



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Phone + Bluetooth & DTS/UNII a/b/g/n/ac + NFC

MODEL NUMBER: SM-G710S; SM-G710L; SM-G710K

FCC ID: A3LSMG710S

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung

EUT DESCRIPTION: GSM/WCDMA Phone + Bluetooth & WLAN 2.4GHz b/g/n + NFC

MODEL: SM-G710S; SM-G710L; SM-G710K

SERIAL NUMBER: FK-366A, FK-366B, FK-366C, FK-366D

DATE TESTED: November 27 - December 21, 2013

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

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

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

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

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	19.37	86.50
2412 - 2462	802.11g	21.09	128.53
2412 - 2462	802.11n HT20	20.15	103.51
5745-5825	802.11a	17.88	61.38
5745-5825	802.11n HT20	17.95	62.37
5755-5795	802.11n HT40	19.38	86.70
5775	802.11AC HT80	18.11	64.71

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain -1.51dBi for 2.4 GHz and -0.09dBi for 5.8GHz

5.4. SOFTWARE AND FIRMWARE

Software version was 3.4.0-g9f6ebe1-00072-gcee1ab4b

The firmware used was M8974A-0.0.19.0.01.

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 X orientation.

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

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: 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	Samusng	SM-G710S	E18KWKTAOU	N/A
Earphone	Samsung	SM-G710S	N/A	N/A

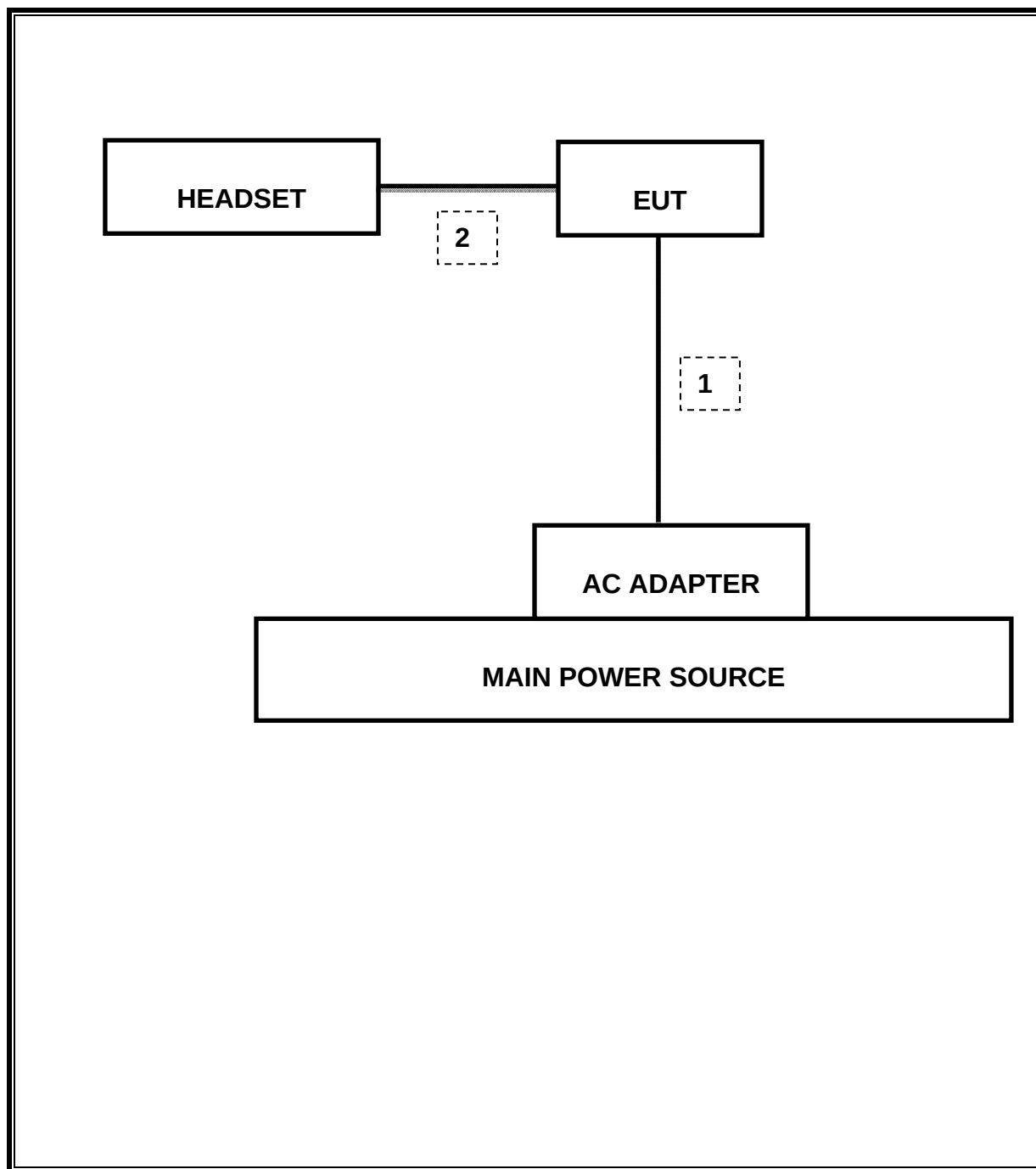
I/O CABLES

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	12/11/13	12/11/14
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/13	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/16/13	01/16/14
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/22/13	10/22/14
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 D01 DTS Meas Guidance v03r01: 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	8.60MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	31.26dBc
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	21.09dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-5.55dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	28.43dBuV(AV)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	52.309dBuV/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 KDB 558074 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	9.10	0.5
Mid	2437	8.60	0.5
High	2462	9.08	0.5
Worst		8.60	

9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	16.50	0.5
Mid	2437	16.46	0.5
High	2462	16.42	0.5
Worst		16.42	

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	17.67	0.5
Mid	2437	17.38	0.5
High	2462	17.46	0.5
Worst		17.38	

9.1.4. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	16.54	0.5
Mid	5785	16.50	0.5
High	5825	16.45	0.5
Worst		16.450	

9.1.5. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.71	0.5
Mid	5785	17.71	0.5
High	5825	17.71	0.5
Worst		17.710	

9.1.6. 802.11n HT40 MODE IN THE 5.8 GHz BAND

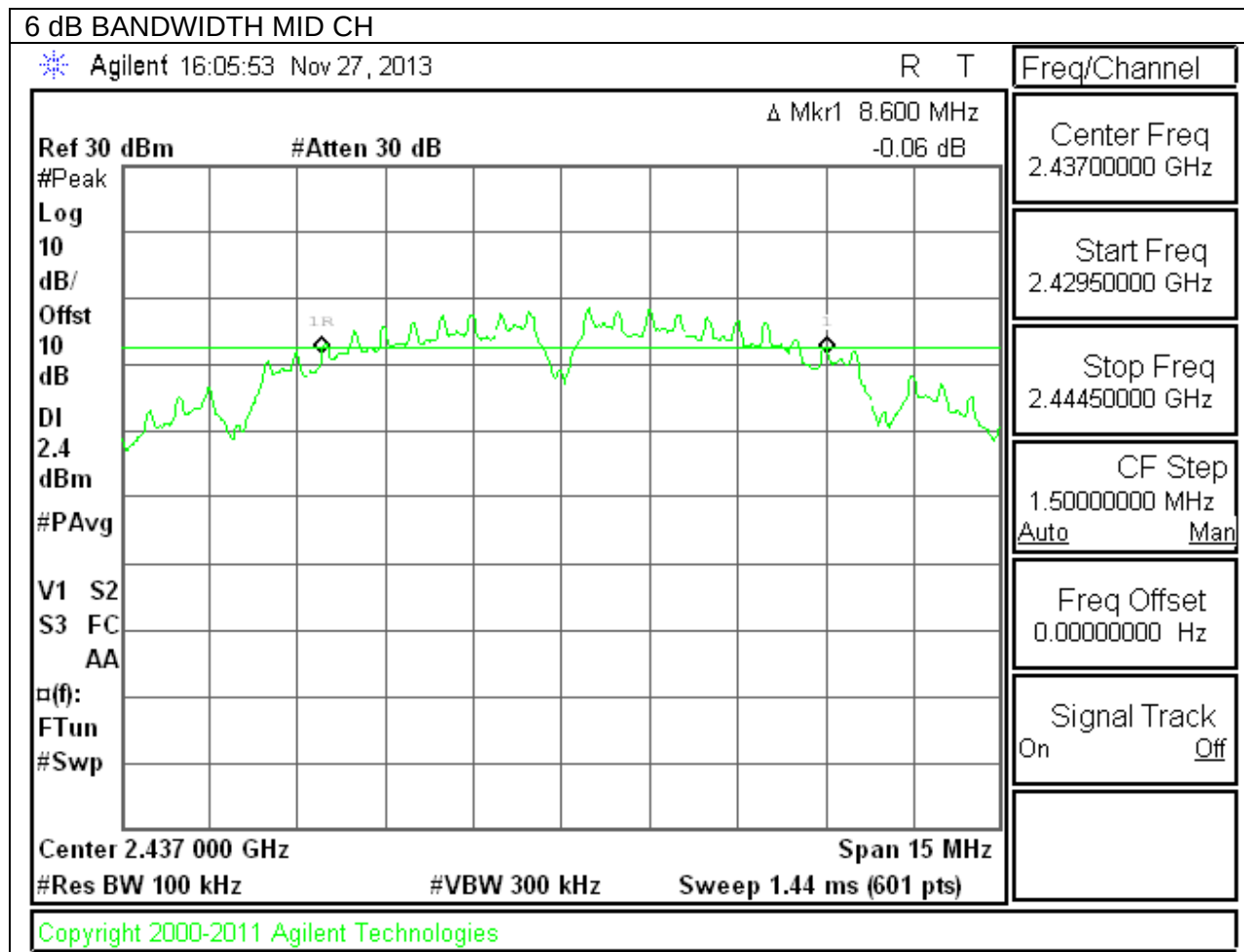
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	35.7	0.5
High	5795	35.7	0.5
Worst		35.7	0.5

9.1.7. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

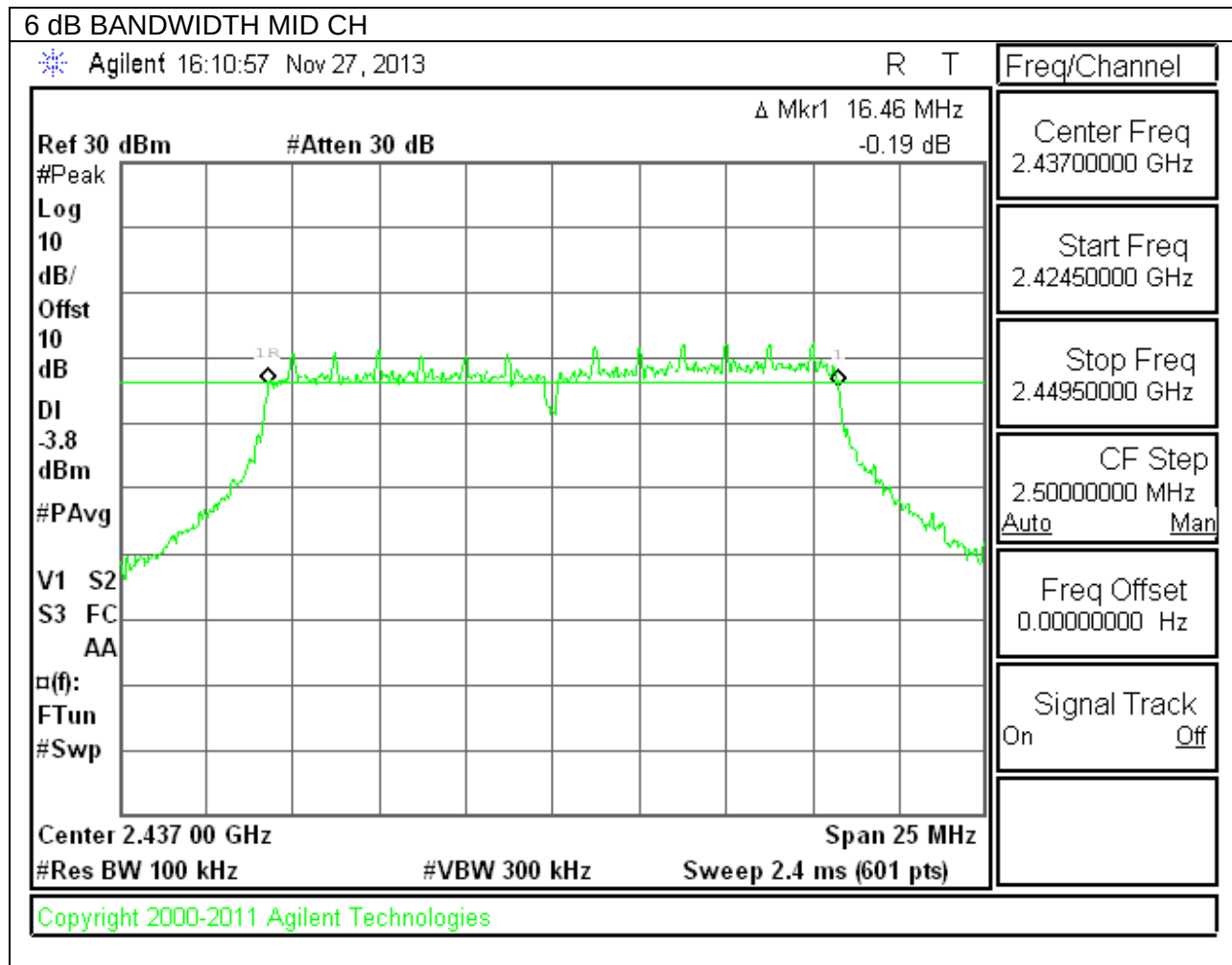
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
High	5775	75.5	0.5
Worst		75.5	0.5

2.4 GHz BAND

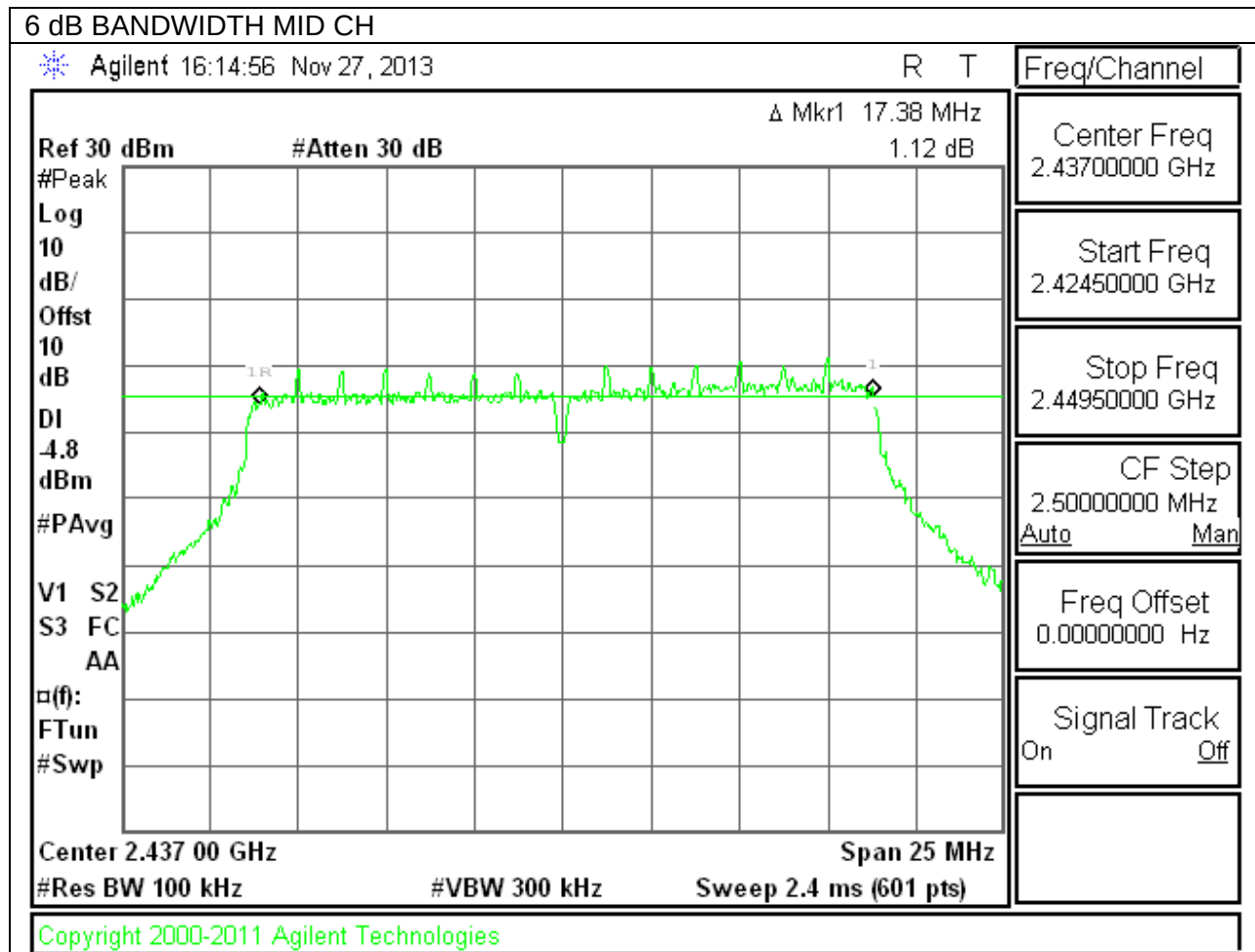
802.11b 6 dB BANDWIDTH



802.11g 6 dB BANDWIDTH

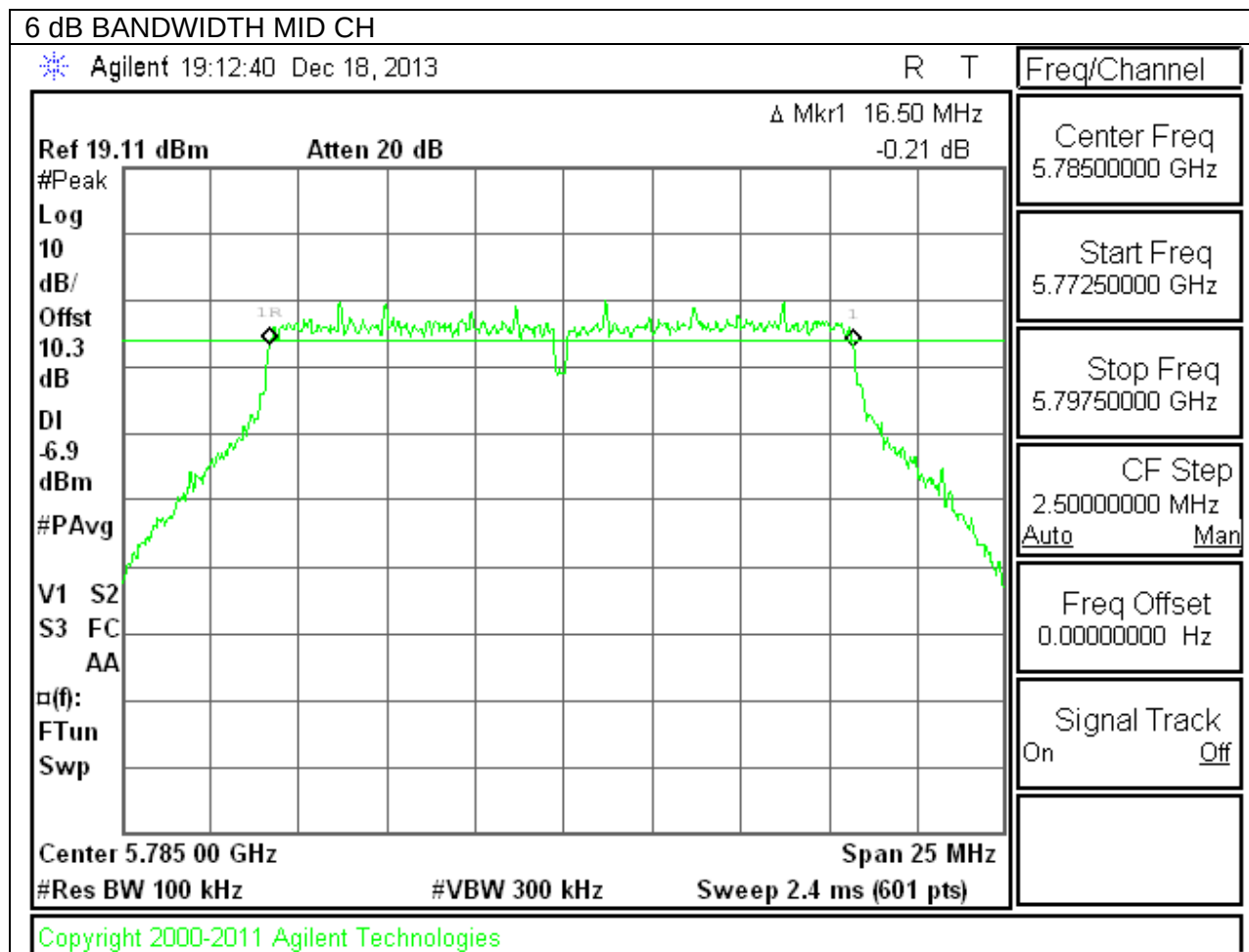


802.11n 6 dB BANDWIDTH

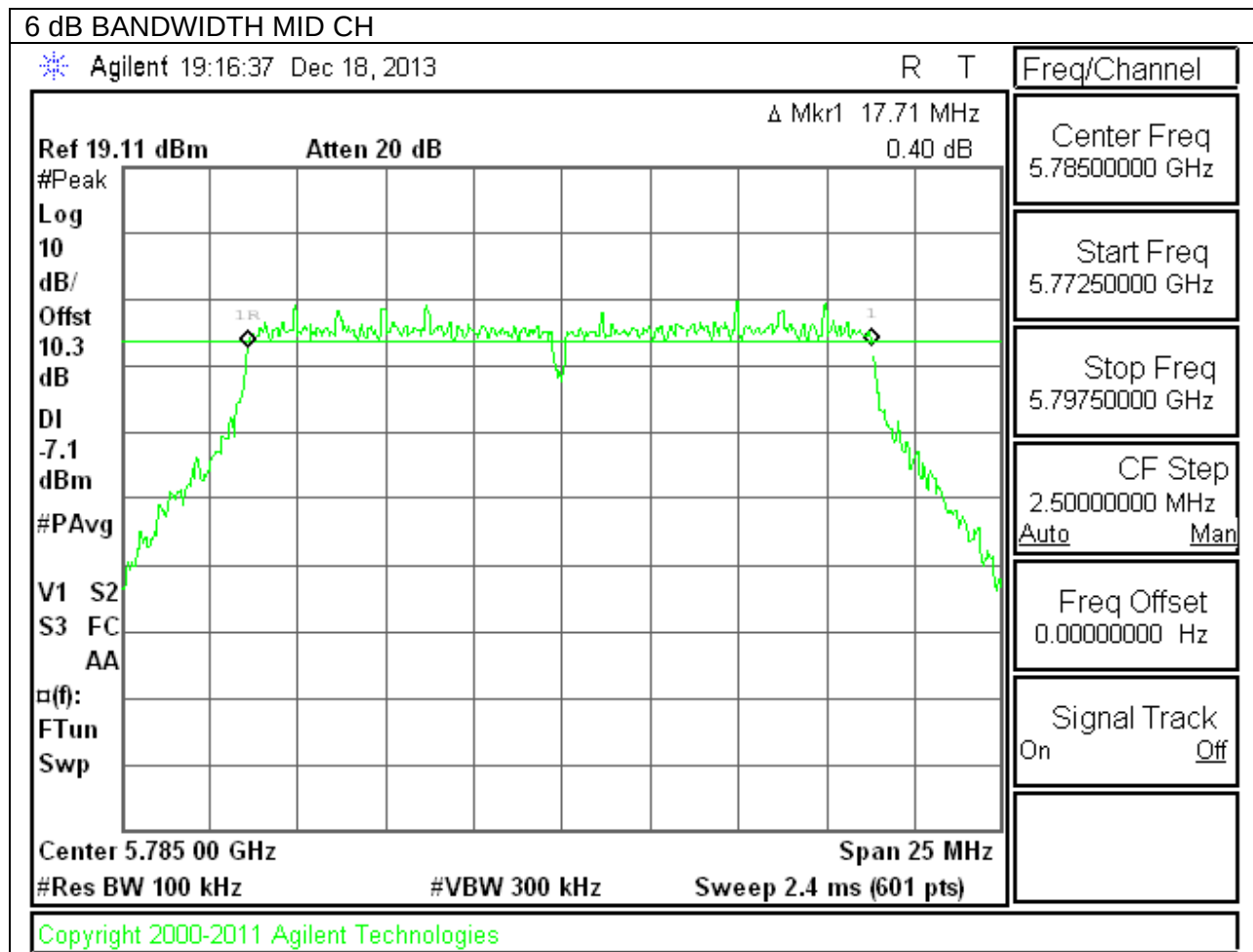


5.8 GHz BAND

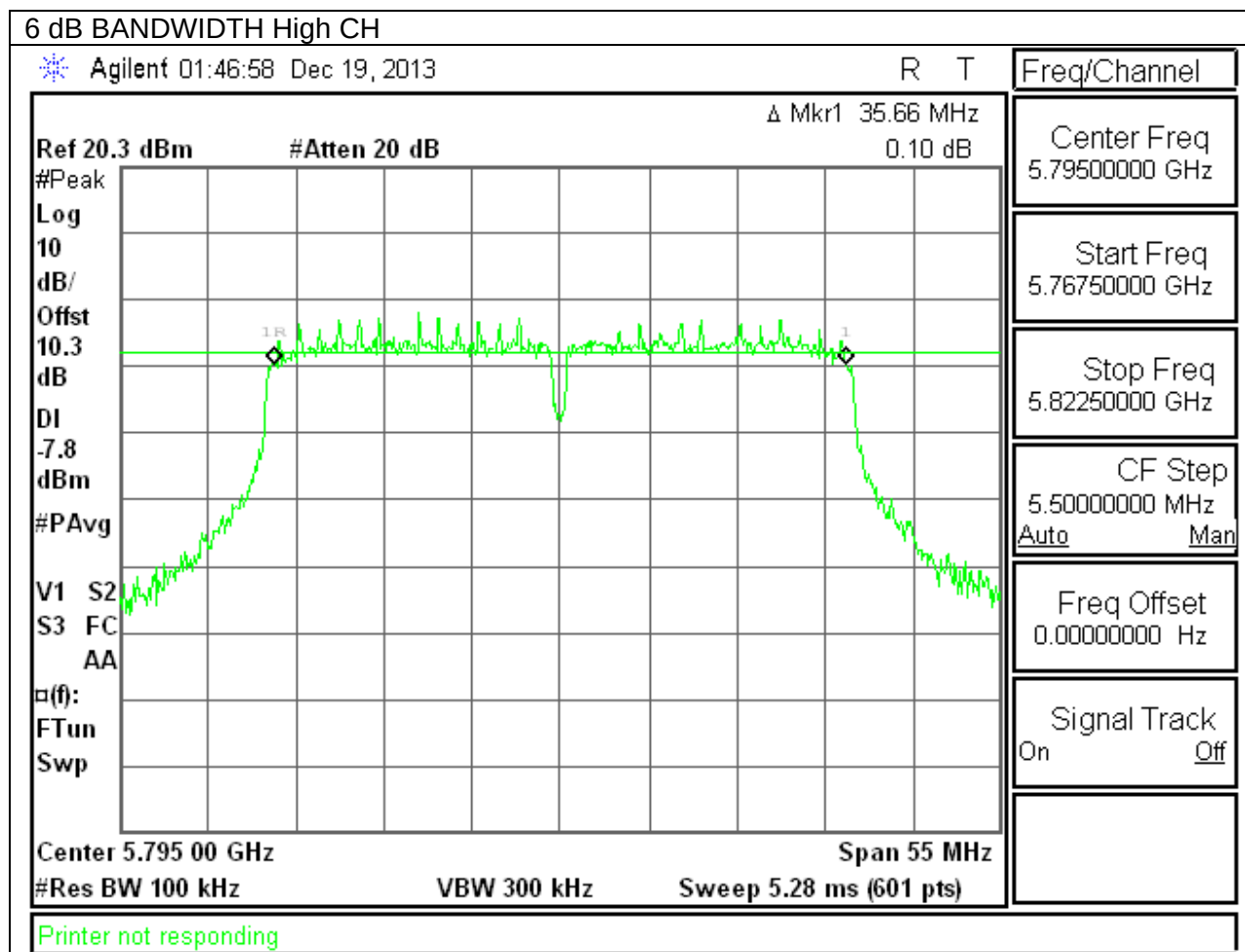
802.11a HT20 6 dB BANDWIDTH



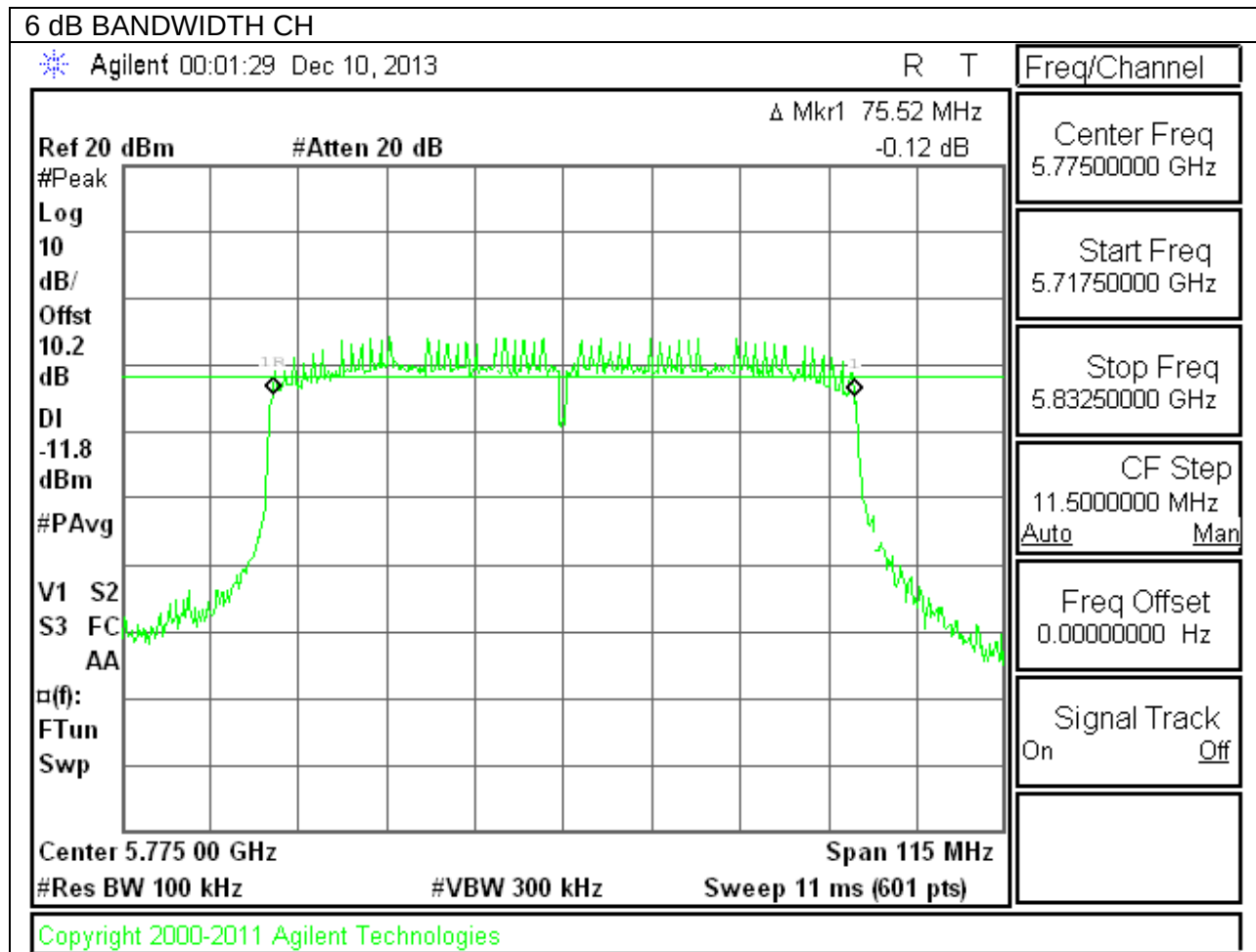
802.11n HT20 6 dB BANDWIDTH



802.11n HT40 6 dB BANDWIDTH



802.11ac HT80 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	13.51
Mid	2437	13.48
High	2462	13.47
Worst		13.51

9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.39
Mid	2437	16.54
High	2462	16.41
Worst		16.54

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.56
Mid	2437	17.56
High	2462	17.60
Worst		17.60

9.2.4. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	16.37
Mid	5785	16.35
High	5825	16.37
Worst		16.370

9.2.5. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	17.59
Mid	5785	17.57
High	5825	17.55
Worst		17.590

9.2.6. 802.11n HT40 MODE IN THE 5.8 GHz BAND

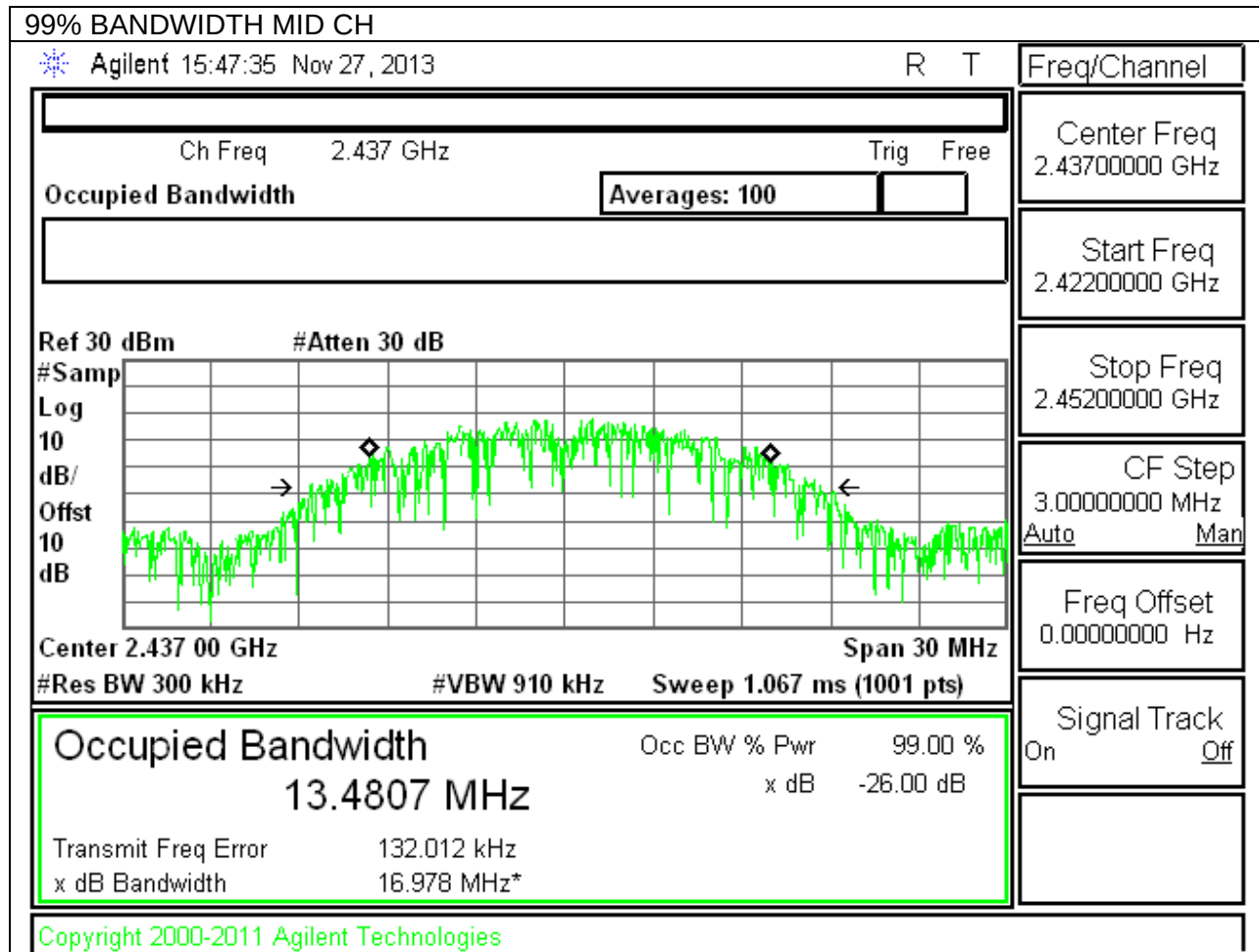
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	35.7
High	5795	35.6
Worst		35.7

9.2.7. 802.11ac HT 80 MODE IN THE 5.8 GHz BAND

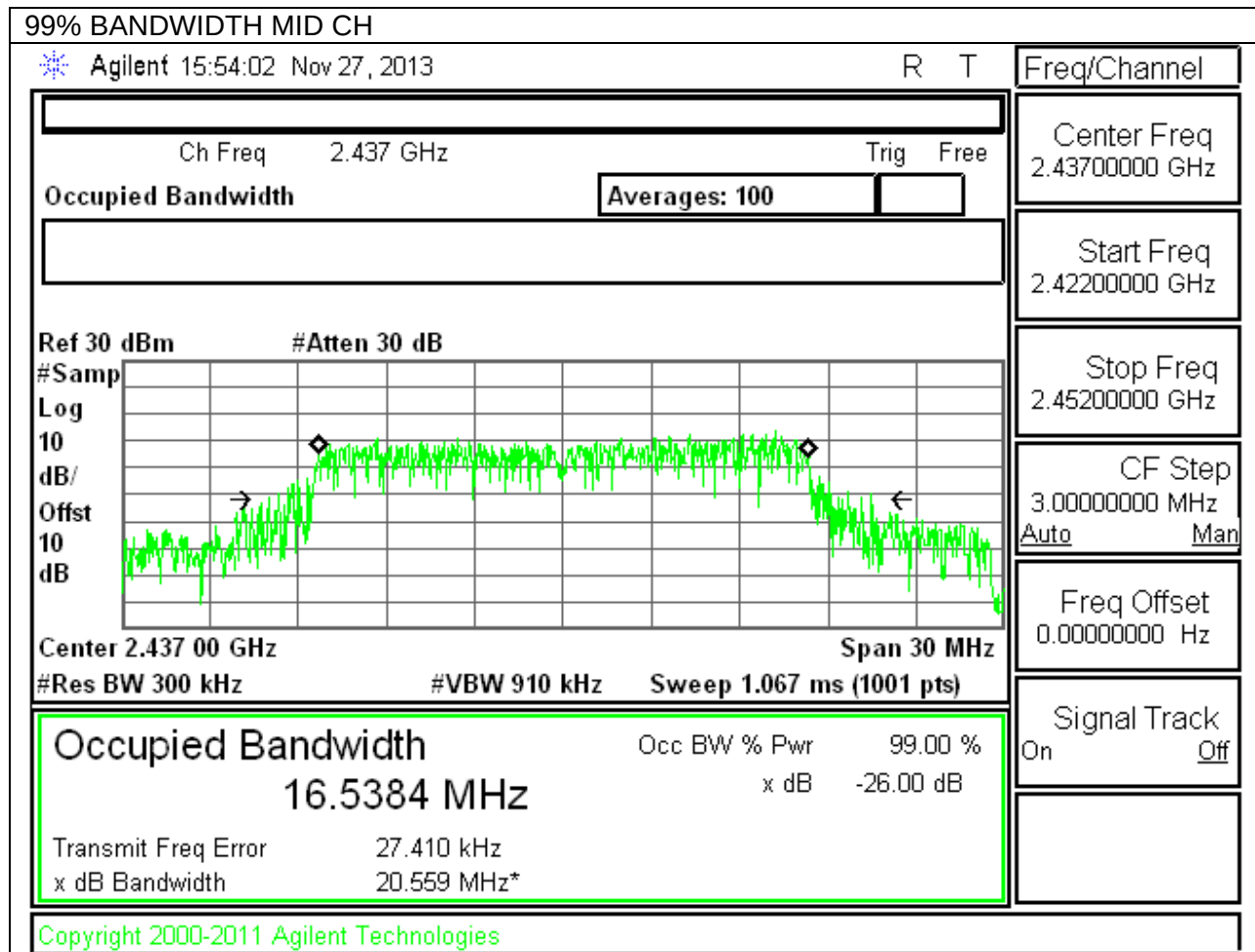
Channel	Frequency (MHz)	99% Bandwidth (MHz)
High	5775	74.5
Worst		74.5

2.4 GHz BAND

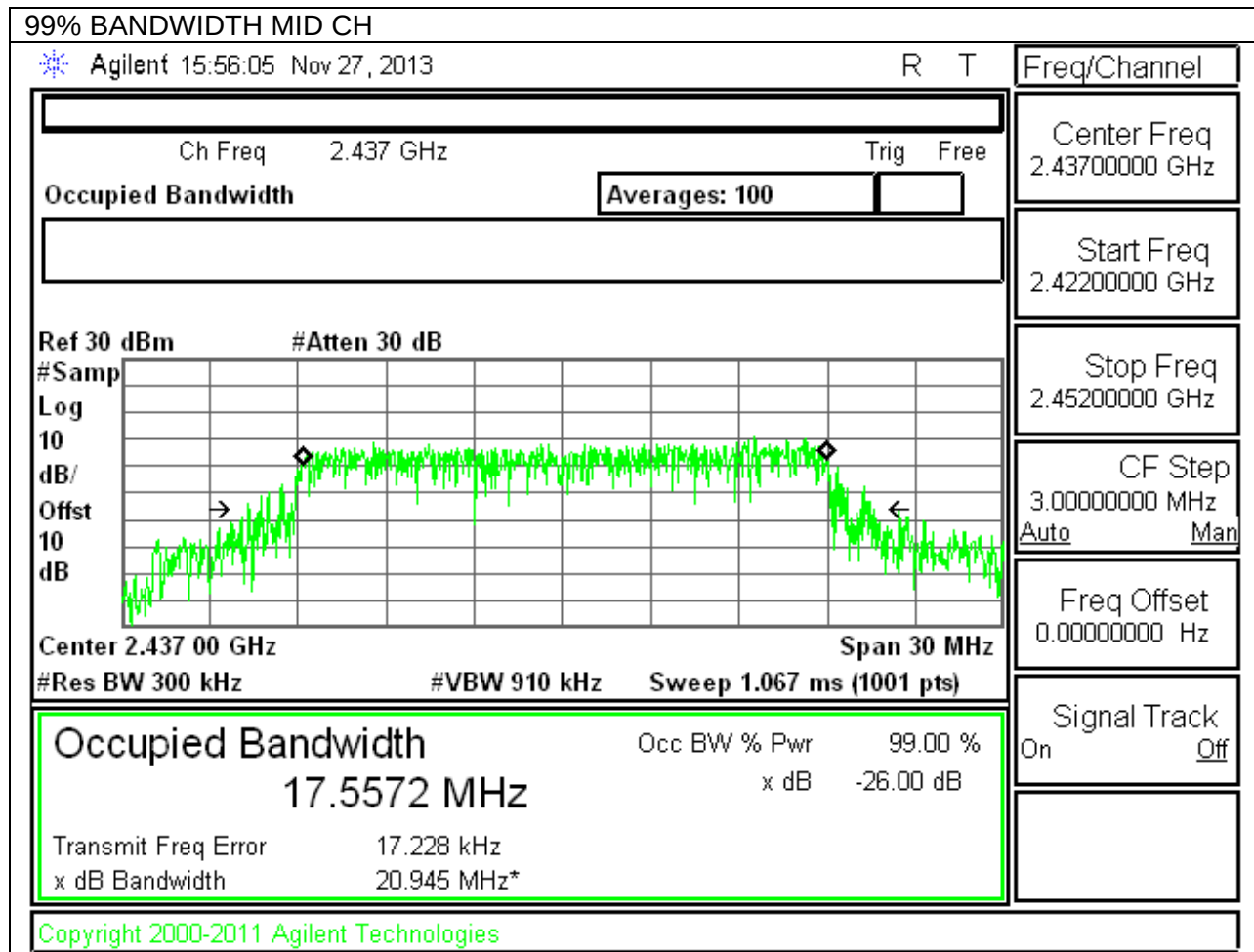
802.11b 99% BANDWIDTH



802.11g 99% BANDWIDTH

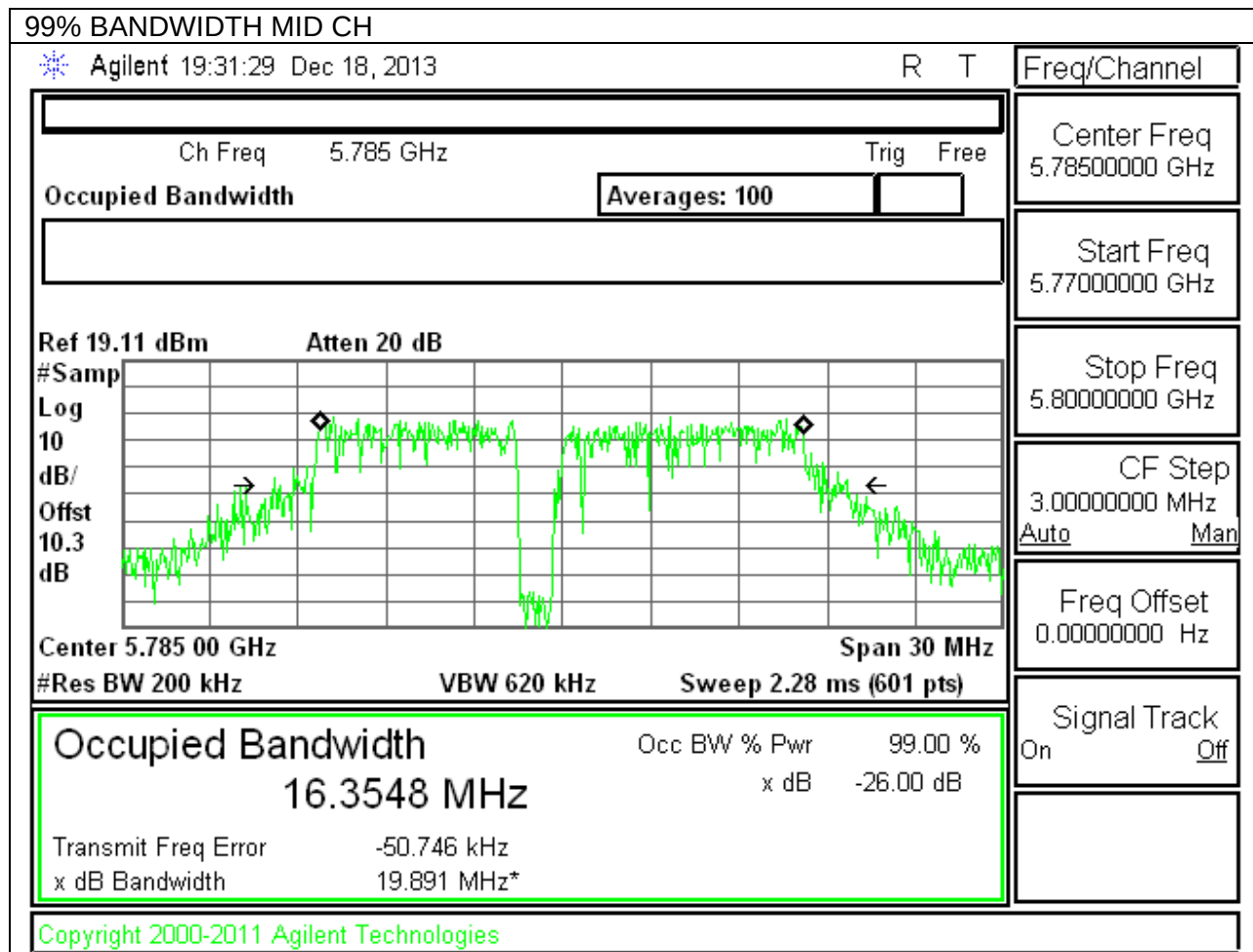


802.11n 99% BANDWIDTH

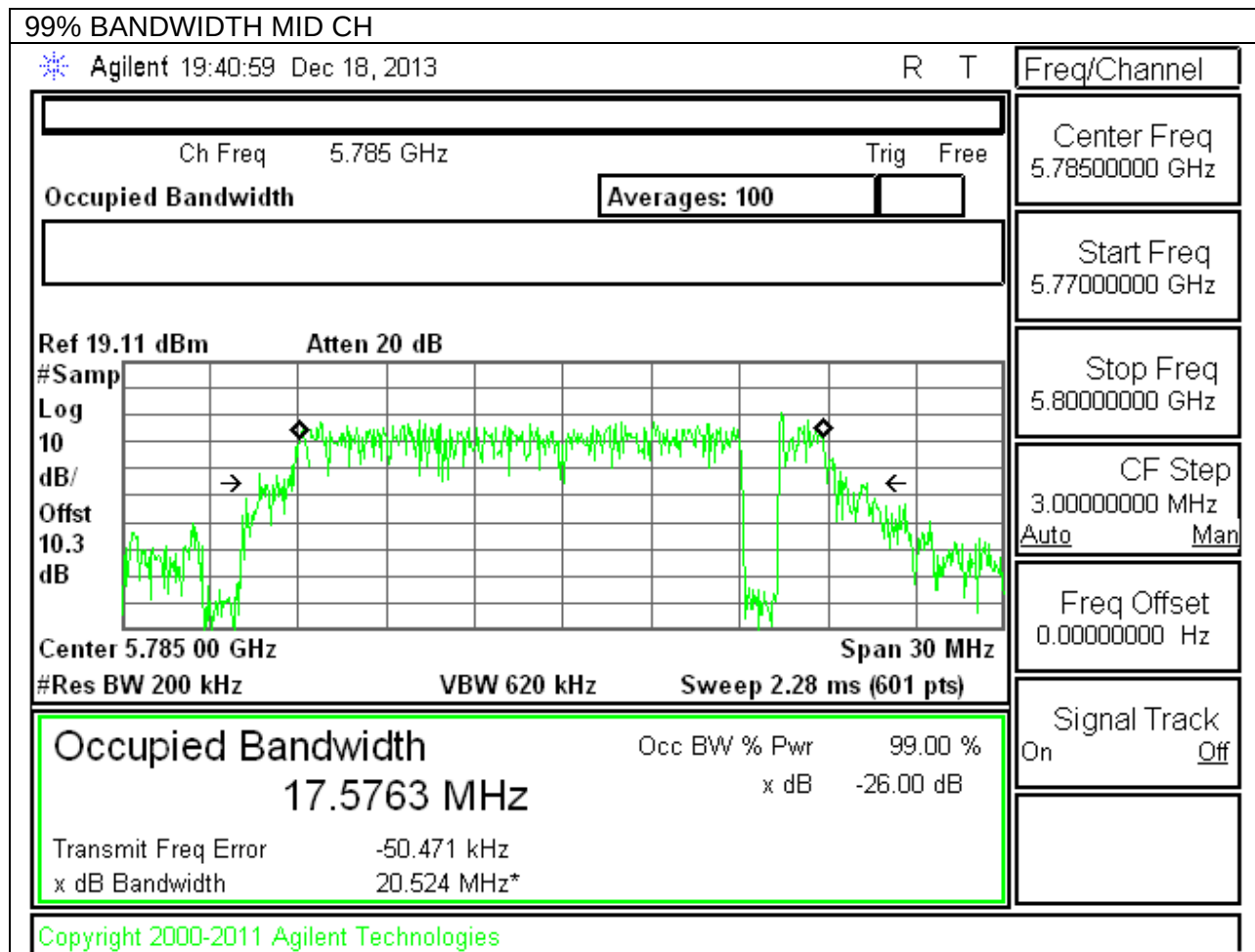


5.8 GHz BAND

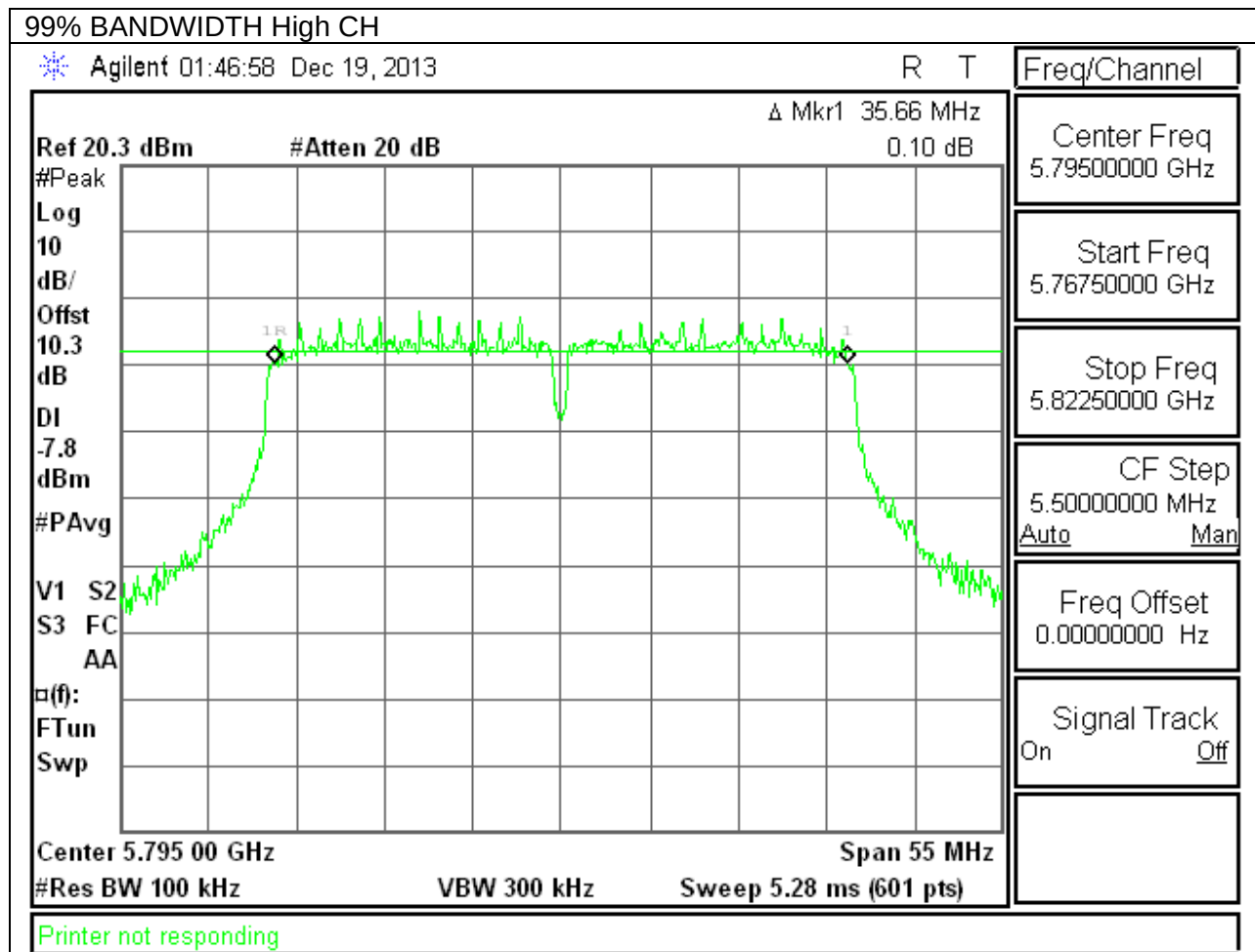
802.11a HT20 99% BANDWIDTH



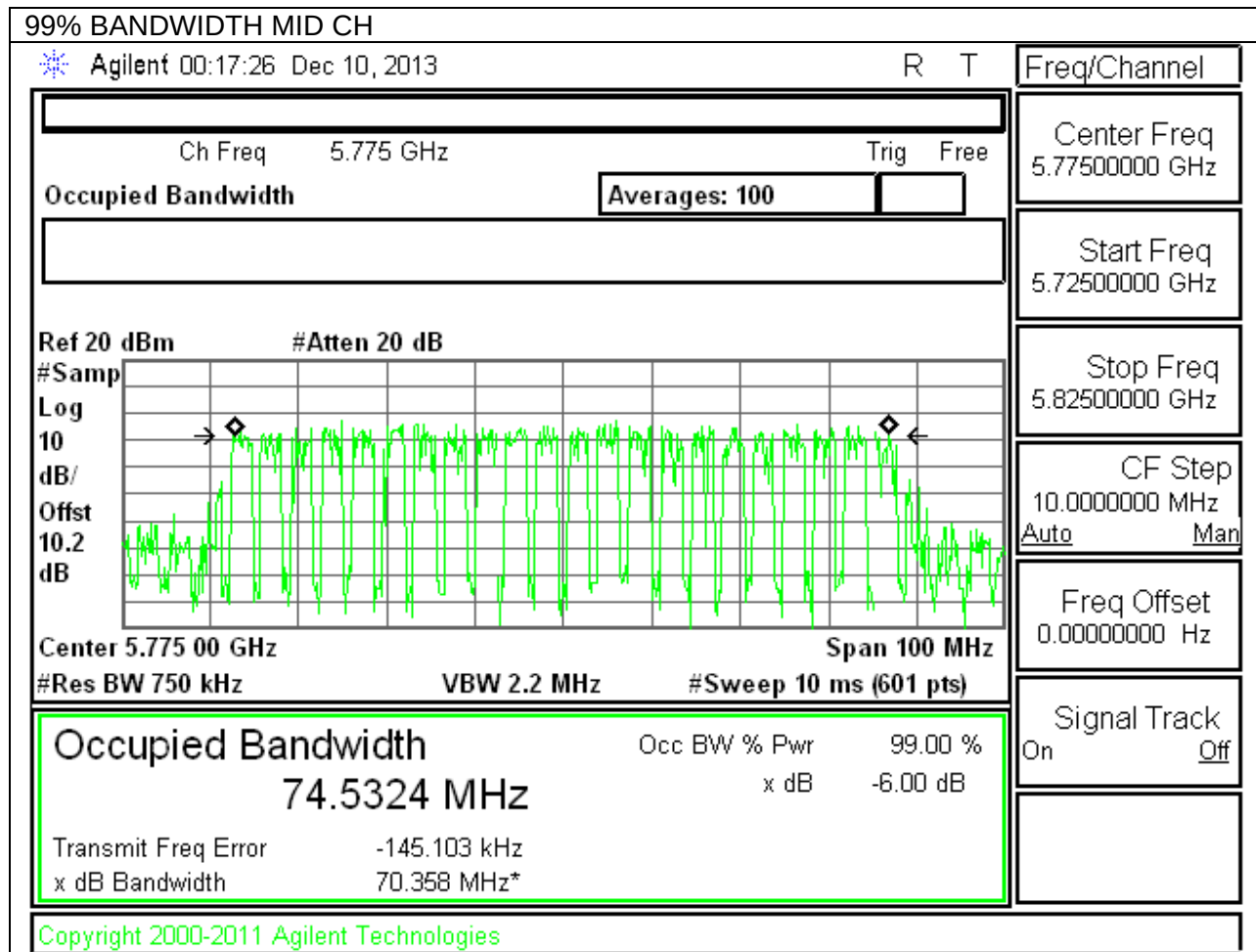
802.11n HT20 99% BANDWIDTH



802.11n HT40 99% BANDWIDTH



802.11ac HT80 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	17.20
Mid	2437	17.60
High	2462	17.30
Worst		17.600

9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	13.50
Mid	2437	13.60
High	2462	13.50
Worst		13.600

9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	12.30
Mid	2437	12.50
High	2462	12.60
Worst		12.600

9.3.4. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5745	11.50
Mid	5785	11.50
High	5825	11.70
Worst		11.700

9.3.5. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5745	11.70
Mid	5785	11.80
High	5825	11.70
Worst		11.800

9.3.6. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5755	12.5
High	5795	12.5
Worst		12.5

9.3.7. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
High	5775	9.1
Worst		9.1

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	-1.51	30.00	30	36	30.00
Mid	2437	-1.51	30.00	30	36	30.00
High	2462	-1.51	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	18.84	18.84	30.00	-11.16
Mid	2437	19.37	19.37	30.00	-10.63
High	2462	18.77	18.77	30.00	-11.23
Worst			19.37		

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	-1.51	30.00	30	36	30.00
Mid	2437	-1.51	30.00	30	36	30.00
High	2462	-1.51	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	20.74	20.74	30.00	-9.26
Mid	2437	21.09	21.09	30.00	-8.91
High	2462	20.93	20.93	30.00	-9.07
Worst			21.09		

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	-1.51	30.00	30	36	30.00
Mid	2437	-1.51	30.00	30	36	30.00
High	2462	-1.51	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	20.02	20.02	30.00	-9.98
Mid	2437	20.15	20.15	30.00	-9.85
High	2462	19.99	19.99	30.00	-10.01
Worst			20.15		

9.4.4. 802.11a MODE IN THE 5.8 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	5745	-0.09	30.00	30	36	30.00
Mid	5785	-0.09	30.00	30	36	30.00
High	5825	-0.09	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	5745	17.88	17.88	30.00	-12.12
Mid	5785	17.62	17.62	30.00	-12.38
High	5825	17.61	17.61	30.00	-12.39
Worst			17.88		

9.4.5. 802.11n HT20 MODE IN THE 5.8 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	5745	-0.09	30.00	30	36	30.00
Mid	5785	-0.09	30.00	30	36	30.00
High	5825	-0.09	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	5745	17.71	17.71	30.00	-12.29
Mid	5785	17.95	17.95	30.00	-12.05
High	5825	17.81	17.81	30.00	-12.19
Worst			17.95		

9.4.6. 802.11n HT40 MODE IN THE 5.8 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	5755	-0.09	30.00	30	36	30.00
High	5795	-0.09	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	5755	18.95	18.95	30.00	-11.05
High	5795	19.38	19.38	30.00	-10.62
Worst			19.38		

9.4.7. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Limits

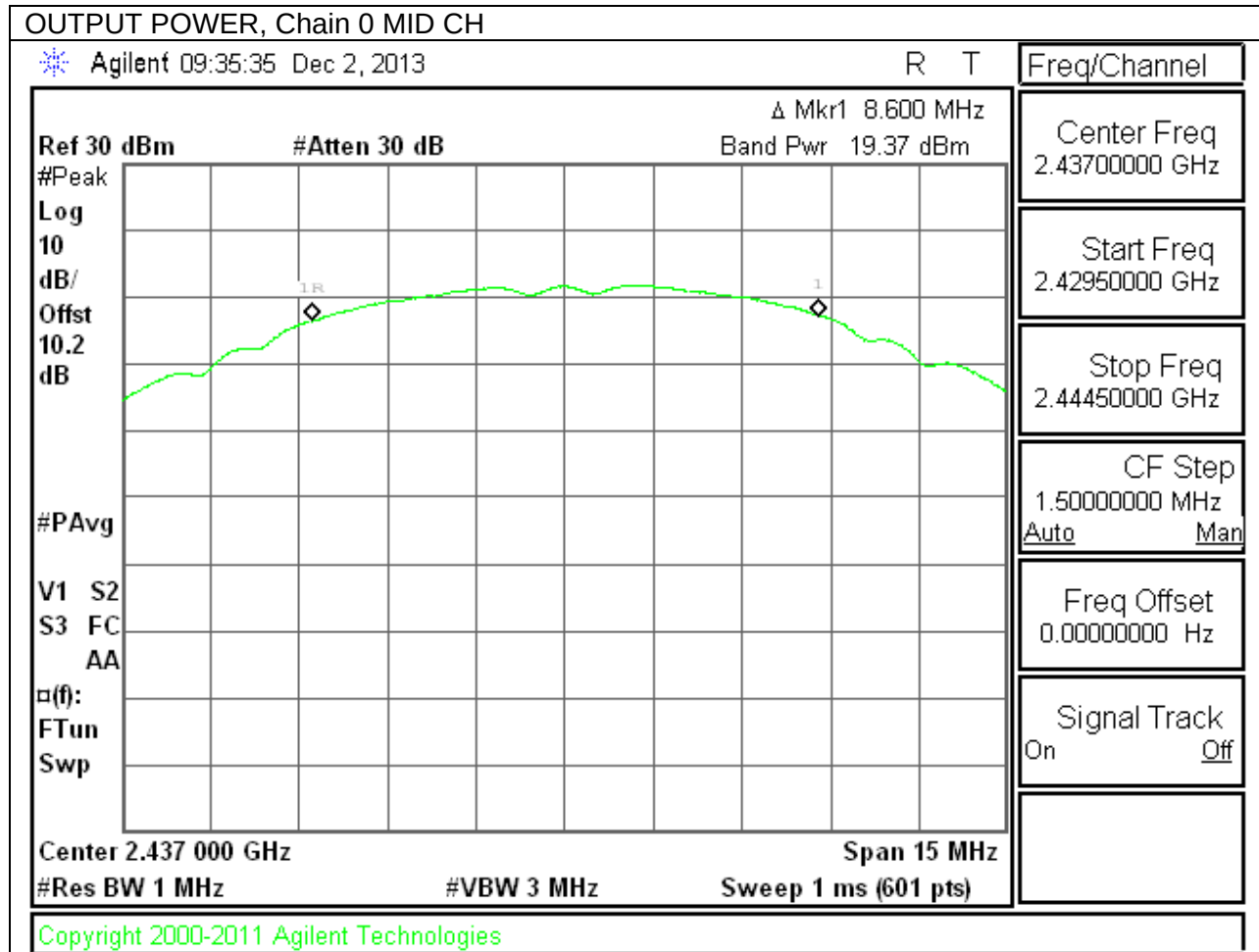
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
High	5775	-0.09	30.00	30	36	30.00

Results

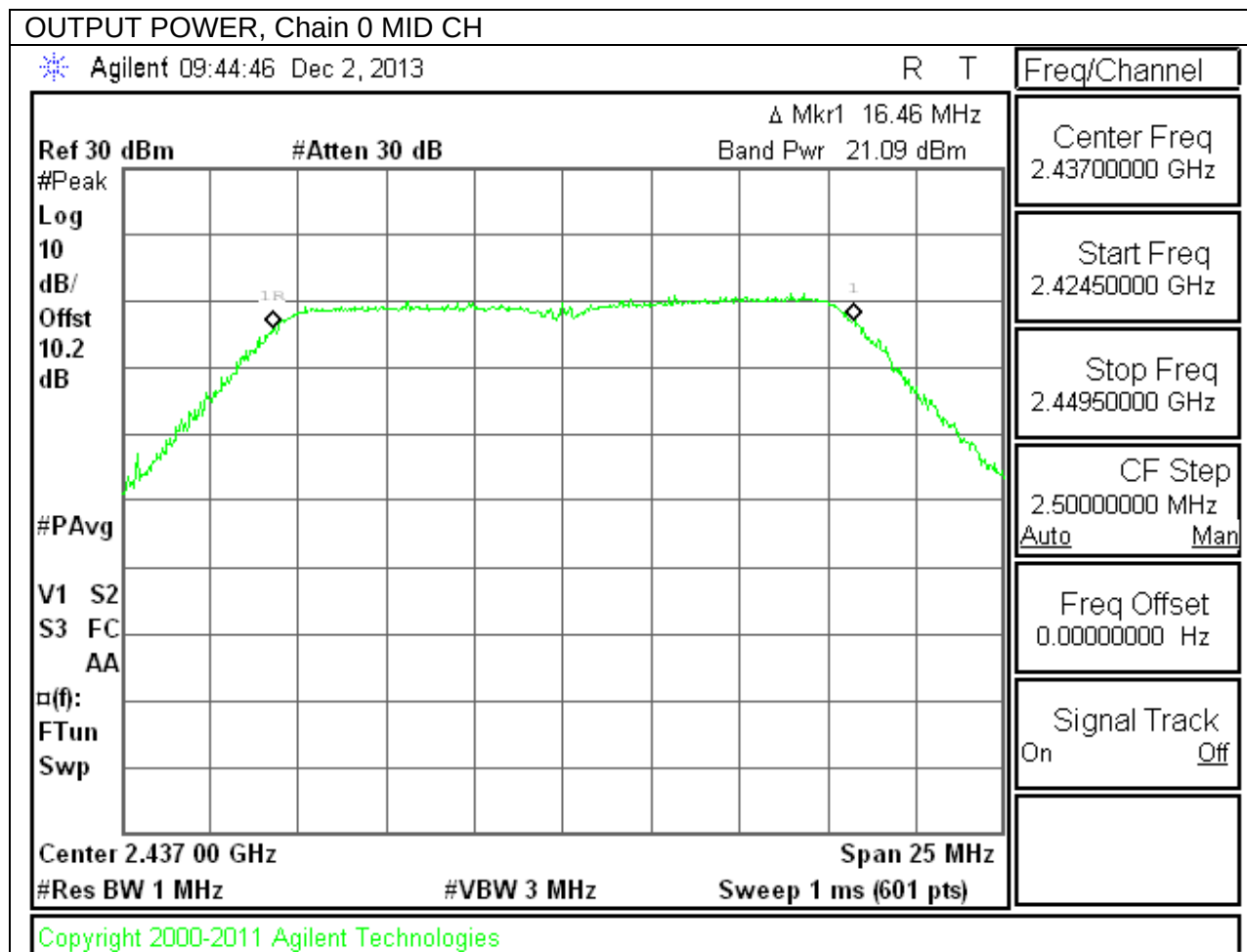
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High	5775	18.11	18.11	30.00	-11.89
Worst			18.11		

2.4 GHz BAND

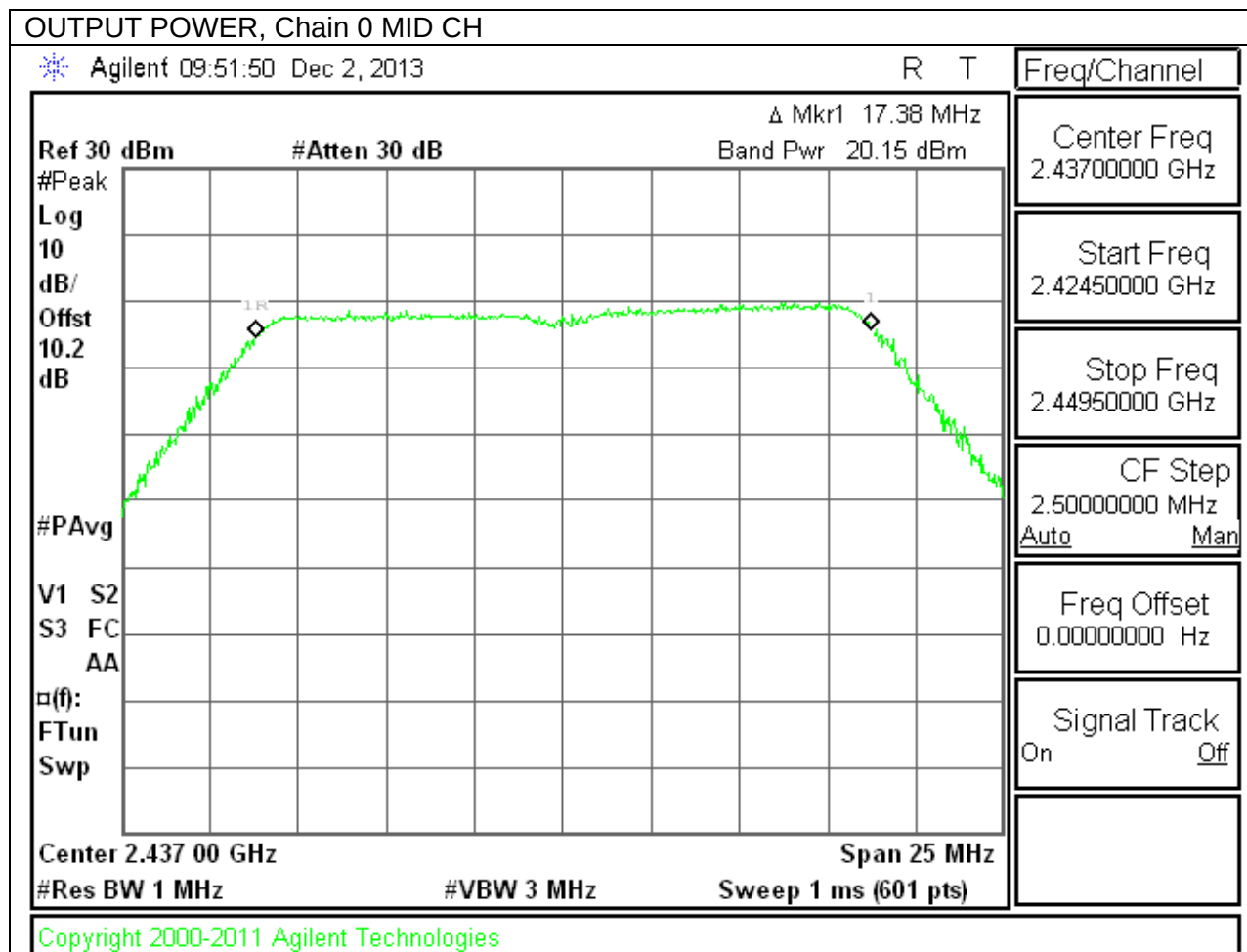
802.11b OUTPUT POWER, Chain 0



802.11g OUTPUT POWER, Chain 0

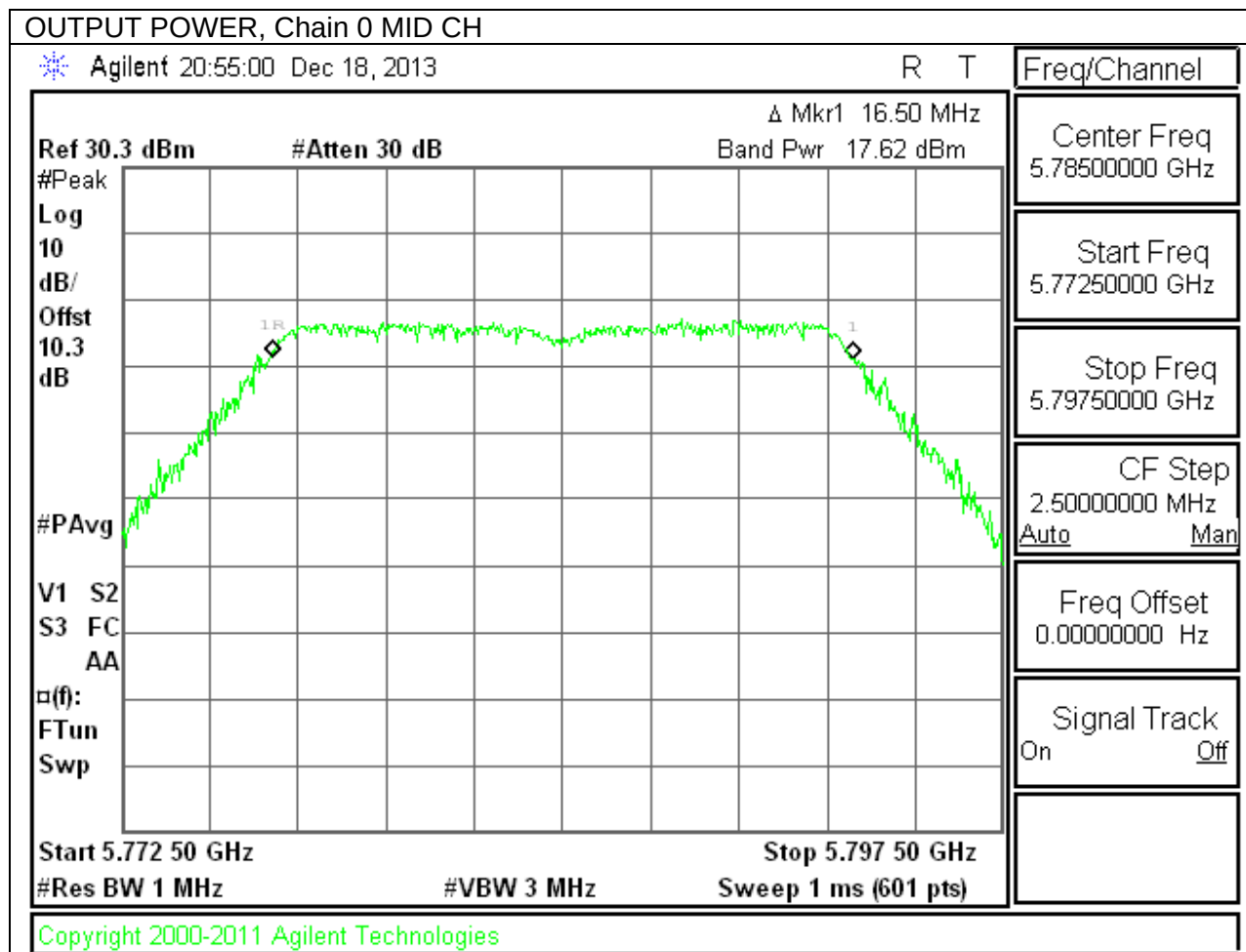


802.11n OUTPUT POWER, Chain 0

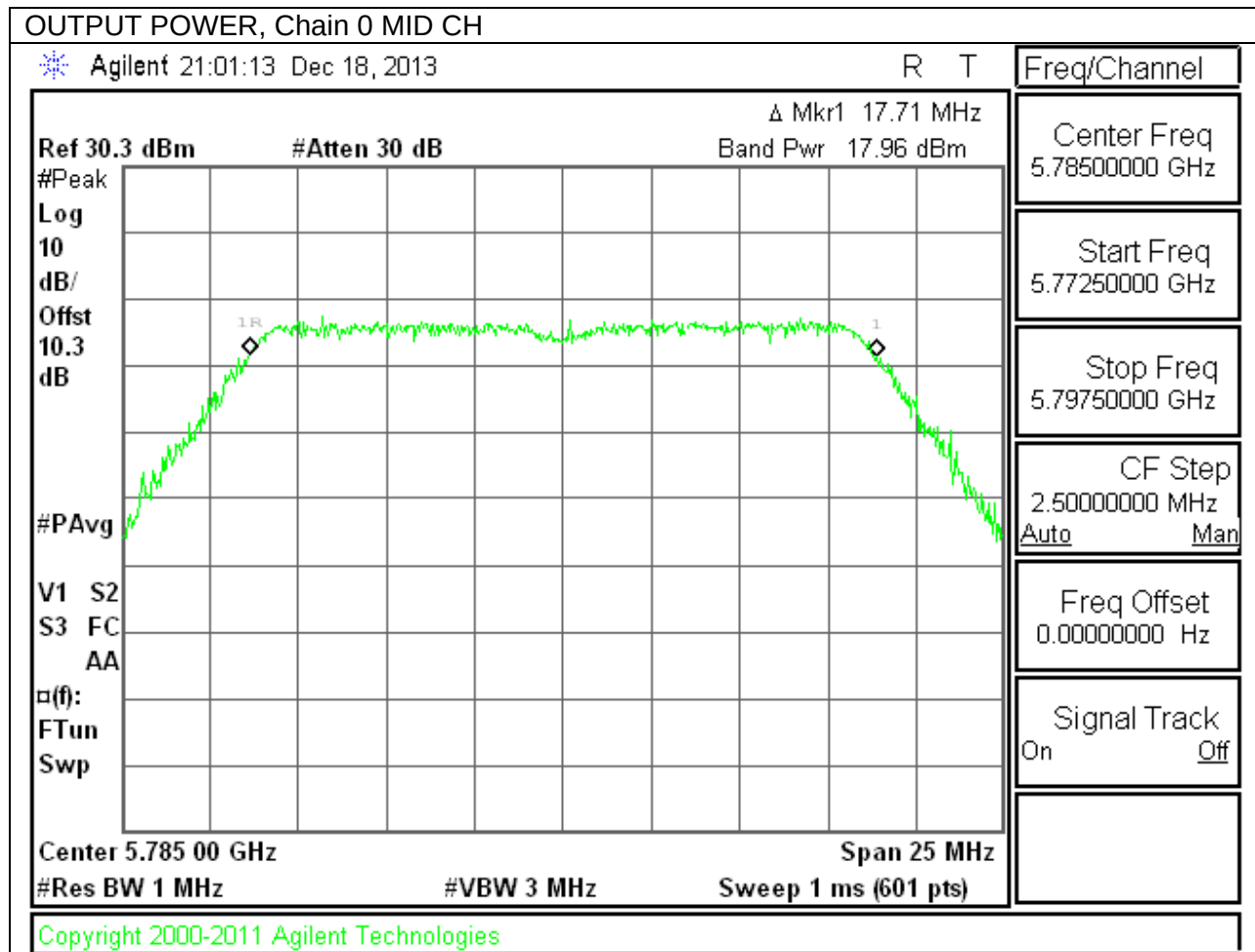


5.8 GHz BAND

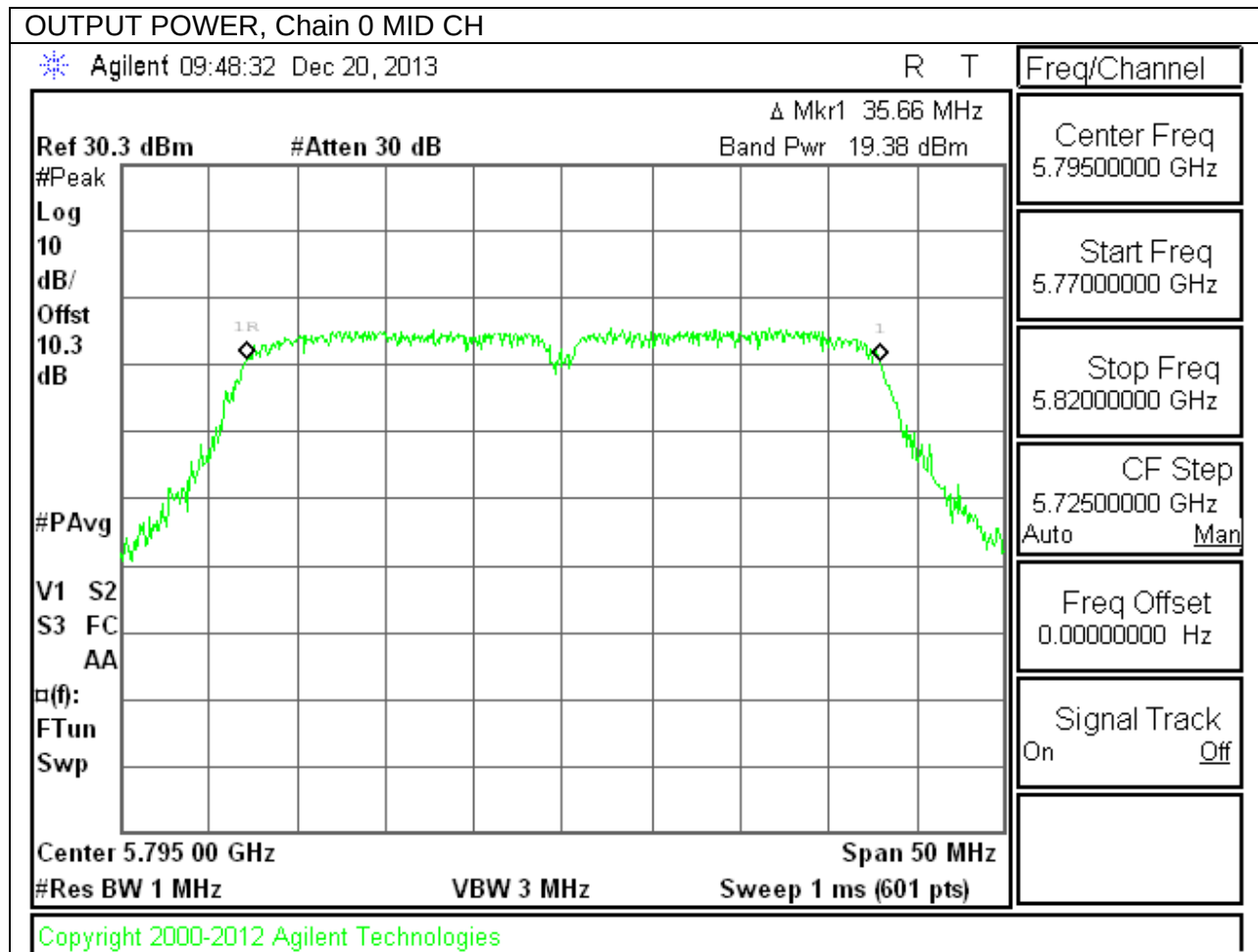
802.11a HT20 OUTPUT POWER, Chain 0



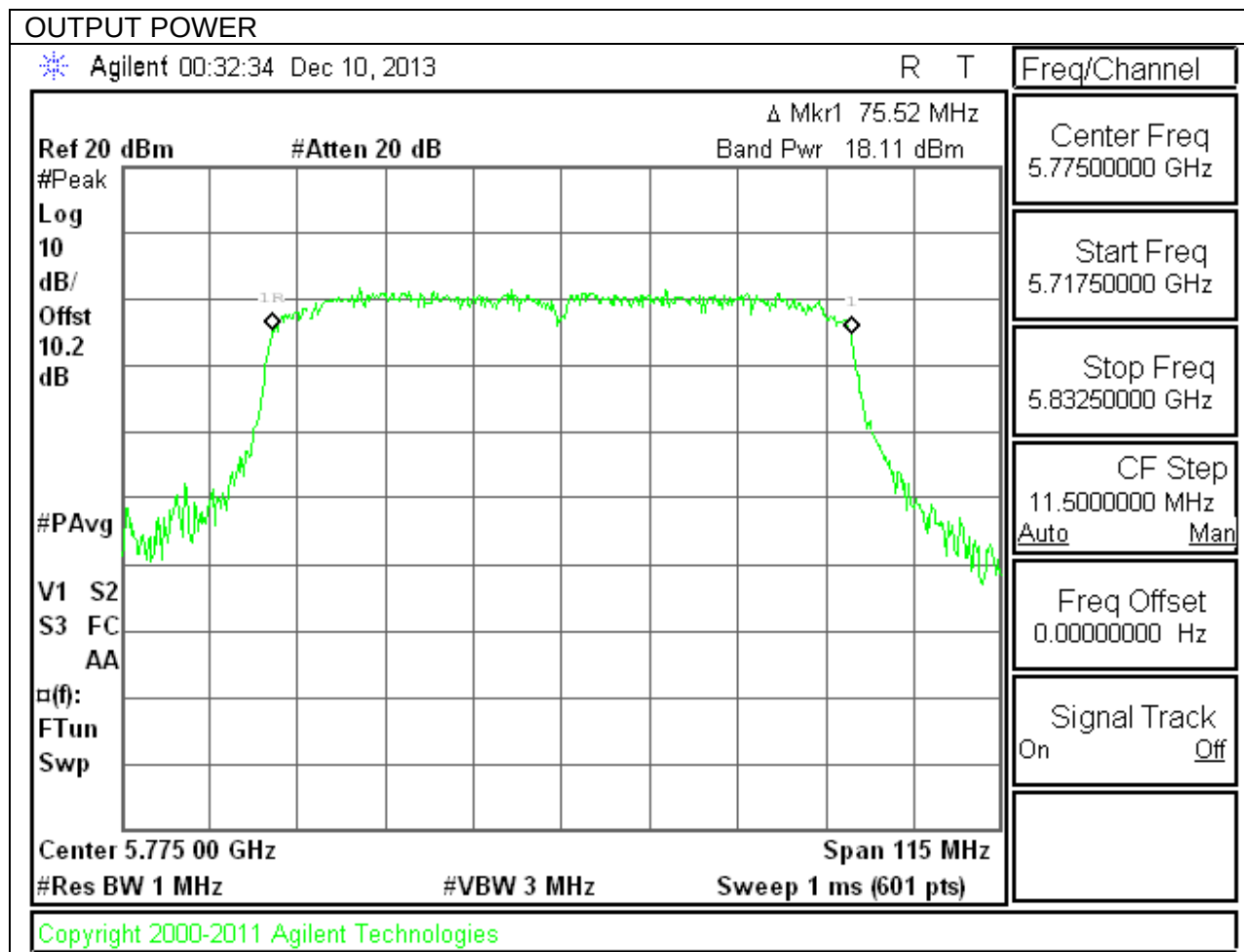
802.11n HT20 OUTPUT POWER, Chain 0



802.11n HT 40 OUTPUT POWER, Chain 0



802.11ac HT 80 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	-5.55	8.0	-13.6
Mid	2437	-6.11	8.0	-14.1
High	2462	-6.33	8.0	-14.3

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	-12.07	8.0	-20.1
Mid	2437	-10.64	8.0	-18.6
High	2462	-11.24	8.0	-19.2

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	-12.85	8.0	-20.9
Mid	2437	-11.25	8.0	-19.3
High	2462	-11.22	8.0	-19.2

9.5.4. 802.11a MODE IN THE 5.8 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	5745	-14.50	8.0	-22.5
Mid	5785	-14.69	8.0	-22.7
High	5825	-15.85	8.0	-23.9

9.5.5. 802.11n HT20 MODE IN THE 5.8 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	5745	-14.56	8.0	-22.6
Mid	5785	-16.71	8.0	-24.7
High	5825	-14.78	8.0	-22.8

9.5.6. 802.11n HT40 MODE IN THE 5.8 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	5755	-17.57	8.0	-25.6
High	5895	-15.85	8.0	-23.9

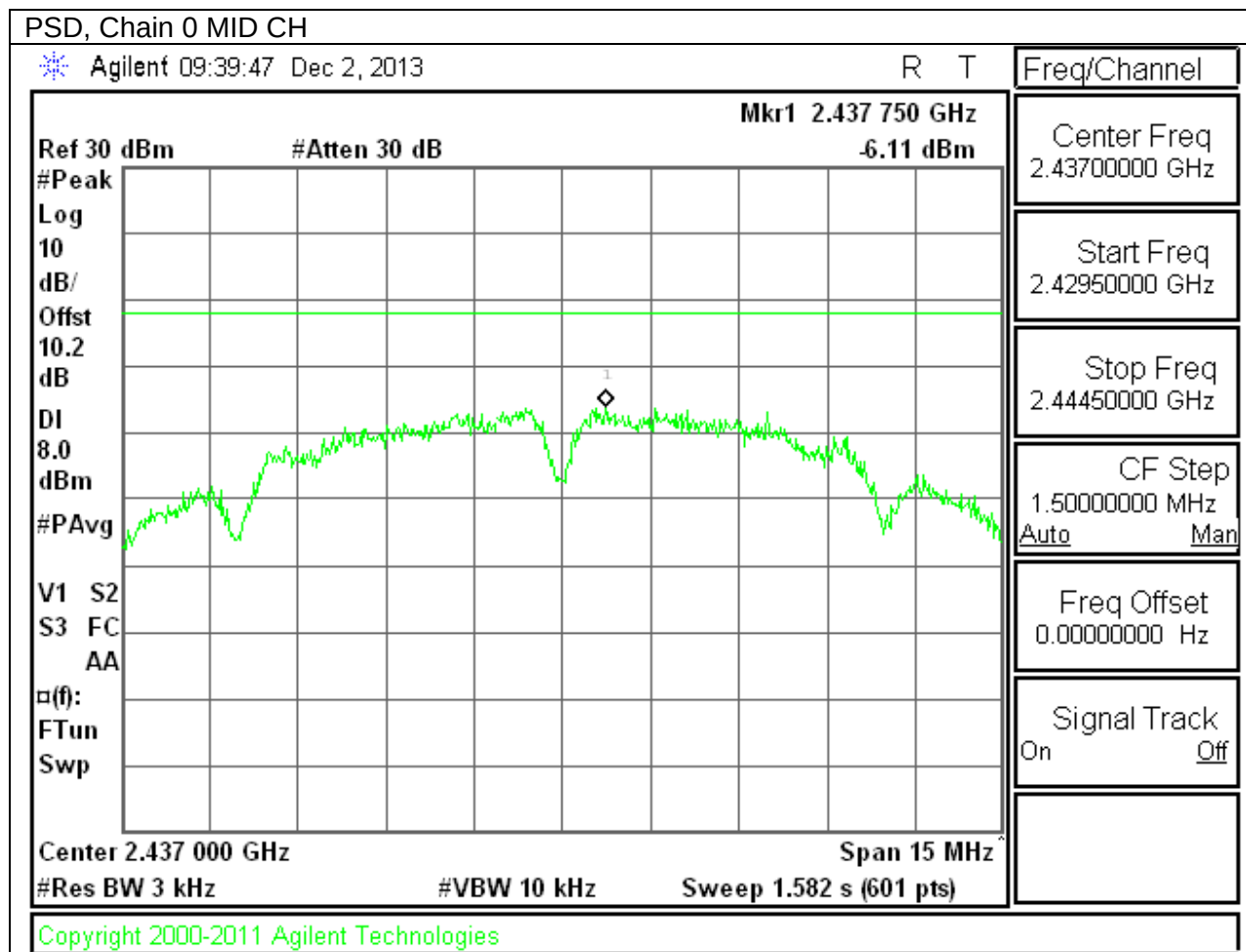
9.5.7. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

PSD Results

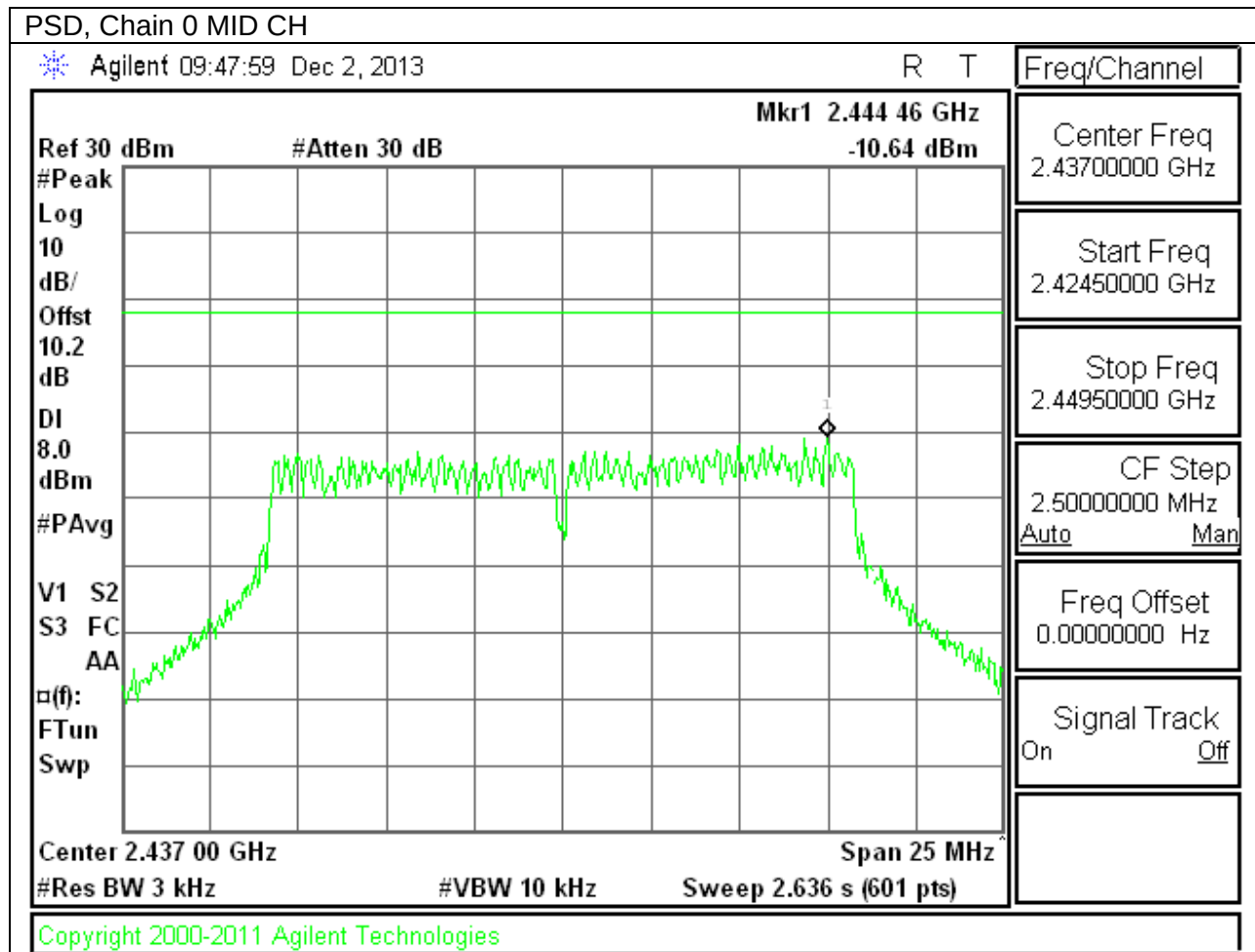
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
High	5775	-18.08	8.0	-26.1

2.4 GHz BAND

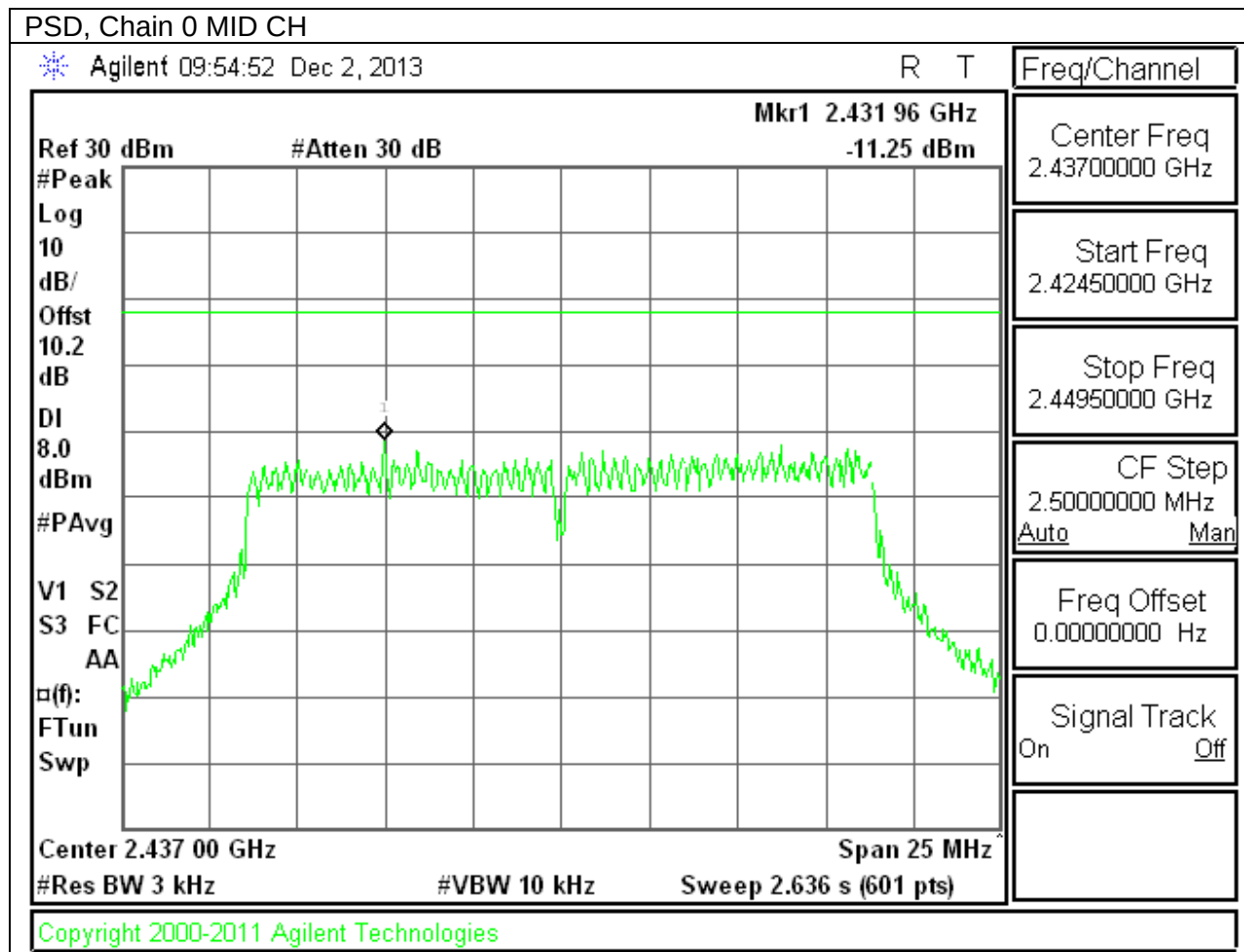
802.11b PSD, Chain 0



802.11g PSD, Chain 0

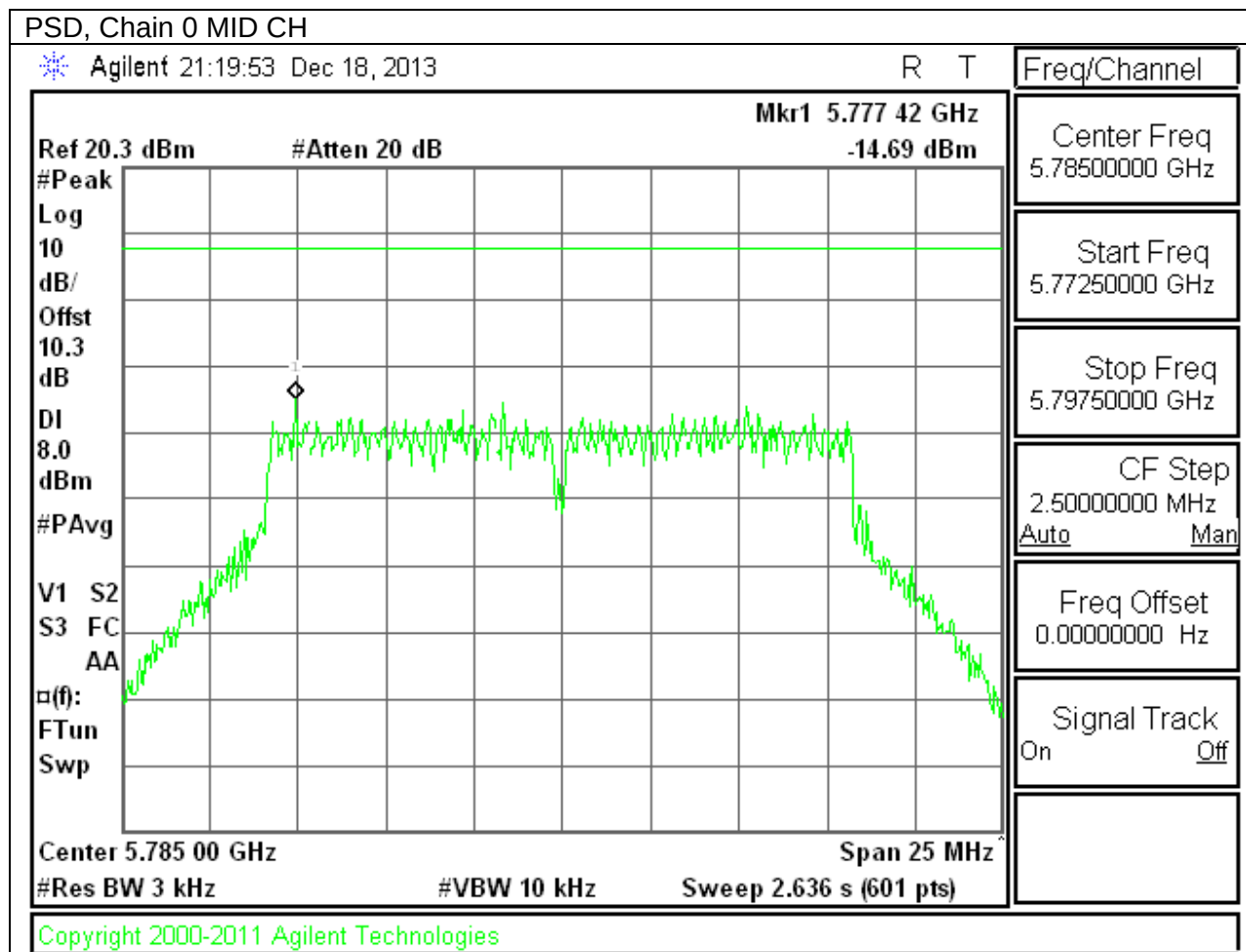


802.11n PSD, Chain 0

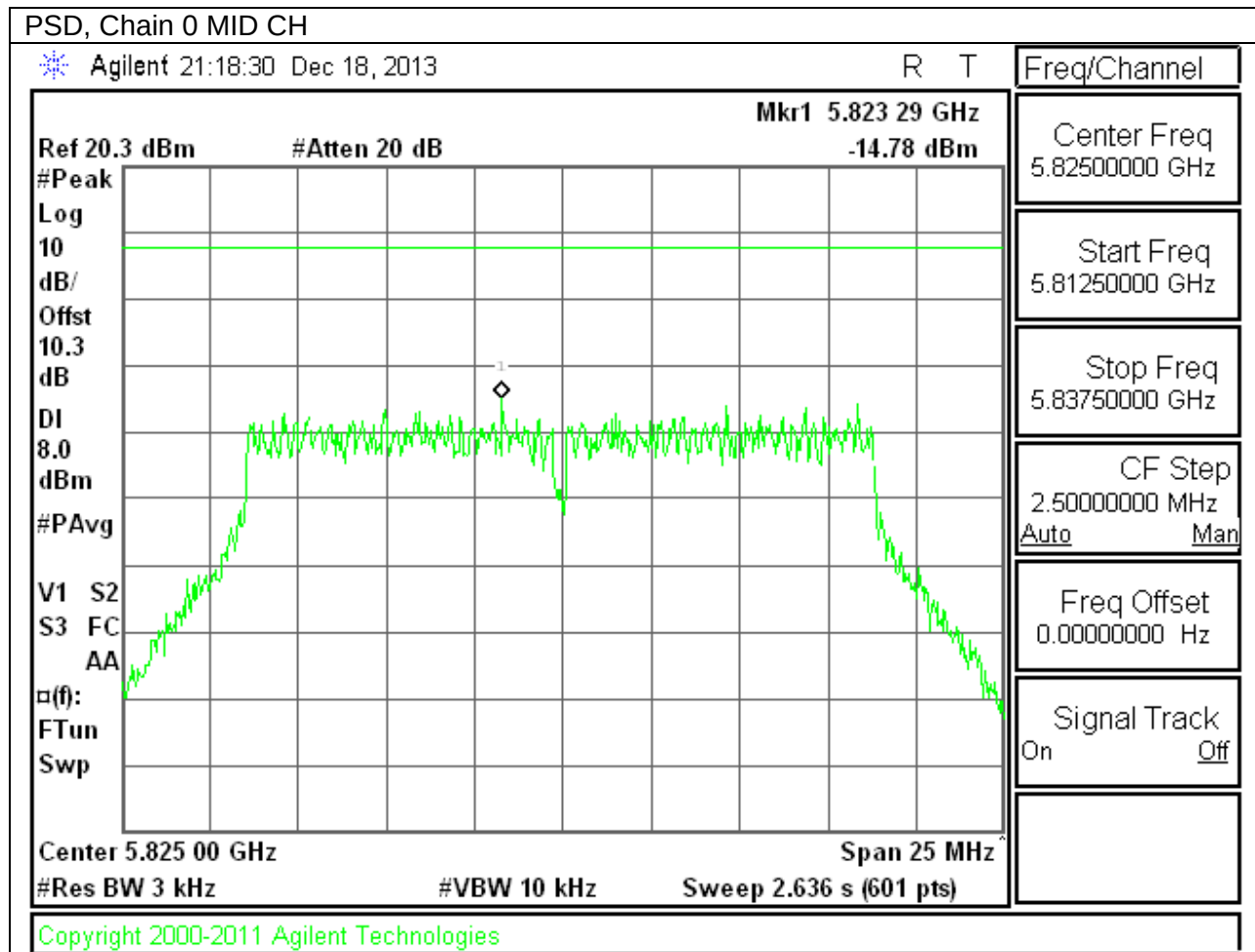


5.8 GHz BAND

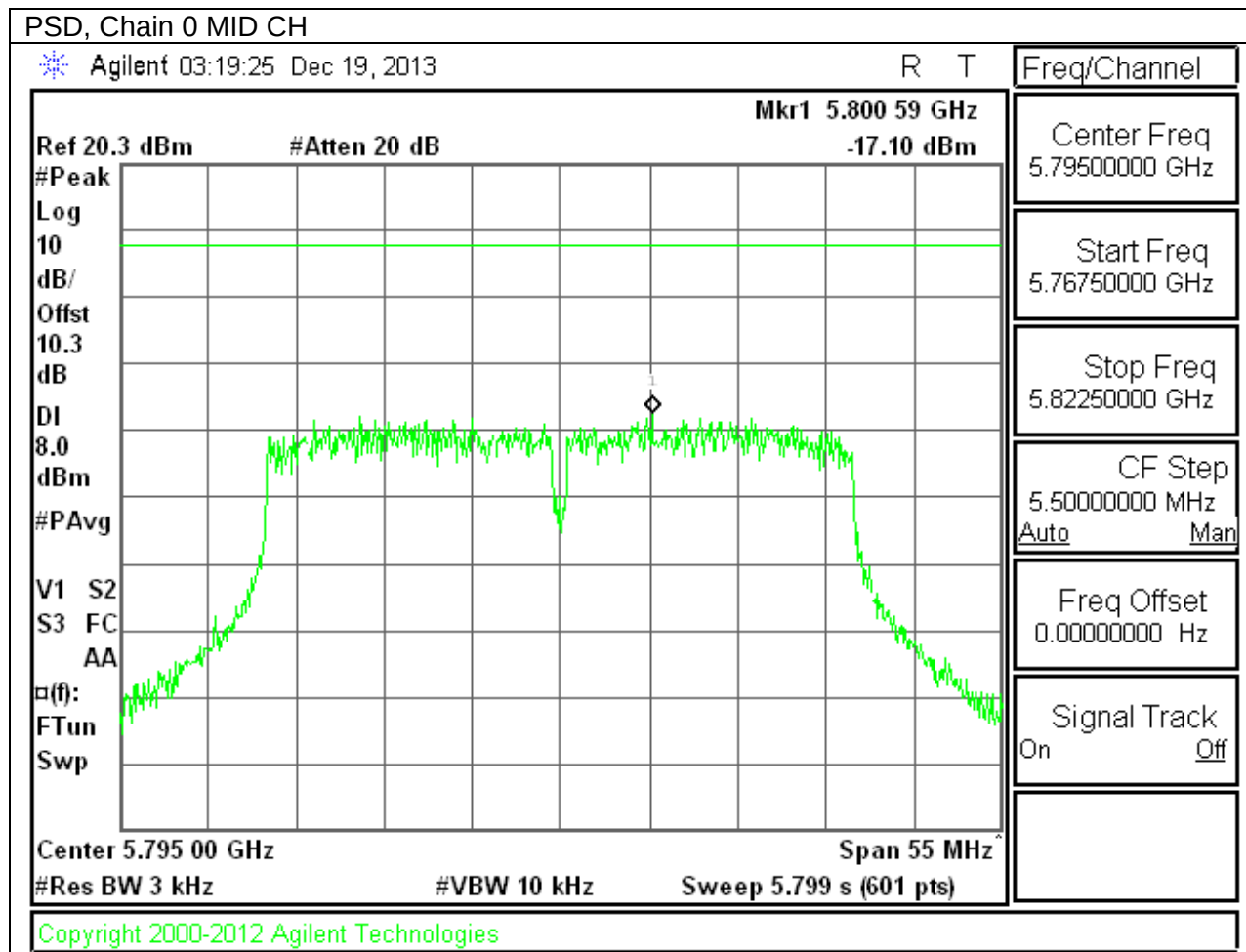
802.11a HT20 PSD, Chain 0



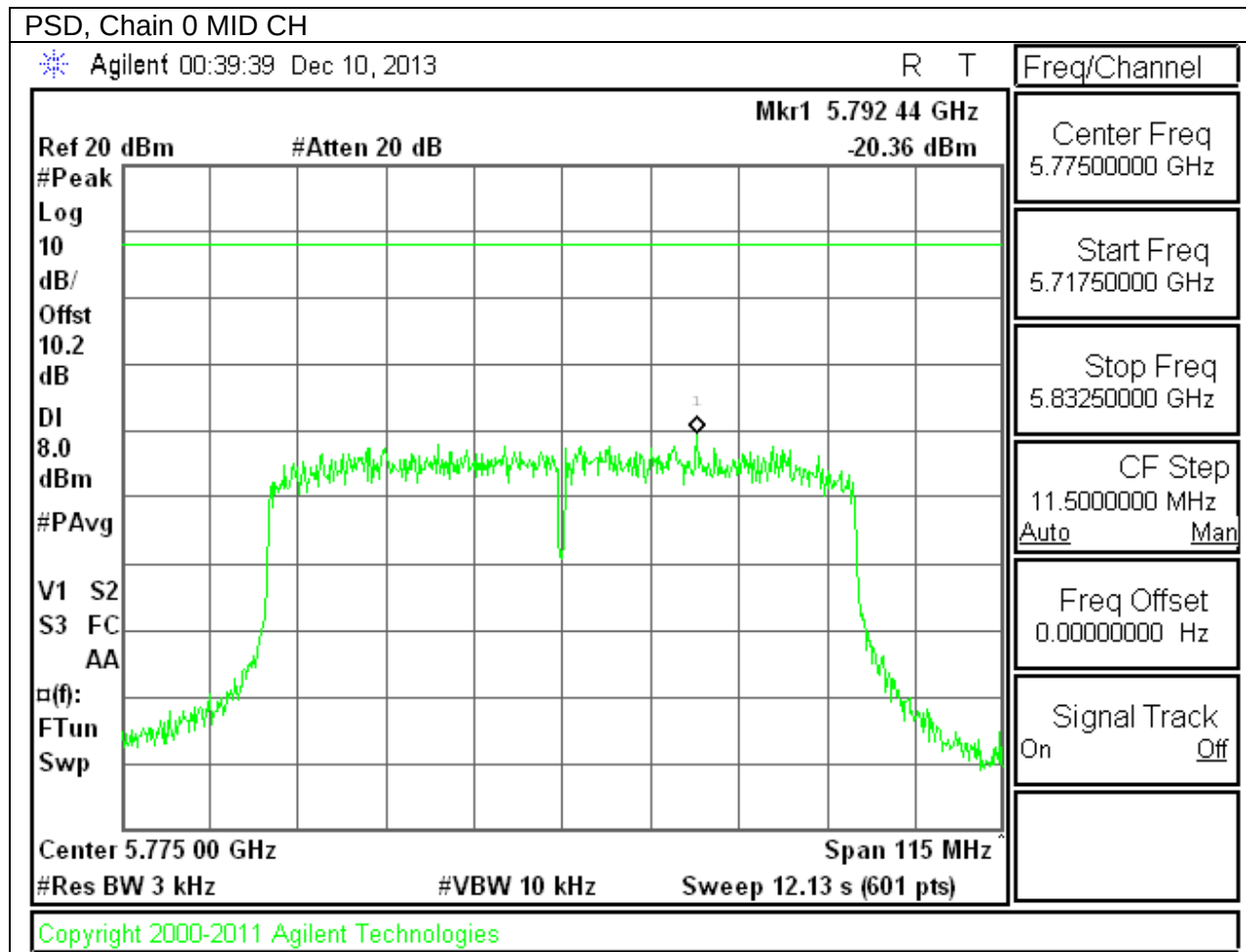
802.11n HT 20 PSD, Chain 0



802.11n HT40 PSD, Chain 0



802.11ac HT80 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.

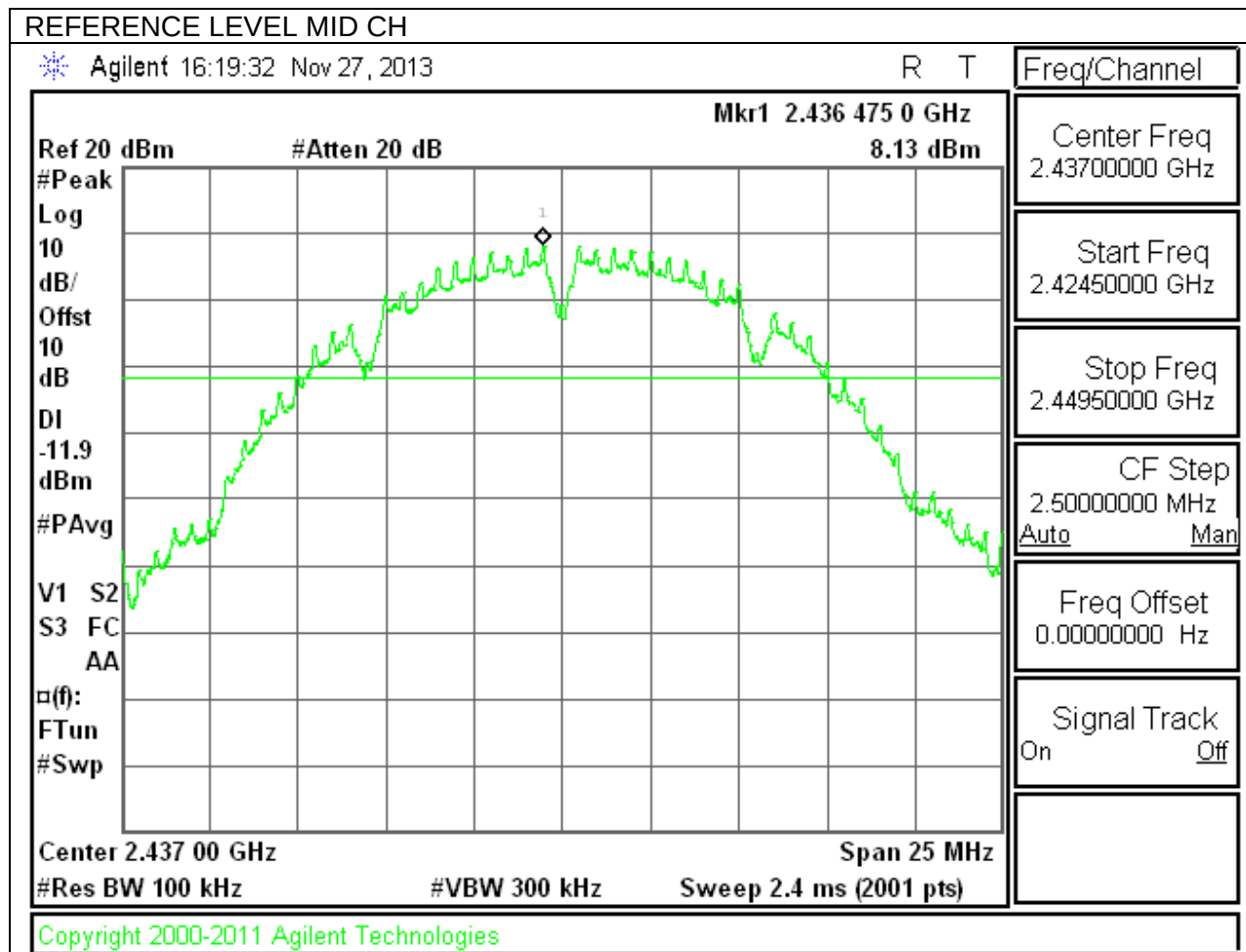
TEST PROCEDURE

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.

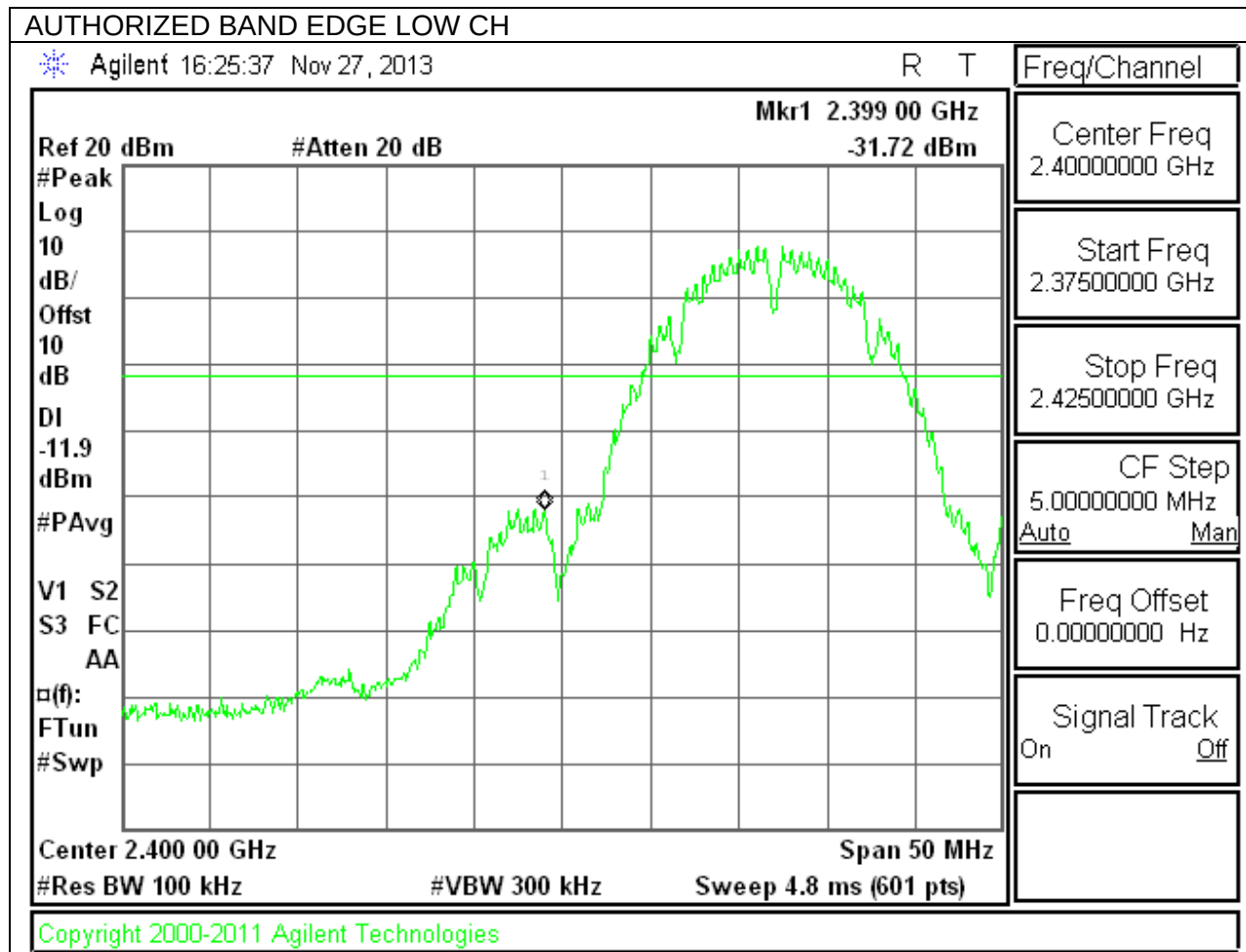
RESULTS

9.6.1. 802.11b MODE IN THE 2.4 GHZ BAND

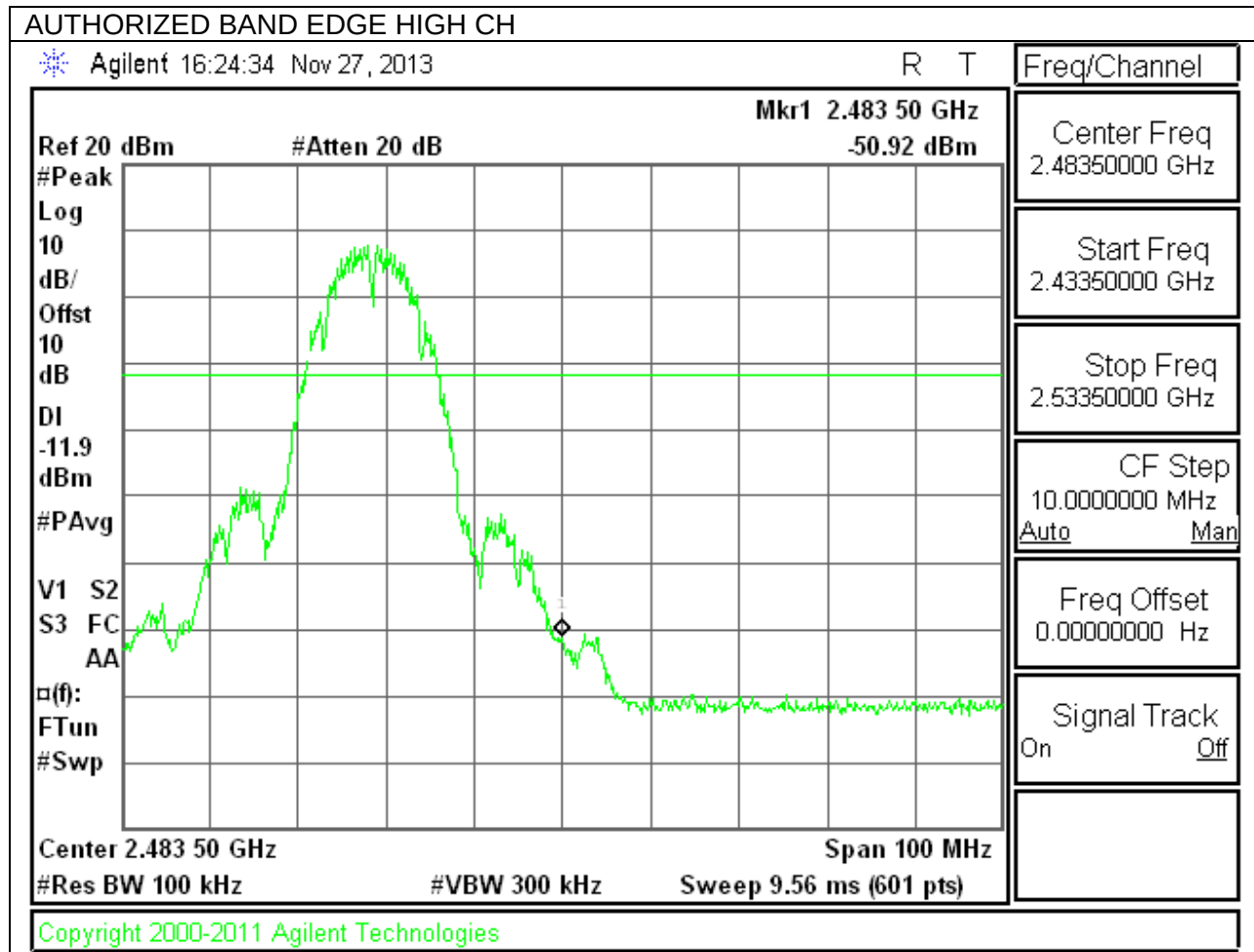
IN-BAND REFERENCE LEVEL



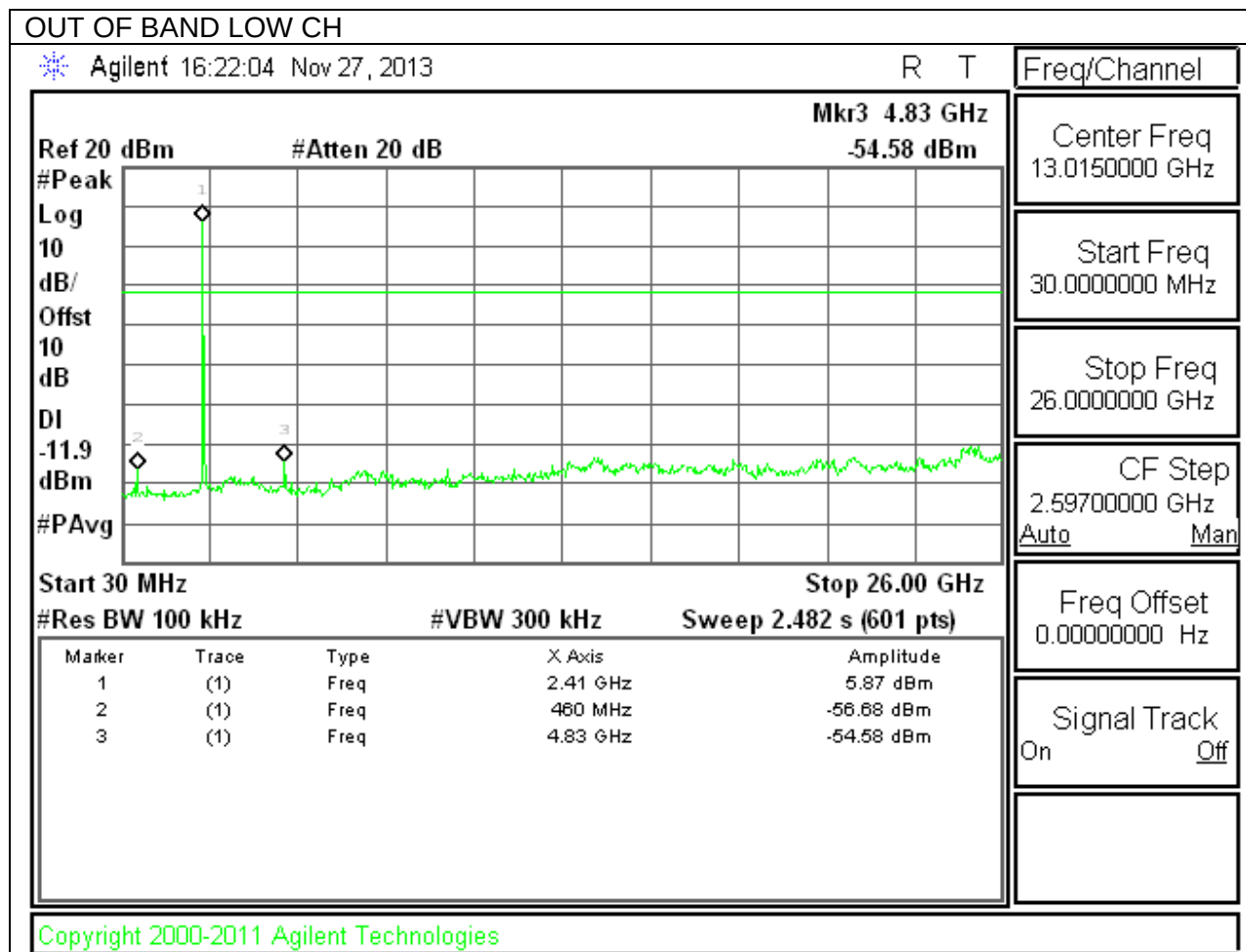
LOW CHANNEL BANDEDGE

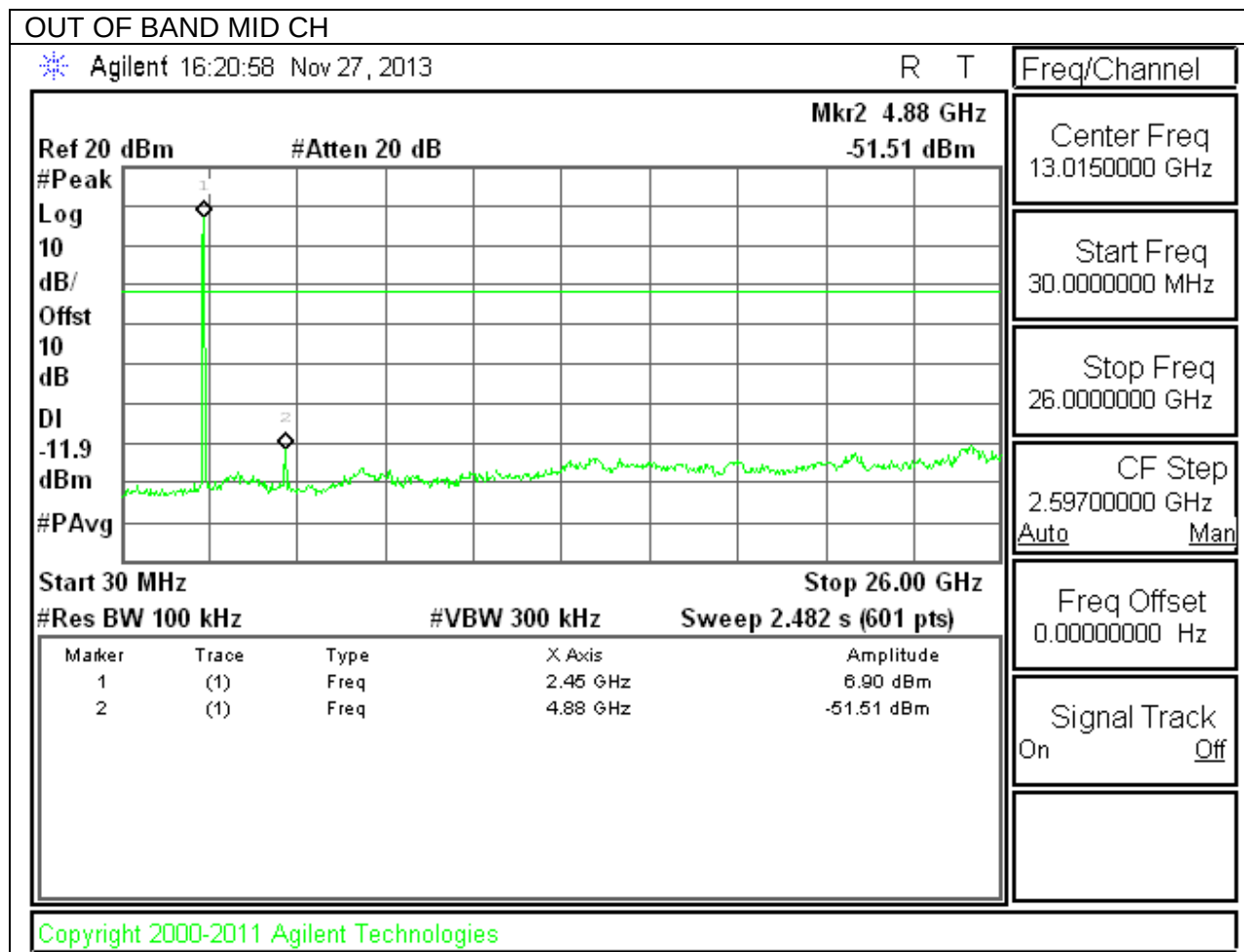


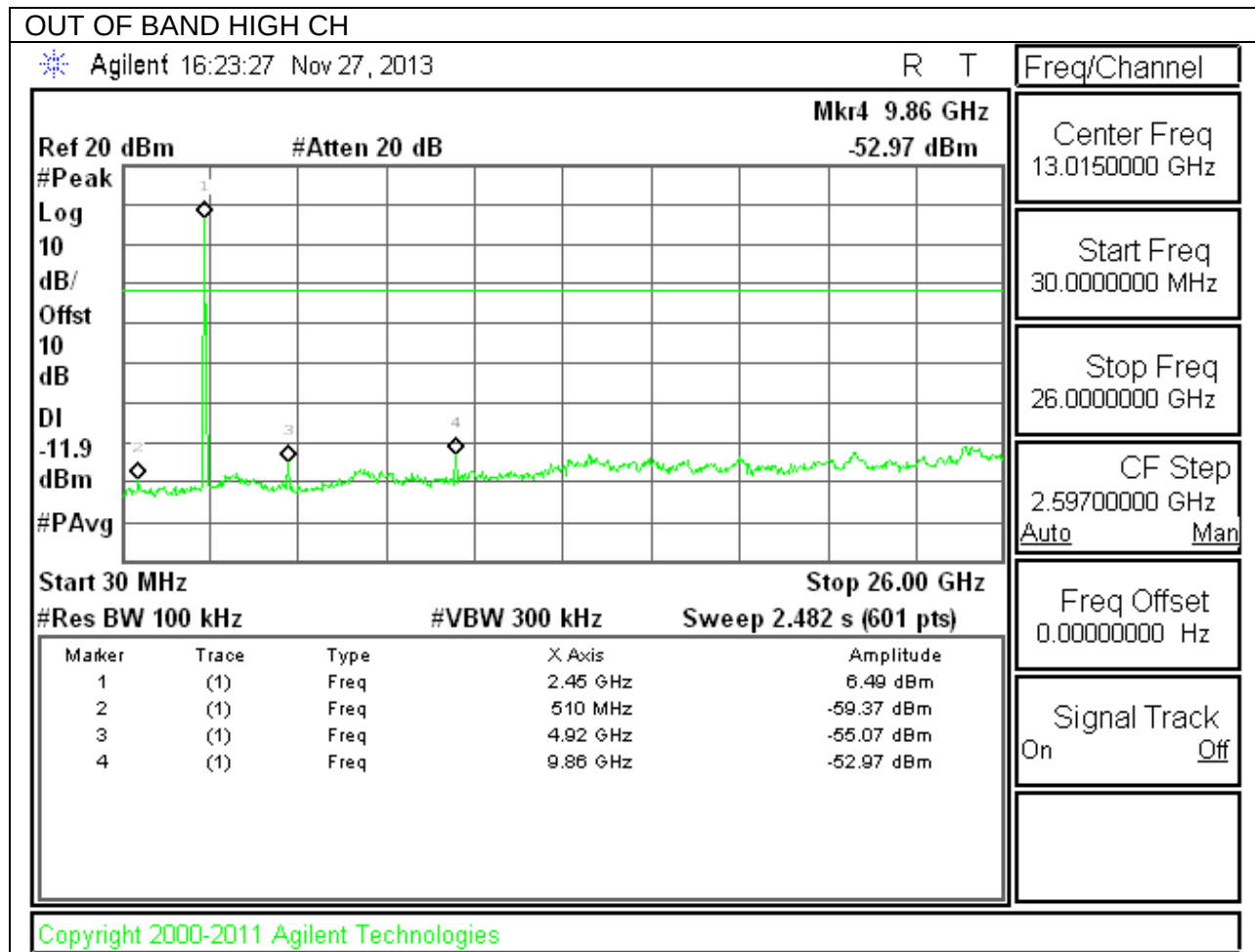
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

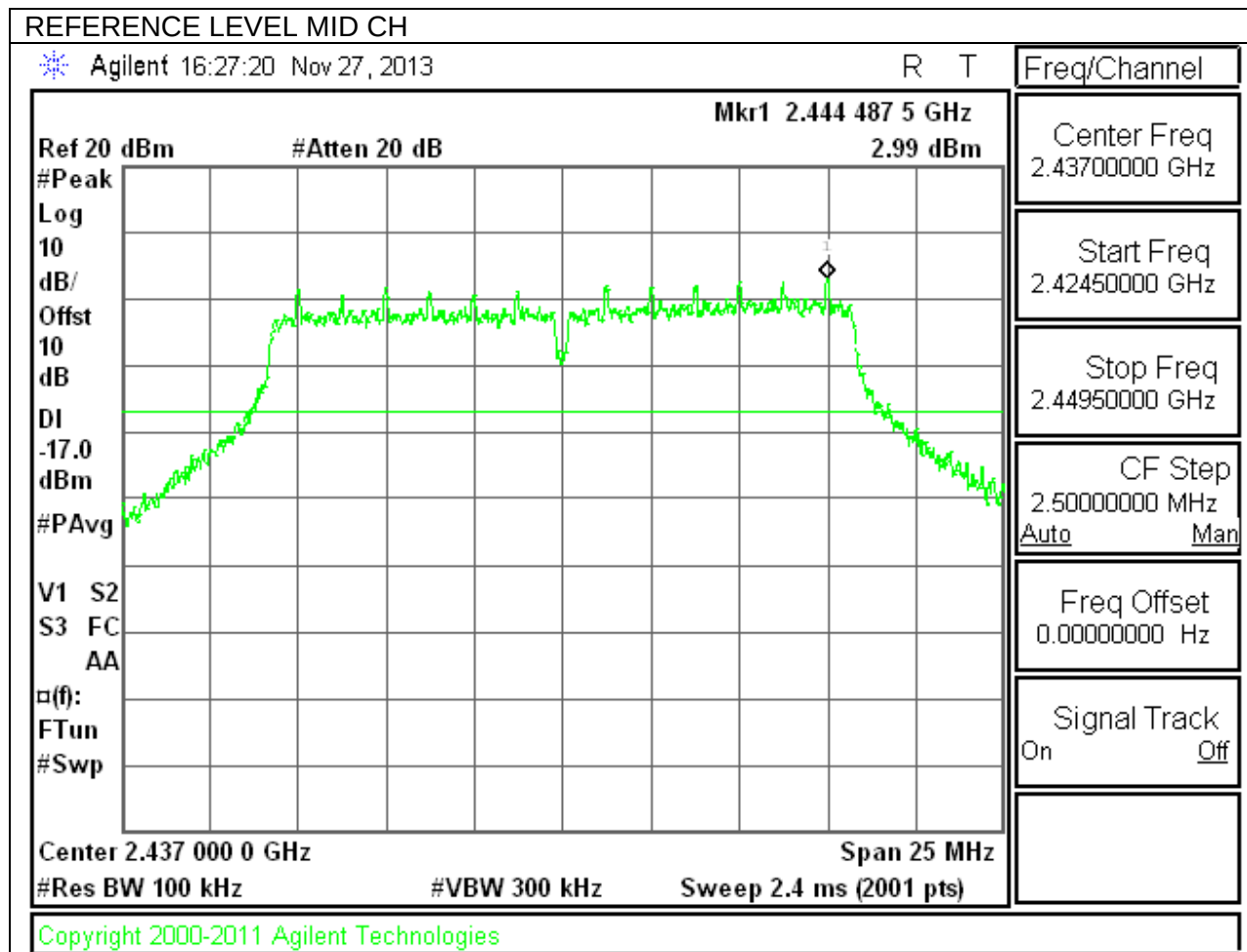




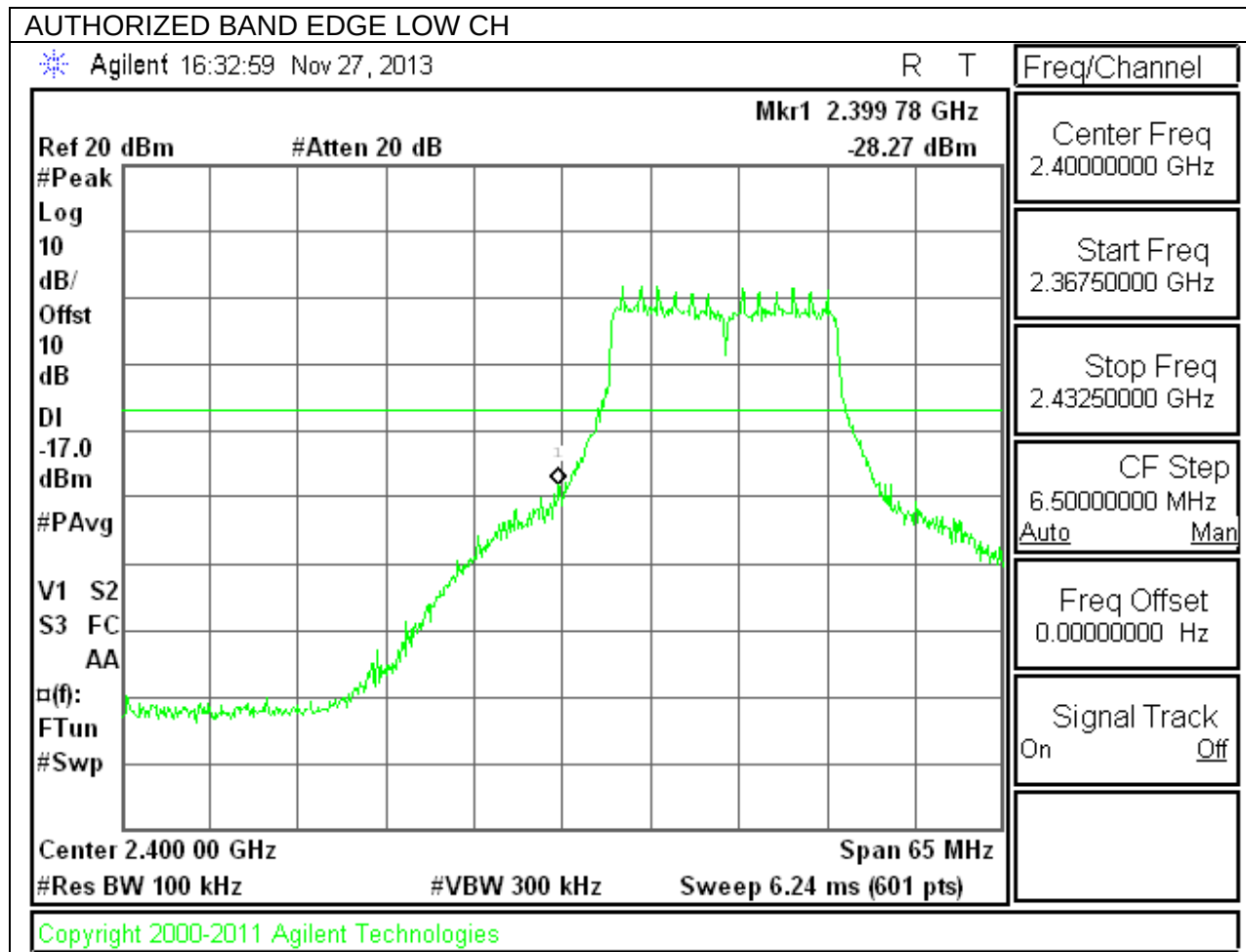


9.6.2. 802.11g MODE IN THE 2.4 GHz BAND

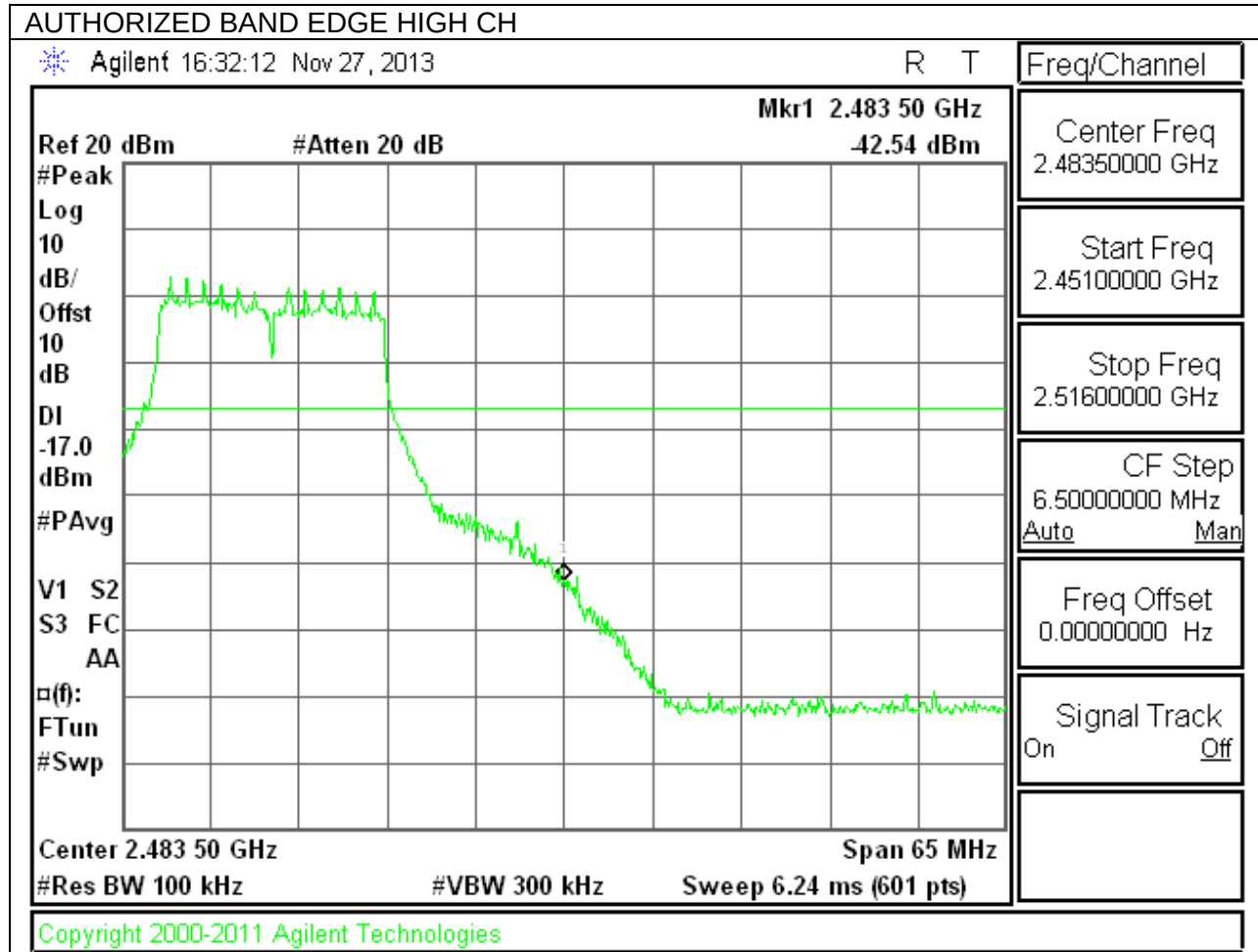
IN-BAND REFERENCE LEVEL



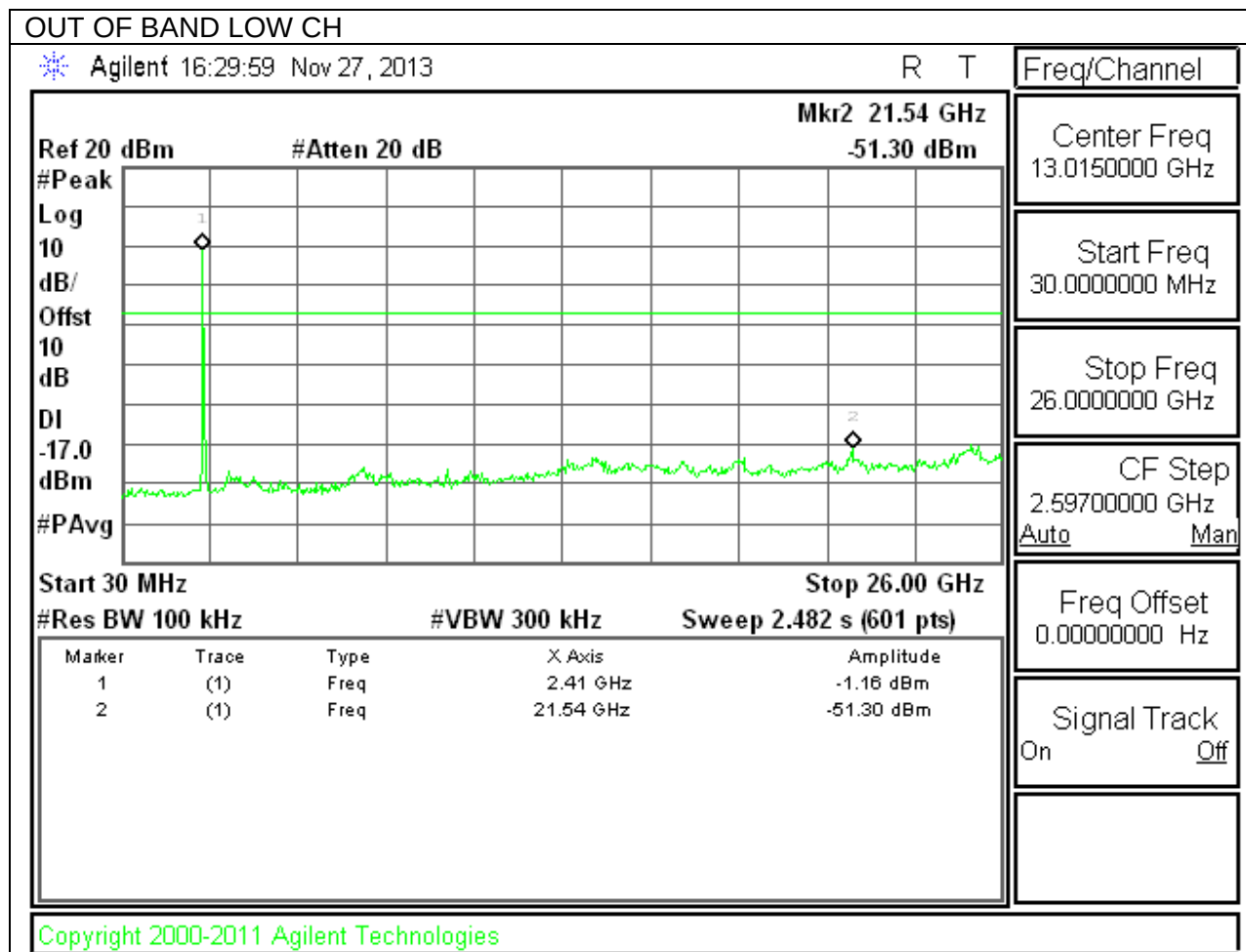
LOW CHANNEL BANDEDGE

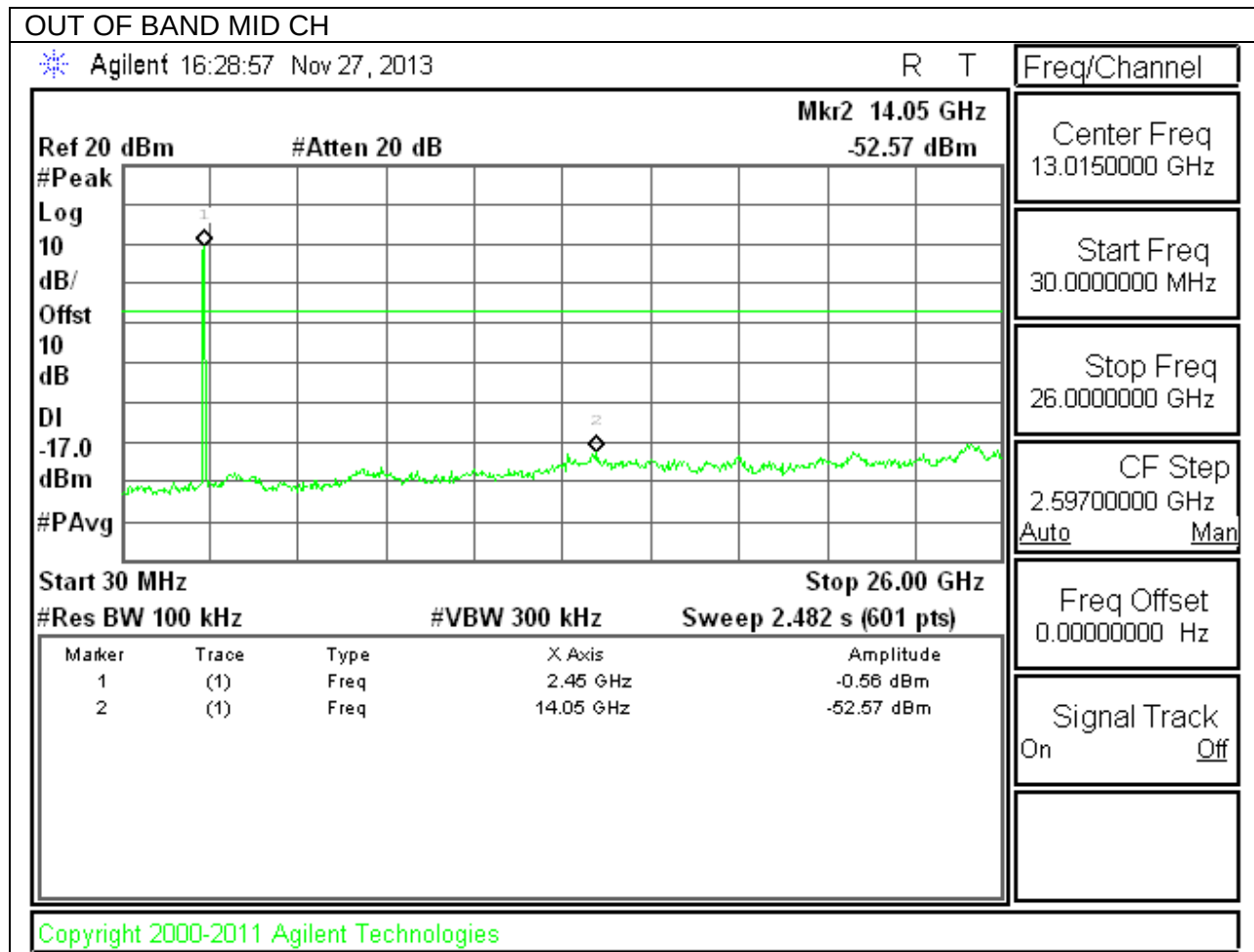


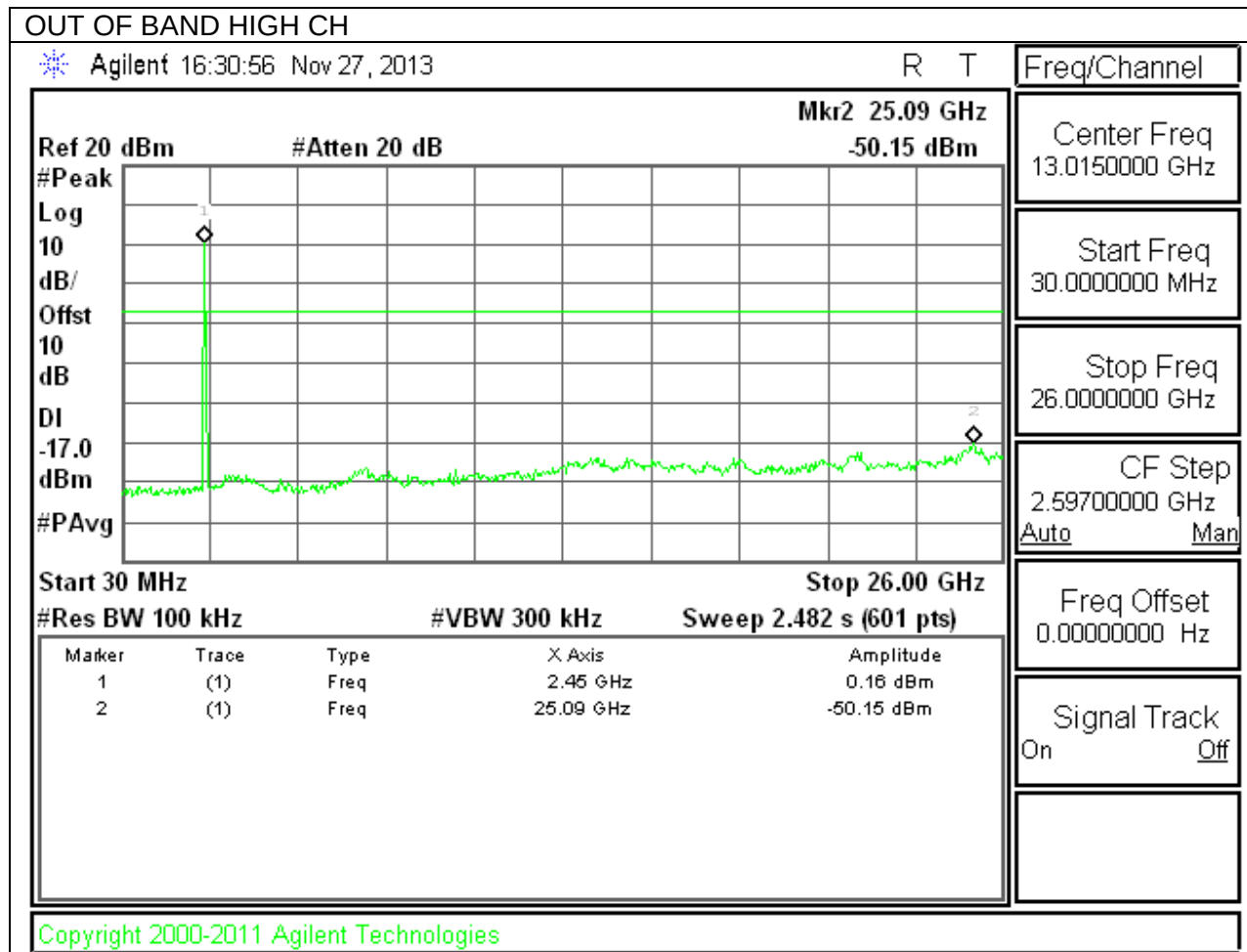
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

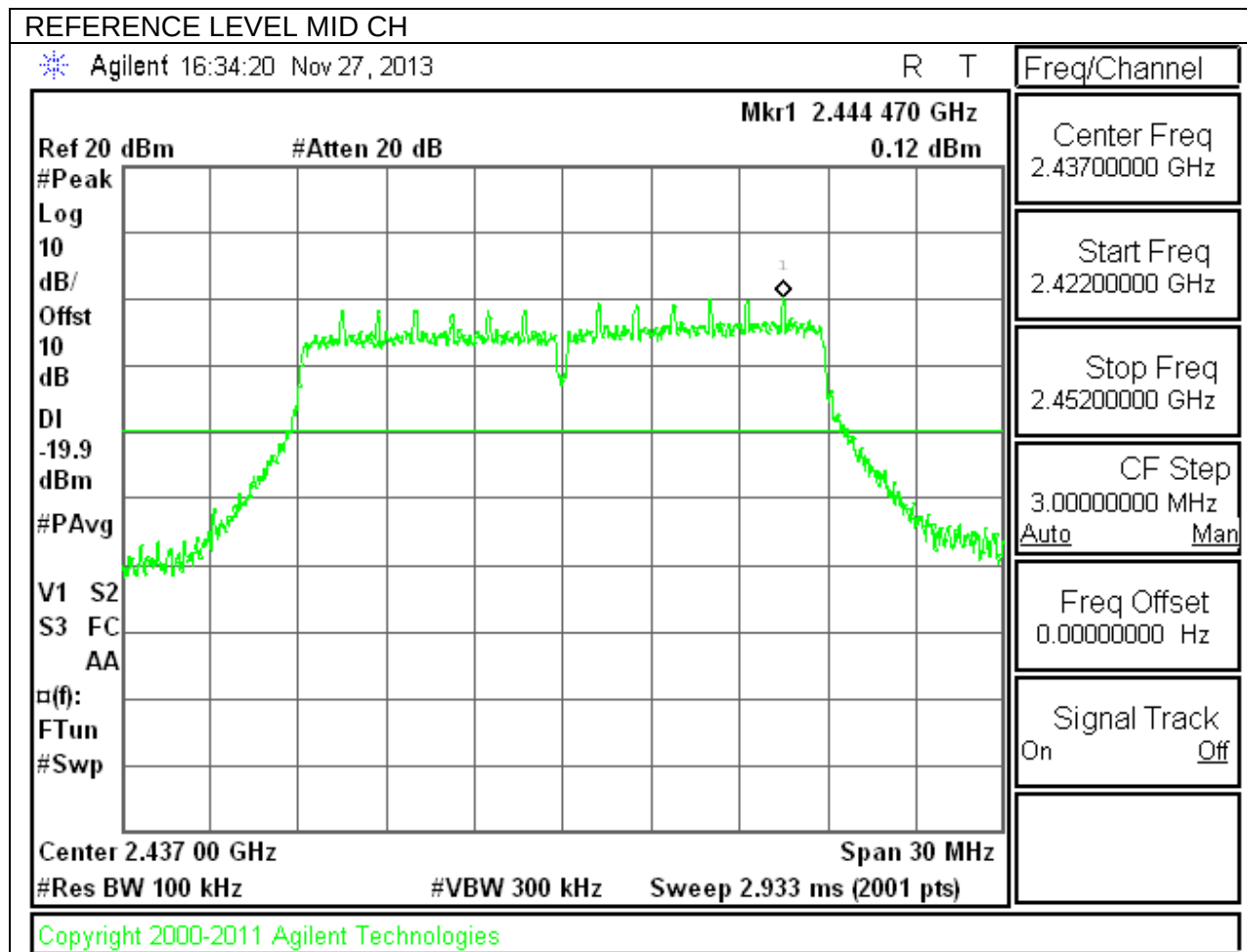




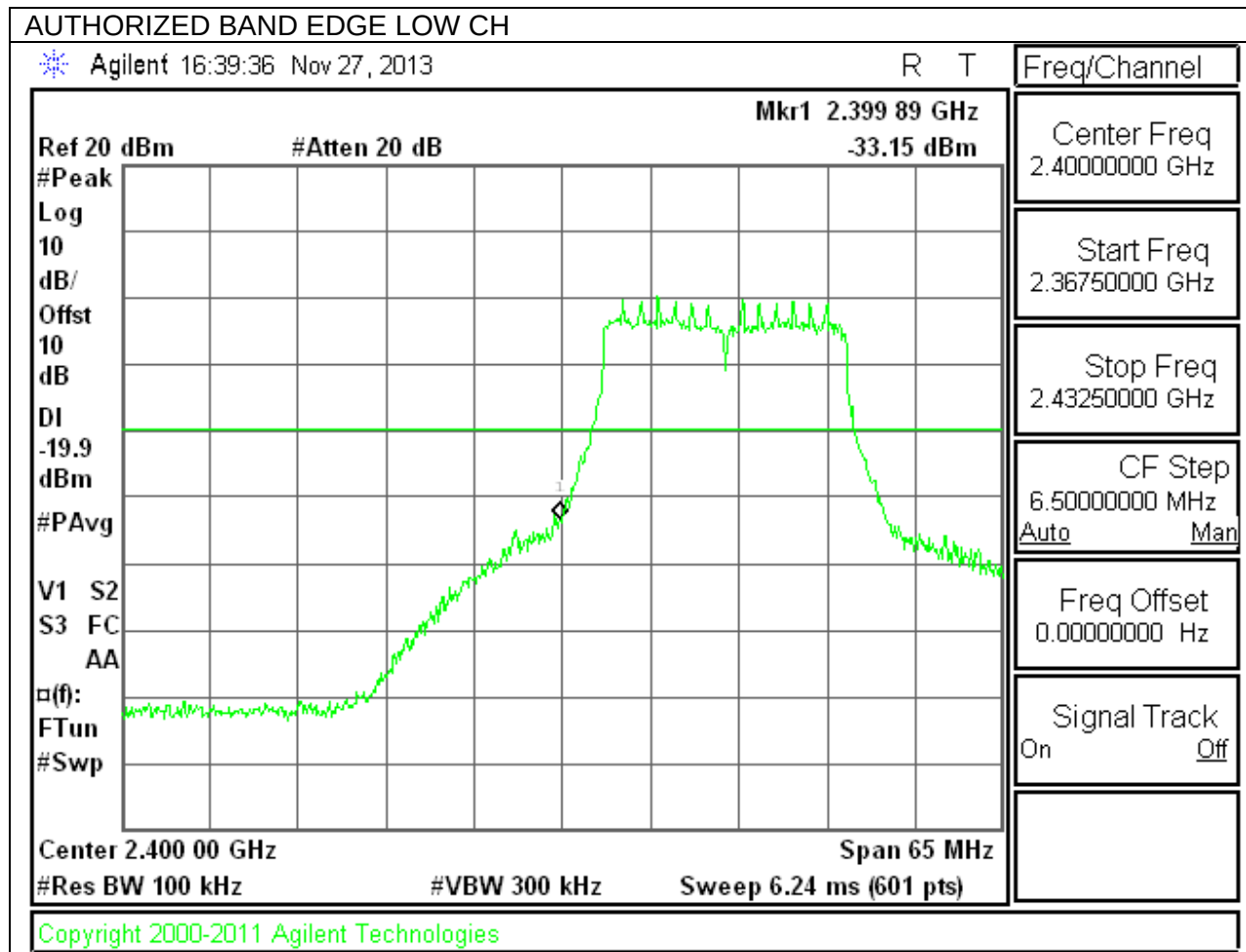


9.6.3. 802.11n MODE IN THE 2.4 GHZ BAND

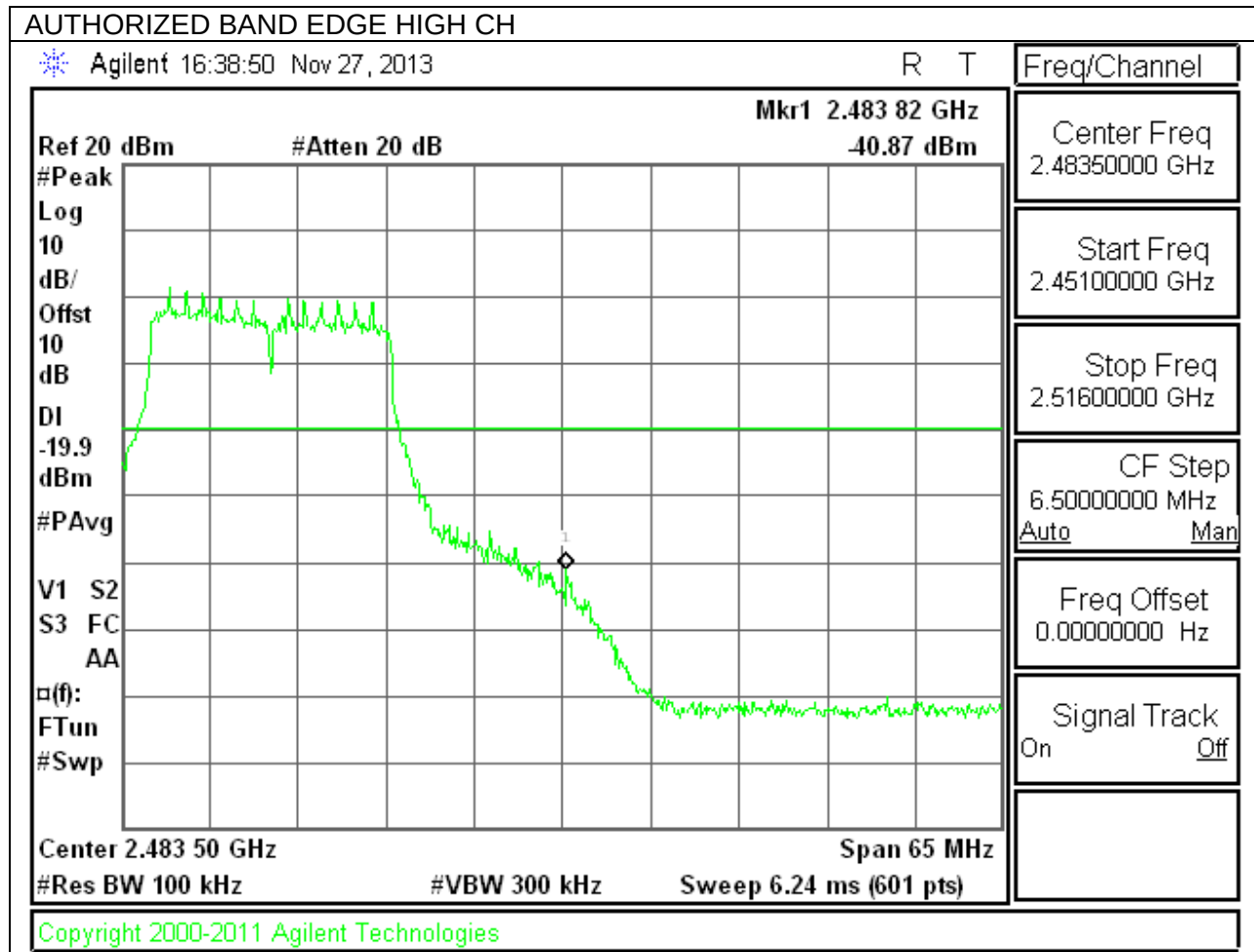
IN-BAND REFERENCE LEVEL



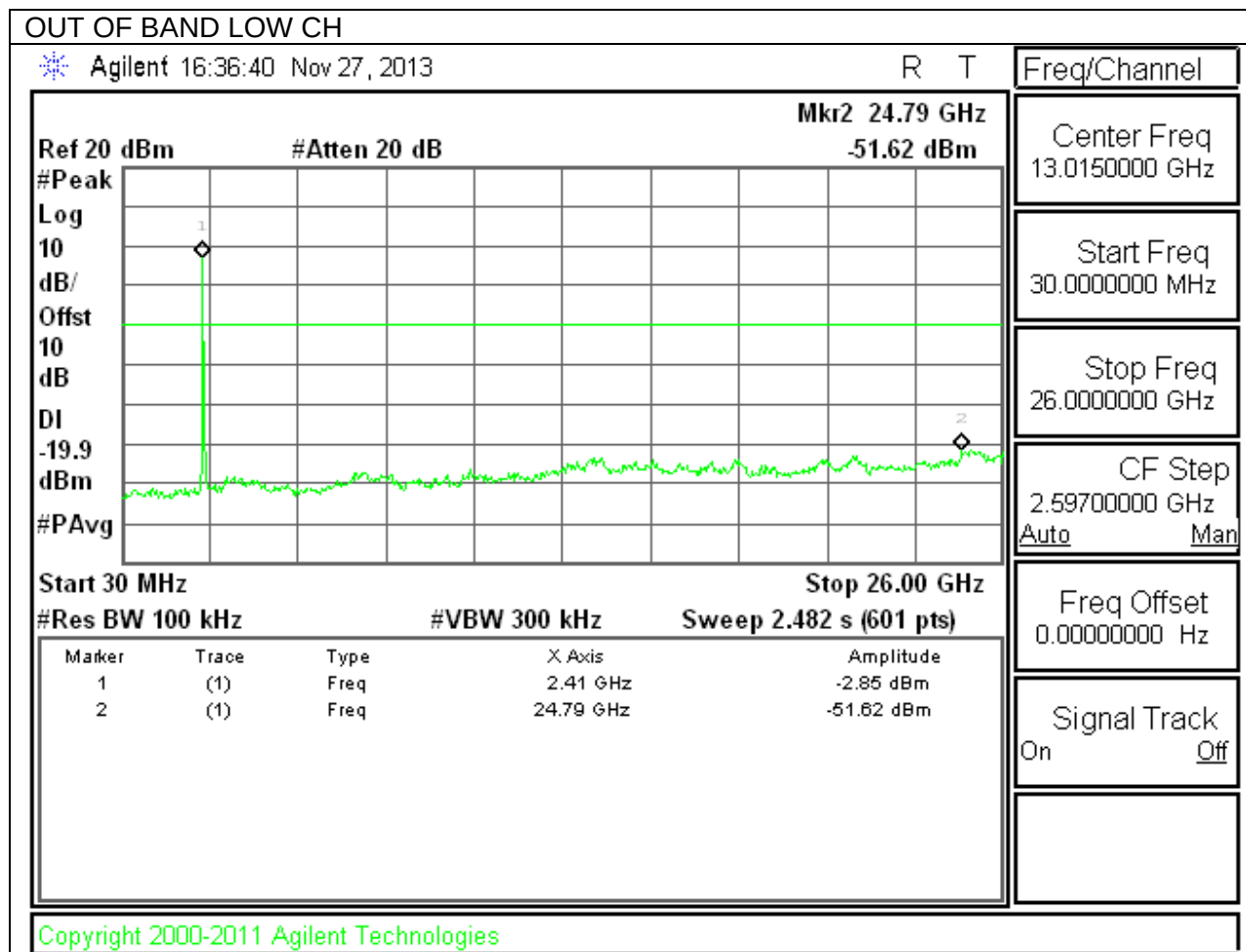
LOW CHANNEL BANDEDGE

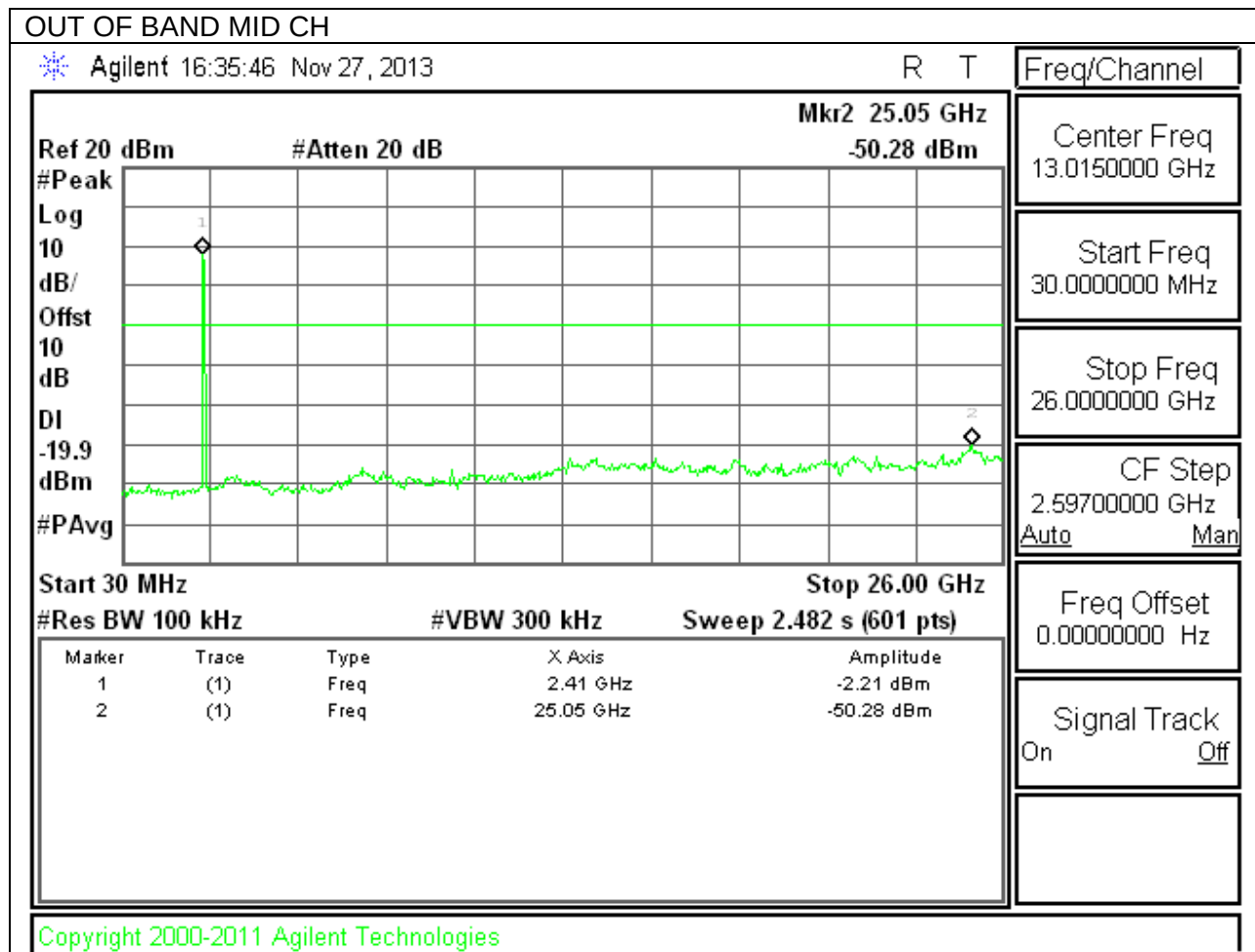


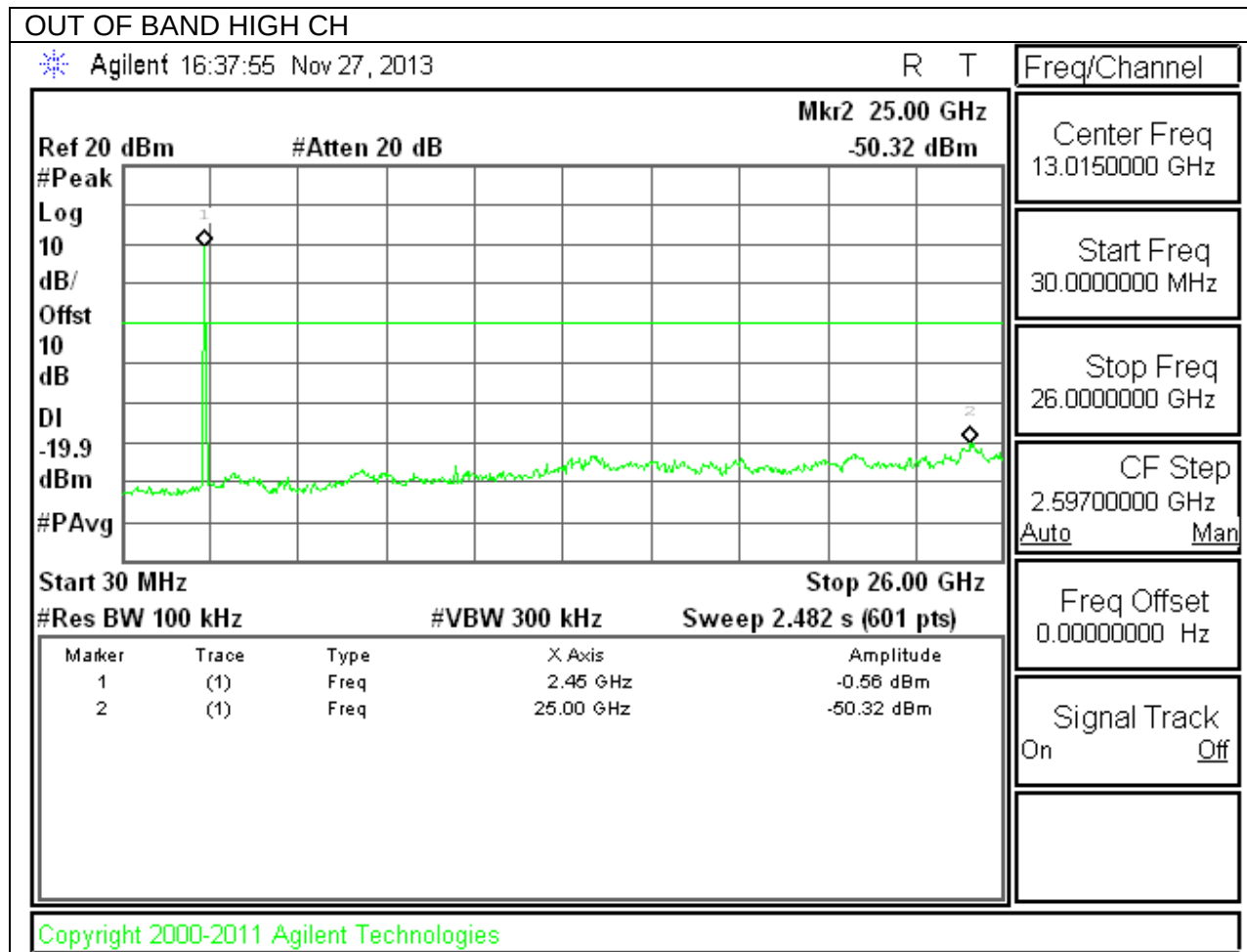
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

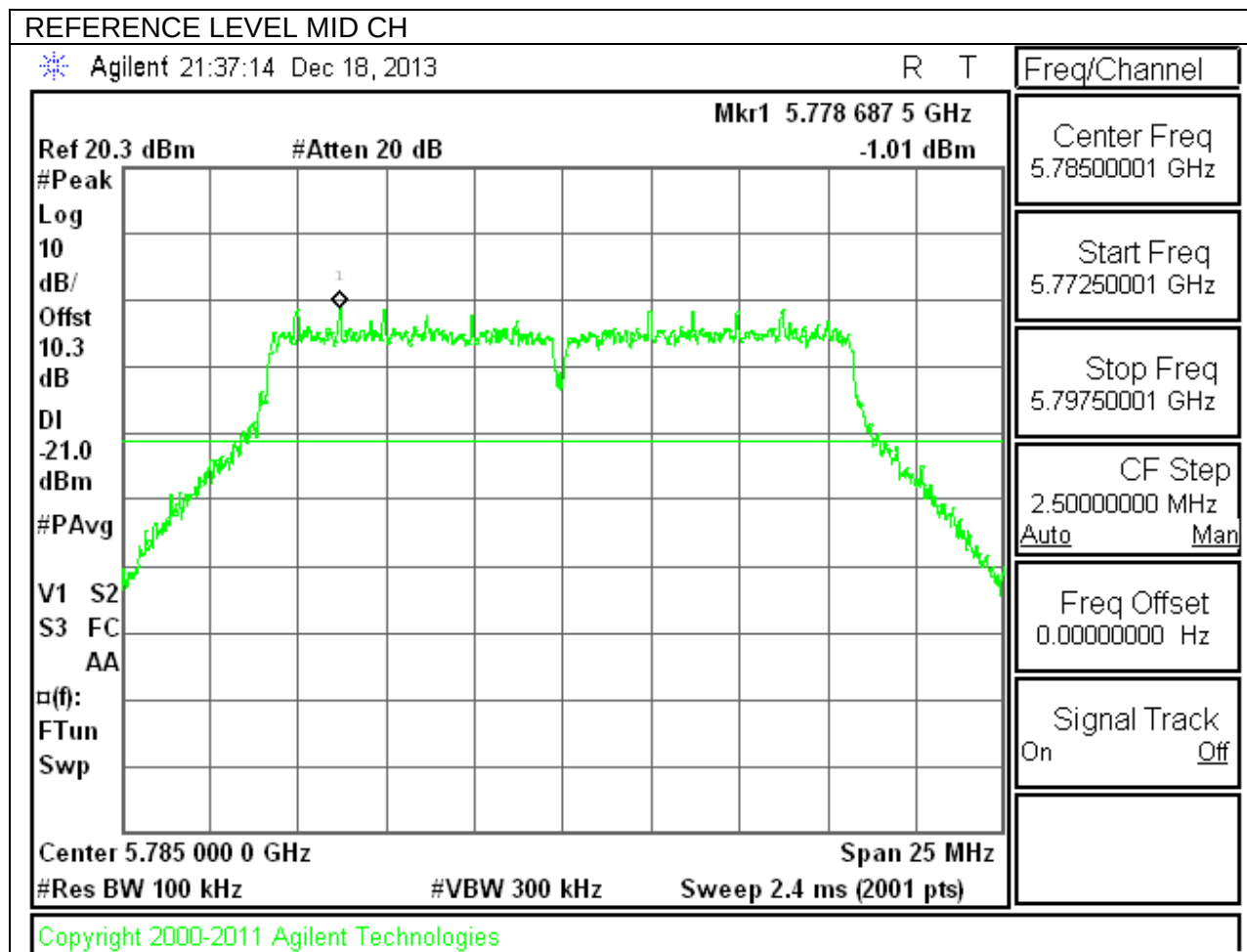




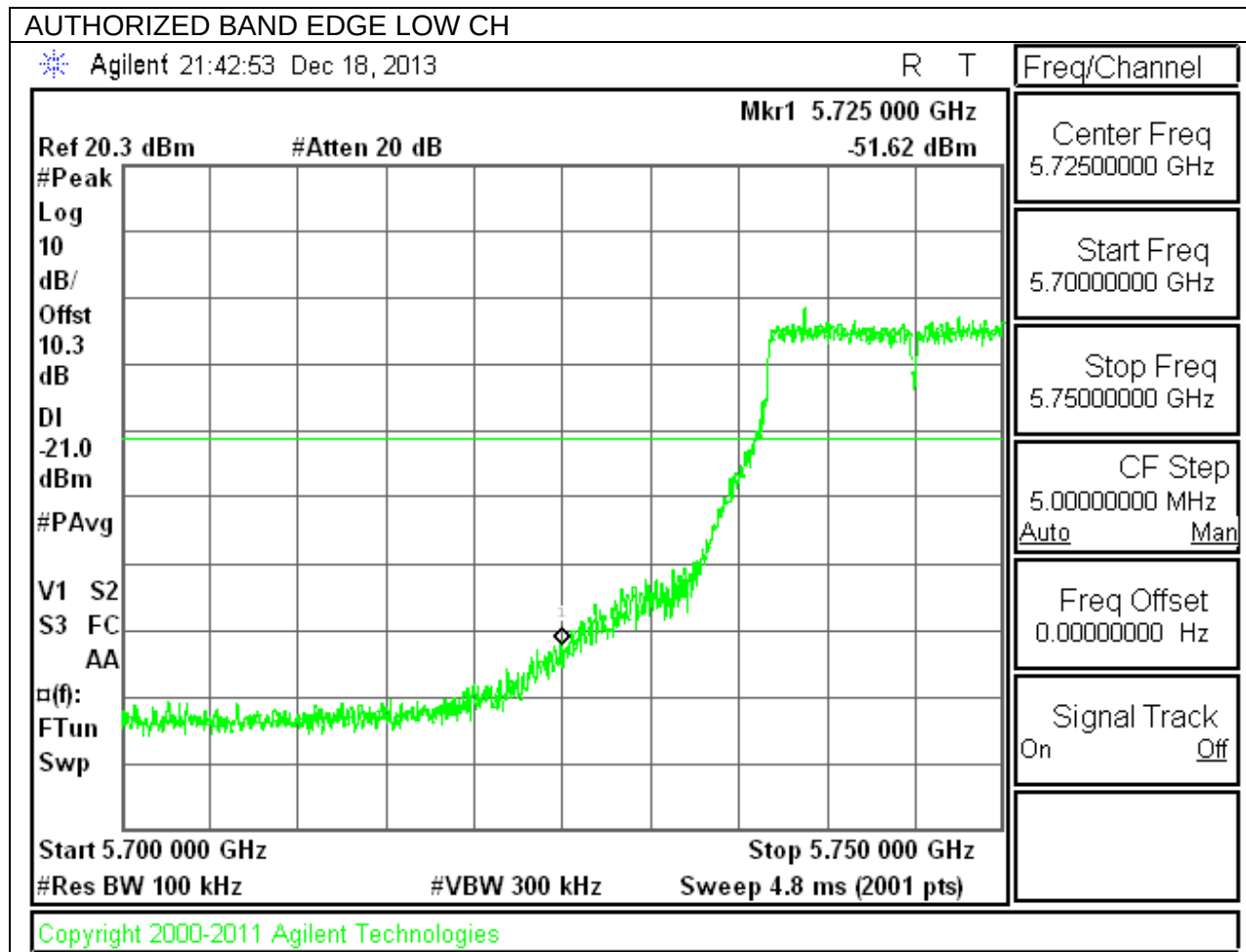


9.6.4. 802.11a MODE IN THE 5.8 GHz BAND

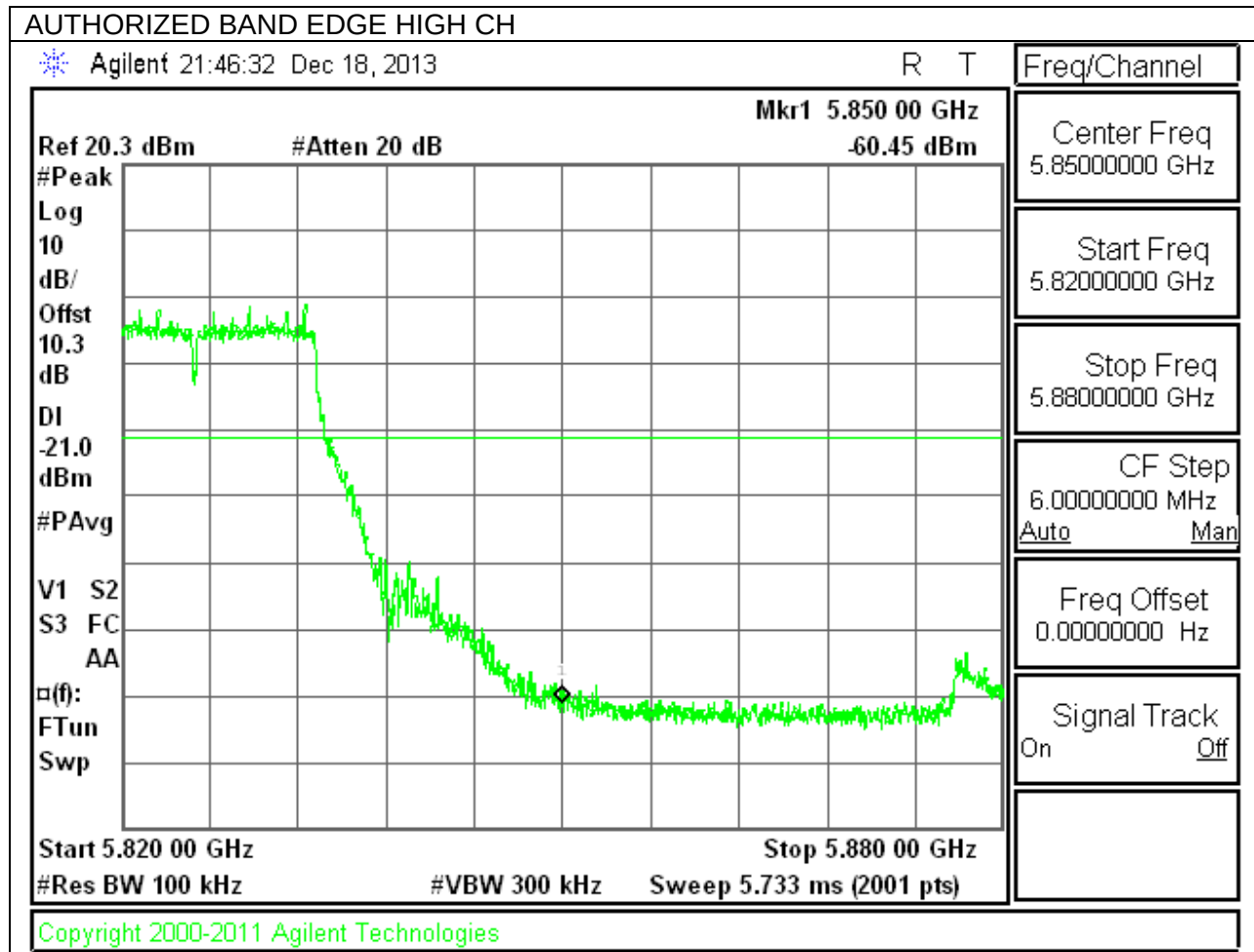
IN-BAND REFERENCE LEVEL



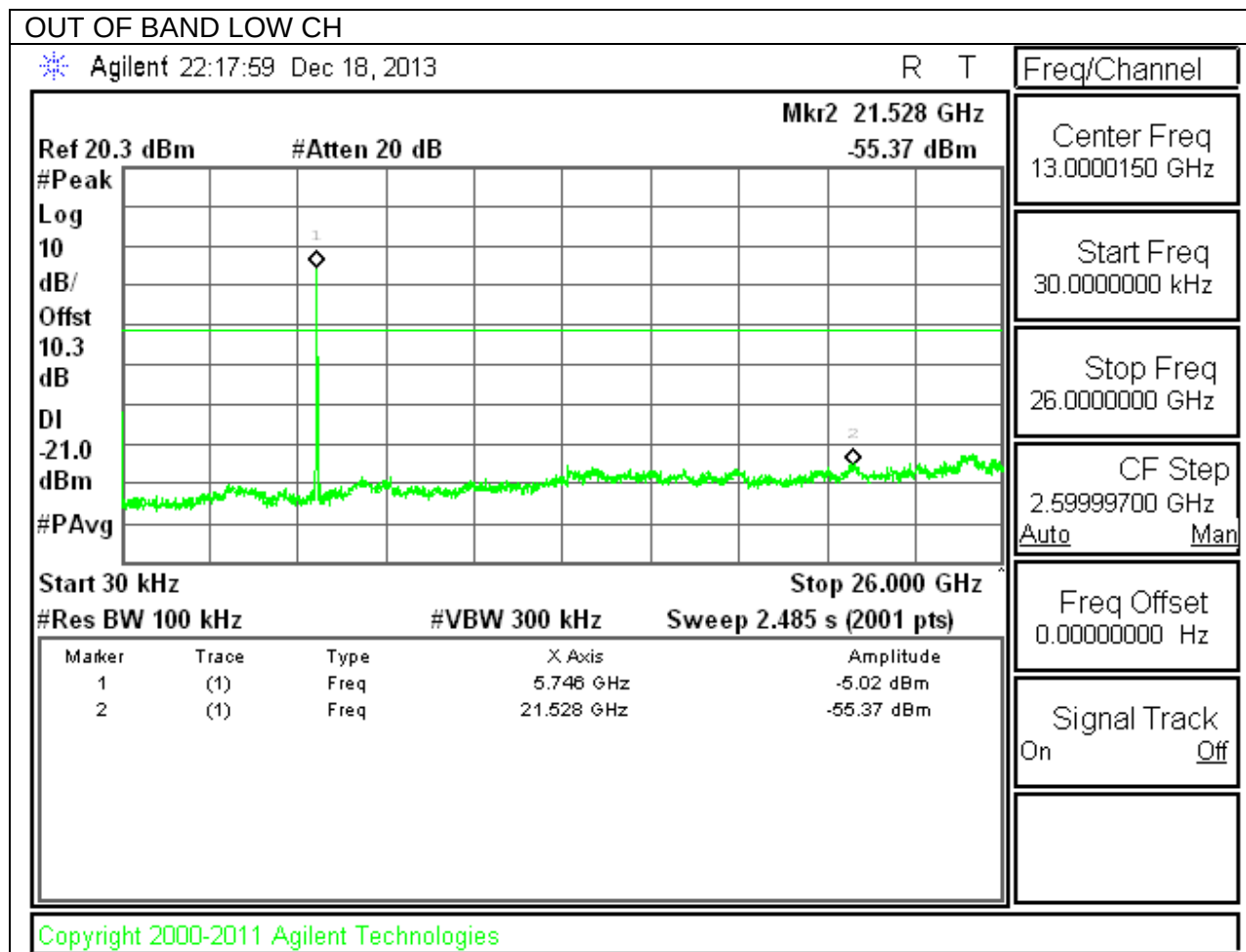
LOW CHANNEL BANDEDGE

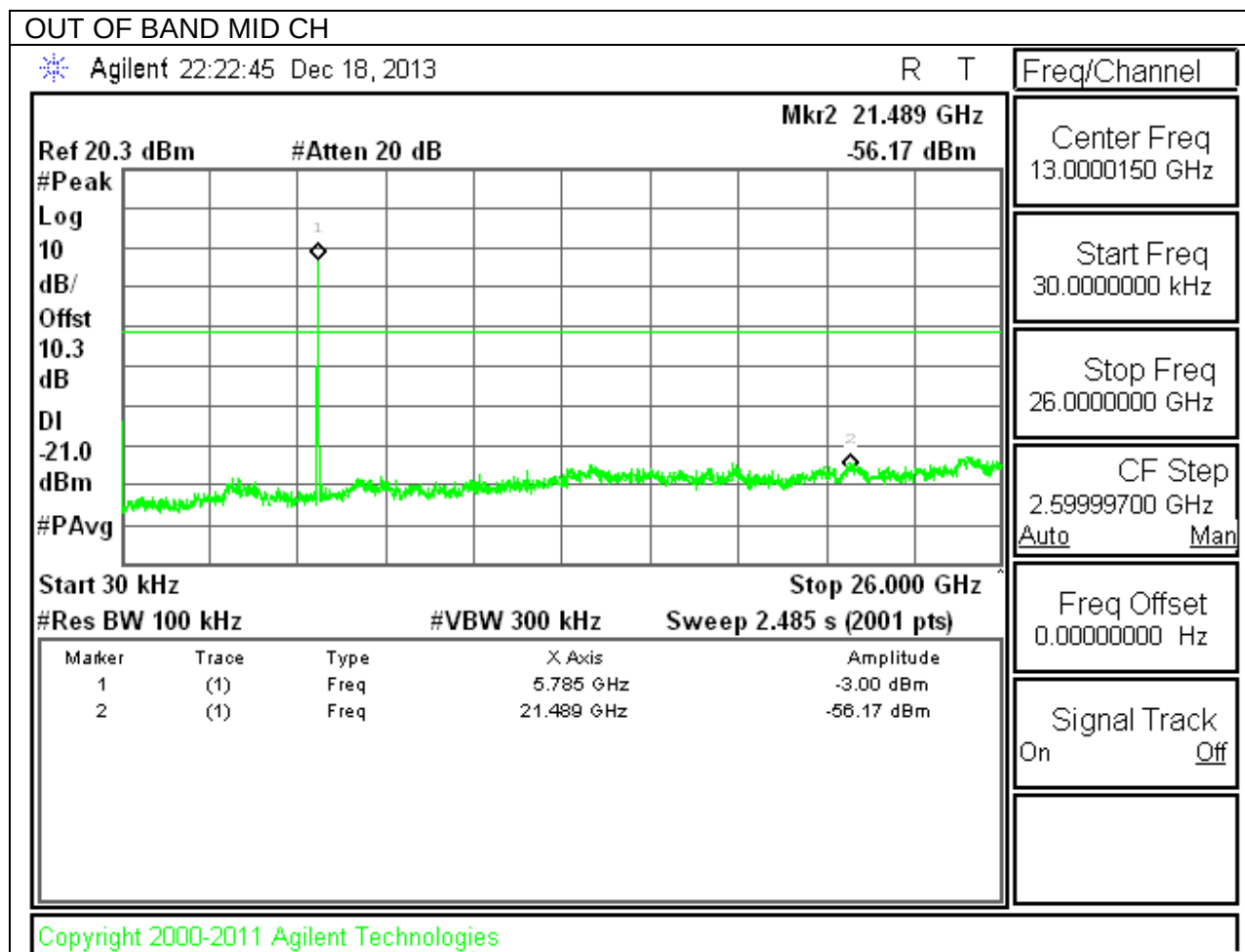


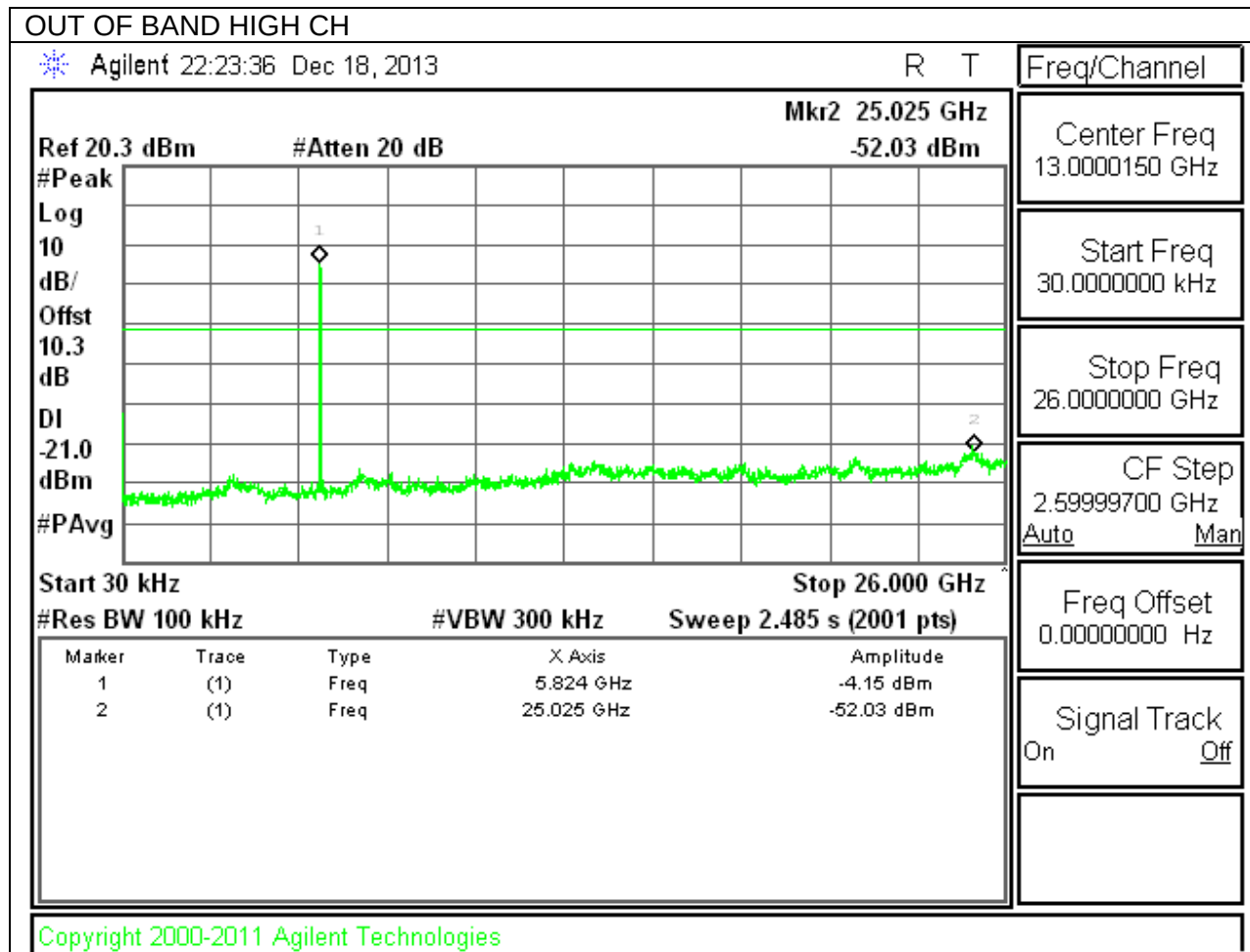
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

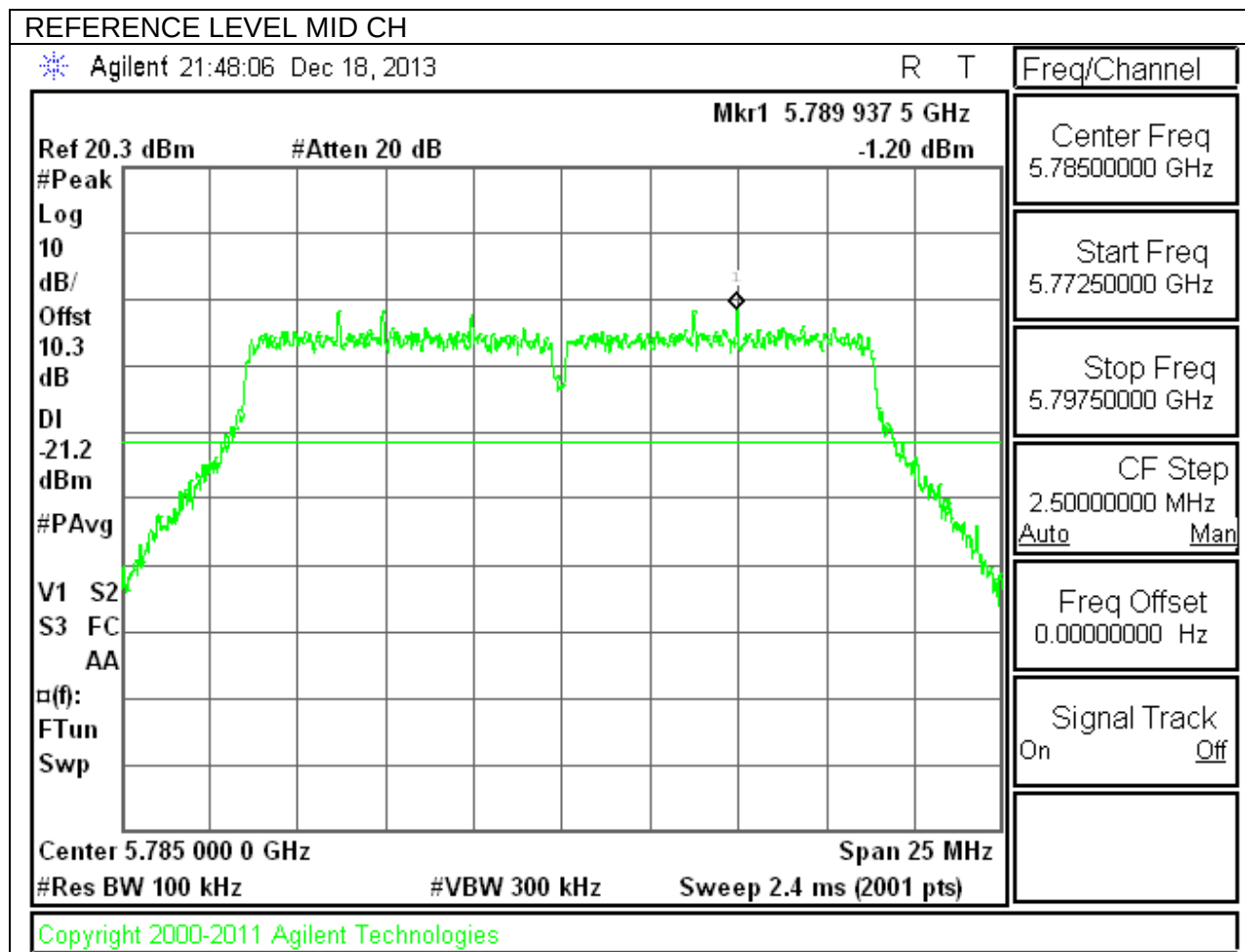




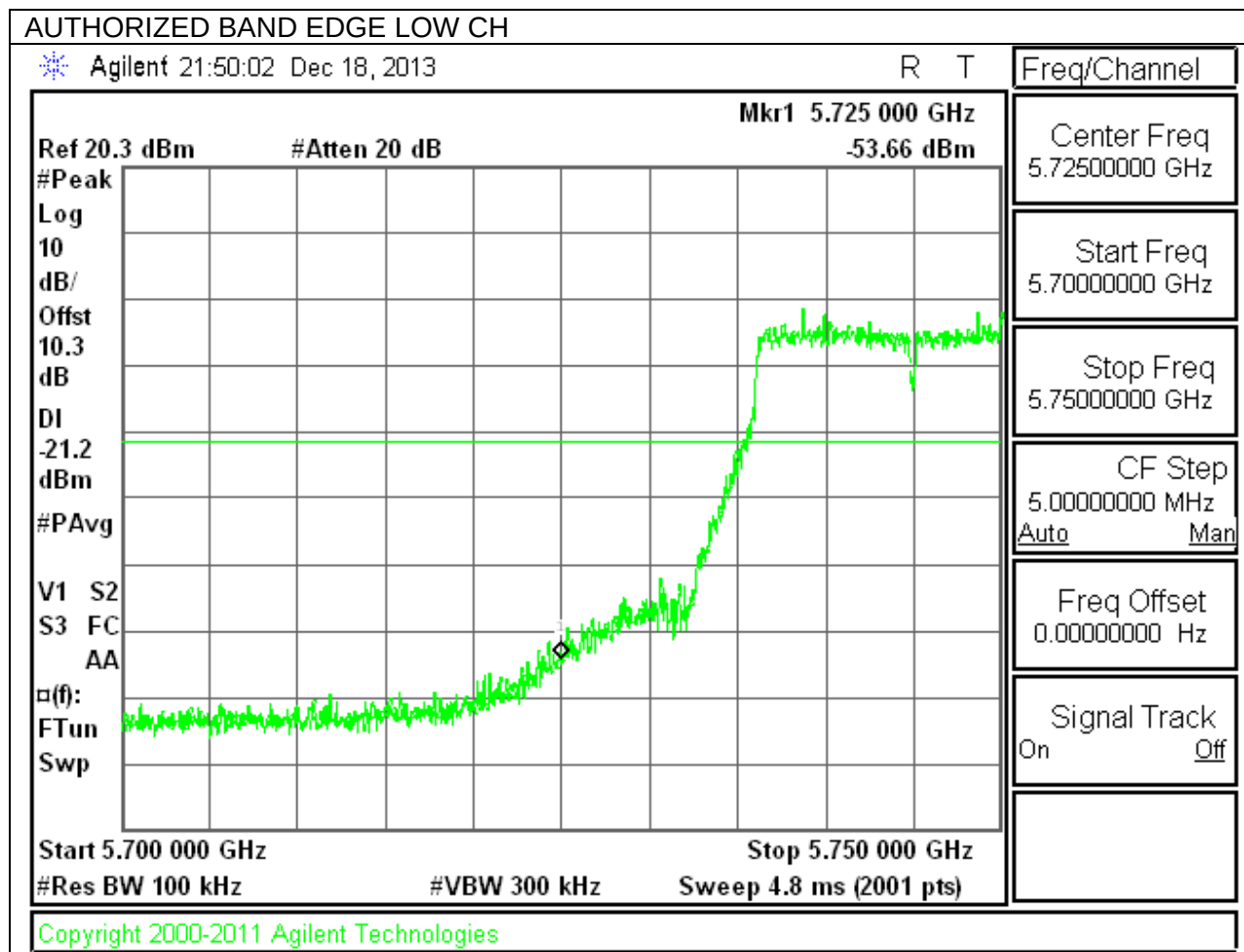


9.6.5. 802.11n MODE IN THE 5.8 GHz BAND

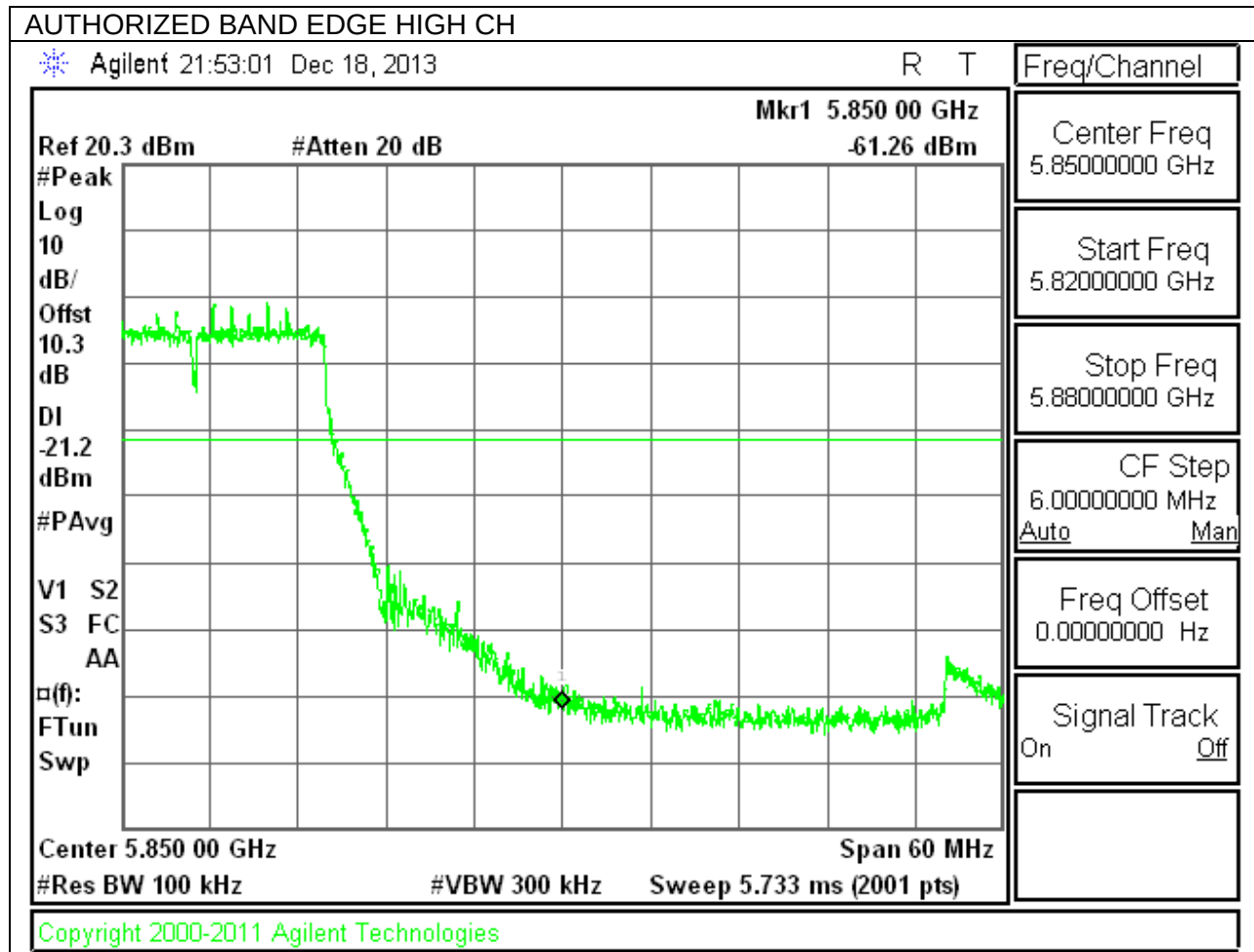
IN-BAND REFERENCE LEVEL



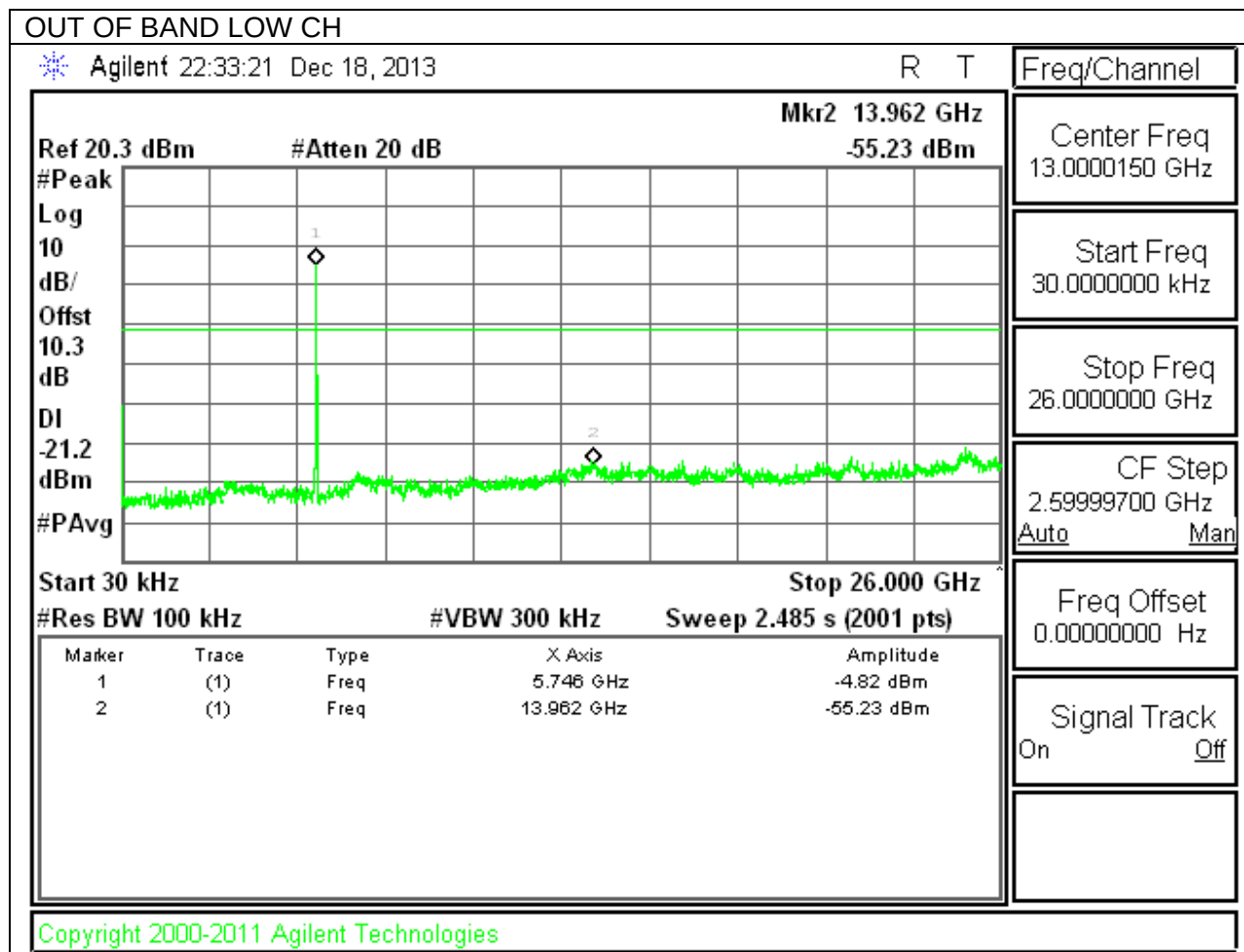
LOW CHANNEL BANDEDGE

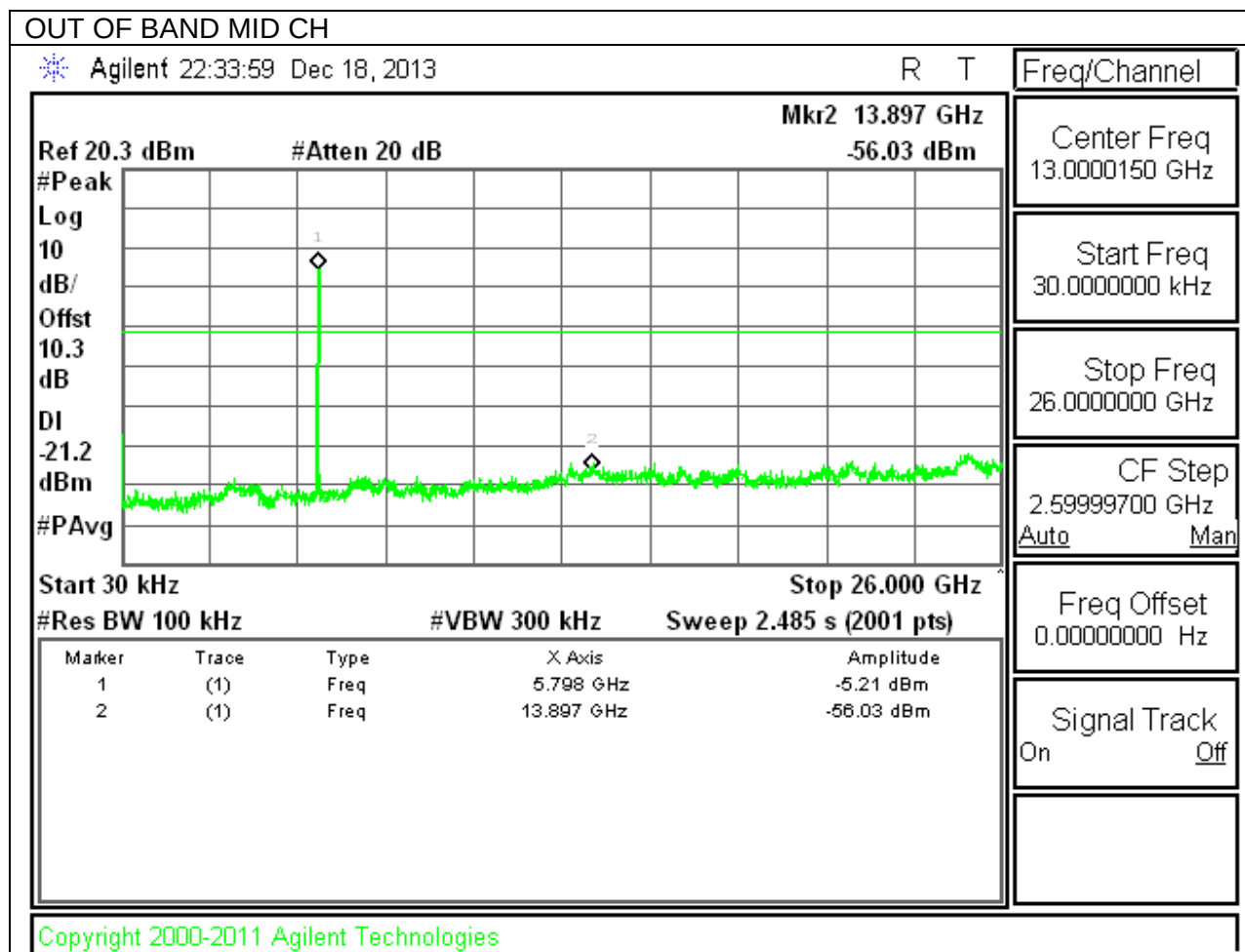


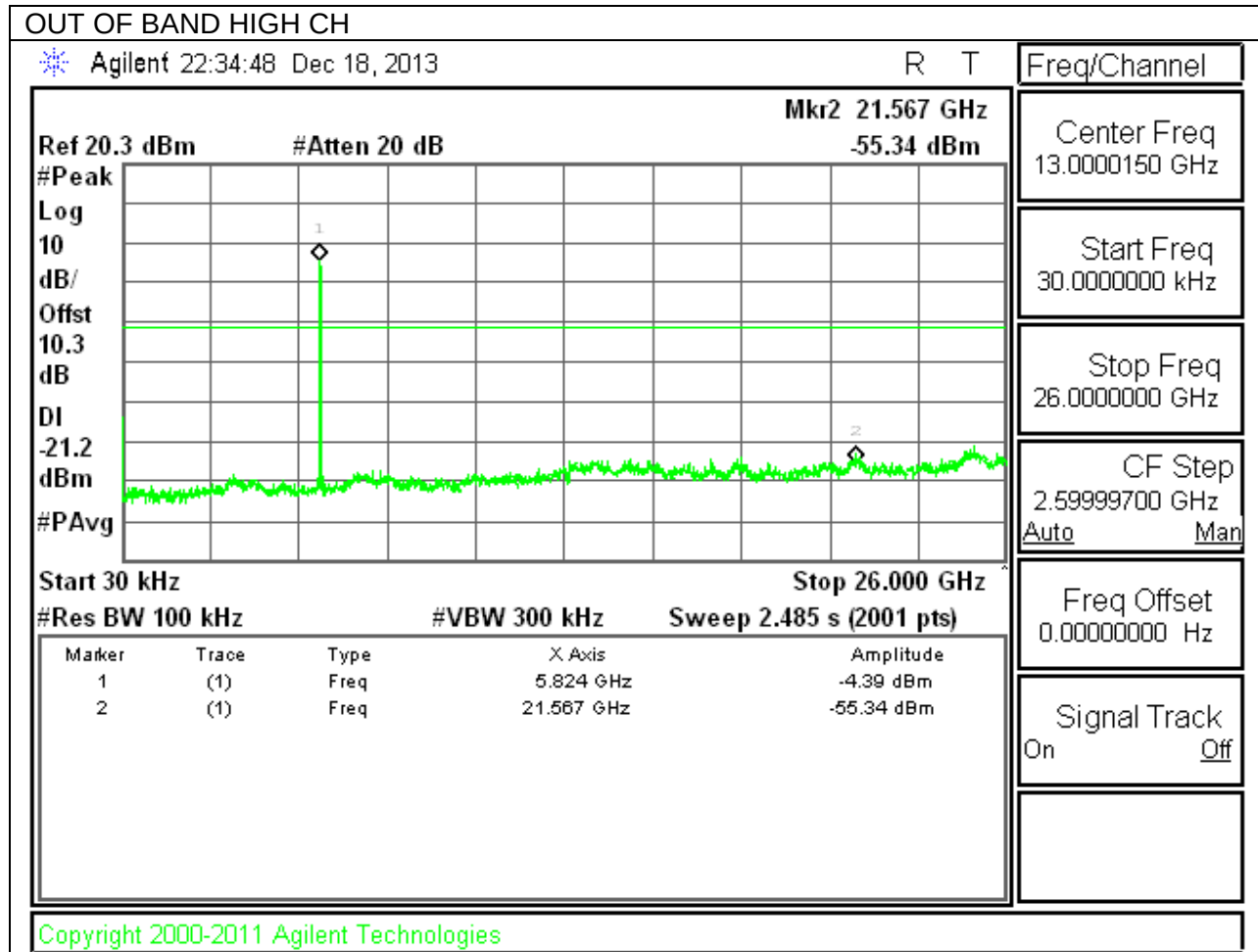
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

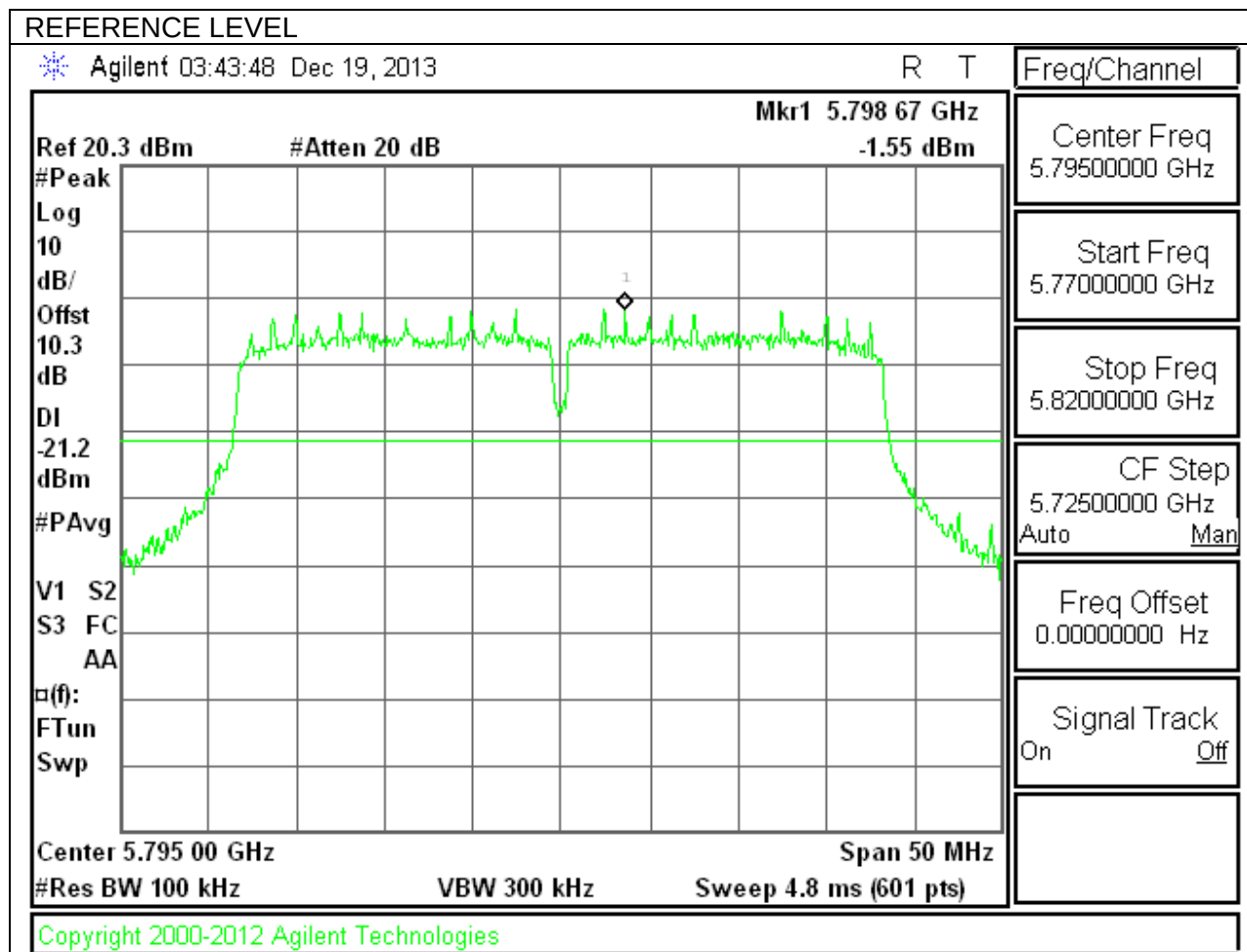




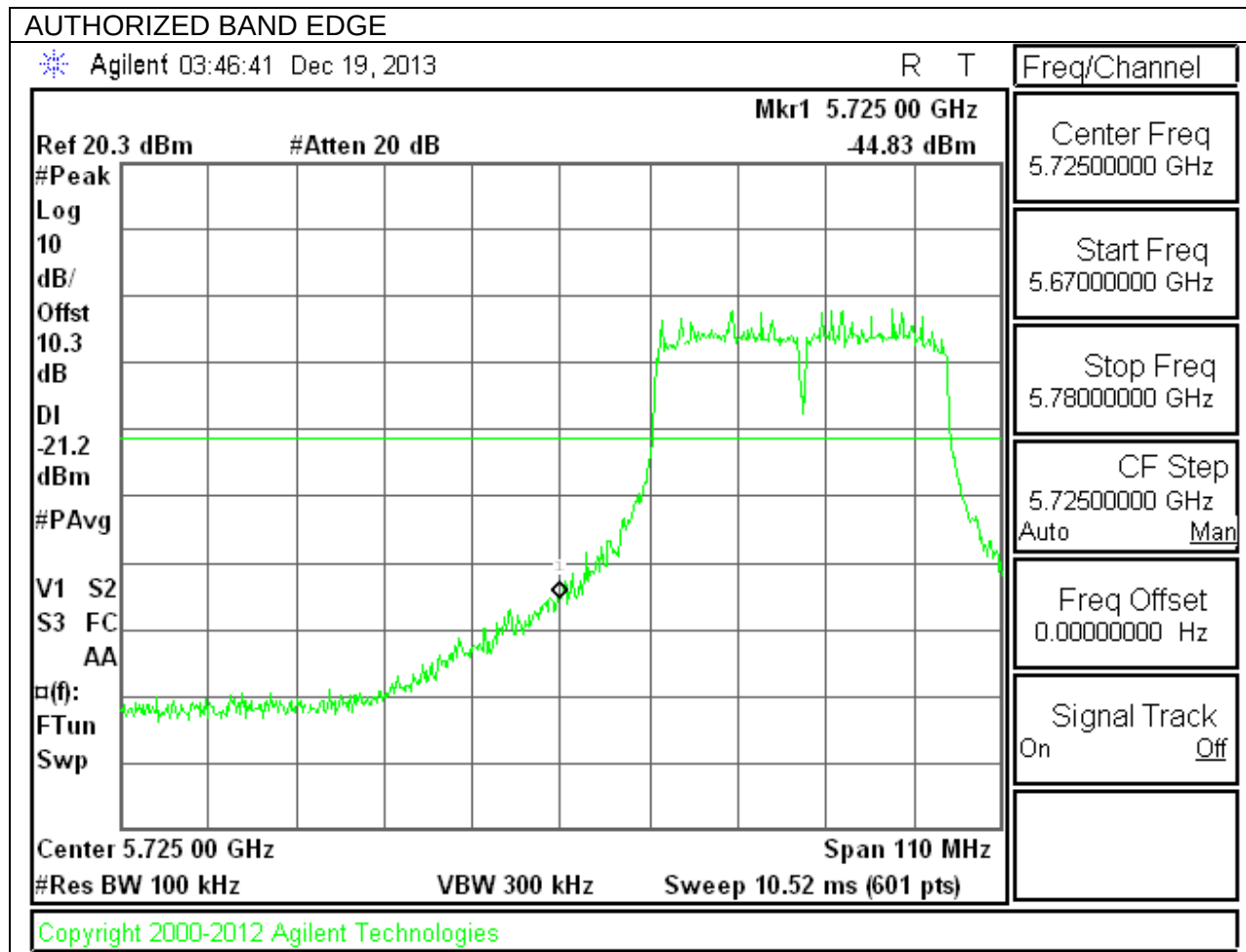


9.6.6. 802.11n HT40 MODE IN THE 5.8 GHz BAND

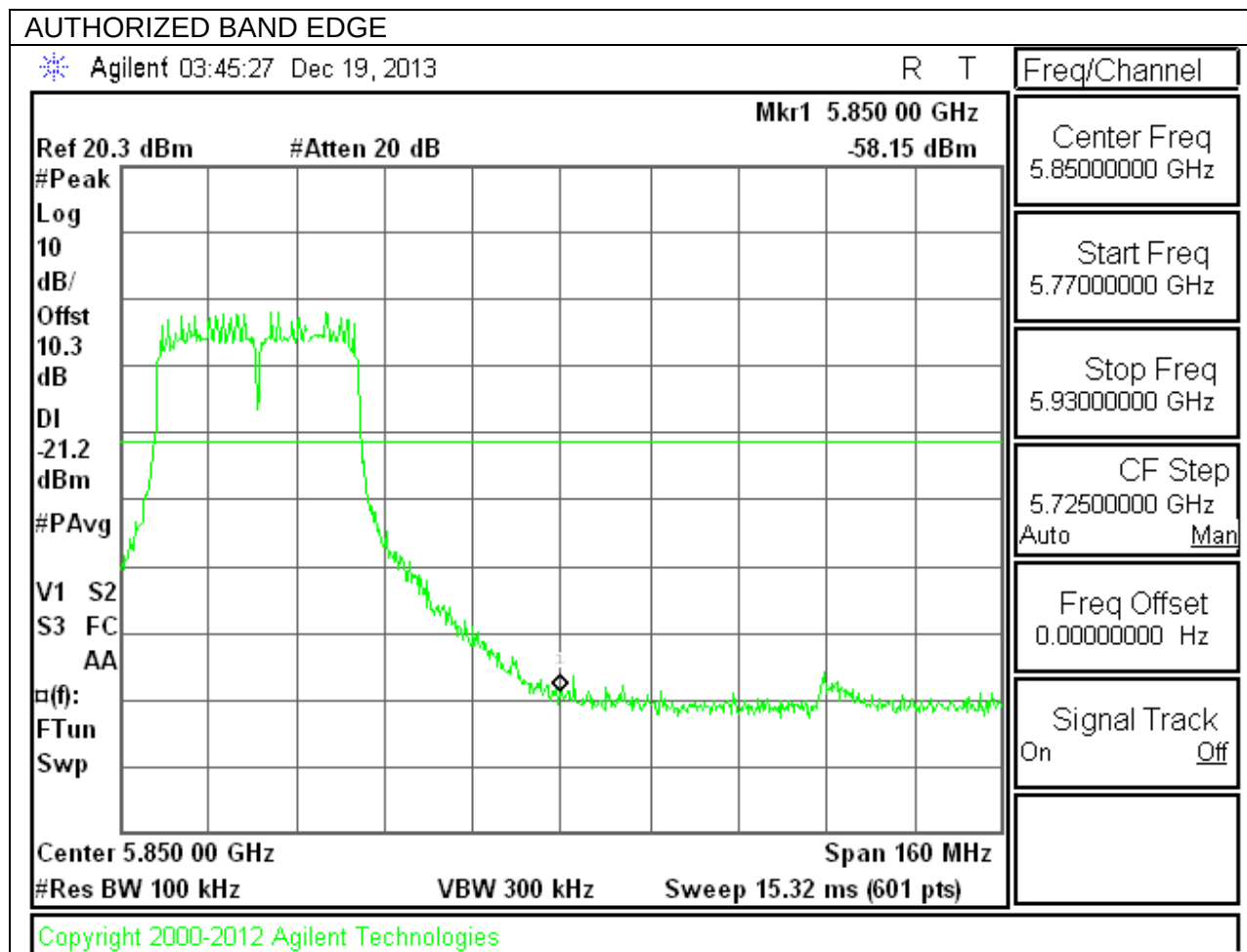
IN-BAND REFERENCE LEVEL



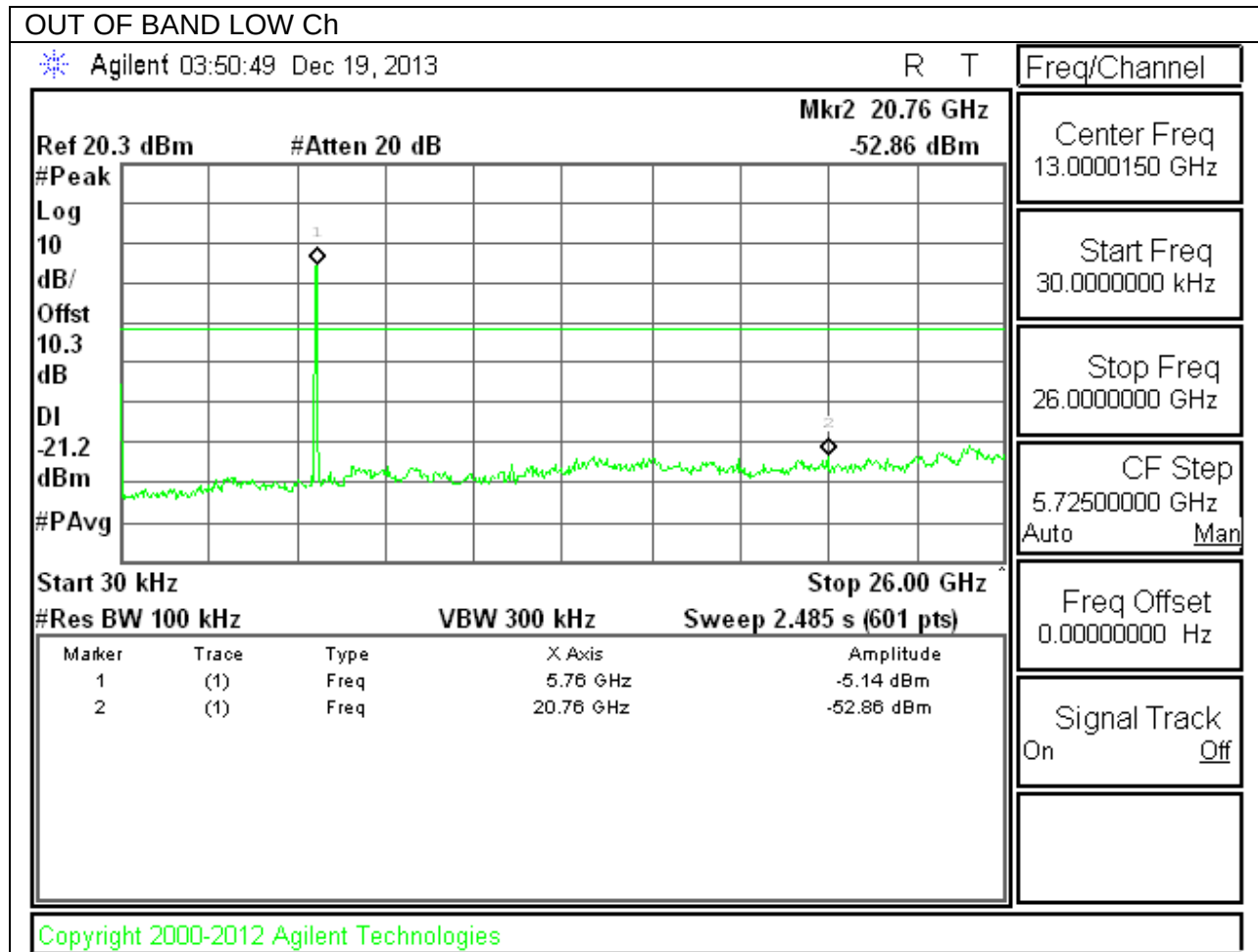
LOW CHANNEL BANDEDGE

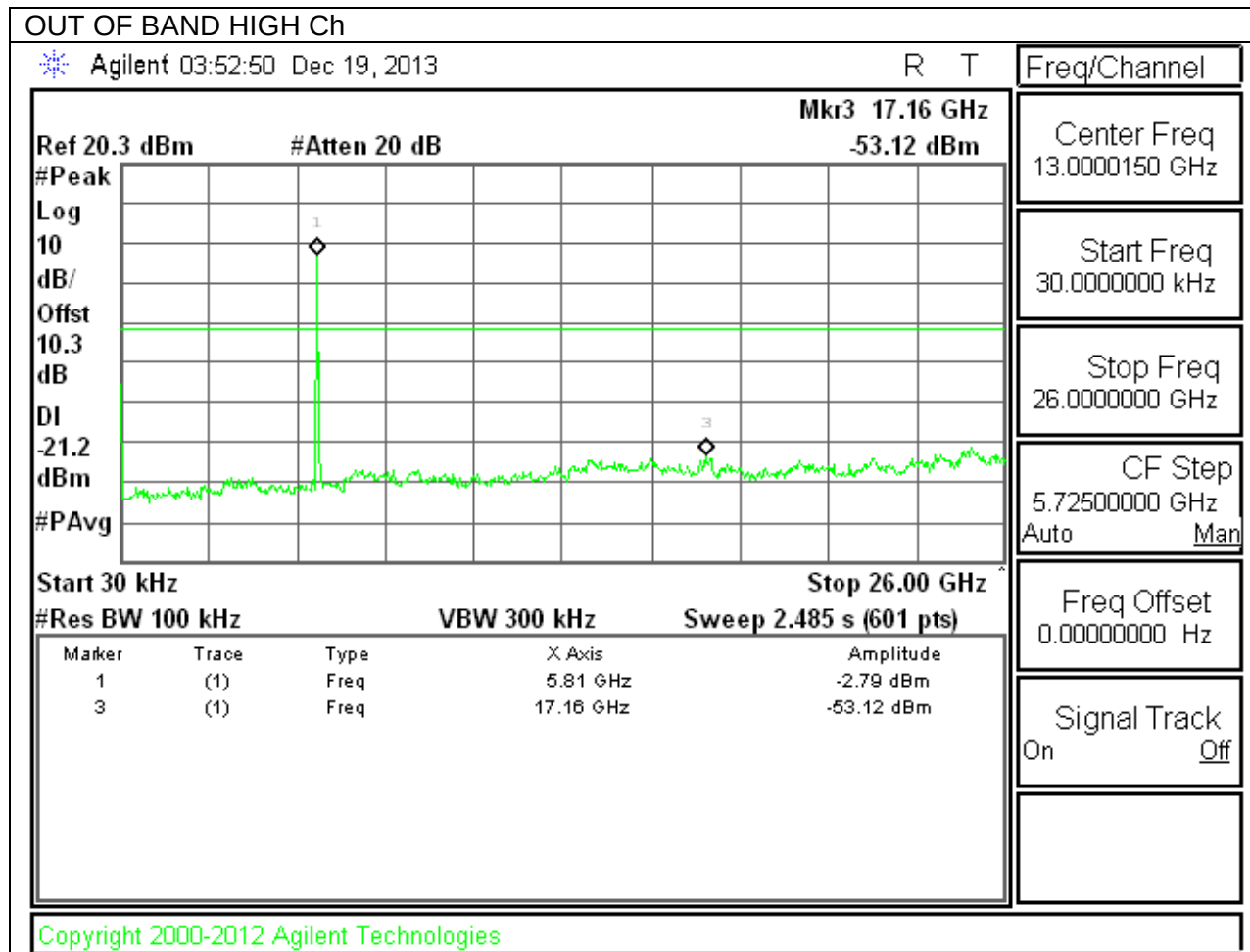


HIGH CHANNEL BANDEDGE



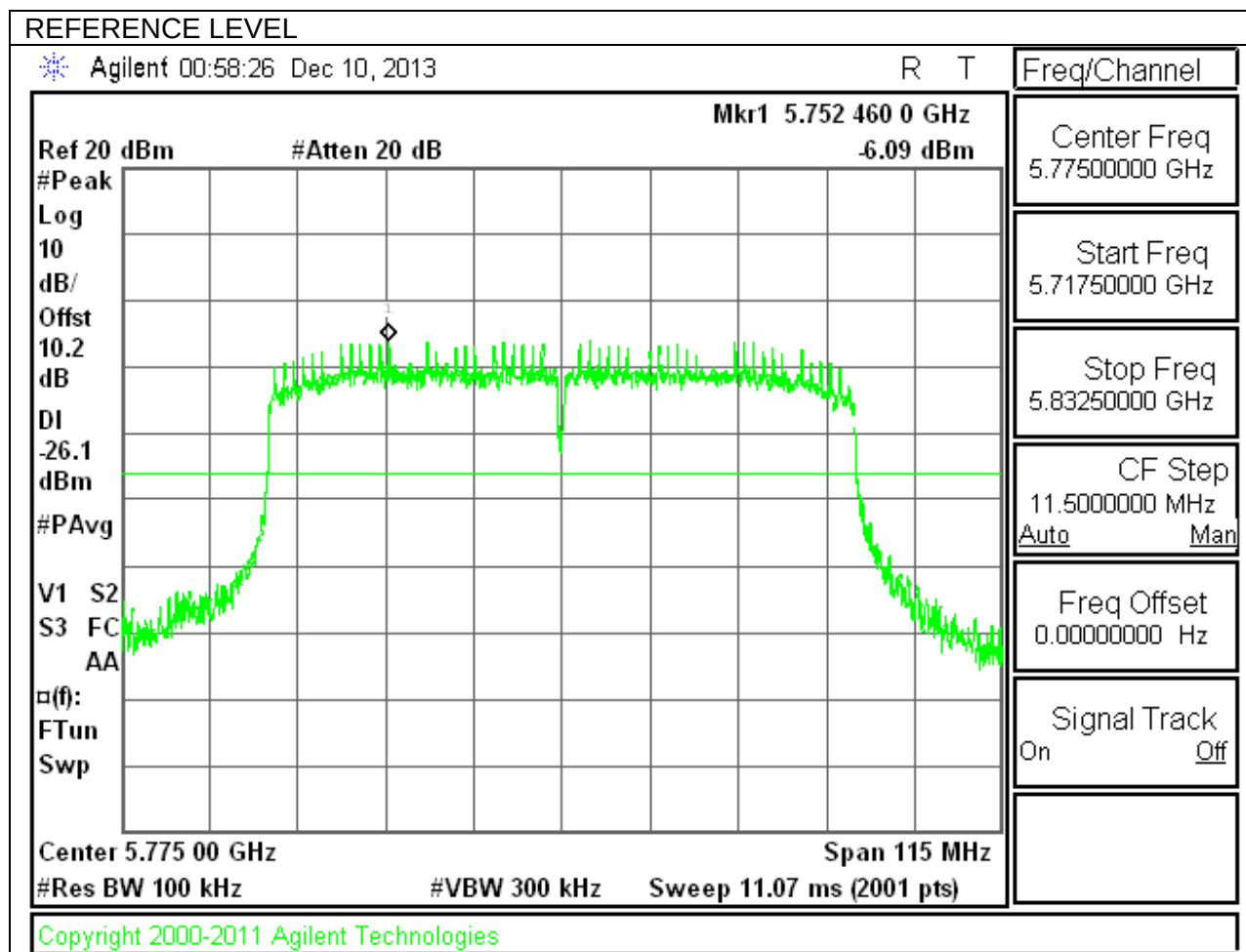
OUT-OF-BAND EMISSIONS



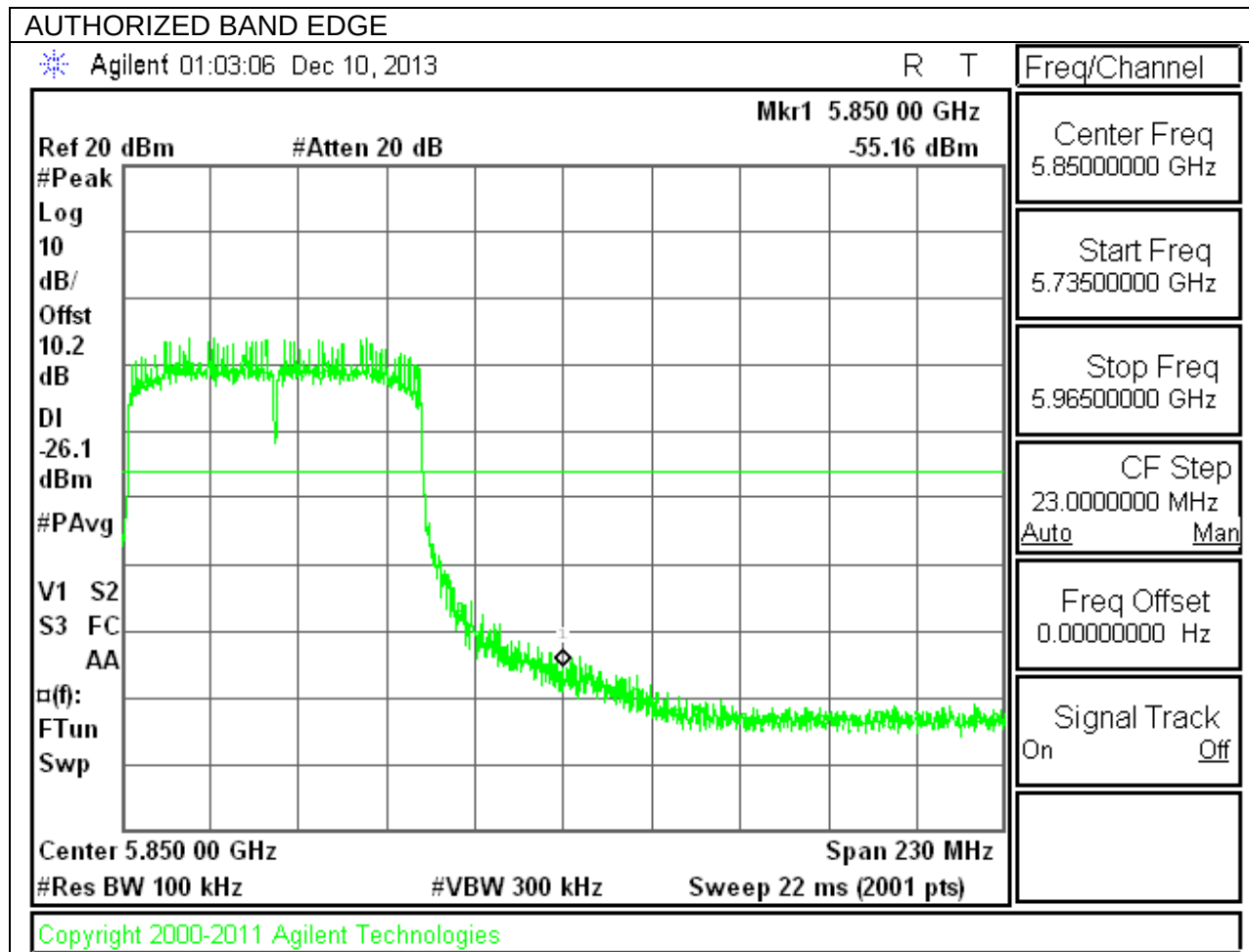


9.6.7. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

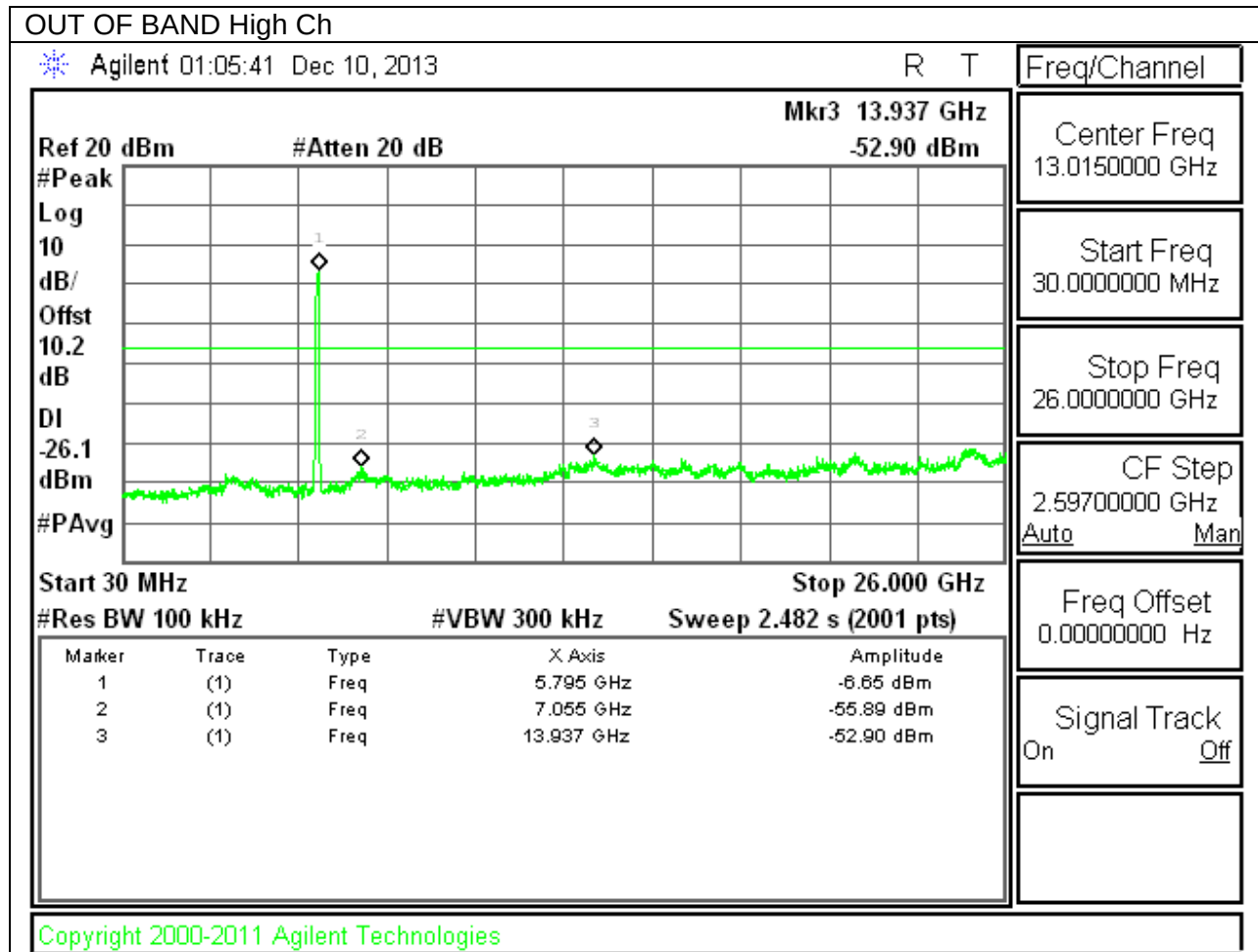
IN-BAND REFERENCE LEVEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS



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.

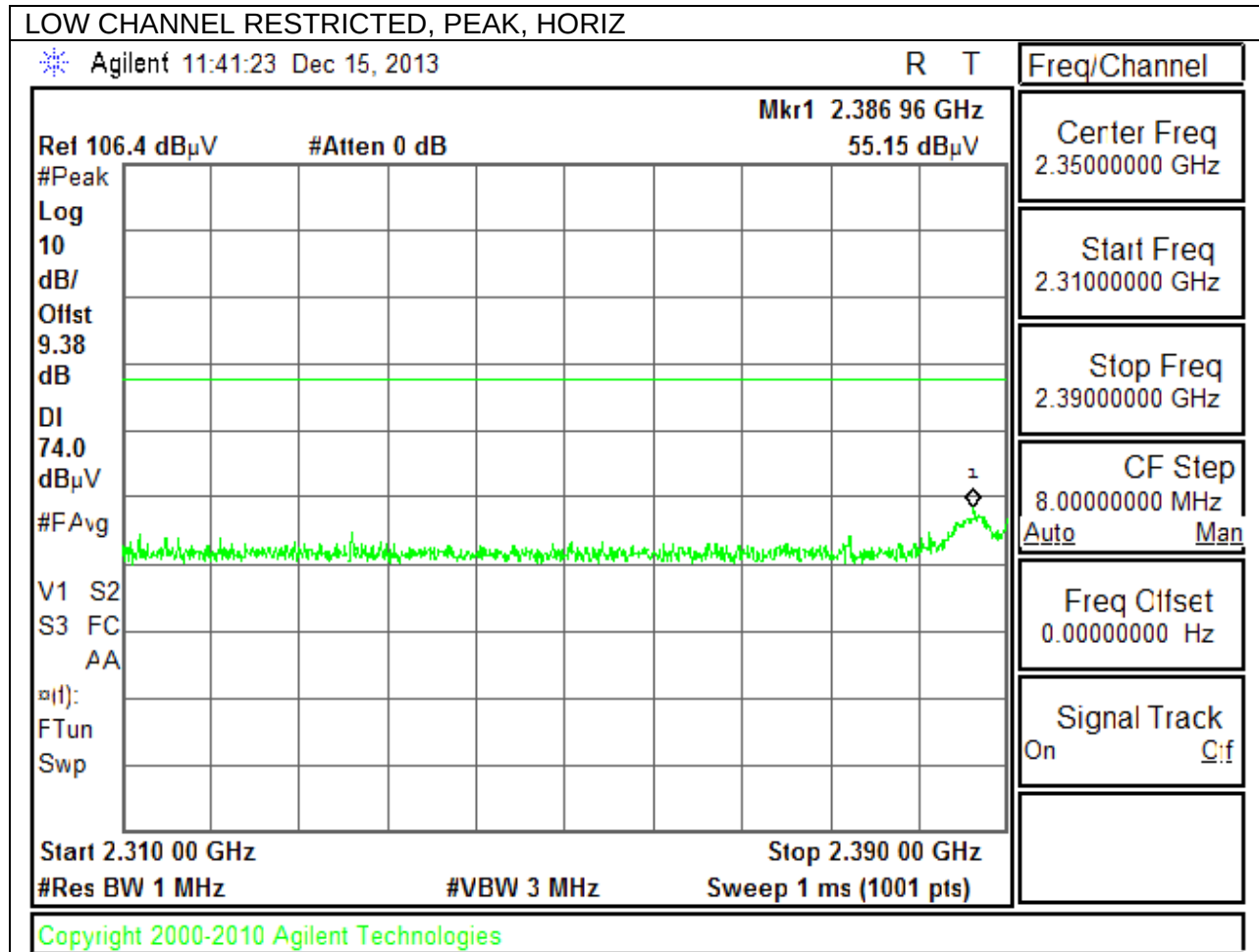
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor= $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0.3dB; N mode = 0.32dB.

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.

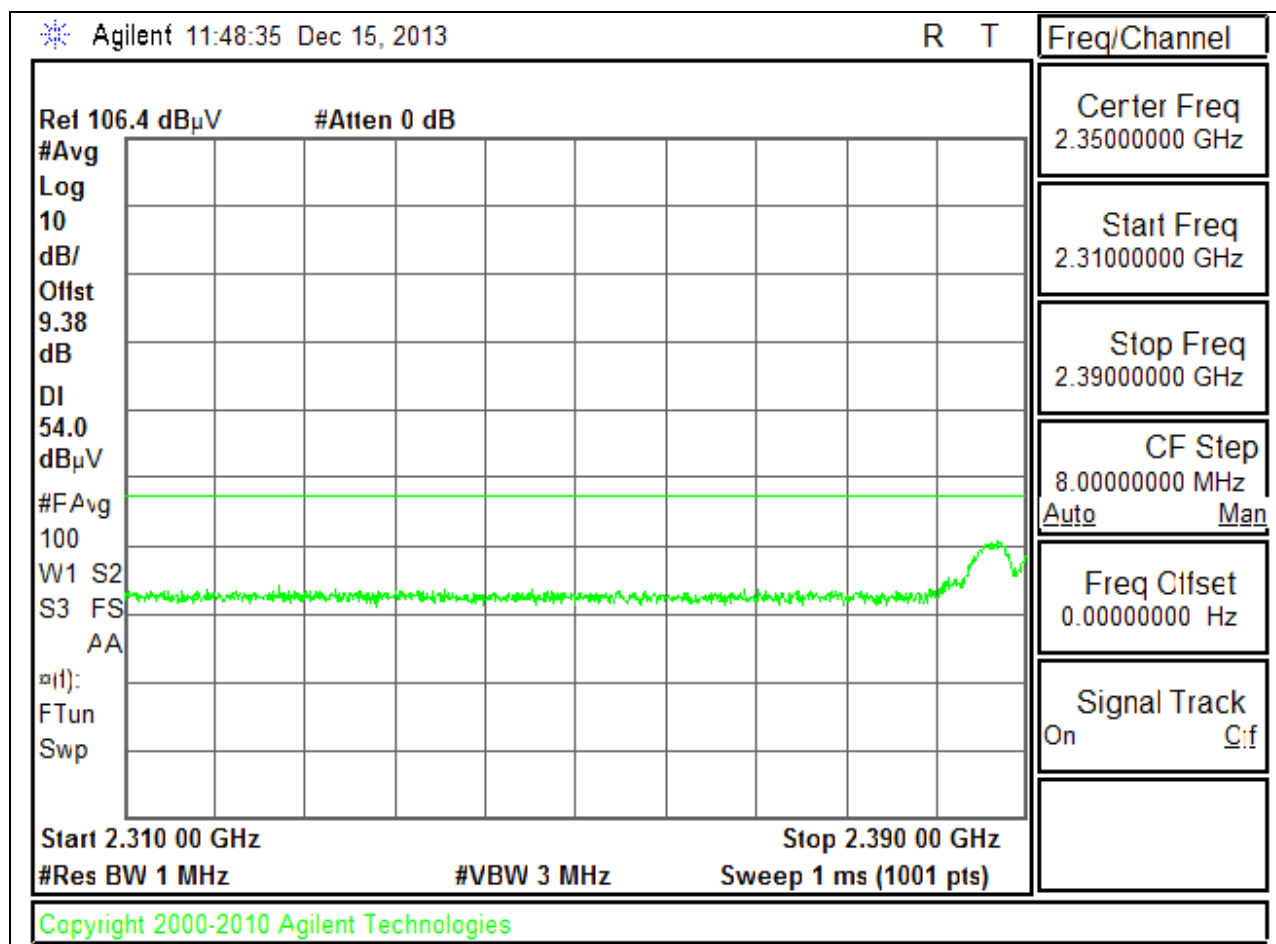
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

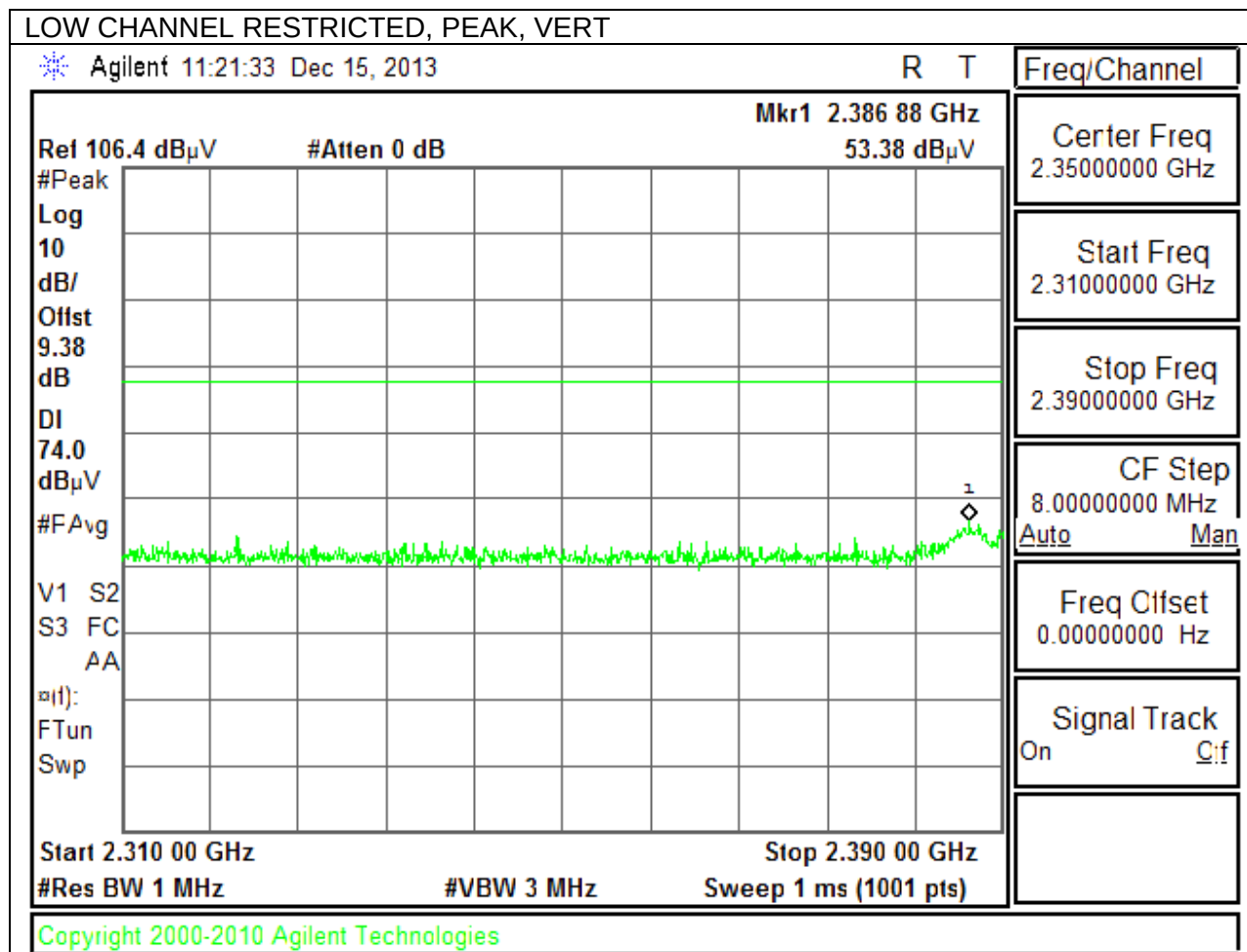
10.2. TRANSMITTER ABOVE 1 GHz

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

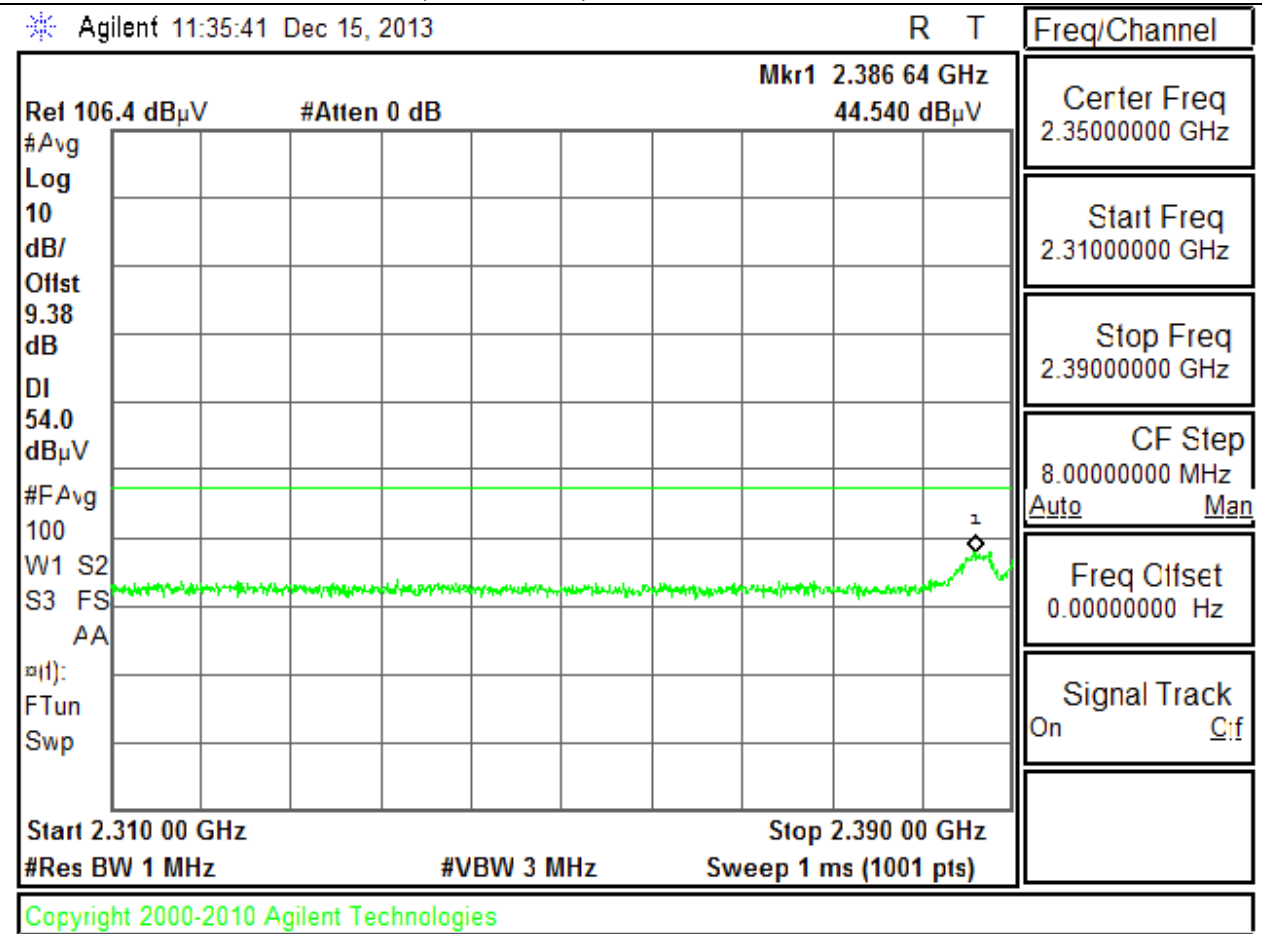


LOW CHANNEL RESTRICTED, AVERAGE, HORIZ

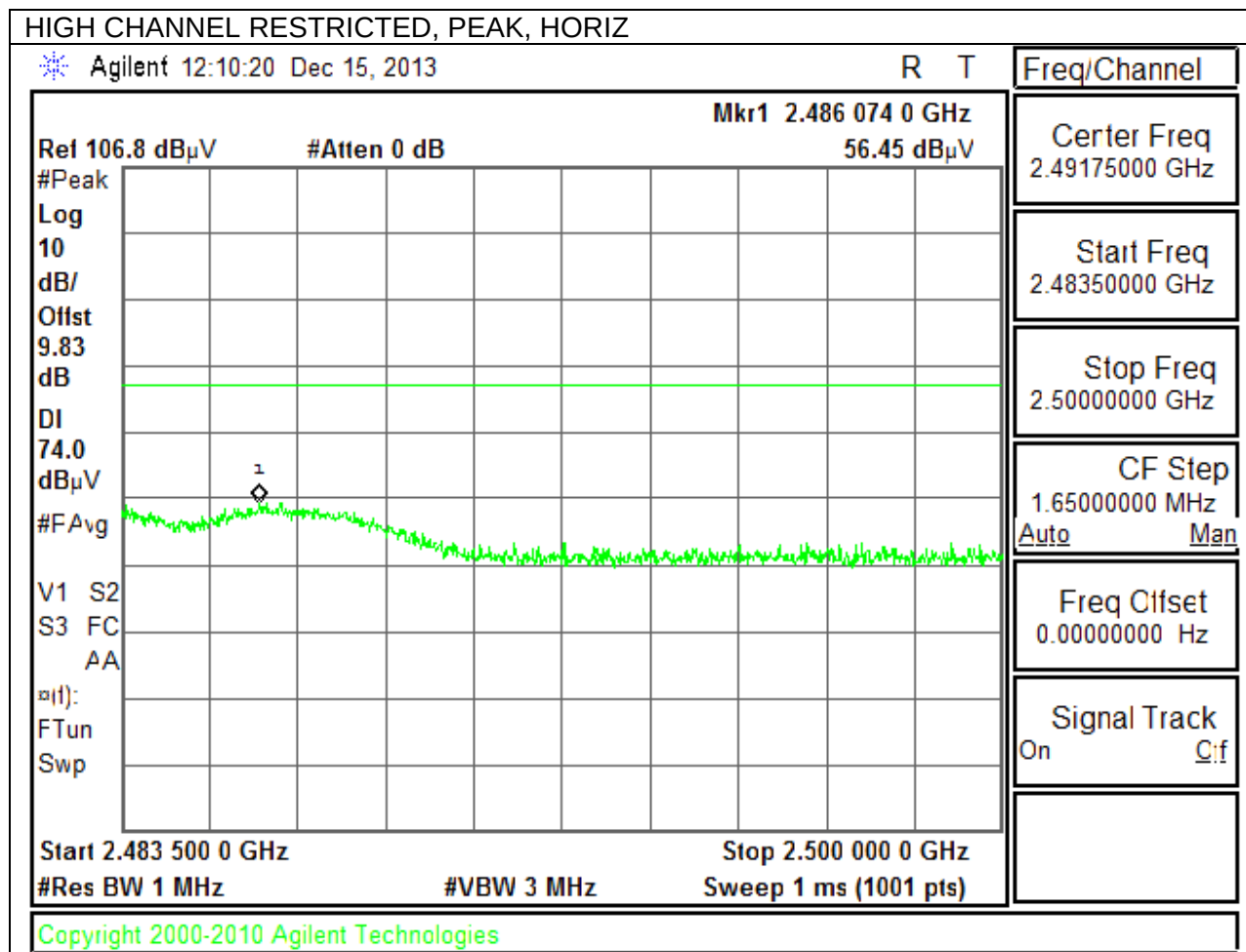




LOW CHANNEL RESTRICTED, AVERAGE, VERT



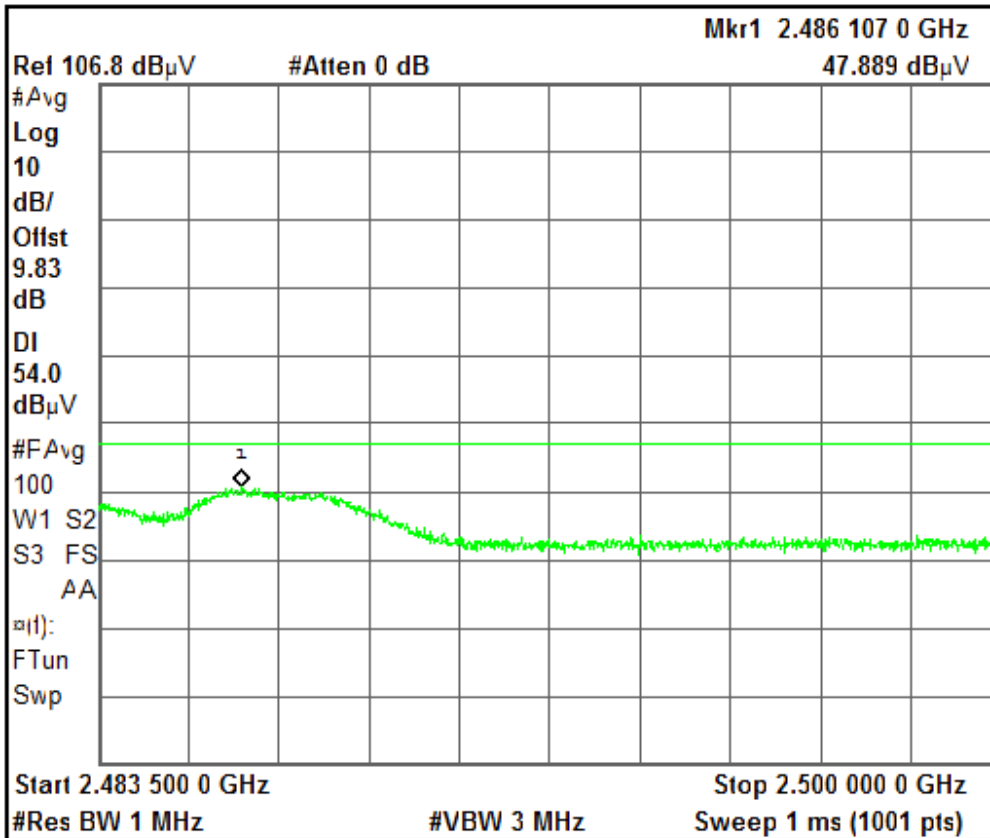
AUTHORIZED BANDEDGE (HIGH CHANNEL)



HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ

Agilent 12:20:08 Dec 15, 2013

R T



Freq/Channel

Center Freq
2.49175000 GHz

Start Freq
2.48350000 GHz

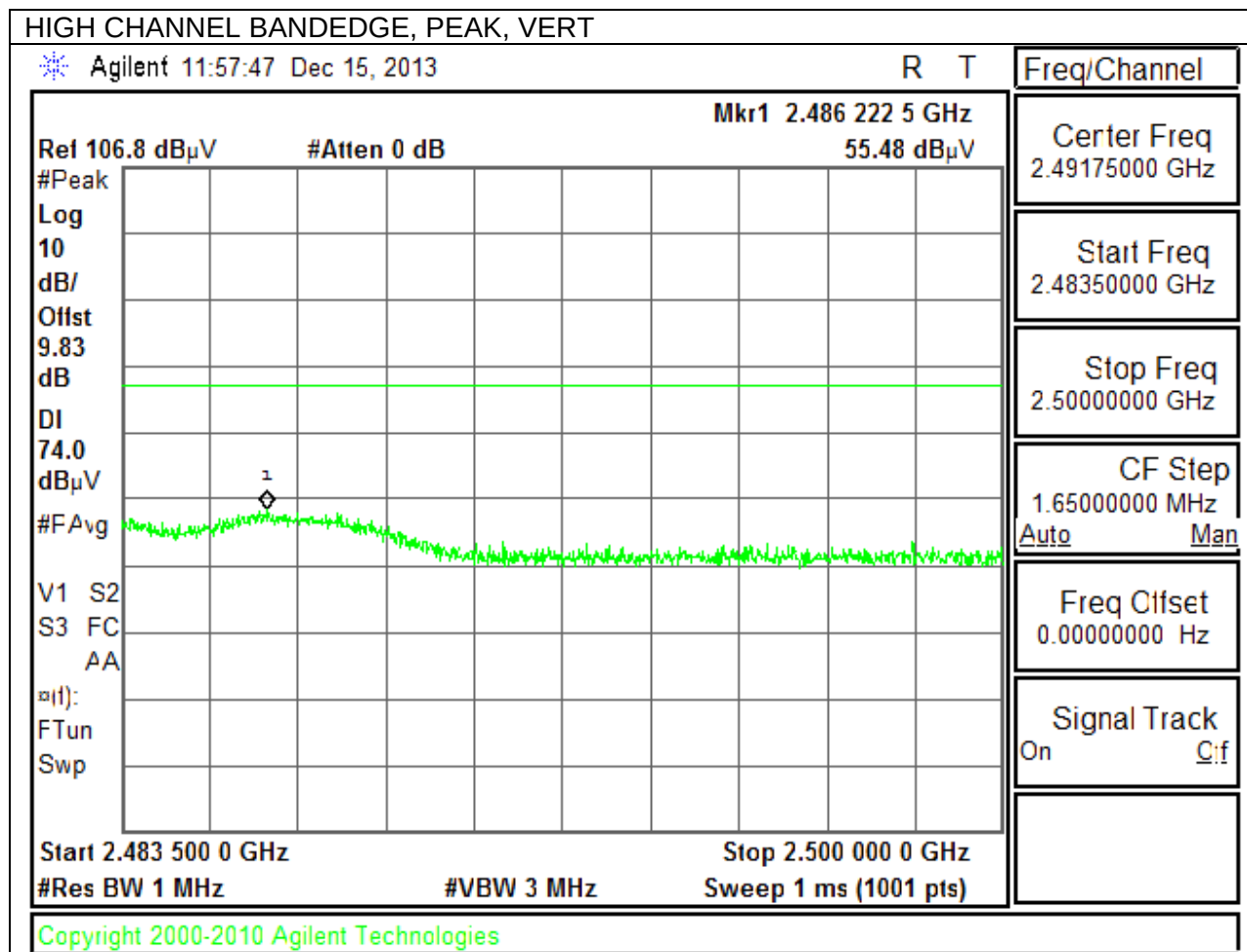
Stop Freq
2.50000000 GHz

CF Step
1.65000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Clf

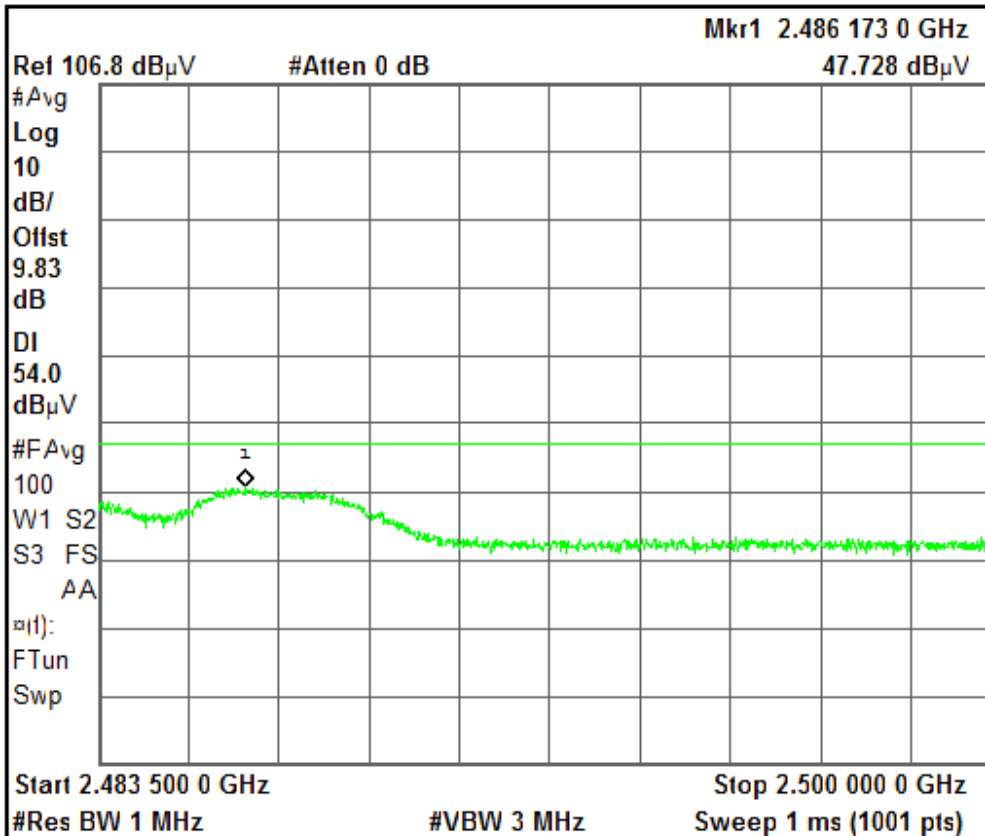
Copyright 2000-2010 Agilent Technologies



HIGH CHANNEL BANDEDGE, AVERAGE, VERT

Agilent 12:05:13 Dec 15, 2013

R T



Freq/Channel

Center Freq
2.49175000 GHz

Start Freq
2.48350000 GHz

Stop Freq
2.50000000 GHz

CF Step
1.65000000 MHz
Auto Man

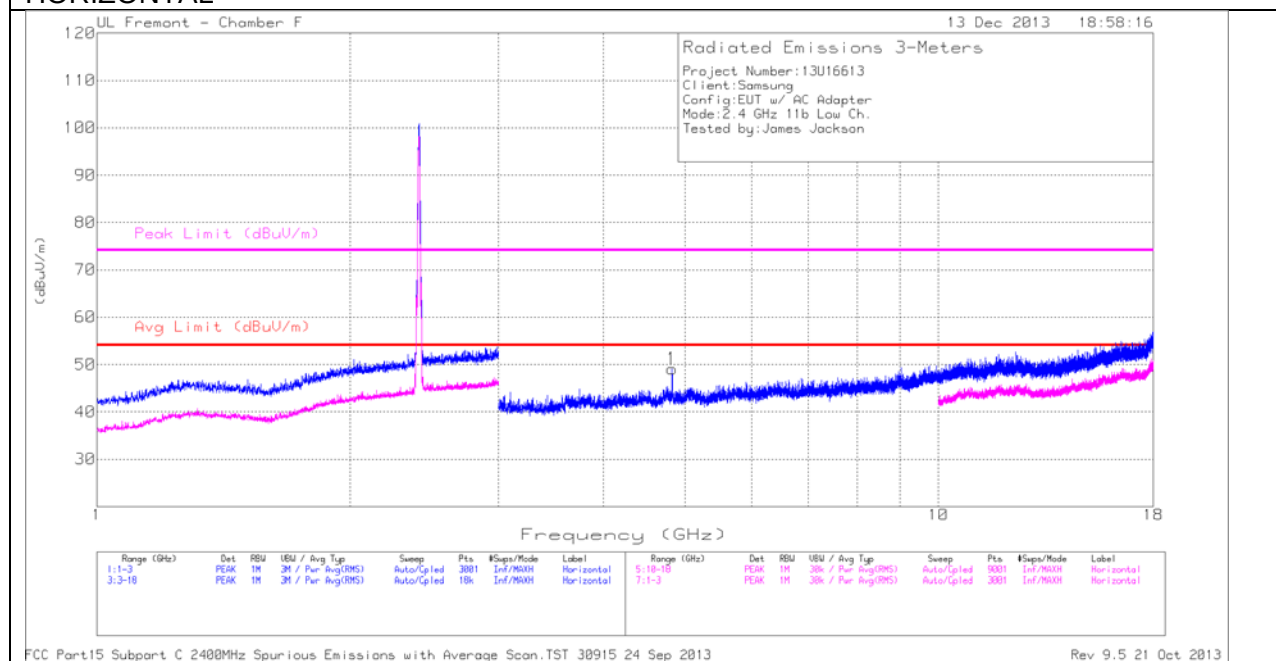
Freq Offset
0.00000000 Hz

Signal Track
On Clf

Copyright 2000-2010 Agilent Technologies

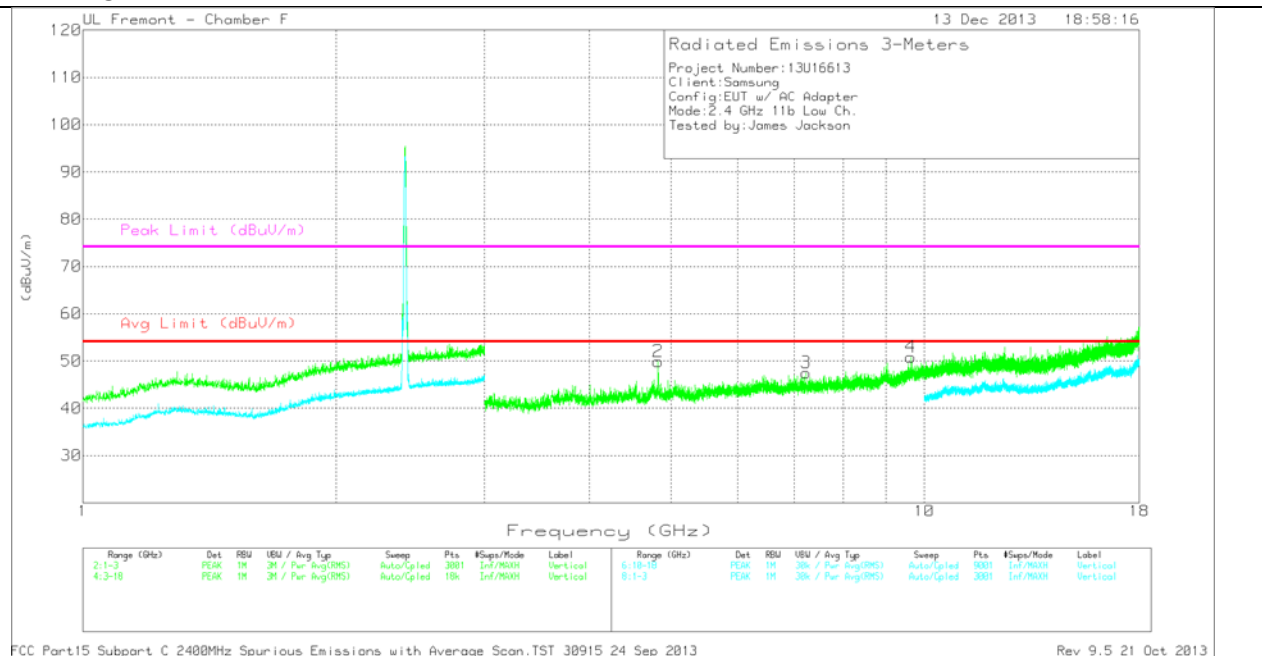
HARMONICS AND SPURIOUS EMISSIONS

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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.825	42.38	PK	34	-27.3	49.08	53.97	-4.89	74	-24.92	0-360	199	H
2	4.825	43.19	PK	34	-27.3	49.89	53.97	-4.08	74	-24.11	0-360	199	V
3	7.236	38.51	PK	35.7	-26.7	47.51	53.97	-6.46	74	-26.49	0-360	199	V
4	9.635	35.83	PK	37.3	-22.3	50.83	53.97	-3.14	74	-23.17	0-360	100	V

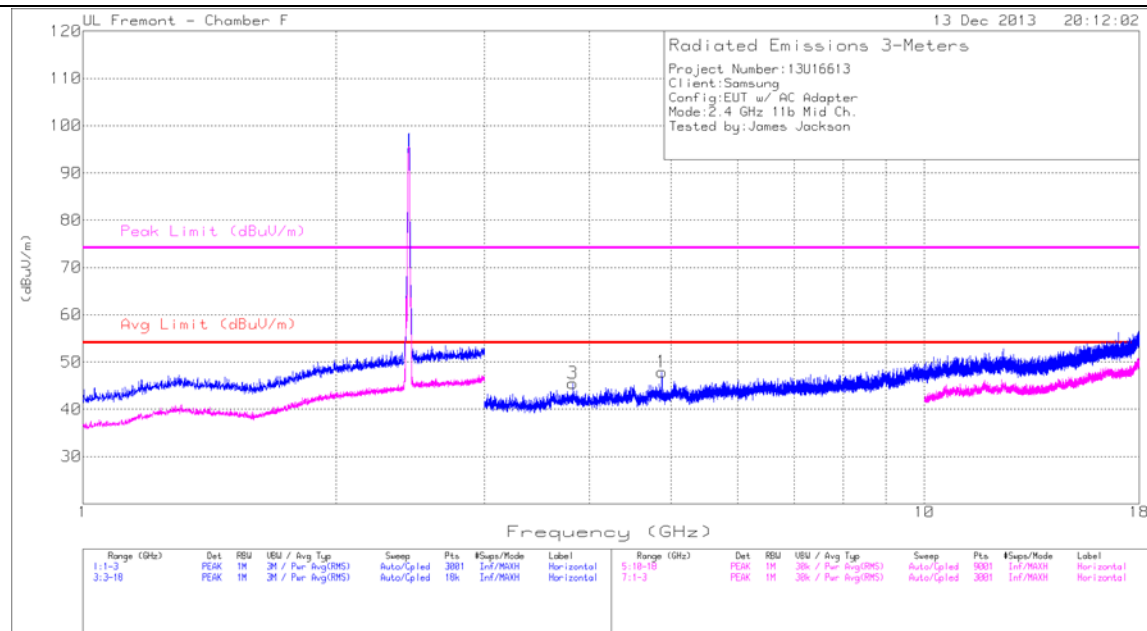
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.824	41.66	MAv1	34	-27.3	48.36	53.97	-5.61	74	-25.64	9	400	H
9.642	24.56	MAv1	37.3	-22.5	39.36	53.97	-14.61	74	-34.64	2	400	V

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

MID CHANNEL HORIZONTAL

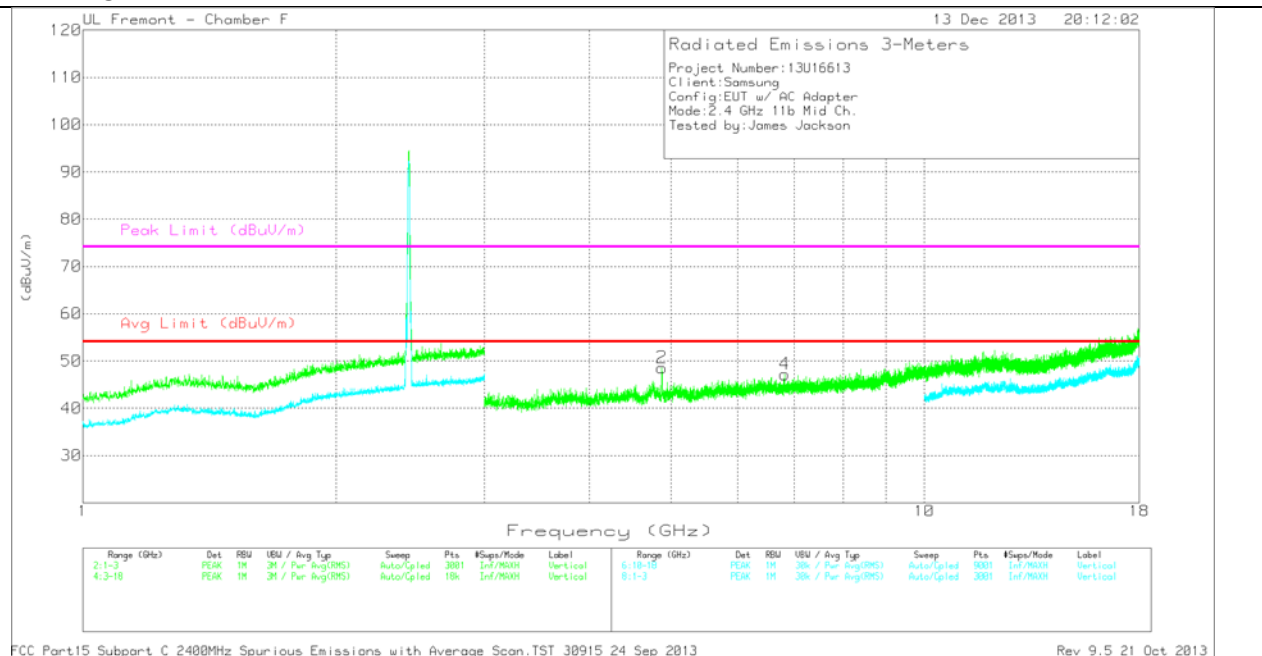


FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013

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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	3.821	40.48	PK	33.6	-28.6	45.48	53.97	-8.49	74	-28.52	0-360	100	H
1	4.875	42.19	PK	34	-28.3	47.89	53.97	-6.08	74	-26.11	0-360	100	H
2	4.875	42.87	PK	34	-28.3	48.57	53.97	-5.4	74	-25.43	0-360	101	V
4	6.827	38.59	PK	35.7	-27.1	47.19	53.97	-6.78	74	-26.81	0-360	101	V

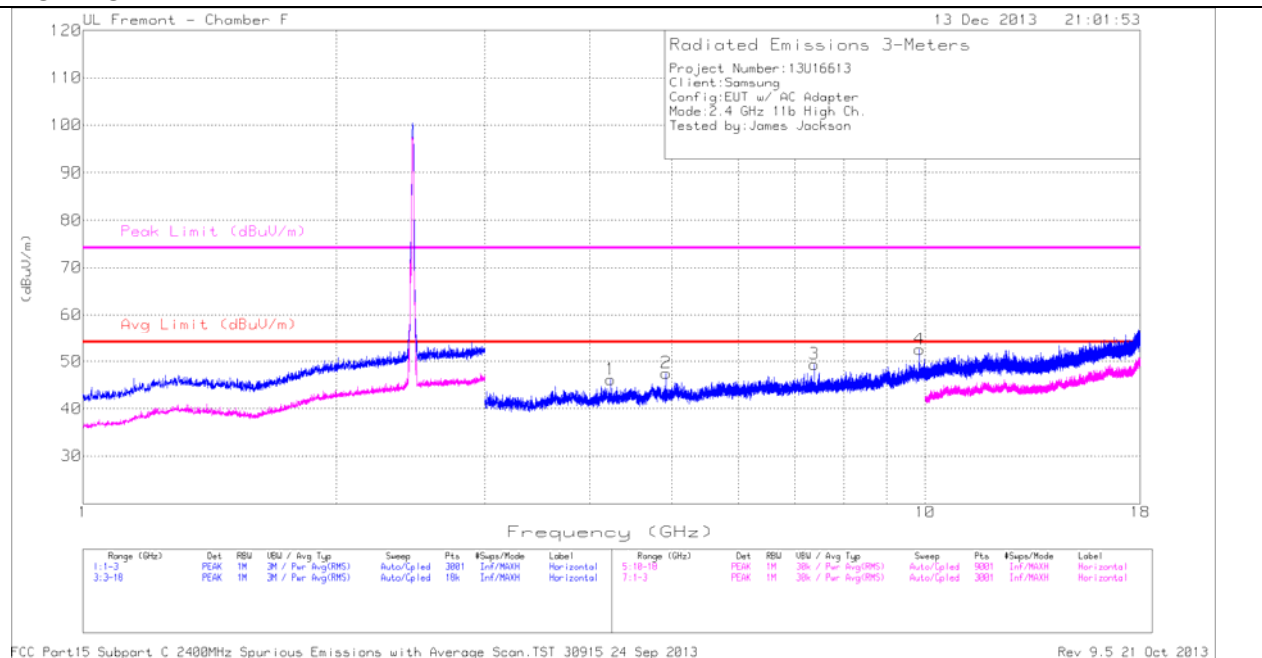
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.874	39.34	MAv1	34	-28.3	45.04	53.97	-8.93	74	-28.96	290	382	V

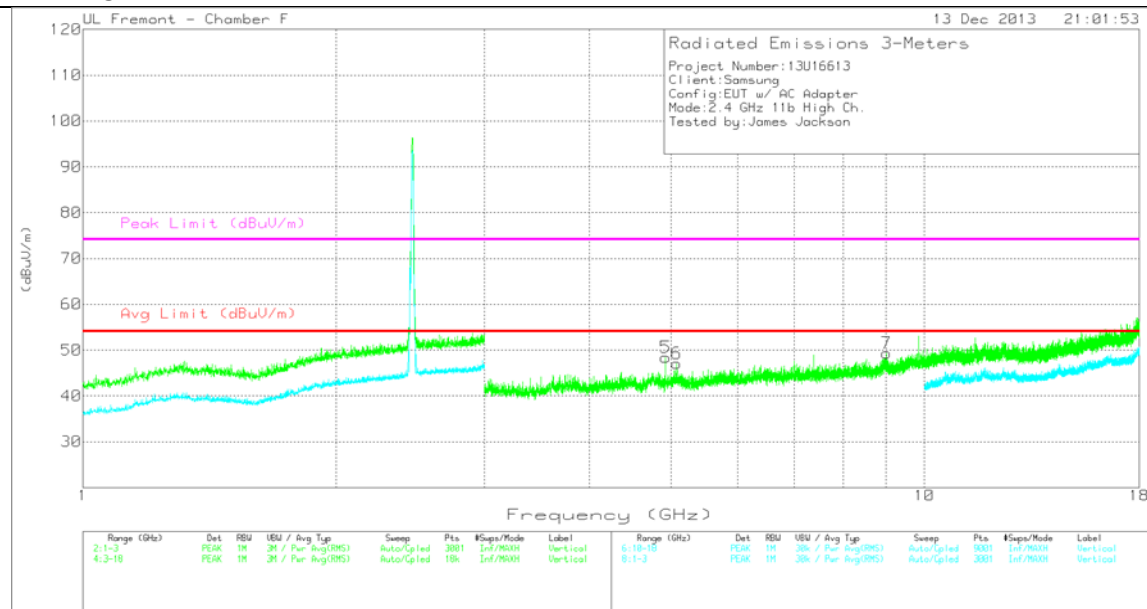
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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.

HIGH CHANNEL DATA

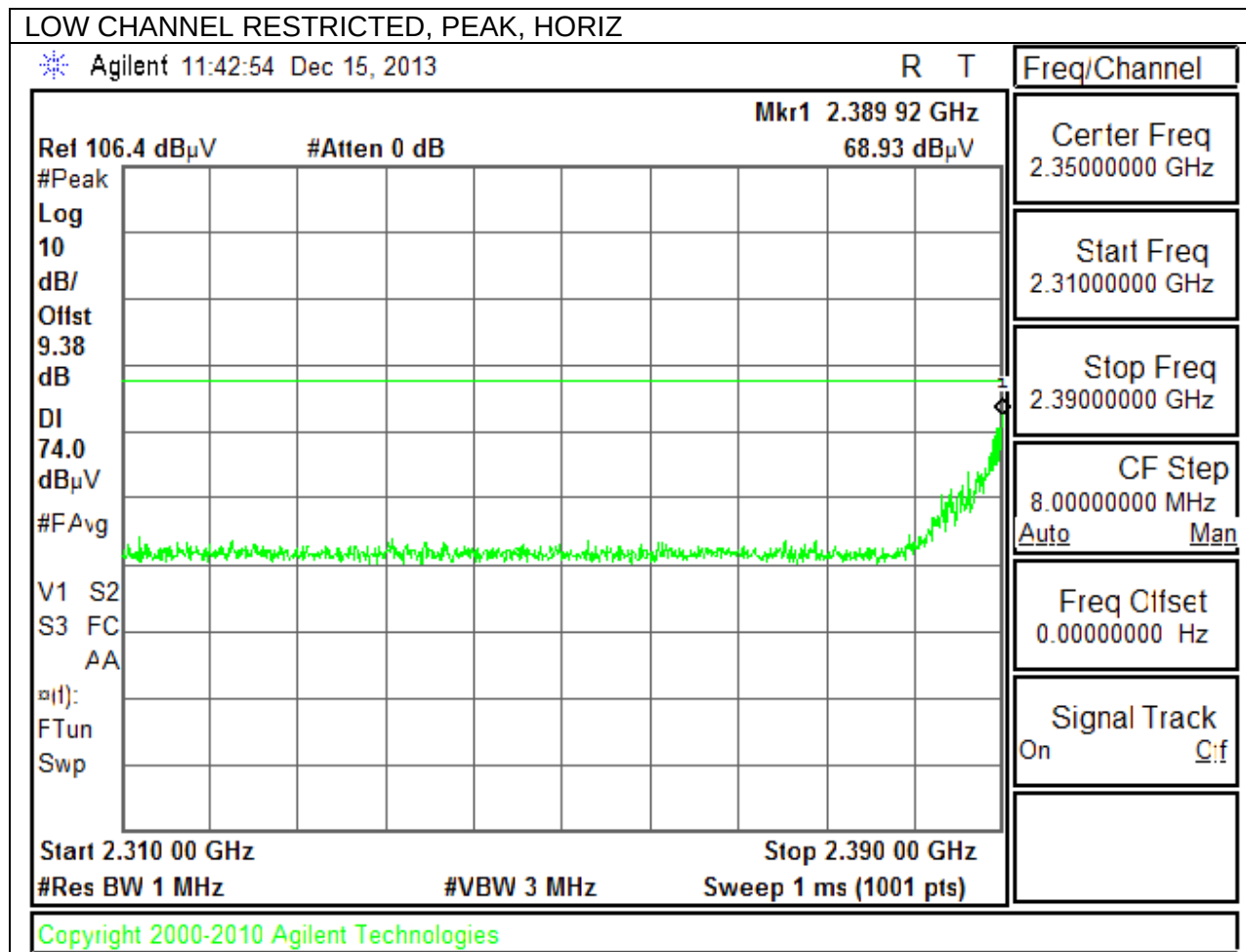
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.232	41.53	PK	33.4	-28.8	46.13	53.97	-7.84	74	-27.87	0-360	100	H
2	4.925	42.43	PK	34	-28.9	47.53	53.97	-6.44	74	-26.47	0-360	199	H
5	4.925	43.32	PK	34	-28.9	48.42	53.97	-5.55	74	-25.58	0-360	101	V
6	5.075	40.19	PK	34.1	-27.2	47.09	53.97	-6.88	74	-26.91	0-360	101	V
3	7.386	39.79	PK	35.7	-26.1	49.39	53.97	-4.58	74	-24.61	0-360	100	H
7	9.017	35.83	PK	36.4	-22.9	49.33	53.97	-4.64	74	-24.67	0-360	101	V
4	9.848	37.85	PK	37.6	-22.9	52.55	53.97	-1.42	74	-21.45	0-360	199	H

PK - Peak detector

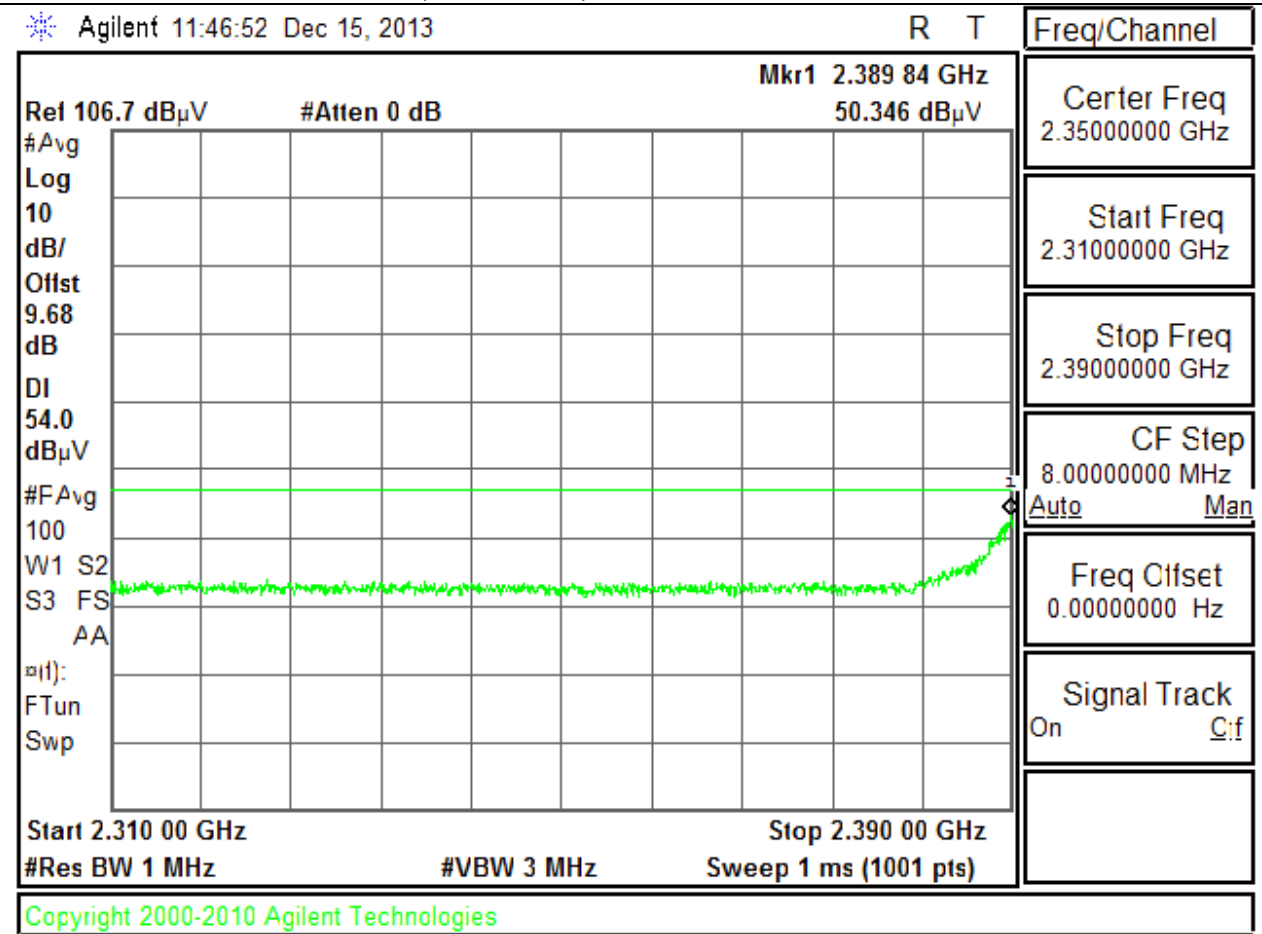
Radiated Emissions

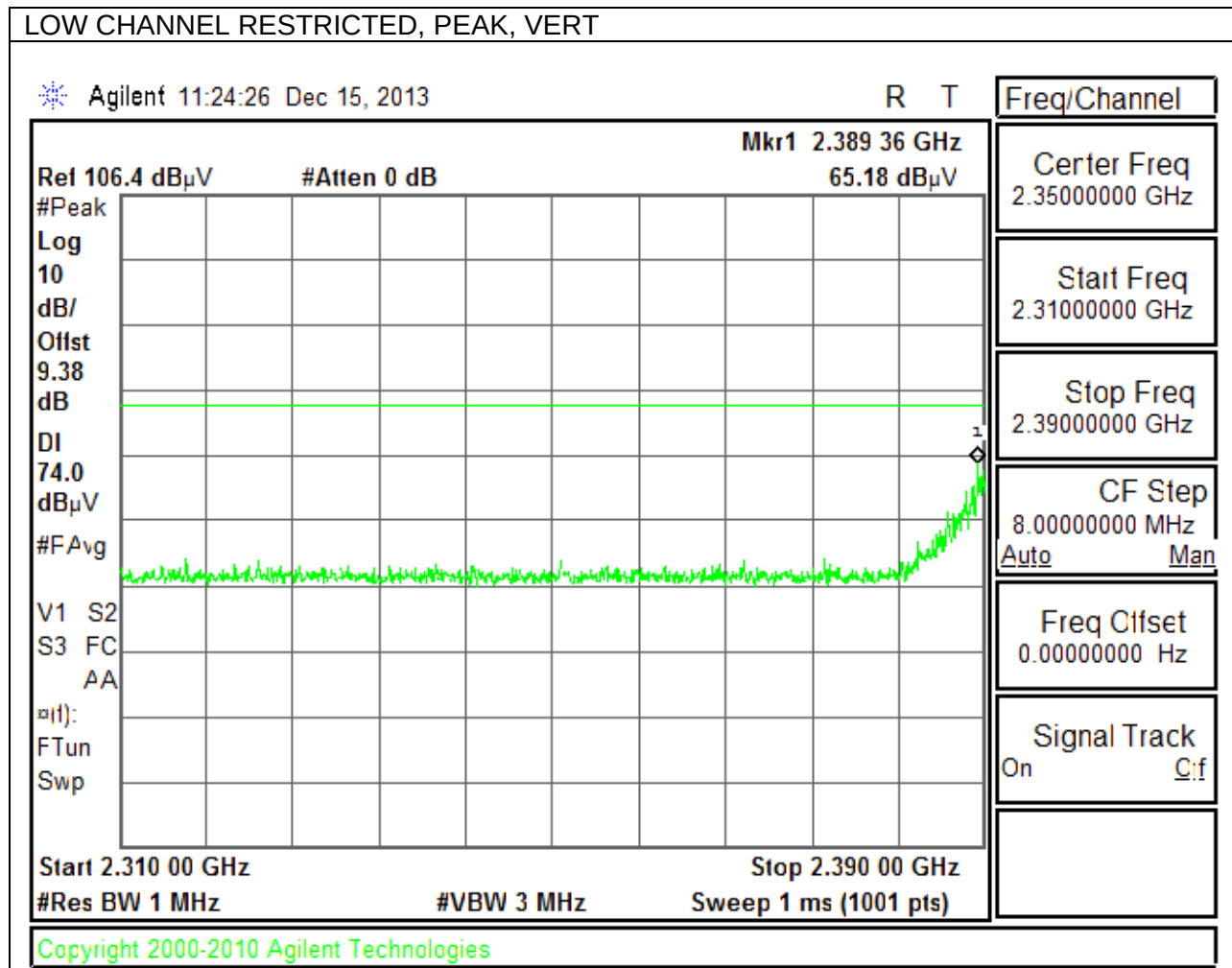
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.924	37.58	MAv1	34	-28.8	42.78	53.97	-11.19	74	-31.22	29	211	V
7.385	33	MAv1	35.7	-26.1	42.6	53.97	-11.37	74	-31.4	207	157	H
9.018	25.39	MAv1	36.4	-22.9	38.89	53.97	-15.08	74	-35.11	100	166	H
9.848	36.27	MAv1	37.6	-22.9	50.97	53.97	-3	74	-23.03	12	101	H

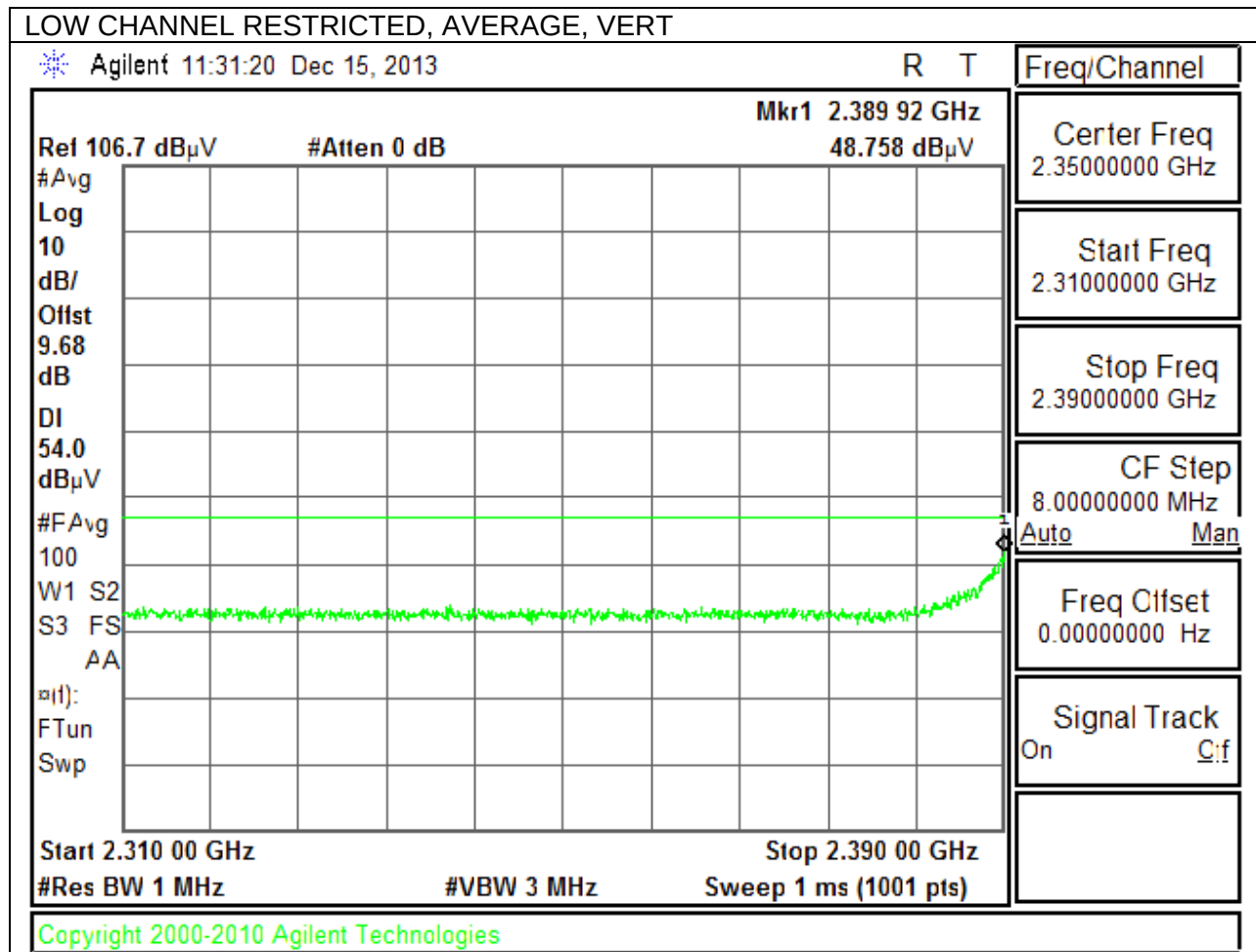
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



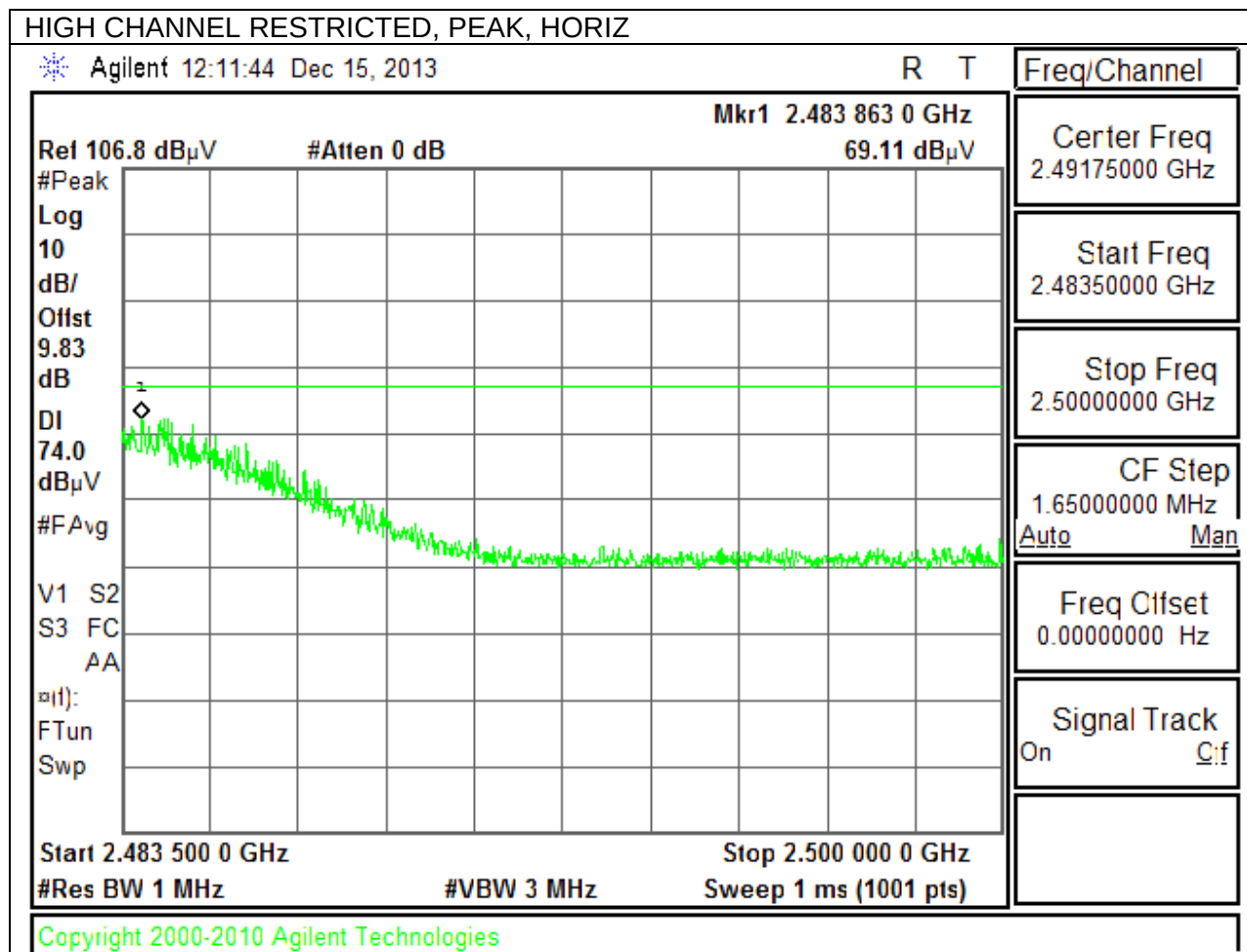
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ

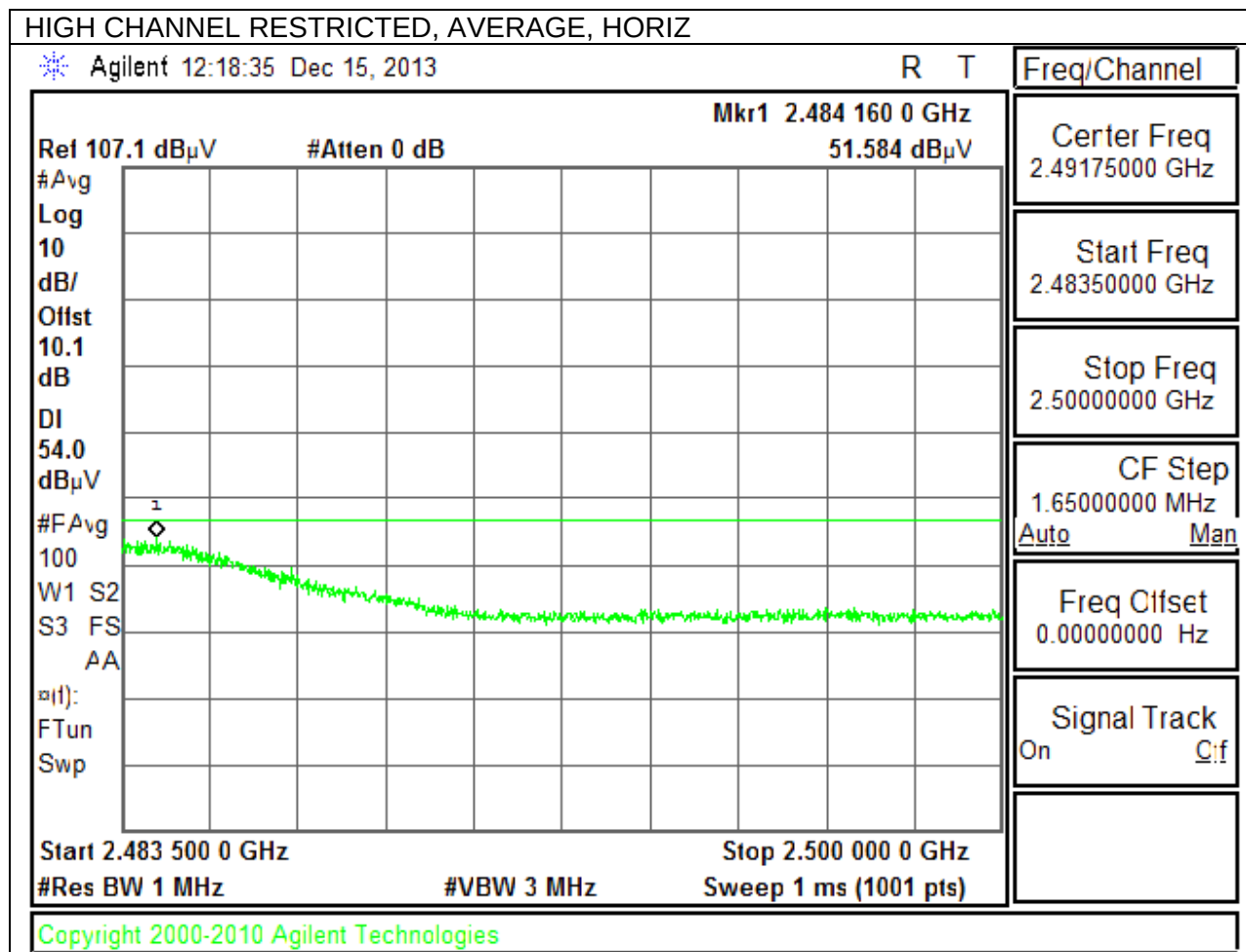


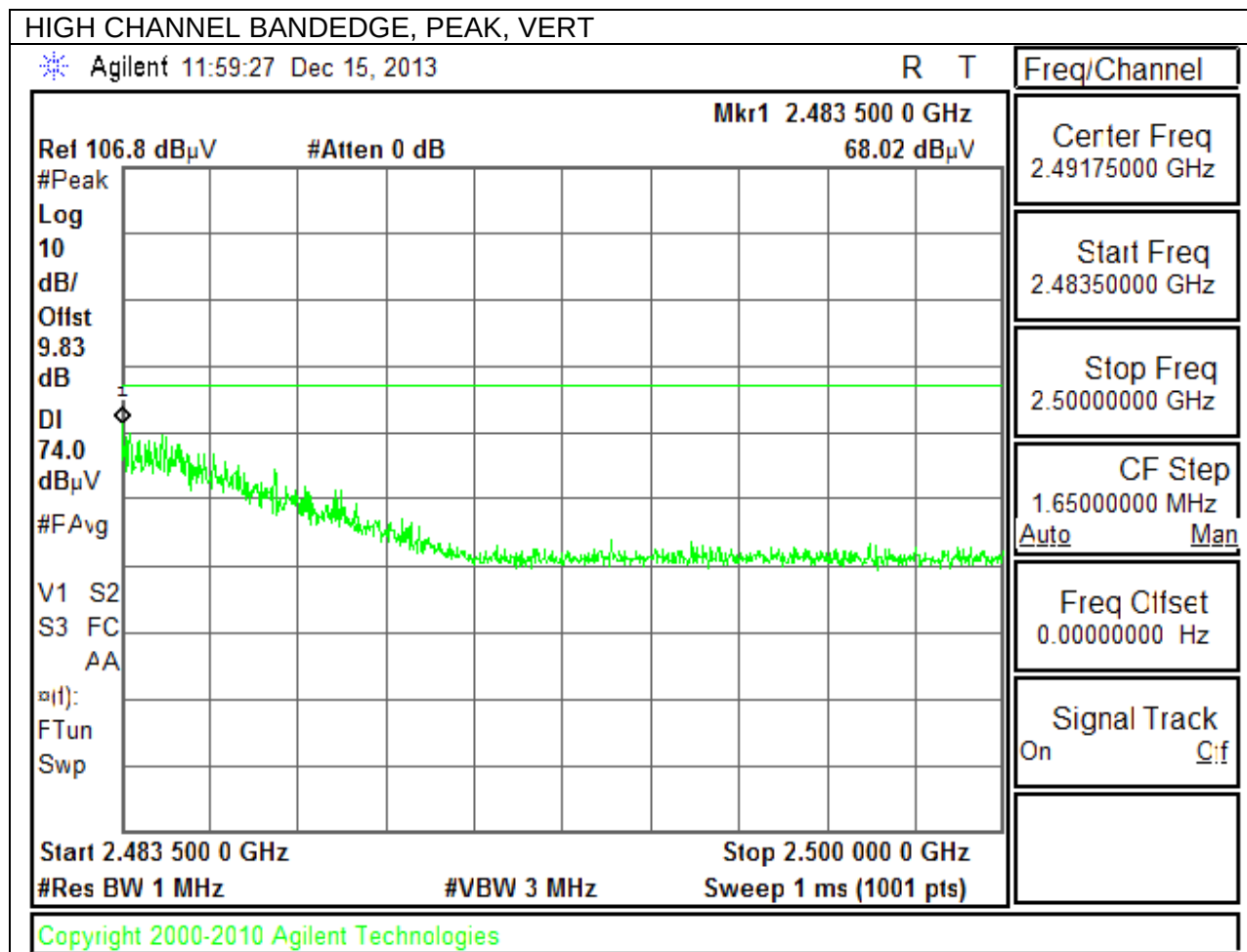




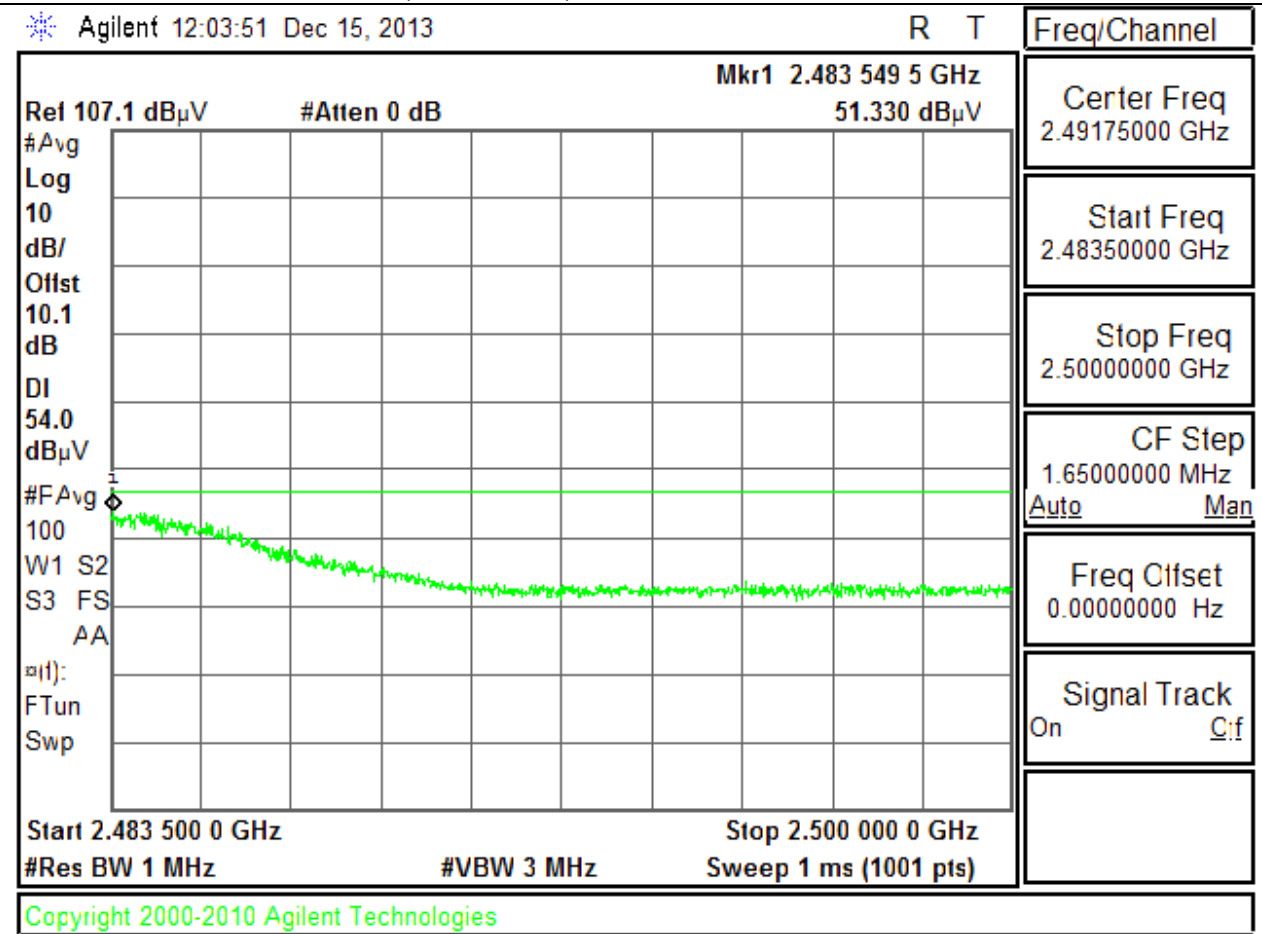
AUTHORIZED BANDEDGE (HIGH CHANNEL)





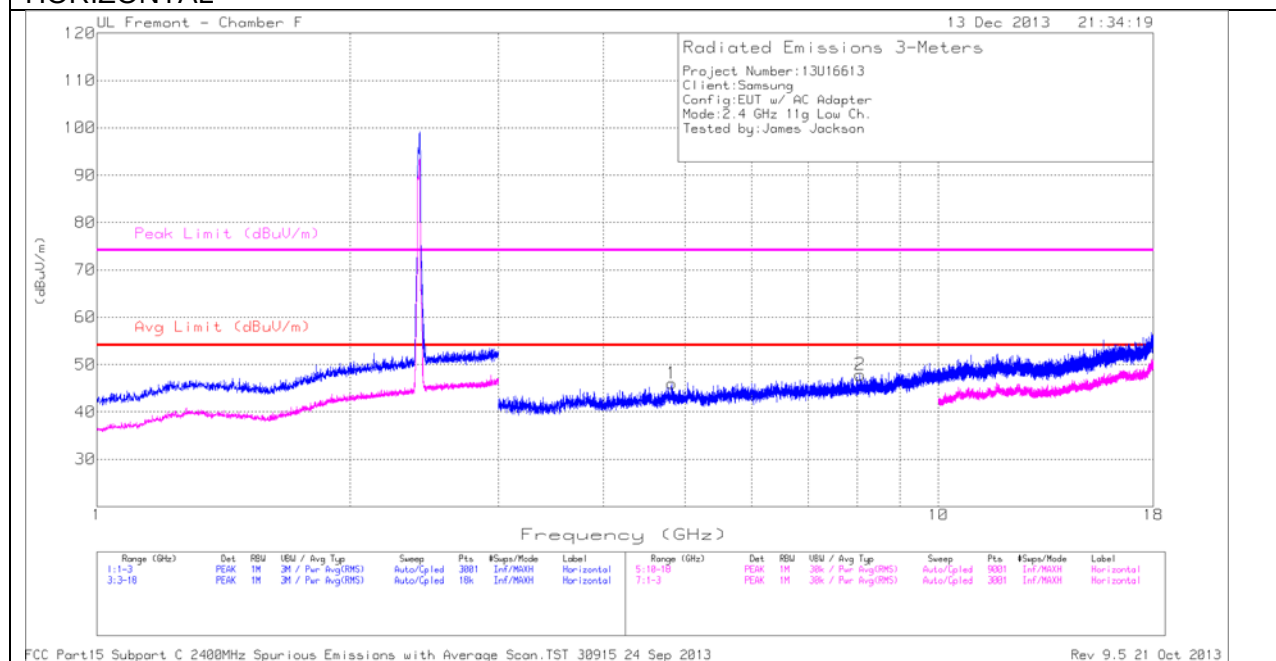


HIGH CHANNEL BANDEDGE, AVERAGE, VERT



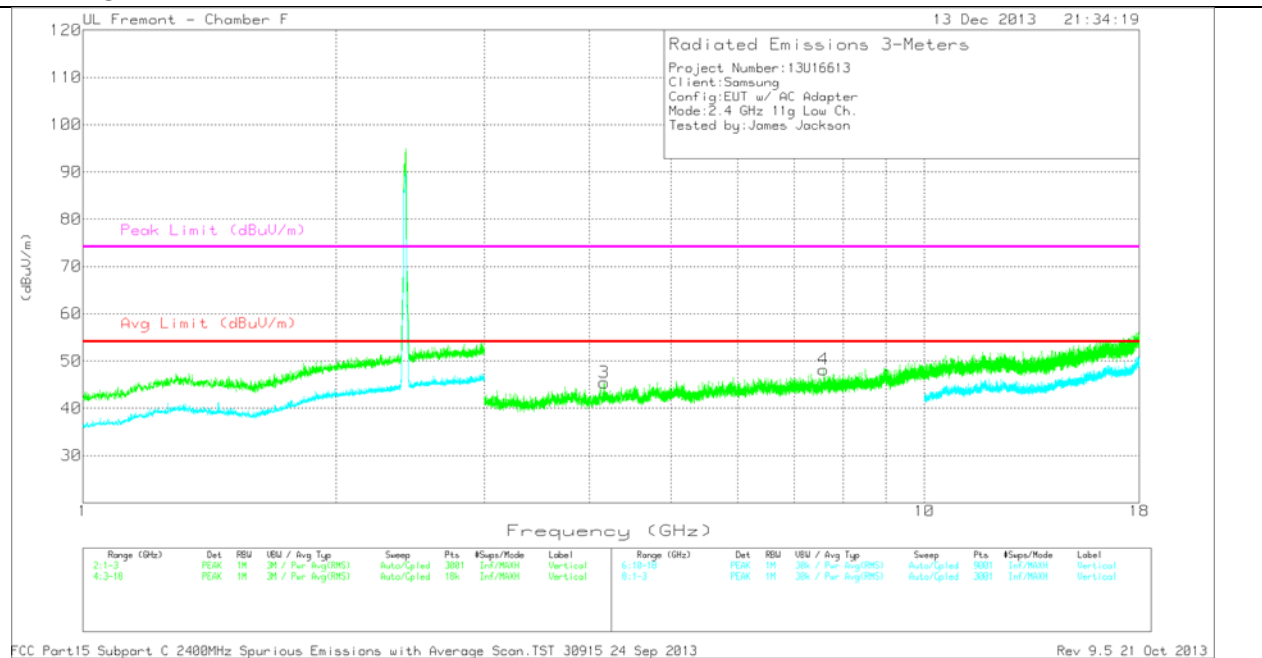
HARMONICS AND SPURIOUS EMISSIONS

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

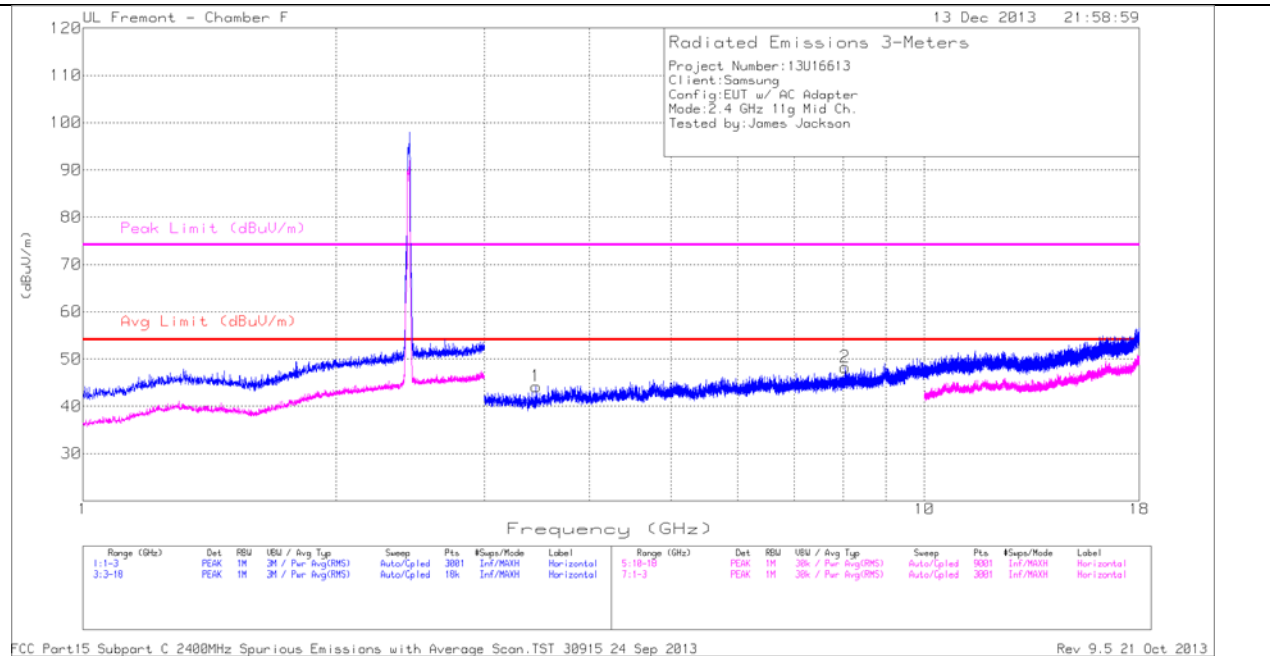
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	4.162	40.63	PK	33.4	-28.6	45.43	53.97	-8.54	74	-28.57	0-360	201	V
1	4.823	39.34	PK	34	-27.3	46.04	53.97	-7.93	74	-27.96	0-360	100	H
4	7.588	38.58	PK	35.9	-26.3	48.18	53.97	-5.79	74	-25.82	0-360	101	V
2	8.068	37.05	PK	36	-25.2	47.85	53.97	-6.12	74	-26.15	0-360	100	H

PK - Peak detector

Radiated Emissions

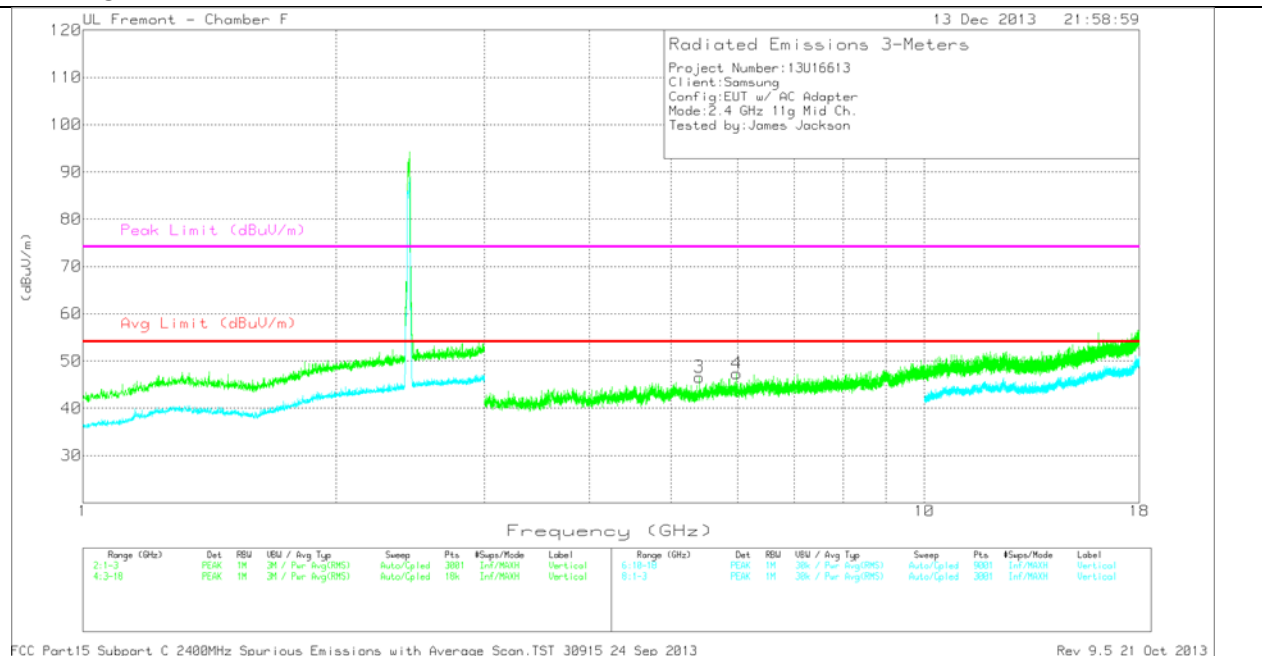
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.594	27.29	MAV1	35.9	-26.3	36.89	53.97	-17.08	74	-37.11	98	397	V

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.

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

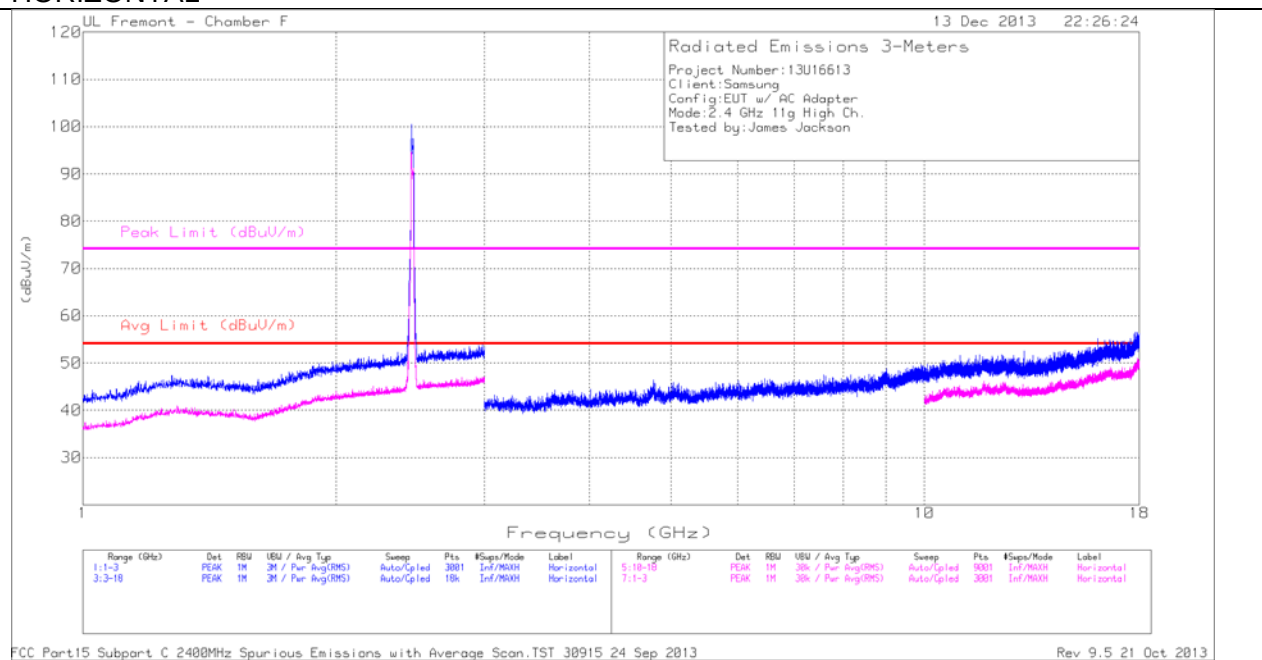
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C b1/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.457	40.11	PK	33.1	-29	44.21	53.97	-9.76	74	-29.79	0-360	199	H
3	5.402	39.88	PK	34.6	-27.9	46.58	53.97	-7.39	74	-27.42	0-360	200	V
4	5.982	39.63	PK	35.3	-27.6	47.33	53.97	-6.64	74	-26.67	0-360	101	V
2	8.047	37.33	PK	36	-25.1	48.23	53.97	-5.74	74	-25.77	0-360	100	H

PK - Peak detector

Radiated Emissions

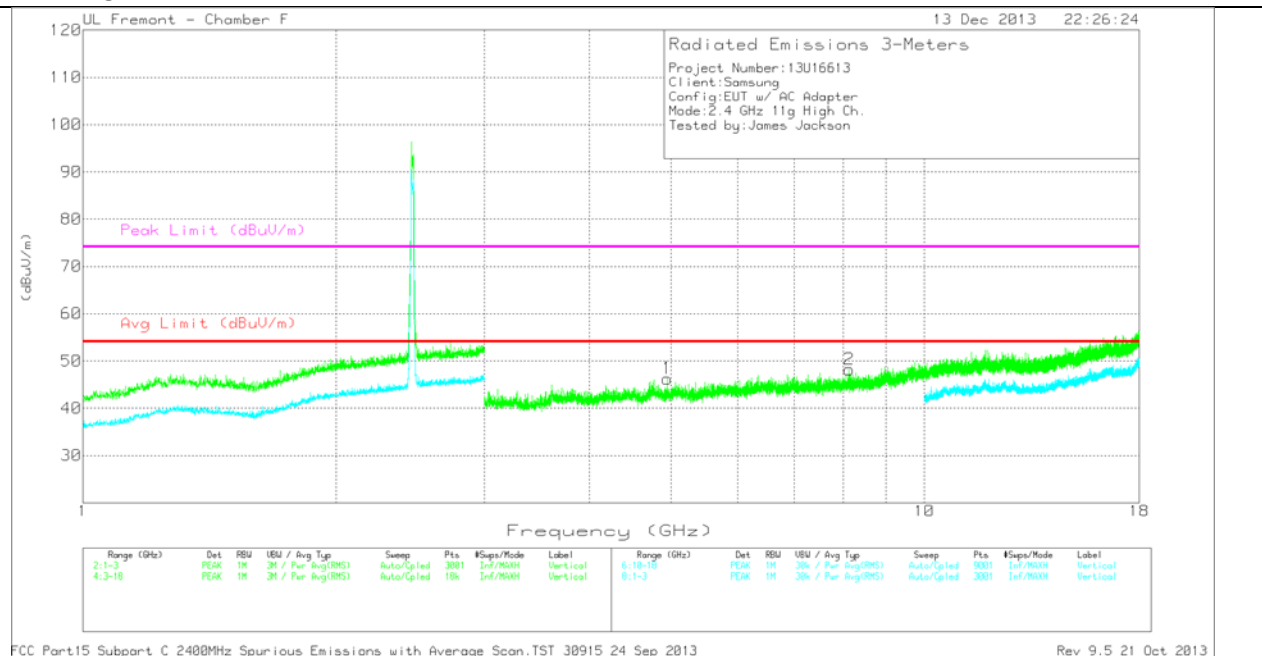
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb1/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.044	26.21	MAv1	36	-25.1	37.11	53.97	-16.86	74	-36.89	312	189	H

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

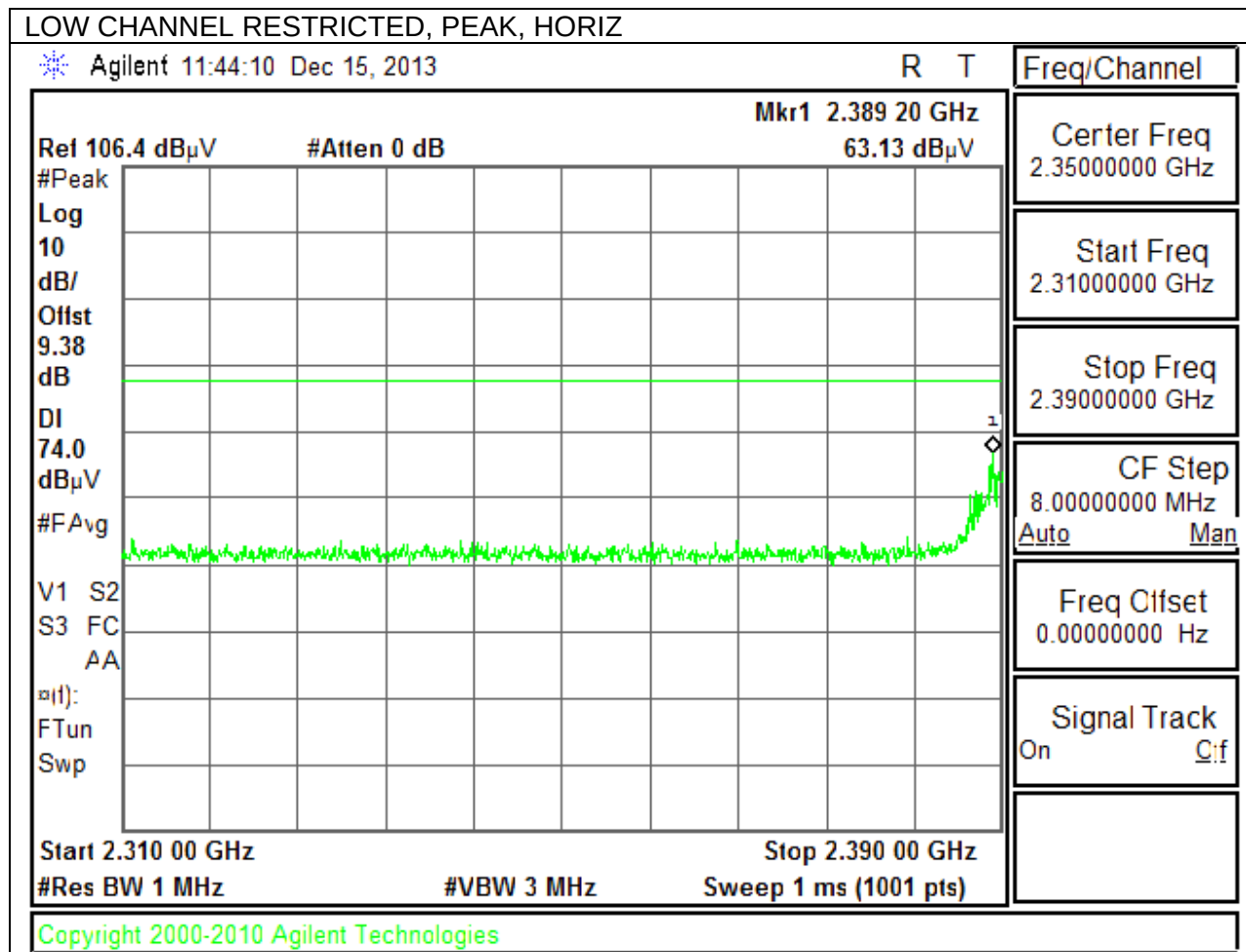
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.946	41.15	PK	34	-28.9	46.25	53.97	-7.72	74	-27.75	0-360	201	V
2	8.138	37.81	PK	36	-25.6	48.21	53.97	-5.76	74	-25.79	0-360	101	V

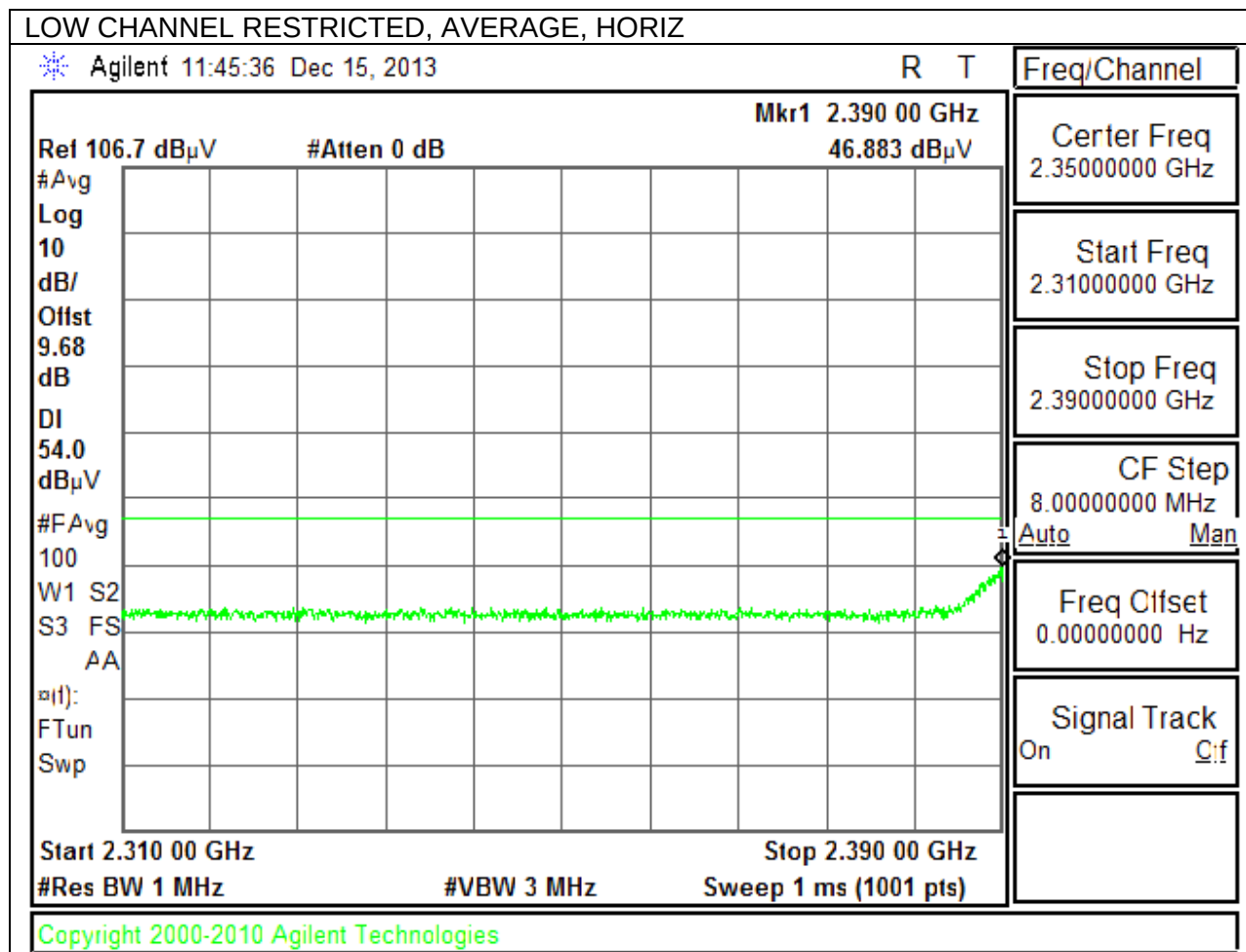
PK - Peak detector

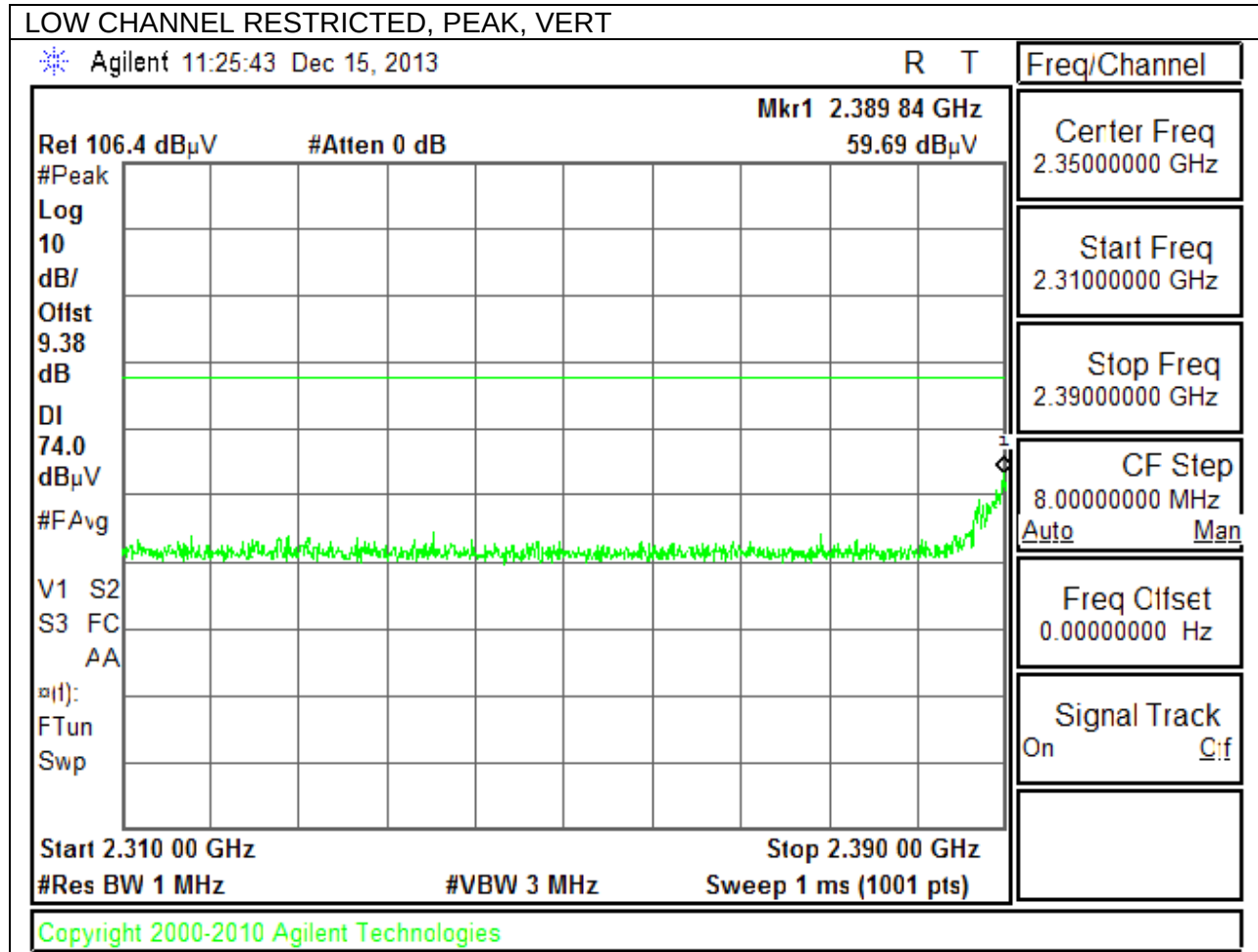
Radiated Emissions

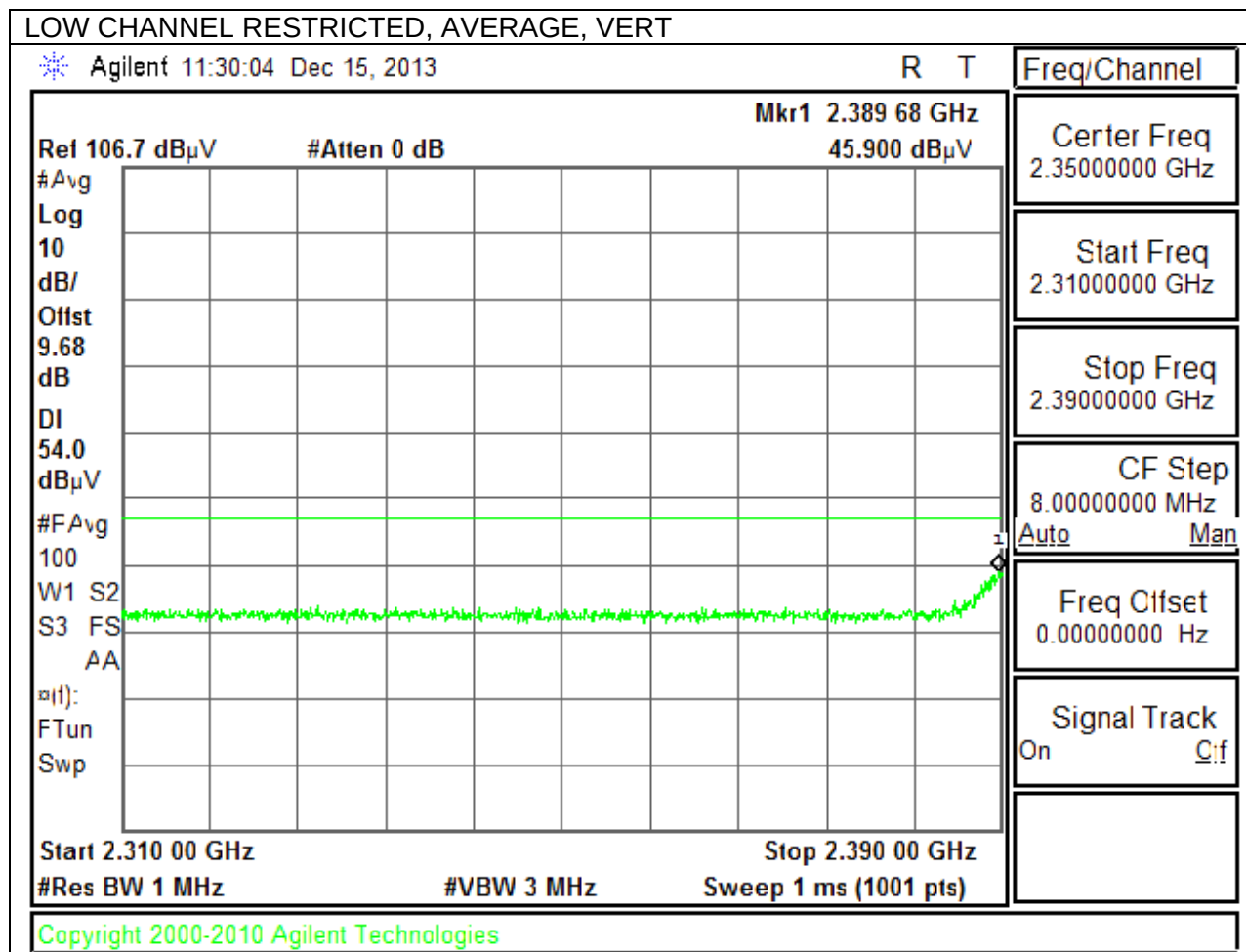
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/CbI/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.142	26.75	MAv1	36	-25.6	37.15	53.97	-16.82	74	-36.85	248	140	V

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

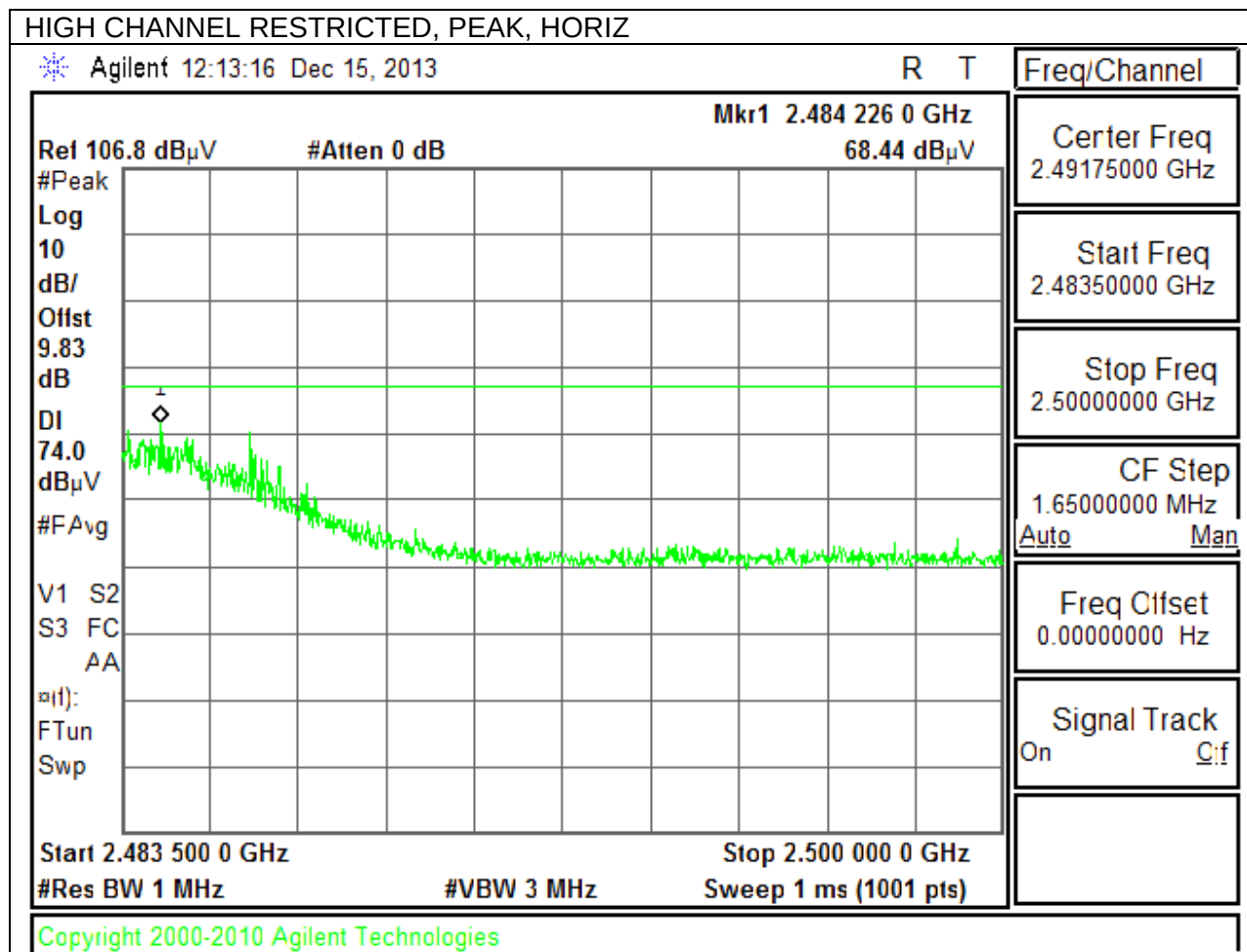








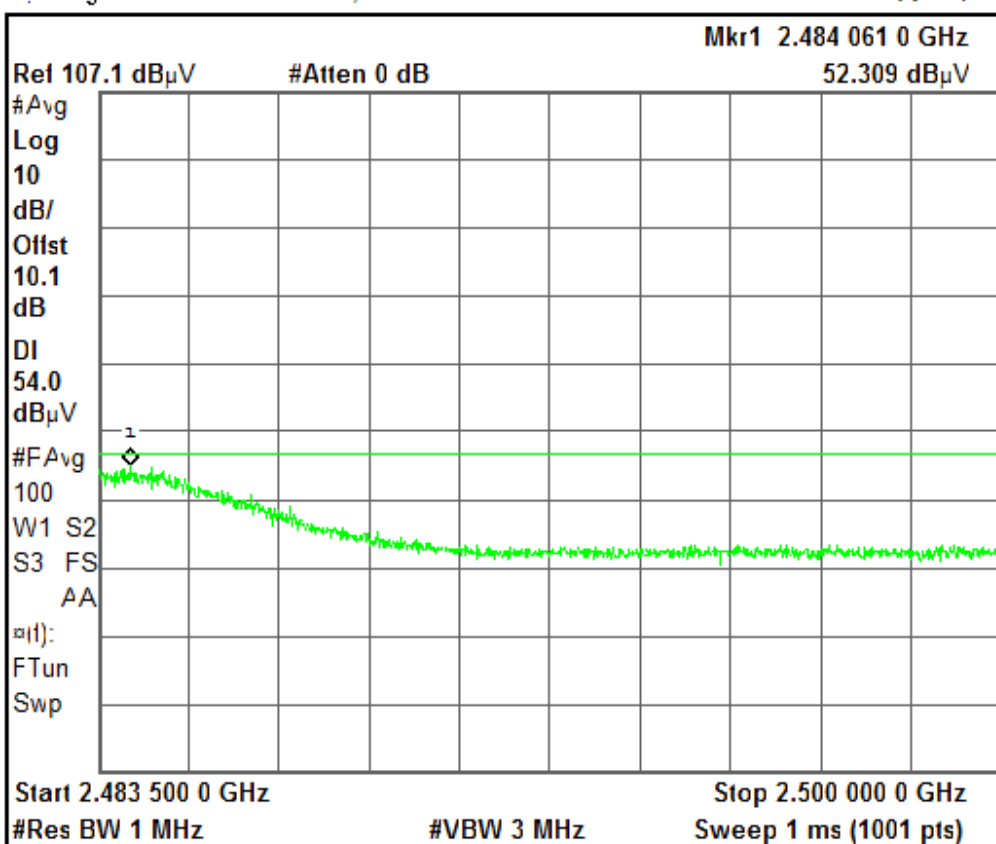
AUTHORIZED BANDEDGE (HIGH CHANNEL)



HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ

Agilent 12:14:45 Dec 15, 2013

R T



Freq/Channel

Center Freq
2.49175000 GHz

Start Freq
2.48350000 GHz

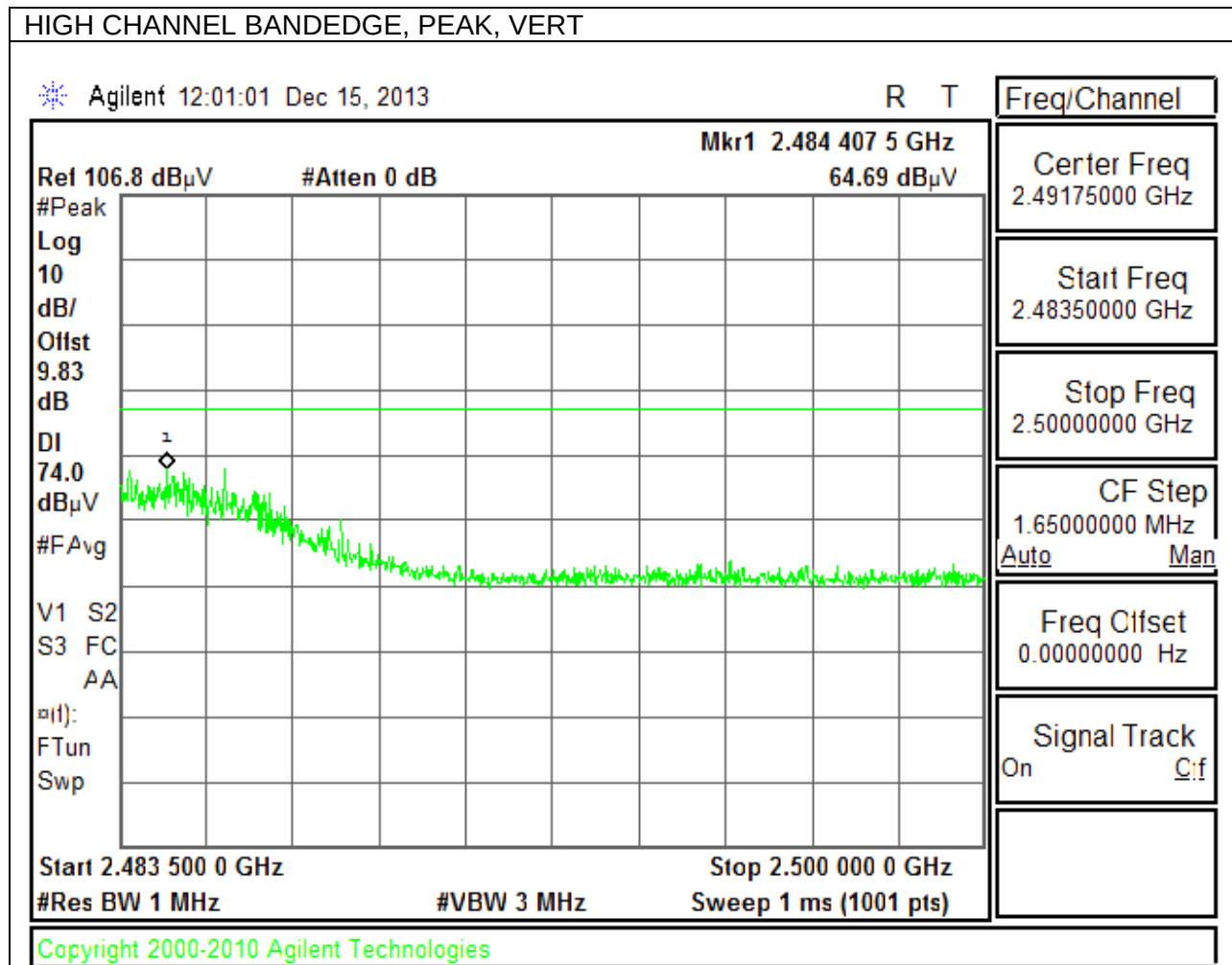
Stop Freq
2.50000000 GHz

CF Step
1.65000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Clf

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HIGH CHANNEL BANDEDGE, AVERAGE, VERT

Agilent 12:02:44 Dec 15, 2013

R T

Freq/Channel

Ref 107.1 dB μ V

#Atten 0 dB

Mkr1 2.484 259 0 GHz

50.104 dB μ V

Center Freq
2.49175000 GHz

#Avg

Log

10

dB/

Offst

10.1

dB

DI

54.0

dB μ V

Start Freq
2.48350000 GHz

Stop Freq
2.50000000 GHz

CF Step
1.65000000 MHz

Auto Man

#FAvg

100

W1 S2

S3 FS

AA

Freq Offset
0.00000000 Hz

m(f):

FTun

Swp

Signal Track
On Clf

Start 2.483 500 0 GHz

Stop 2.500 000 0 GHz

#Res BW 1 MHz

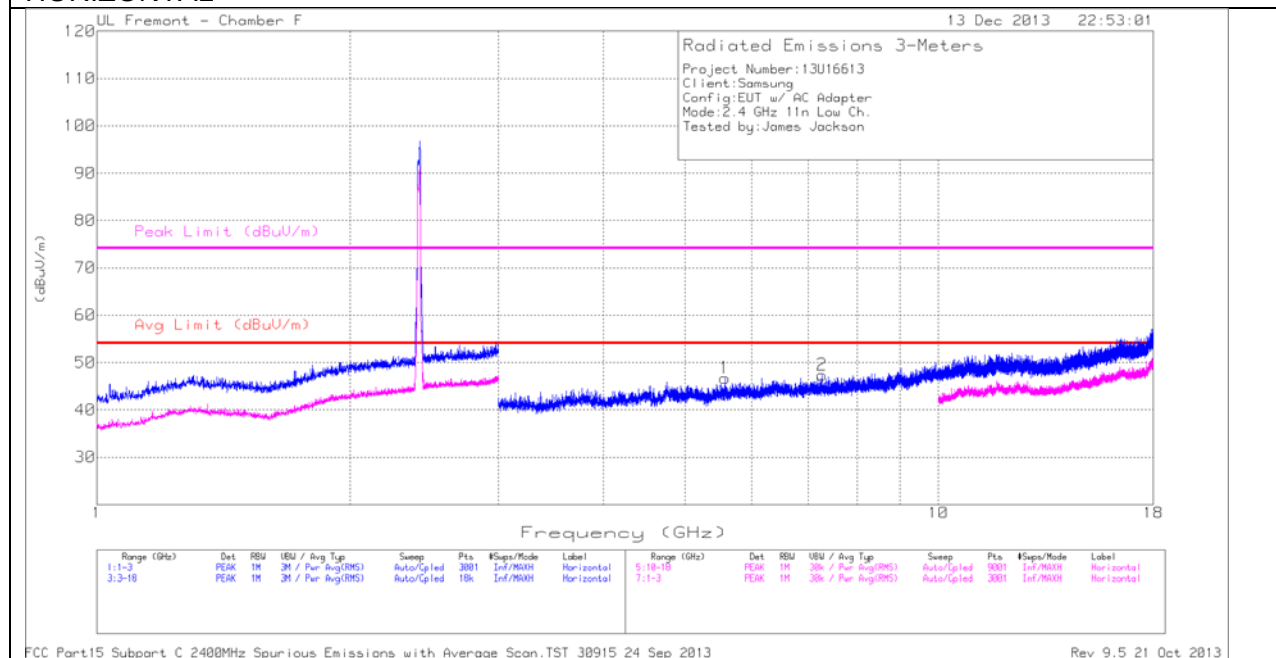
#VBW 3 MHz

Sweep 1 ms (1001 pts)

Copyright 2000-2010 Agilent Technologies

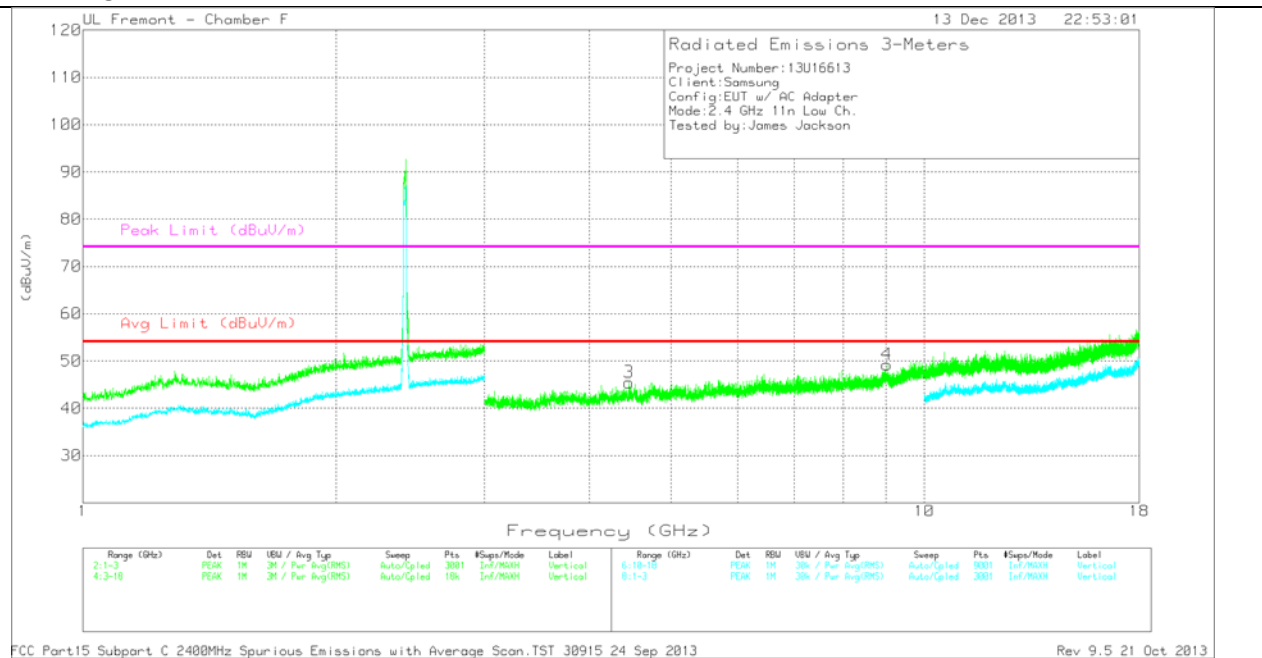
HARMONICS AND SPURIOUS EMISSIONS

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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	4.453	40.15	PK	33.8	-28.5	45.45	53.97	-8.52	74	-28.55	0-360	201	V
1	5.576	40.59	PK	34.7	-28.6	46.69	53.97	-7.28	74	-27.31	0-360	199	H
2	7.27	38.17	PK	35.7	-26.5	47.37	53.97	-6.6	74	-26.63	0-360	199	H
4	9.025	35.83	PK	36.4	-23	49.23	53.97	-4.74	74	-24.77	0-360	101	V

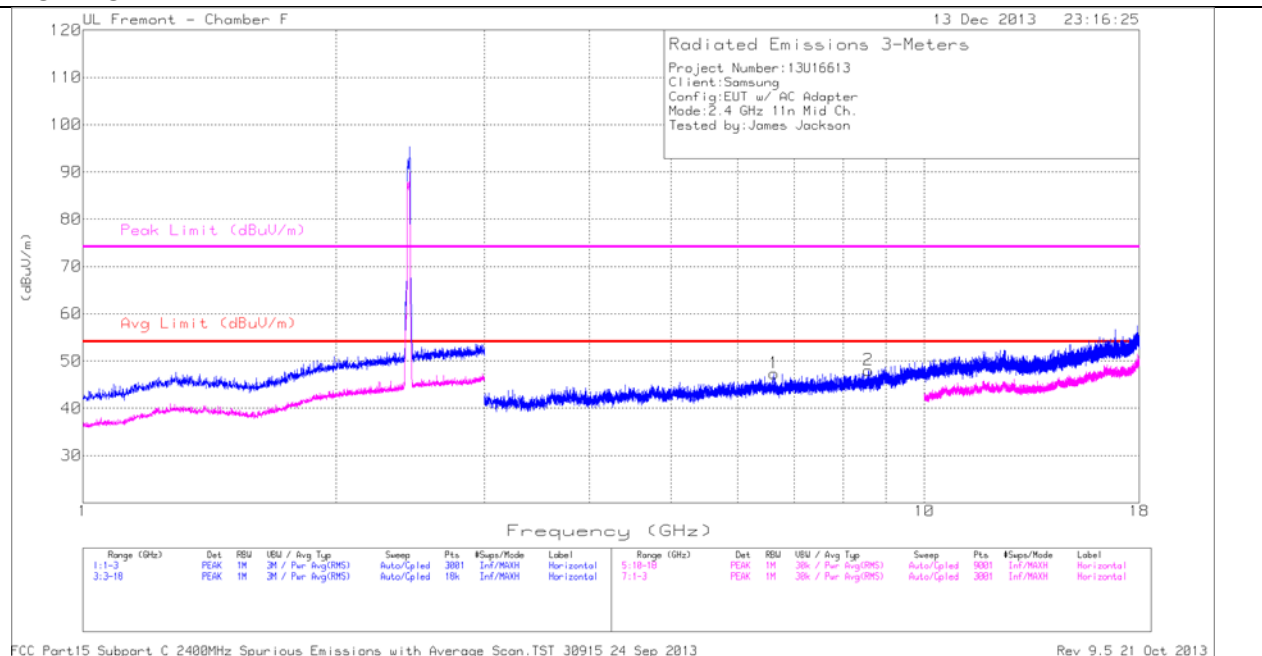
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.03	25.19	MAv1	36.4	-23.2	38.39	53.97	-15.58	74	-35.61	218	358	V

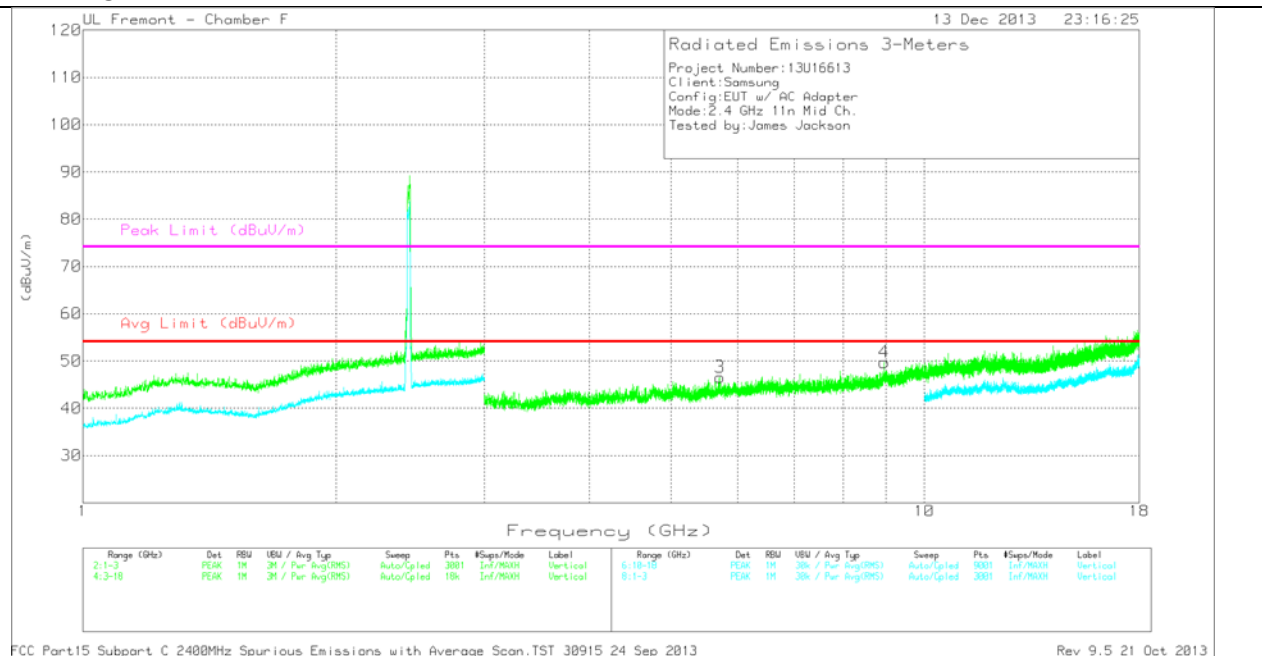
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

MID CHANNEL
HORIZONTAL



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

MID CHANNEL VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl /3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	5.714	38.23	PK	34.9	-26.6	46.53	53.97	-7.44	74	-27.47	0-360	101	V
1	6.631	38.28	PK	35.8	-26.7	47.38	53.97	-6.59	74	-26.62	0-360	100	H
2	8.578	36.87	PK	36	-24.8	48.07	53.97	-5.9	74	-25.93	0-360	100	H
4	8.96	36.31	PK	36.3	-22.9	49.71	53.97	-4.26	74	-24.29	0-360	101	V

PK - Peak detector

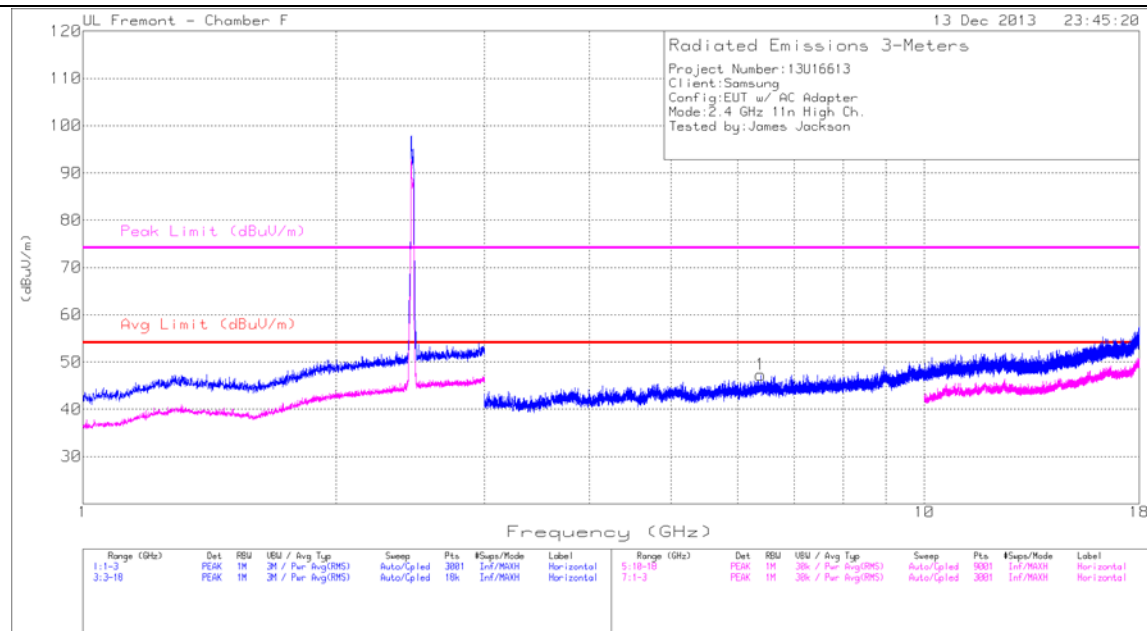
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.583	26.01	MAv1	36	-24.7	37.31	53.97	-16.66	74	-36.69	338	185	H
8.953	25.36	MAv1	36.3	-23	38.66	53.97	-15.31	74	-35.34	2	153	V

PK - Peak detector

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

HIGH CHANNEL HORIZONTAL

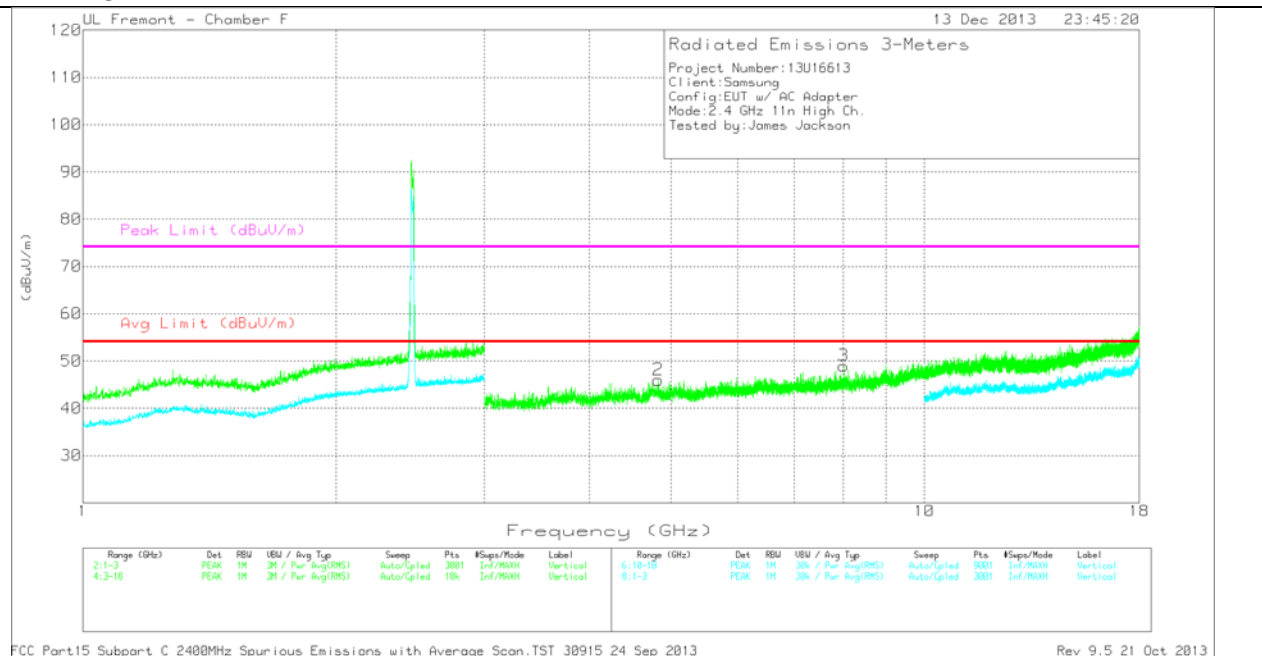


FCC Part15 Subpart C 2400MHz Spurious Emissions with Average Scan.TST 30915 24 Sep 2013

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.

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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	4.826	39.29	PK	34	-27.3	45.99	53.97	-7.98	74	-28.01	0-360	101	V
1	6.387	38.58	PK	35.7	-27	47.28	53.97	-6.69	74	-26.72	0-360	100	H
3	8.016	38.49	PK	36	-25.5	48.99	53.97	-4.98	74	-25.01	0-360	101	V

PK - Peak detector

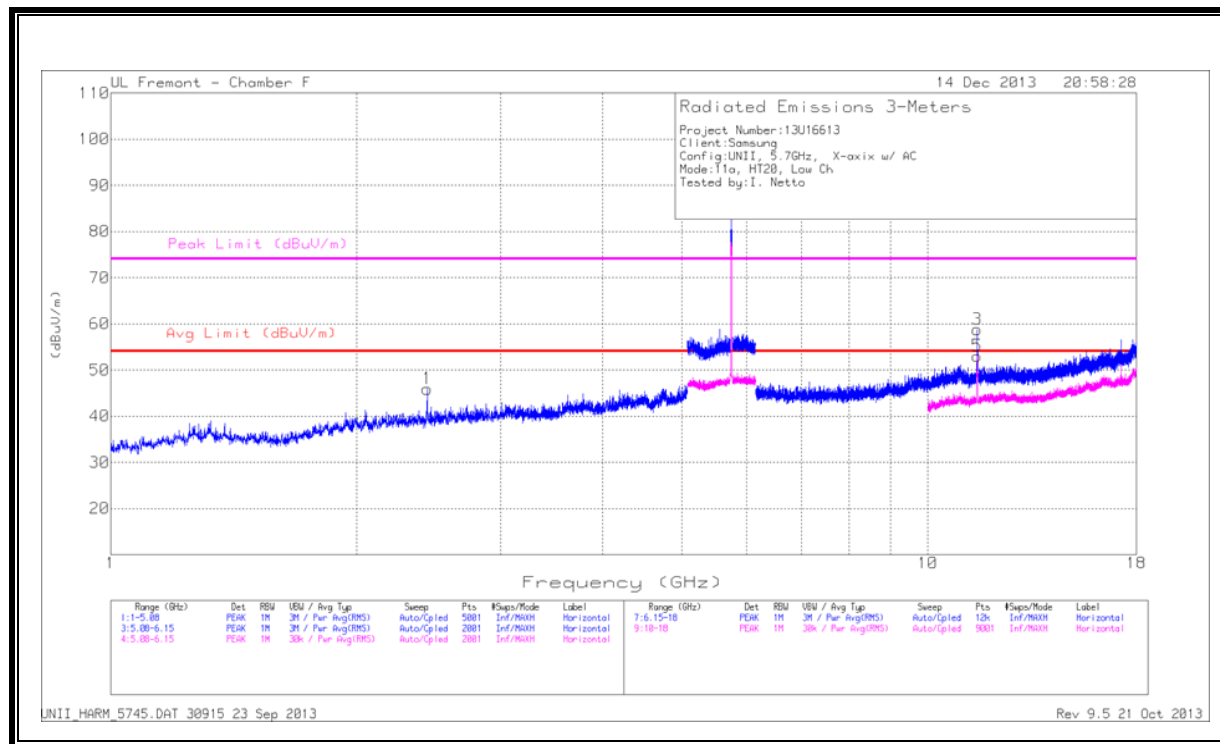
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/3 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.014	26.61	MAv1	36	-25.5	37.11	53.97	-16.86	74	-36.89	1	100	V

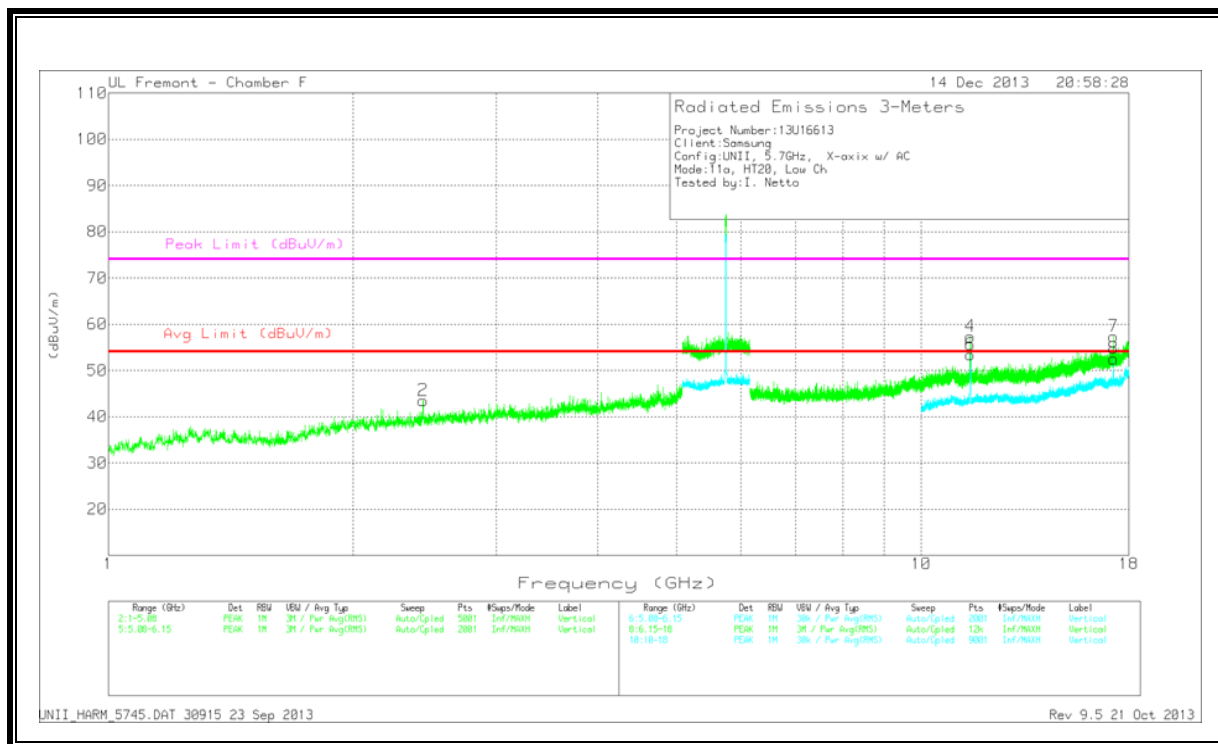
10.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL
HORIZONTAL



VERTICAL



LOW CHANNEL DATA

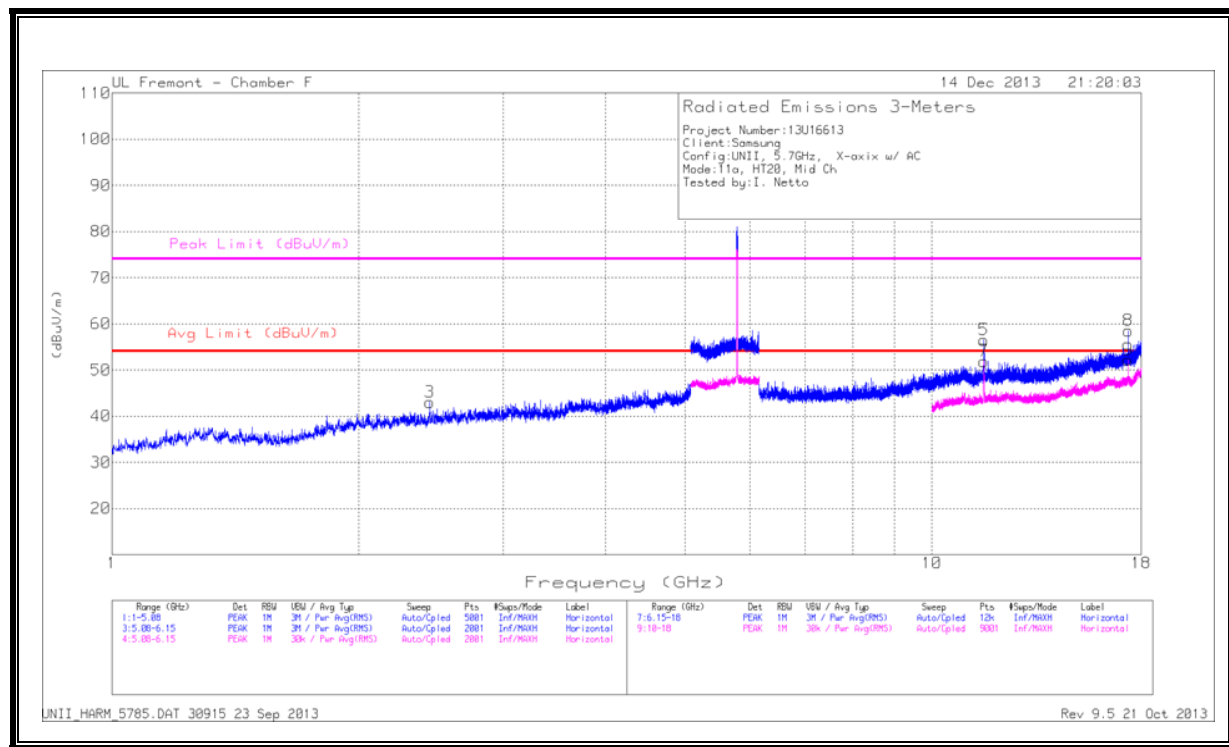
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.439	44.32	PK	32.3	-30.7	45.92	53.97	-8.05	74	-28.08	0-360	199	H
2	2.439	41.92	PK	32.3	-30.7	43.52	53.97	-10.45	74	-30.48	0-360	200	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 6GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	11.487	41.32	PK	38.8	-22.8	57.32			74	-16.68	0-360	101	V
6	11.488	37.42	Avg	38.8	-22.8	53.42	53.97	-0.55	-	-	0-360	201	V
3	11.491	42.9	PK	38.8	-22.9	58.8			74	-15.2	0-360	199	H
5	11.491	37.13	Avg	38.8	-22.9	53.03	53.97	-0.94	-	-	0-360	100	H
7	17.234	37.66	PK	41.1	-21.4	57.36			74	-16.64	0-360	201	V
8	17.236	32.88	Avg	41.1	-21.4	52.58	53.97	-1.39	-	-	0-360	201	V

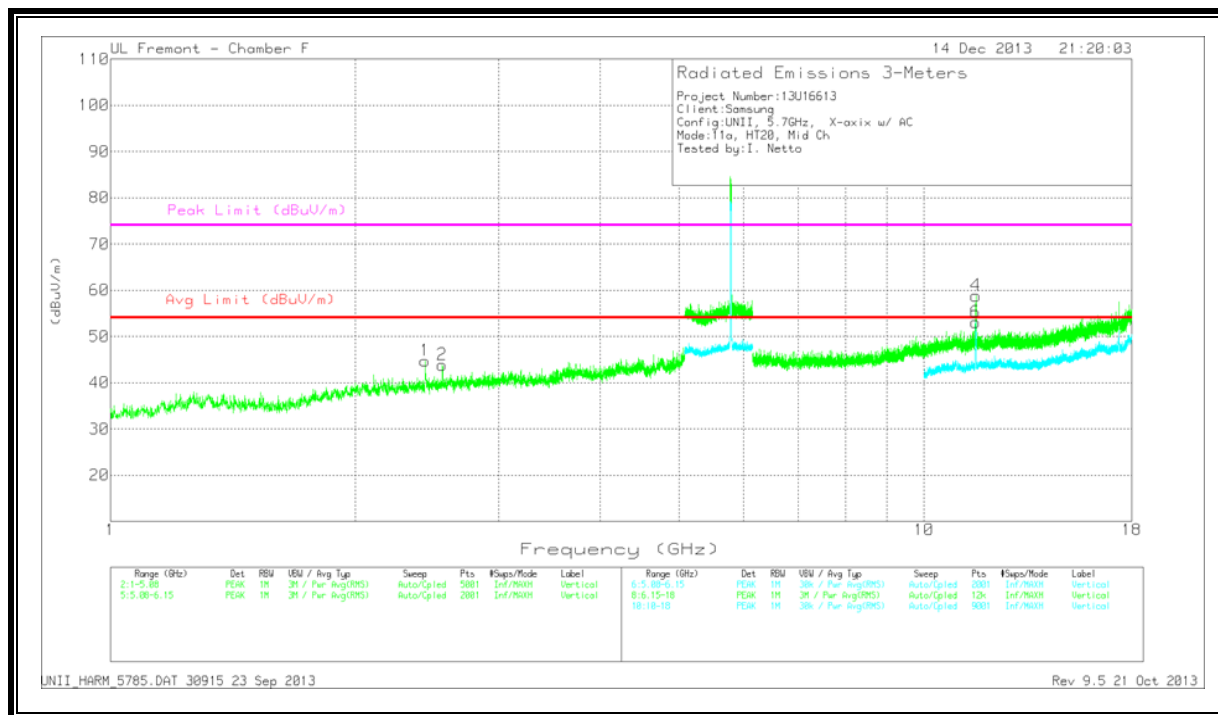
PK - Peak detector

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

MID CHANNEL
HORIZONTAL



VERTICAL



MID CHANNEL DATA

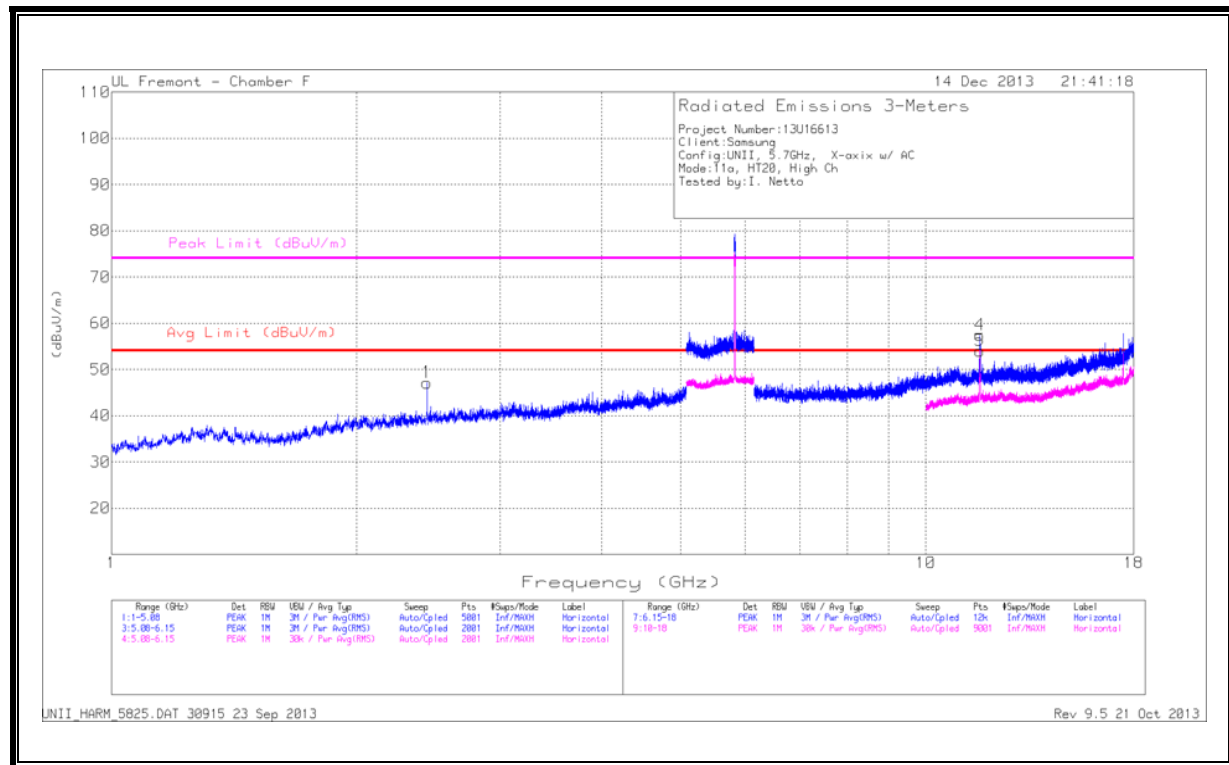
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.435	43.18	PK	32.3	-30.7	44.78	53.97	-9.19	74	-29.22	0-360	101	V
3	2.441	41.43	PK	32.3	-30.7	43.03	53.97	-10.94	74	-30.97	0-360	199	H
2	2.558	41.75	PK	32.6	-30.5	43.85	53.97	-10.12	74	-30.15	0-360	101	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 6GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	11.569	40.9	PK	38.9	-23.3	56.5			74	-17.5	0-360	100	H
7	11.569	36.29	Avg	38.9	-23.3	51.89	53.97	-2.08	-	-	0-360	100	H
6	11.573	37.4	Avg	39	-23.3	53.1	53.97	-0.87	-	-	0-360	101	V
4	11.578	43.12	PK	39	-23.3	58.82			74	-15.18	0-360	101	V
9	17.348	32.51	Avg	41.1	-21.4	52.21	53.97	-1.76	-	-	0-360	199	H
8	17.352	38.83	PK	41.1	-21.4	58.53			74	-15.47	0-360	199	H

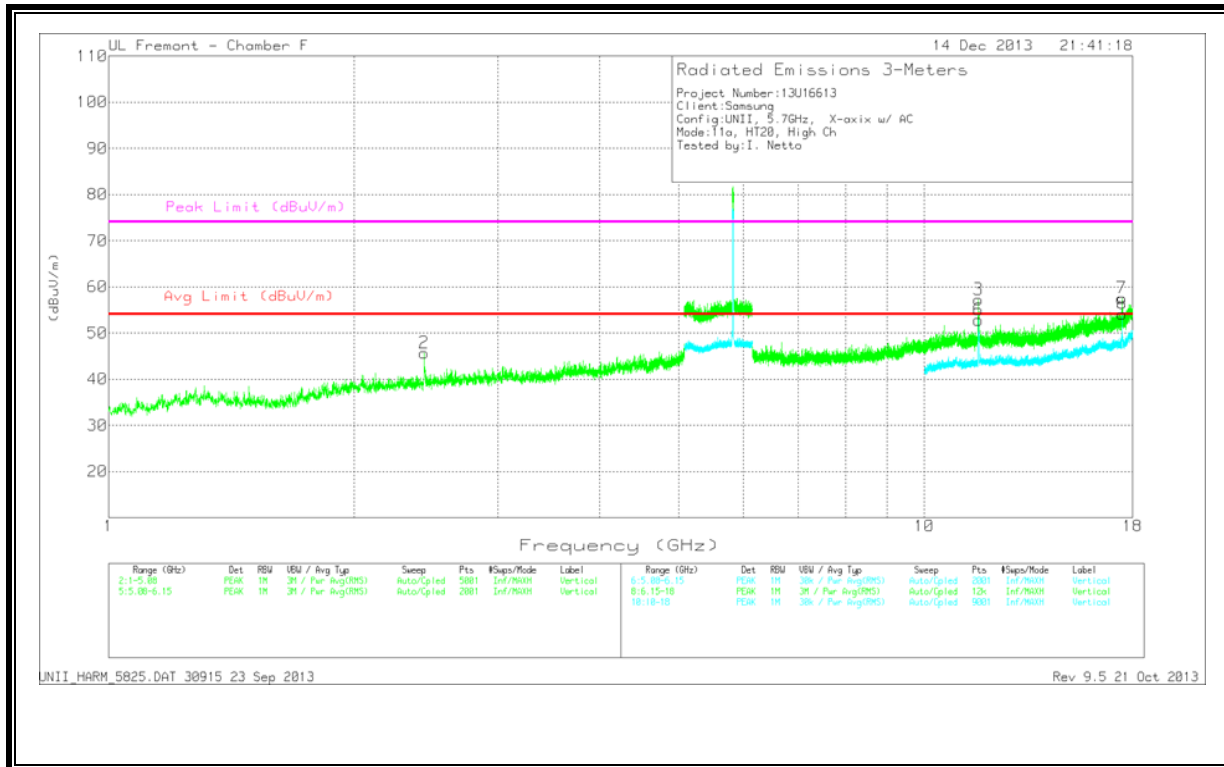
PK - Peak detector

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

HIGH CHANNEL
HORIZONTAL



VERTICAL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.436	44.08	PK	32.3	-30.7	45.68	53.97	-8.29	74	-28.32	0-360	200	V
1	2.439	45.54	PK	32.3	-30.7	47.14	53.97	-6.83	74	-26.86	0-360	199	H

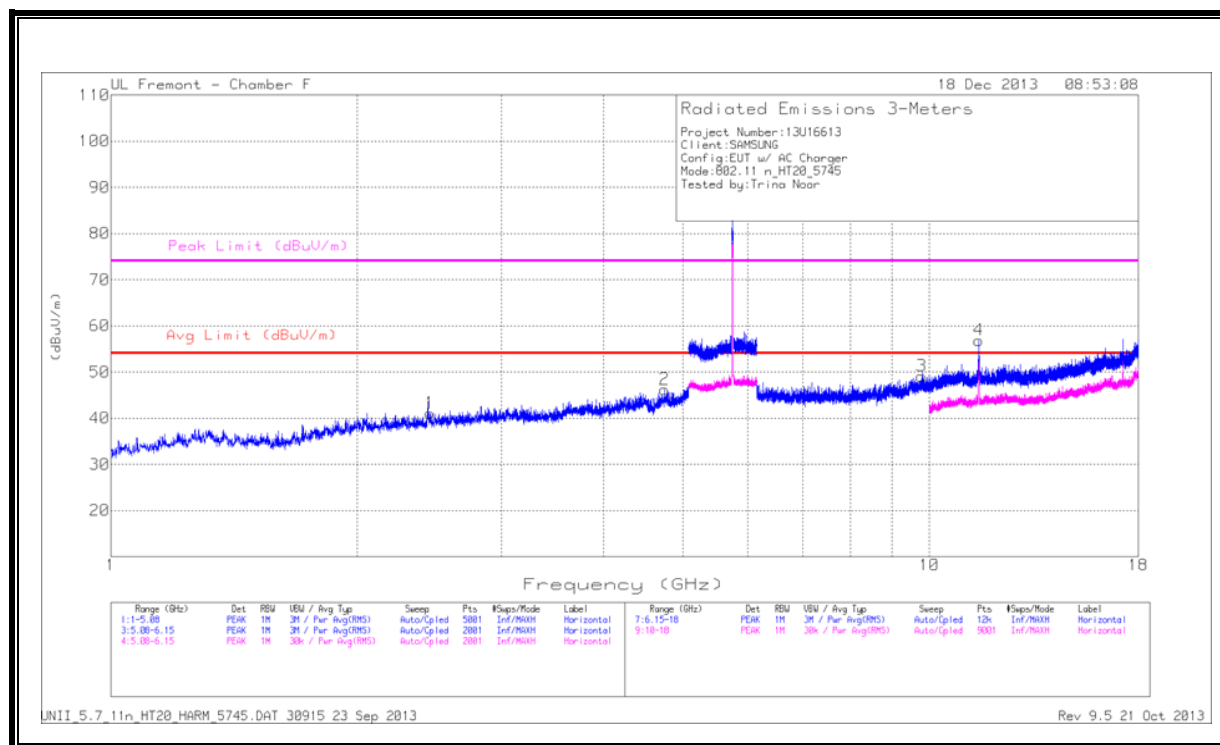
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl /6GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	11.645	37.34	Avg	39	-23.5	52.84	53.97	-1.13	-	-	0-360	101	V
3	11.648	41.75	PK	39	-23.5	57.25			74	-16.75	0-360	100	V
4	11.65	41.82	PK	39.1	-23.5	57.42			74	-16.58	0-360	199	H
5	11.65	37.56	Avg	39	-23.5	53.06	53.97	-0.91	-	-	0-360	199	H
7	17.464	37.96	PK	41	-21.4	57.56			74	-16.44	0-360	201	V
8	17.474	34.16	Avg	41	-21.6	53.56	53.97	-0.41	-	-	0-360	200	V

PK - Peak detector

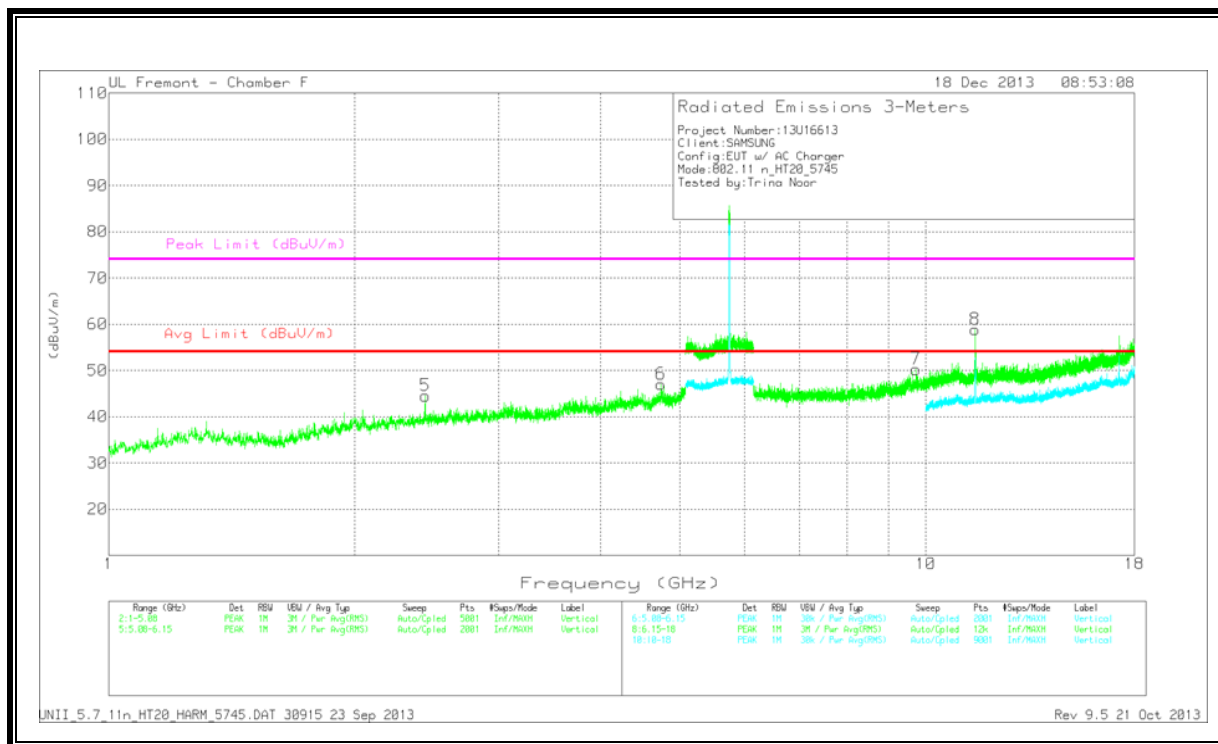
10.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL
HORIZONTAL



VERTICAL



LOW CHANNEL DATA

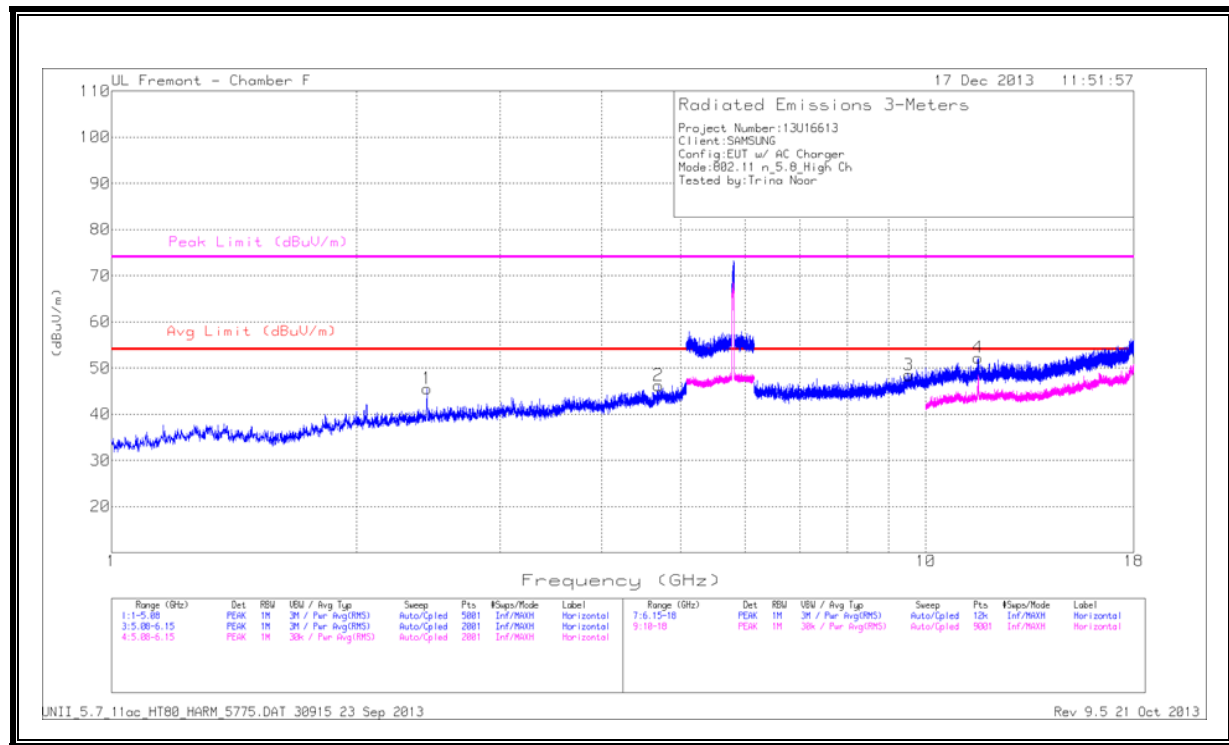
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.44	42.94	PK	32.3	-30.7	44.54	53.97	-9.43	74	-29.46	0-360	101	V
1	2.452	39.37	PK	32.3	-30.6	41.07	53.97	-12.9	74	-32.93	0-360	100	H
6	4.741	40.66	PK	34.1	-27.7	47.06	53.97	-6.91	74	-26.94	0-360	101	V
2	4.746	39.85	PK	34.1	-27.7	46.25	53.97	-7.72	74	-27.75	0-360	199	H

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb I/6GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	9.726	35.76	PK	37.4	-22.9	50.26	53.97	-3.71	74	-23.74	0-360	201	V
3	9.785	34.72	PK	37.5	-23.1	49.12	53.97	-4.85	74	-24.88	0-360	100	H
9	11.49	36.16	Avg	38.8	-22.9	52.06	53.97	-1.91	-	-	0-360	199	H
10	11.49	36.92	Avg	38.8	-22.9	52.82	53.97	-1.15	-	-	0-360	200	V
8	11.491	42.96	PK	38.8	-22.9	58.86			74	-15.14	0-360	101	V
4	11.493	40.88	PK	38.9	-22.9	56.88			74	-17.12	0-360	100	H

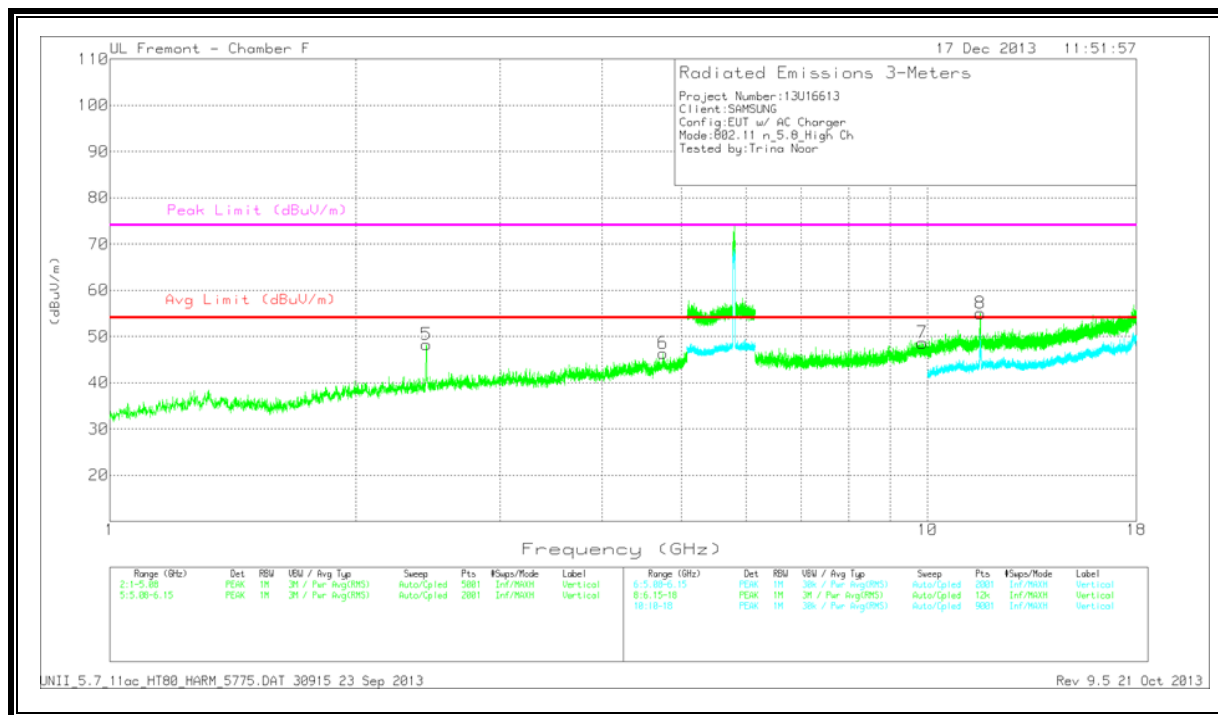
PK - Peak detector

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MID CHANNEL
HORIZONTAL



VERTICAL



MID CHANNEL DATA

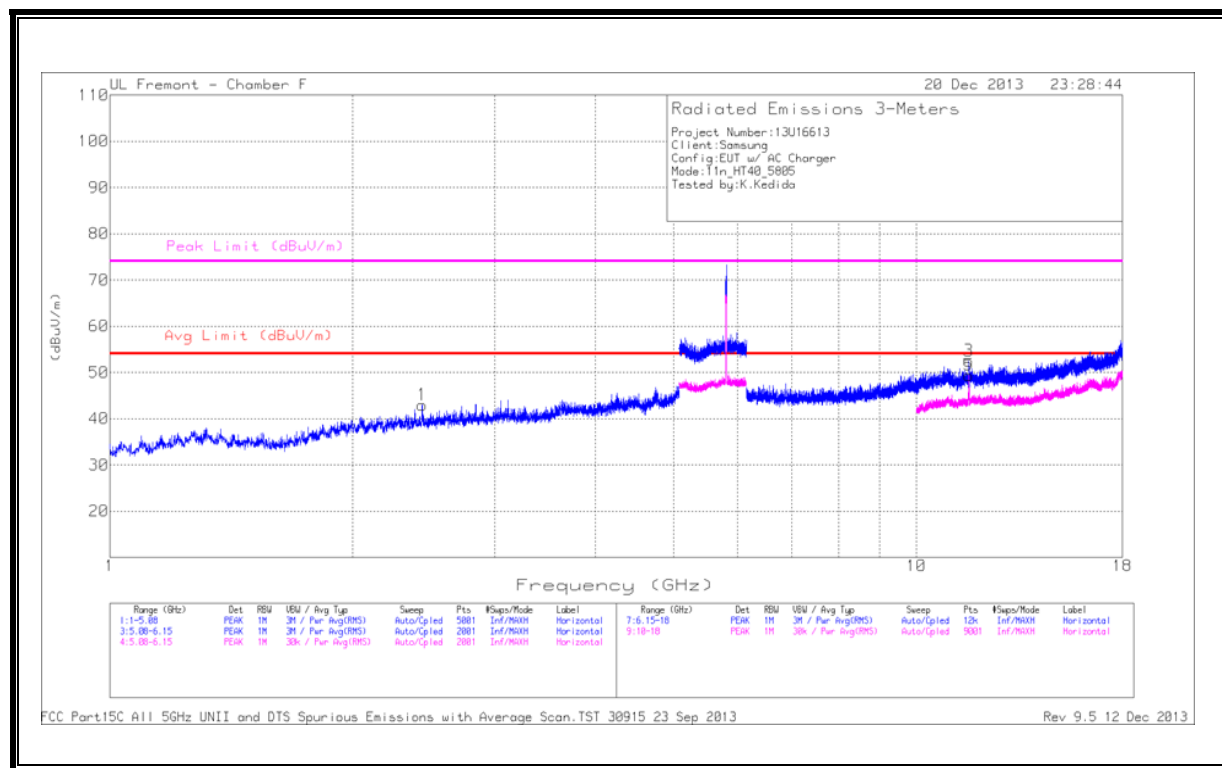
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/5GH z LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.438	46.67	PK	32.3	-30.7	48.27	53.97	-5.7	74	-25.73	0-360	200	V
1	2.44	43.97	PK	32.3	-30.7	45.57	53.97	-8.4	74	-28.43	0-360	199	H
2	4.695	39.74	PK	34.1	-27.6	46.24	53.97	-7.73	74	-27.76	0-360	199	H
6	4.746	39.97	PK	34.1	-27.7	46.37	53.97	-7.6	74	-27.63	0-360	200	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/6GH z HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	9.523	33.97	PK	37.2	-22.7	48.47	53.97	-5.5	74	-25.53	0-360	100	H
7	9.849	34.01	PK	37.6	-23	48.61	53.97	-5.36	74	-25.39	0-360	100	V
4	11.587	36.54	PK	39	-23.3	52.24	53.97	-1.73	74	-21.76	0-360	199	H
9	11.588	32.82	Avg	39	-23.3	48.52	53.97	-5.45	-	-	0-360	199	H
10	11.591	34.76	Avg	39	-23.3	50.46	53.97	-3.51	-	-	0-360	101	V
8	11.598	39.21	PK	39	-23.2	55.01			74	-18.99	0-360	201	V

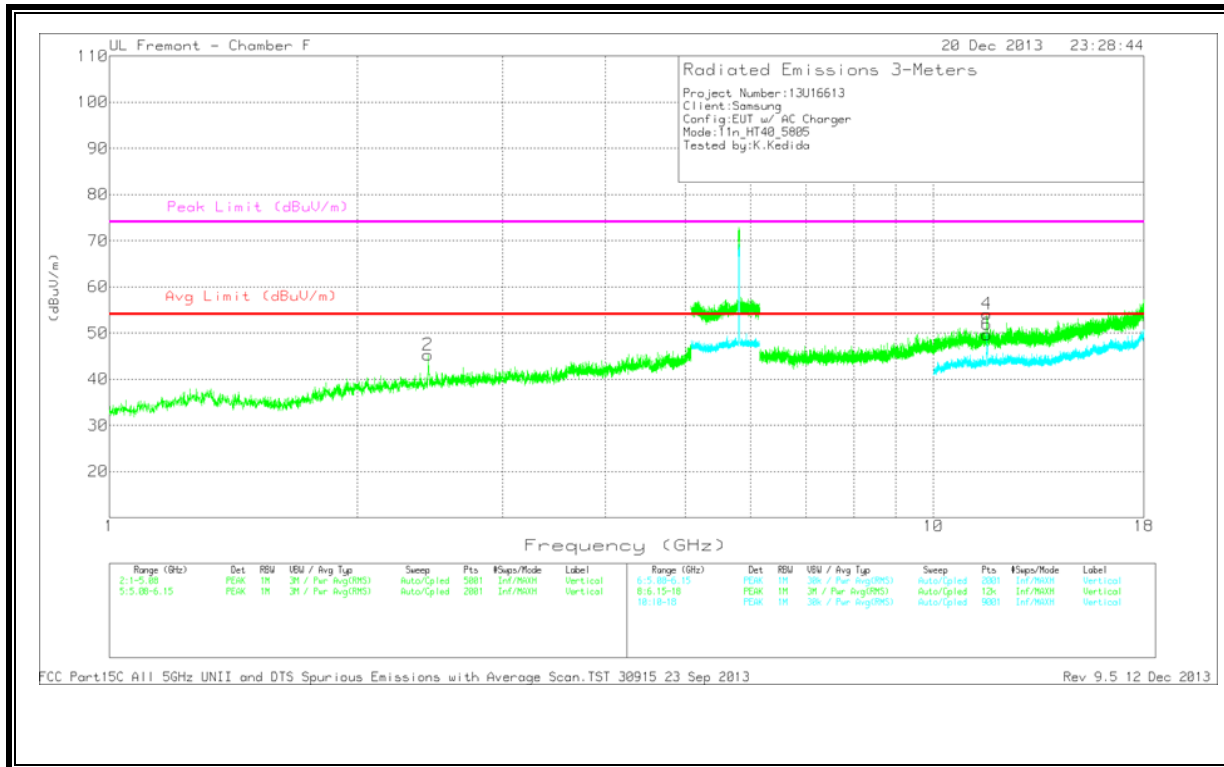
PK - Peak detector

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

HIGH CHANNEL
HORIZONTAL



VERTICAL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/5 GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.435	43.66	PK	32.3	-30.7	45.26	53.97	-8.71	74	-28.74	0-360	101	V
1	2.439	41.36	PK	32.3	-30.7	42.96	53.97	-11.01	74	-31.04	0-360	200	H

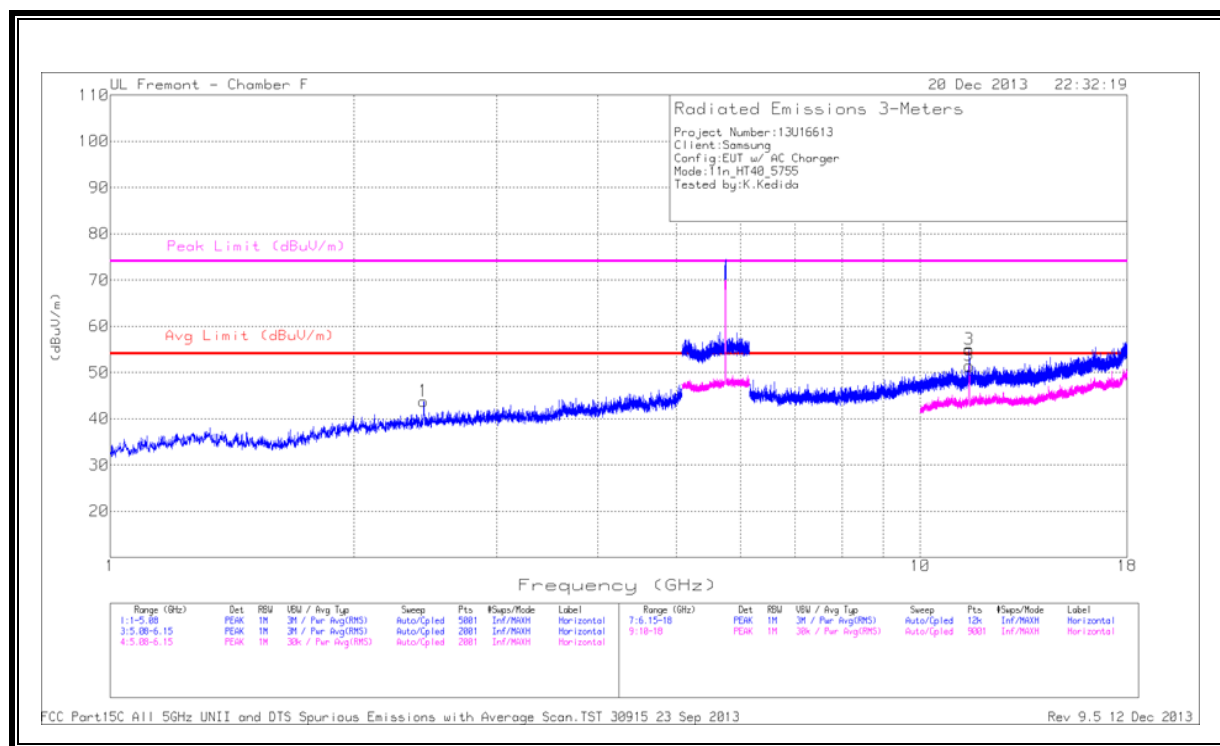
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 11.605	38.44	PK	39	-23.3	54.14			74	-19.86	0-360	201	V
3	* 11.606	36.76	PK	39	-23.3	52.46	53.97	-1.51	74	-21.54	0-360	101	H
6	* 11.61	34	Avg	39	-23.3	49.7	53.97	-4.27	74	24.3	0-360	201	V
5	* 11.611	33.7	Avg	39	-23.3	49.4	53.97	-4.57	74	24.6	0-360	200	H

PK - Peak detector

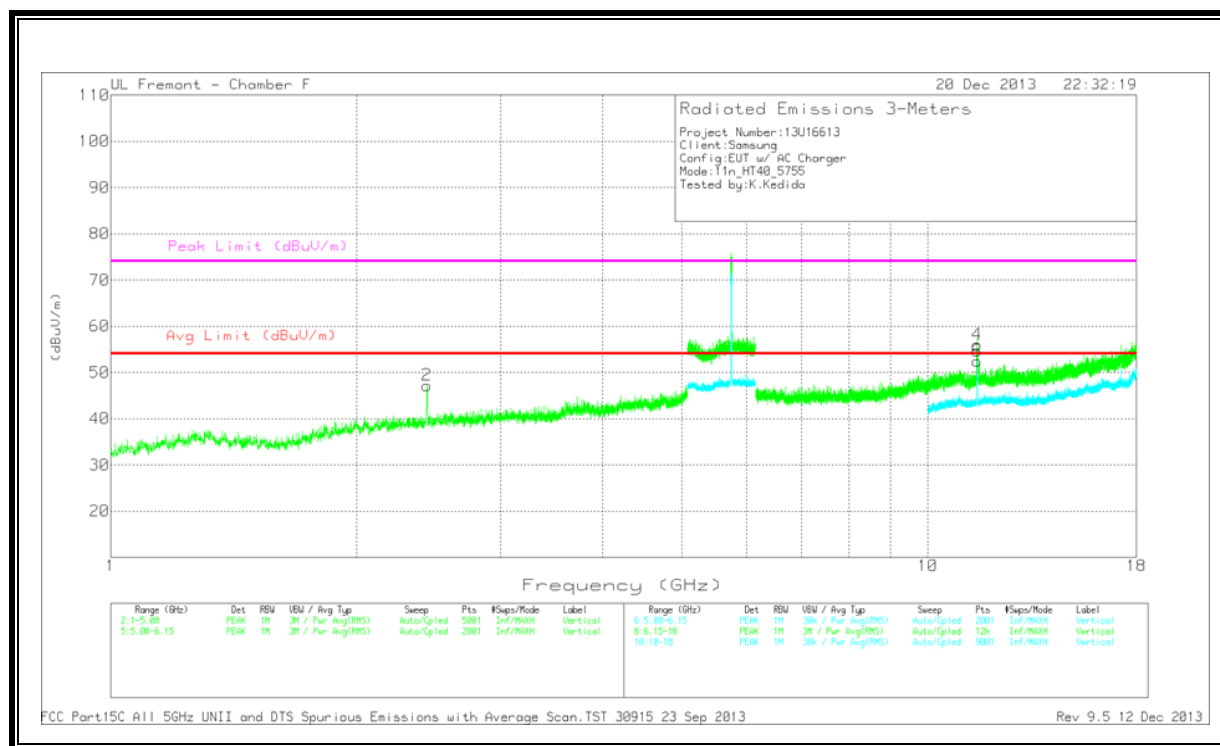
10.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL
HORIZONTAL



VERTICAL



LOW CHANNEL DATA

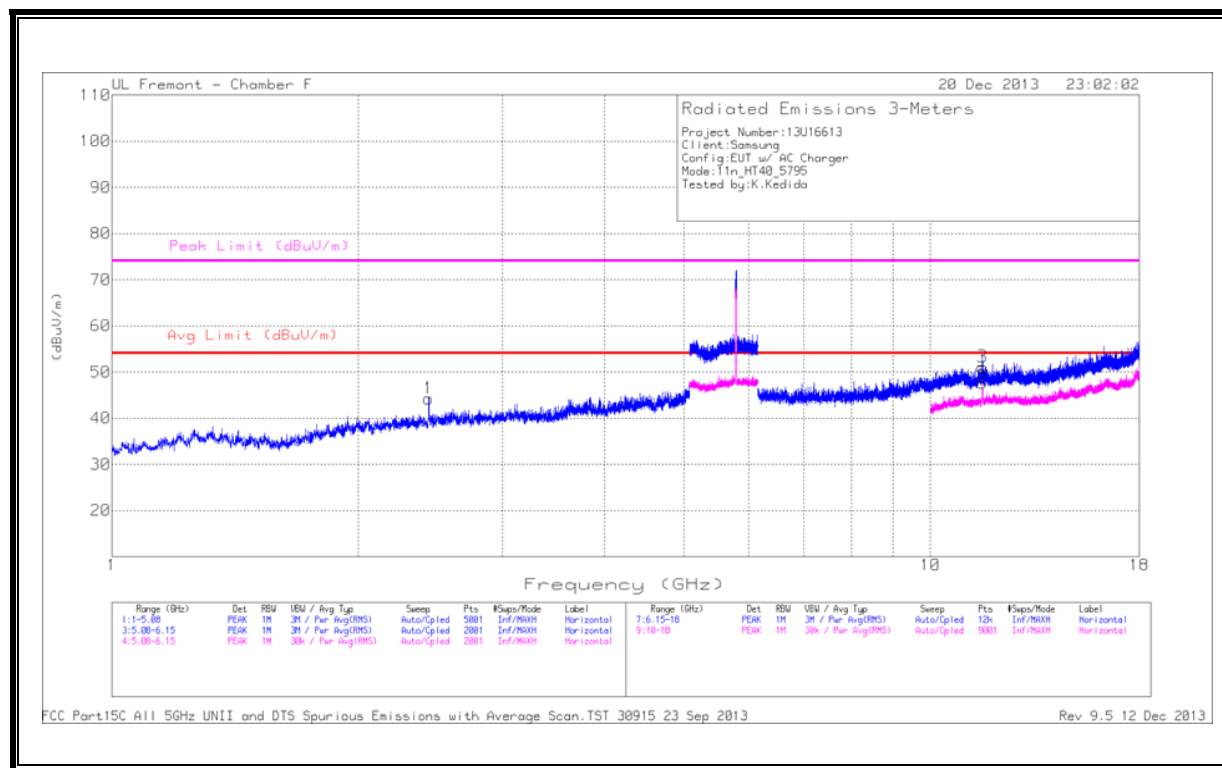
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/5 GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.436	42.15	PK	32.3	-30.7	43.75	53.97	-10.22	74	-30.25	0-360	200	H
2	2.437	45.62	PK	32.3	-30.7	47.22	53.97	-6.75	74	-26.78	0-360	201	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 11.489	35.47	Avg	38.8	-22.8	51.47	53.97	-2.5	74	22.53	0-360	199	H
4	* 11.491	40.09	PK	38.8	-22.9	55.99			74	-18.01	0-360	101	V
6	* 11.491	36.56	Avg	38.8	-22.9	52.46	53.97	-1.51	74	21.54	0-360	101	V
3	* 11.495	39.09	PK	38.9	-23	54.99			74	-19.01	0-360	200	H

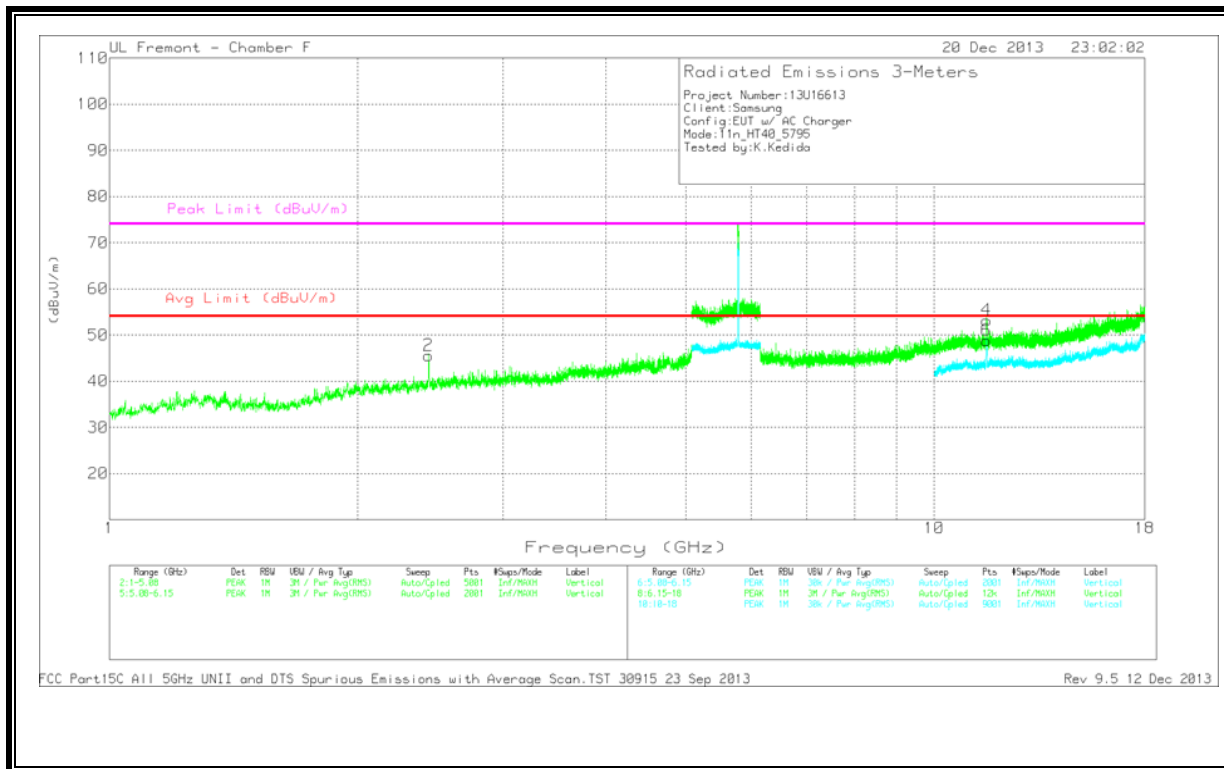
PK - Peak detector

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

HIGH CHANNEL
HORIZONTAL



VERTICAL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/5 GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.437	42.66	PK	32.3	-30.7	44.26	53.97	-9.71	74	-29.74	0-360	199	H
2	2.437	43.95	PK	32.3	-30.7	45.55	53.97	-8.42	74	-28.45	0-360	201	V

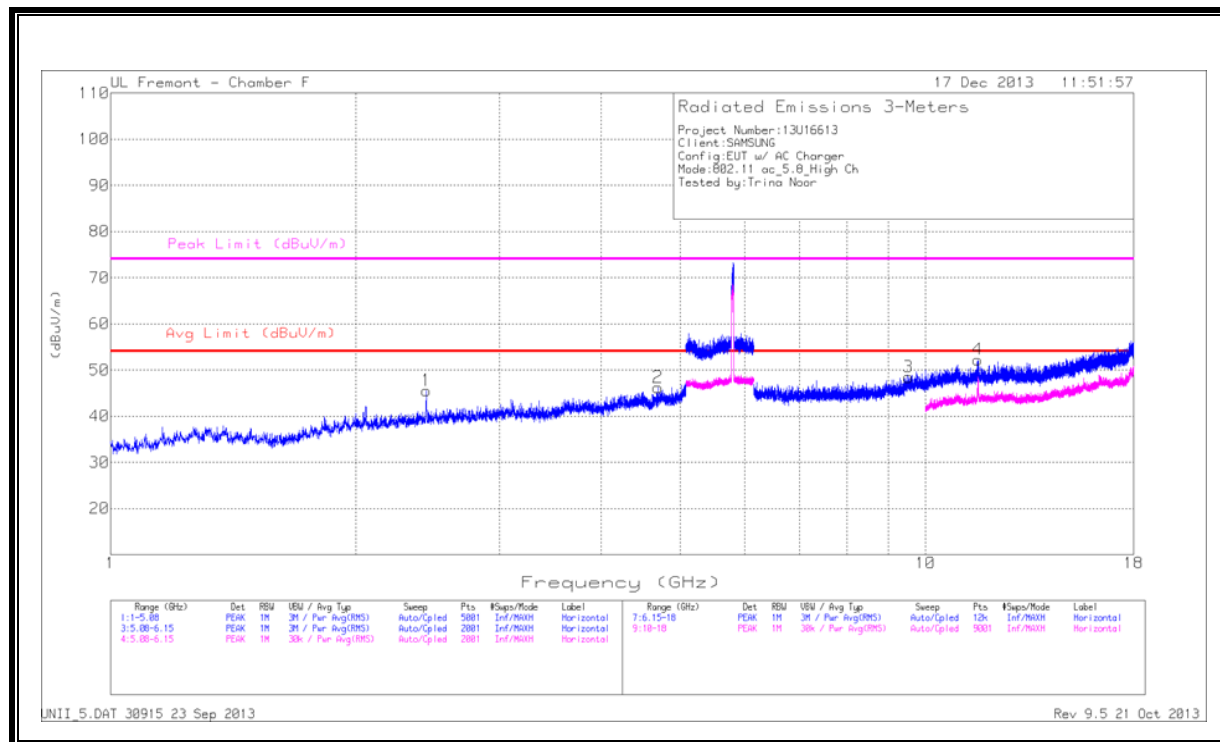
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 11.572	31.98	Avg	38.9	-23.3	47.58	53.97	-6.39	74	26.42	0-360	101	H
6	* 11.572	33.26	Avg	38.9	-23.3	48.86	53.97	-5.11	74	25.14	0-360	201	V
3	* 11.576	35.39	PK	39	-23.3	51.09	53.97	-2.88	74	-22.91	0-360	200	H
4	* 11.576	37.49	PK	39	-23.3	53.19	53.97	-.78	74	-20.81	0-360	201	V

PK - Peak detector

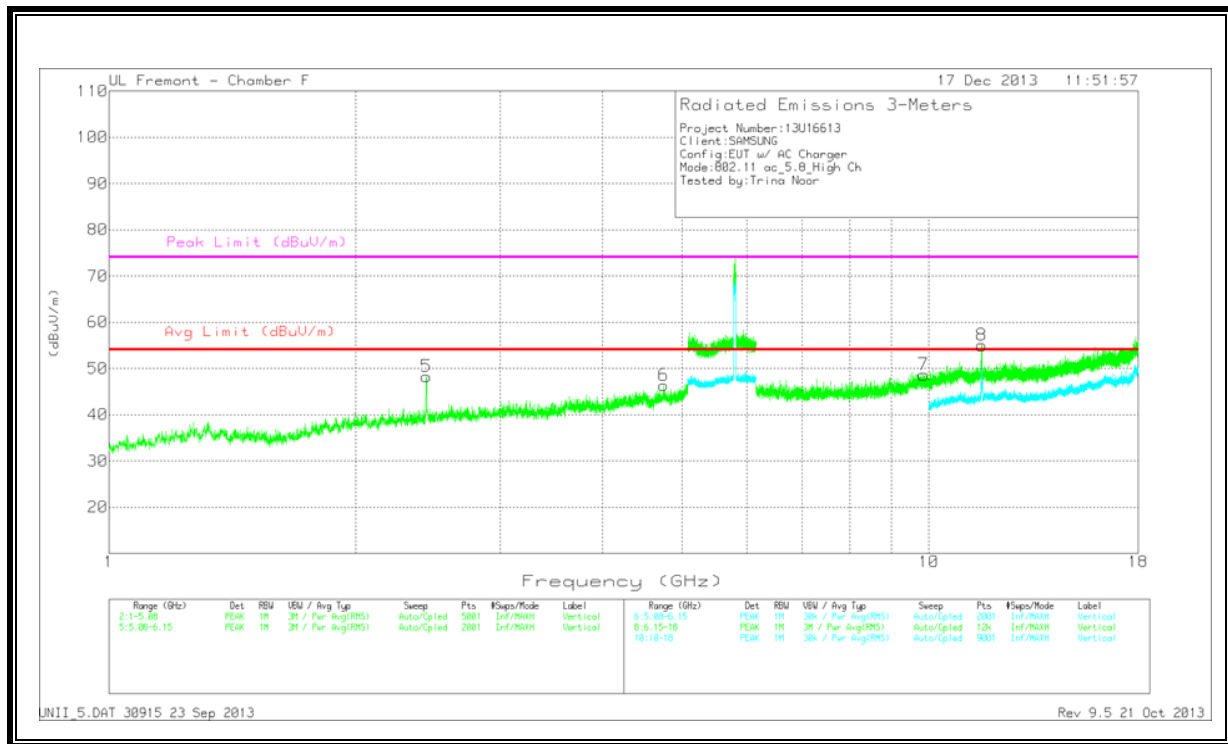
10.2.4. TX ABOVE 1 GHz 802.11ac HT40 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.438	46.67	PK	32.3	-30.7	48.27	53.97	-5.7	74	-25.73	0-360	200	V
1	2.44	43.97	PK	32.3	-30.7	45.57	53.97	-8.4	74	-28.43	0-360	199	H
2	4.695	39.74	PK	34.1	-27.6	46.24	53.97	-7.73	74	-27.76	0-360	199	H
6	4.746	39.97	PK	34.1	-27.7	46.37	53.97	-7.6	74	-27.63	0-360	200	V

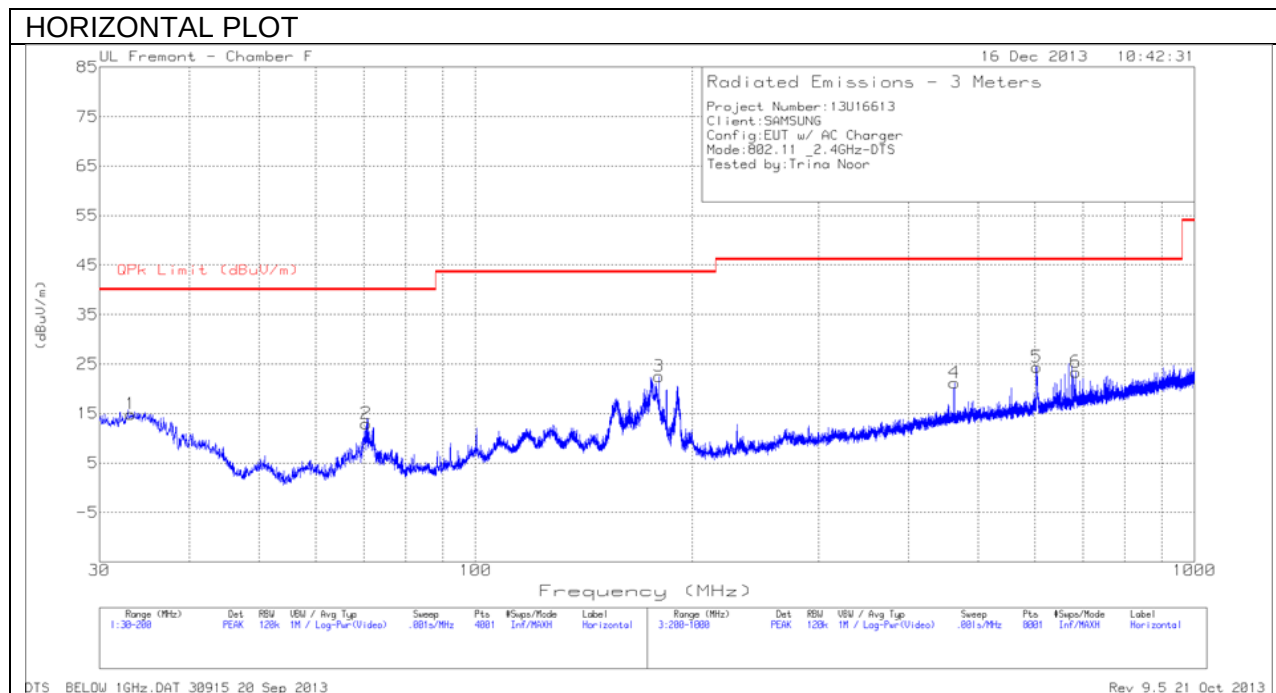
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 6GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	9.523	33.97	PK	37.2	-22.7	48.47	53.97	-5.5	74	-25.53	0-360	100	H
7	9.849	34.01	PK	37.6	-23	48.61	53.97	-5.36	74	-25.39	0-360	100	V
4	11.587	36.54	PK	39	-23.3	52.24	53.97	-1.73	74	-21.76	0-360	199	H
9	11.588	32.82	Avg	39	-23.3	48.52	53.97	-5.45	-	-	0-360	199	H
10	11.591	34.76	Avg	39	-23.3	50.46	53.97	-3.51	-	-	0-360	101	V
8	11.598	39.21	PK	39	-23.2	55.01			74	-18.99	0-360	201	V

PK - Peak detector

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

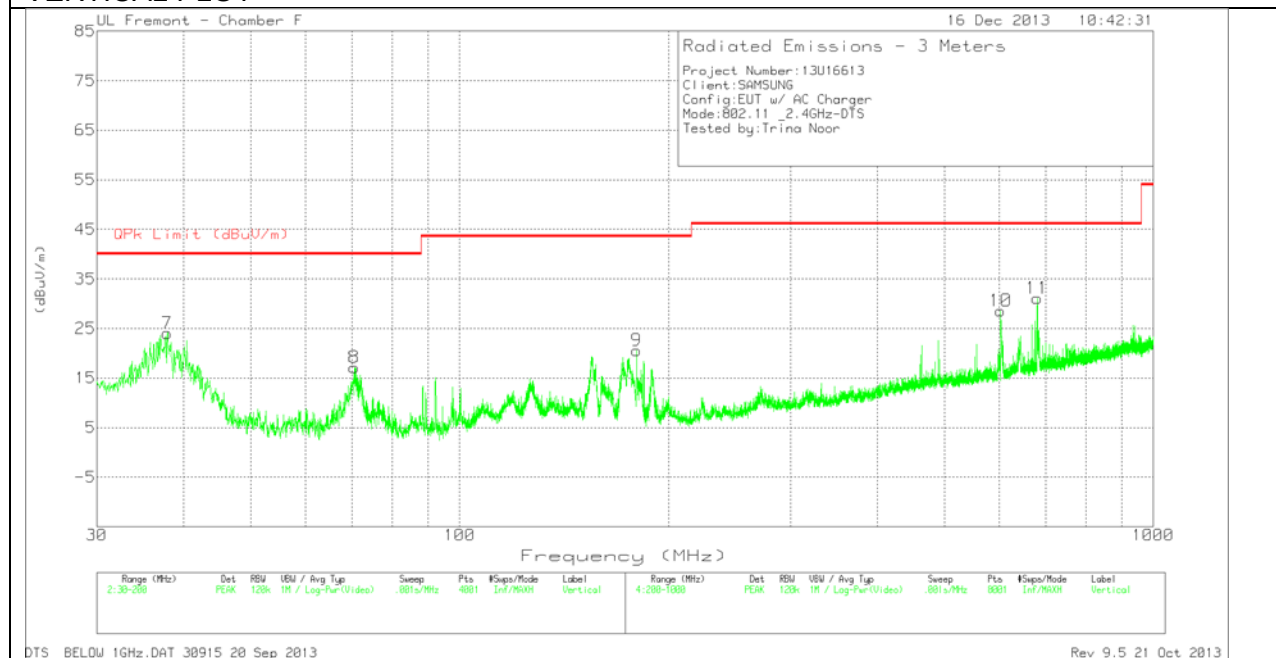
10.3. WORST-CASE BELOW 1 GHz

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



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

VERTICAL PLOT



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.145	27.89	PK	19.1	-32.1	14.89	40	-25.11	0-360	200	H
7	37.905	40.54	PK	15.5	-32	24.04	40	-15.96	0-360	100	V
2	70.5025	36.65	PK	8.1	-31.8	12.95	40	-27.05	0-360	200	H
8	70.5025	40.83	PK	8.1	-31.8	17.13	40	-22.87	0-360	100	V
9	179.9825	40.58	PK	11.2	-31.2	20.58	43.52	-22.94	0-360	100	V
3	180.025	42.52	PK	11.2	-31.2	22.52	43.52	-21	0-360	200	H
4	463.7	34.6	PK	17.1	-30.5	21.2	46.02	-24.82	0-360	400	H
10	602.3	40.17	PK	18.7	-30.3	28.57	46.02	-17.45	0-360	100	V
5	603.5	35.87	PK	18.7	-30.2	24.37	46.02	-21.65	0-360	300	H
11	680.4	41.17	PK	19.9	-30	31.07	46.02	-14.95	0-360	100	V
6	684	33.45	PK	20	-30.1	23.35	46.02	-22.67	0-360	100	H

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

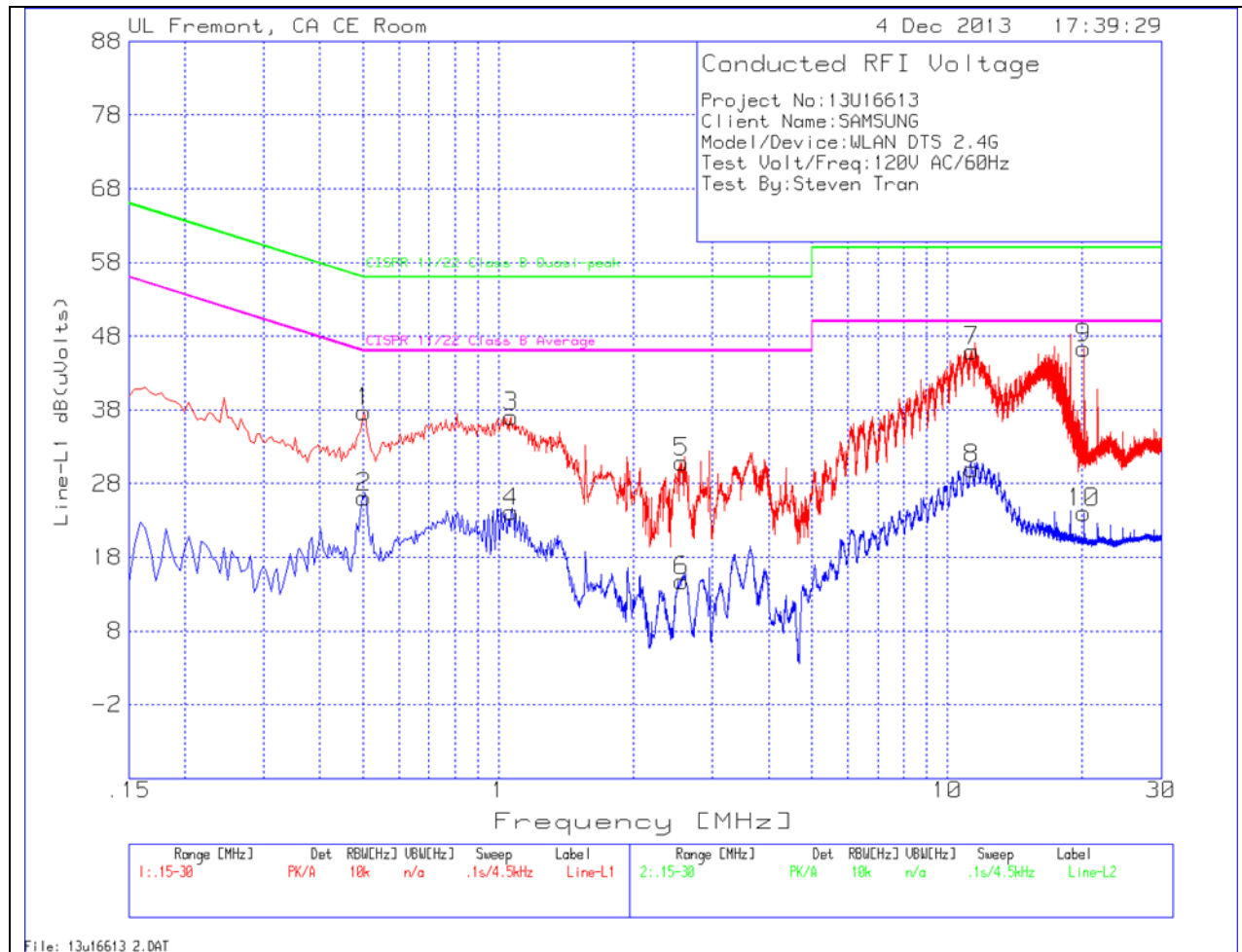
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
1	.501	37.63	PK	.1	0	37.73	56	-18.27	-	-
2	.501	26.04	Av	.1	0	26.14	-	-	46	-19.86
3	1.068	37.02	PK	.1	0	37.12	56	-18.88	-	-
4	1.068	24.02	Av	.1	0	24.12	-	-	46	-21.88
5	2.562	30.71	PK	.1	.1	30.91	56	-25.09	-	-
6	2.562	14.62	Av	.1	.1	14.82	-	-	46	-31.18
7	11.328	45.66	PK	.1	.2	45.96	60	-14.04	-	-
8	11.328	29.74	Av	.1	.2	30.04	-	-	50	-19.96
9	20.166	45.81	PK	.3	.2	46.31	60	-13.69	-	-
10	20.166	23.53	Av	.3	.2	24.03	-	-	50	-25.97

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)
11	.483	35.24	PK	.1	0	35.34	56.3	-20.96	-	-
12	.483	16.63	Av	.1	0	16.73	-	-	46.3	-29.57
13	1.3605	36.38	PK	.1	.1	36.58	56	-19.42	-	-
14	1.3605	18.03	Av	.1	.1	18.23	-	-	46	-27.77
15	2.8455	32.53	PK	.1	.1	32.73	56	-23.27	-	-
16	2.8455	17.17	Av	.1	.1	17.37	-	-	46	-28.63
17	18.384	55.73	PK	.2	.2	56.13	60	-3.87	-	-
18	18.384	28.03	Av	.2	.2	28.43	-	-	50	-21.57

LINE 1 RESULTS



LINE 2 RESULTS

