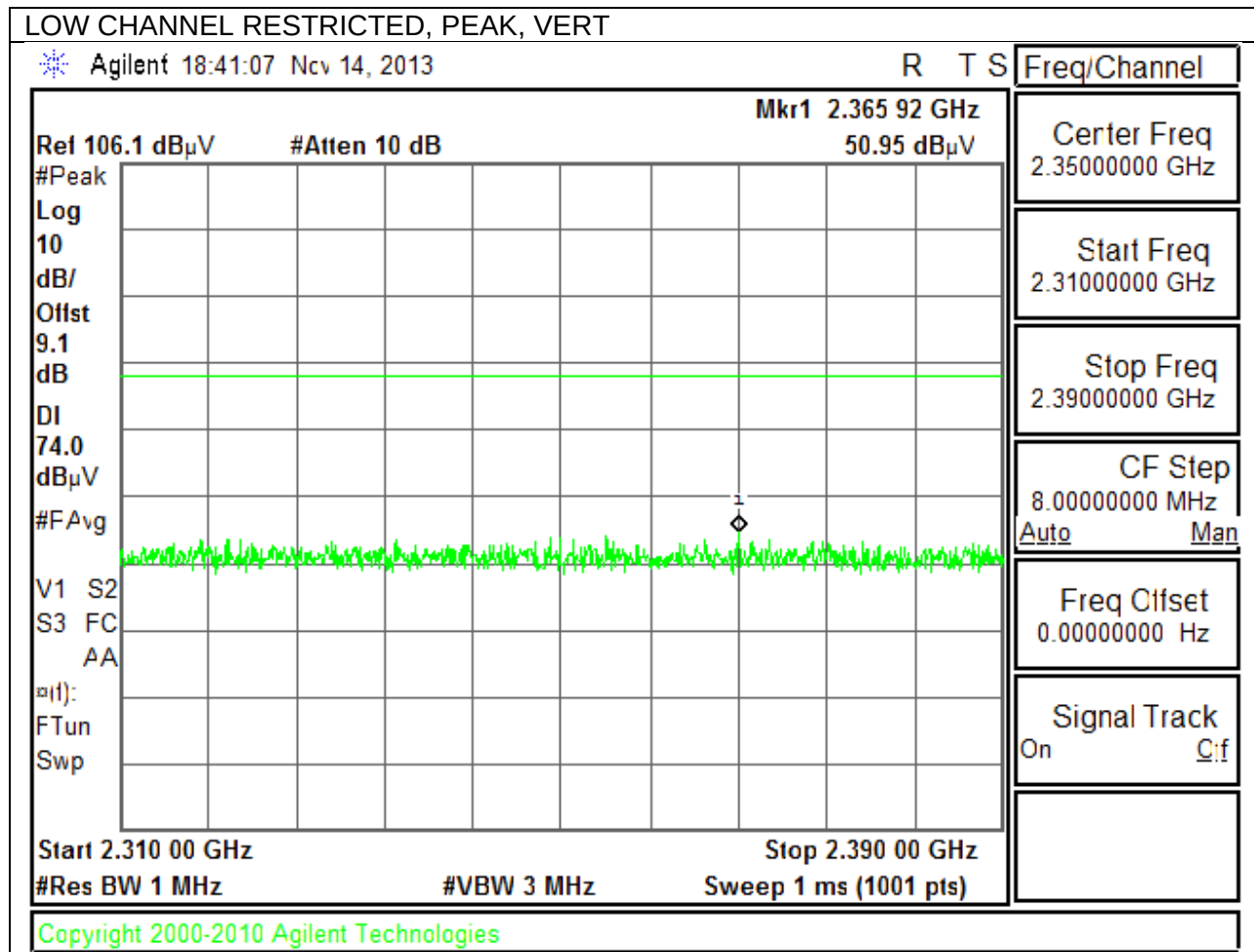
PK - Peak detector

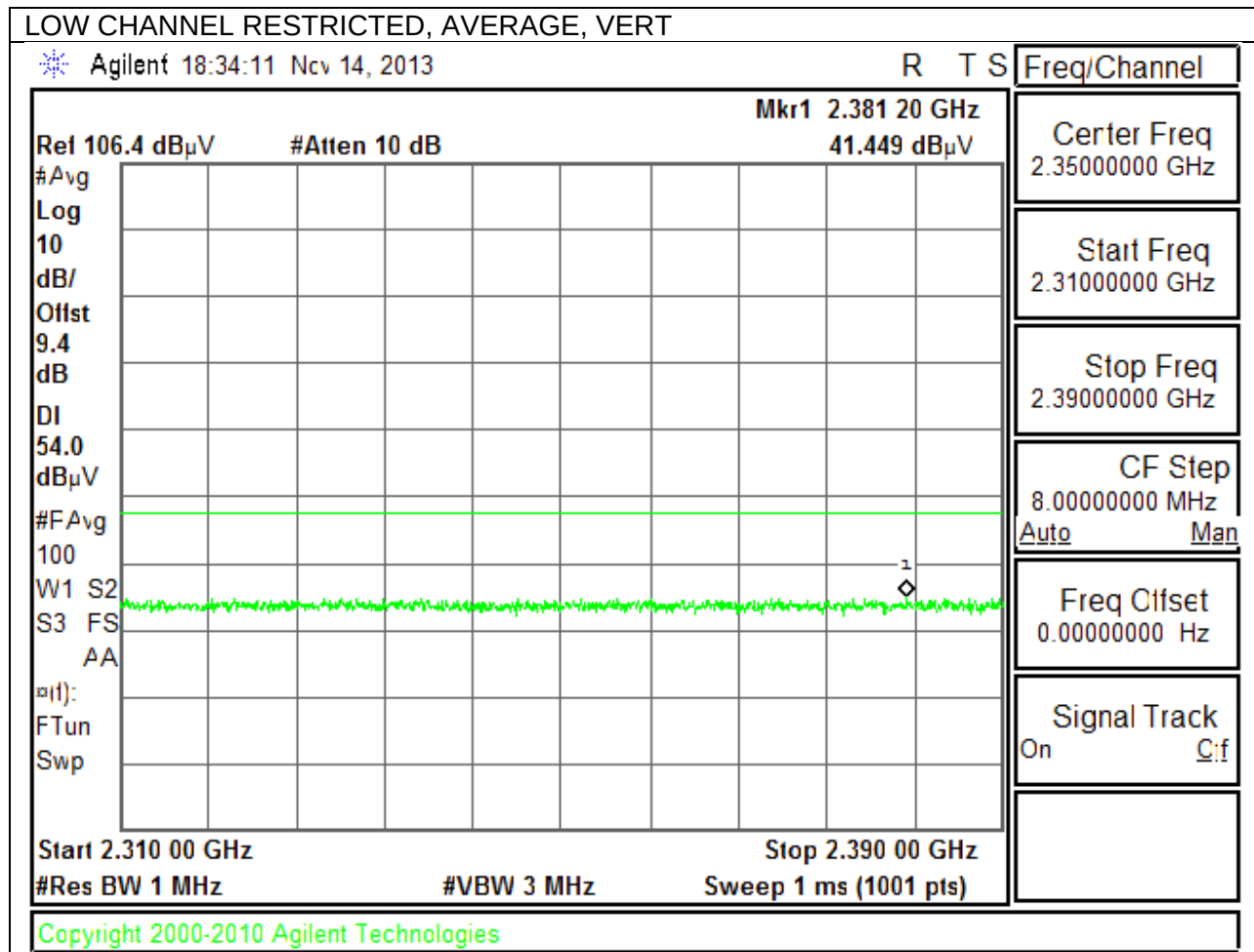
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

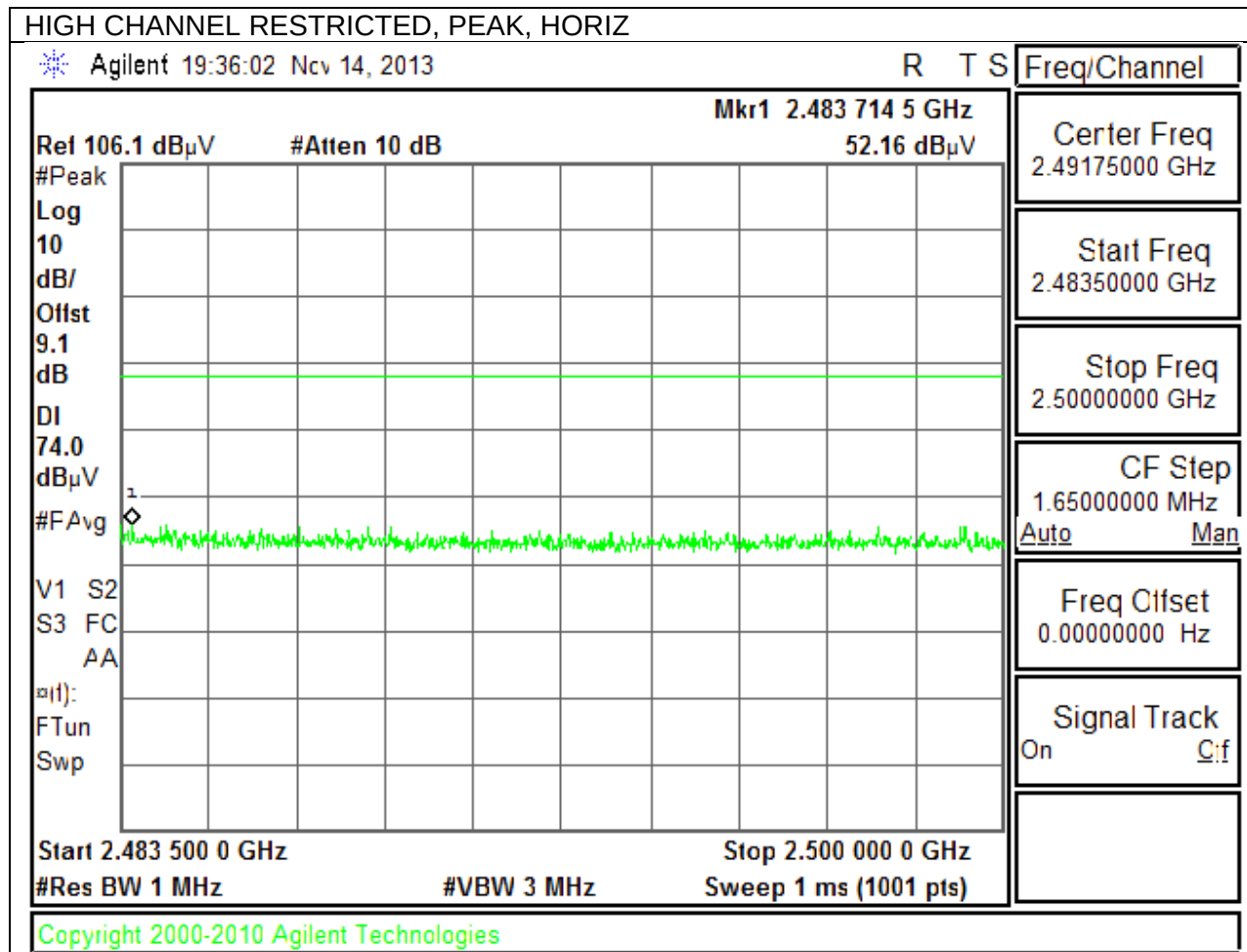


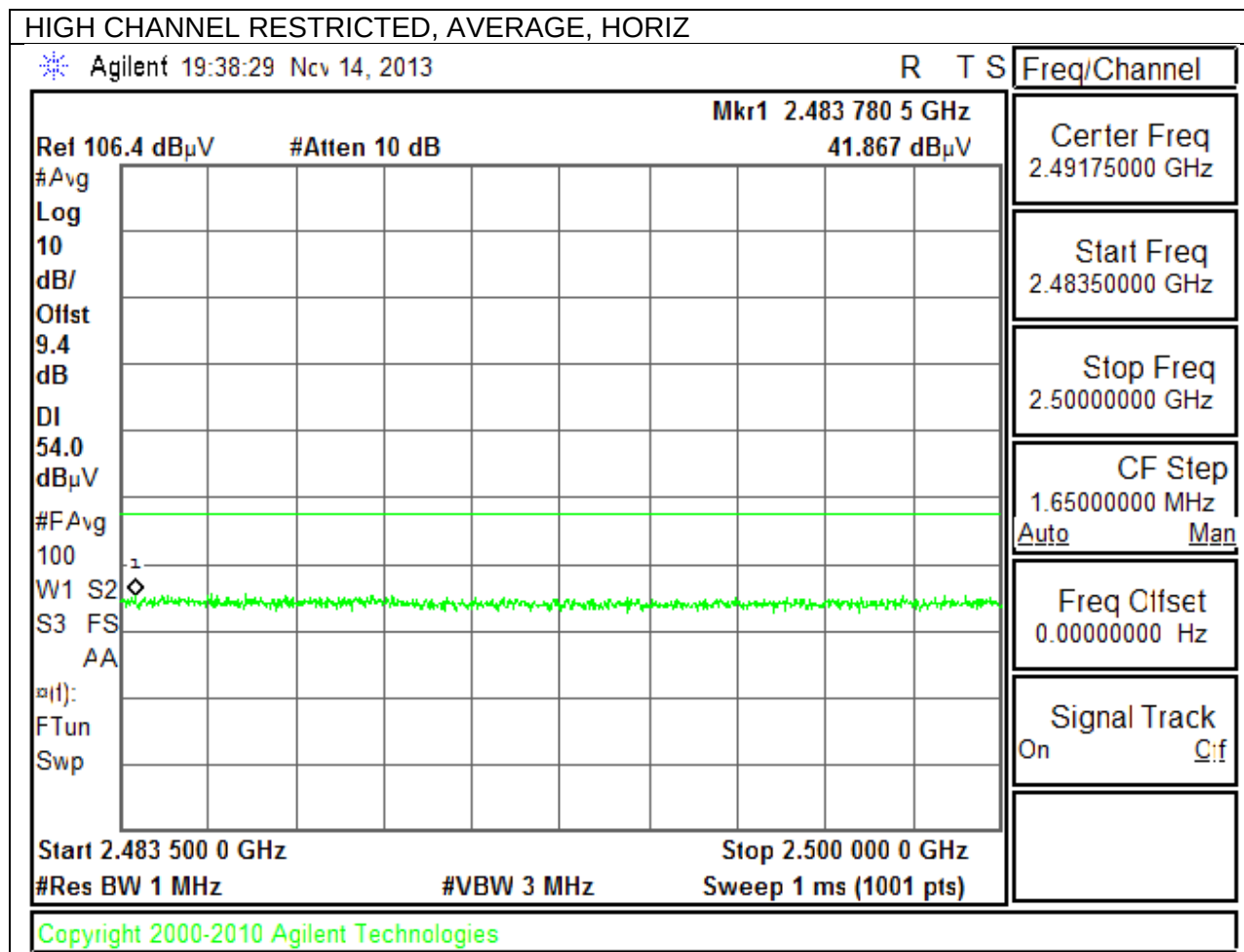


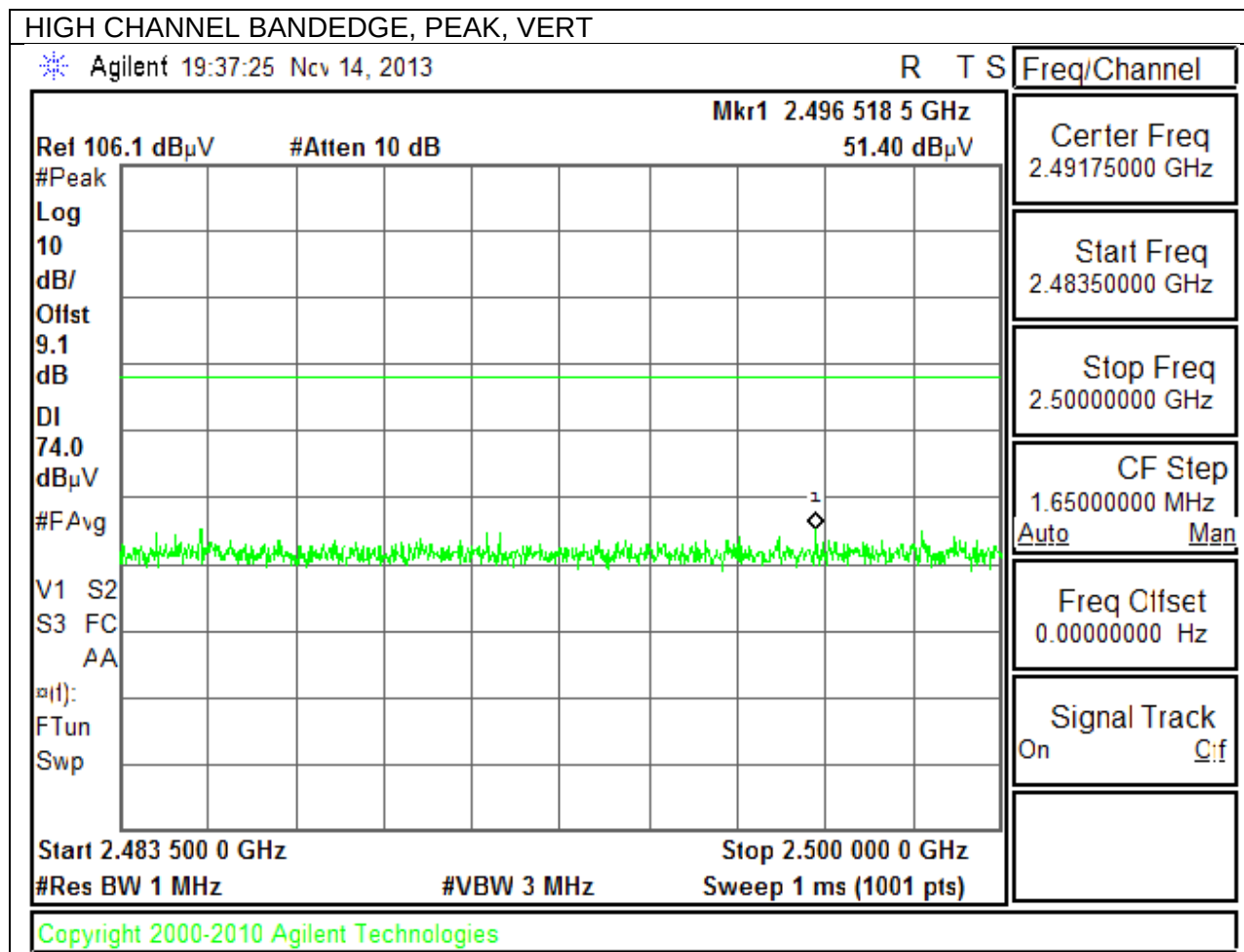


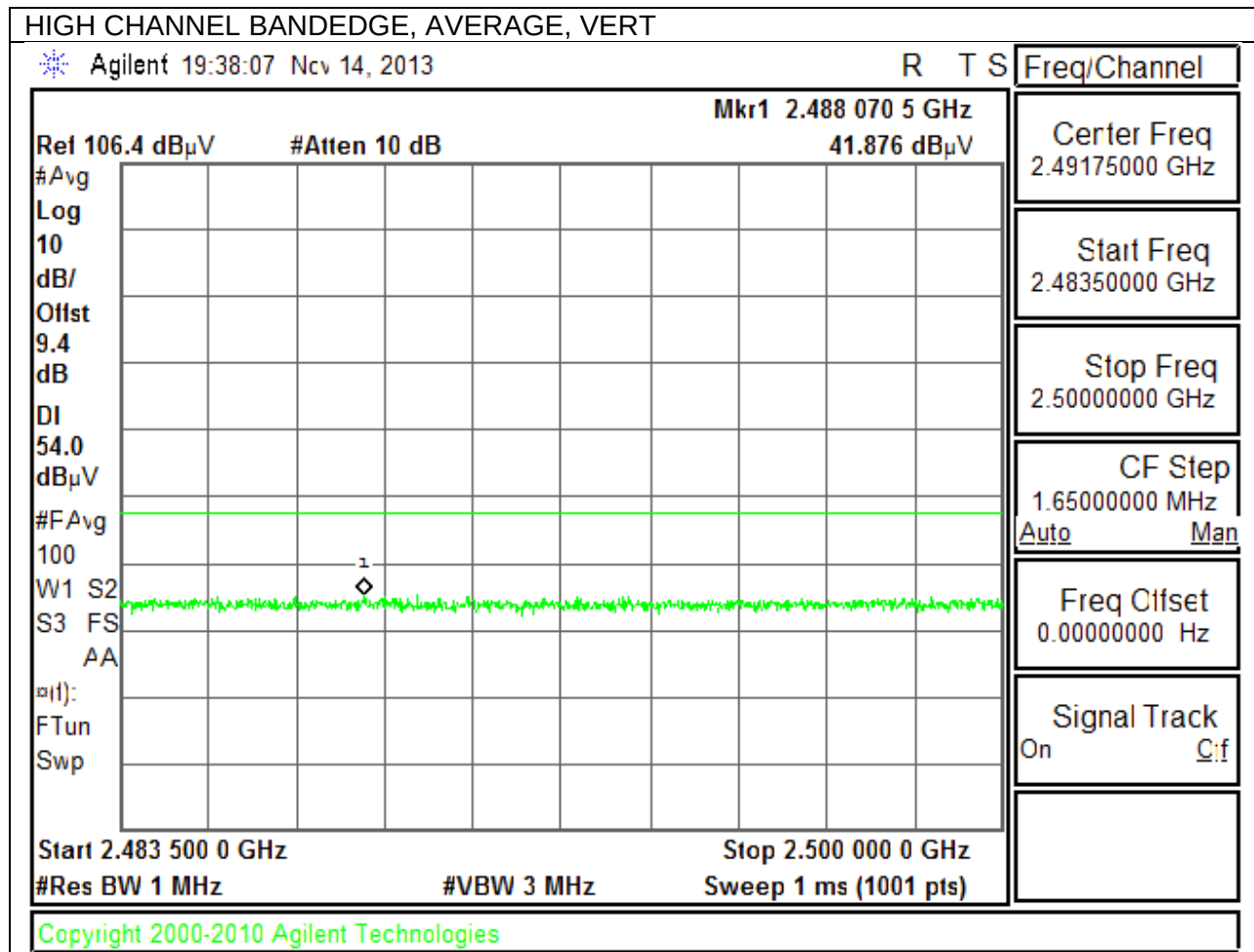


AUTHORIZED BANDEDGE (HIGH CHANNEL)



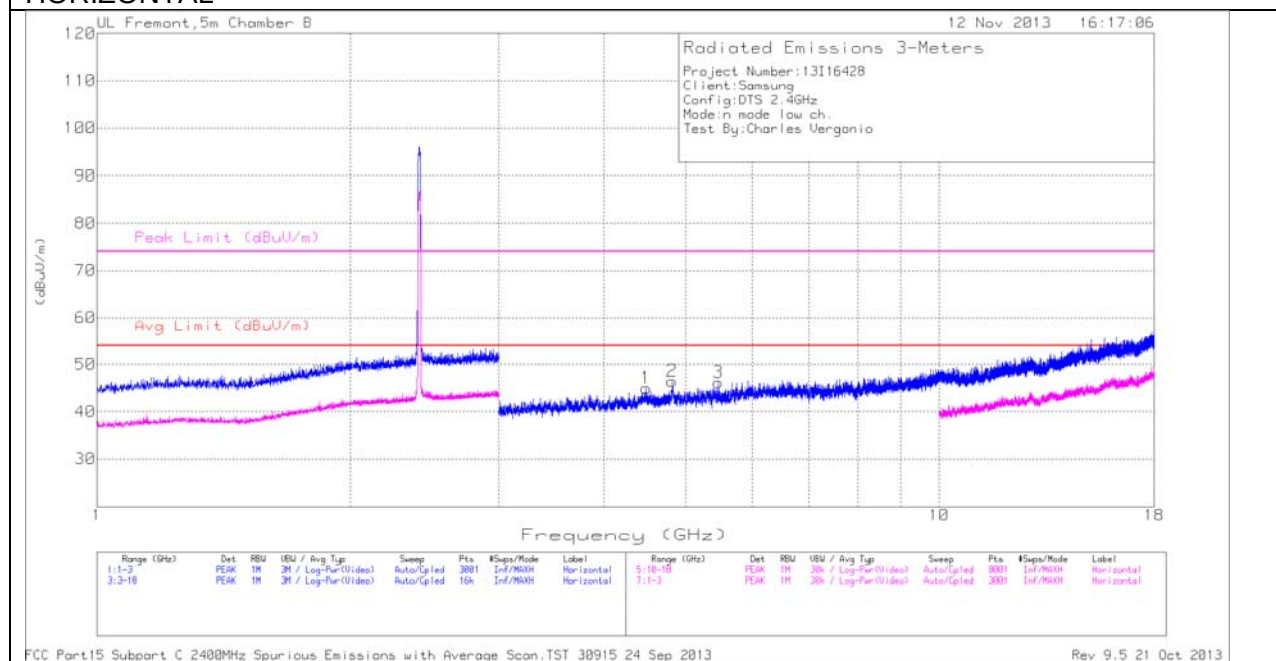






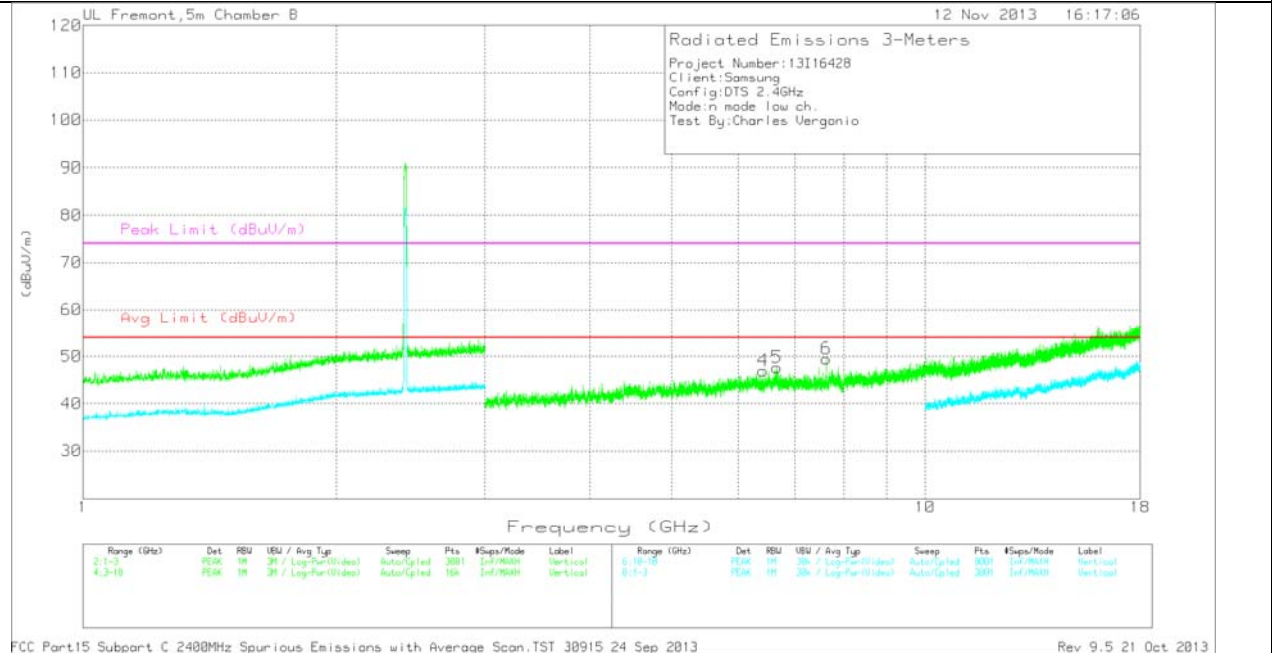
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

Marker	Frequenc y (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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.489	39.74	PK	34.5	-29.3	44.94	53.97	-9.03	74	-29.06	0-360	201	H
2	4.82	40.93	PK	34.7	-29.2	46.43	53.97	-7.54	74	-27.57	0-360	99	H
3	5.466	40.94	PK	34.9	-29.7	46.14	53.97	-7.83	74	-27.86	0-360	201	H
4	6.42	39.97	PK	35.9	-28.9	46.97	53.97	-7	74	-27.03	0-360	202	V
5	6.666	40.72	PK	35.8	-28.9	47.62	53.97	-6.35	74	-26.38	0-360	99	V
6	7.631	41.07	PK	36.1	-27.7	49.47	53.97	-4.5	74	-24.53	0-360	202	V

PK - Peak detector

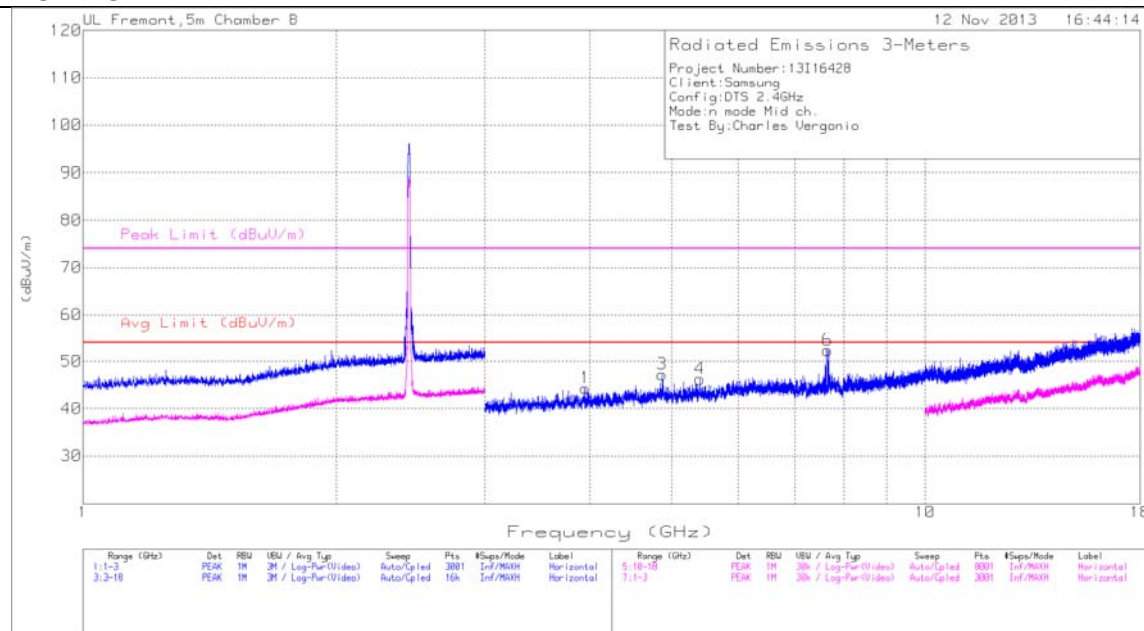
Radiated Emissions

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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.632	28.48	MAV1	36.1	-27.7	36.88	53.97	-17.09	74	-37.12	300	375	V

MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

MID CHANNEL HORIZONTAL

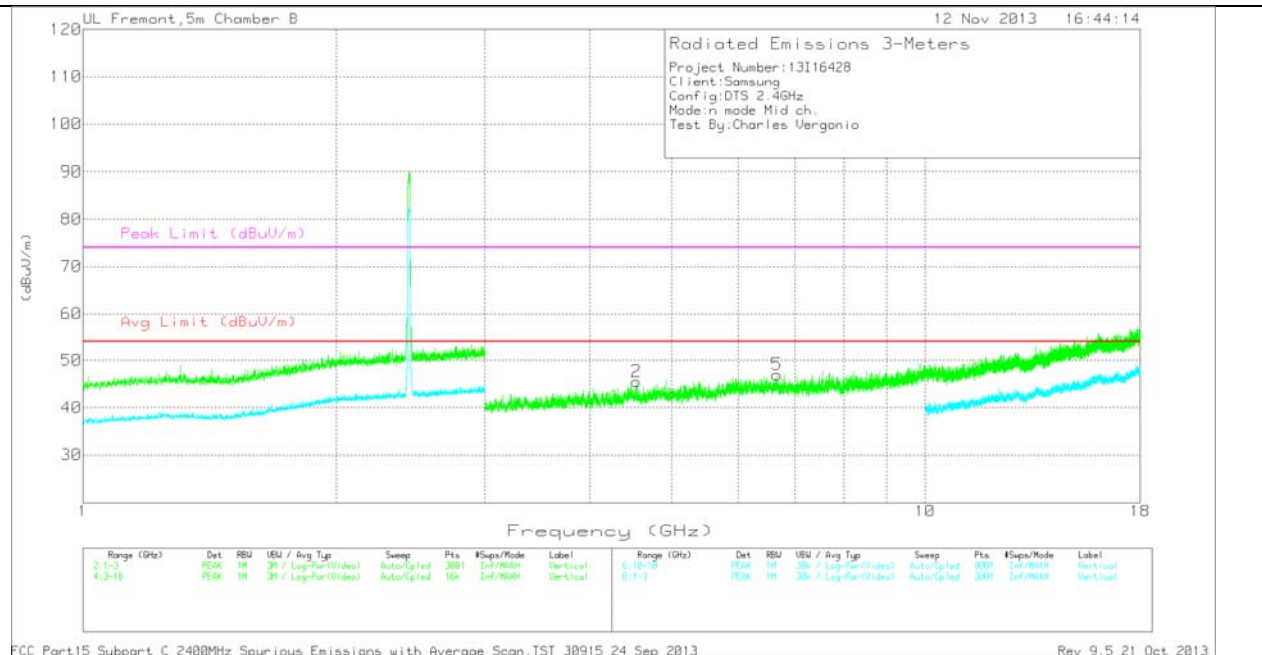


FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013

Rev 9.5 21 Oct 2013

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

Marker	Frequenc y (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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.952	41.45	PK	33.9	-31	44.35	53.97	-9.62	74	-29.65	0-360	201	H
3	4.873	43.16	PK	34.7	-30.6	47.26	53.97	-6.71	74	-26.74	0-360	201	H
4	5.401	40.16	PK	34.9	-28.8	46.26	53.97	-7.71	74	-27.74	0-360	99	H
6	7.658	43.86	PK	36.1	-27.6	52.36	53.97	-1.61	74	-21.64	0-360	201	H
2	4.54	40.97	PK	34.5	-30	45.47	53.97	-8.5	74	-28.53	0-360	202	V
5	6.67	40.18	PK	35.8	-29	46.98	53.97	-6.99	74	-27.02	0-360	202	V

PK - Peak detector

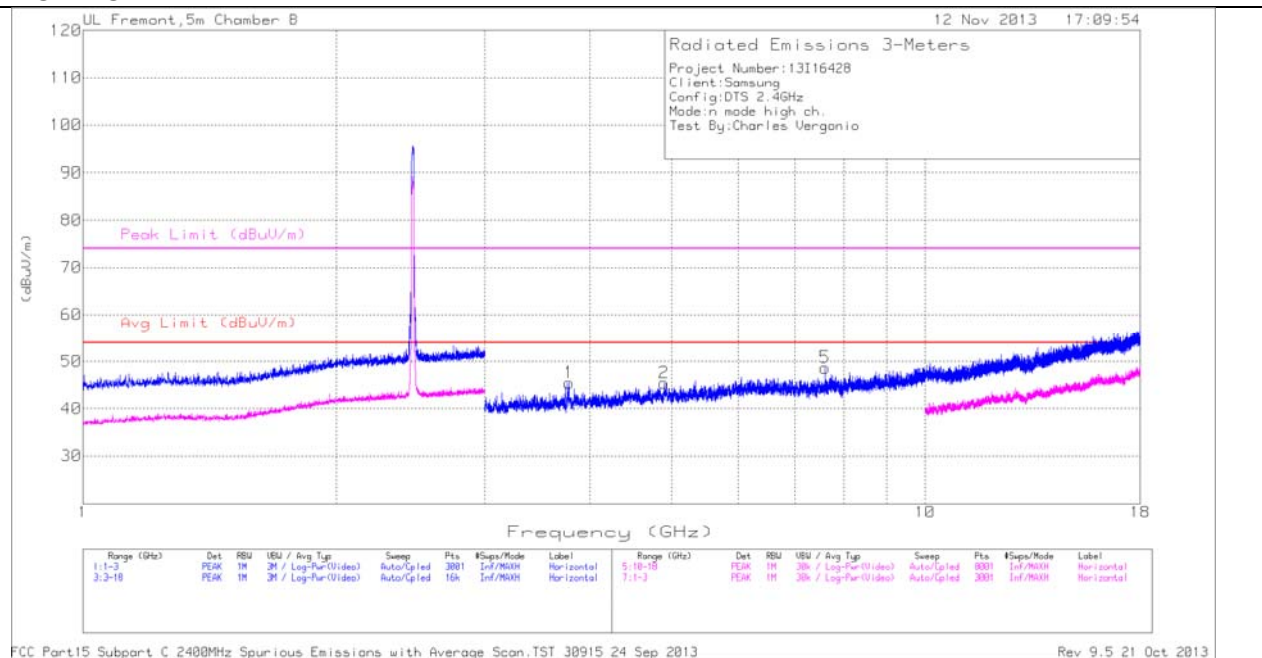
Radiated Emissions

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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.656	27.51	MAV1	36.1	-27.6	36.01	53.97	-17.96	74	-37.99	102	279	H

MAV1 - KDB558074 Option 1 Maximum RMS Average

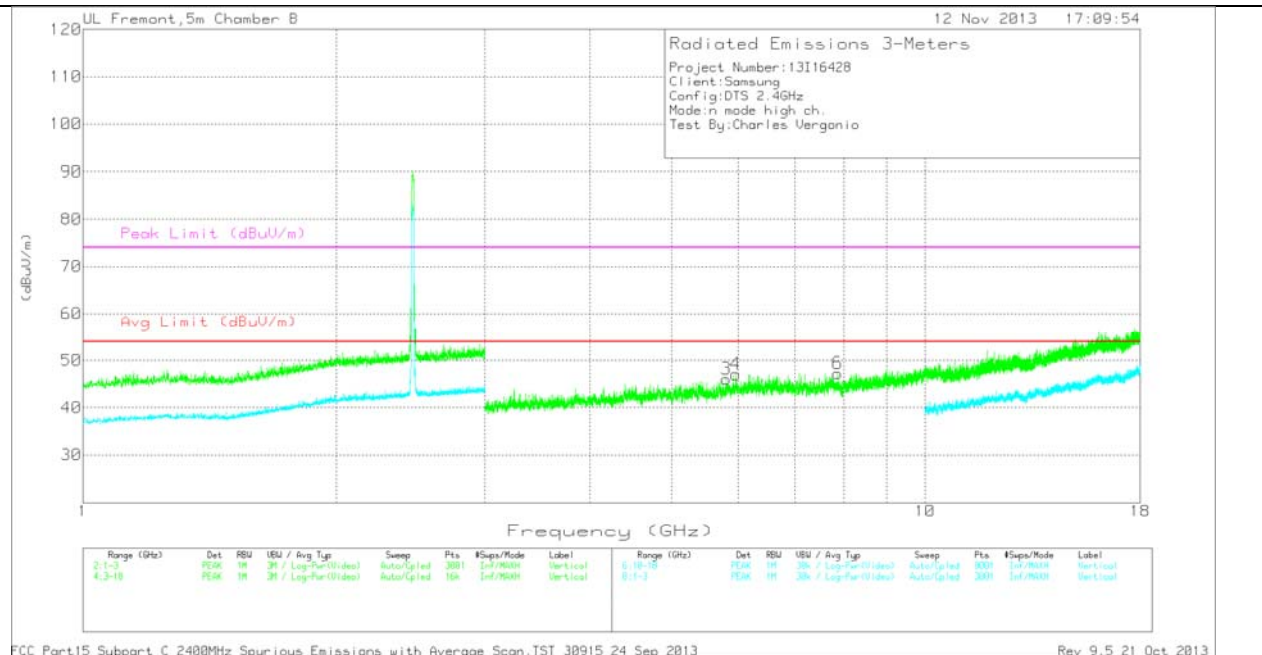
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

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

Marker	Frequenc y (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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.776	42.74	PK	33.8	-31.1	45.44	53.97	-8.53	74	-28.56	0-360	99	H
2	4.896	41.42	PK	34.6	-30.6	45.42	53.97	-8.55	74	-28.58	0-360	99	H
5	7.606	39.94	PK	36.1	-27.4	48.64	53.97	-5.33	74	-25.36	0-360	99	H
3	5.808	40.34	PK	35.4	-29.7	46.04	53.97	-7.93	74	-27.96	0-360	202	V
4	5.958	39.74	PK	35.8	-28.5	47.04	53.97	-6.93	74	-26.96	0-360	202	V
6	7.872	38.21	PK	36.2	-27.2	47.21	53.97	-6.76	74	-26.79	0-360	99	V

PK - Peak detector

Radiated Emissions

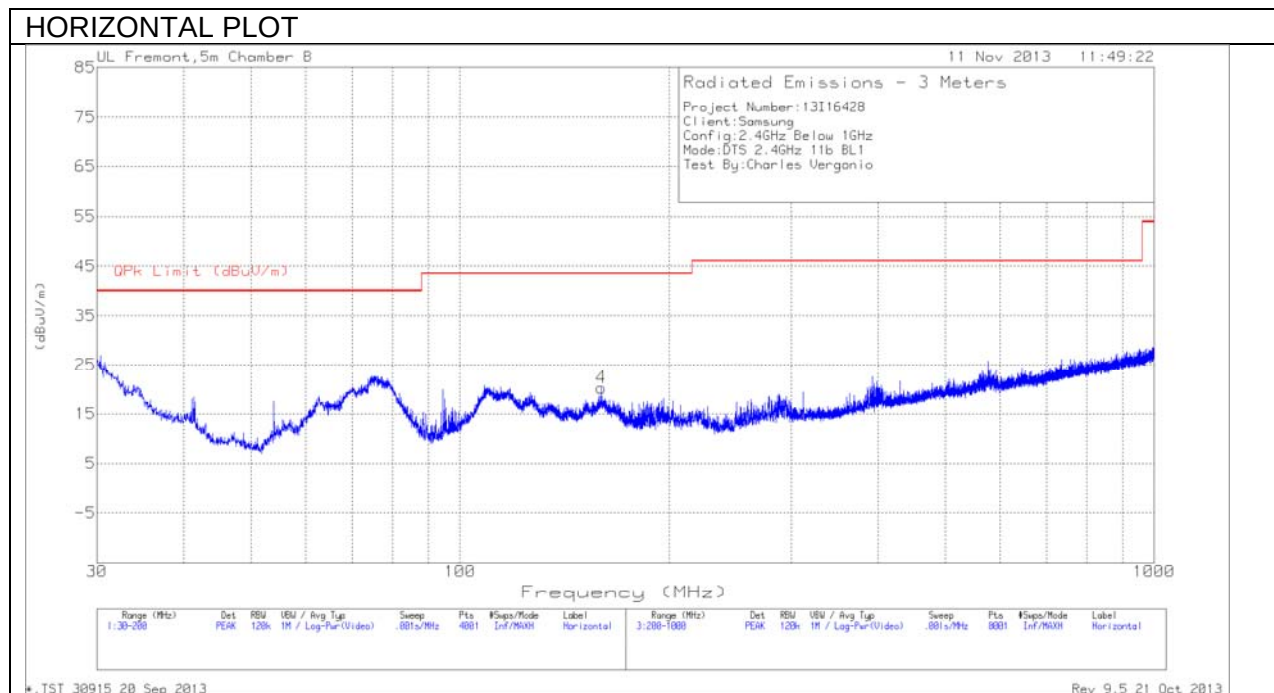
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.607	28.19	MAV1	36.1	-27.4	36.89	53.97	-17.08	74	-37.11	48	232	H

MAV1 - KDB558074 Option 1 Maximum RMS Average

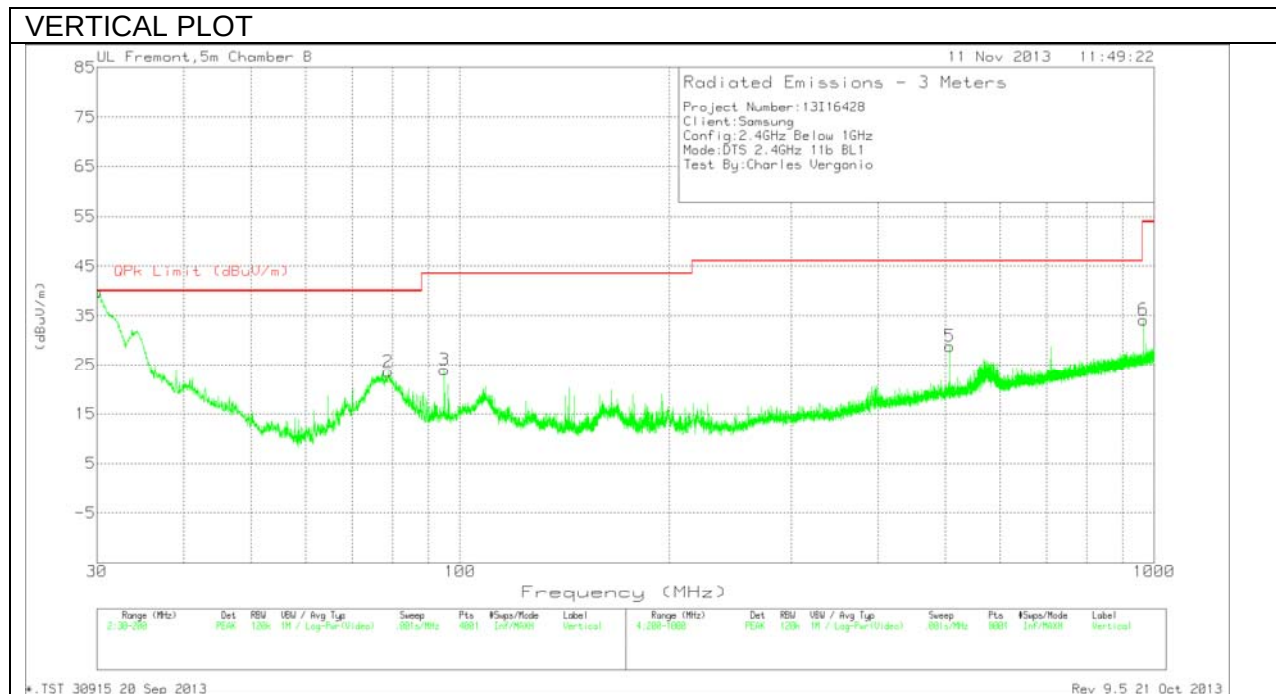
FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

10.3. WORST-CASE BELOW 1 GHz

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



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



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	159.795	35.47	PK	12.1	-27.3	20.27	43.52	-23.25	0-360	400	H
1	30.0425	47.72	PK	20.9	-28.9	39.72	40	-28	0-360	100	V
2	78.8325	44.29	PK	7.6	-28.3	23.59	40	-16.41	0-360	100	V
3	94.94	43.41	PK	8.7	-28.1	24.01	43.52	-19.51	0-360	100	V
5	507.4	36.8	PK	17.8	-25.8	28.8	46.02	-17.22	0-360	200	V
6	964.5	33.95	PK	22.8	-22.6	34.15	53.97	-19.82	0-360	100	V

PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.2545	43.06	QP	20.7	-28.9	34.86	40	-5.14	1	100	V

QP - Quasi-Peak detector

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11. 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 2009.

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 dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
1	.1545	40.6	PK	.1	0	40.7	65.8	-25.1	-	-
2	.1545	18.54	Av	.1	0	18.64	-	-	55.8	-37.16
3	.4335	31.32	PK	.1	0	31.42	57.2	-25.78	-	-
4	.4335	18.29	Av	.1	0	18.39	-	-	47.2	-28.81
5	2.8005	38.83	PK	.1	.1	39.03	56	-16.97	-	-
6	2.8005	22.33	Av	.1	.1	22.53	-	-	46	-23.47
7	9.483	34.72	PK	.1	.1	34.92	60	-25.08	-	-
8	9.483	19.18	Av	.1	.1	19.38	-	-	50	-30.62

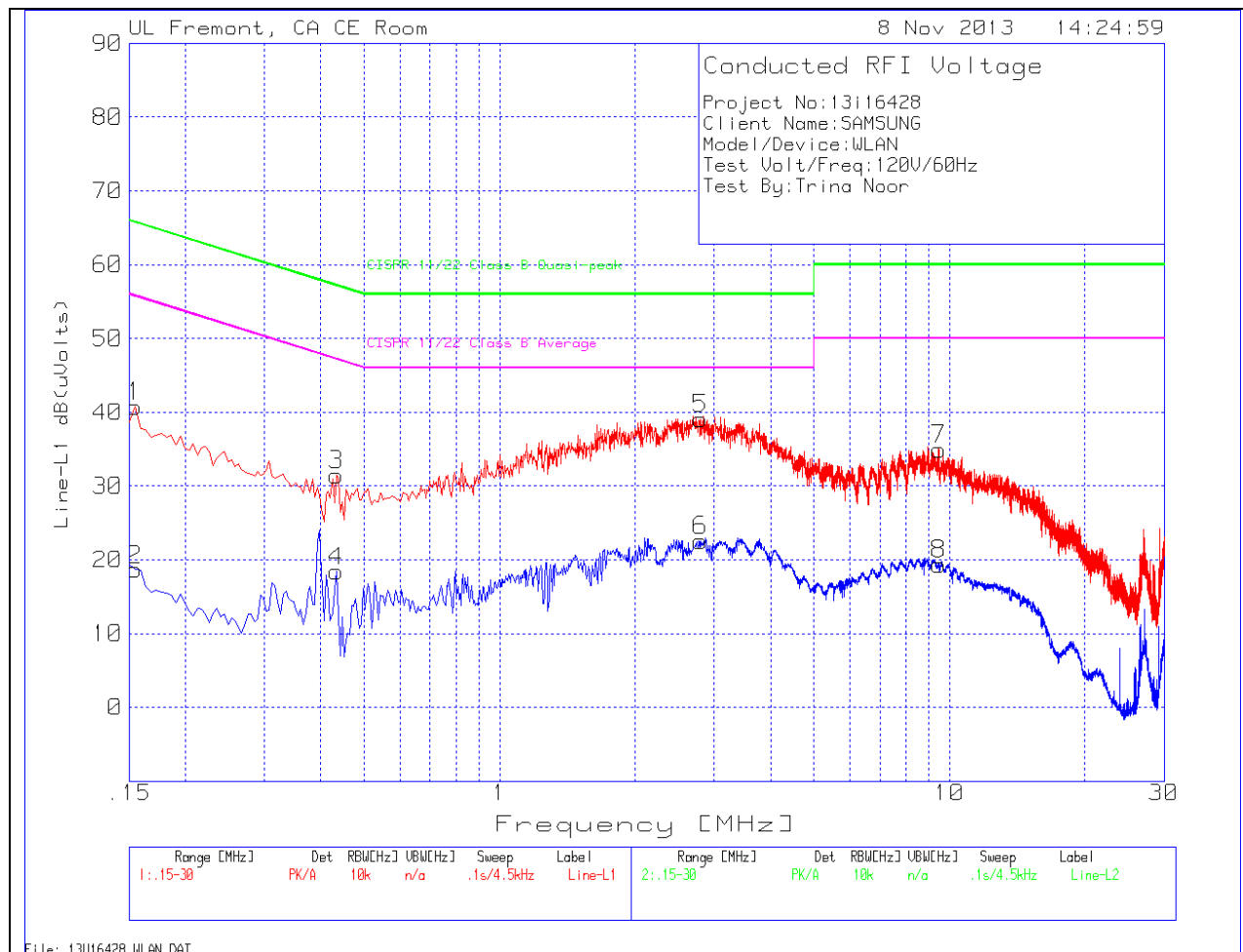
Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
9	.3975	32.05	PK	.1	0	32.15	57.9	-25.75	-	-
10	.3975	17.41	Av	.1	0	17.51	-	-	47.9	-30.39
11	.807	30.35	PK	.1	0	30.45	56	-25.55	-	-
12	.807	16.8	Av	.1	0	16.9	-	-	46	-29.1
13	26.61	22.28	PK	.5	.3	23.08	60	-36.92	-	-
14	26.61	13.01	Av	.5	.3	13.81	-	-	50	-36.19

PK - Peak detector
Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS

