



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-247 ISSUE 1**

CERTIFICATION TEST REPORT

FOR

802.11b/g/n/a/ac WLAN + Bluetooth PCI-E NGFF 2230 Card

MODEL NUMBER: BCM94350ZAE

**FCC ID: QDS-BRCM1087
IC: 4324A-BRCM1087**

REPORT NUMBER: 15U20280-E56 Revision A

ISSUE DATE: JULY 9, 2015

Prepared for
**BROADCOM CORPORATION
190 MATHILDA PLACE
SUNNYVALE, CA 94086, U.S.A.**

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



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	6/26/15	Initial Issue	H. Mustapha
A	7/09/15	Updated "DATE TESTED" on page 5 Updated antenna information in section 5.3 Updated deviation statement in section 2 to indicate "ANSI 63.10-2013" Updated list of test reductions (antenna port) on page 10	H. Mustapha

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	7
4.1. MEASURING INSTRUMENT CALIBRATION	7
4.2. SAMPLE CALCULATION	7
4.3. MEASUREMENT UNCERTAINTY	8
5. EQUIPMENT UNDER TEST	9
5.1. DESCRIPTION OF EUT	9
5.2. MAXIMUM OUTPUT POWER	9
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	11
5.4. SOFTWARE AND FIRMWARE	11
5.5. WORST-CASE CONFIGURATION AND MODE	12
5.6. DESCRIPTION OF TEST SETUP	13
6. TEST AND MEASUREMENT EQUIPMENT	15
7. MEASUREMENT METHODS	16
8. ANTENNA PORT TEST RESULTS	17
8.1. ON TIME AND DUTY CYCLE	17
8.2. DUTY CYCLE PLOTS	18
8.3. 802.11b CDD 2TX MODE IN THE 2.4 GHz BAND	22
8.3.1. 6 dB BANDWIDTH	22
8.3.1. 99% BANDWIDTH	26
8.3.2. OUTPUT POWER	30
8.3.3. POWER SPECTRAL DENSITY	32
8.3.4. OUT-OF-BAND EMISSIONS	36
8.4. 802.11g LEGACY 1TX MODE IN THE 2.4 GHz BAND	45
8.4.1. OUTPUT POWER	45
8.5. 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND	47
8.5.1. OUTPUT POWER	47
8.6. 802.11n HT20 CDD 2TX MODE IN THE 2.4 GHz BAND	49
8.6.1. 6 dB BANDWIDTH	49
8.6.2. 99% BANDWIDTH	53
8.6.3. OUTPUT POWER	57
8.6.4. POWER SPECTRAL DENSITY	59
8.6.5. OUT-OF-BAND EMISSIONS	63
8.7. 802.11n HT20 TxBF 2TX MODE IN THE 2.4 GHz BAND	72

8.7.1.	OUTPUT POWER	72
8.8.	802.11n HT40 SISO MODE IN THE 2.4 GHz BAND.....	74
8.8.1.	OUTPUT POWER	74
8.9.	802.11n HT40 CDD 2TX MODE IN THE 2.4 GHz BAND	76
8.9.1.	6 dB BANDWIDTH.....	76
8.9.2.	99% BANDWIDTH.....	80
8.9.3.	OUTPUT POWER	84
8.9.4.	POWER SPECTRAL DENSITY	86
8.9.5.	OUT-OF-BAND EMISSIONS	90
8.10.	802.11n HT40 TxBF 2TX MODE IN THE 2.4 GHz BAND.....	99
8.10.1.	OUTPUT POWER.....	99
9.	RADIATED TEST RESULTS.....	101
9.1.	LIMITS AND PROCEDURE	101
9.2.	TX ABOVE 1 GHz 802.11b 2Tx MODE IN THE 2.4 GHz BAND	102
9.3.	TX ABOVE 1 GHz 802.11g LEGACY MODE IN THE 2.4 GHz BAND	112
9.4.	TX ABOVE 1 GHz 802.11n HT20 CDD SISO MODE IN THE 2.4 GHz BAND.....	118
9.5.	TX ABOVE 1 GHz 802.11n HT20 CDD 2Tx MODE IN THE 2.4 GHz BAND	124
9.6.	TX ABOVE 1 GHz 802.11ac HT20 TxBF 2Tx MODE IN THE 2.4 GHz BAND.....	136
9.7.	TX ABOVE 1 GHz 802.11n HT40 CDD 1Tx MODE IN THE 2.4 GHz BAND	148
9.8.	TX ABOVE 1 GHz 802.11n HT40 CDD 2Tx MODE IN THE 2.4 GHz BAND	154
9.9.	TX ABOVE 1 GHz 802.11ac HT40 TxBF 2Tx MODE IN THE 2.4 GHz BAND.....	166
9.10.	WORST-CASE 18-26 GHz.....	178
9.11.	WORST-CASE BELOW 1 GHz	179
10.	AC POWER LINE CONDUCTED EMISSIONS	180
11.	SETUP PHOTOS	184

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BROADCOM CORPORATION
190 MATHILDA PLACE
SUNNYVALE, CA 94086, U.S.A.

EUT DESCRIPTION: 802.11b/g/n/a/ac WLAN + Bluetooth PCI-E NGFF 2230 Card

MODEL: BCM94350ZAE

SERIAL NUMBER: Radiated: P215, SN: 404
Conducted: P15, SN: 398

DATE TESTED: MAY 1, 2015 – JUNE 25, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-247 Issue 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

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

Approved & Released For
UL Verification Services Inc. By:

Tested By:

Huda Mustapha



HUDA MUSTAPHA
PROJECT LEAD
UL Verification Services Inc.

Jeffrey Wu
EMC ENGINEER
UL Verification Services Inc.



FRANK IBRAHIM
PROGRAM MANAGER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, RSS-GEN Issue 4, RSS-247 Issue 1, and KDB 558074 D01 v03r03.

Deviation from the above cited ANSI C63.10-2013 standard: the EUT was test at 0.8 m height for all radiated testing.

3. FACILITIES AND ACCREDITATION

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

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☒ Chamber A	☐ Chamber D
☒ Chamber B	☐ Chamber E
☐ Chamber C	☐ Chamber F
	☐ Chamber G
	☐ Chamber H

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.52 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.94 dB
Radiated Disturbance, 1 to 6 GHz	± 3.86 dB
Radiated Disturbance, 6 to 18 GHz	± 4.23 dB
Radiated Disturbance, 18 to 26 GHz	± 5.30 dB
Radiated Disturbance, 26 to 40 GHz	± 5.23 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11b/g/n/a/ac WLAN + Bluetooth PCI-E NGFF2230 Card

The radio module is manufactured by Broadcom.

5.2. MAXIMUM OUTPUT POWER

2400 - 2483.5 MHz Authorized Frequency Band					
Frequency Range (MHz)	Mode	Power, Chain 0 (dBm)	Power, Chain 1 (dBm)	Total power (dBm)	Total power (mW)
2412 - 2472	802.11b CDD 2TX	19.50	19.70	22.61	182.45
2412 - 2472	802.11g Legacy 1TX	N/A	19.47	19.47	88.51
2413 - 2472	802.11n HT20 CDD 1Tx	N/A	19.54	19.54	89.95
2412 - 2472	802.11n HT20 CDD 2TX	19.00	18.90	21.96	157.06
2412 - 2472	802.11n HT20 TxBF 2TX	19.00	18.90	21.96	157.06
2422 - 2462	802.11n HT40 CDD 1TX	N/A	17.40	17.40	54.95
2422 - 2462	802.11n HT40 CDD 2TX	18.70	19.10	21.91	155.41
2422 - 2462	802.11n HT40 TxBF 2TX	18.70	19.10	21.91	155.41

List of test reduction and modes covering other modes:

2400 - 2483.5 MHz Authorized Frequency Band (Antenna Port Testing)		
Band	Mode	Covered by
2.4 GHz band	802.11b Legacy 1TX	802.11b CDD 2TX
2.4 GHz band	802.11g CDD 2TX	802.11n HT20 CDD 2TX
2.4 GHz band	802.11g BF 2TX	802.11n HT20 CDD 2TX
2.4 GHz band	802.11n HT20 BF 2TX	802.11n HT20 CDD 2TX
2.4 GHz band	802.11n HT40 BF 2TX	802.11n HT40 CDD 2TX

2400 - 2483.5 MHz Authorized Frequency Band (Radiated Testing)		
Band	Mode	Covered by
2.4 GHz band	802.11b Legacy 1TX	802.11b CDD 2TX
2.4 GHz band	802.11g Legacy 1TX (Harmonics)	802.11n HT20 CDD 2TX (Harmonics)
2.4 GHz band	802.11g CDD 2TX	802.11n HT20 CDD 2TX
2.4 GHz band	802.11g BF 2TX	802.11n HT20 BF 2TX

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The EUT utilizes the following antennas:

Antenna Manufacturer	Antenna Type	Model	Peak Gain (2400-2483.5 MHz)	Peak gain (5150-5250MHz) @5180MHz	Peak gain (5250-5350MHz) @5320MHz	Peak gain (5470-5725MHz) @5580	Peak gain (5725-5850MHz) @5745MHz
Ethertronics	802.11bgn WLAN Antenna	1000802	3.6	N/A	N/A	N/A	N/A
Ethertronics	802.11 5GHz WLAN Antenna	1000615a	N/A	3.3	4.0	6.0	4.7

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Broadcom, rev. 7.35 RC180.50 and Broadcom, rev. 7.35.RC218 (used for HT20 CH13 Radiated BE Testing)

The EUT driver software installed during testing was Broadcom, rev. 7.35.180.50 and Broadcom, rev. 7.35.218 (used for HT20 CH13 Radiated BE Testing)

The test utility software used during testing was Broadcom MTool, rev. 2.0.2.5.

5.5. WORST-CASE CONFIGURATION AND MODE

The EUT was tested as an external module installed in a test jig board connected to a host Laptop PC.

The EUT can only be setup in desktop orientation; therefore, all radiated testing was performed with the EUT in desktop orientation.

Radiated emission below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

For 2.4 GHz, band edge preliminary investigation showed that antenna port **J1**, horizontal polarization was worst case for CDD and SISO modes, therefore only horizontal polarization was tested for these modes.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11a mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0

For TxBF mode conducted testing, the bandwidth and duty cycle data were shared with CDD mode; the TxBF mode radiated portion has its own duty cycle.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
Laptop	Lenovo	Lenovo G560	CB08584349
AC / DC Adapter	Lenovo	PA-1650-56LC	N/A
Laptop	DELL	Latitude E6400	7WCBYH1
AC / DC Adapter	DELL	DA90PM111	N/A
PCle. Card	Broadcom	N/A	N/A

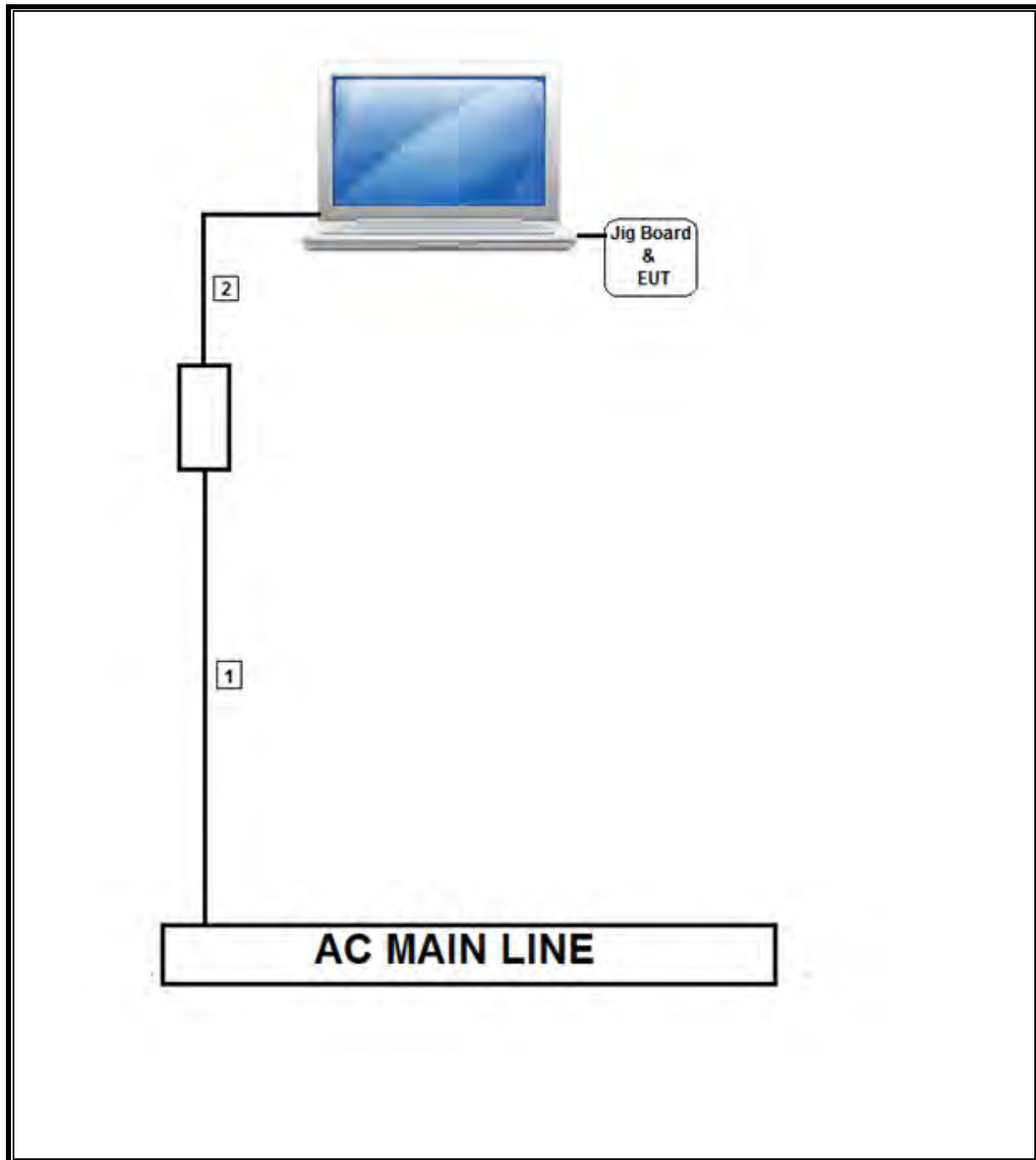
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	US115V	Unshielded	1	
2	DC	1	VDC	Unshielded	1.5	Ferrite on laptop end

TEST SETUP

The EUT was connected to a host laptop via PCIE card. Test software exercised the EUT.

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	T No.	Cal Date	Cal Due
Radiated Software	UL	UL EMC	Ver 9.5, June 6, 2015		
Conducted Software	UL	UL EMC	Ver 9.5, May 17 2012		
Bilog Antenna 30-1000MHz	Sunol	JB1	130	09/10/14	09/10/15
Horn Antenna 1-18GHz	ETS	3117	136	01/15/15	01/15/16
Horn Antenna 1-18GHz	ETS	3117	345	03/03/15	03/03/16
Horn Antenna 18-26GHz	ARA	SWH-28	98	12/17/14	12/17/15
Preamplifier 10kHz-1000MHz	Sonoma	310	300	11/01/14	11/01/15
Preamplifier 1-8GHz	Miteq	AMF-4D-01000	782	11/18/14	11/18/15
Preamplifier 1-18GHz	Miteq	AFS42-0010180	492	08/09/14	08/09/15
Preamplifier 1-26.5GHz	Agilent	8449B	404	04/13/15	04/13/16
Spectrum Analyzer 3kHz - 44GHz	Agilent	N9030A	908	09/05/14	09/05/15
Spectrum Analyzer 3kHz - 44GHz	Agilent	N9030A	907	05/15/15	05/15/16
Spectrum Analyzer 9kHz - 40GHz	HP	8564E	106	08/06/14	08/06/15
Coaxial Switchbox	Agilent	SP6T	927	09/15/14	09/15/15
3GHz HPF	Micro-Tronics	HPM17543	487	01/31/15	01/31/16
EMI Test Receiver	Rohde & Schwarz	ECSI 7	212	08/04/14	08/04/15
Spectrum Analyzer 3Hz to 44GHz	Agilent	E4440A	123	10/28/14	10/28/15
Power Meter	Agilent	N1911A	377	06/30/14	06/30/15
LISN for Conducted Emission	FCC	50/250-25-2	24	01/16/15	01/16/16
Power Sensor	Agilent	E9323A	400	05/05/15	05/05/16

7. MEASUREMENT METHODS

On Time and Duty Cycle: KDB 558074 D01 v03r03, Section 6.0.

6 dB BW: KDB 558074 D01 v03r03, Section 8.1.

99% BW: ANSI C63.10-2013, Section 6.9.3.

Output Power: KDB 558074 D01 v03r03, Section 9.2.3.2, and KDB 662911 D01 v02r01.

Power Spectral Density: KDB 558074 D01 v03r03, Section 10.3 and 10.5 and KDB 662911 D01 v02r01

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r03, Section 11.0.

Out-of-band emissions in restricted bands: KDB 558074 D01 v03r03, Section 12.1.

AC Power Line Conducted Emissions: ANSI C63.10-2009 and SNSI CV63.10-2013 Section 6.2.

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

ON TIME AND DUTY CYCLE RESULTS

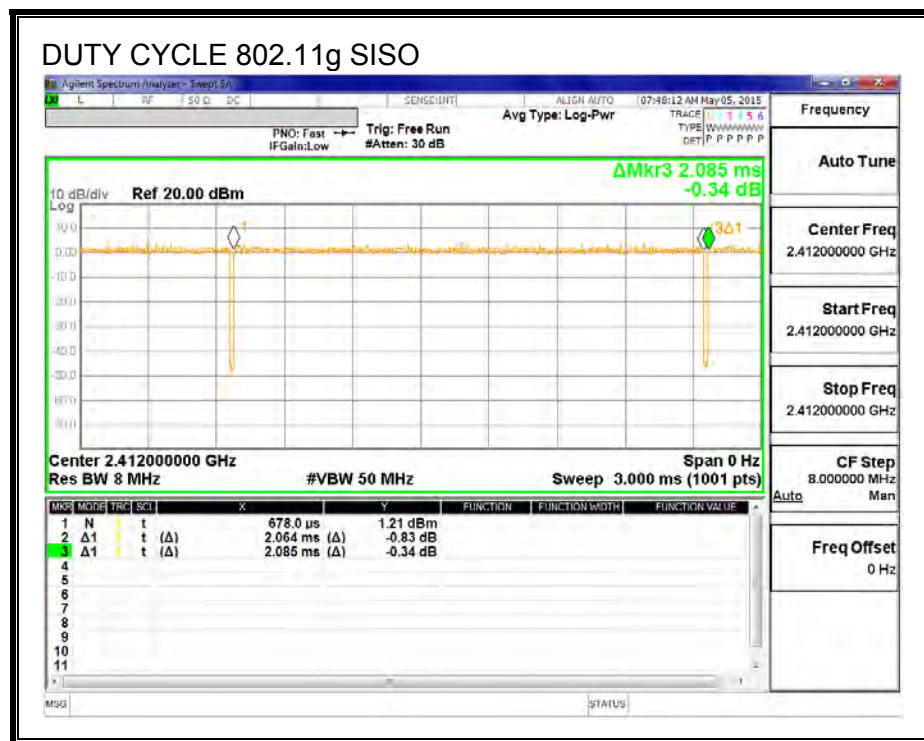
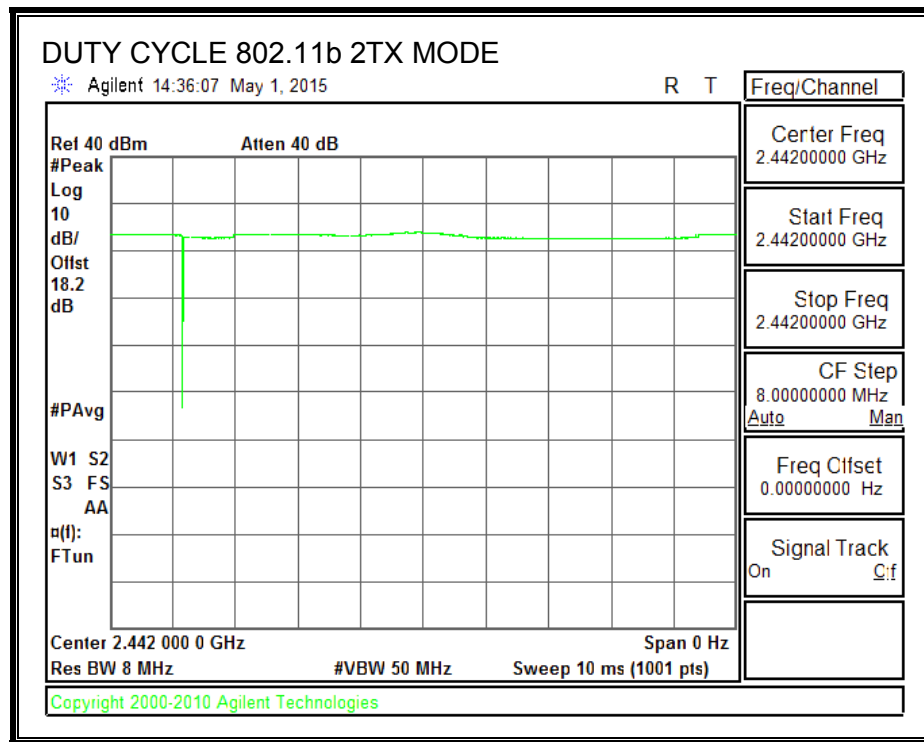
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b CDD 2TX	10.000	10.000	1.000	100.00%	0.00	0.010
802.11g 1TX	2.064	2.085	0.990	98.99%	0.00	0.010
802.11n HT20 CDD 2TX	1.920	1.941	0.989	98.92%	0.00	0.010
802.11ac HT20 TxBF 2TX	23.450	25.590	0.916	91.64%	0.38	0.043
802.11n HT40 CDD 2TX	0.942	0.966	0.975	97.52%	0.11	1.062
802.11ac HT40 TxBF 2TX	26.075	27.530	0.947	94.71%	0.24	0.038

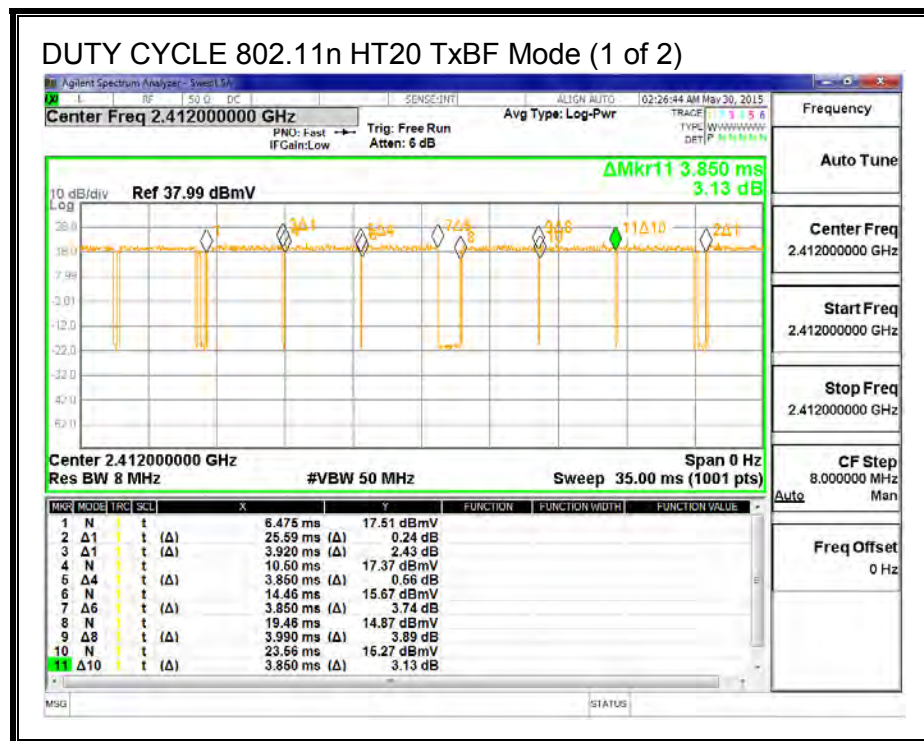
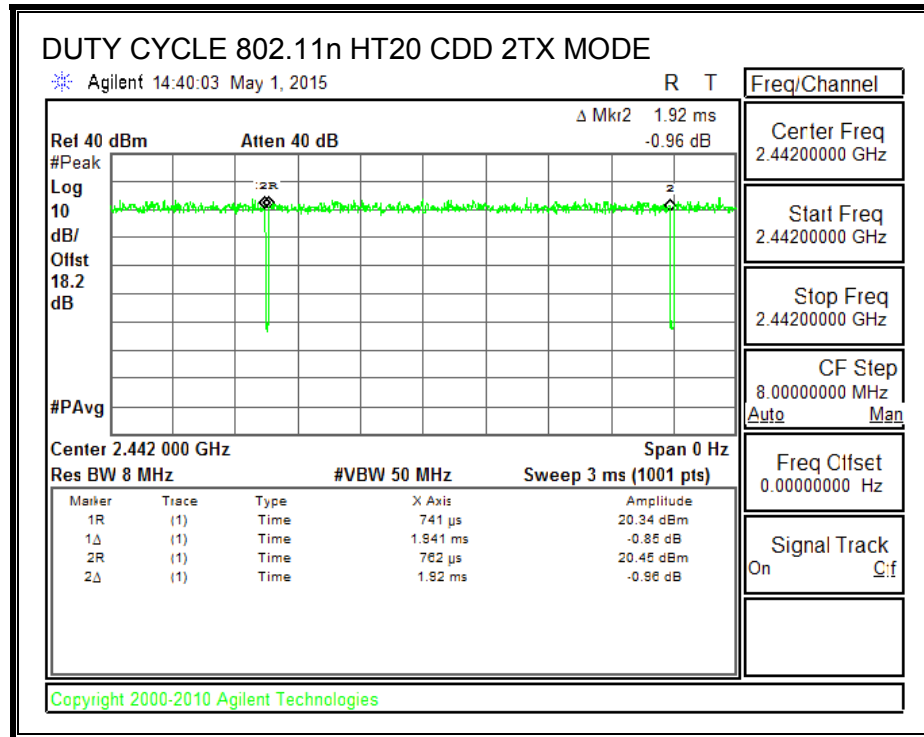
Note:

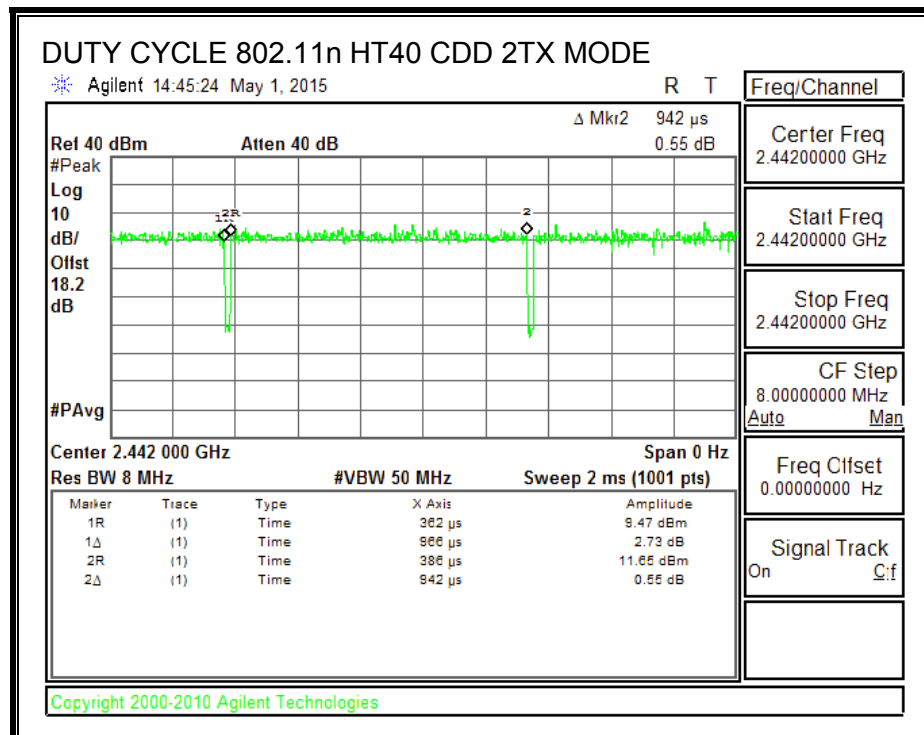
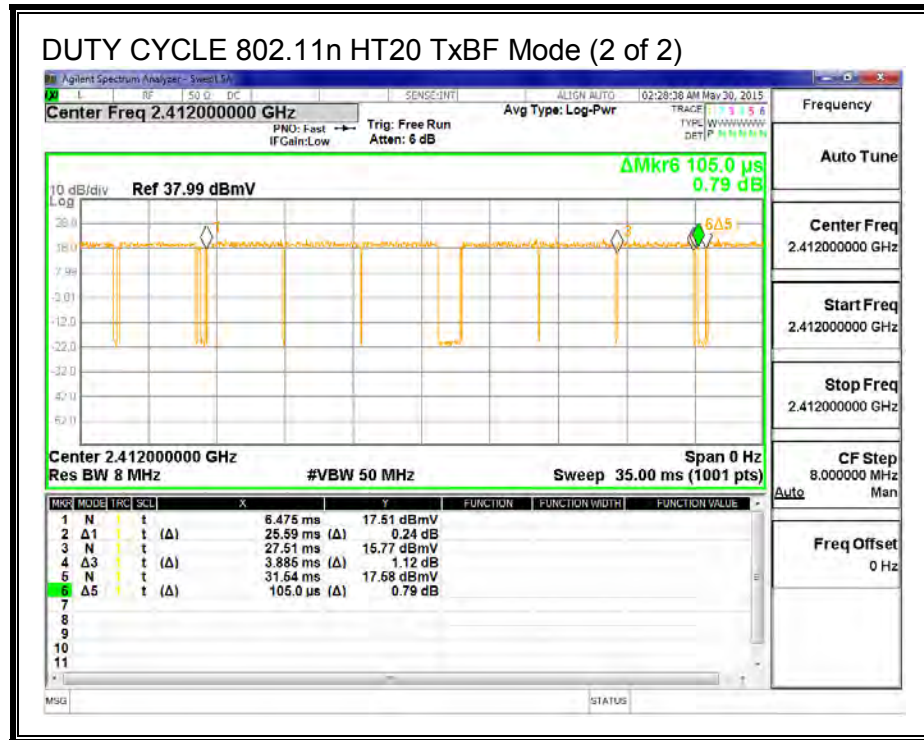
The duty cycle correction factors of CDD modes were used for antenna port beam-forming testing; however, the duty cycle correction factors of beam-forming modes were used for radiated emission of beam-forming modes.

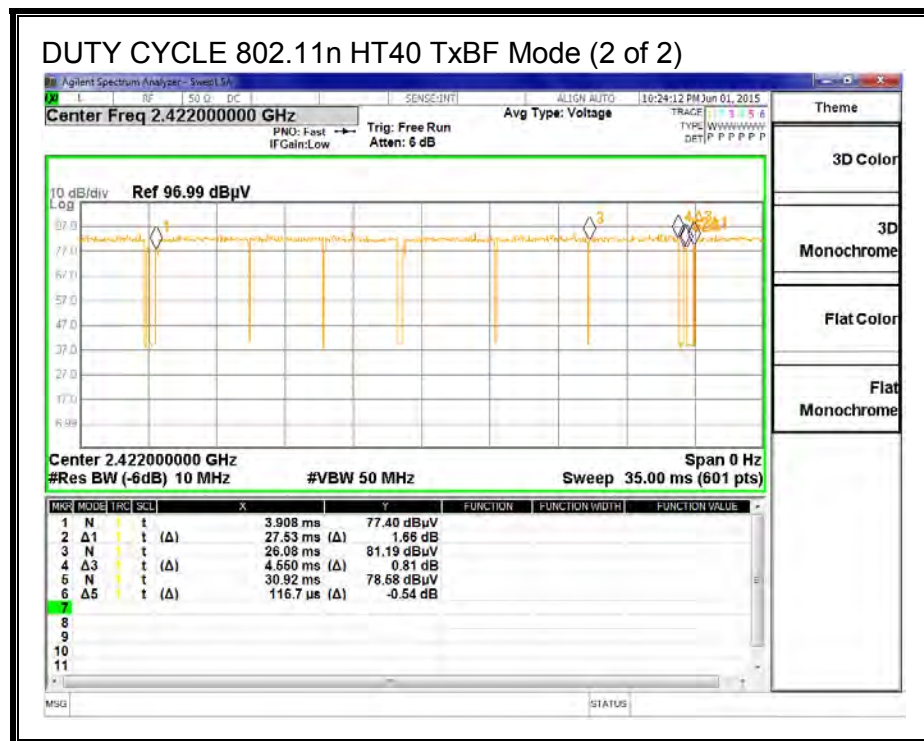
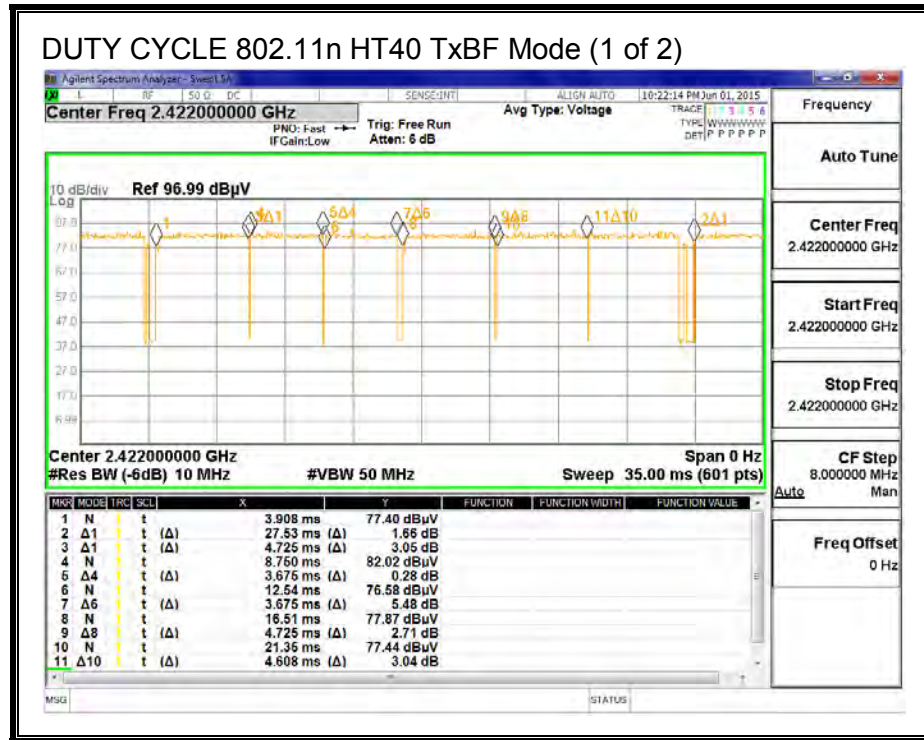
8.2. DUTY CYCLE PLOTS

2.4 GHz BAND









8.3. 802.11b CDD 2TX MODE IN THE 2.4 GHz BAND

8.3.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

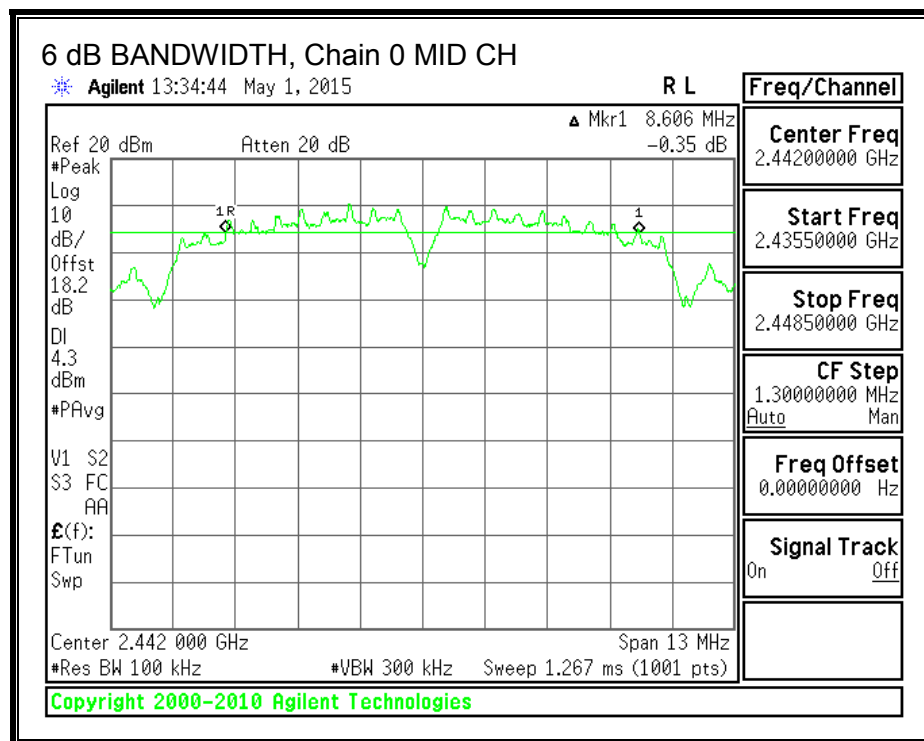
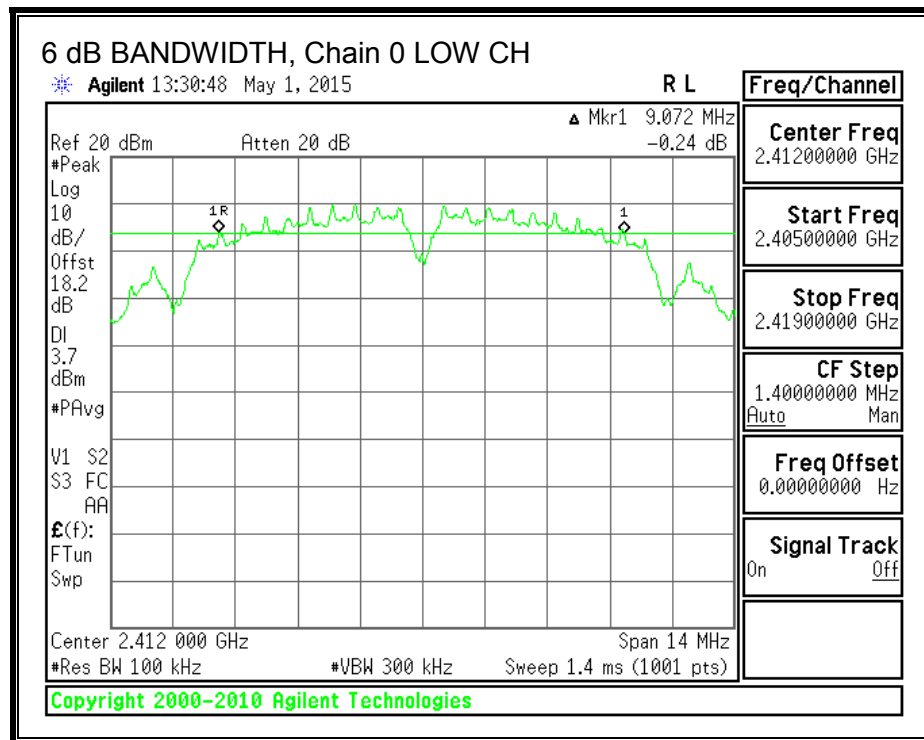
IC RSS-247 Clause 5.2 (1)

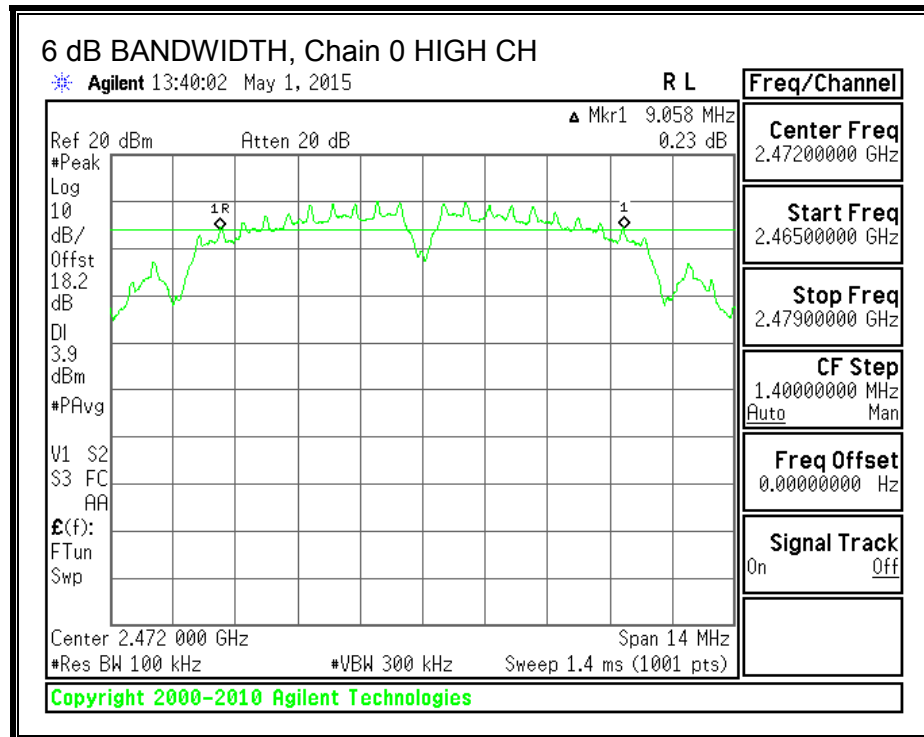
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

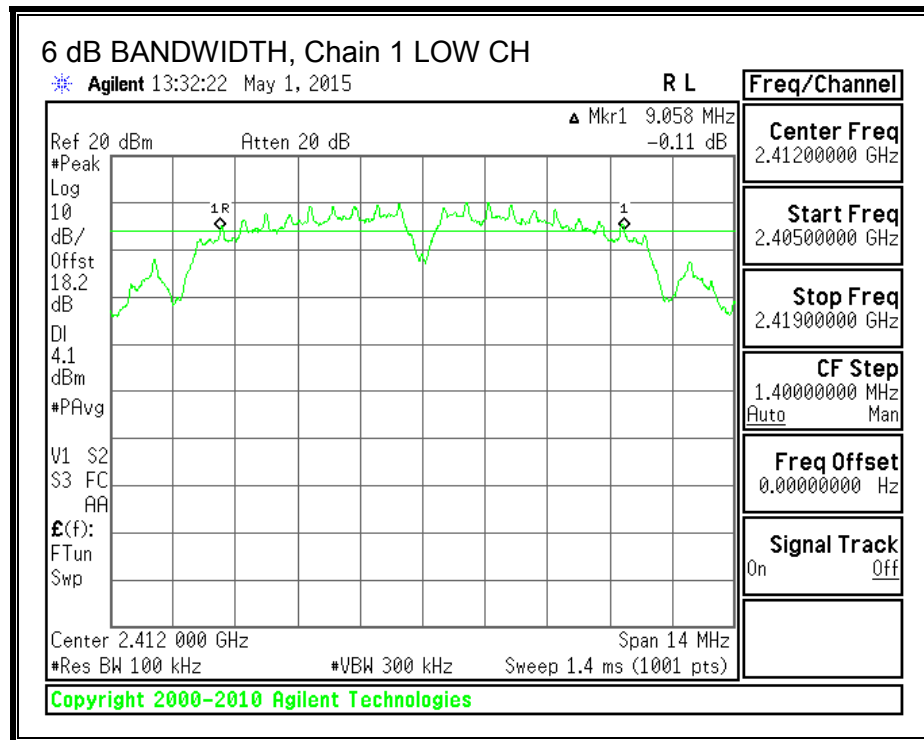
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	2412	9.072	9.058	0.5
Mid	2442	8.606	9.061	0.5
High	2472	9.058	9.086	0.5

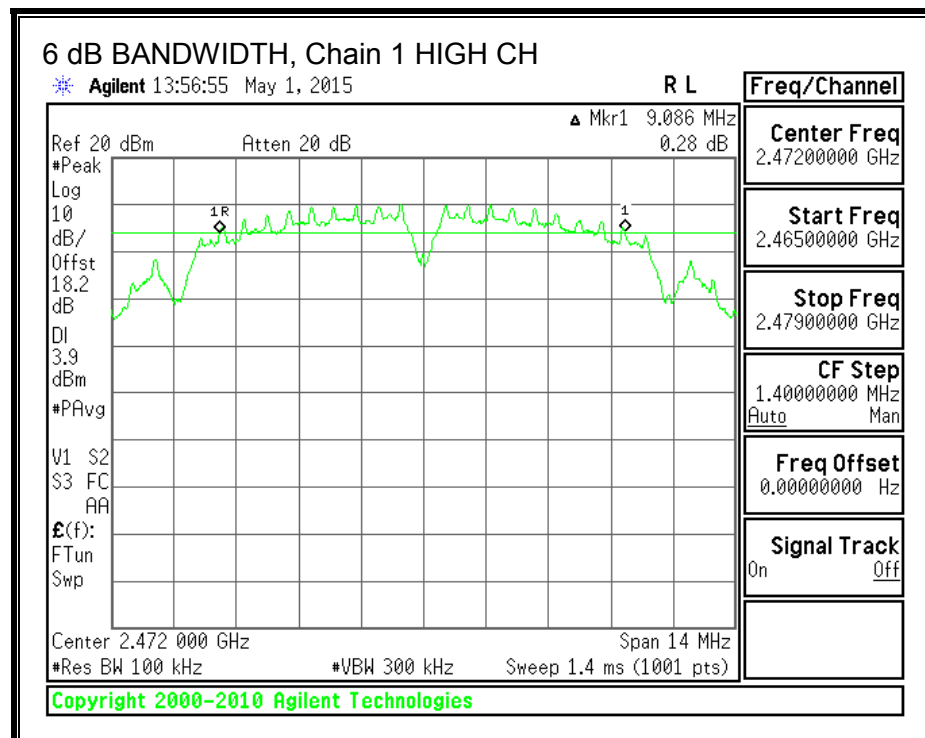
6 dB BANDWIDTH, Chain 0





6 dB BANDWIDTH, Chain 1





8.3.1. 99% BANDWIDTH

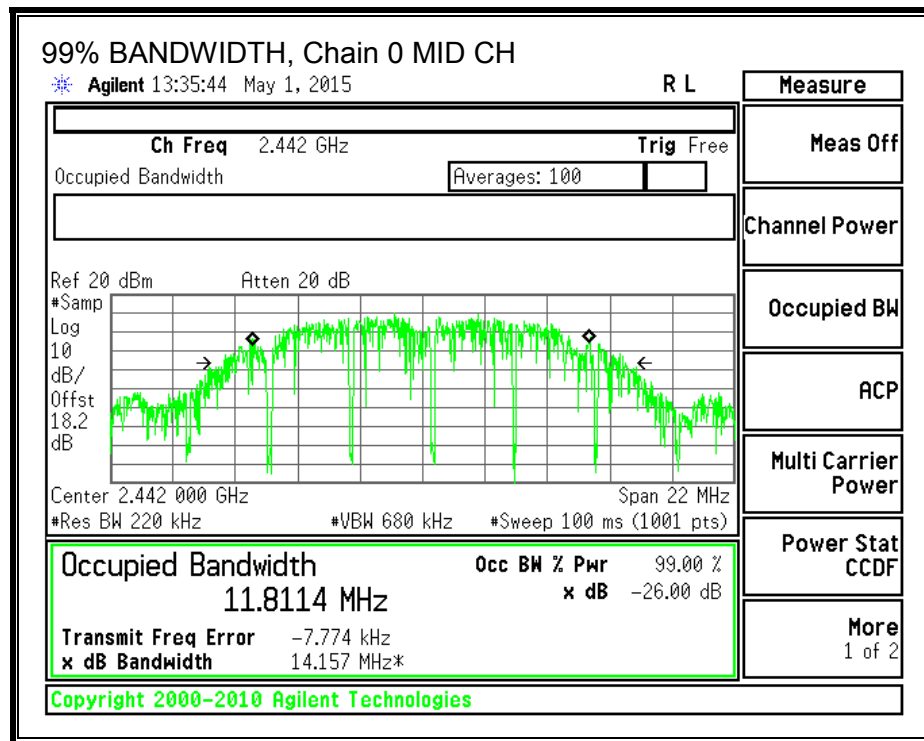
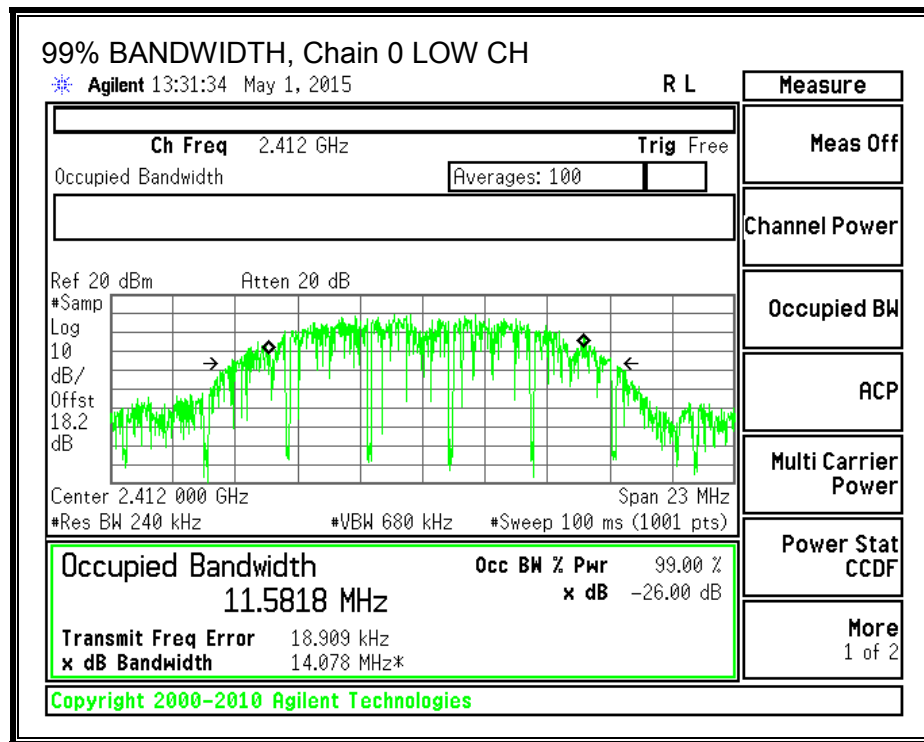
LIMITS

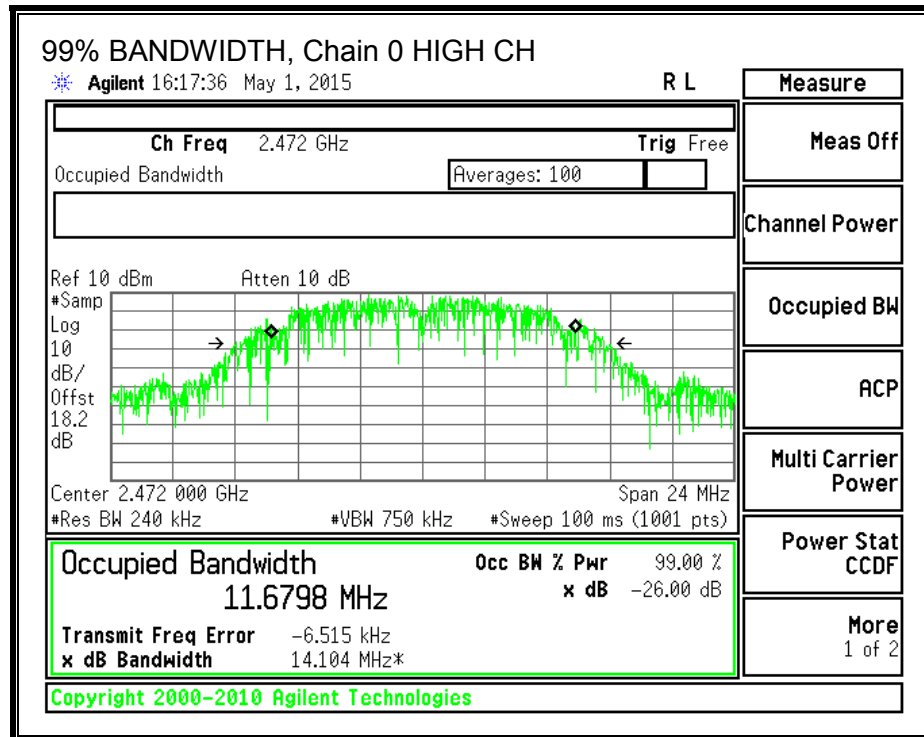
None; for reporting purposes only.

RESULTS

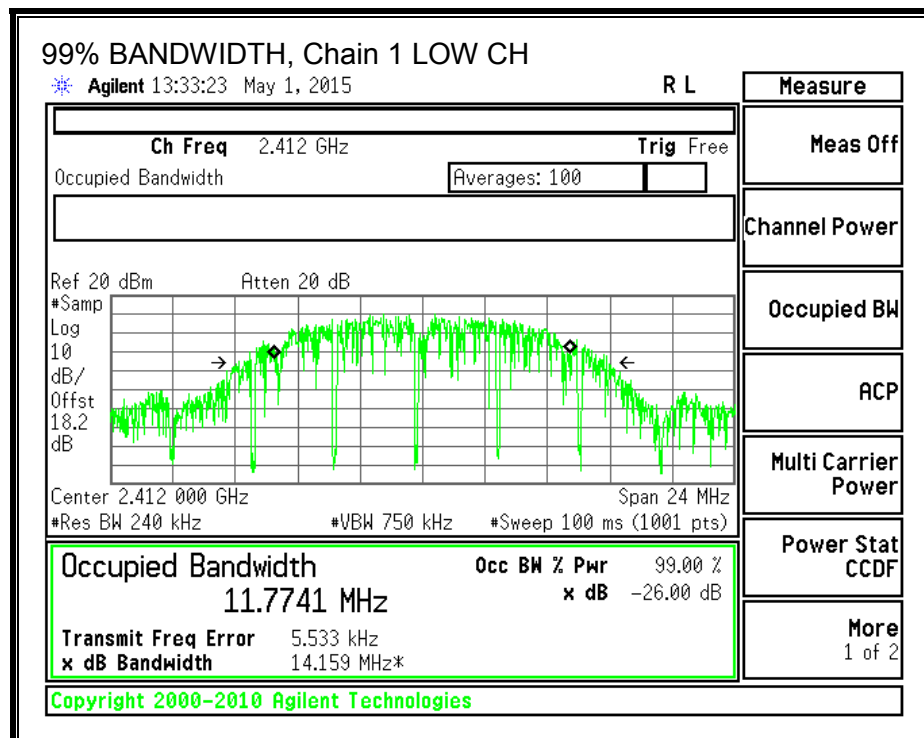
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	2412	11.5818	11.7741
Mid	2442	11.8114	11.6577
High	2472	11.6798	11.8327

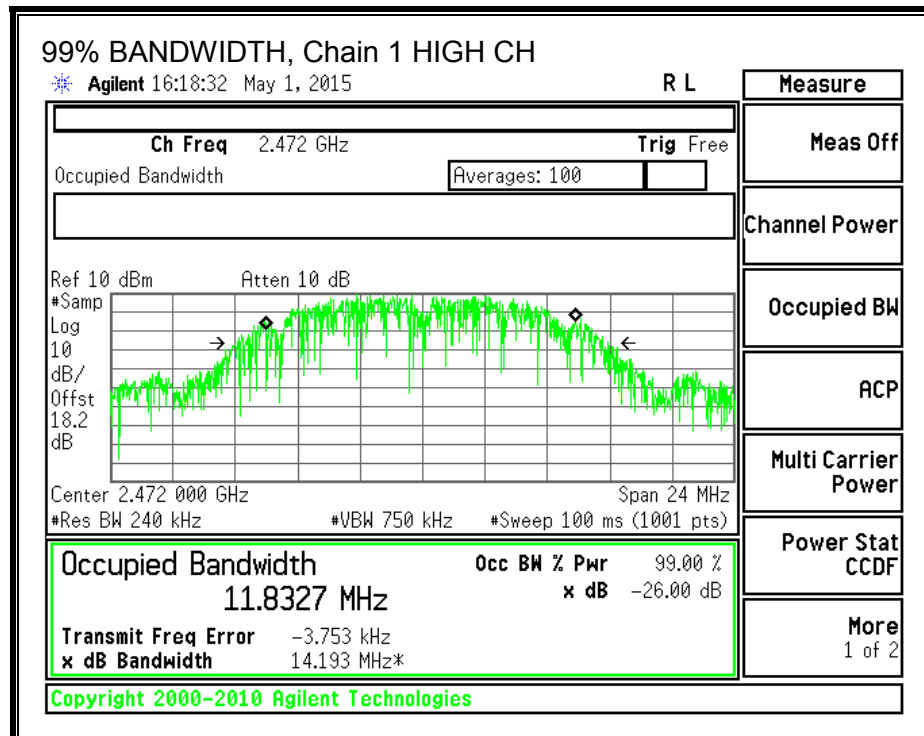
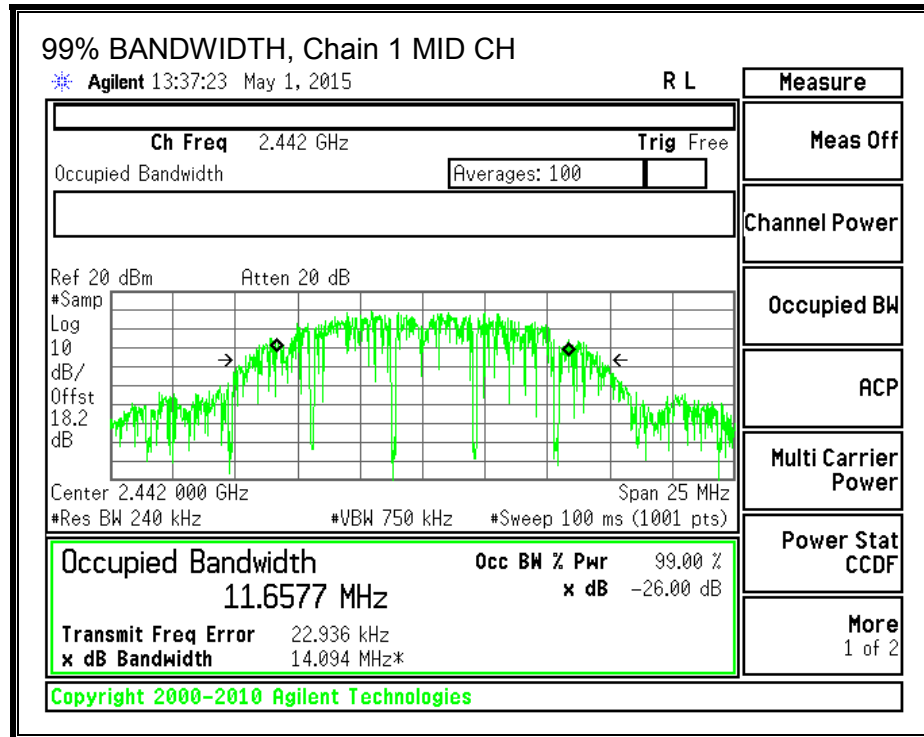
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1





8.3.2. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4(4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section 5.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
3.60	3.60	3.60

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
1	2412	3.60	30	30	36	30.00
2	2417	3.60	30	30	36	30.00
7	2442	3.60	30	30	36	30.00
11	2462	3.60	30	30	36	30.00
12	2467	3.60	30	30	36	30.00
13	2472	3.60	30	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
1	2412	19.50	19.60	22.56	30.00	-7.44
2	2417	19.50	19.60	22.56	30.00	-7.44
7	2442	19.50	19.70	22.61	30.00	-7.39
11	2462	19.42	19.72	22.58	30.00	-7.42
12	2467	19.51	19.68	22.61	30.00	-7.39
13	2472	15.52	15.43	18.49	30.00	-11.51

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.3.3. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 Clause 5.2(2)

The transmitter 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. This power spectral density shall be determined in accordance with the provisions of Section 5.4 (4), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

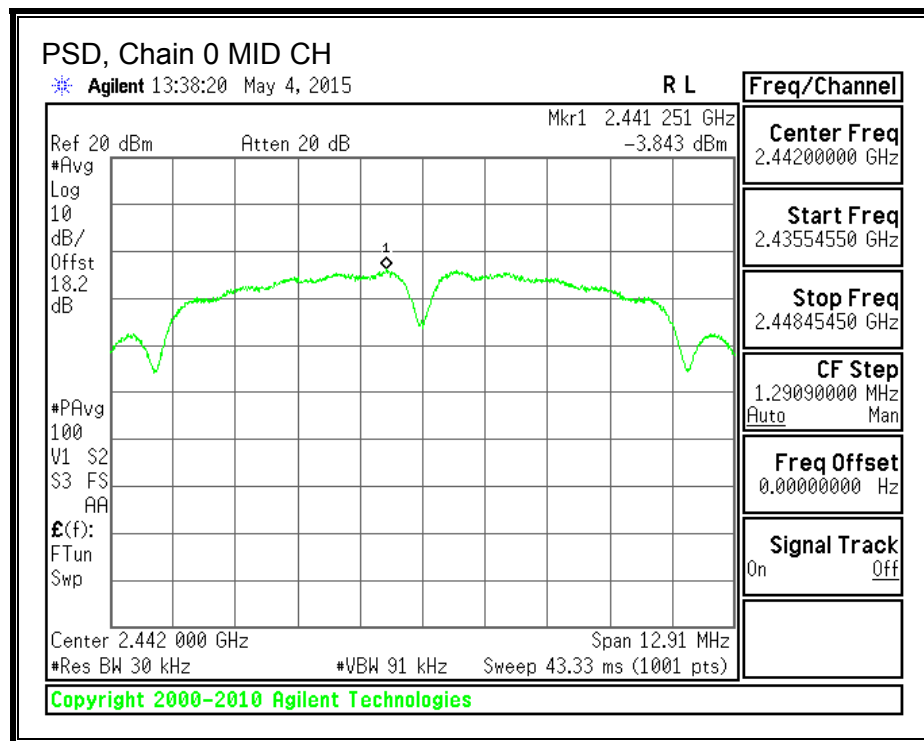
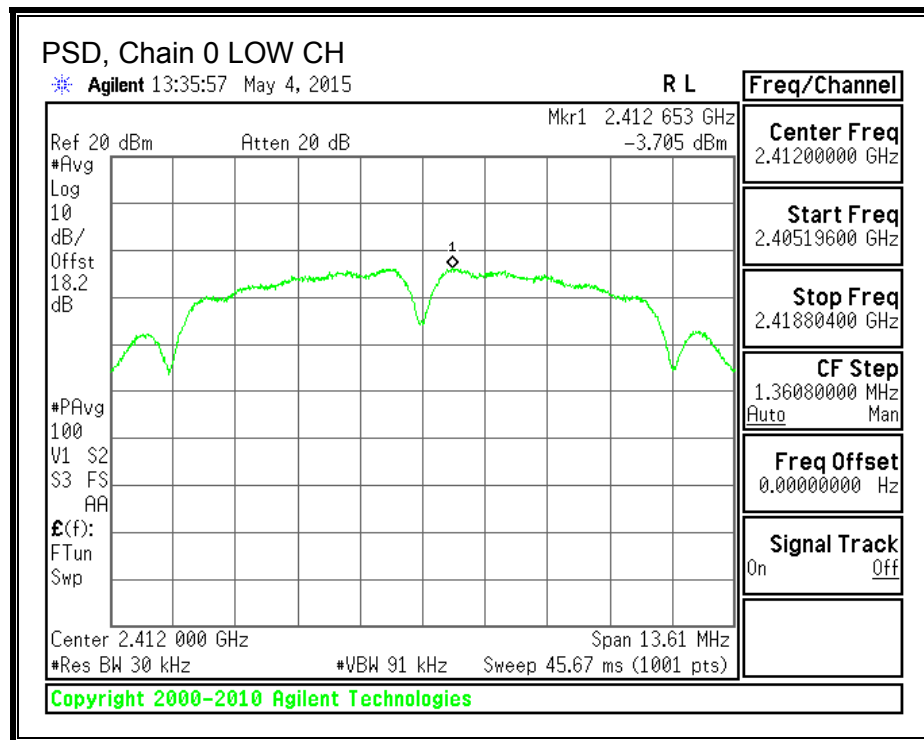
RESULTS

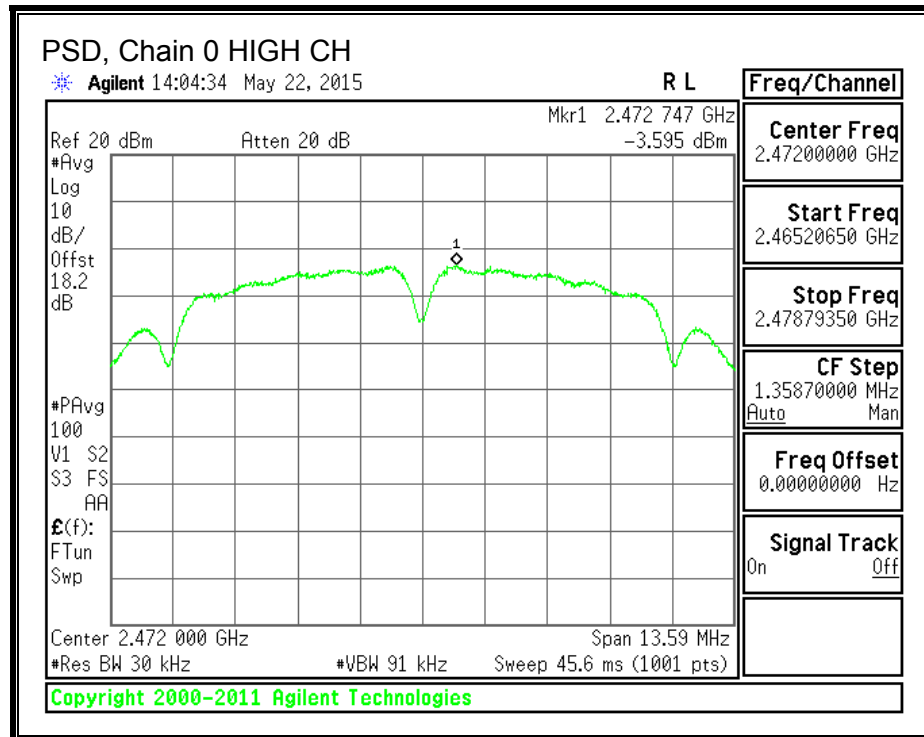
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

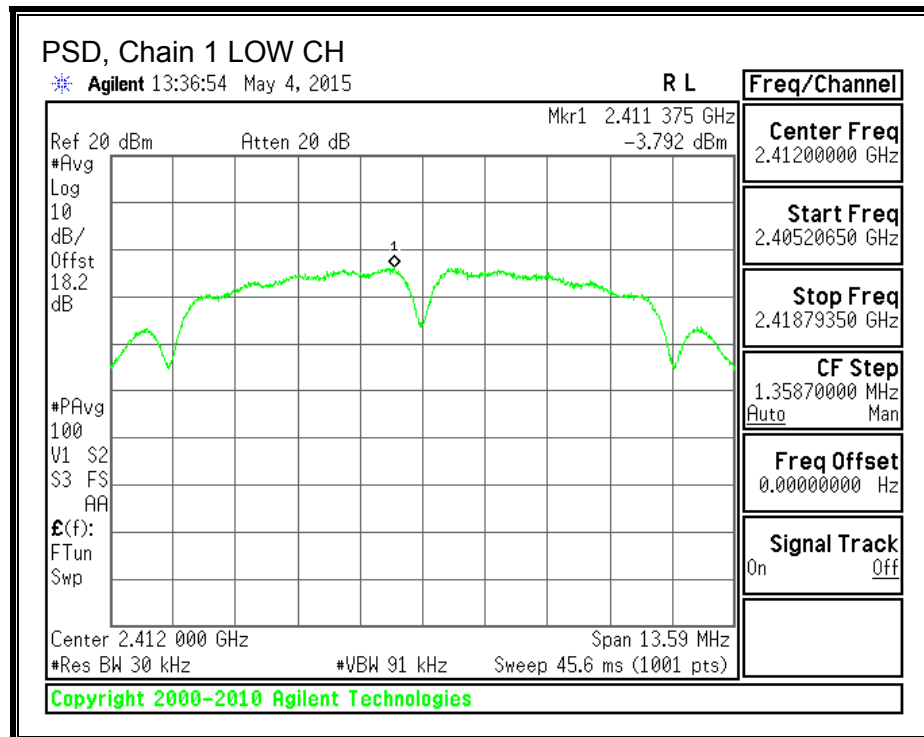
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-3.705	-3.792	-0.74	8.0	-8.7
Mid	2442	-3.843	-3.923	-0.87	8.0	-8.9
High	2472	-3.595	-2.898	-0.22	8.0	-8.2

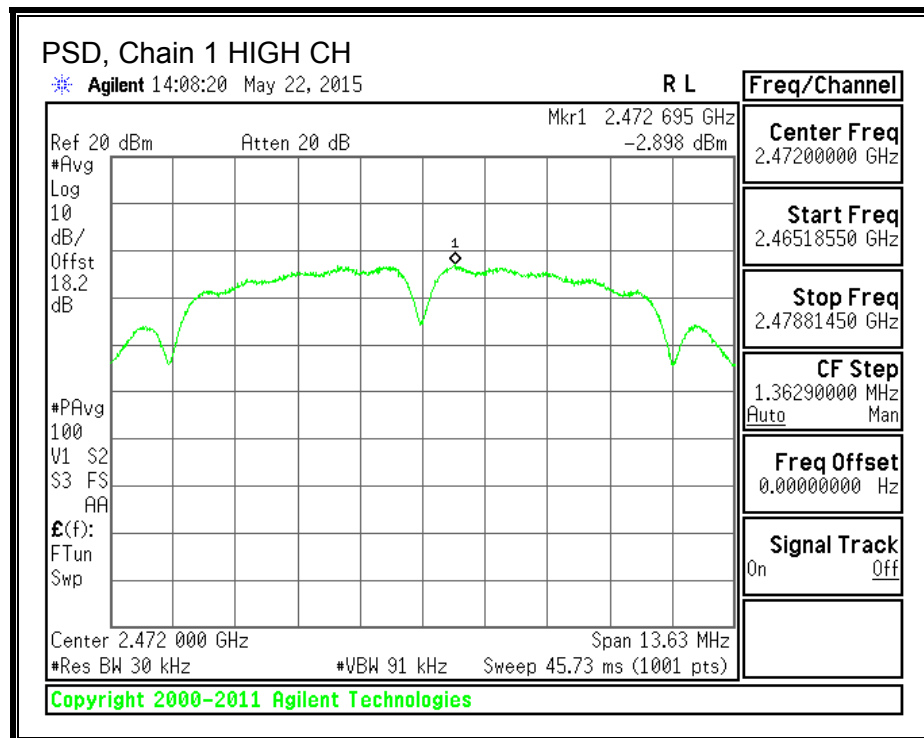
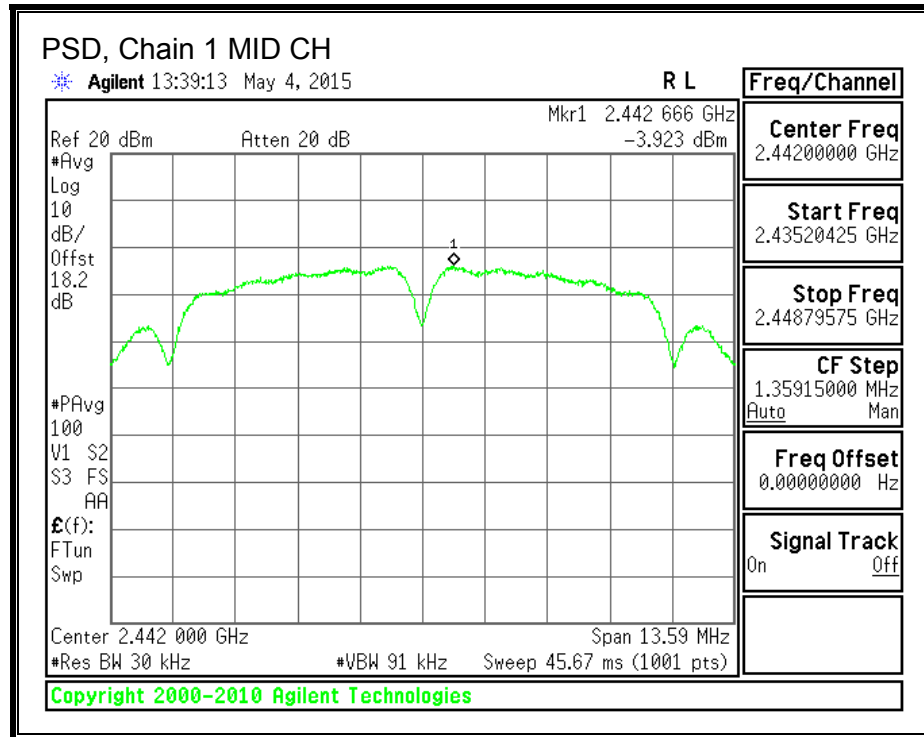
PSD, Chain 0





PSD, Chain 1





8.3.4. OUT-OF-BAND EMISSIONS

LIMITS

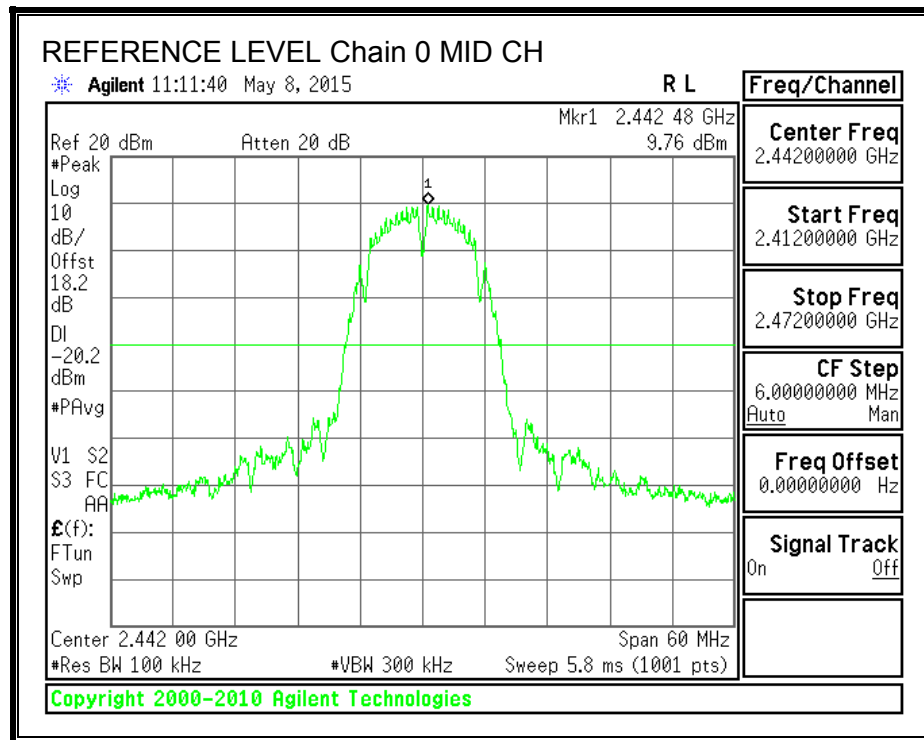
FCC §15.247 (d)

IC RSS-247 Clause 5.5

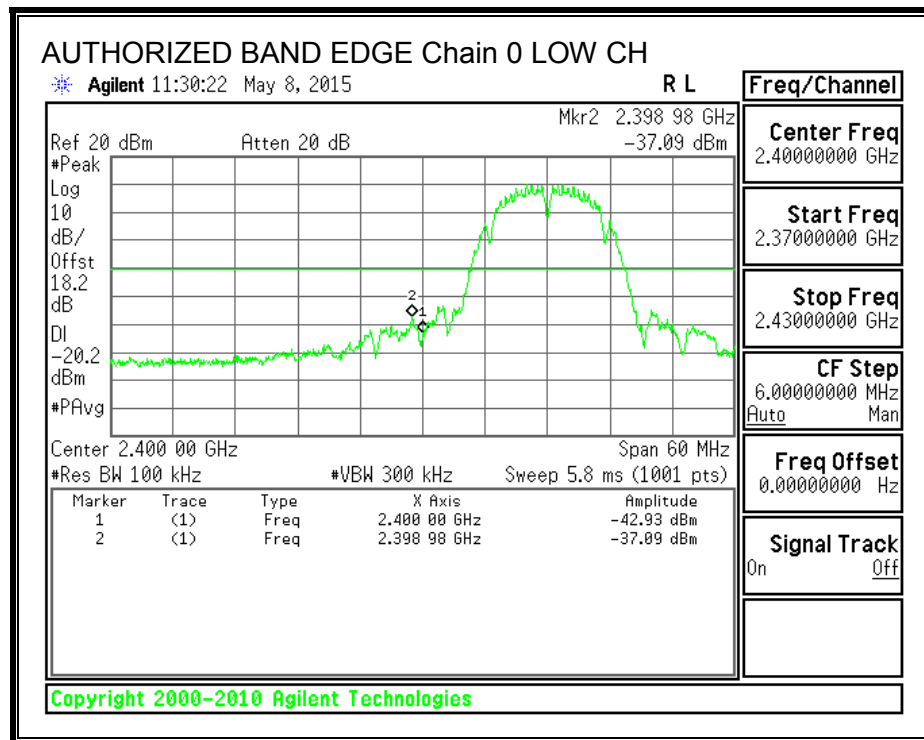
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

RESULTS

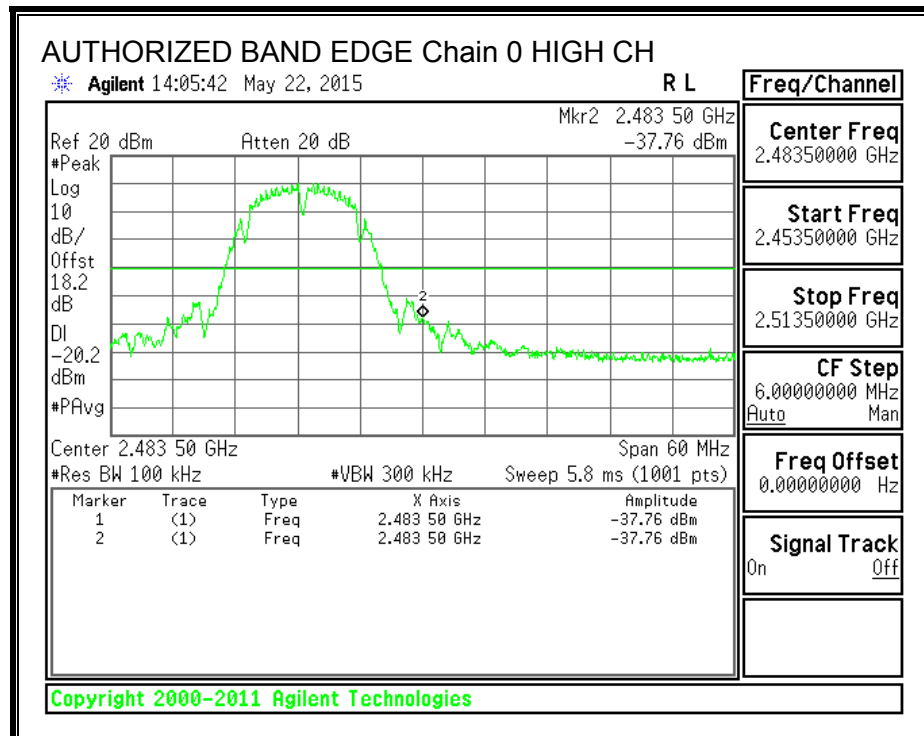
IN-BAND REFERENCE LEVEL, Chain 0



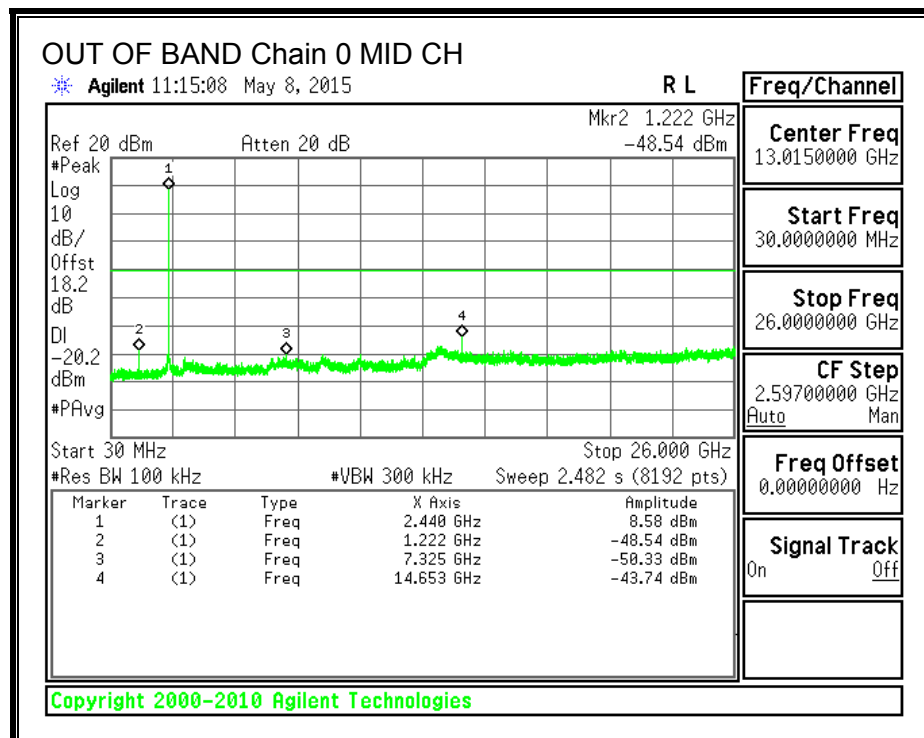
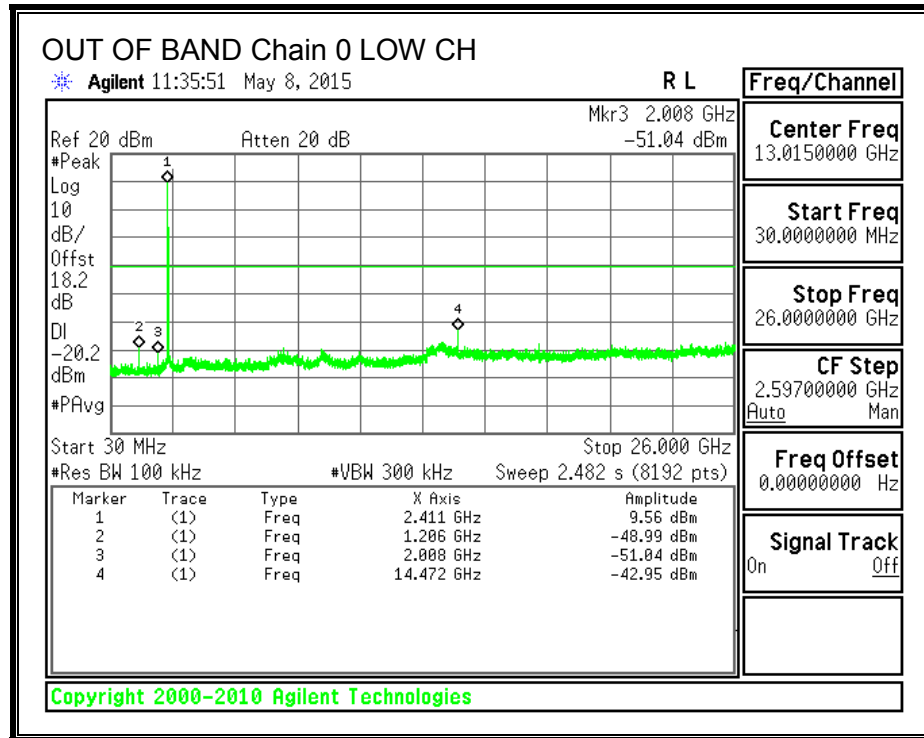
LOW CHANNEL BANDEDGE, Chain 0

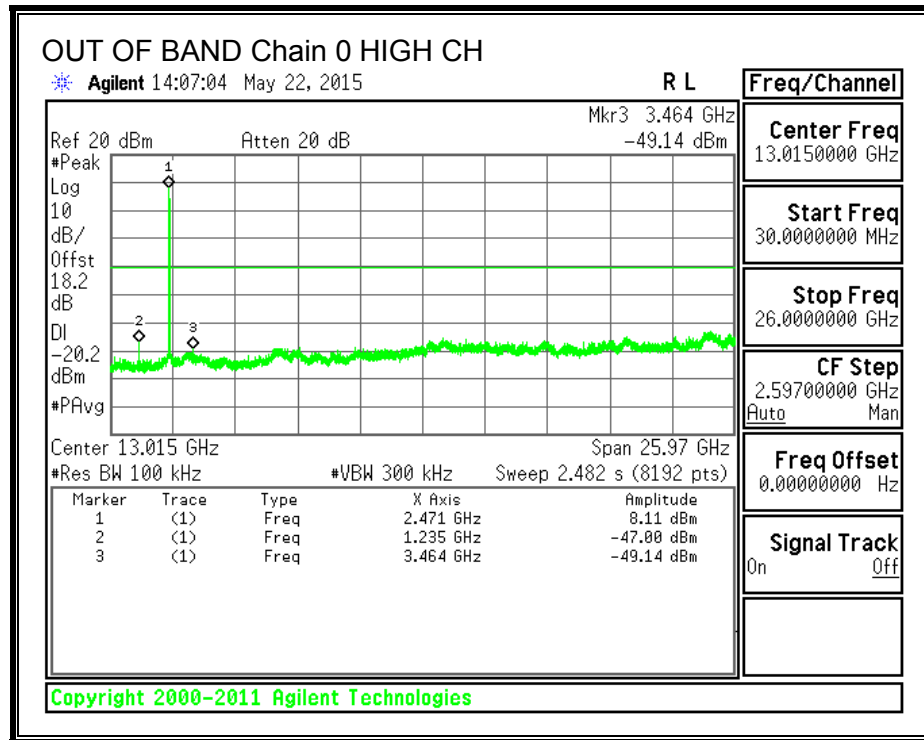


HIGH CHANNEL BANDEDGE, Chain 0

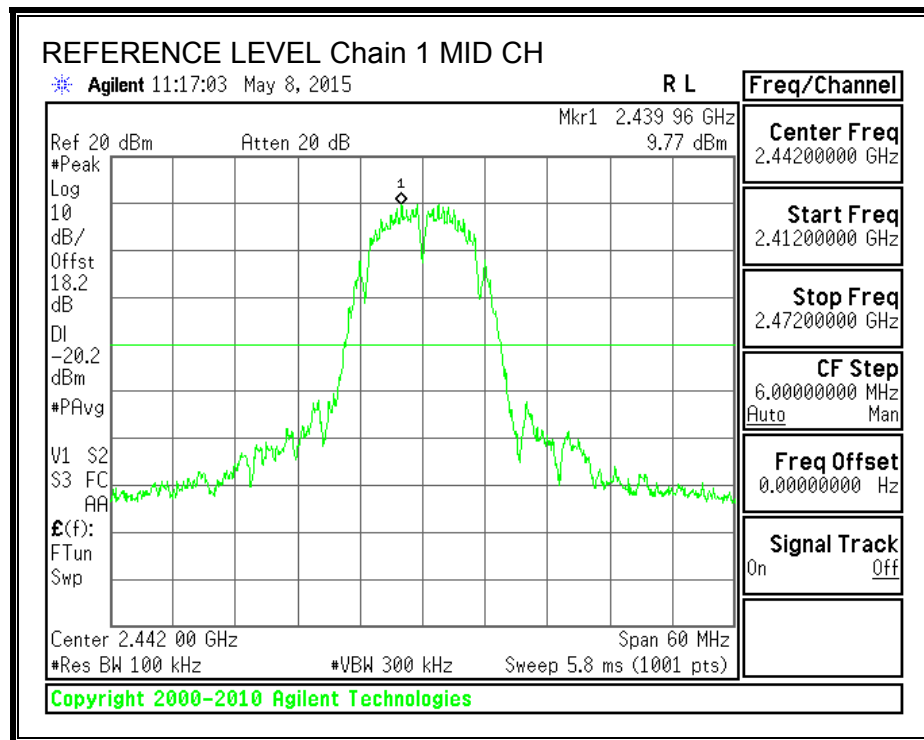


OUT-OF-BAND EMISSIONS, Chain 0

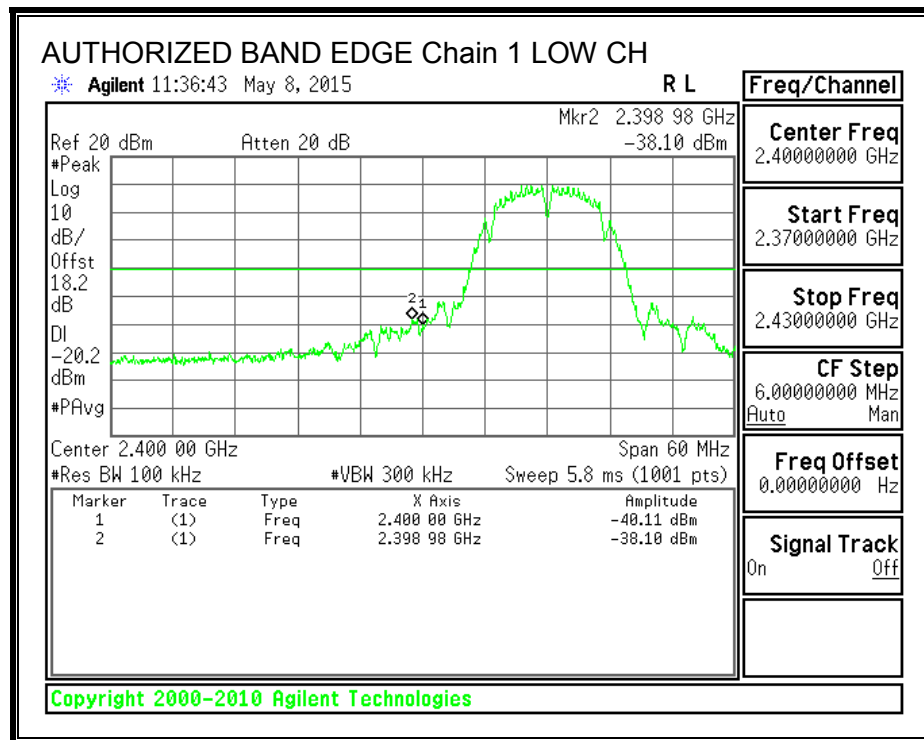




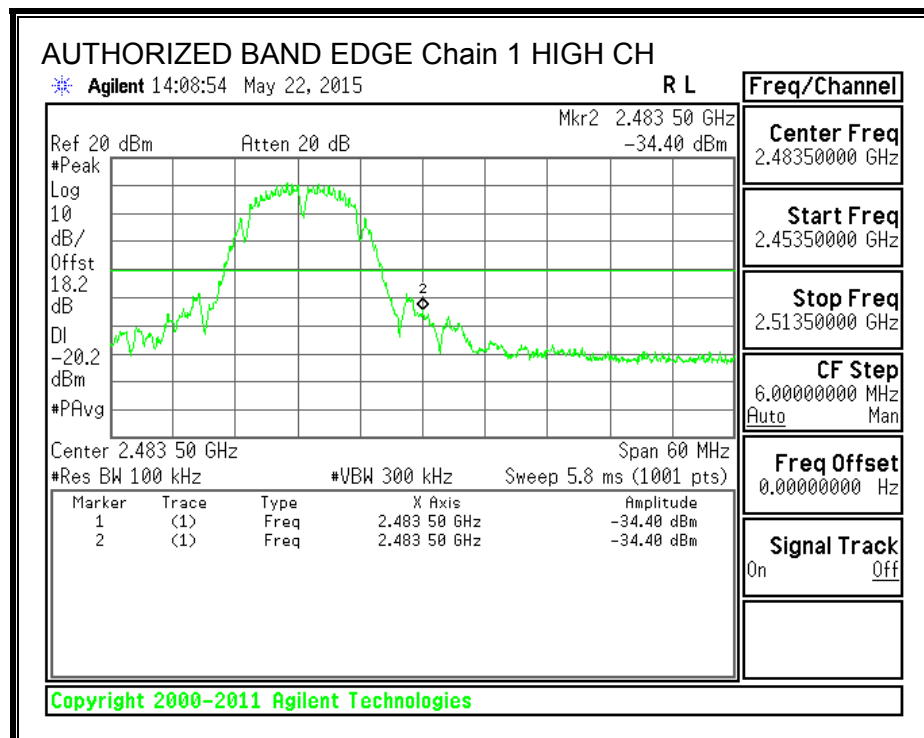
IN-BAND REFERENCE LEVEL, Chain 1



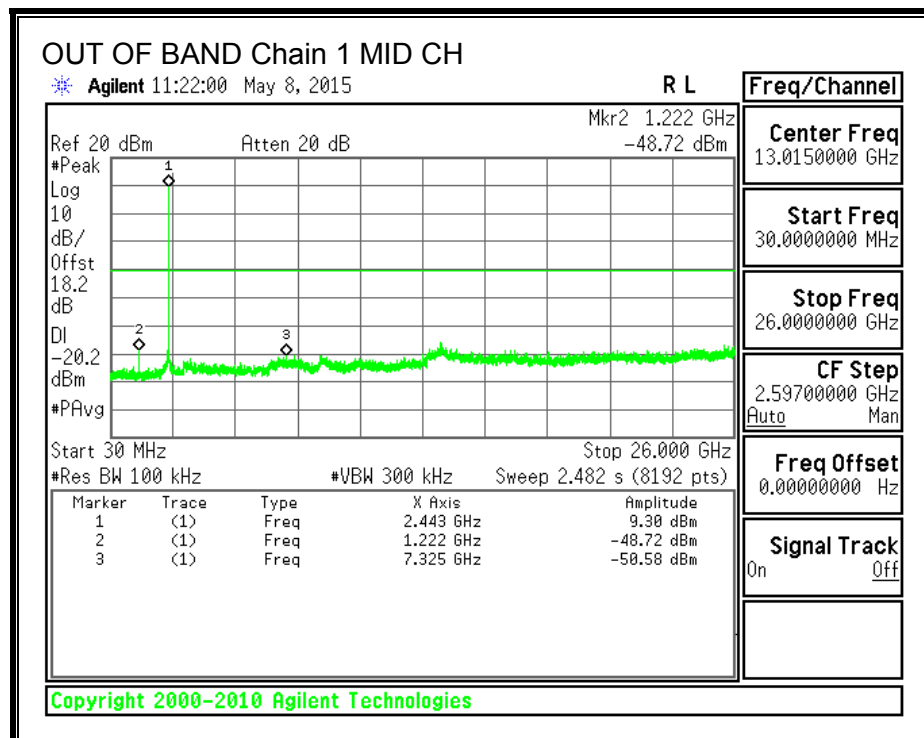
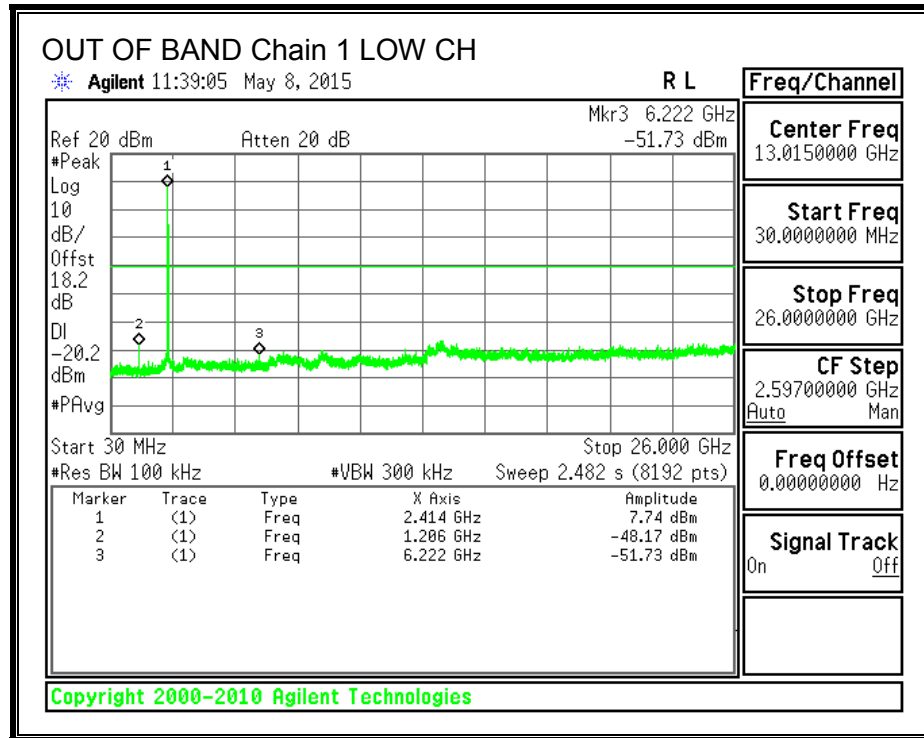
LOW CHANNEL BANDEDGE, Chain 1

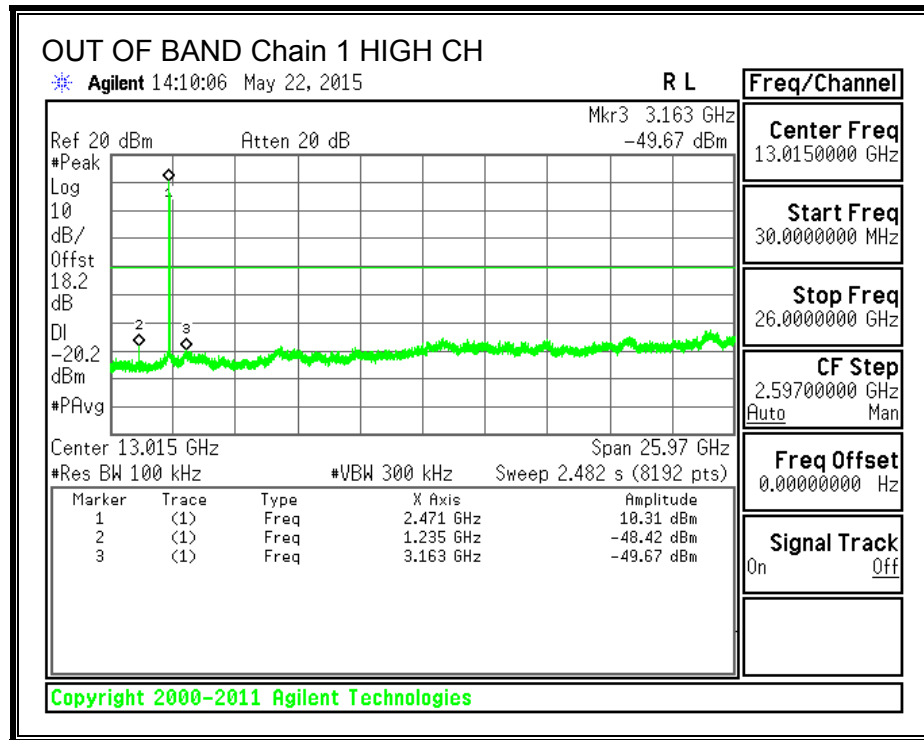


HIGH CHANNEL BANDEDGE, Chain 1



OUT-OF-BAND EMISSIONS, Chain 1





8.4. 802.11g LEGACY 1TX MODE IN THE 2.4 GHz BAND

8.4.1. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4 (4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

DIRECTIONAL ANTENNA GAIN

This is SISO mode, AG is the highest (worst-case) = 3.6 dBi

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
1	2412	3.60	30	30	36	30
2	2417	3.60	30	30	36	30
10	2457	3.60	30	30	36	30
11	2462	3.60	30	30	36	30
12	2467	3.60	30	30	36	30
13	2472	3.60	30	30	36	30

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
1	2412	19.36	19.36	30	-10.64
2	2417	19.47	19.47	30	-10.53
10	2457	19.32	19.32	30	-10.68
11	2462	18.69	18.69	30	-11.31
12	2467	17.02	17.02	30	-12.98
13	2472	10.68	10.68	30	-19.32

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.5. 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND

8.5.1. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4 (4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

DIRECTIONAL ANTENNA GAIN

This is SISO mode, AG is the highest (worst-case) = 3.6 dBi

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
1	2412	3.60	30	30	36	30
2	2417	3.60	30	30	36	30
10	2457	3.60	30	30	36	30
11	2462	3.60	30	30	36	30
12	2467	3.60	30	30	36	30
13	2472	3.60	30	30	36	30

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
1	2412	18.91	18.91	30	-11.09
2	2417	19.43	19.43	30	-10.57
10	2457	19.54	19.54	30	-10.46
11	2462	18.09	18.09	30	-11.91
12	2467	17.01	17.01	30	-12.99
13	2472	9.30	9.30	30	-20.70

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.6. 802.11n HT20 CDD 2TX MODE IN THE 2.4 GHz BAND

8.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

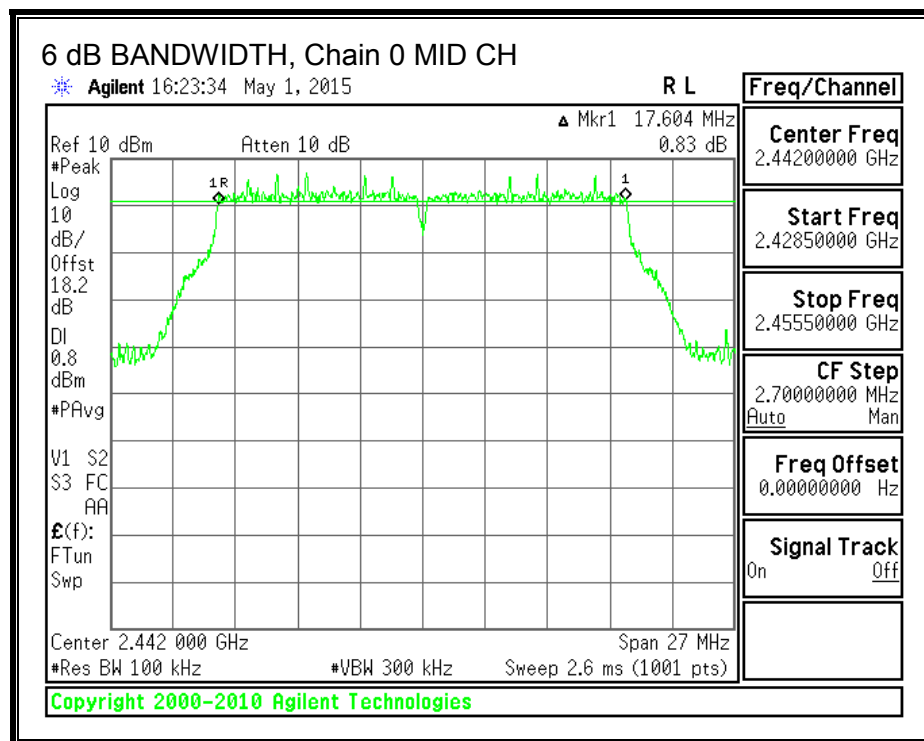
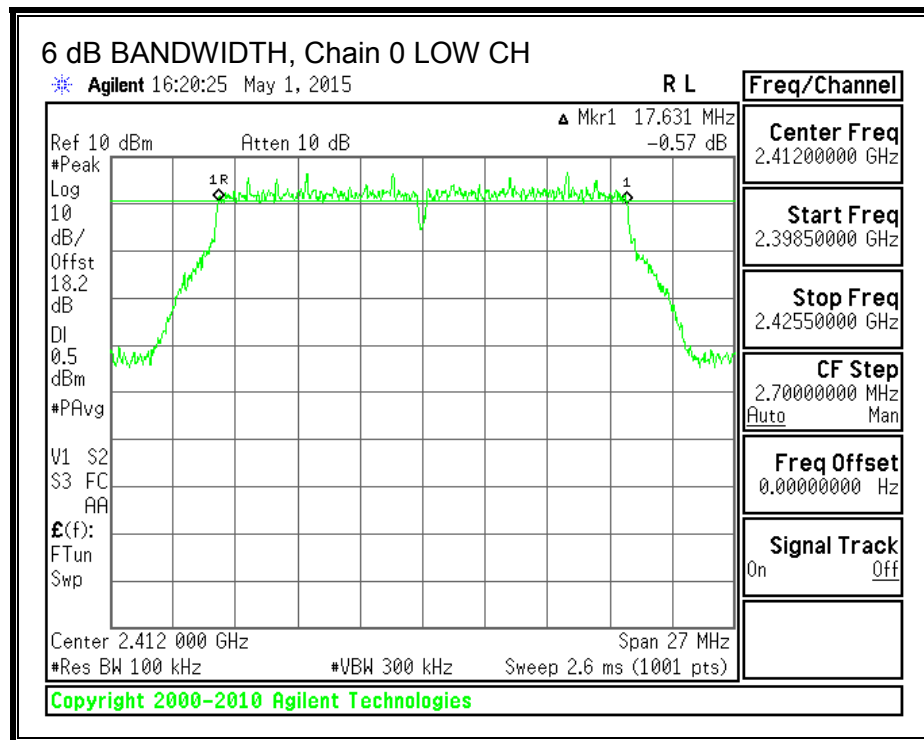
IC RSS-247 Clause 5.2 (1)

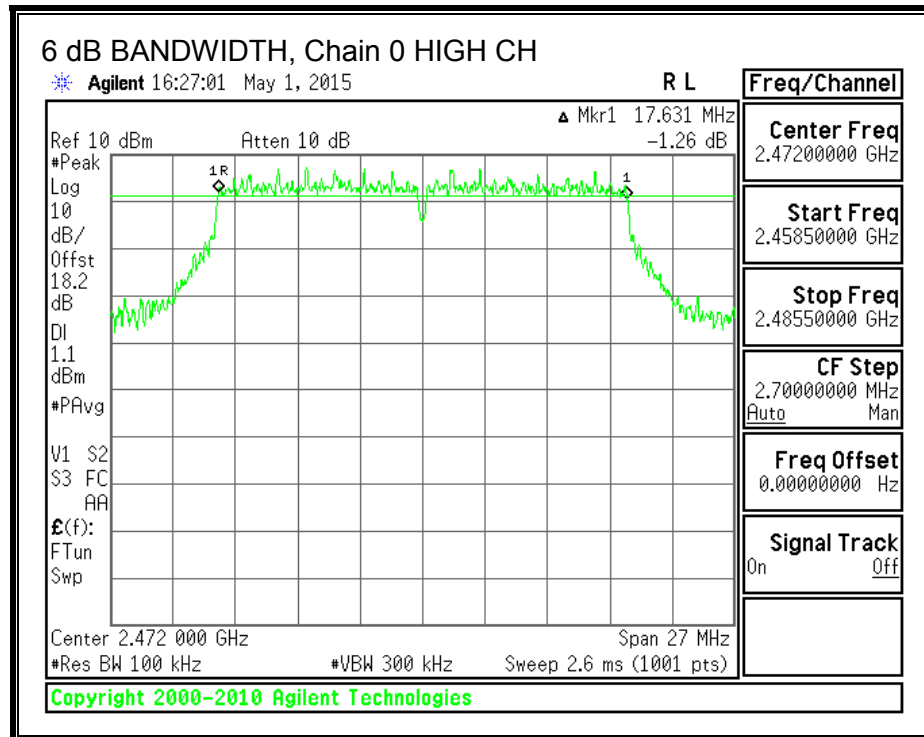
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

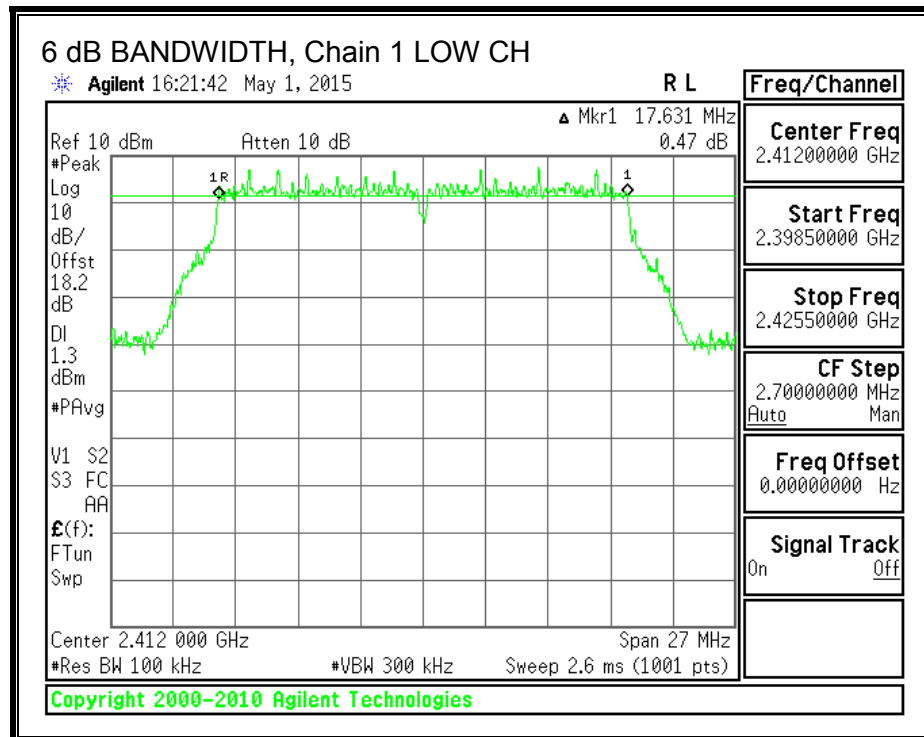
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	2412	17.631	17.631	0.5
Mid	2442	17.604	17.631	0.5
High	2472	17.631	17.631	0.5

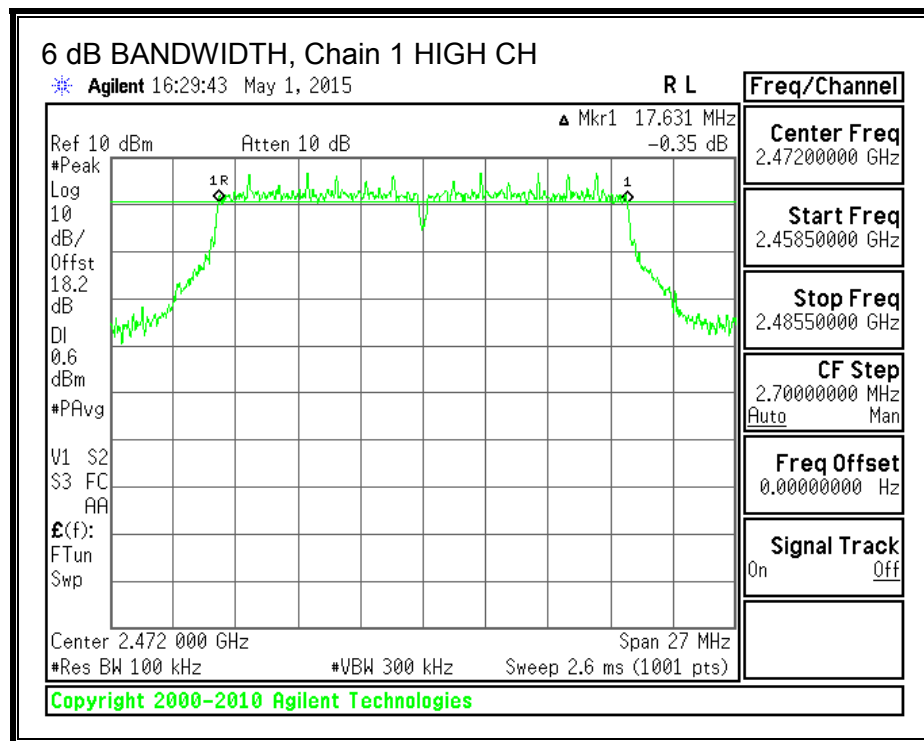
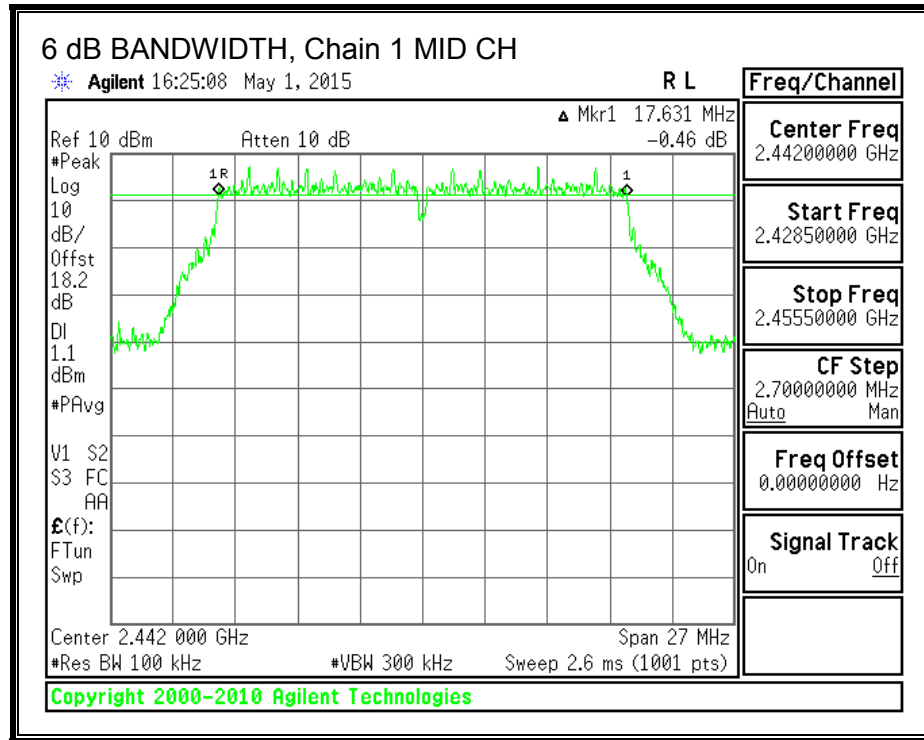
6 dB BANDWIDTH, Chain 0





6 dB BANDWIDTH, Chain 1





8.6.2. 99% BANDWIDTH

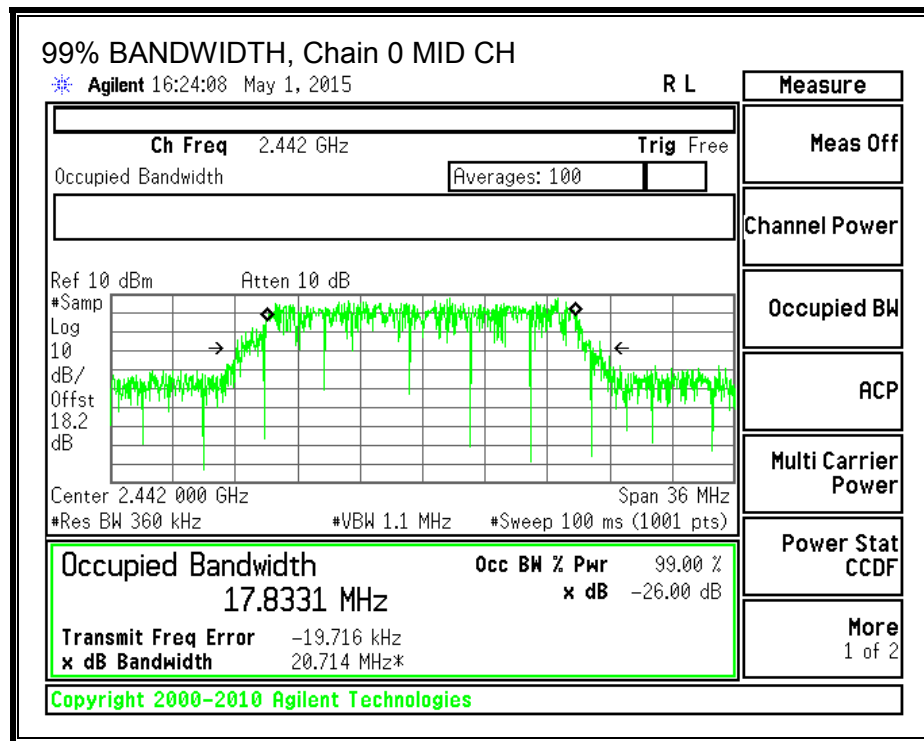
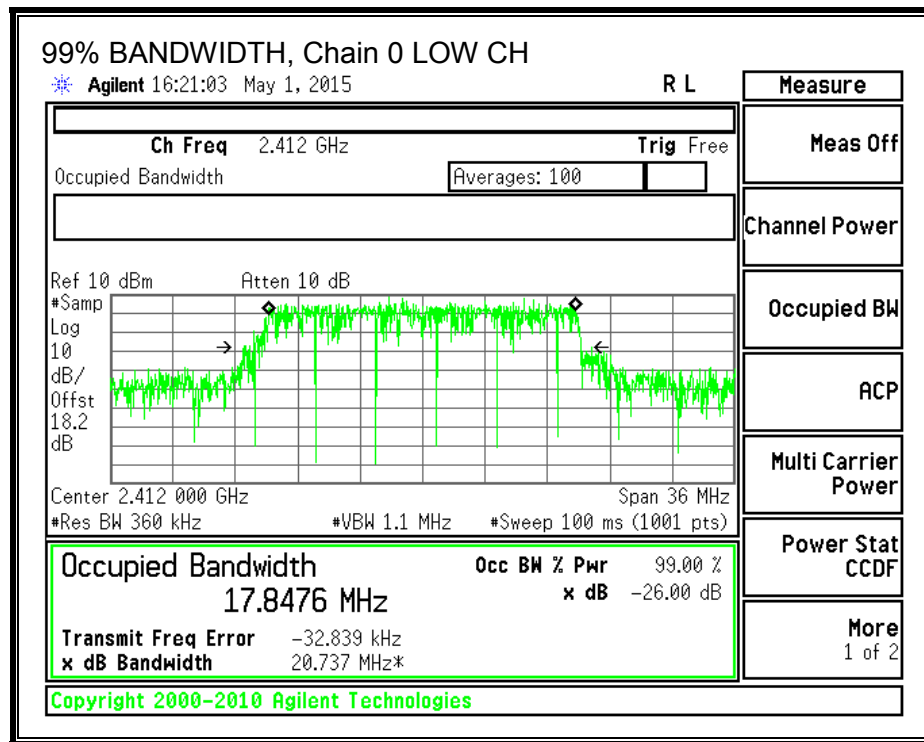
LIMITS

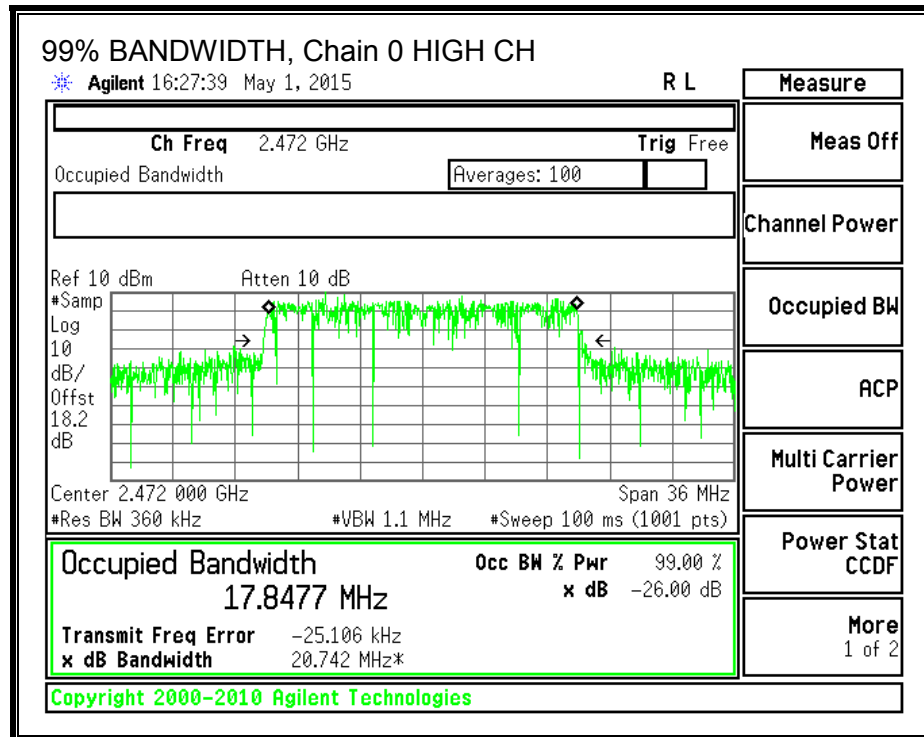
None; for reporting purposes only.

RESULTS

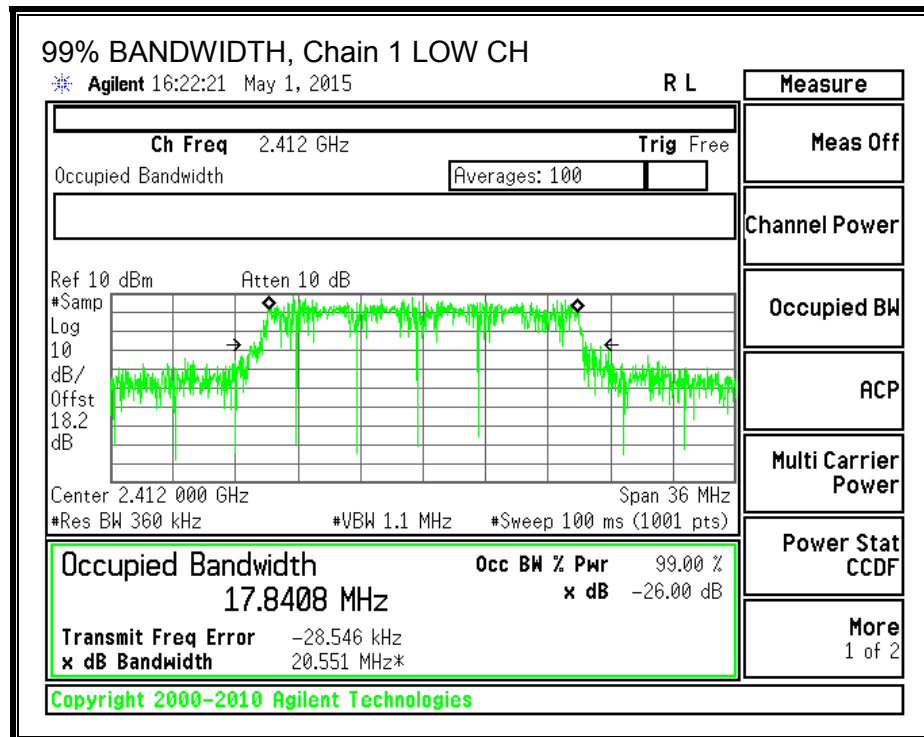
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	2412	17.8476	17.8408
Mid	2442	17.8331	17.8487
High	2472	17.8477	17.8546

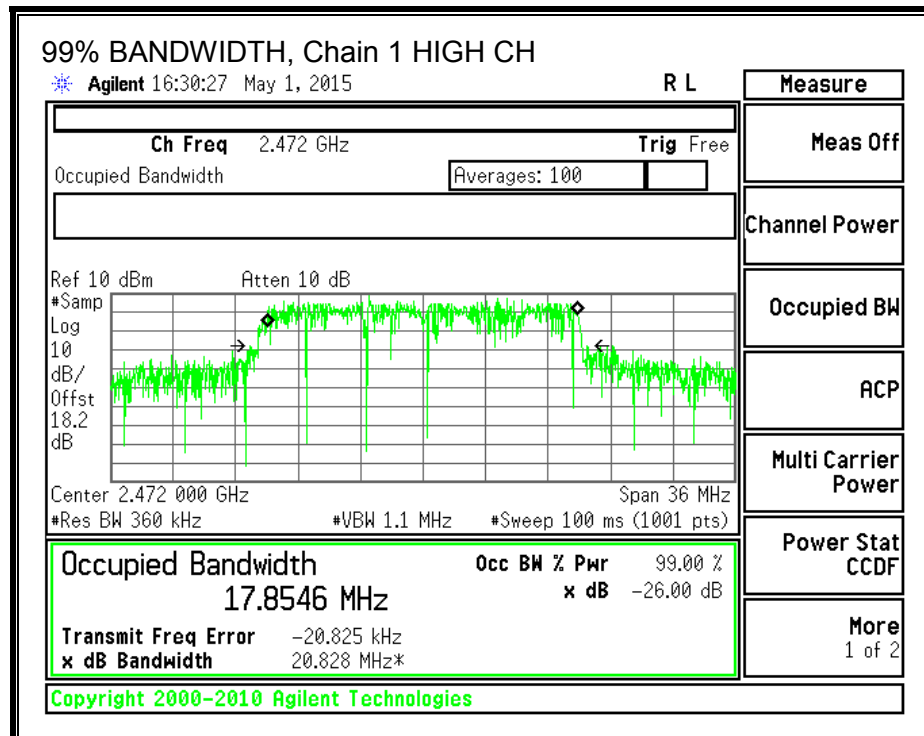
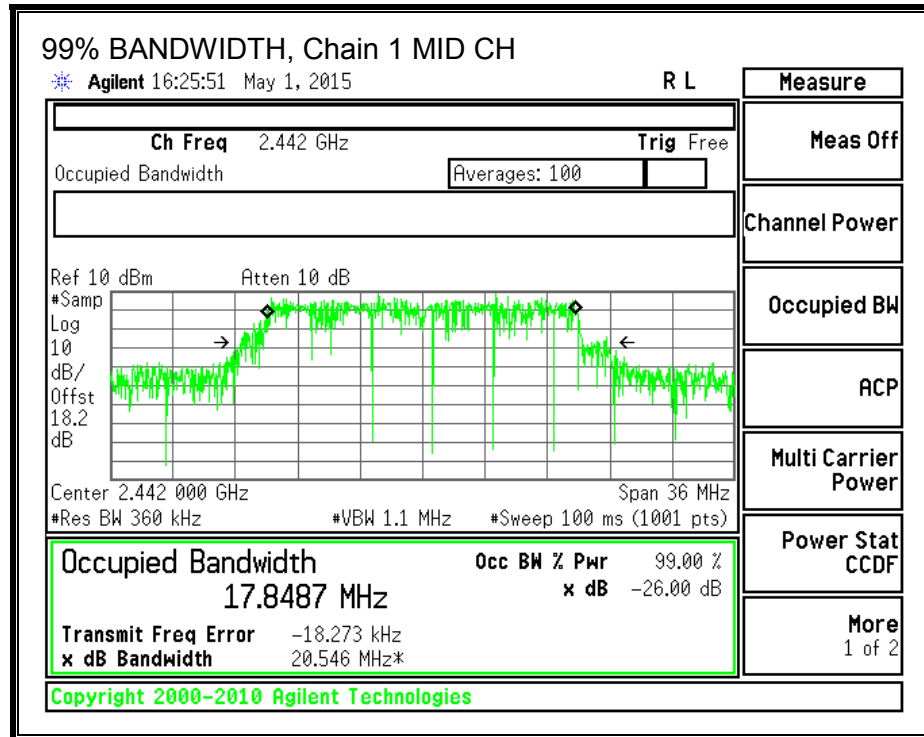
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1





8.6.3. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4(4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section 5.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
3.60	3.60	3.60

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
1	2412	3.60	30	30	36	30.00
2	2417	3.60	30	30	36	30.00
7	2442	3.60	30	30	36	30.00
10	2457	3.60	30	30	36	30.00
11	2462	3.60	30	30	36	30.00
12	2467	3.60	30	30	36	30.00
13	2472	3.60	30	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
1	2412	15.96	15.81	18.90	30.00	-11.10
2	2417	18.48	18.26	21.38	30.00	-8.62
7	2442	19.00	18.90	21.96	30.00	-8.04
10	2457	18.48	18.36	21.43	30.00	-8.57
11	2462	15.46	15.38	18.43	30.00	-11.57
12	2467	12.34	12.38	15.37	30.00	-14.63
13	2472	7.18	7.19	10.20	30.00	-19.80

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.6.4. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 Clause 5.2(2)

The transmitter 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. This power spectral density shall be determined in accordance with the provisions of Section 5.4 (4), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

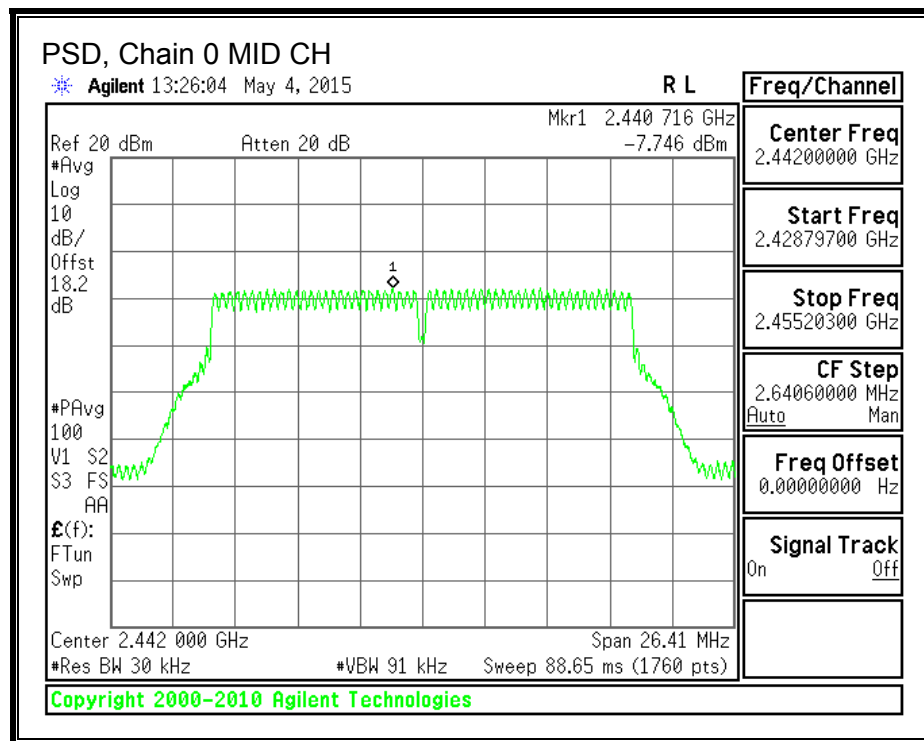
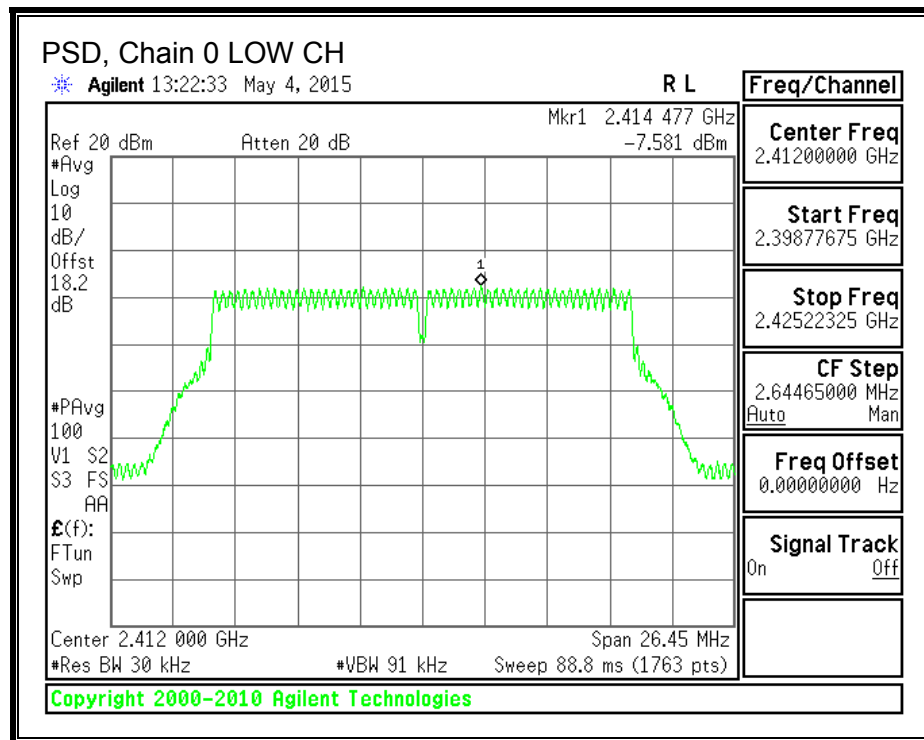
RESULTS

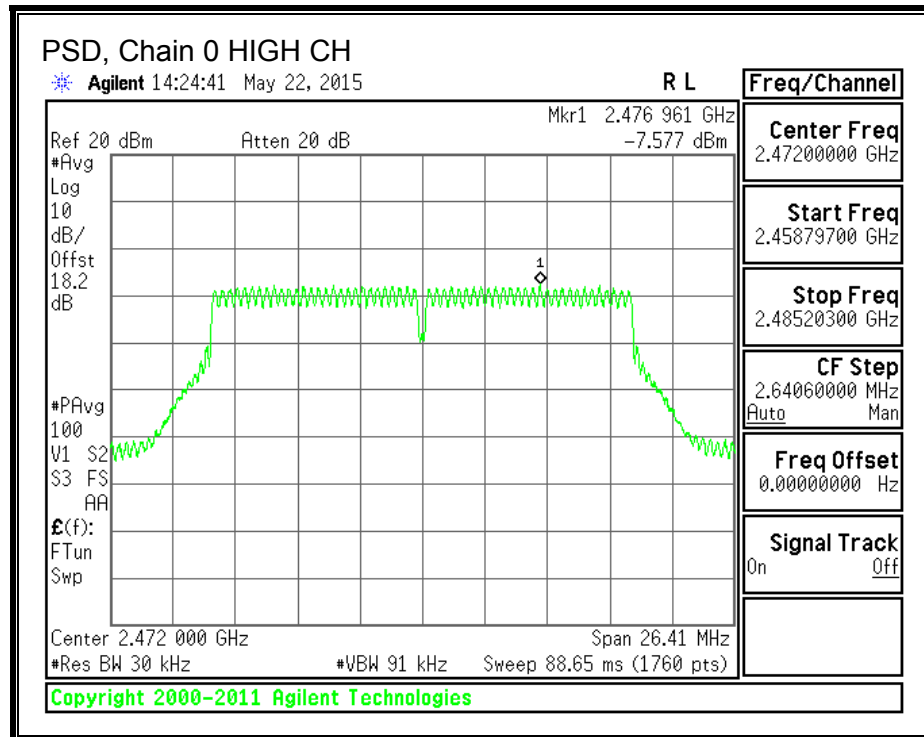
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

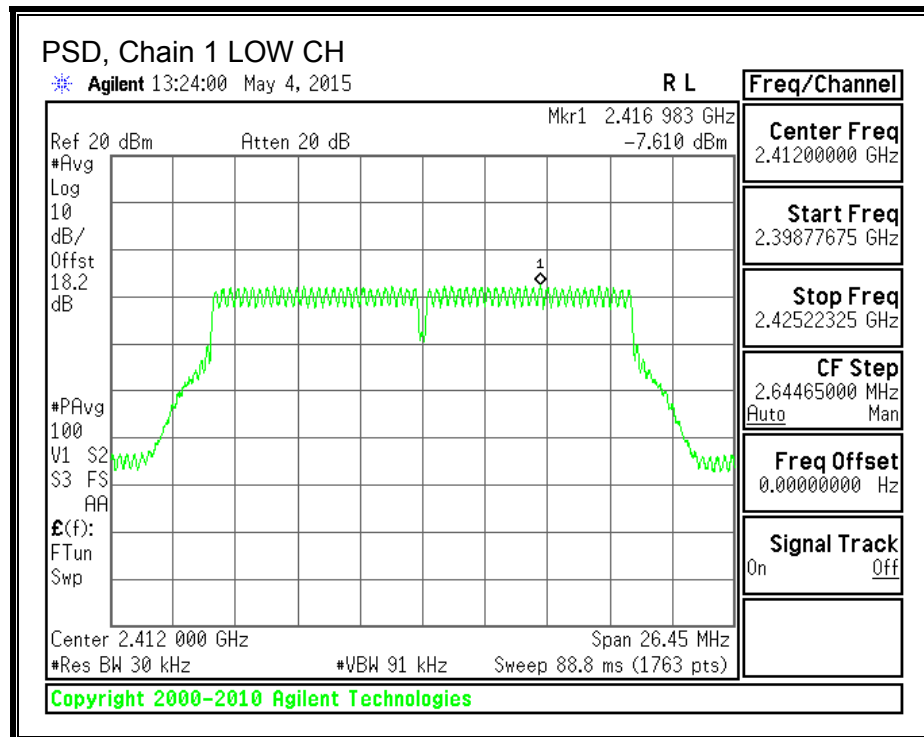
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-7.581	-7.610	-4.59	8.0	-12.6
Mid	2442	-7.746	-7.089	-4.39	8.0	-12.4
High	2472	-7.577	-7.239	-4.39	8.0	-12.4

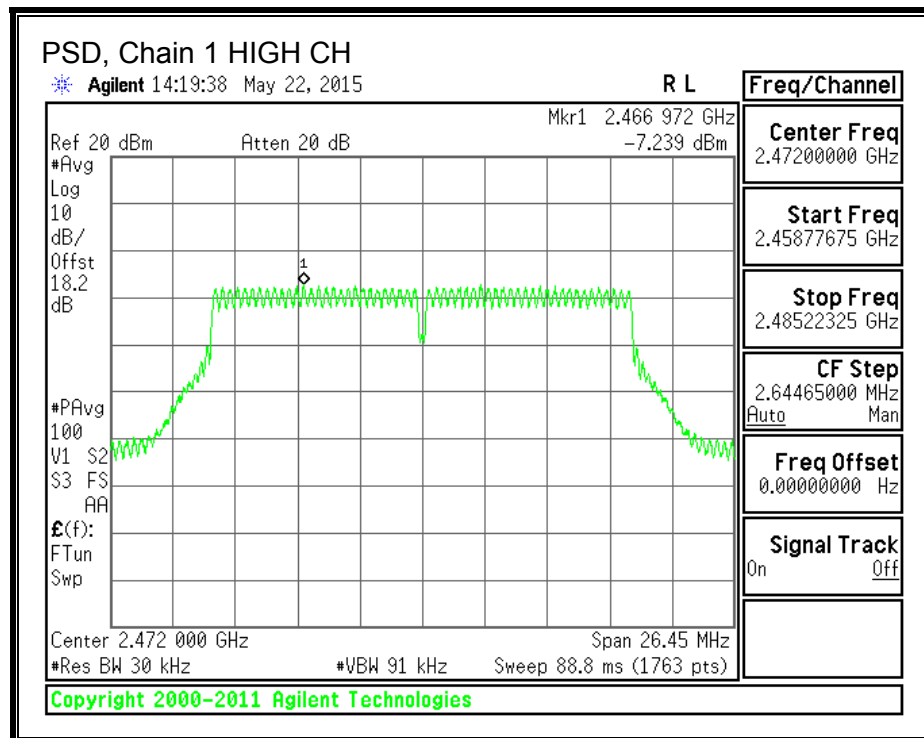
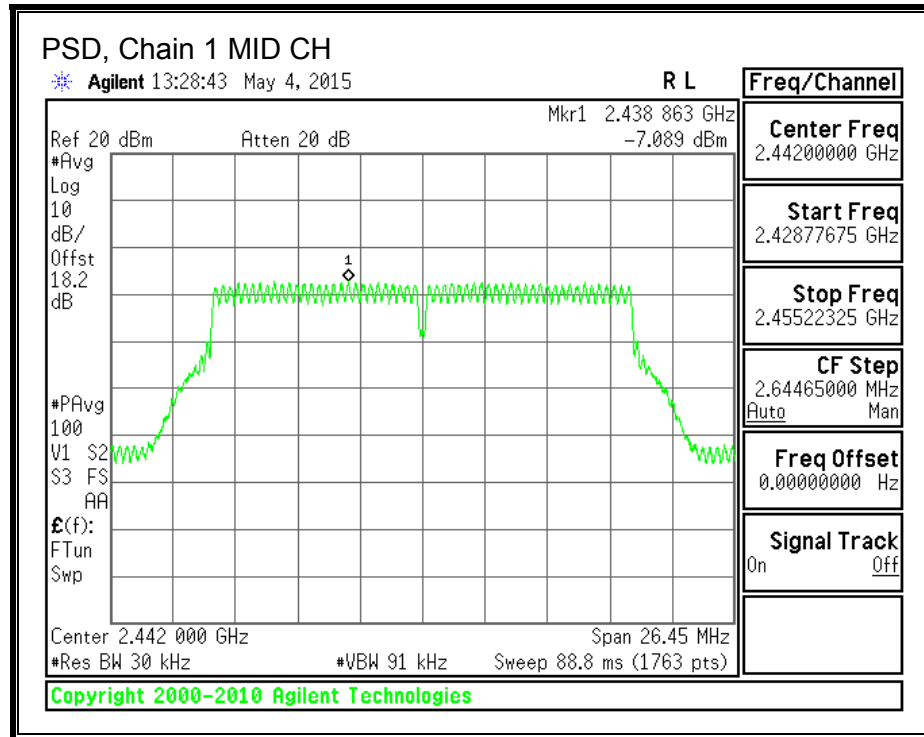
PSD, Chain 0





PSD, Chain 1





8.6.5. OUT-OF-BAND EMISSIONS

LIMITS

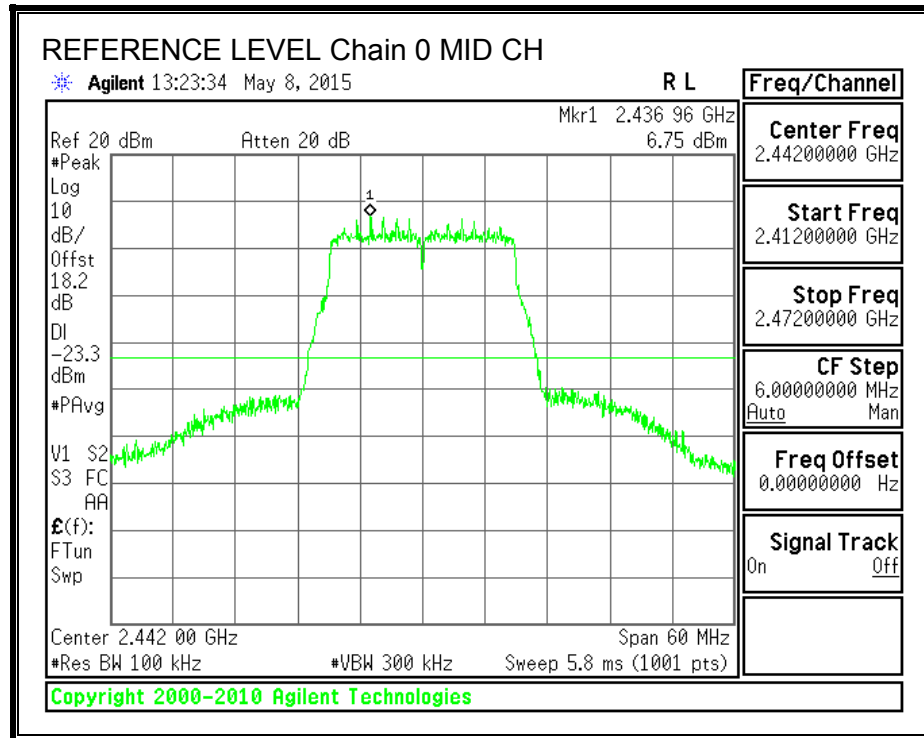
FCC §15.247 (d)

IC RSS-247 Clause 5.5

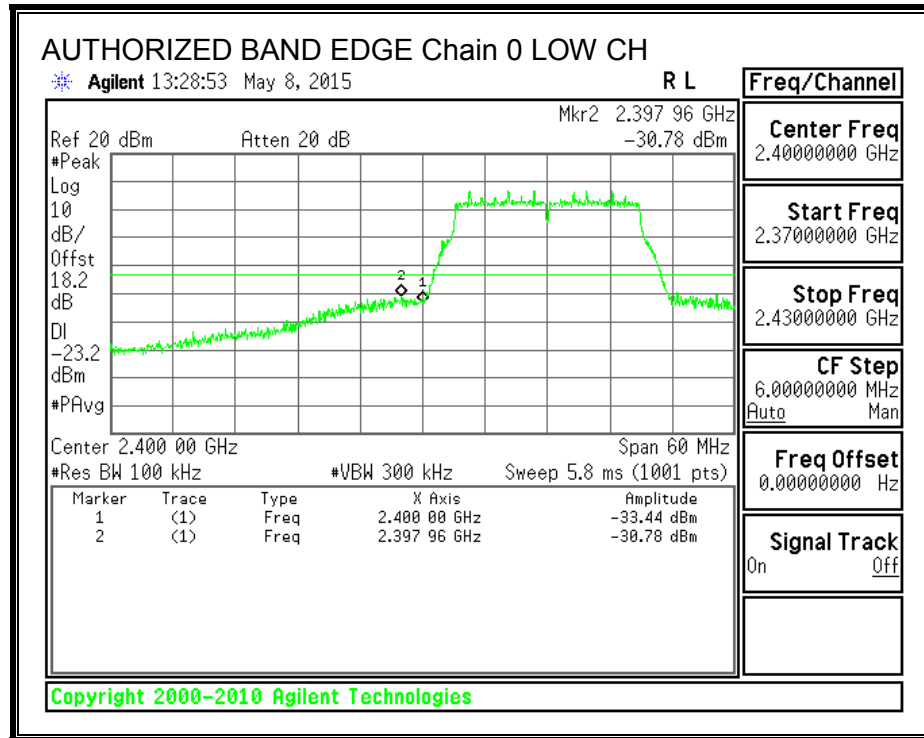
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

RESULTS

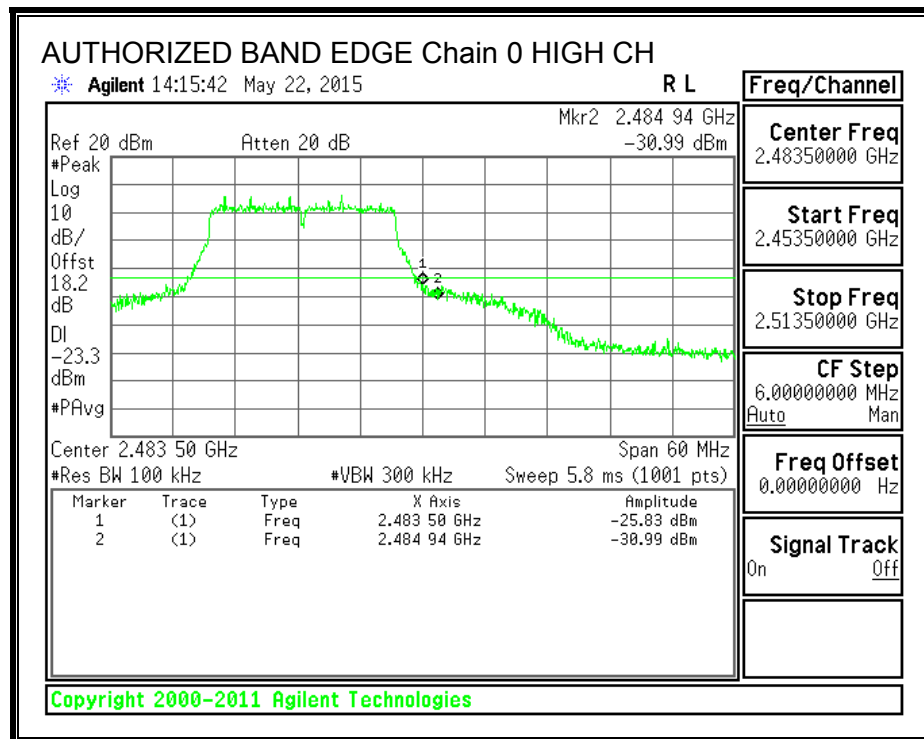
IN-BAND REFERENCE LEVEL, Chain 0



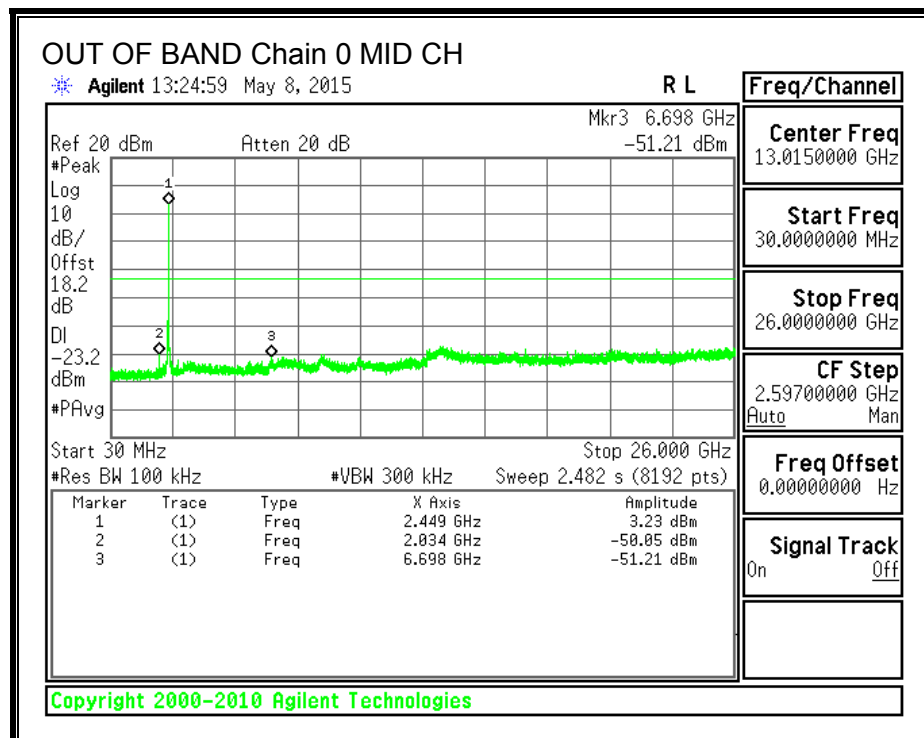
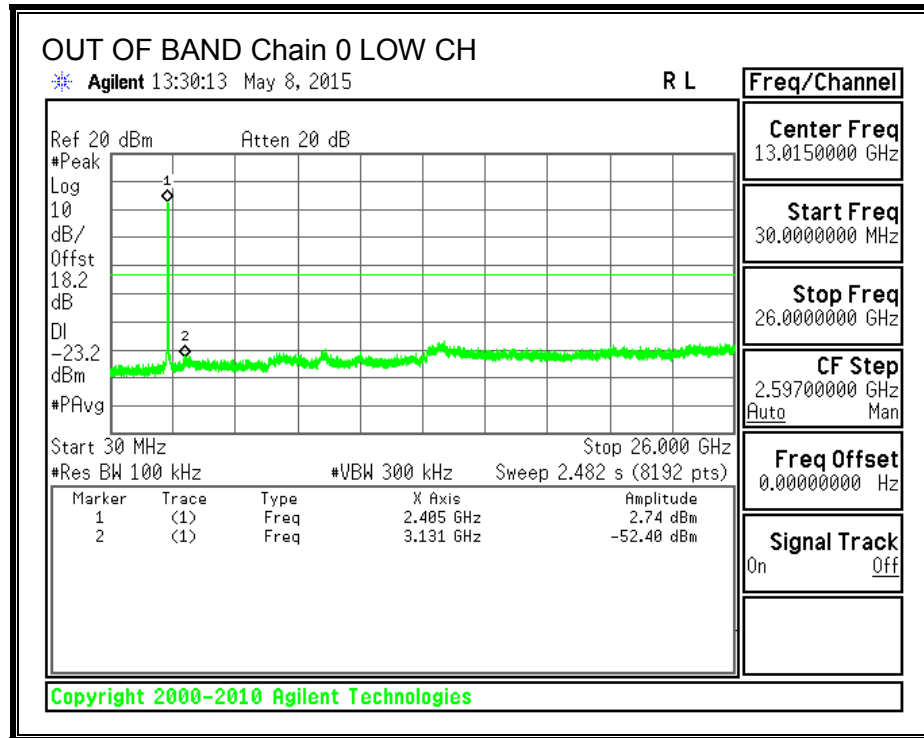
LOW CHANNEL BANDEDGE, Chain 0

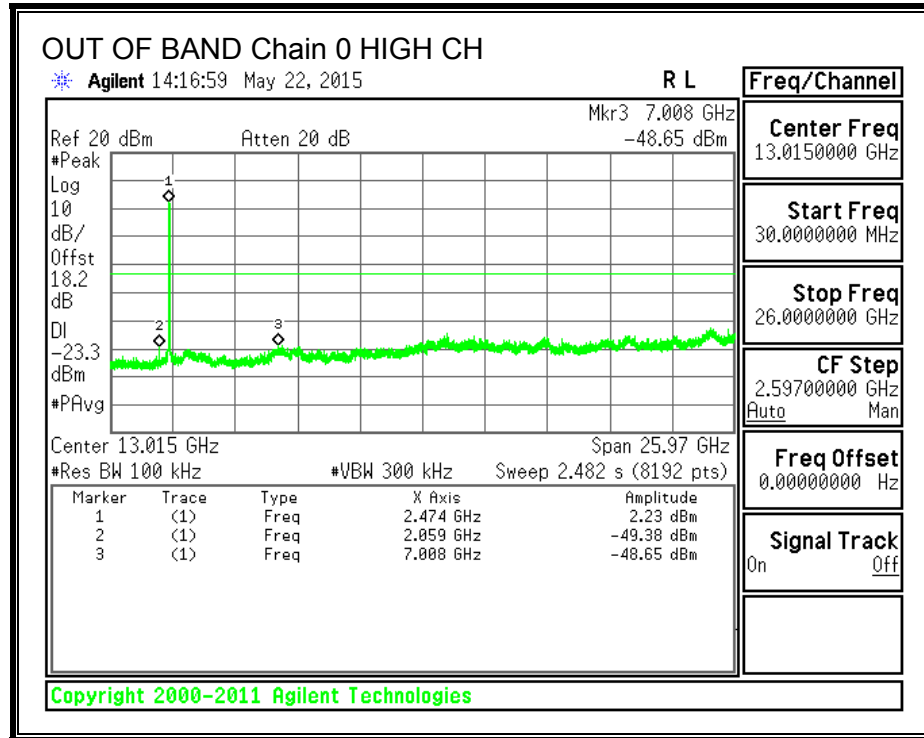


HIGH CHANNEL BANDEDGE, Chain 0

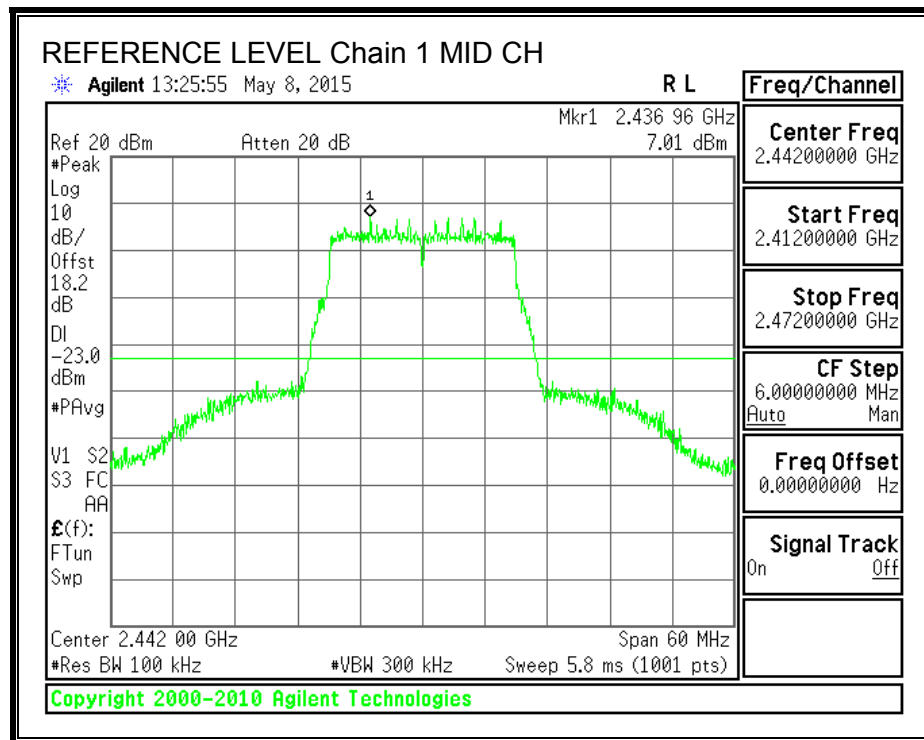


OUT-OF-BAND EMISSIONS, Chain 0

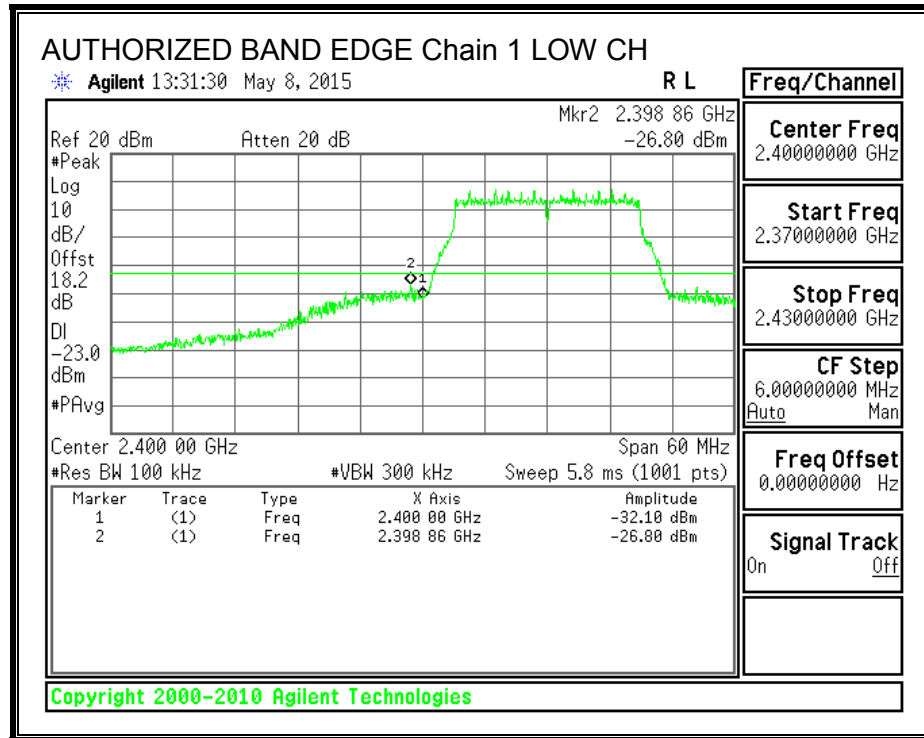




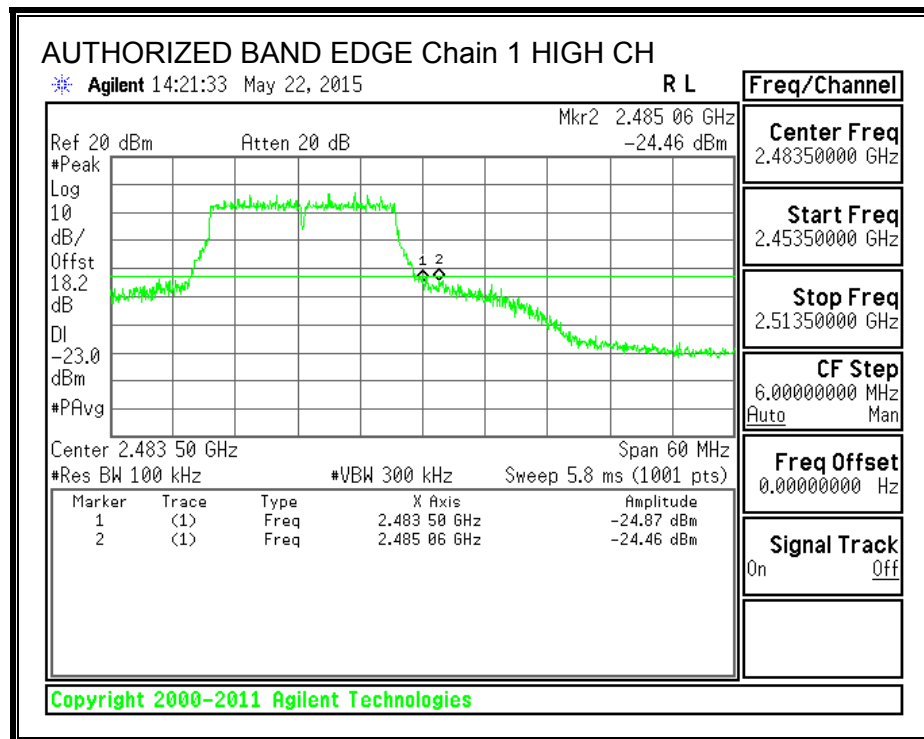
IN-BAND REFERENCE LEVEL, Chain 1



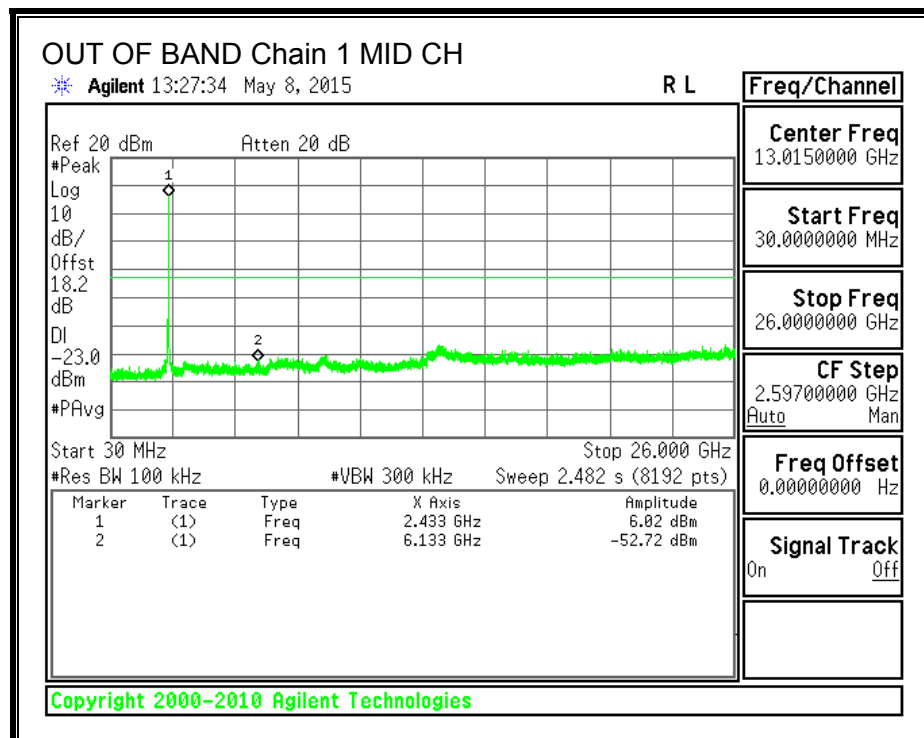
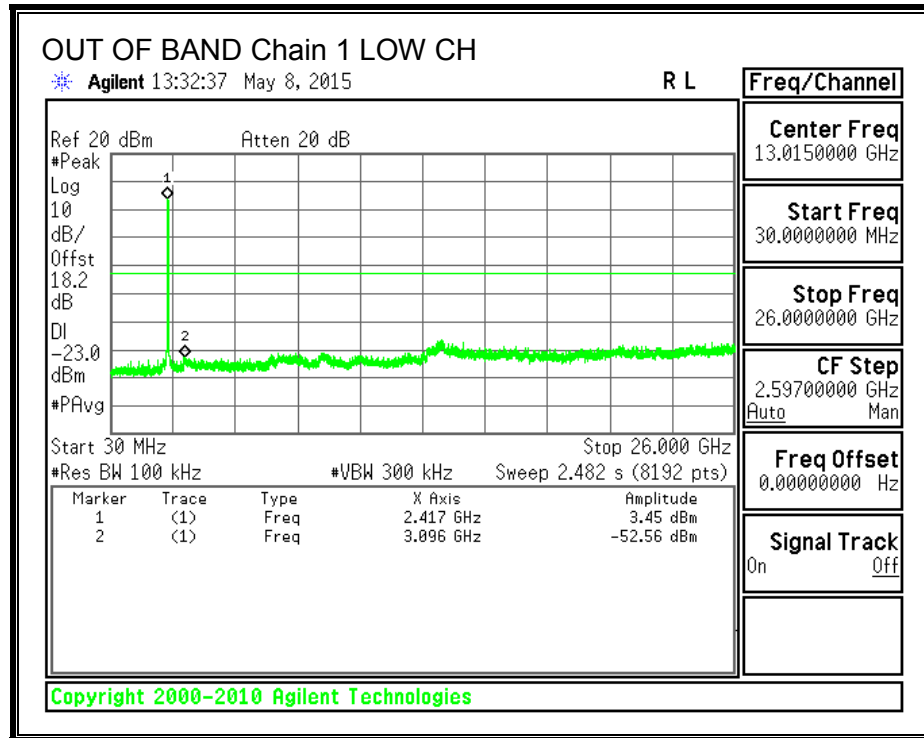
LOW CHANNEL BANDEDGE, Chain 1

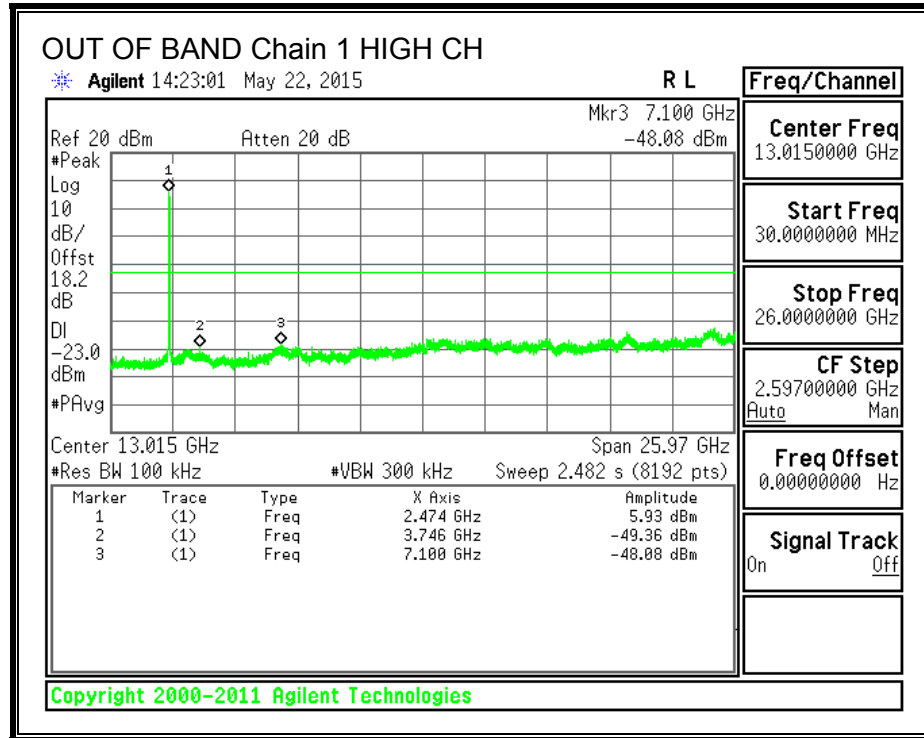


HIGH CHANNEL BANDEDGE, Chain 1



OUT-OF-BAND EMISSIONS, Chain 1





8.7. 802.11n HT20 TxBF 2TX MODE IN THE 2.4 GHz BAND

8.7.1. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4(4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section 5.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (2 chains) (dB)	Correlated Chains Directional Gain (dBi)
3.60	3.01	6.61

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
1	2412	6.61	30	30	36	29.39
2	2417	6.61	30	30	36	29.39
7	2442	6.61	30	30	36	29.39
10	2452	6.61	30	30	36	29.39
11	2462	6.61	30	30	36	29.39
12	2467	6.61	30	30	36	29.39
13	2472	6.61	30	30	36	29.39

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
1	2412	15.32	15.39	18.37	29.39	-11.02
2	2417	18.25	18.48	21.38	29.39	-8.01
7	2442	19.00	18.90	21.96	29.39	-7.43
10	2452	18.11	18.02	21.08	29.39	-8.31
11	2462	14.98	15.20	18.10	29.39	-11.29
12	2467	12.22	12.13	15.19	29.39	-14.20
13	2472	5.50	4.90	8.22	29.39	-21.17

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.8. 802.11n HT40 SISO MODE IN THE 2.4 GHz BAND

8.8.1. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4 (4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

DIRECTIONAL ANTENNA GAIN

This is SISO mode, AG is the highest (worst-case) = 3.6 dBi

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
3	2422	3.60	30	30	36	30
4	2427	3.60	30	30	36	30
8	2447	3.60	30	30	36	30
9	2452	3.60	30	30	36	30
10	2457	3.60	30	30	36	30
11	2462	3.60	30	30	36	30

Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
3	2422	12.90	12.90	30	-17.10
4	2427	13.50	13.50	30	-16.50
8	2447	17.40	17.40	30	-12.60
9	2452	16.92	16.92	30	-13.08
10	2457	16.93	16.93	30	-13.07
11	2462	15.00	15.00	30	-15.00

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.9. 802.11n HT40 CDD 2TX MODE IN THE 2.4 GHz BAND

8.9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

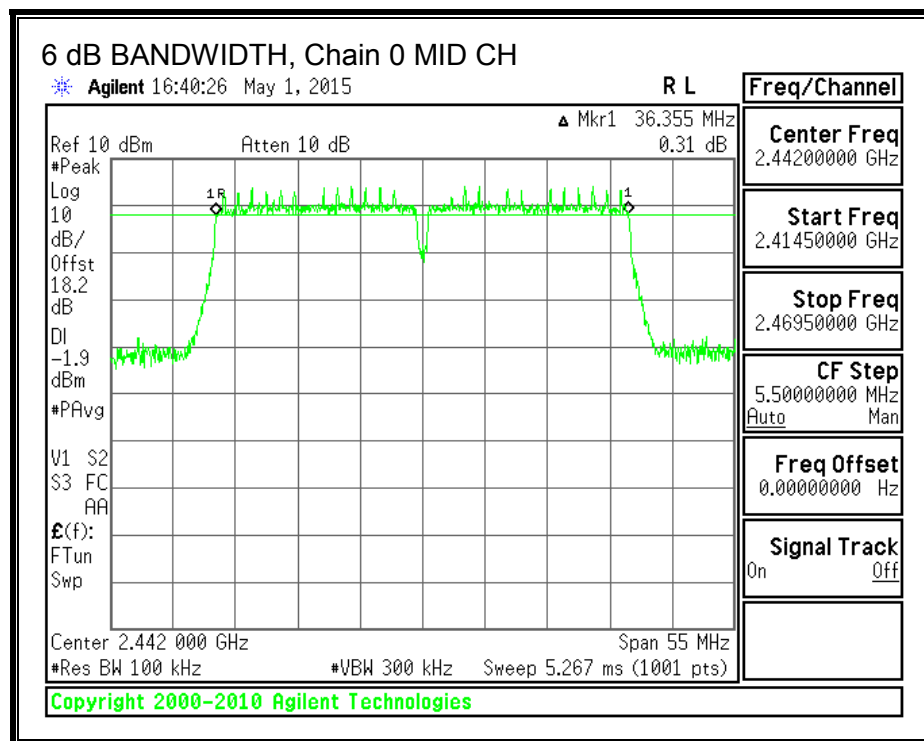
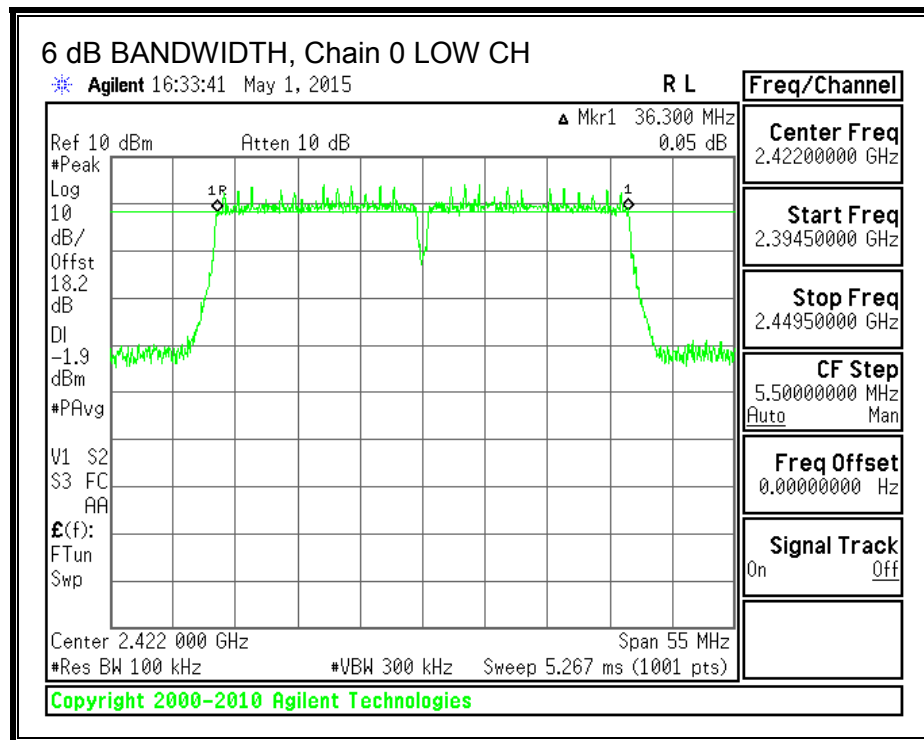
IC RSS-247 Clause 5.2 (1)

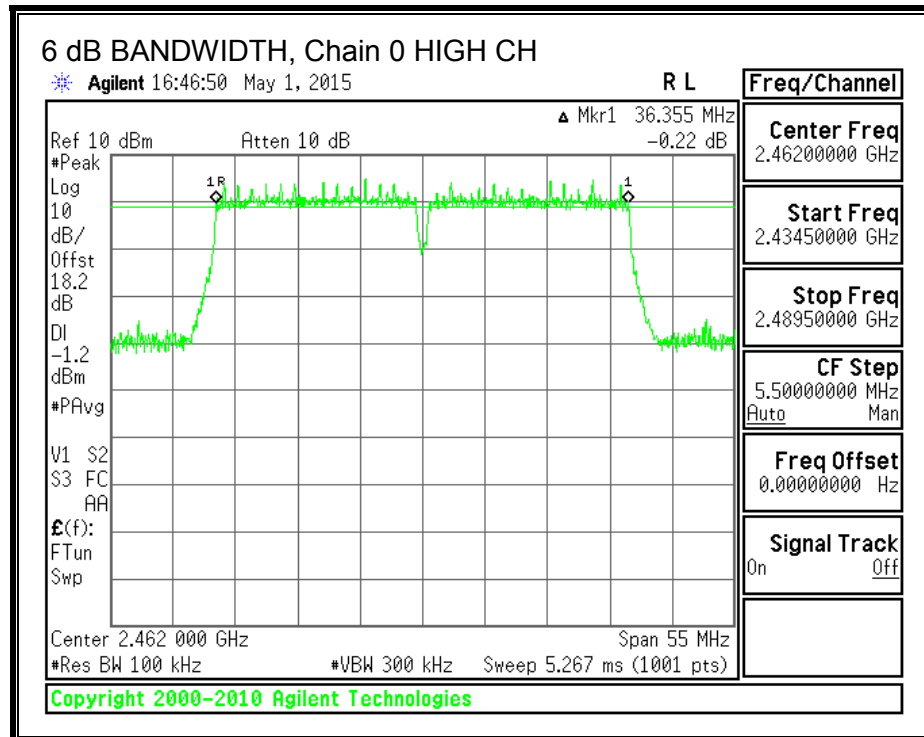
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

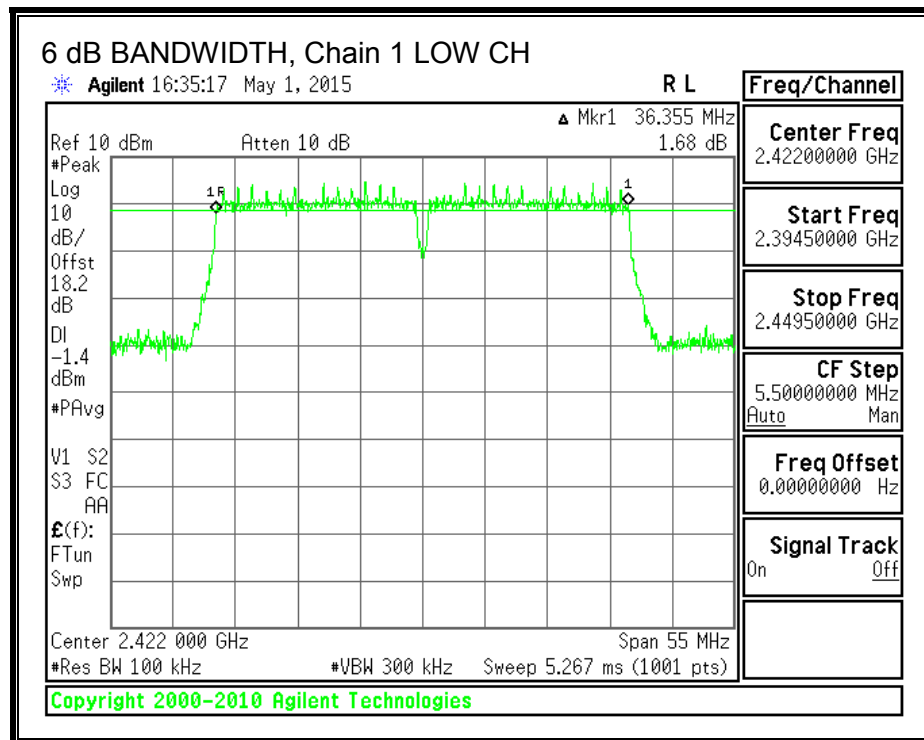
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	2422	36.300	36.355	0.5
Mid	2442	36.355	36.355	0.5
High	2462	36.355	36.355	0.5

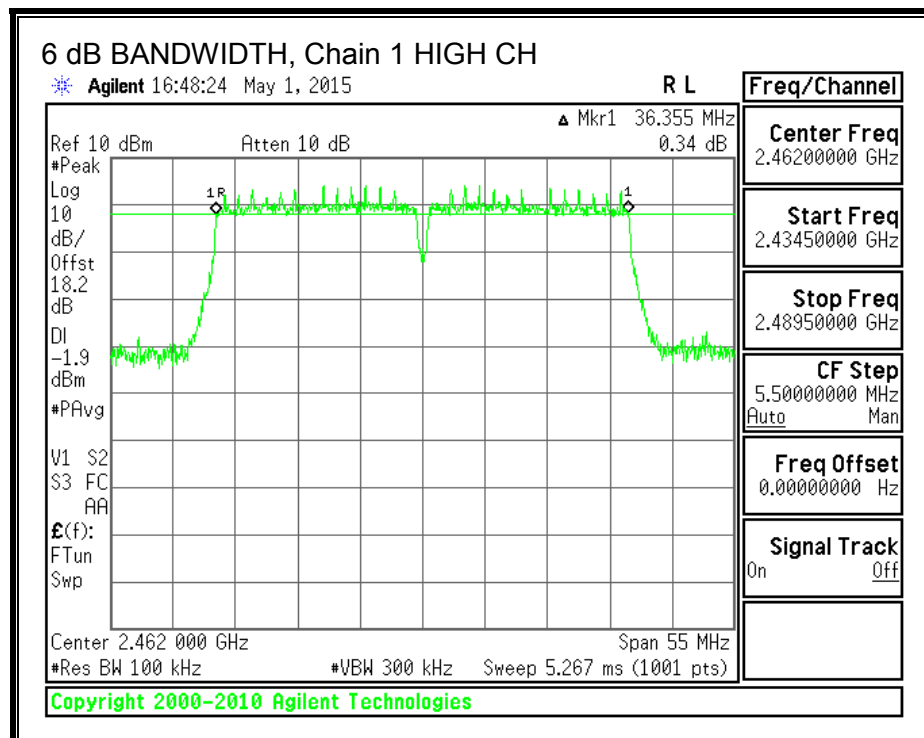
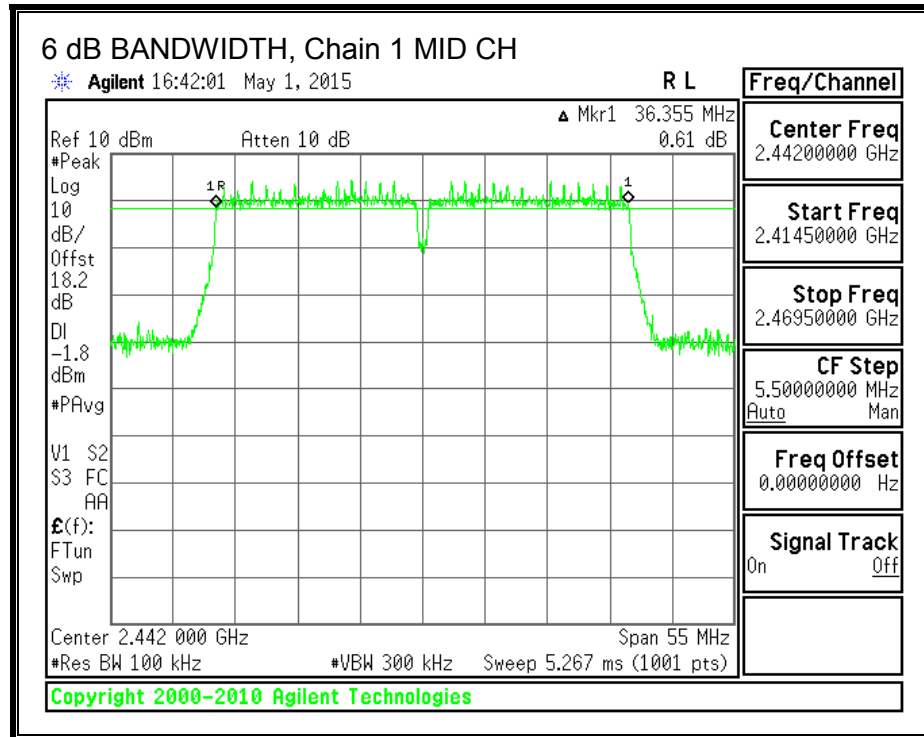
6 dB BANDWIDTH, Chain 0





6 dB BANDWIDTH, Chain 1





8.9.2. 99% BANDWIDTH

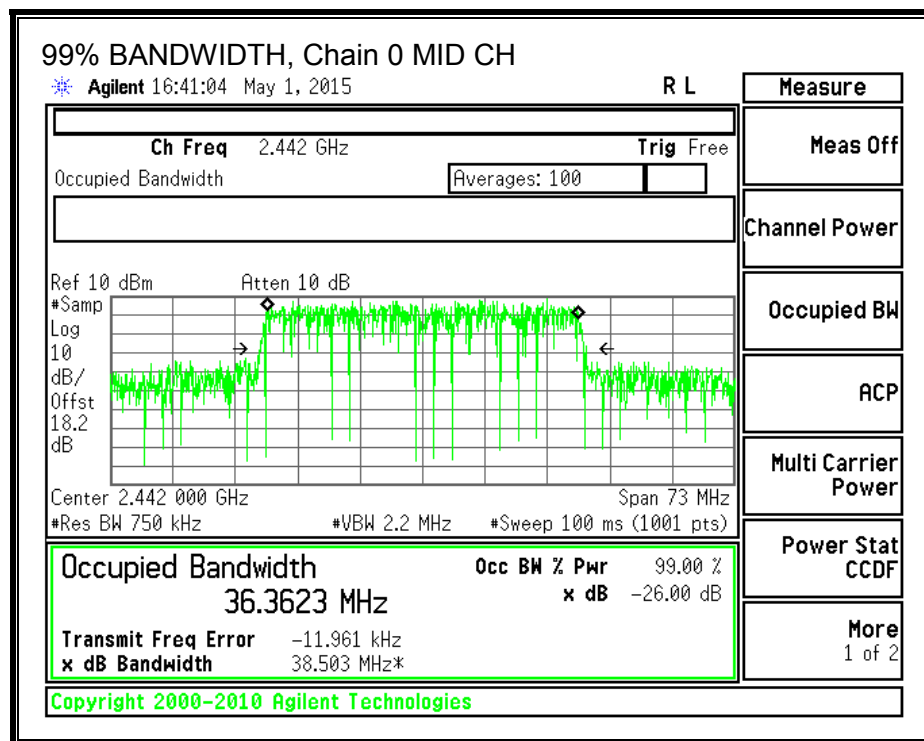
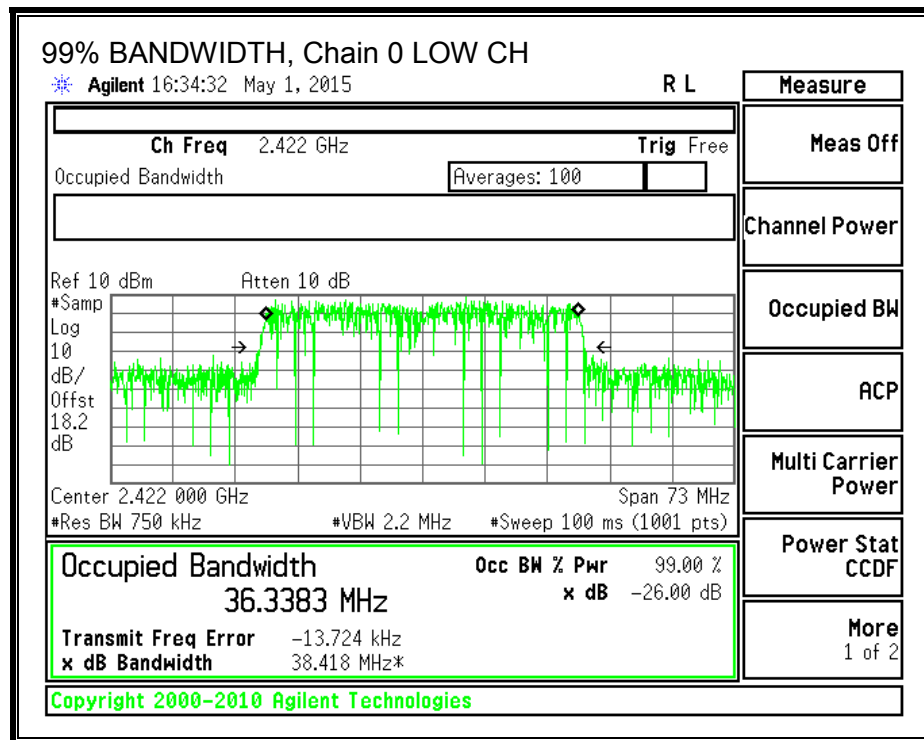
LIMITS

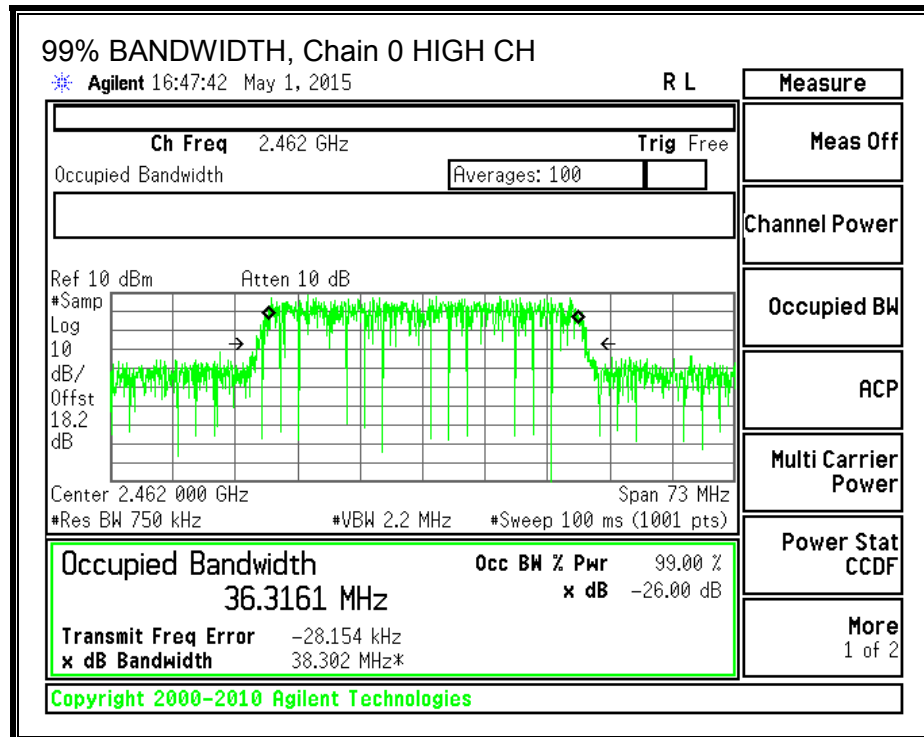
None; for reporting purposes only.

RESULTS

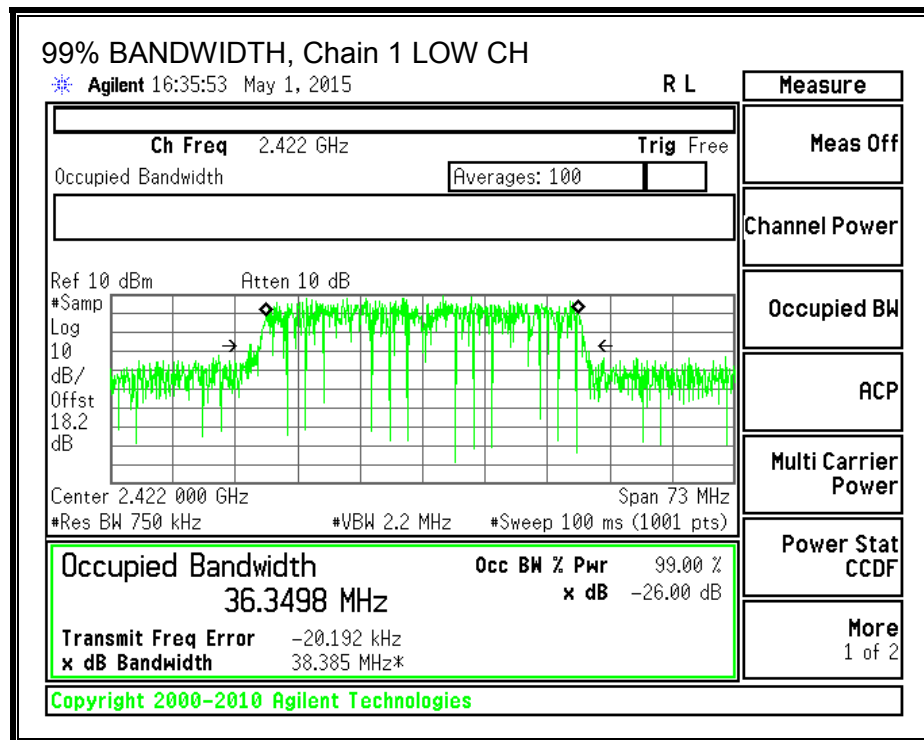
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	2422	36.3383	36.3498
Mid	2442	36.3623	36.3371
High	2462	36.3161	36.3489

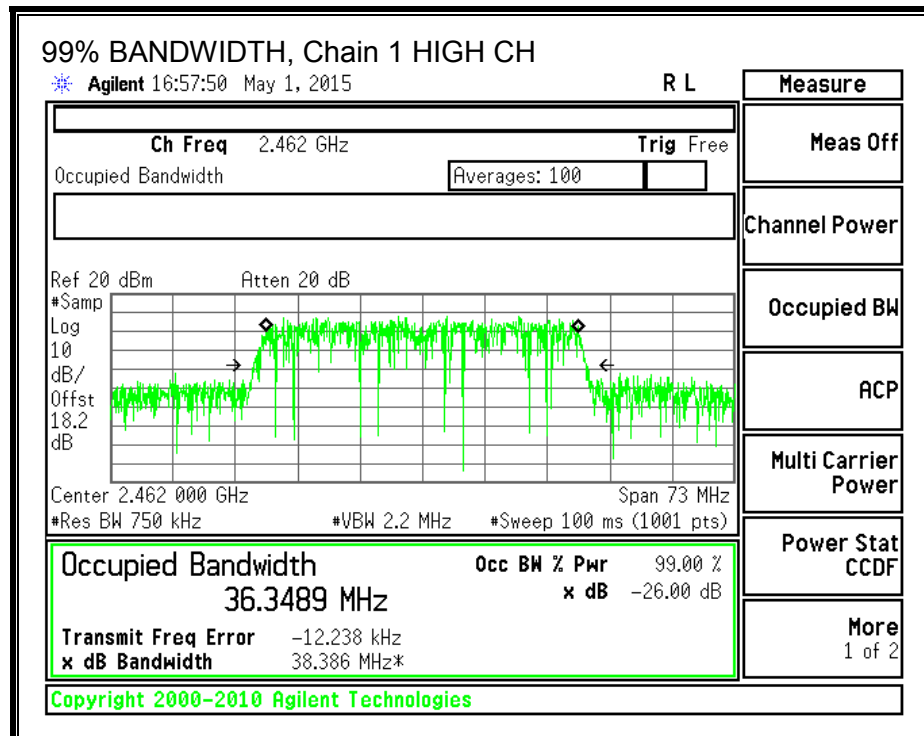
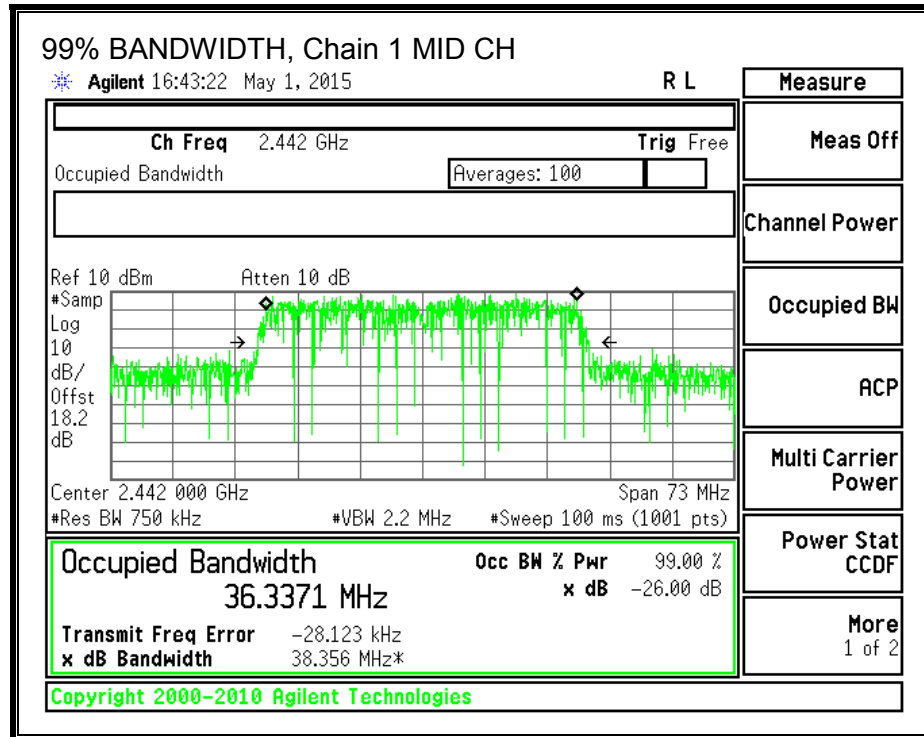
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1





8.9.3. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4(4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section 5.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
3.60	3.60	3.60

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
3	2422	3.60	30	30	36	30.00
4	2427	3.60	30	30	36	30.00
7	2442	3.60	30	30	36	30.00
8	2447	3.60	30	30	36	30.00
9	2452	3.60	30	30	36	30.00
10	2457	3.60	30	30	36	30.00
11	2462	3.60	30	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
3	2422	13.14	13.15	16.16	30.00	-13.84
4	2427	15.18	15.22	18.21	30.00	-11.79
7	2442	18.70	19.10	21.91	30.00	-8.09
8	2447	17.22	17.19	20.22	30.00	-9.78
9	2452	14.83	14.99	17.92	30.00	-12.08
10	2457	12.71	12.69	15.71	30.00	-14.29
11	2462	11.62	11.85	14.75	30.00	-15.25

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.9.4. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 Clause 5.2(2)

The transmitter 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. This power spectral density shall be determined in accordance with the provisions of Section 5.4 (4), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

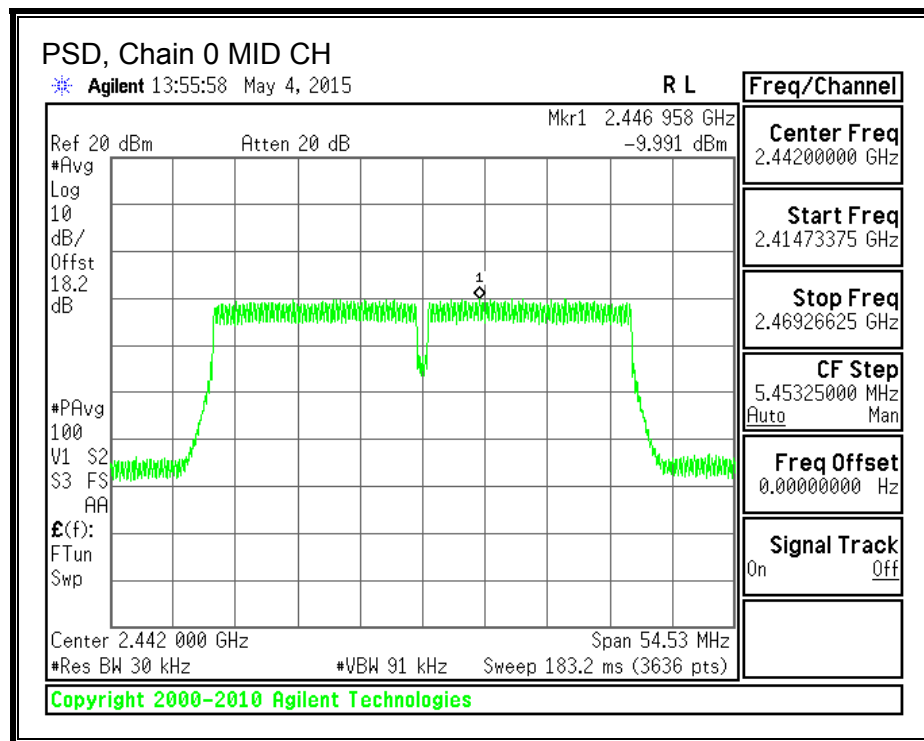
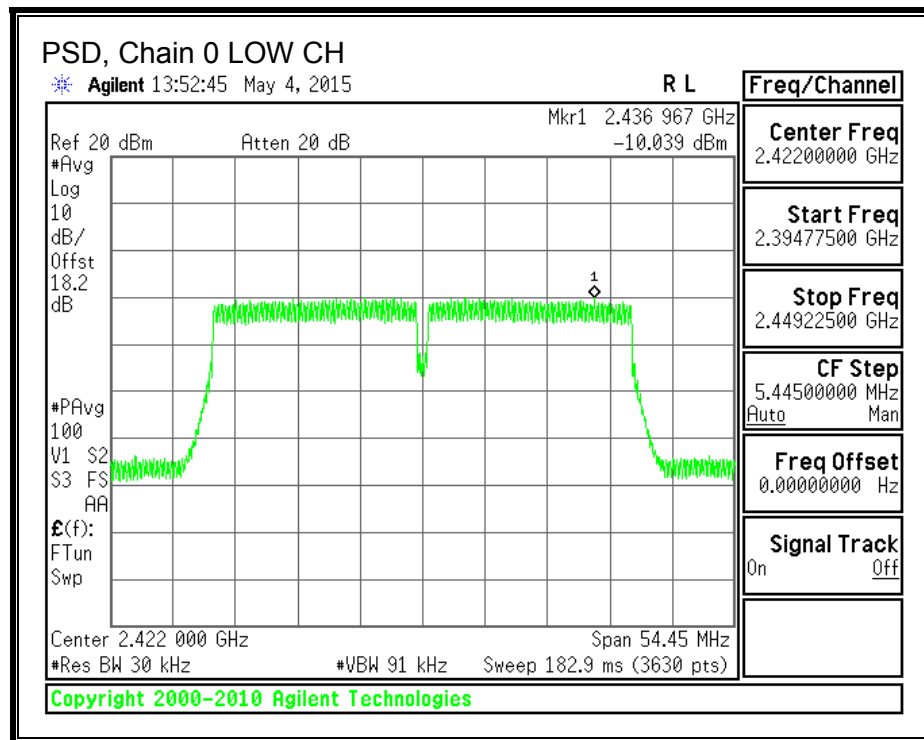
RESULTS

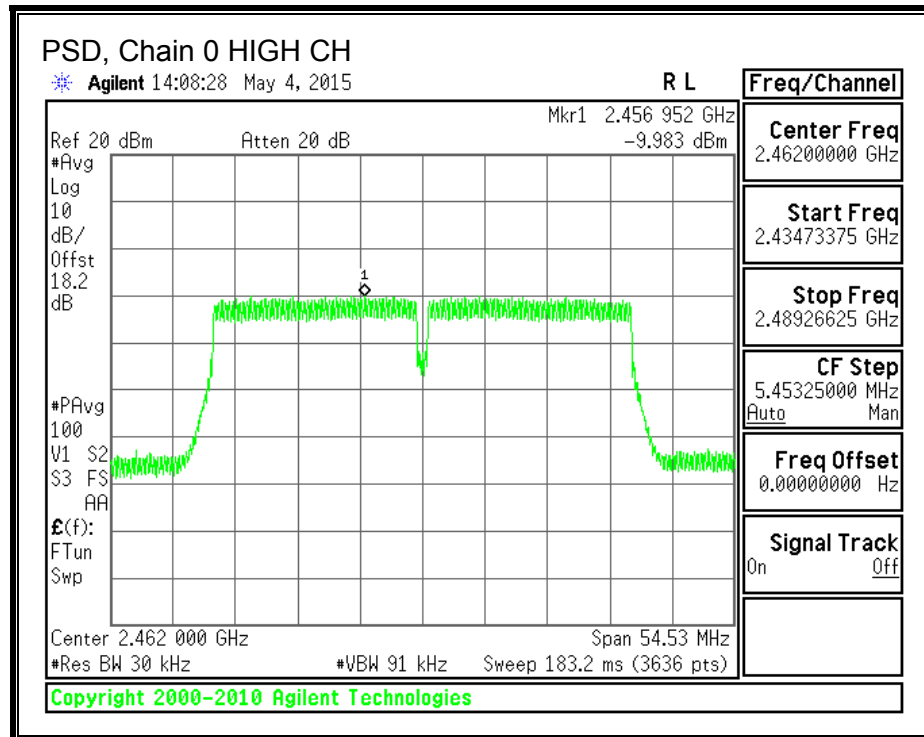
Duty Cycle CF (dB)	0.11	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

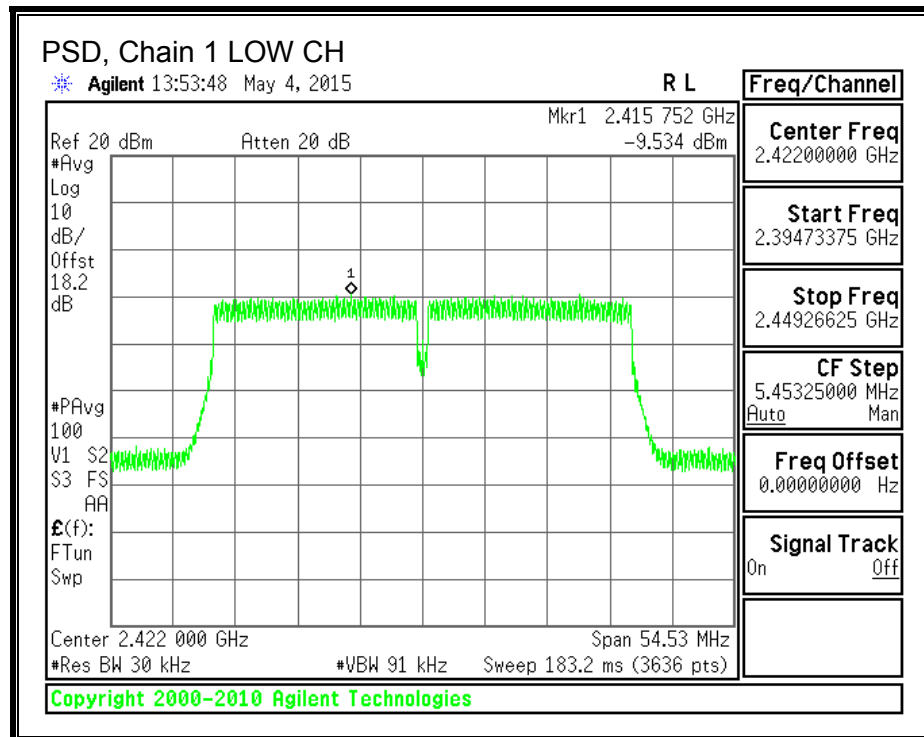
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2422	-10.039	-9.534	-6.66	8.0	-14.7
Mid	2442	-9.991	-9.348	-6.54	8.0	-14.5
High	2462	-9.983	-9.652	-6.69	8.0	-14.7

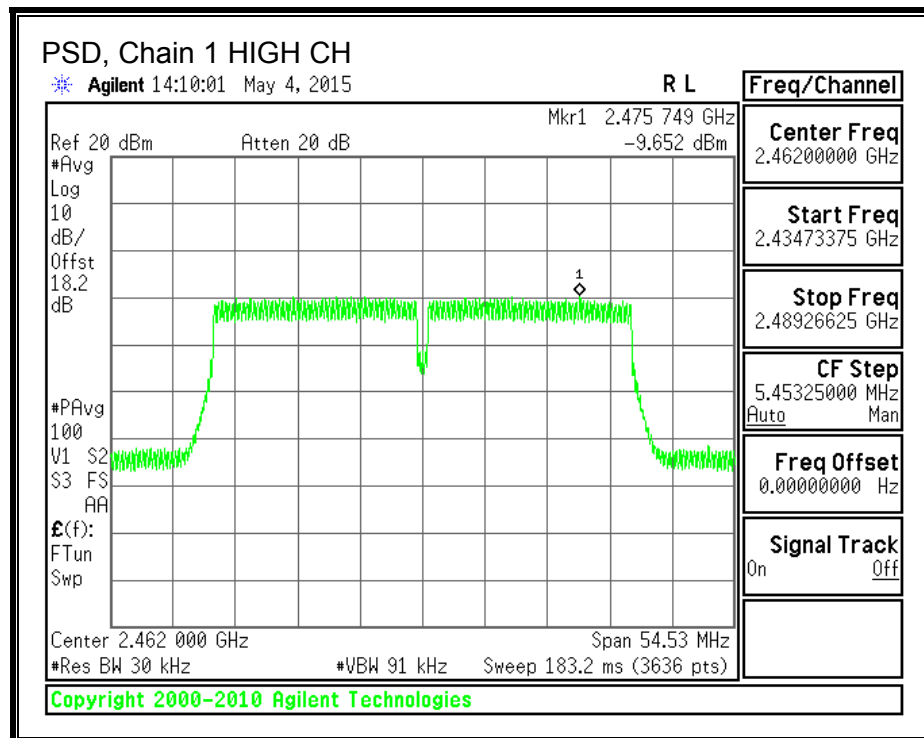
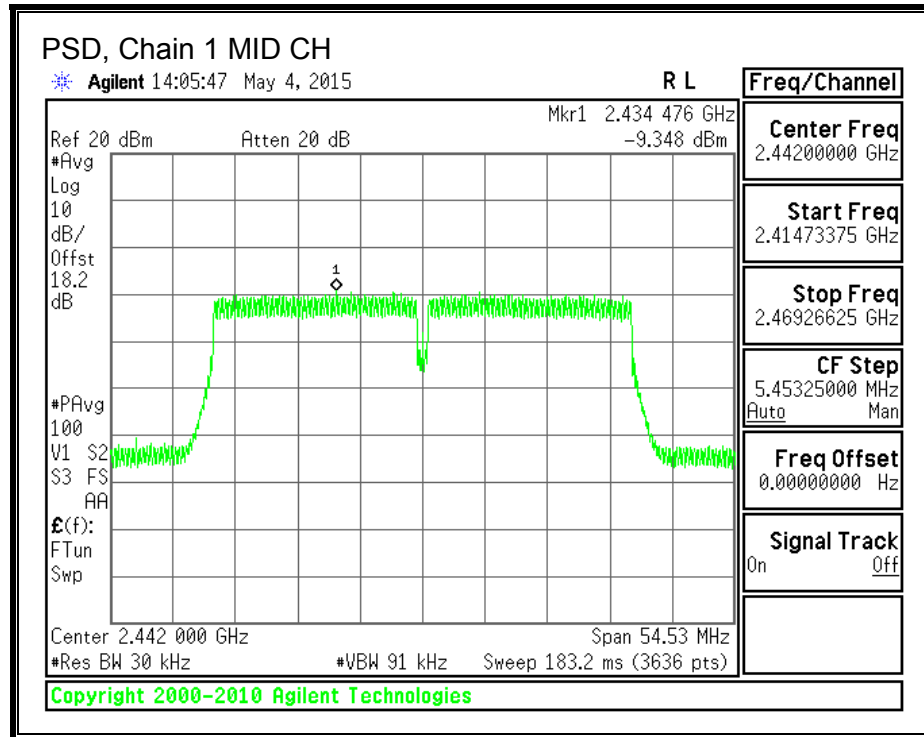
PSD, Chain 0





PSD, Chain 1





8.9.5. OUT-OF-BAND EMISSIONS

LIMITS

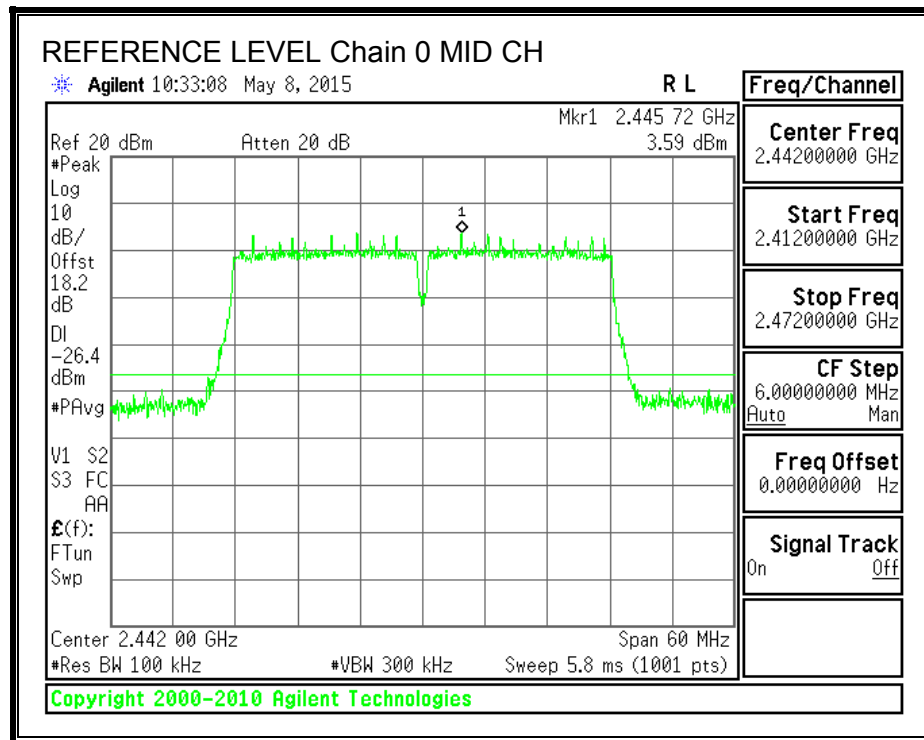
FCC §15.247 (d)

IC RSS-247 Clause 5.5

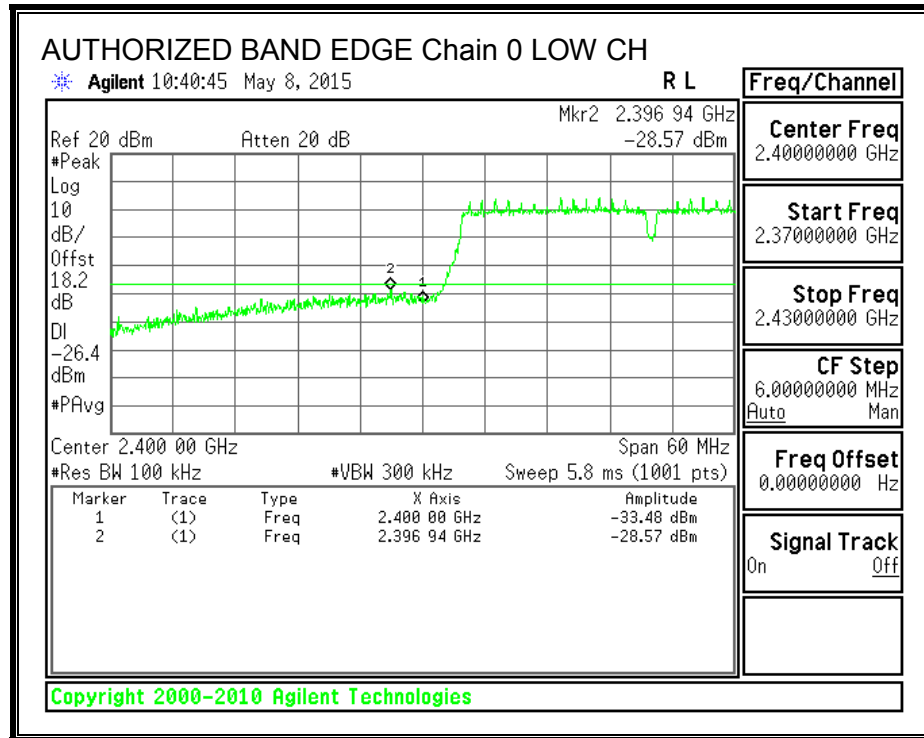
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

RESULTS

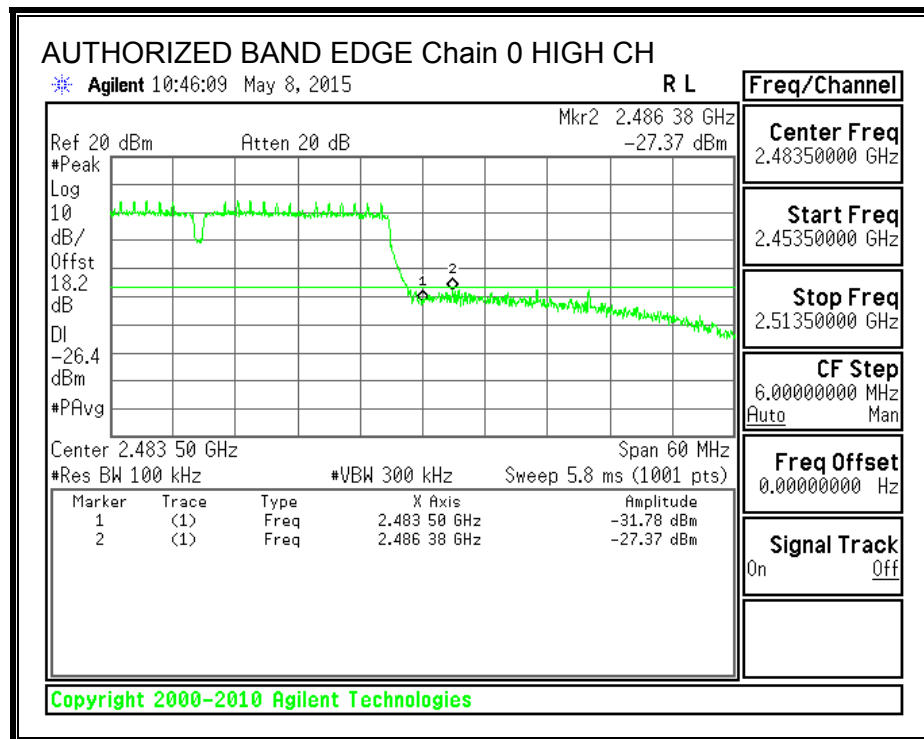
IN-BAND REFERENCE LEVEL, Chain 0



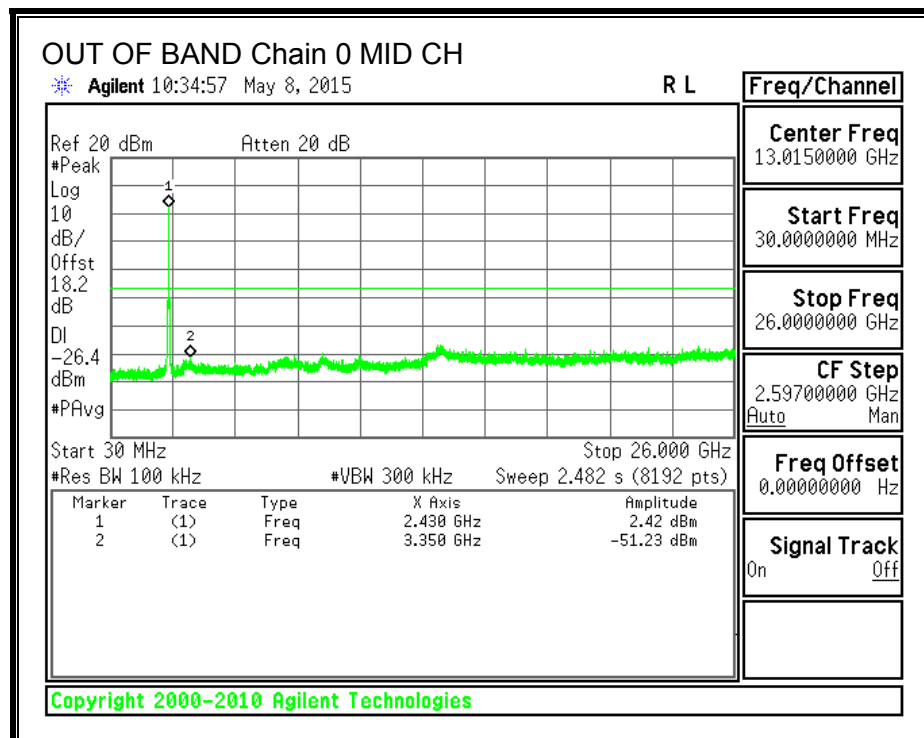
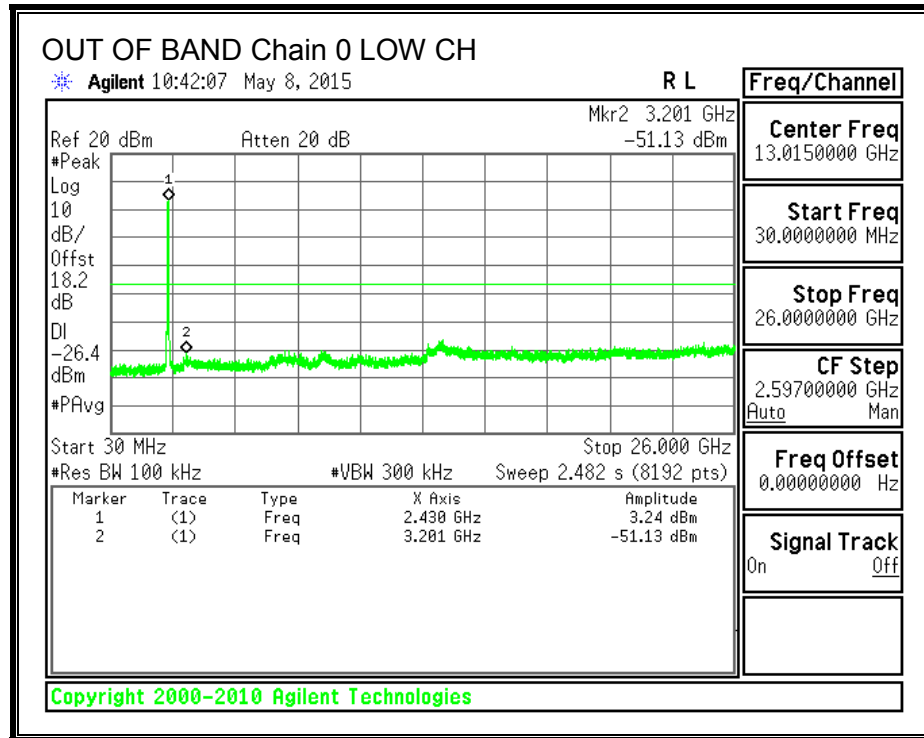
LOW CHANNEL BANDEDGE, Chain 0

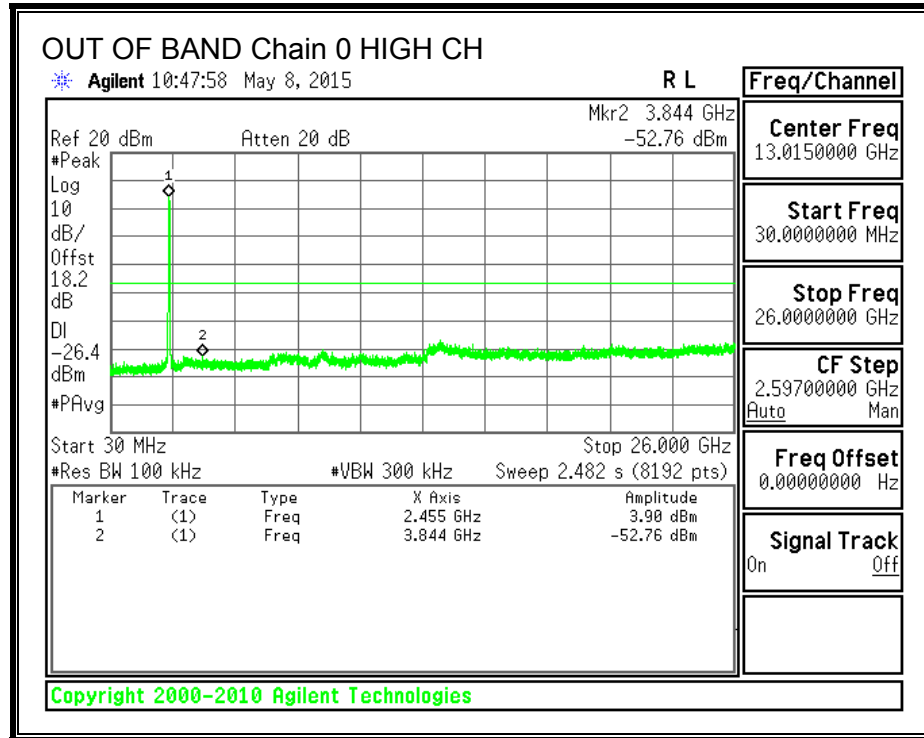


HIGH CHANNEL BANDEDGE, Chain 0

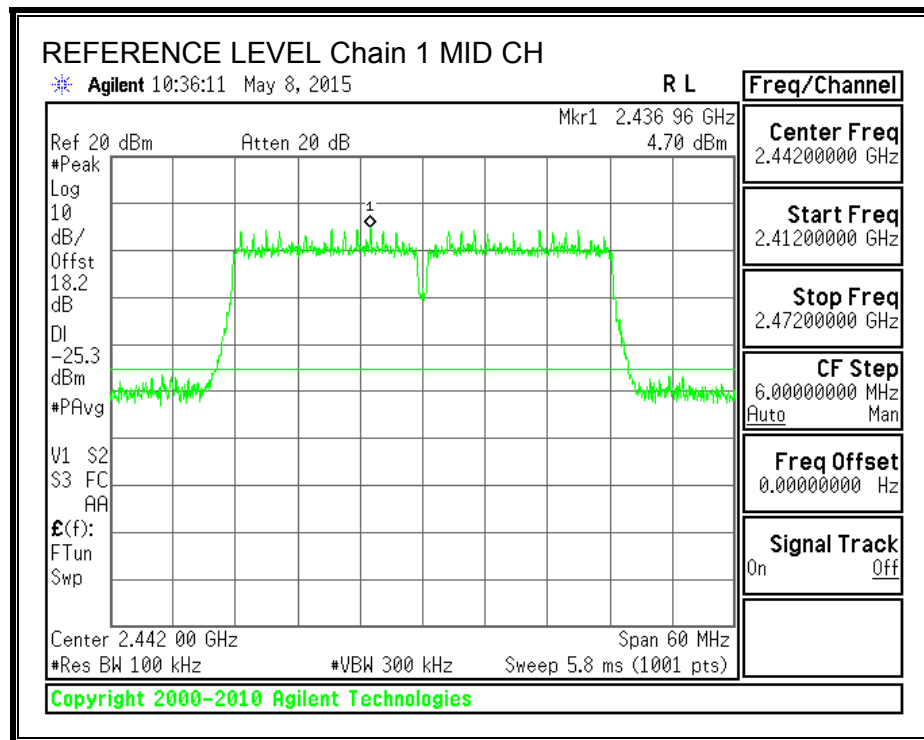


OUT-OF-BAND EMISSIONS, Chain 0

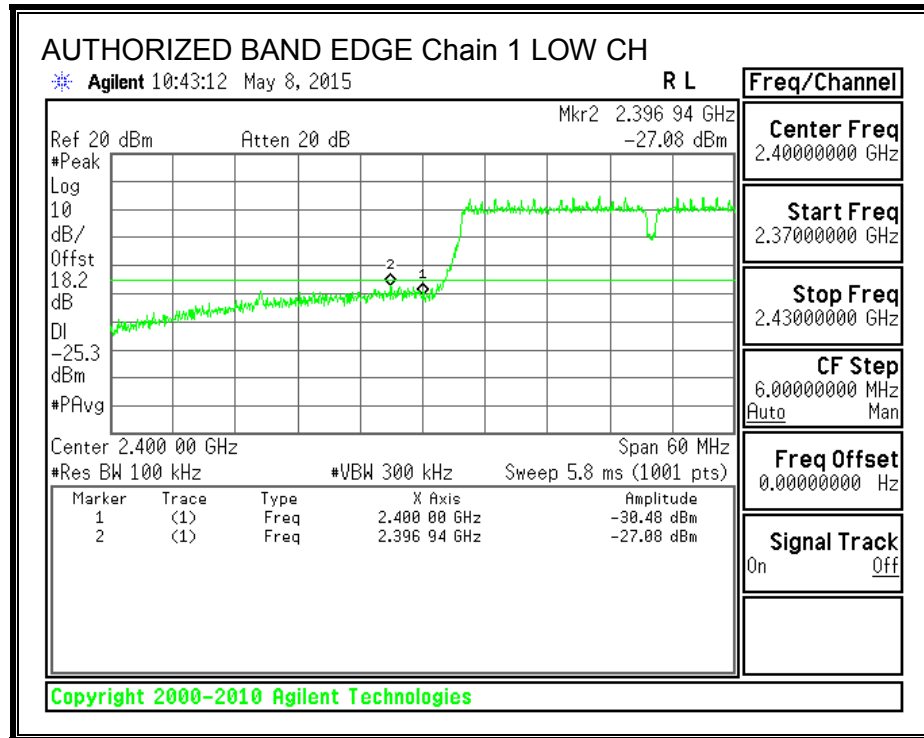




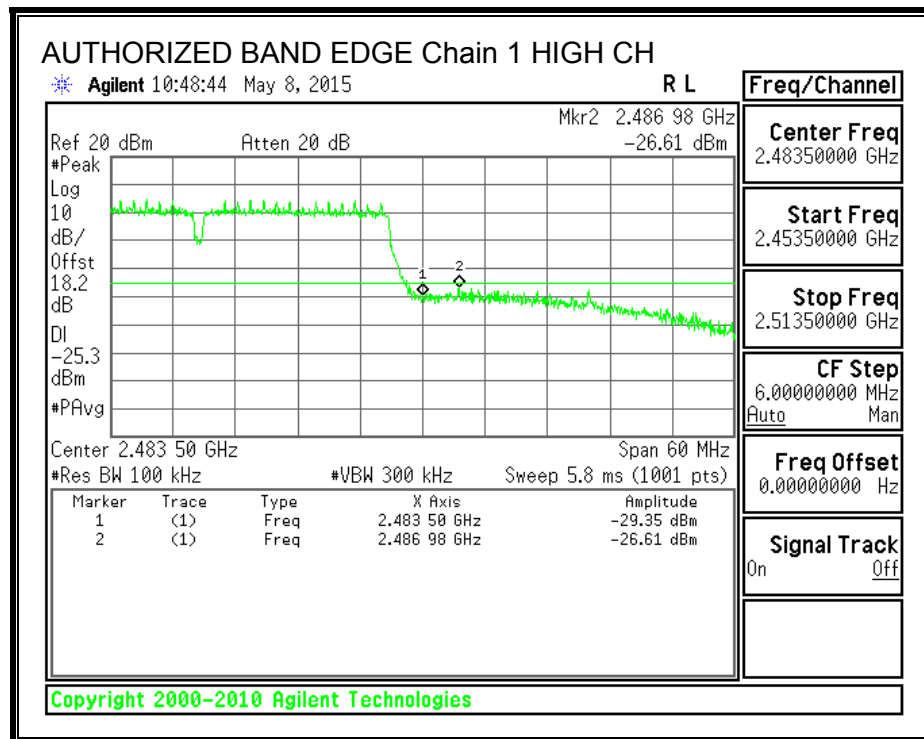
IN-BAND REFERENCE LEVEL, Chain 1



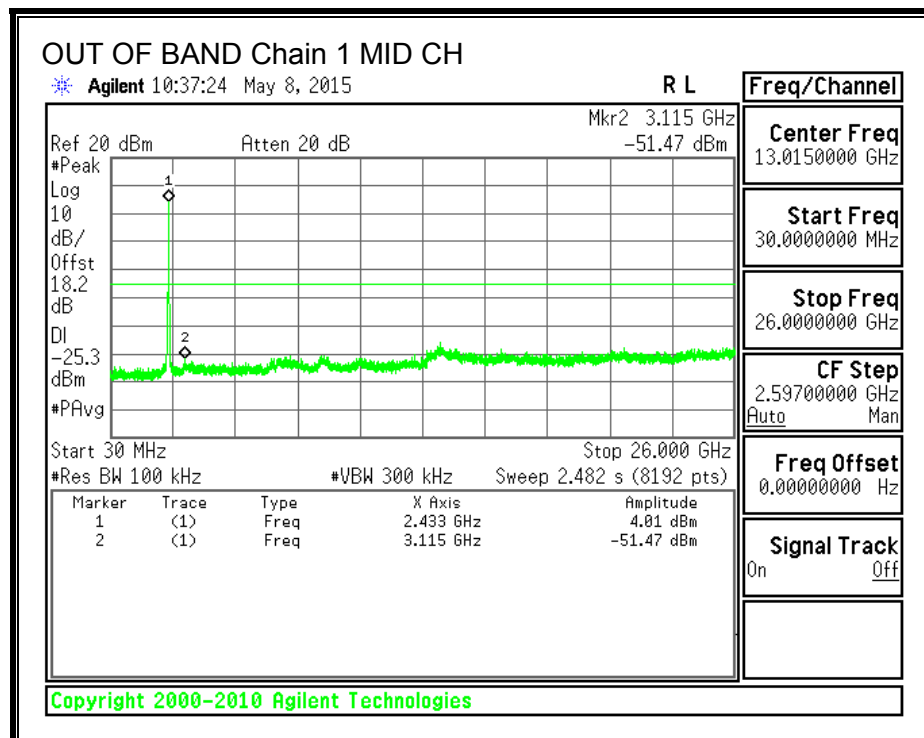
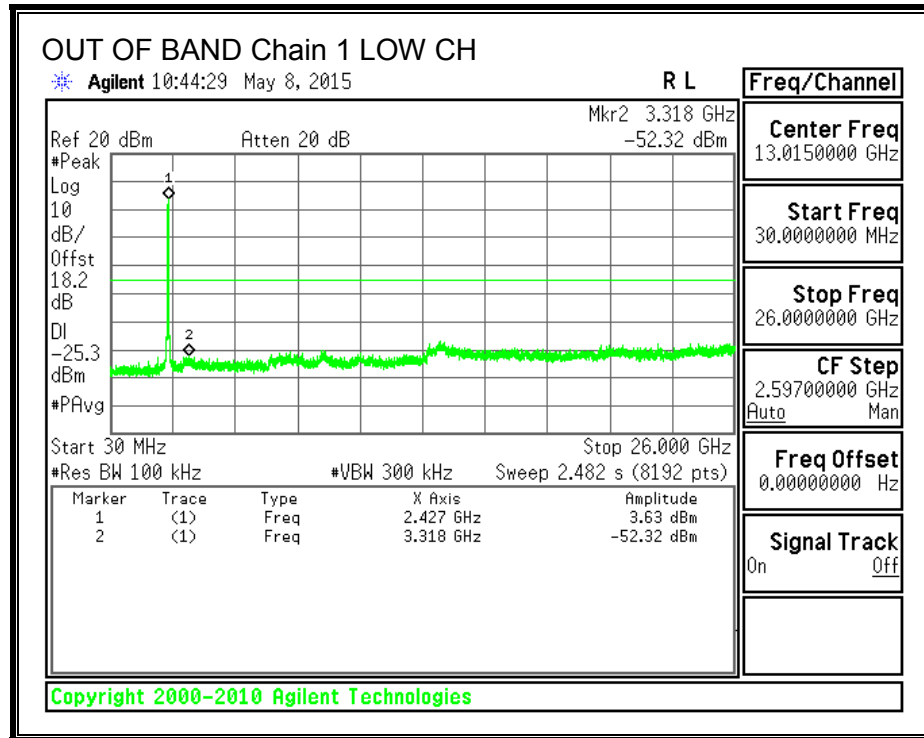
LOW CHANNEL BANDEDGE, Chain 1

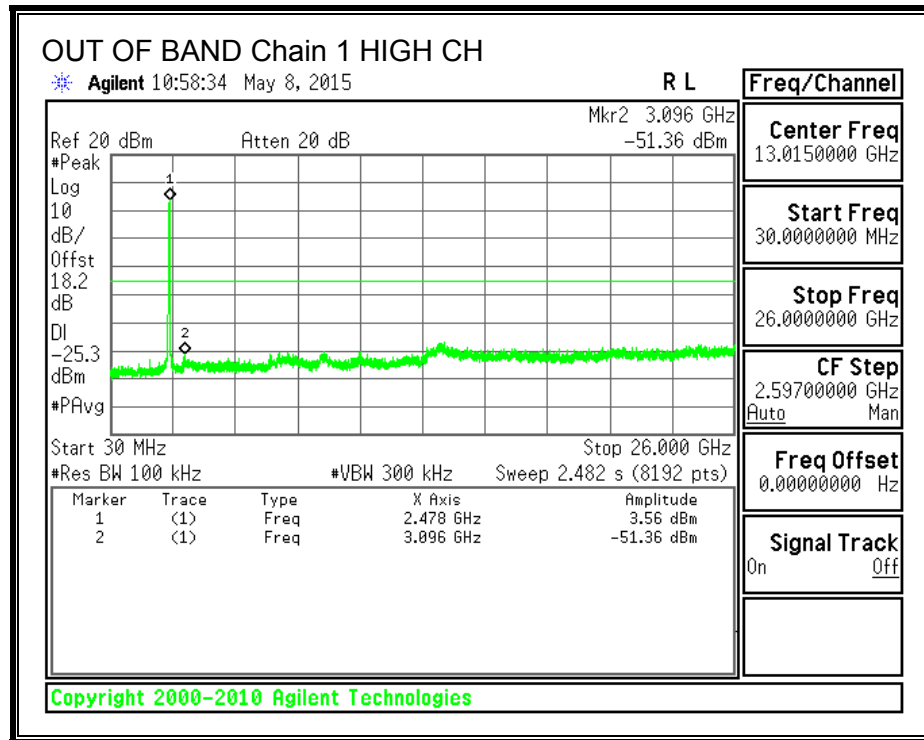


HIGH CHANNEL BANDEDGE, Chain 1



OUT-OF-BAND EMISSIONS, Chain 1





8.10. 802.11n HT40 TxBF 2TX MODE IN THE 2.4 GHz BAND

8.10.1. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 Clause 5.4(4)

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section 5.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (2 chains) (dB)	Correlated Chains Directional Gain (dBi)
3.60	3.01	6.61

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
3	2422	6.61	30	30	36	29.39
4	2427	6.61	30	30	36	29.39
7	2442	6.61	30	30	36	29.39
8	2447	6.61	30	30	36	29.39
9	2452	6.61	30	30	36	29.39
10	2457	6.61	30	30	36	29.39
11	2462	6.61	30	30	36	29.39

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
3	2422	13.20	13.25	16.24	29.39	-13.15
4	2427	14.44	14.53	17.50	29.39	-11.89
7	2442	18.70	19.10	21.91	29.39	-7.48
8	2447	14.51	14.48	17.51	29.39	-11.88
9	2452	12.97	13.05	16.02	29.39	-13.37
10	2457	11.86	11.95	14.92	29.39	-14.47
11	2462	8.00	7.90	10.96	29.39	-18.43

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

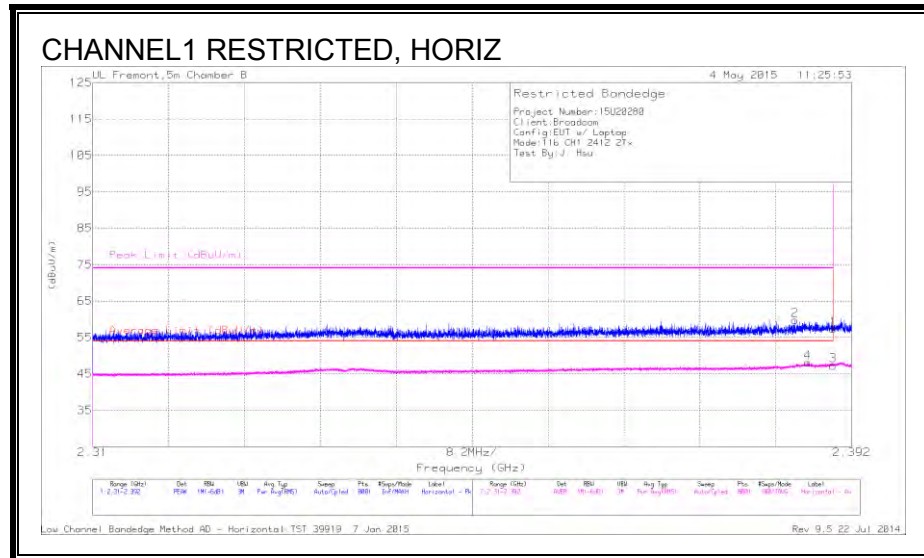
FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 (Transmitter)

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

9.2. TX ABOVE 1 GHz 802.11b 2Tx MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 1)



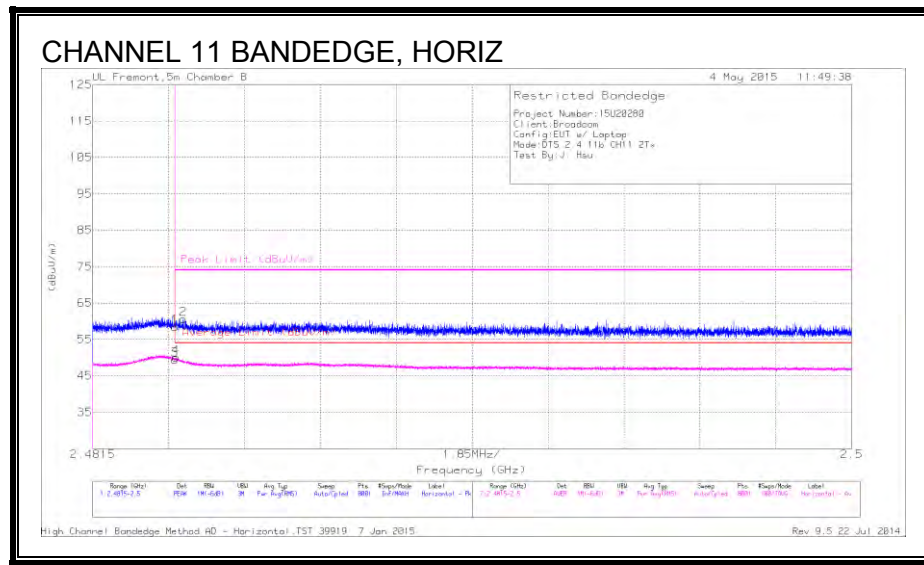
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.386	22.25	PK	32	5.5	59.75	-	-	74	-14.25	267	318	H
4	2.387	10.5	RMS	32	5.5	48	54	-6	-	-	267	318	H
1	2.39	19.86	PK	32	5.5	57.36	-	-	74	-16.64	267	318	H
3	2.39	9.75	RMS	32	5.5	47.25	54	-6.75	-	-	267	318	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



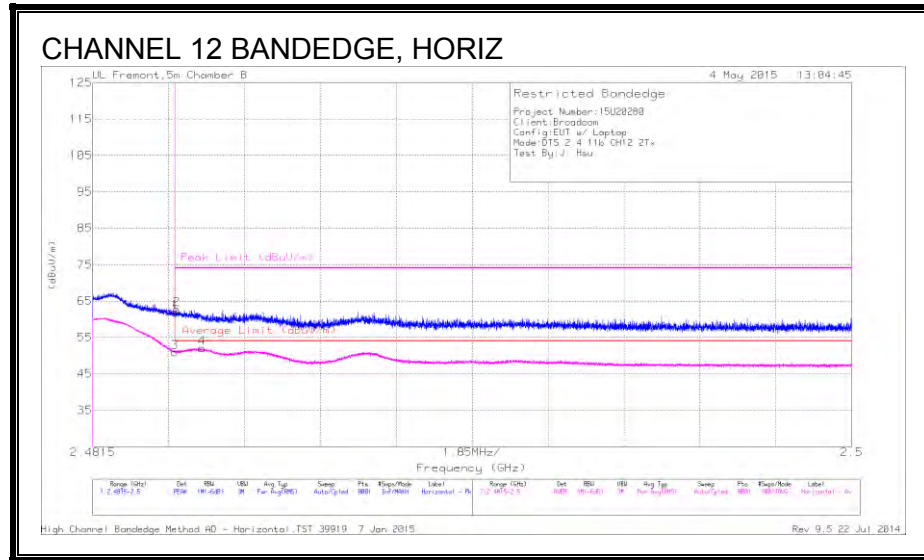
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	20.22	PK	32.5	5.7	58.42	-	-	74	-15.58	316	226	H
2	2.484	22.42	PK	32.5	5.7	60.62	-	-	74	-13.38	316	226	H
3	2.484	11.23	RMS	32.5	5.7	49.43	54	-4.57	-	-	316	226	H
4	2.484	11.81	RMS	32.5	5.7	50.01	54	-3.99	-	-	316	226	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 12)



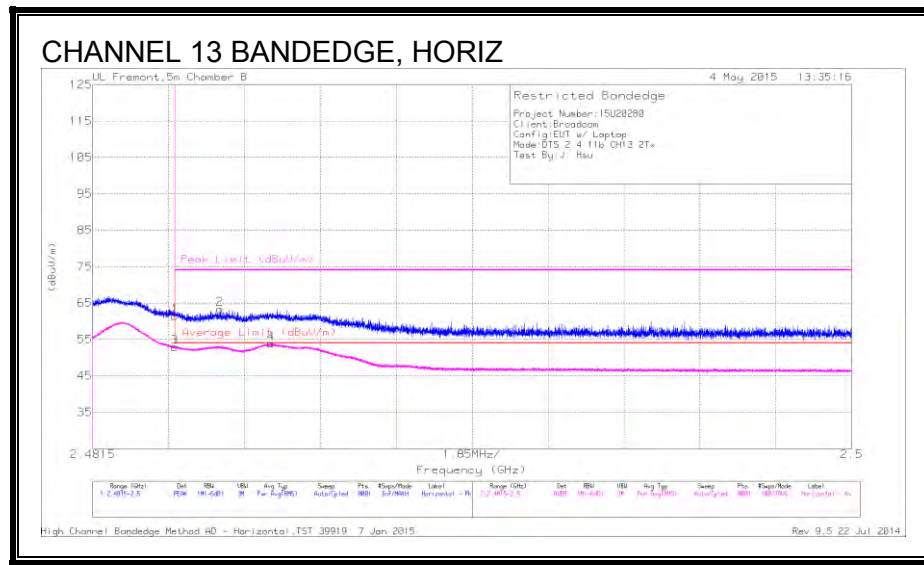
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	23.72	PK	32.5	5.7	61.92	-	-	74	-12.08	256	279	H
2	2.484	24.45	PK	32.5	5.7	62.65	-	-	74	-11.35	256	279	H
3	2.484	12.74	RMS	32.5	5.7	50.94	54	-3.06	-	-	256	279	H
4	2.484	13.83	RMS	32.5	5.7	52.03	54	-1.97	-	-	256	279	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 13)



Trace Markers

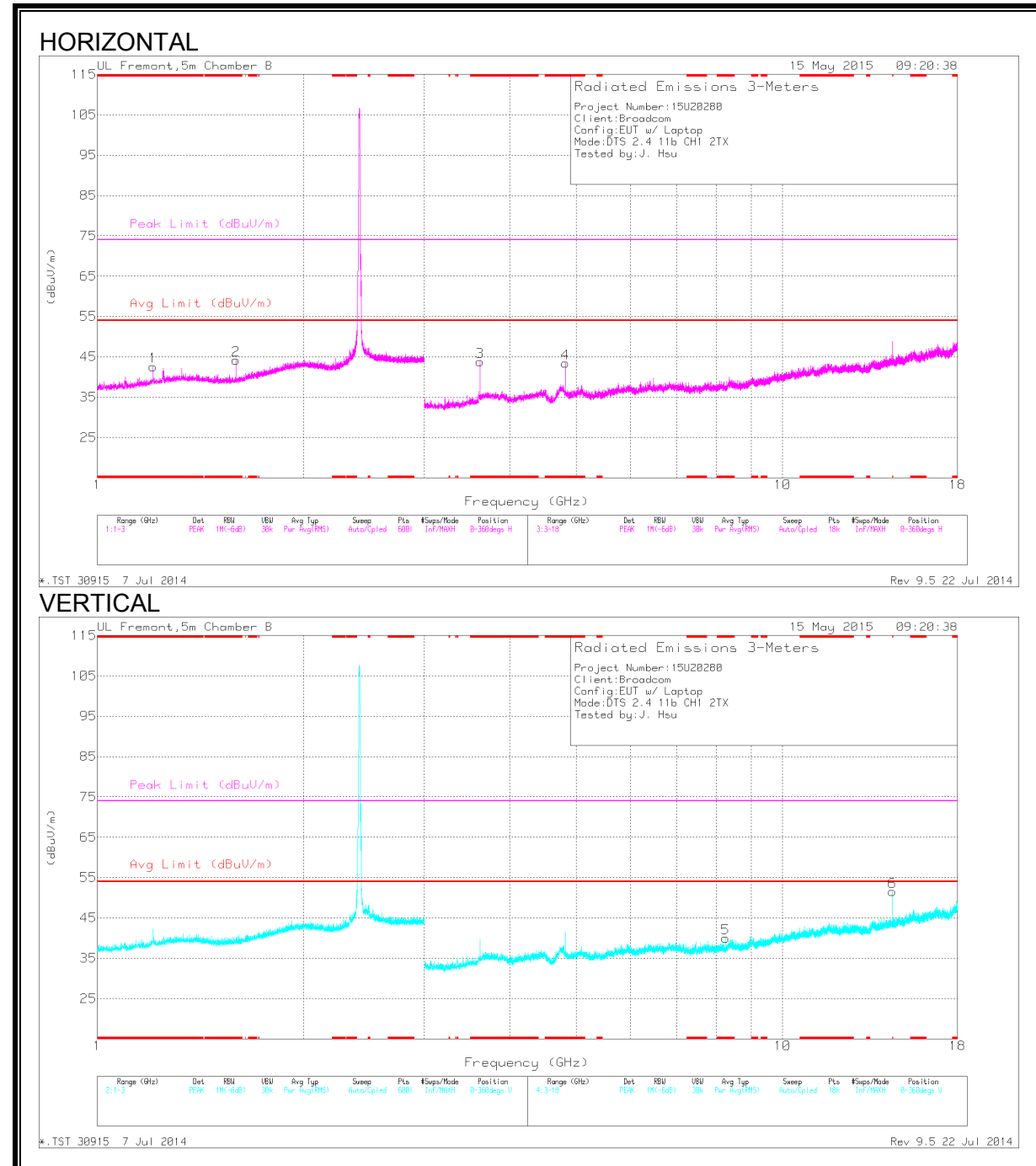
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	23.21	PK	32.5	5.7	61.41	-	-	74	-12.59	320	341	H
3	2.484	14.67	RMS	32.5	5.7	52.87	54	-1.13	-	-	320	341	H
2	2.485	25.11	PK	32.5	5.7	63.31	-	-	74	-10.69	320	341	H
4	2.486	15.7	RMS	32.5	5.7	53.9	54	-.1	-	-	320	341	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.206	45.06	PK2	28.5	-24.3	49.26	-	-	74	-24.74	227	193	H
	* 1.206	35.49	MAv1	28.5	-24.3	39.69	54	-14.31	-	-	227	193	H
2	* 1.593	53.94	PK2	28.8	-23.7	59.04	-	-	74	-14.96	39	137	H
	* 1.593	31.02	MAv1	28.8	-23.7	36.12	54	-17.88	-	-	39	137	H
3	* 3.618	45.66	PK2	33.8	-30.7	48.76	-	-	74	-25.24	273	233	H
	* 3.618	41.07	MAv1	33.8	-30.7	44.17	54	-9.83	-	-	273	233	H
4	* 4.824	43.33	PK2	34.3	-29.7	47.93	-	-	74	-26.07	108	270	H
	* 4.824	37.7	MAv1	34.3	-29.7	42.3	54	-11.7	-	-	108	270	H
5	* 8.265	37.18	PK2	35.7	-26.5	46.38	-	-	74	-27.62	109	252	V
	* 8.264	26.4	MAv1	35.7	-26.6	35.5	54	-18.5	-	-	109	252	V
6	* 14.472	39.91	PK2	39.6	-22.1	57.41	-	-	74	-16.59	27	205	V
	* 14.472	34.23	MAv1	39.6	-22.1	51.73	54	-2.27	-	-	27	205	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

** - indicates frequency covered by BE measurement

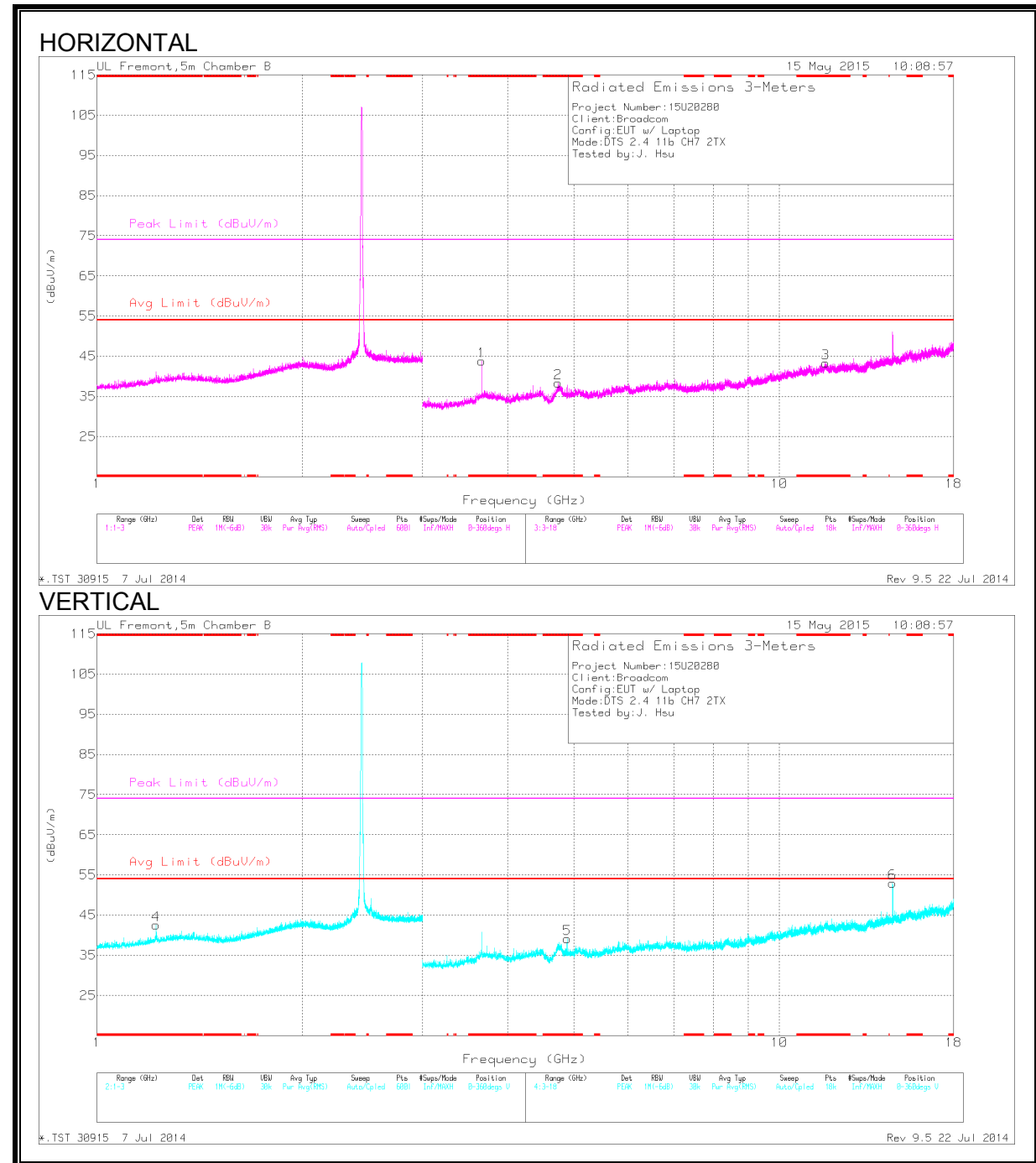
-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.221	45.29	PK2	28.7	-24.3	49.69	-	-	74	-24.31	252	111	V
	* 1.221	35.17	MAv1	28.7	-24.3	39.57	54	-14.43	-	-	252	111	V
1	* 3.663	46.15	PK2	33.7	-30.8	49.05	-	-	74	-24.95	272	204	H
	* 3.663	41.19	MAv1	33.7	-30.8	44.09	54	-9.91	-	-	272	204	H
2	* 4.739	39.43	PK2	34.3	-29.1	44.63	-	-	74	-29.37	360	400	H
	* 4.74	28.48	MAv1	34.3	-29.1	33.68	54	-20.32	-	-	360	400	H
3	* 11.695	34.72	PK2	38.5	-21.8	51.42	-	-	74	-22.58	350	353	H
	* 11.695	23.4	MAv1	38.5	-21.7	40.2	54	-13.8	-	-	350	353	H
5	* 4.884	42.43	PK2	34.2	-30.4	46.23	-	-	74	-27.77	214	282	V
	* 4.884	35.33	MAv1	34.2	-30.4	39.13	54	-14.87	-	-	214	282	V
6	14.652	40.37	PK2	39.8	-21.3	58.87	-	-	-	-	24	105	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

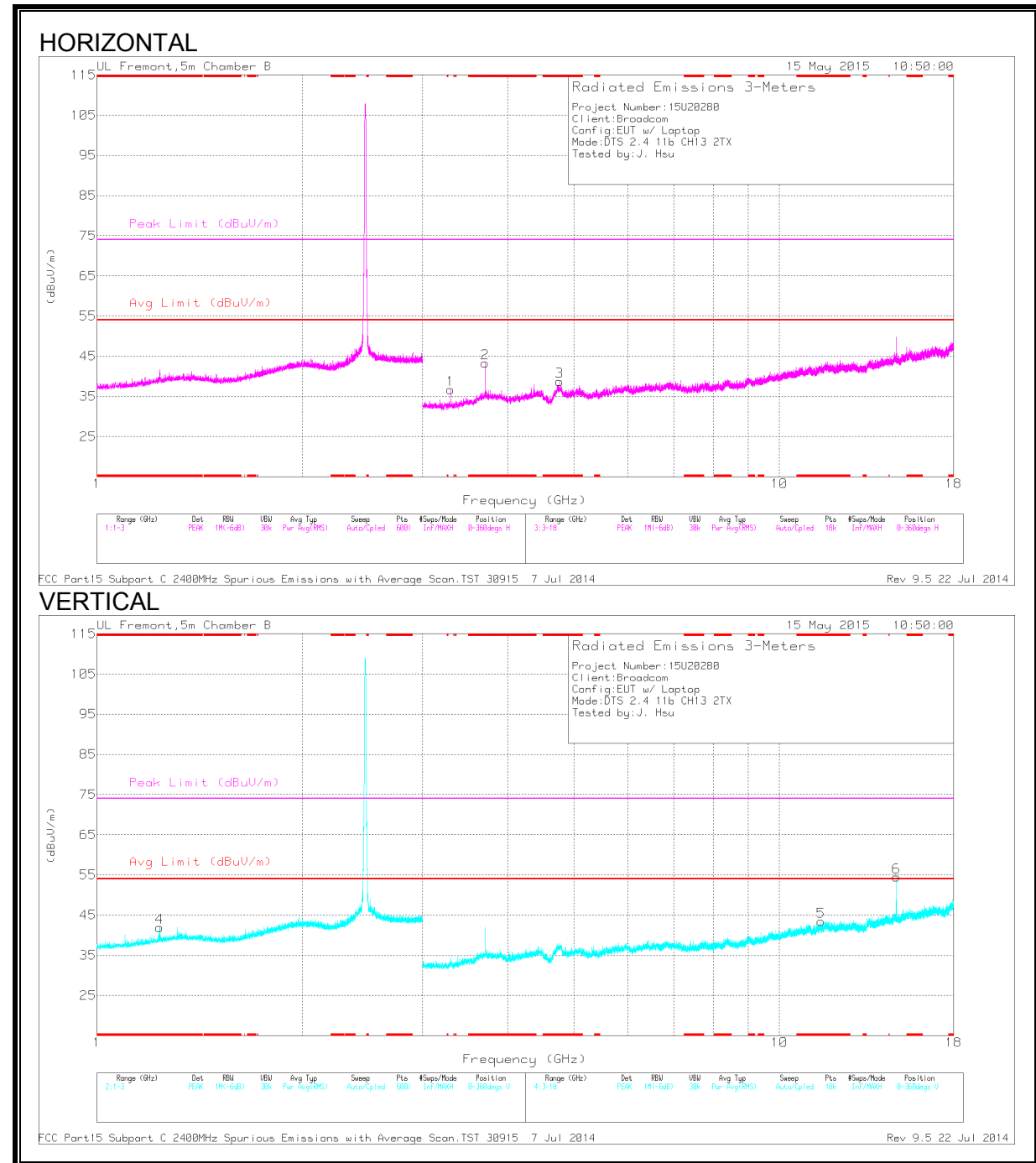
-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.236	44.62	PK2	28.8	-24.2	49.22	-	-	74	-24.78	232	185	V
	* 1.236	35.06	MAv1	28.8	-24.2	39.66	54	-14.34	-	-	232	185	V
2	* 3.708	45.61	PK2	33.6	-31.2	48.01	-	-	74	-25.99	296	264	H
	* 3.708	40.41	MAv1	33.6	-31.2	42.81	54	-11.19	-	-	296	264	H
3	* 4.762	39.3	PK2	34.3	-29	44.6	-	-	74	-29.4	300	244	H
	* 4.761	28.41	MAv1	34.3	-29	33.71	54	-20.29	-	-	300	244	H
5	* 11.517	34.33	PK2	38.3	-22.5	50.13	-	-	74	-23.87	298	230	V
	* 11.515	23.68	MAv1	38.3	-22.5	39.48	54	-14.52	-	-	298	230	V
1	3.296	41.71	PK2	32.8	-30.8	43.71	-	-	-	-	273	229	H
	3.296	33.58	MAv1	32.8	-30.8	35.58	-	-	-	-	273	229	H
6	14.832	39.82	PK2	39.8	-21.5	58.12	-	-	-	-	13	105	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

** - indicates frequency covered by BE measurement

-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

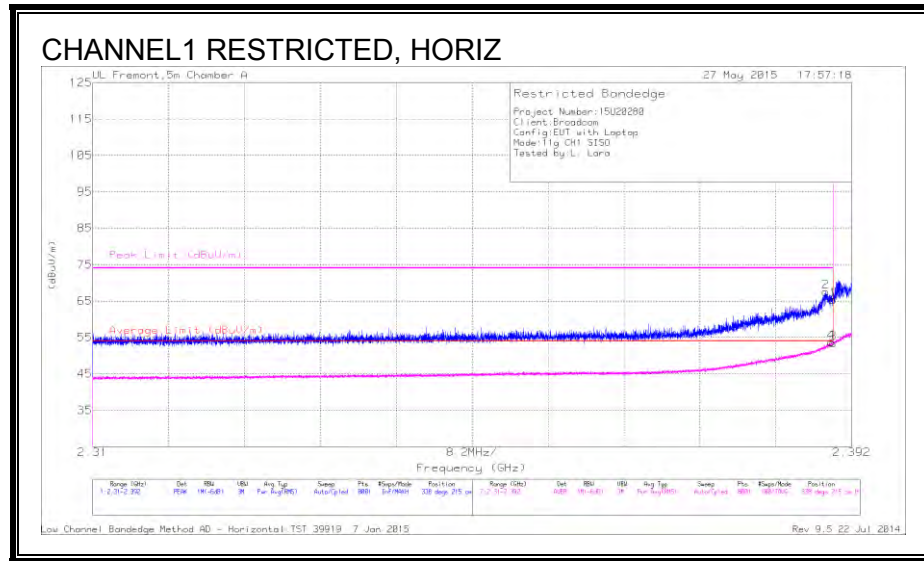
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.3. TX ABOVE 1 GHz 802.11g LEGACY MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 1)



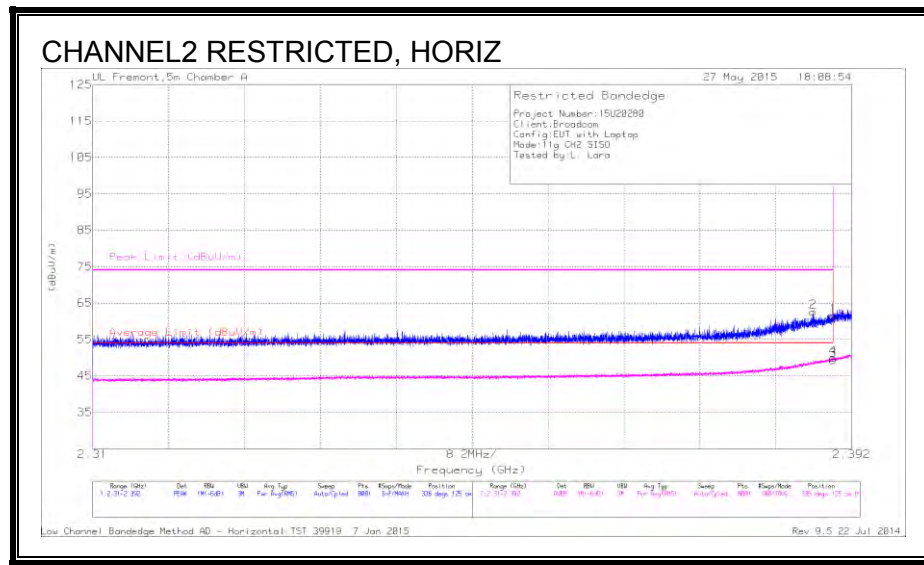
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	28.37	PK	32	4.9	65.27	-	-	74	-8.73	338	215	H
2	* 2.389	30.64	PK	32	4.9	67.54	-	-	74	-6.46	338	215	H
3	* 2.39	16.48	RMS	32	4.9	53.38	54	-.62	-	-	338	215	H
4	* 2.39	16.74	RMS	32	4.9	53.64	54	-.36	-	-	338	215	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEGE (CHANNEL 2)



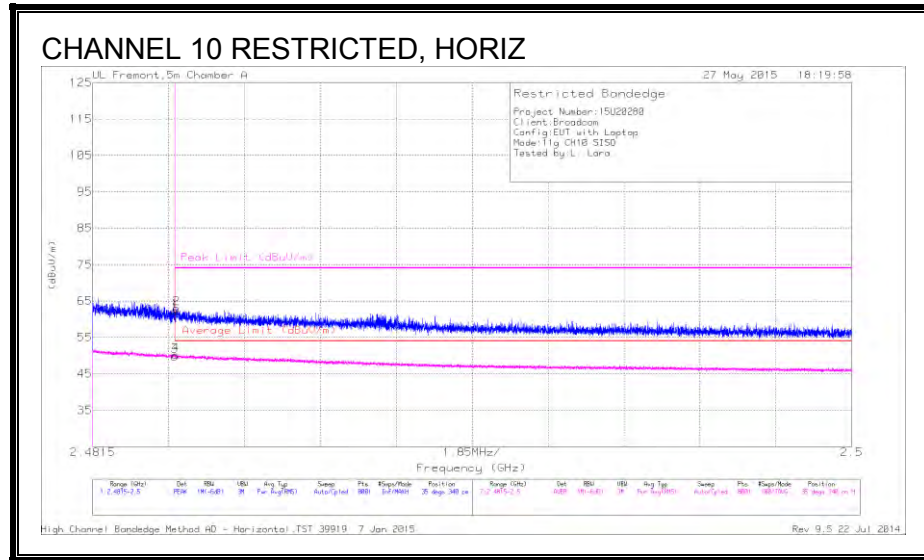
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.388	25.67	PK	32	4.9	62.57	-	-	74	-11.43	336	125	H
1	* 2.39	24.51	PK	32	4.9	61.41	-	-	74	-12.59	336	125	H
3	* 2.39	12.37	RMS	32	4.9	49.27	54	-4.73	-	-	336	125	H
4	* 2.39	12.97	RMS	32	4.9	49.87	54	-4.13	-	-	336	125	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 10)



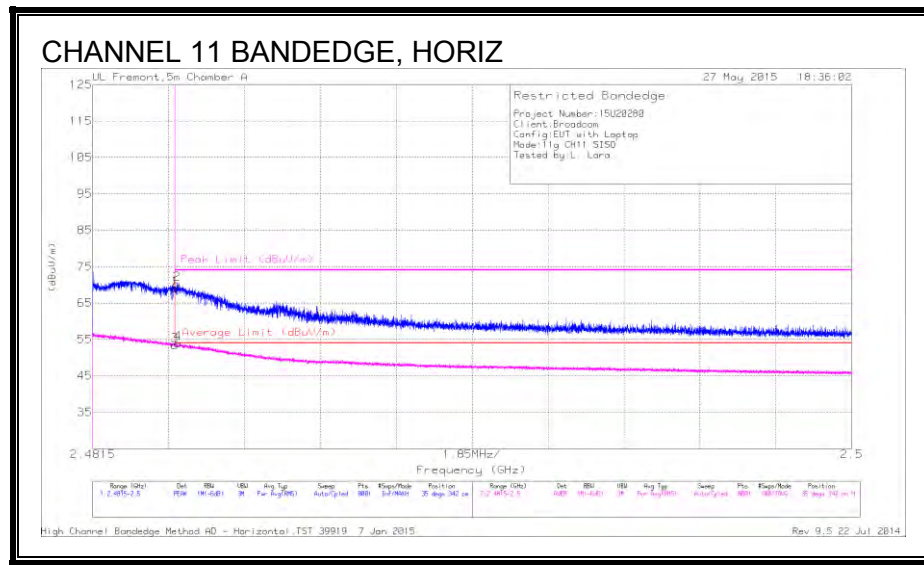
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	25.18	PK	32.1	5	62.28	-	-	74	-11.72	35	340	H
2	* 2.484	25.87	PK	32.1	5	62.97	-	-	74	-11.03	35	340	H
3	* 2.484	12.76	RMS	32.1	5	49.86	54	-4.14	-	-	35	340	H
4	* 2.484	13.09	RMS	32.1	5	50.19	54	-3.81	-	-	35	340	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



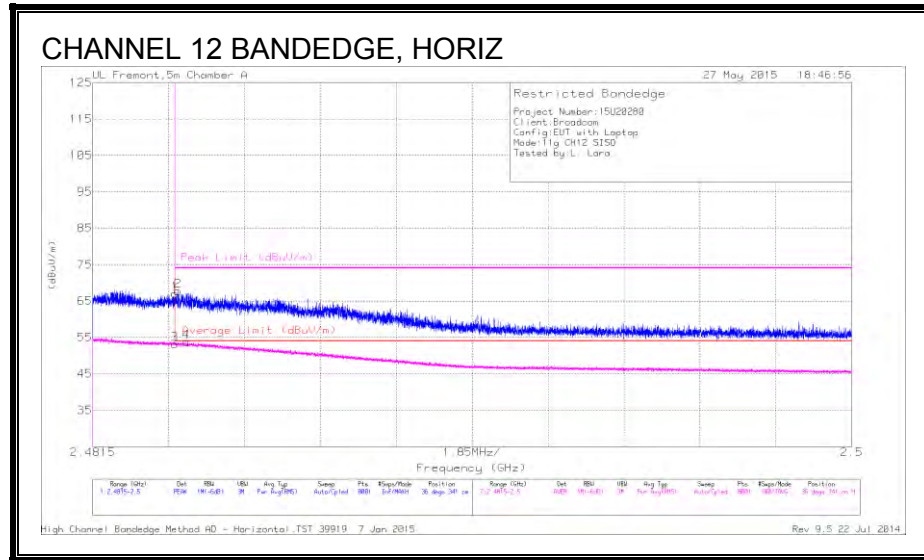
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	31.95	PK	32.1	5	69.05	-	-	74	-4.95	35	342	H
2	* 2.484	33.15	PK	32.1	5	70.25	-	-	74	-3.75	35	342	H
3	* 2.484	16.28	RMS	32.1	5	53.38	54	-.62	-	-	35	342	H
4	* 2.484	16.85	RMS	32.1	5	53.95	54	-.05	-	-	35	342	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 12)



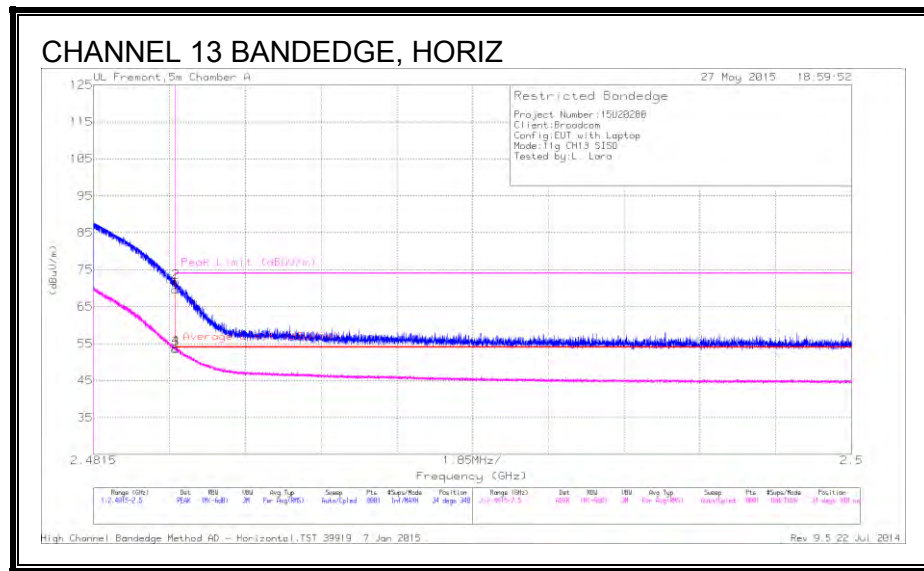
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	29.91	PK	32.1	5	67.01	-	-	74	-6.99	36	341	H
2	* 2.484	30.64	PK	32.1	5	67.74	-	-	74	-6.26	36	341	H
3	* 2.484	16.03	RMS	32.1	5	53.13	54	-.87	-	-	36	341	H
4	* 2.484	16.62	RMS	32.1	5	53.72	54	-.28	-	-	36	341	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 13)



Trace Markers

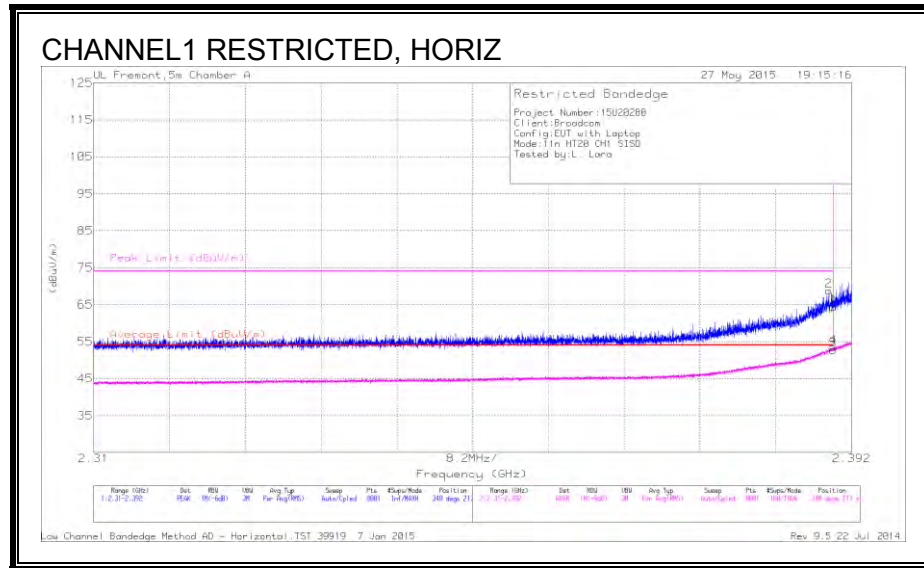
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	32.56	PK	32.1	5	69.66	-	-	74	-4.34	34	340	H
2	* 2.484	34.57	PK	32.1	5	71.67	-	-	74	-2.33	34	340	H
3	* 2.484	16.46	RMS	32.1	5	53.56	54	-44	-	-	34	340	H
4	* 2.484	16.76	RMS	32.1	5	53.86	54	-14	-	-	34	340	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

9.4. TX ABOVE 1 GHz 802.11n HT20 CDD SISO MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 1)



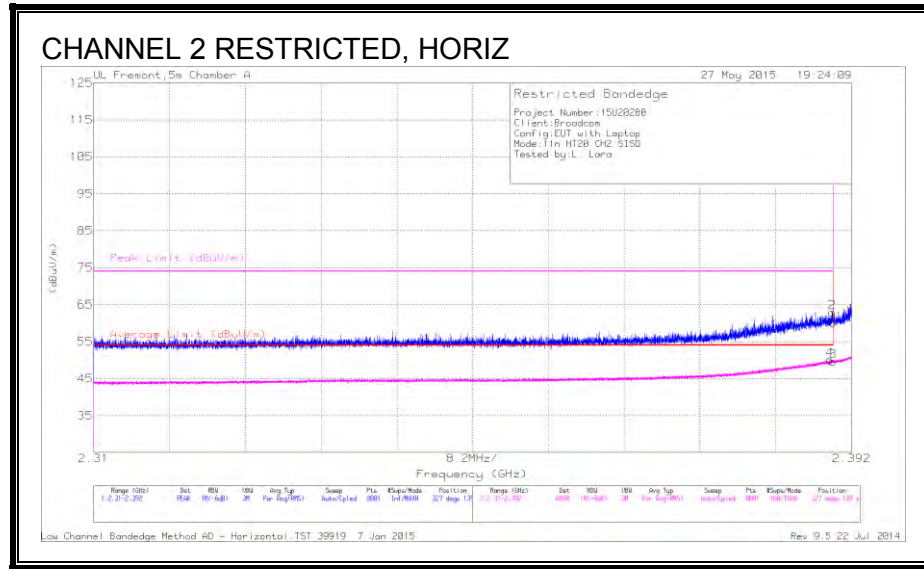
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	27.54	PK	32	4.9	64.44	-	-	74	-9.56	340	217	H
2	* 2.39	31.85	PK	32	4.9	68.75	-	-	74	-5.25	340	217	H
3	* 2.39	15.83	RMS	32	4.9	52.73	54	-1.27	-	-	340	217	H
4	* 2.39	16.58	RMS	32	4.9	53.48	54	-1.52	-	-	340	217	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 2)



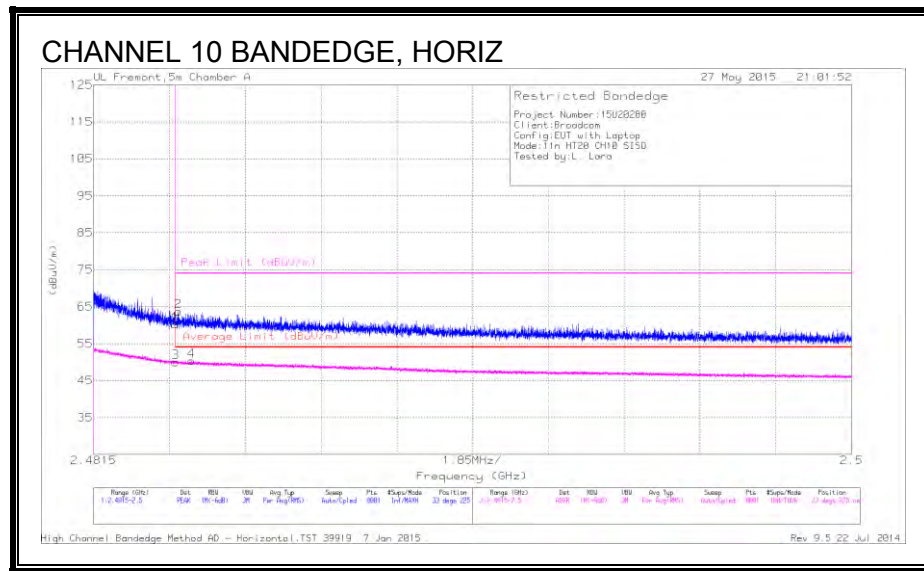
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	23.2	PK	32	4.9	60.1	-	-	74	-13.9	327	139	H
2	* 2.39	25.98	PK	32	4.9	62.88	-	-	74	-11.12	327	139	H
3	* 2.39	12.78	RMS	32	4.9	49.68	54	-4.32	-	-	327	139	H
4	* 2.39	13.13	RMS	32	4.9	50.03	54	-3.97	-	-	327	139	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)



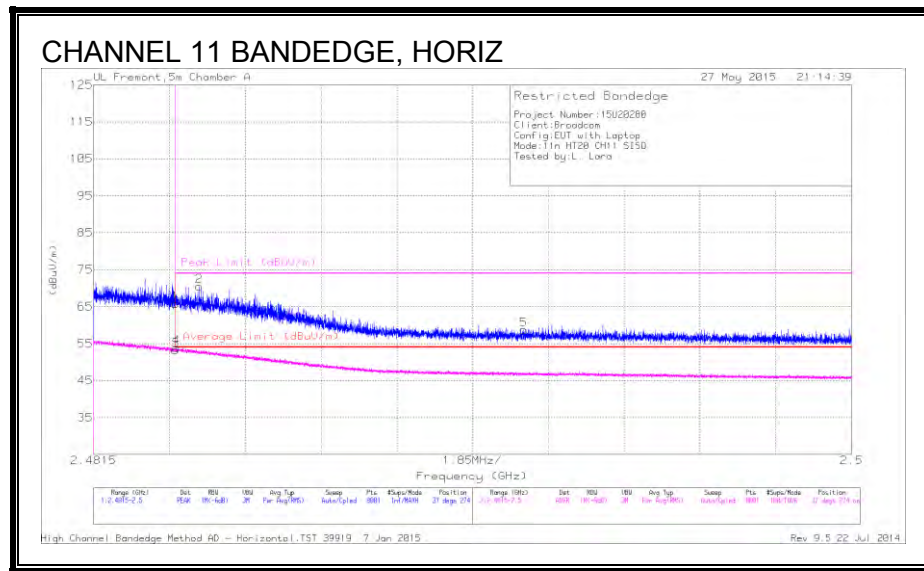
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	23.14	PK	32.1	5	60.24	-	-	74	-13.76	33	225	H
2	* 2.484	26.61	PK	32.1	5	63.71	-	-	74	-10.29	33	225	H
3	* 2.484	12.88	RMS	32.1	5	49.98	54	-4.02	-	-	33	225	H
4	* 2.484	13.24	RMS	32.1	5	50.34	54	-3.66	-	-	33	225	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



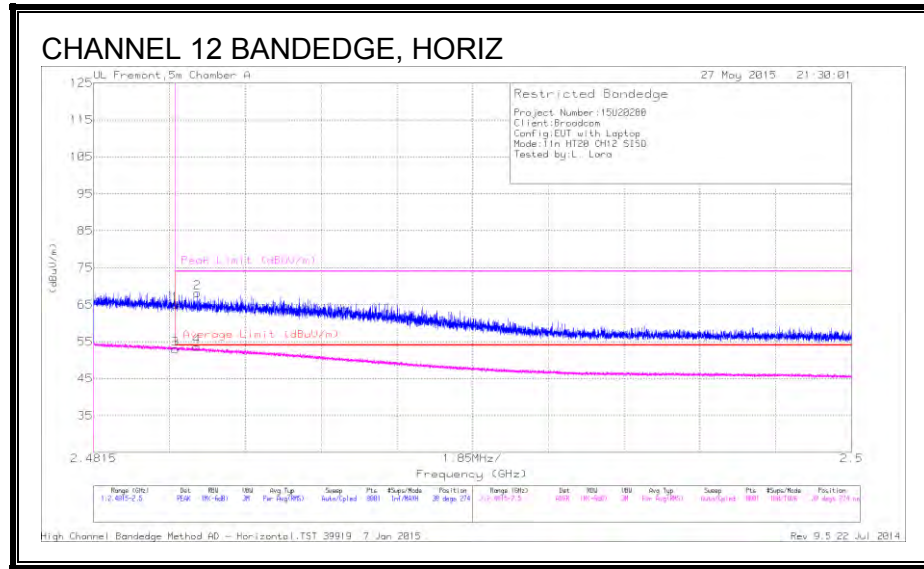
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	28.7	PK	32.1	5	65.8	-	-	74	-8.2	37	274	H
2	* 2.484	33.4	PK	32.1	5	70.5	-	-	74	-3.5	37	274	H
3	* 2.484	16.14	RMS	32.1	5	53.24	54	-76	-	-	37	274	H
4	* 2.484	16.81	RMS	32.1	5	53.91	54	-09	-	-	37	274	H
5	* 2.492	21.52	PK	32.1	5.1	58.72	-	-	74	-15.28	37	274	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 12)



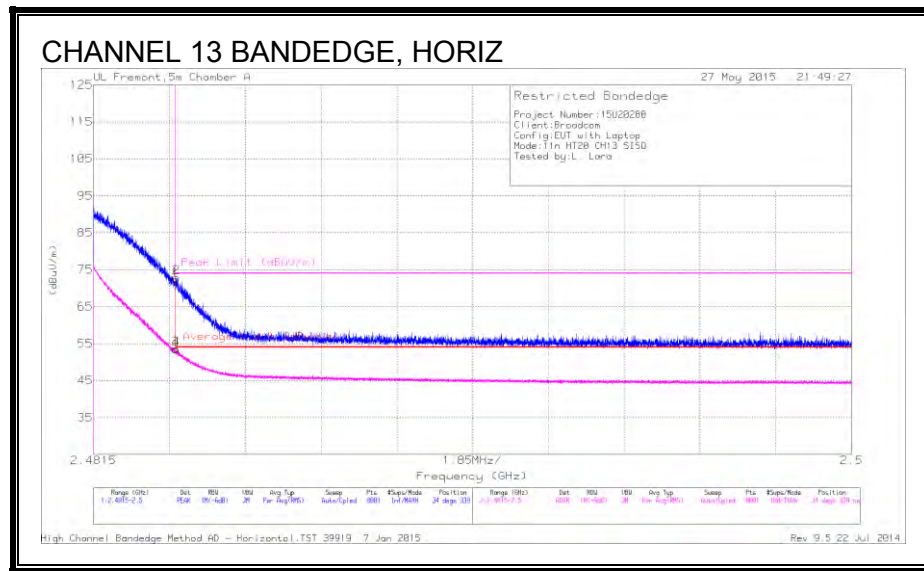
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	27.94	PK	32.1	5	65.04	-	-	74	-8.96	38	274	H
2	* 2.484	31.12	PK	32.1	5	68.22	-	-	74	-5.78	38	274	H
3	* 2.484	15.87	RMS	32.1	5	52.97	54	-1.03	-	-	38	274	H
4	* 2.484	16.53	RMS	32.1	5	53.63	54	-.37	-	-	38	274	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 13)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	35.32	PK	32.1	5	72.42	-	-	74	-1.58	34	339	H
2	* 2.484	35.77	PK	32.1	5	72.87	-	-	74	-1.13	34	339	H
3	* 2.484	16.53	RMS	32.1	5	53.63	54	-1.37	-	-	34	339	H
4	* 2.484	16.32	RMS	32.1	5	53.42	54	-1.58	-	-	34	339	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

9.5. TX ABOVE 1 GHz 802.11n HT20 CDD 2Tx MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 1)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	30.6	PK	32	5.5	68.1	-	-	74	-5.9	302	319	H
4	2.389	15.98	RMS	32	5.5	53.48	54	-5.2	-	-	302	319	H
1	2.39	23.01	PK	32	5.5	60.51	-	-	74	-13.49	302	319	H
3	2.39	13.01	RMS	32	5.5	50.51	54	-3.49	-	-	302	319	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEGE (CHANNEL 2)



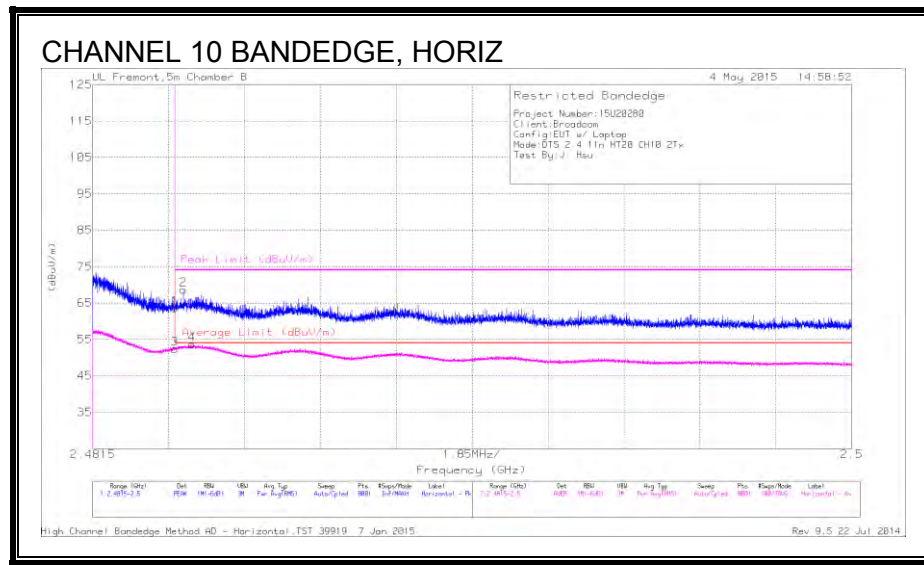
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	28.78	PK	32	5.5	66.28	-	-	74	-7.72	302	319	H
4	2.389	15.85	RMS	32	5.5	53.35	54	-0.65	-	-	302	319	H
1	2.39	24.32	PK	32	5.5	61.82	-	-	74	-12.18	302	319	H
3	2.39	12.75	RMS	32	5.5	50.25	54	-3.75	-	-	302	319	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)



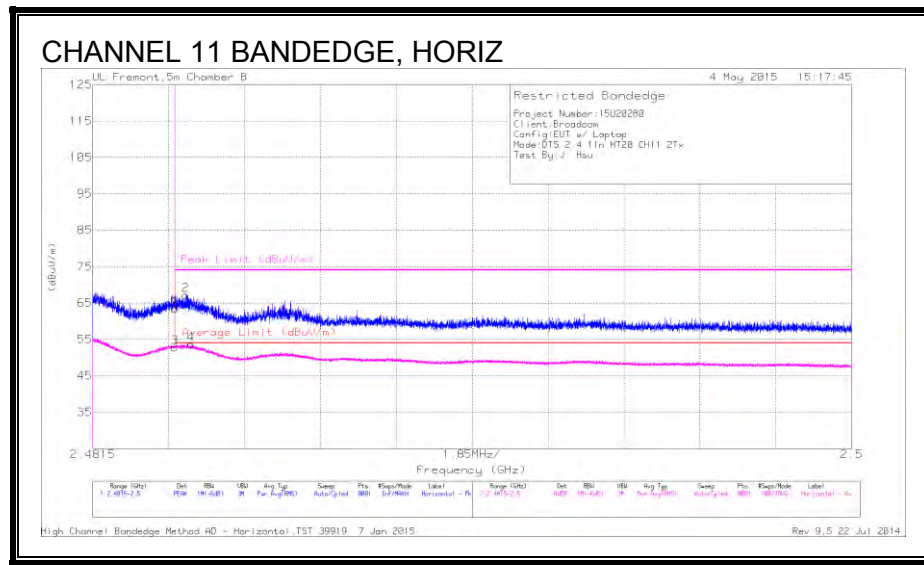
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	25.39	PK	32.5	5.7	63.59	-	-	74	-10.41	312	279	H
2	2.484	30.48	PK	32.5	5.7	68.68	-	-	74	-5.32	312	279	H
3	2.484	14.15	RMS	32.5	5.7	52.35	54	-1.65	-	-	312	279	H
4	2.484	15.4	RMS	32.5	5.7	53.6	54	-.4	-	-	312	279	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



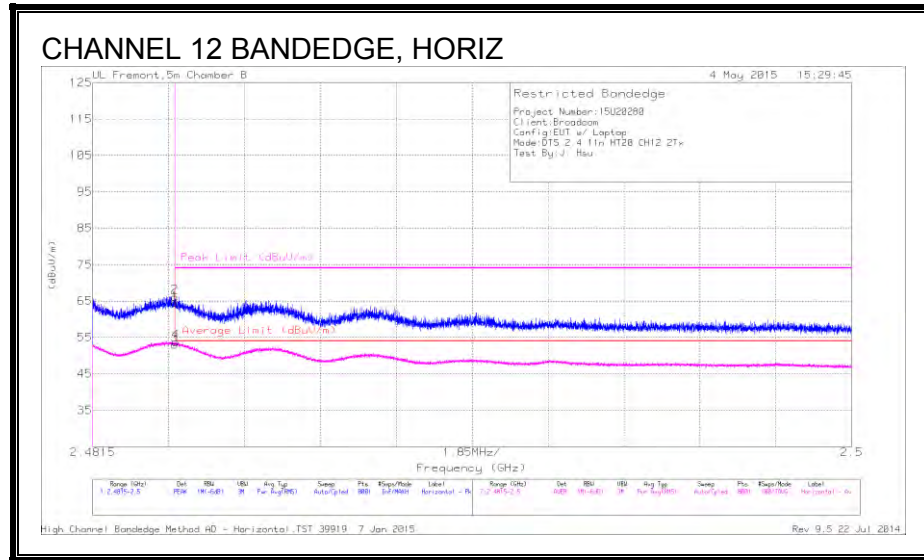
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	25.28	PK	32.5	5.7	63.48	-	-	74	-10.52	303	353	H
2	2.484	29.03	PK	32.5	5.7	67.23	-	-	74	-6.77	303	353	H
3	2.484	14.59	RMS	32.5	5.7	52.79	54	-1.21	-	-	303	353	H
4	2.484	15.5	RMS	32.5	5.7	53.7	54	-.3	-	-	303	353	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 12)



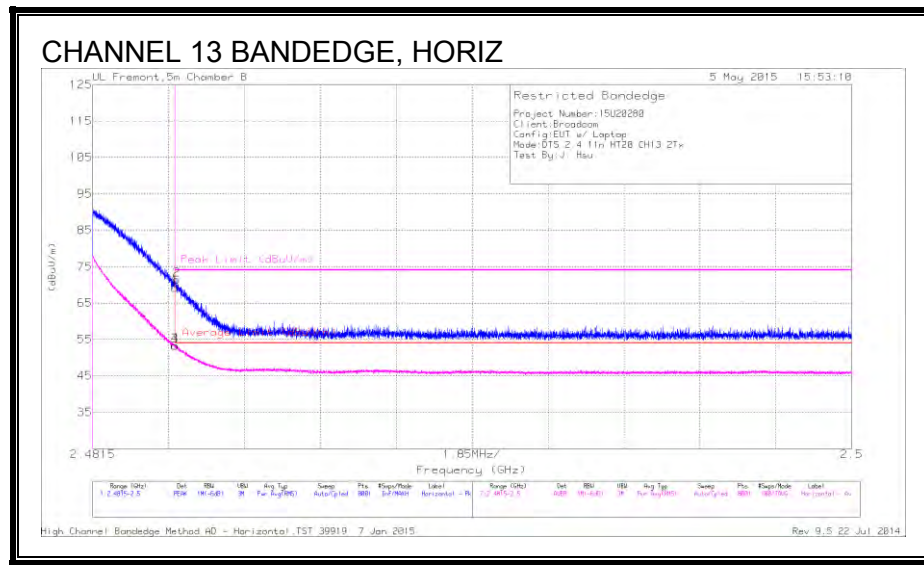
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	26.22	PK	32.5	5.7	64.42	-	-	74	-9.58	291	353	H
2	2.484	27.92	PK	32.5	5.7	66.12	-	-	74	-7.88	291	353	H
3	2.484	14.84	RMS	32.5	5.7	53.04	54	-96	-	-	291	353	H
4	2.484	15.52	RMS	32.5	5.7	53.72	54	-28	-	-	291	353	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 13)



Trace Markers

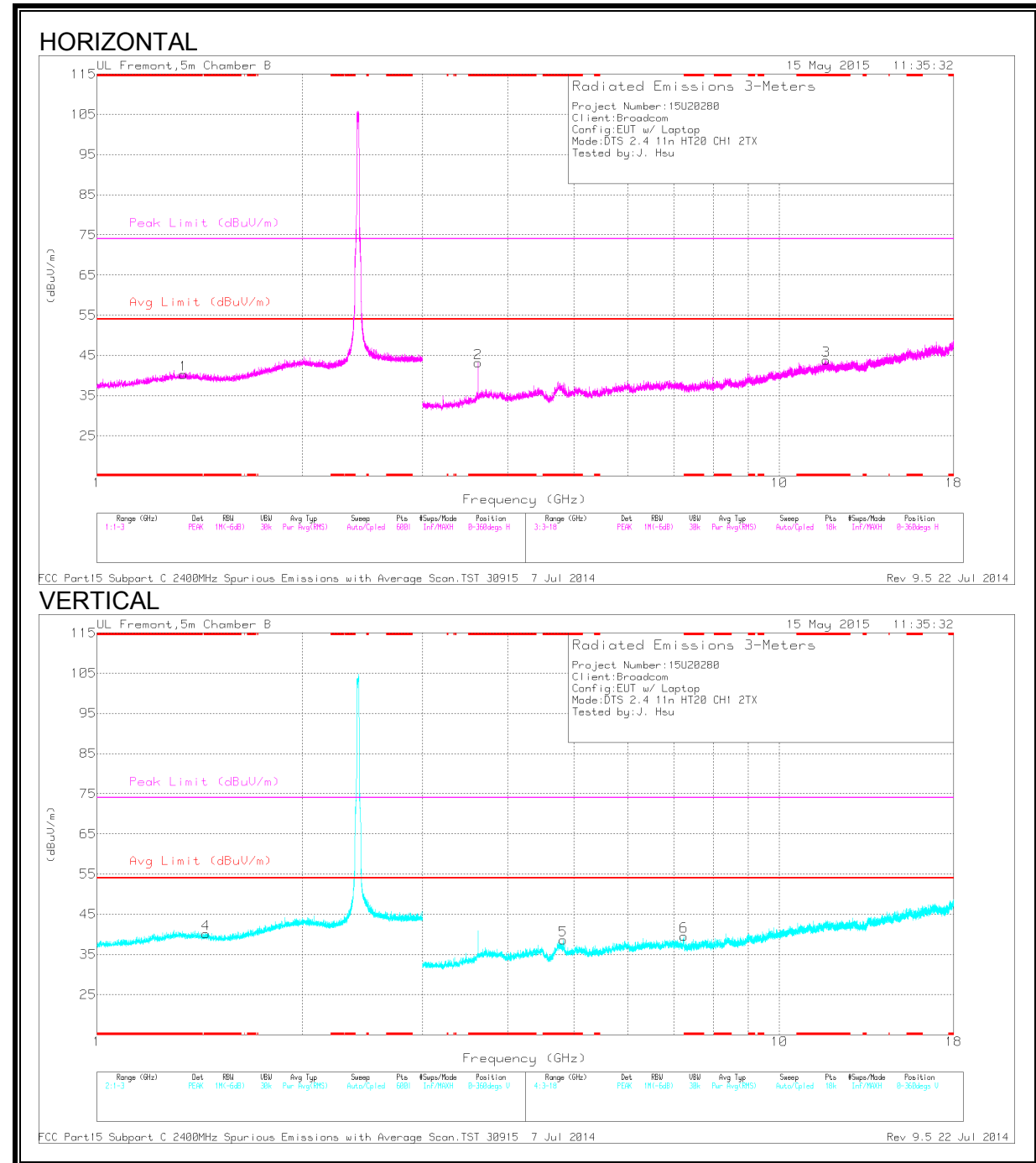
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	31.03	PK	32.5	5.7	69.23	-	-	74	-4.77	292	235	H
2	2.484	33.18	PK	32.5	5.7	71.38	-	-	74	-2.62	292	235	H
3	2.484	15.09	RMS	32.5	5.7	53.29	54	-71	-	-	292	235	H
4	2.484	15.13	RMS	32.5	5.7	53.33	54	-67	-	-	292	235	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.337	43.03	PK2	29.4	-24.1	48.33	-	-	74	-25.67	7	114	H
	* 1.337	31.78	MAv1	29.4	-24.2	36.98	54	-17.02	-	-	7	114	H
4	* 1.443	42.68	PK2	29	-24	47.68	-	-	74	-26.32	10	123	V
	* 1.443	31.49	MAv1	29	-24	36.49	54	-17.51	-	-	10	123	V
2	* 3.618	45.93	PK2	33.8	-30.7	49.03	-	-	74	-24.97	275	238	H
	* 3.618	41.63	MAv1	33.8	-30.7	44.73	54	-9.27	-	-	275	238	H
3	* 11.707	33.66	PK2	38.5	-21.7	50.46	-	-	74	-23.54	273	250	H
	* 11.71	23.26	MAv1	38.5	-21.8	39.96	54	-14.04	-	-	273	250	H
5	* 4.821	39.51	PK2	34.3	-29.7	44.11	-	-	74	-29.89	266	241	V
	* 4.823	28.94	MAv1	34.3	-29.7	33.54	54	-20.46	-	-	266	241	V
6	7.241	38.4	PK2	35.3	-27.8	45.9	-	-	-	-	268	271	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

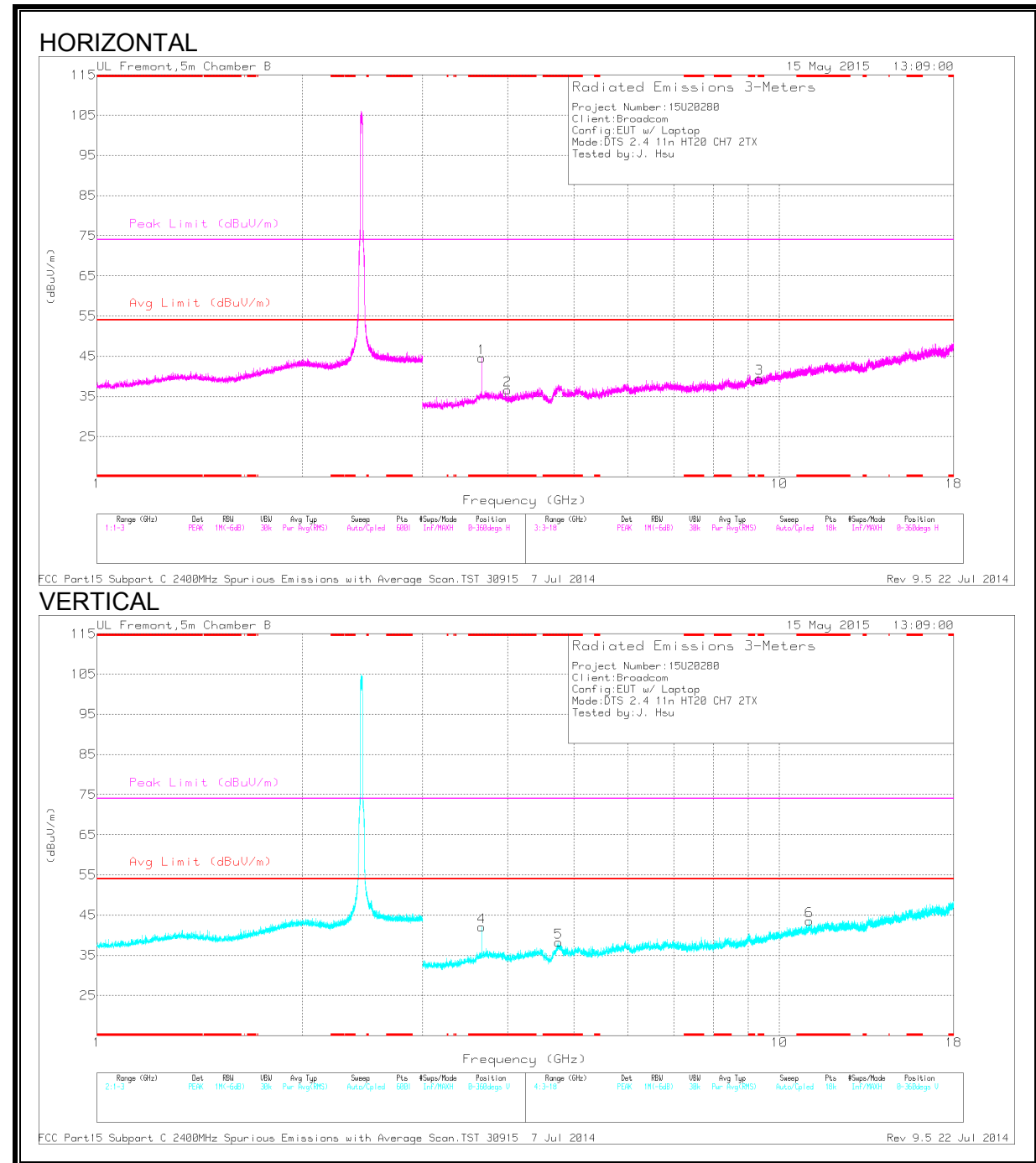
-Compliance for emissions in non-restricted bands shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.663	46.18	PK2	33.7	-30.8	49.08	-	-	74	-24.92	272	267	H
	* 3.663	41.73	MAv1	33.7	-30.8	44.63	54	-9.37	-	-	272	267	H
2	* 3.995	39.6	PK2	33.3	-30.9	42	-	-	74	-32	274	259	H
	* 3.998	29.01	MAv1	33.3	-30.9	31.41	54	-22.59	-	-	274	259	H
3	* 9.35	35.97	PK2	36.3	-24.7	47.57	-	-	74	-26.43	268	243	H
	* 9.35	24.77	MAv1	36.3	-24.7	36.37	54	-17.63	-	-	268	243	H
4	* 3.663	45.25	PK2	33.7	-30.8	48.15	-	-	74	-25.85	54	306	V
	* 3.663	40.4	MAv1	33.7	-30.8	43.3	54	-10.7	-	-	54	306	V
5	* 4.745	39.32	PK2	34.3	-29	44.62	-	-	74	-29.38	68	314	V
	* 4.745	28.34	MAv1	34.3	-29	33.64	54	-20.36	-	-	68	314	V
6	* 11.059	34.92	PK2	37.8	-21.8	50.92	-	-	74	-23.08	102	290	V
	* 11.06	23.69	MAv1	37.8	-21.8	39.69	54	-14.31	-	-	102	290	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

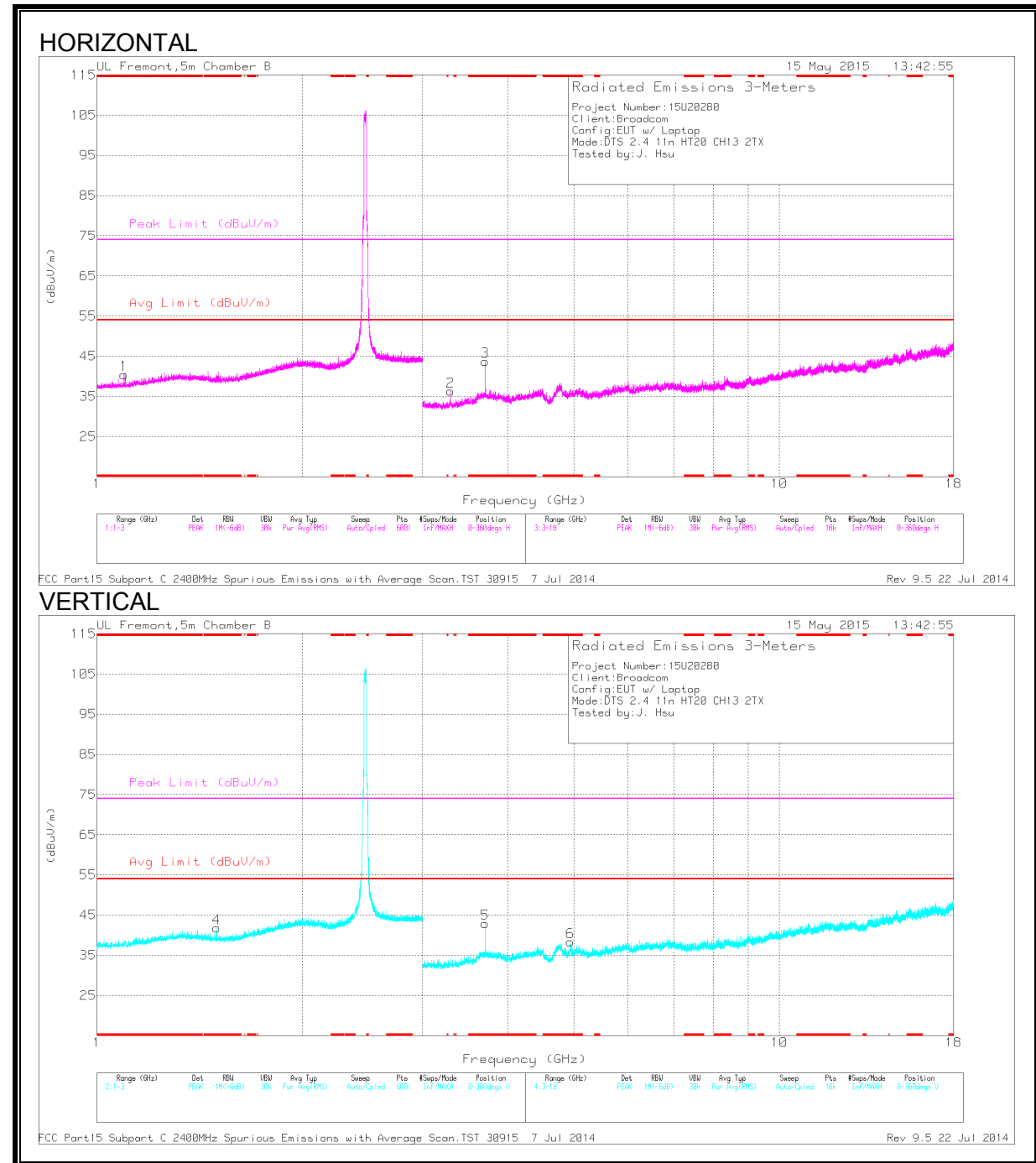
-Compliance for emissions in non-restricted bands shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.096	45.55	PK2	27.6	-24.4	48.75	-	-	74	-25.25	16	120	H
	* 1.095	32.08	MAv1	27.6	-24.4	35.28	54	-18.72	-	-	16	120	H
4	* 1.498	45.55	PK2	28.6	-23.9	50.25	-	-	74	-23.75	69	324	V
	* 1.499	31.25	MAv1	28.6	-23.9	35.95	54	-18.05	-	-	69	324	V
3	* 3.708	46.03	PK2	33.6	-31.2	48.43	-	-	74	-25.57	297	230	H
	* 3.708	40.3	MAv1	33.6	-31.2	42.7	54	-11.3	-	-	297	230	H
5	* 3.708	46.05	PK2	33.6	-31.2	48.45	-	-	74	-25.55	54	296	V
	* 3.708	40.87	MAv1	33.6	-31.2	43.27	54	-10.73	-	-	54	296	V
6	* 4.943	45.86	PK2	34.1	-30.4	49.56	-	-	74	-24.44	220	273	V
	* 4.943	33.03	MAv1	34.1	-30.4	36.73	54	-17.27	-	-	220	273	V
2	3.296	41.89	PK2	32.8	-30.8	43.89	-	-	-	-	274	200	H
	3.296	32.67	MAv1	32.8	-30.8	34.67	-	-	-	-	274	200	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

-Compliance for emissions in non-restricted bands shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.6. TX ABOVE 1 GHz 802.11ac HT20 TxBF 2Tx MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 1)



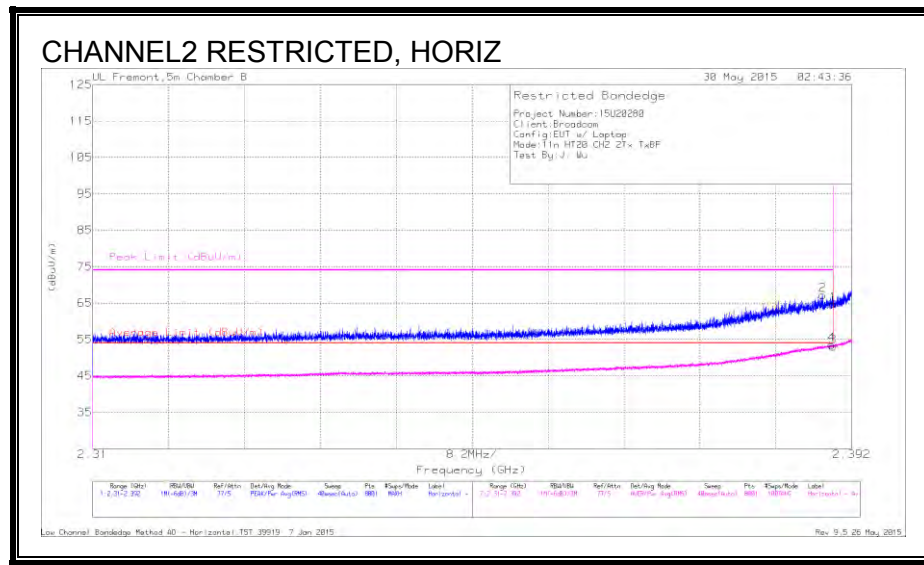
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	30.86	Pk	32	5.5	0	68.36	-	-	74	-5.64	285	311	H
1	2.39	29.62	Pk	32	5.5	0	67.12	-	-	74	-6.88	285	311	H
3	2.39	15.4	RMS	32	5.5	.38	53.28	54	-.72	-	-	285	311	H
4	2.39	15.94	RMS	32	5.5	.38	53.82	54	-.18	-	-	285	311	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 2)



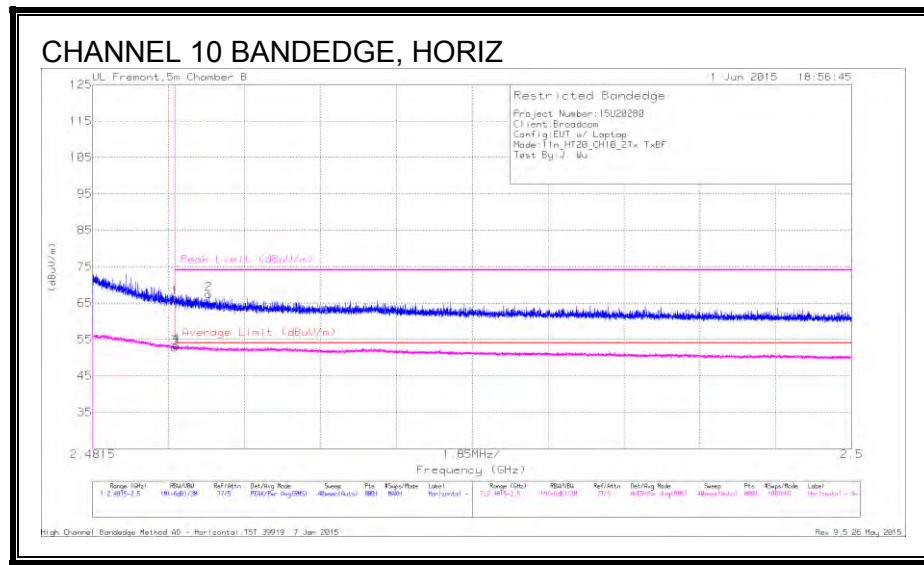
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	29.65	Pk	32	5.5	0	67.15	-	-	74	-6.85	83	377	H
1	2.39	27.14	Pk	32	5.5	0	64.64	-	-	74	-9.36	83	377	H
3	2.39	15.19	RMS	32	5.5	.38	53.07	54	-.93	-	-	83	377	H
4	2.39	15.65	RMS	32	5.5	.38	53.53	54	-.47	-	-	83	377	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)



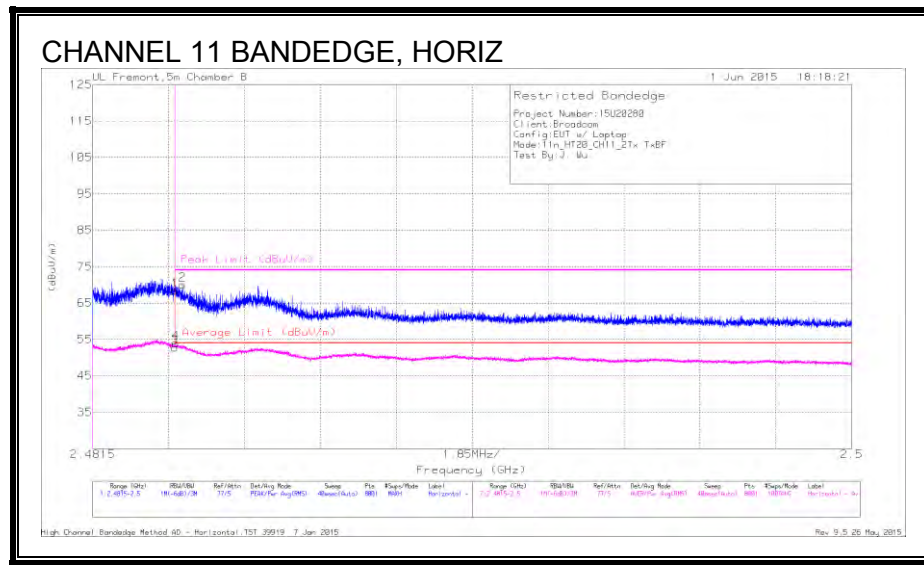
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	28.21	Pk	32.5	5.7	0	66.41	-	-	74	-7.59	71	348	H
2	2.484	29.28	Pk	32.5	5.7	0	67.48	-	-	74	-6.52	71	348	H
3	2.484	14.16	RMS	32.5	5.7	.38	52.74	54	-1.26	-	-	71	348	H
4	2.484	14.66	RMS	32.5	5.7	.38	53.24	54	-.76	-	-	71	348	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



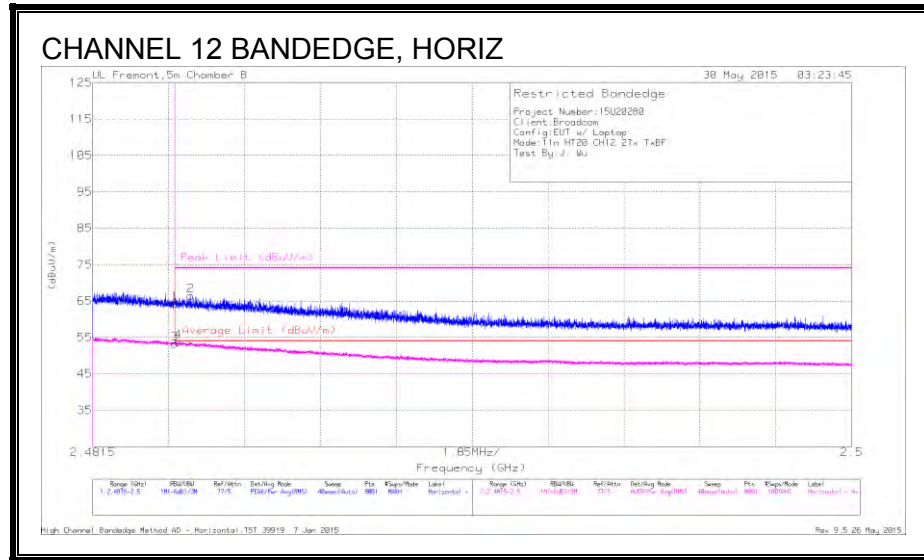
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	30.22	Pk	32.5	5.7	0	68.42	-	-	74	-5.58	69	344	H
2	2.484	31.87	Pk	32.5	5.7	0	70.07	-	-	74	-3.93	69	344	H
3	2.484	14.23	RMS	32.5	5.7	.38	52.81	54	-1.19	-	-	69	344	H
4	2.484	15.4	RMS	32.5	5.7	.38	53.98	54	-.02	-	-	69	344	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 12)



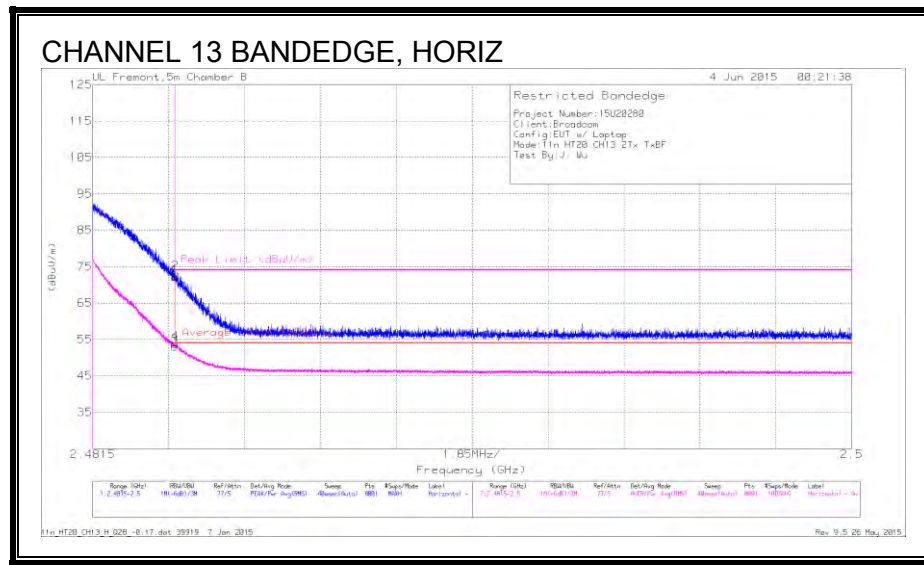
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	26.09	Pk	32.5	5.7	0	64.29	-	-	74	-9.71	299	281	H
2	2.484	28.21	Pk	32.5	5.7	0	66.41	-	-	74	-7.59	299	281	H
3	2.484	14.64	RMS	32.5	5.7	.38	53.22	54	-.78	-	-	299	281	H
4	2.484	15.24	RMS	32.5	5.7	.38	53.82	54	-.18	-	-	299	281	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 13)



Trace Markers

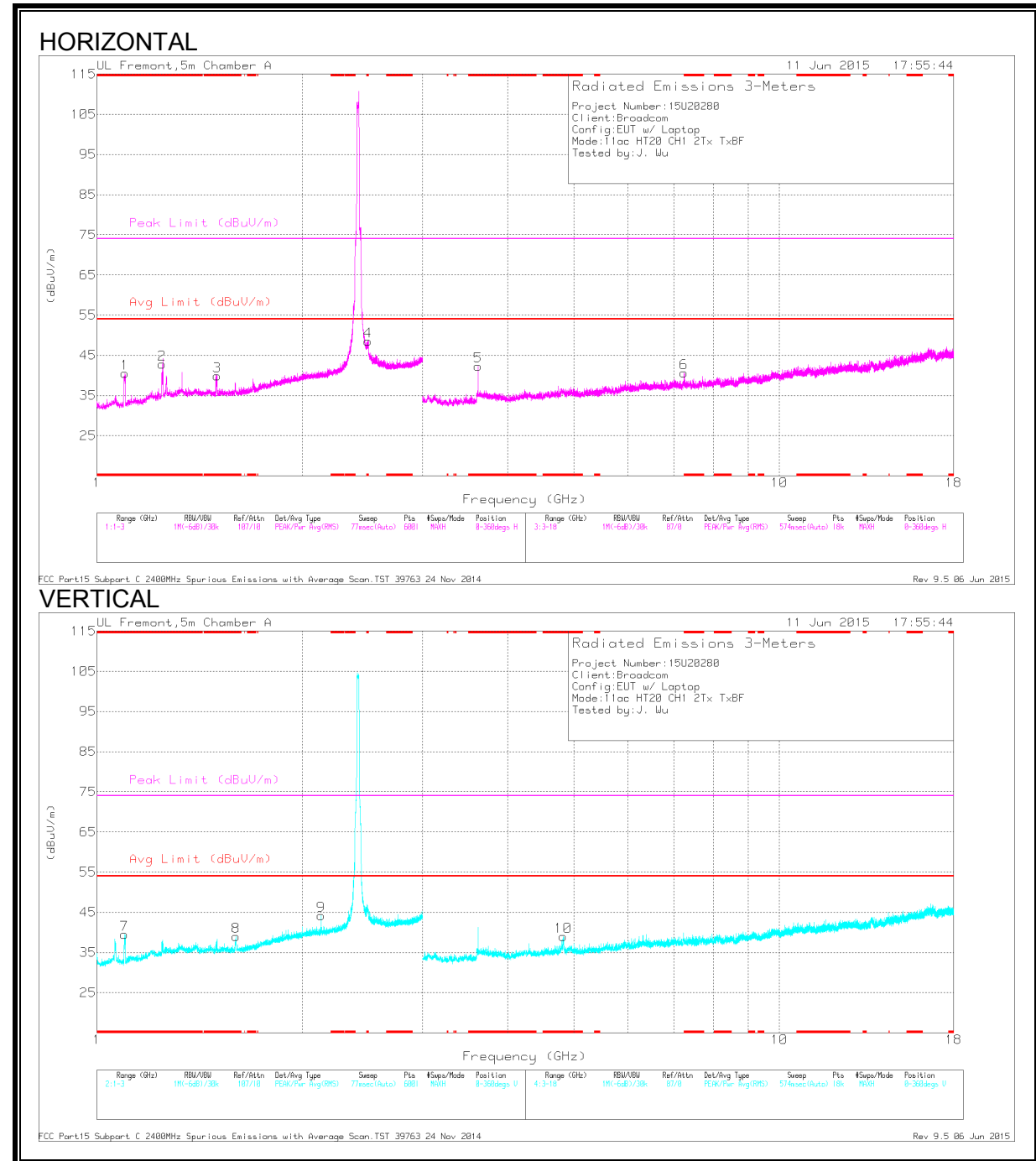
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	33.91	Pk	32.5	5.7	0	72.11	-	-	74	-1.89	207	132	H
2	2.484	35.09	Pk	32.5	5.7	0	73.29	-	-	74	-1.71	207	132	H
3	2.484	14.43	RMS	32.5	5.7	.38	53.01	54	-99	-	-	207	132	H
4	2.484	15.25	RMS	32.5	5.7	.38	53.83	54	-17	-	-	207	132	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

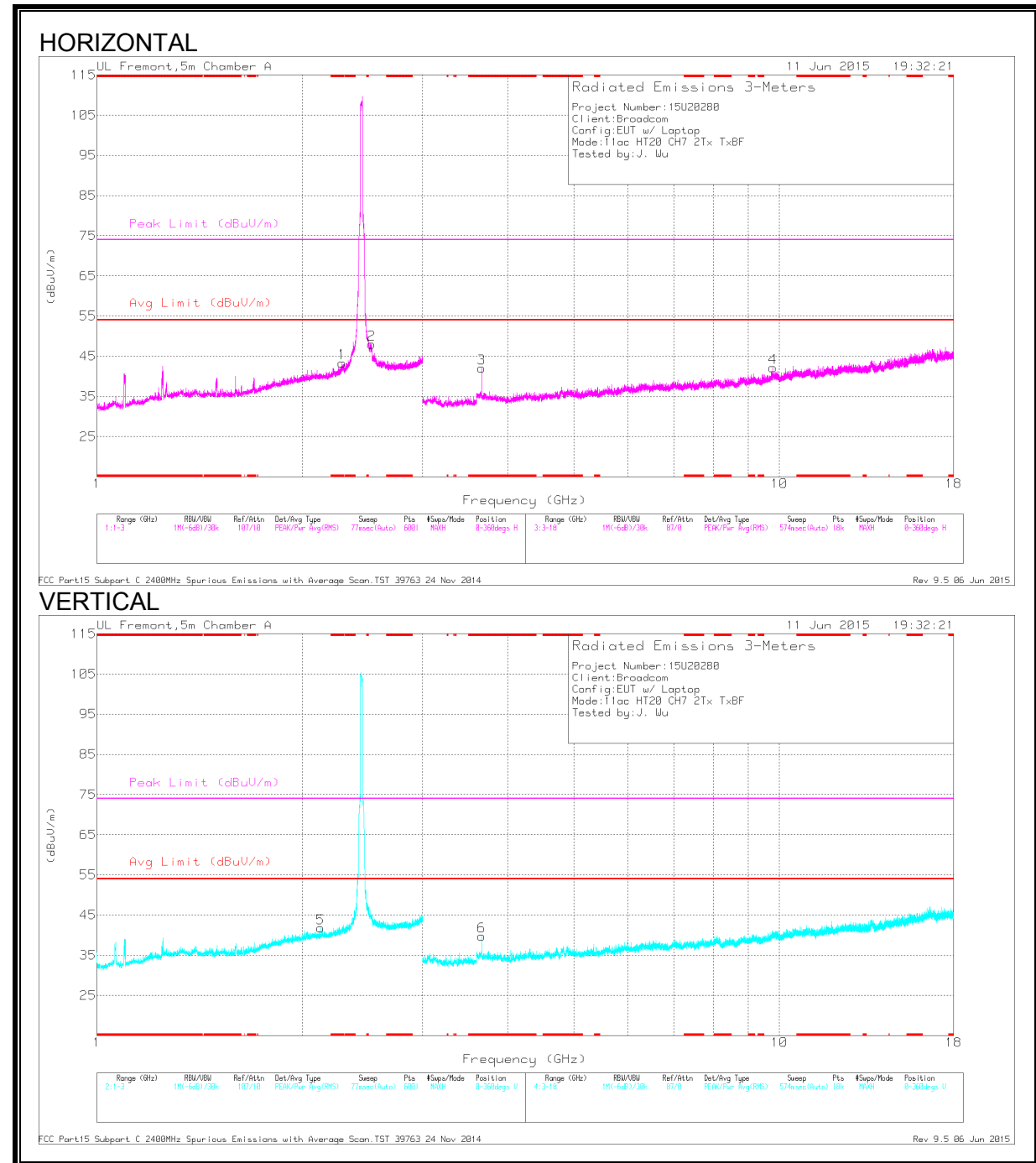
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.1	42.98	PK2	27.2	-22.1	0	48.08	-	-	74	-25.92	210	116	H
	* 1.098	27.03	MAv1	27.2	-22.1	.38	32.51	54	-21.49	-	-	210	116	H
2	* 1.248	43.28	PK2	28.4	-21.5	0	50.18	-	-	74	-23.82	290	105	H
	* 1.248	25.71	MAv1	28.4	-21.6	.38	32.89	54	-21.11	-	-	290	105	H
3	* 1.498	42.03	PK2	28.1	-20.9	0	49.23	-	-	74	-24.77	310	154	H
	* 1.498	25.73	MAv1	28.1	-20.9	.38	33.31	54	-20.69	-	-	310	154	H
4	* 2.497	46.75	PK2	32.1	-21.1	0	57.75	-	-	74	-16.25	0	102	H
	* 2.495	34.53	MAv1	32.1	-21.1	.38	45.91	54	-8.09	-	-	0	102	H
7	* 1.097	42.44	PK2	27.2	-22.1	0	47.54	-	-	74	-26.46	195	364	V
	* 1.098	26.93	MAv1	27.2	-22.1	.38	32.41	54	-21.59	-	-	195	364	V
8	* 1.607	37.91	PK2	28	-20.9	0	45.01	-	-	74	-28.99	188	290	V
	* 1.608	27.07	MAv1	28	-20.9	.38	34.55	54	-19.45	-	-	188	290	V
5	* 3.618	47.44	PK2	33.1	-32.6	0	47.94	-	-	74	-26.06	356	326	H
	* 3.618	41.37	MAv1	33.1	-32.6	.38	42.25	54	-11.75	-	-	356	326	H
6	* 7.259	43.19	PK2	35.5	-26.8	0	51.89	-	-	74	-22.11	6	132	H
	* 7.254	30.61	MAv1	35.5	-26.8	.38	39.69	54	-14.31	-	-	6	132	H
10	* 4.818	44.92	PK2	33.9	-30.9	0	47.92	-	-	74	-26.08	17	310	V
	* 4.817	33.33	MAv1	33.9	-31	.38	36.61	54	-17.39	-	-	17	310	V
9	2.13	33.86	Pk	31.4	-21.1	0	44.16	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.286	41.82	PK2	31.8	-21.2	0	52.42	-	-	74	-21.58	204	102	H
	* 2.286	29.06	MAv1	31.8	-21.2	.38	40.04	54	-13.96	-	-	204	102	H
3	* 3.663	46.2	PK2	33.2	-32.3	0	47.1	-	-	74	-26.9	359	278	H
	* 3.663	39.94	MAv1	33.2	-32.3	.38	41.22	54	-12.78	-	-	359	278	H
6	* 3.663	45.63	PK2	33.2	-32.3	0	46.53	-	-	74	-27.47	105	192	V
	* 3.663	38.19	MAv1	33.2	-32.3	.38	39.47	54	-14.53	-	-	105	192	V
5	2.127	31.53	Pk	31.4	-21.1	0	41.83	-	-	-	-	0-360	100	V
2	2.527	37.17	Pk	32.1	-21.2	0	48.07	-	-	-	-	0-360	201	H
4	9.782	29.35	Pk	36.9	-24.1	0	42.15	-	-	-	-	0-360	100	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

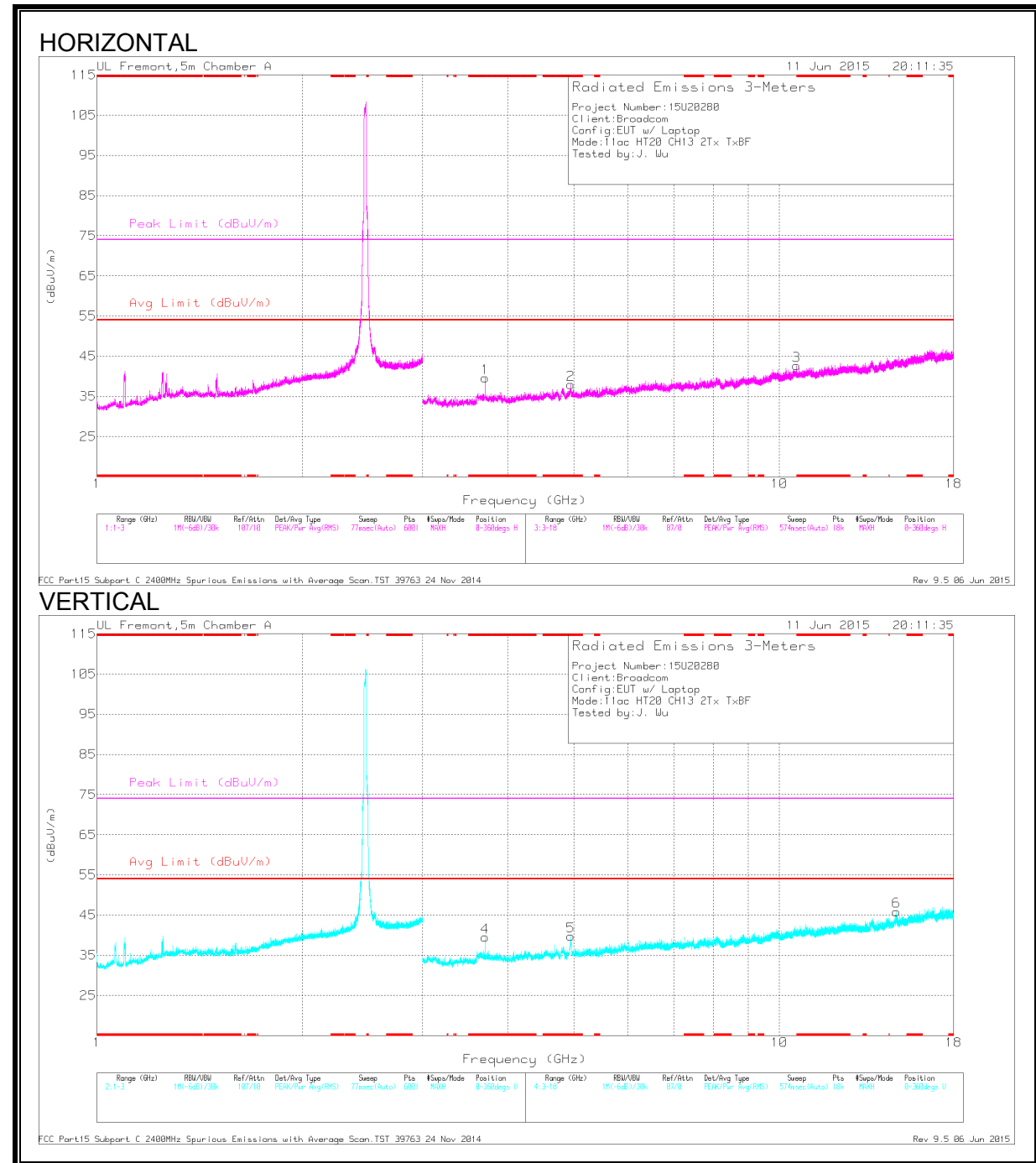
-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.708	45.97	PK2	33.2	-32.5	0	46.67	-	-	74	-27.33	358	357	H
	* 3.708	38.57	MAv1	33.2	-32.5	.38	39.65	54	-14.35	-	-	358	357	H
2	* 4.945	40.3	PK2	33.9	-29.8	0	44.4	-	-	74	-29.6	35	400	H
	* 4.952	28.61	MAv1	33.9	-29.8	.38	33.09	54	-20.91	-	-	35	400	H
3	* 10.603	34.45	PK2	37.7	-23.1	0	49.05	-	-	74	-24.95	188	393	H
	* 10.6	22.94	MAv1	37.7	-23.1	.38	37.92	54	-16.08	-	-	188	393	H
4	* 3.708	45.85	PK2	33.2	-32.5	0	46.55	-	-	74	-27.45	53	179	V
	* 3.708	38.95	MAv1	33.2	-32.5	.38	40.03	54	-13.97	-	-	53	179	V
5	* 4.945	47.92	PK2	33.9	-29.8	0	52.02	-	-	74	-21.98	25	301	V
	* 4.945	33.36	MAv1	33.9	-29.8	.38	37.84	54	-16.16	-	-	25	301	V
6	14.845	29.42	Pk	39.6	-23.1	0	45.92	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

RESTRICTED BANDEDGE (CHANNEL 4)



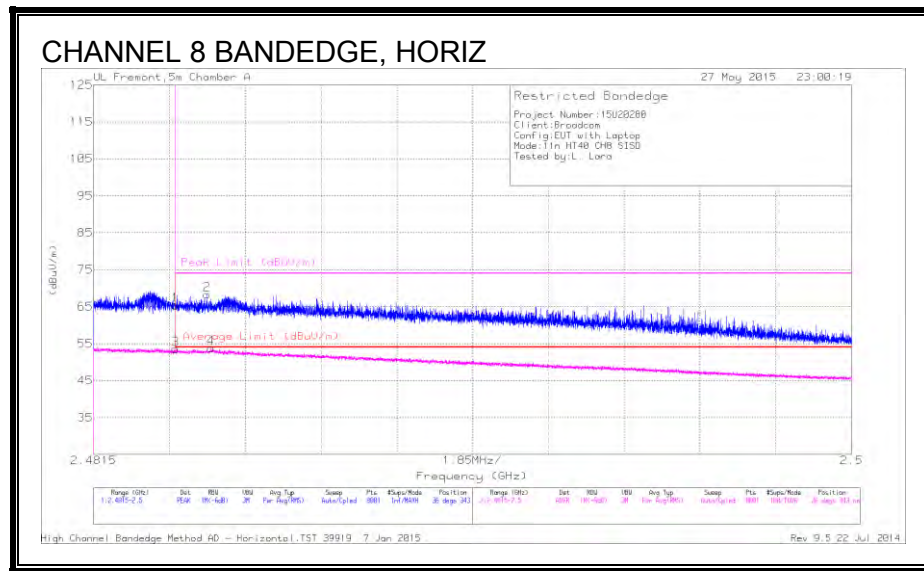
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	27.77	Pk	32	4.9	0	64.67	-	-	74	-9.33	178	374	H
2	* 2.39	29.36	Pk	32	4.9	0	66.26	-	-	74	-7.74	178	374	H
3	* 2.39	15.46	RMS	32	4.9	.11	52.47	54	-1.53	-	-	178	374	H
4	* 2.39	16.66	RMS	32	4.9	.11	53.67	54	-.33	-	-	178	374	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 8)



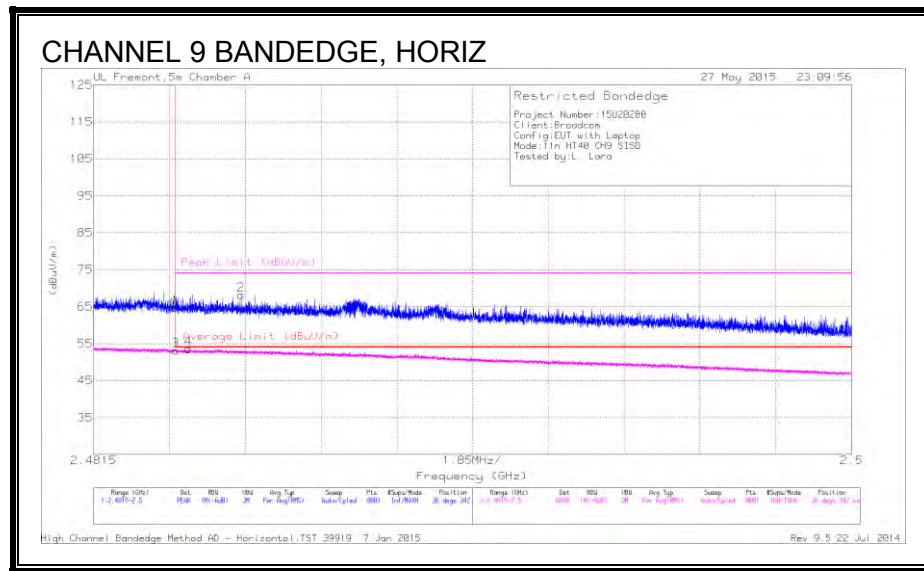
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	28.32	PK	32.1	5	0	65.42	-	-	74	-8.58	36	343	H
2	* 2.484	31.2	PK	32.1	5	0	68.3	-	-	74	-5.7	36	343	H
3	* 2.484	16.32	RMS	32.1	5	.11	53.53	54	-47	-	-	36	343	H
4	* 2.484	16.57	RMS	32.1	5	.11	53.78	54	-22	-	-	36	343	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 9)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	27.6	PK	32.1	5	0	64.7	-	-	74	-9.3	36	342	H
3	* 2.484	15.96	RMS	32.1	5	.11	53.17	54	-.83	-	-	36	342	H
4	* 2.484	16.36	RMS	32.1	5	.11	53.57	54	-.43	-	-	36	342	H
2	* 2.485	31.09	PK	32.1	5	0	68.19	-	-	74	-5.81	36	342	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

CHANNEL 10 BANDEDGE, HORIZ

UL Present, 5s Chamber A

27 May 2015 23:19:19

Restricted Bandedge

Project Number: 15020200

Client: Broadcom

Config: EUT with Laptop

Mode: 1in HT40 CHB SISO

Tested by: Lora

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

Frequency (GHz)

Range (GHz)	Set	RF	US	Avg Freq	Swamp	PL	Exp/Freq	Position
1.7 GHz to 2.5 GHz	1502	100 dBm	20	1.85 GHz	100	100	100	20 deg 10 in
2.4815 GHz to 2.5 GHz	1502	100 dBm	20	1.85 GHz	100	100	100	20 deg 10 in

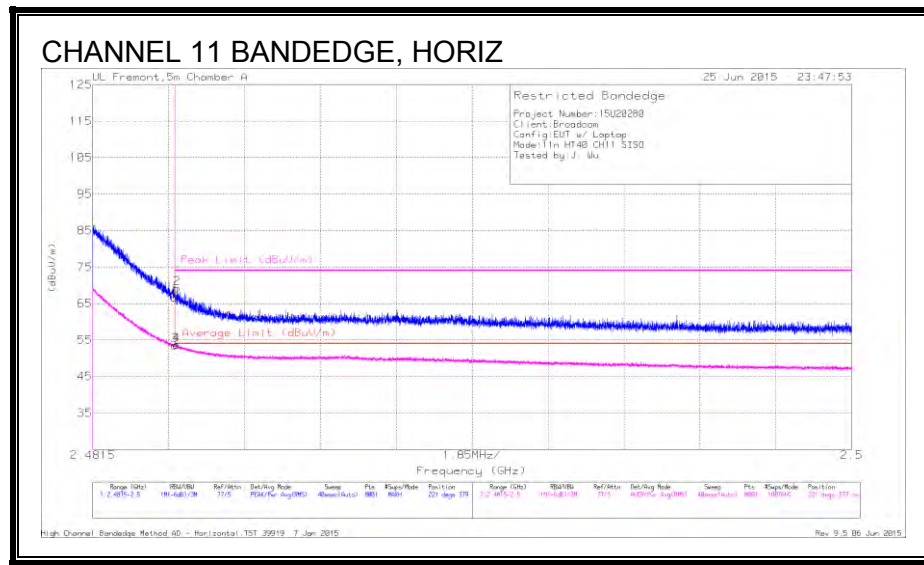
High Channel Bandedge Method 40 - Horizontal, TST 39919 7 Jan 2015

Rev 9.5 22 Jul 2014

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	29.65	PK	32.1	5	0	66.75	-	-	74	-7.25	32	341	H
2	* 2.484	32.04	PK	32.1	5	0	69.14	-	-	74	-4.86	32	341	H
3	* 2.484	16	RMS	32.1	5	.11	53.21	54	-.79	-	-	32	341	H
4	* 2.484	16.74	RMS	32.1	5	.11	53.95	54	-.05	-	-	32	341	H

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



Trace Markers

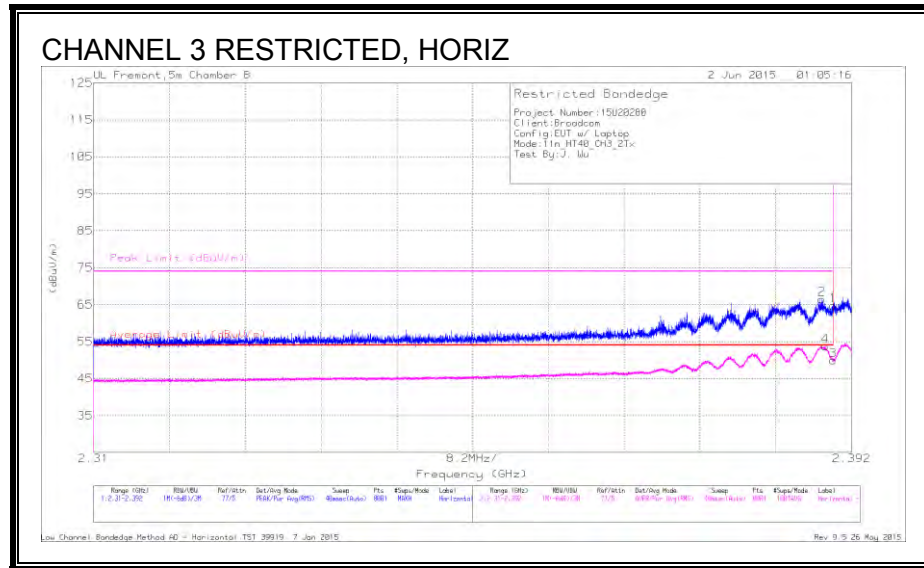
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	29.45	Pk	32.1	5	0	66.55	-	-	74	-7.45	221	379	H
2	* 2.484	32.1	Pk	32.1	5	0	69.2	-	-	74	-4.8	221	379	H
3	* 2.484	16.32	RMS	32.1	5	.11	53.53	54	-47	-	-	221	379	H
4	* 2.484	16.41	RMS	32.1	5	.11	53.62	54	-38	-	-	221	379	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

9.8. TX ABOVE 1 GHz 802.11n HT40 CDD 2Tx MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 3)



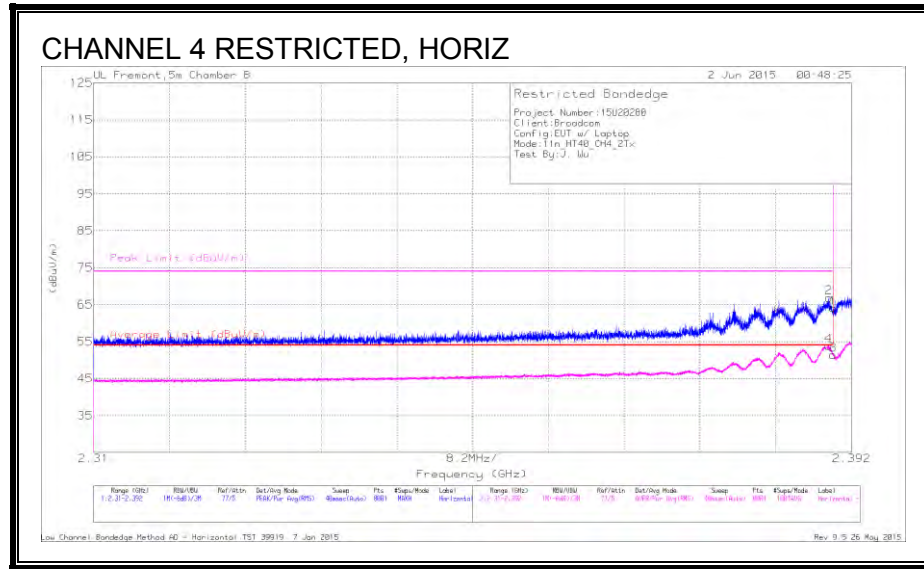
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	28.98	Pk	32	5.5	0	66.48	-	-	74	-7.52	302	306	H
4	2.389	16.17	RMS	32	5.5	.11	53.78	54	-22	-	-	302	306	H
1	2.39	27.28	Pk	32	5.5	0	64.78	-	-	74	-9.22	302	306	H
3	2.39	12.35	RMS	32	5.5	.11	49.96	54	-4.04	-	-	302	306	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 4)



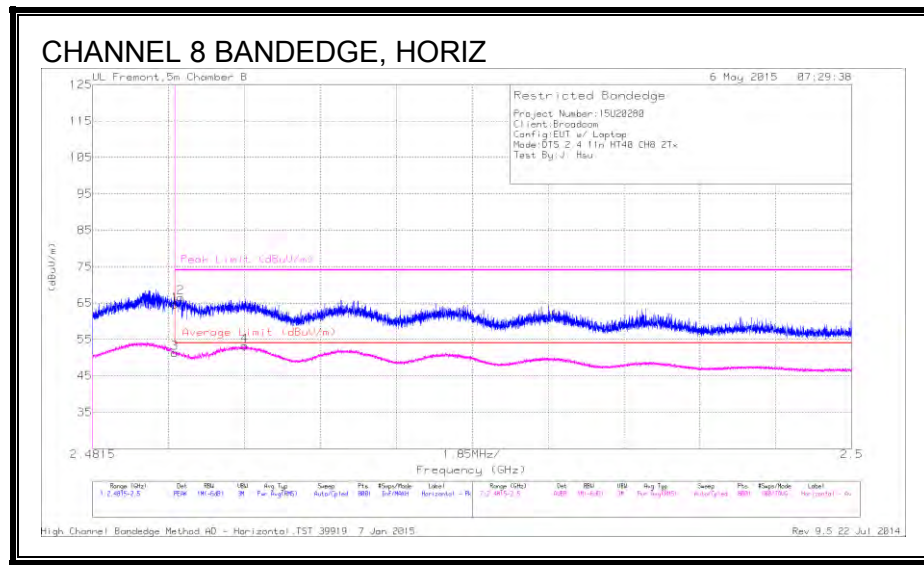
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	26.63	Pk	32	5.5	0	64.13	-	-	74	-9.87	317	294	H
2	2.39	29.4	Pk	32	5.5	0	66.9	-	-	74	-7.1	317	294	H
3	2.39	13.81	RMS	32	5.5	.11	51.42	54	-2.58	-	-	317	294	H
4	2.39	16.27	RMS	32	5.5	.11	53.88	54	-12	-	-	317	294	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 8)



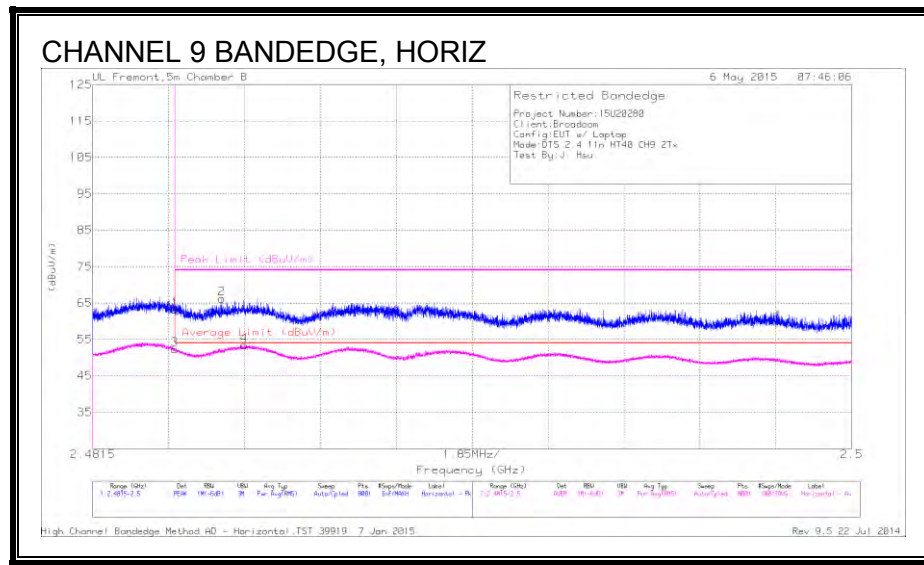
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	26.36	PK	32.5	5.7	0	64.56	-	-	74	-9.44	95	257	H
2	2.484	28.38	PK	32.5	5.7	0	66.58	-	-	74	-7.42	95	257	H
3	2.484	13.01	RMS	32.5	5.7	.11	51.32	54	-2.68	-	-	95	257	H
4	2.485	14.98	RMS	32.5	5.7	.11	53.29	54	-7.1	-	-	95	257	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 9)



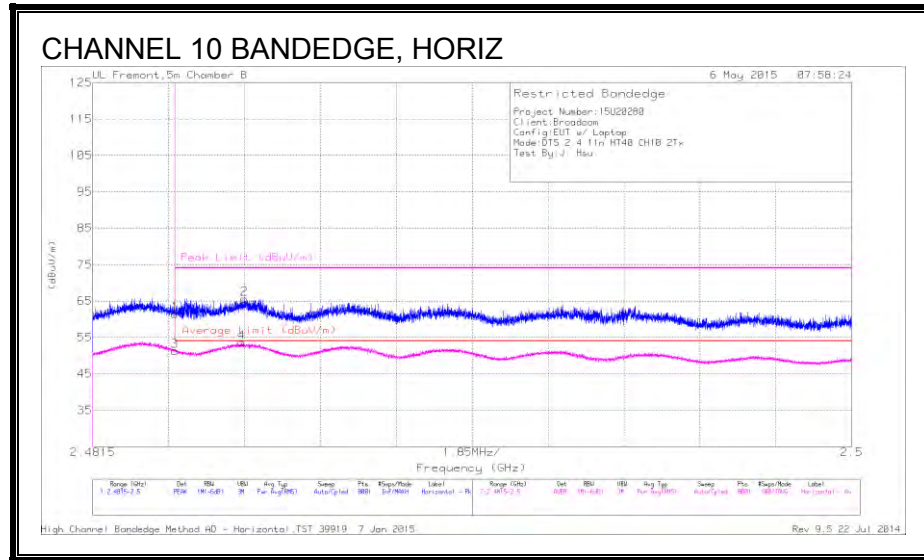
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	24.97	PK	32.5	5.7	0	63.17	-	-	74	-10.83	277	353	H
3	2.484	13.93	RMS	32.5	5.7	.11	52.24	54	-1.76	-	-	277	353	H
2	2.485	27.98	PK	32.5	5.7	0	66.18	-	-	74	-7.82	277	353	H
4	2.485	15.08	RMS	32.5	5.7	.11	53.39	54	-61	-	-	277	353	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)



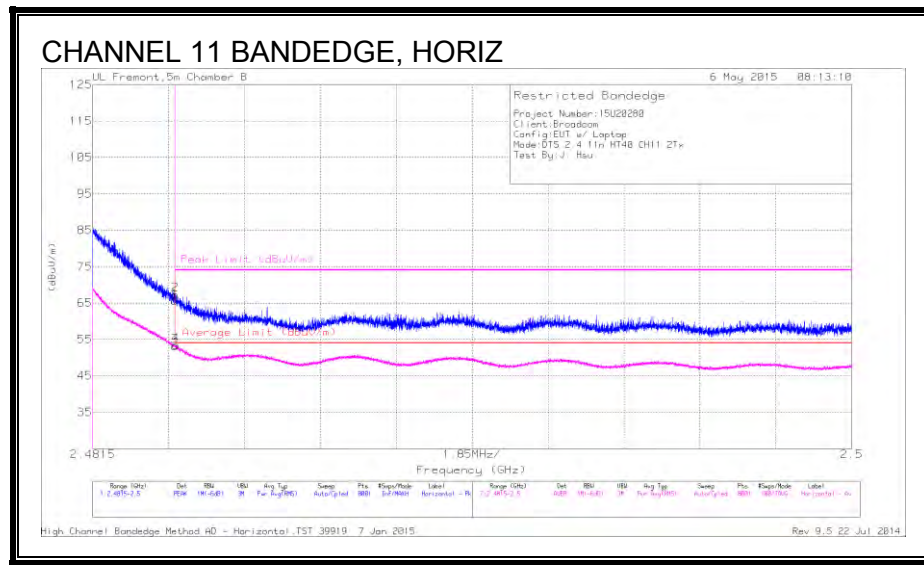
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	23.24	PK	32.5	5.7	0	61.44	-	-	74	-12.56	89	297	H
3	2.484	12.92	RMS	32.5	5.7	.11	51.23	54	-2.77	-	-	89	297	H
2	2.485	27.42	PK	32.5	5.7	0	65.62	-	-	74	-8.38	89	297	H
4	2.485	15.28	RMS	32.5	5.7	.11	53.59	54	-.41	-	-	89	297	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



Trace Markers

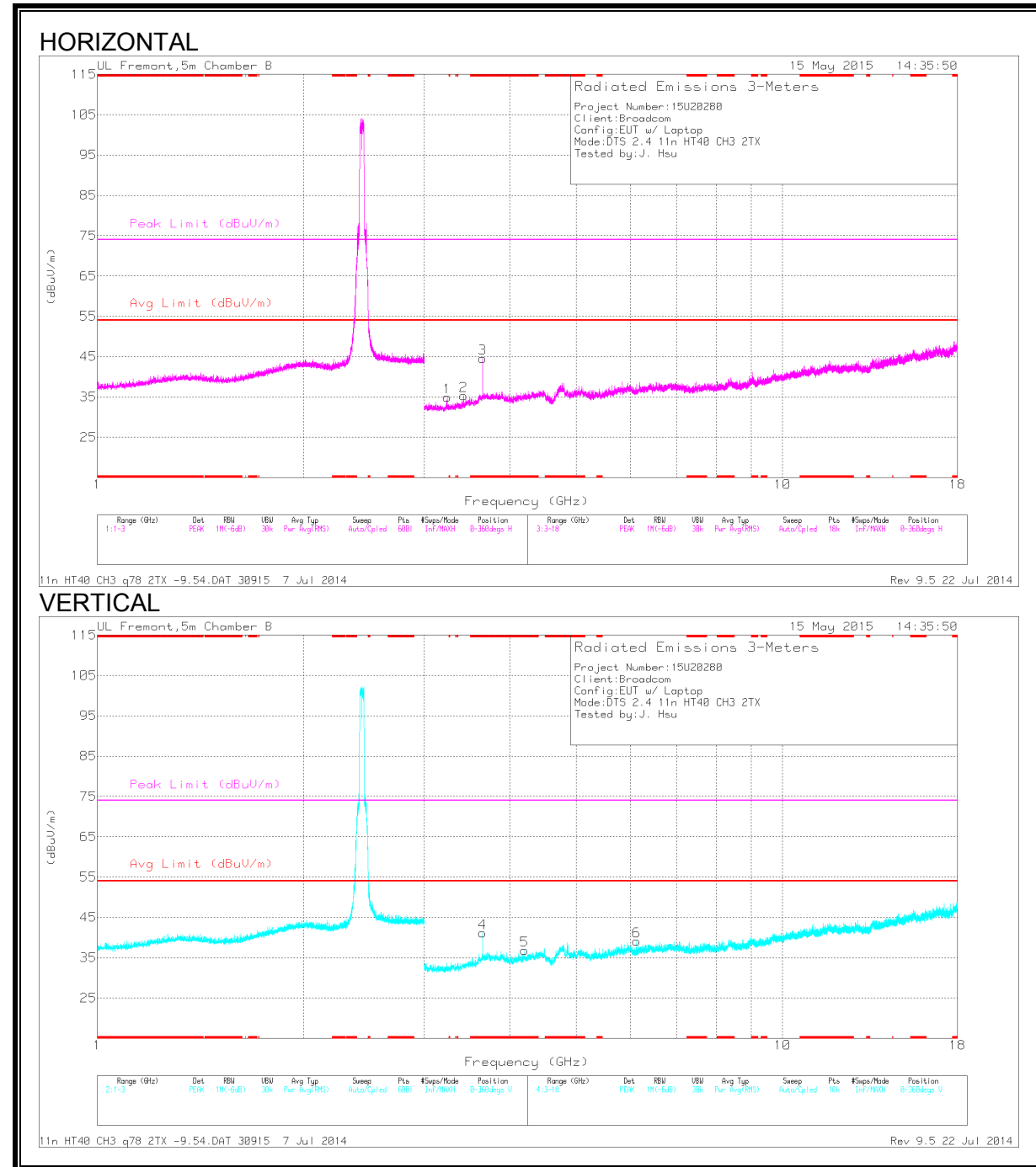
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	27.37	PK	32.5	5.7	0	65.57	-	-	74	-8.43	83	305	H
2	2.484	29.08	PK	32.5	5.7	0	67.28	-	-	74	-6.72	83	305	H
3	2.484	14.85	RMS	32.5	5.7	.11	53.16	54	-.84	-	-	83	305	H
4	2.484	15.03	RMS	32.5	5.7	.11	53.34	54	-.66	-	-	83	305	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.648	45.93	PK2	33.7	-30.7	0	48.93	-	-	74	-25.07	273	234	H
	* 3.648	41.46	MAv1	33.7	-30.7	.11	44.57	54	-9.43	-	-	273	234	H
4	* 3.648	43.99	PK2	33.7	-30.7	0	46.99	-	-	74	-27.01	99	234	V
	* 3.648	37.67	MAv1	33.7	-30.7	.11	40.78	54	13.22	-	-	99	234	V
5	* 4.203	39.34	PK2	33.3	-29.9	0	42.74	-	-	74	-31.26	145	217	V
	* 4.202	28.59	MAv1	33.3	-29.9	.11	32.1	54	-21.9	-	-	145	217	V
1	3.242	40.69	PK2	32.5	-30.9	0	42.29	-	-	-	-	353	109	H
	3.242	28.79	MAv1	32.5	-30.9	.11	30.5	-	-	-	-	353	109	H
2	3.42	39.76	PK2	33.1	-30.8	0	42.06	-	-	-	-	348	125	H
	3.422	28.42	MAv1	33.1	-30.8	.11	30.83	-	-	-	-	348	125	H
6	6.119	39.27	PK2	35.5	-29.5	0	45.27	-	-	-	-	113	205	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

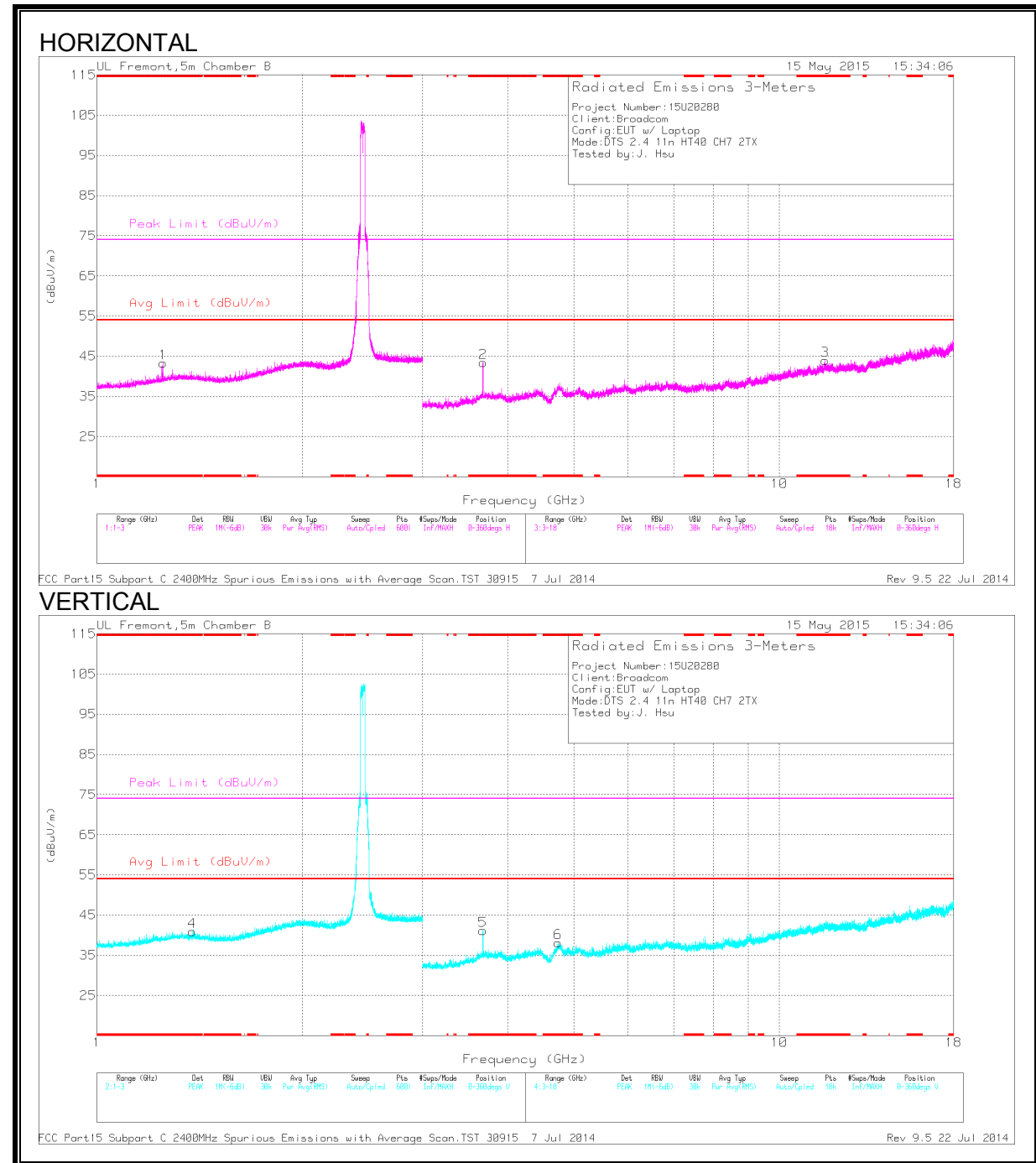
-Compliance for emissions in non-restricted bands shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	46.27	PK2	29	-24.2	0	51.07	-	-	74	-22.93	3	113	H
	* 1.248	31.87	MAv1	28.9	-24.2	.11	36.68	54	17.32	-	-	3	113	H
4	* 1.381	42.93	PK2	29.4	-24.1	0	48.23	-	-	74	-25.77	6	124	V
	* 1.38	31.61	MAv1	29.4	-24.1	.11	37.02	54	16.98	-	-	6	124	V
2	* 3.678	44.79	PK2	33.7	-30.9	0	47.59	-	-	74	-26.41	38	201	H
	* 3.678	38.97	MAv1	33.7	-30.9	.11	41.88	54	12.12	-	-	38	201	H
3	* 11.669	33.84	PK2	38.5	-21.7	0	50.64	-	-	74	-23.36	41	229	H
	* 11.668	23.41	MAv1	38.5	-21.7	.11	40.32	54	13.68	-	-	41	229	H
5	* 3.678	45.23	PK2	33.7	-30.9	0	48.03	-	-	74	-25.97	55	303	V
	* 3.678	40.18	MAv1	33.7	-30.9	.11	43.09	54	10.91	-	-	55	303	V
6	* 4.741	39.17	PK2	34.3	-29.1	0	44.37	-	-	74	-29.63	64	285	V
	* 4.737	28.29	MAv1	34.3	-29.1	.11	33.6	54	-20.4	-	-	64	285	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

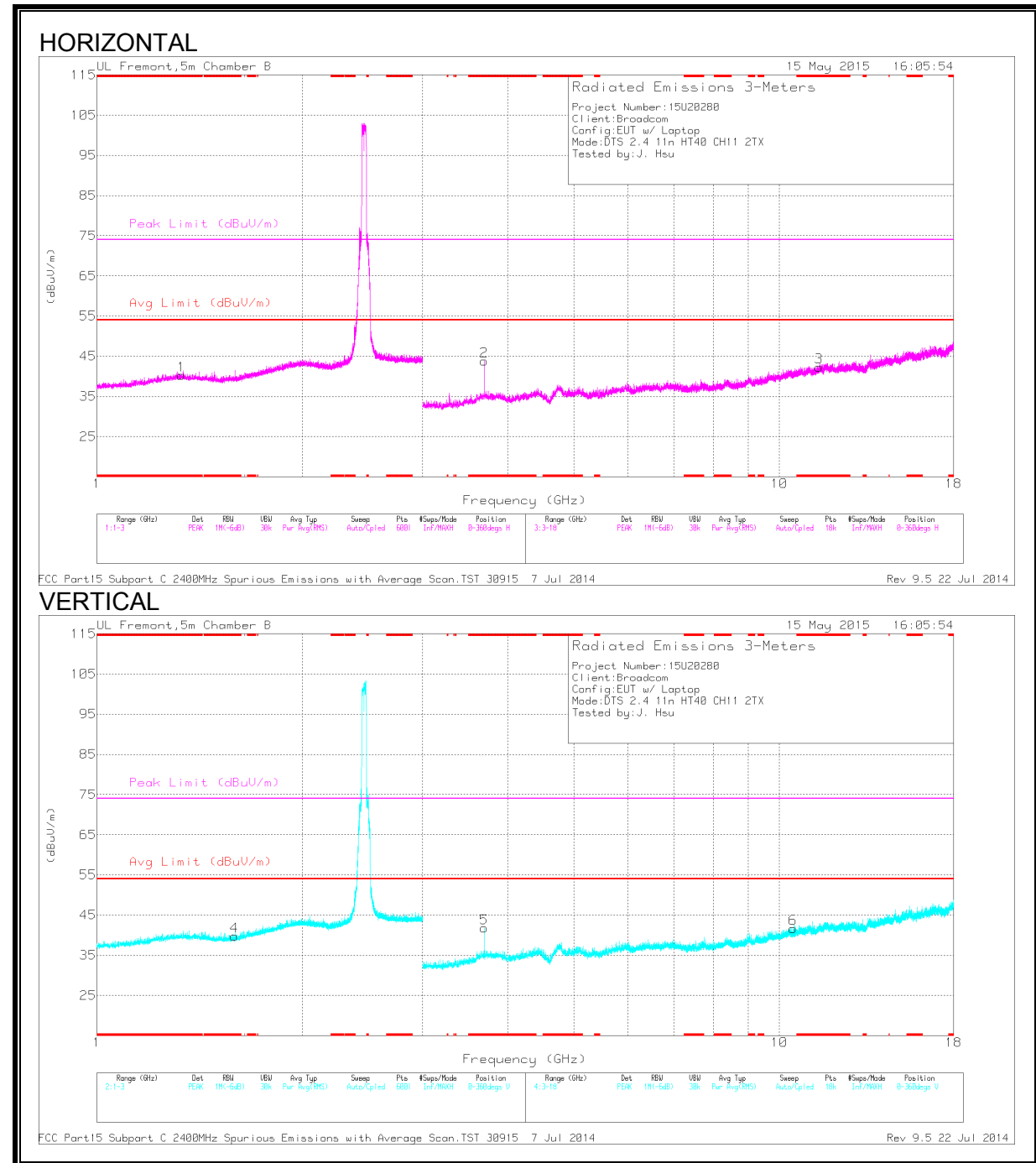
-Compliance for emissions in non-restricted bands shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.331	43.41	PK2	29.4	-24.2	0	48.61	-	-	74	-25.39	41	107	H
	* 1.33	31.81	MAv1	29.4	-24.2	.11	37.12	54	-16.88	-	-	41	107	H
4	* 1.59	42.36	PK2	28.8	-23.7	0	47.46	-	-	74	-26.54	53	126	V
	* 1.59	31.47	MAv1	28.8	-23.7	.11	36.68	54	-17.32	-	-	53	126	V
2	* 3.693	44.61	PK2	33.6	-31.1	0	47.11	-	-	74	-26.89	301	198	H
	* 3.693	39.54	MAv1	33.6	-31.1	.11	42.15	54	-11.85	-	-	301	198	H
3	* 11.436	34.06	PK2	38.1	-22.1	0	50.06	-	-	74	-23.94	294	188	H
	* 11.438	23.22	MAv1	38.1	-22	.11	39.43	54	-14.57	-	-	294	188	H
5	* 3.693	46.1	PK2	33.6	-31.1	0	48.6	-	-	74	-25.4	56	232	V
	* 3.693	39.78	MAv1	33.6	-31.1	.11	42.39	54	-11.61	-	-	56	232	V
6	10.465	27.46	PK	37.4	-23.2	0	41.66	-	-	-	-	0-360	199	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

-Compliance for emissions in non-restricted bands shown in conducted out of band testing

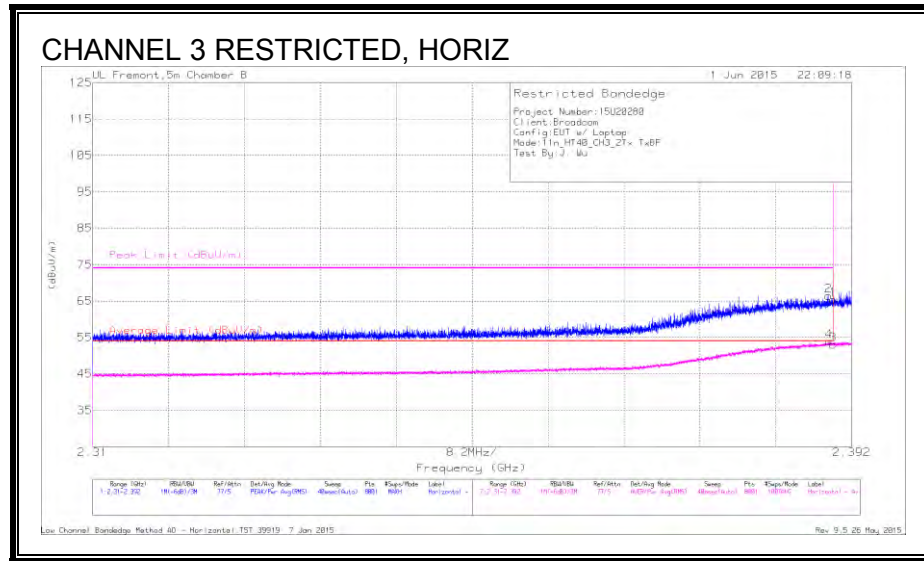
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.9. TX ABOVE 1 GHz 802.11ac HT40 TxBF 2Tx MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 3)



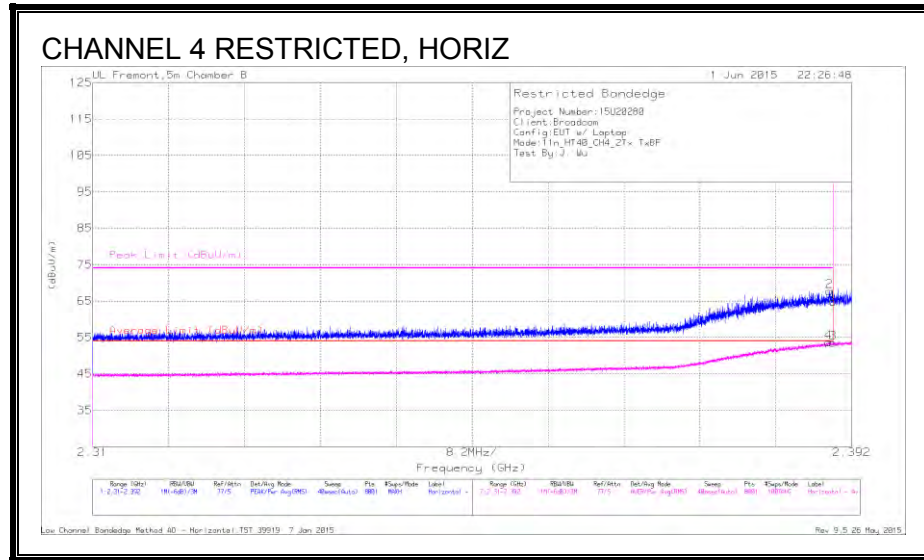
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	28.92	Pk	32	5.5	0	66.42	-	-	74	-7.58	290	318	H
1	2.39	27.95	Pk	32	5.5	0	65.45	-	-	74	-8.55	290	318	H
3	2.39	15.25	RMS	32	5.5	.24	52.99	54	-1.01	-	-	290	318	H
4	2.39	16.19	RMS	32	5.5	.24	53.93	54	-.07	-	-	290	318	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 4)



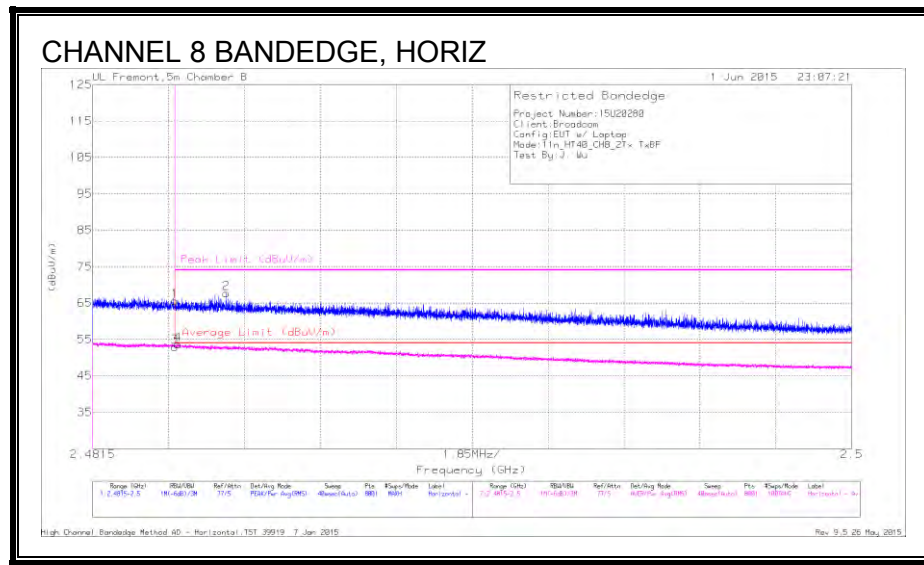
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.389	15.91	RMS	32	5.5	.24	53.65	54	-.35	-	-	277	319	H
1	2.39	27.36	PK	32	5.5	0	64.86	-	-	74	-9.14	277	319	H
2	2.39	30.22	PK	32	5.5	0	67.72	-	-	74	-6.28	277	319	H
3	2.39	15.77	RMS	32	5.5	.24	53.51	54	-.49	-	-	277	319	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 8)



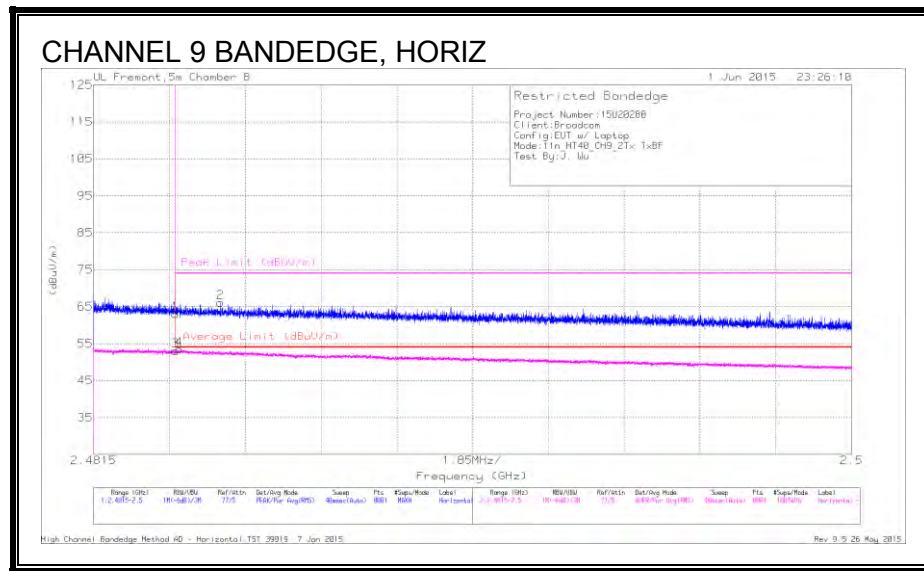
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	27.32	Pk	32.5	5.7	0	65.52	-	-	74	-8.48	295	293	H
3	2.484	14.52	RMS	32.5	5.7	.24	52.96	54	-1.04	-	-	295	293	H
4	2.484	15.25	RMS	32.5	5.7	.24	53.69	54	-.31	-	-	295	293	H
2	2.485	29.48	Pk	32.5	5.7	0	67.68	-	-	74	-6.32	295	293	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 9)



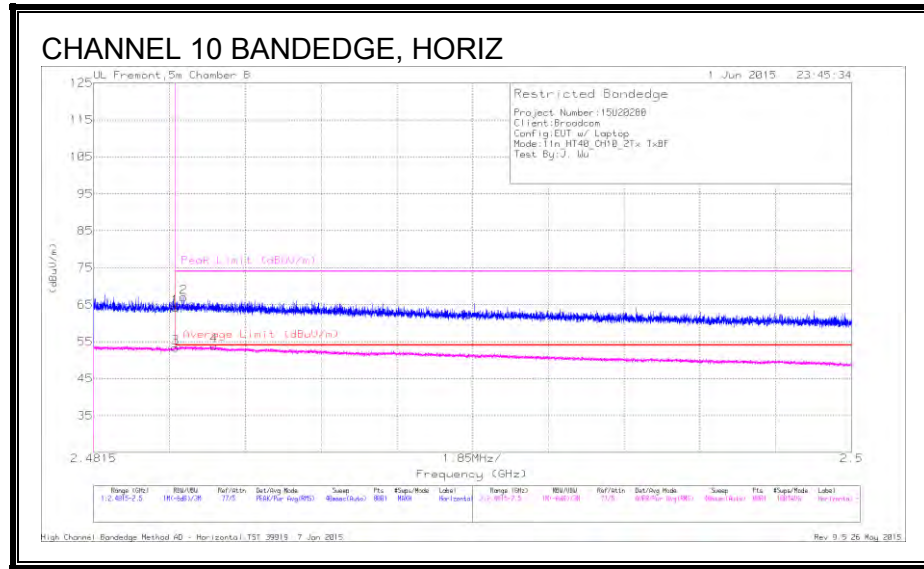
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	24.91	PK	32.5	5.7	0	63.11	-	-	74	-10.89	289	231	H
3	2.484	14.65	RMS	32.5	5.7	.24	53.09	54	-.91	-	-	289	231	H
4	2.484	15.07	RMS	32.5	5.7	.24	53.51	54	-.49	-	-	289	231	H
2	2.485	27.93	PK	32.5	5.7	0	66.13	-	-	74	-7.87	289	231	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)



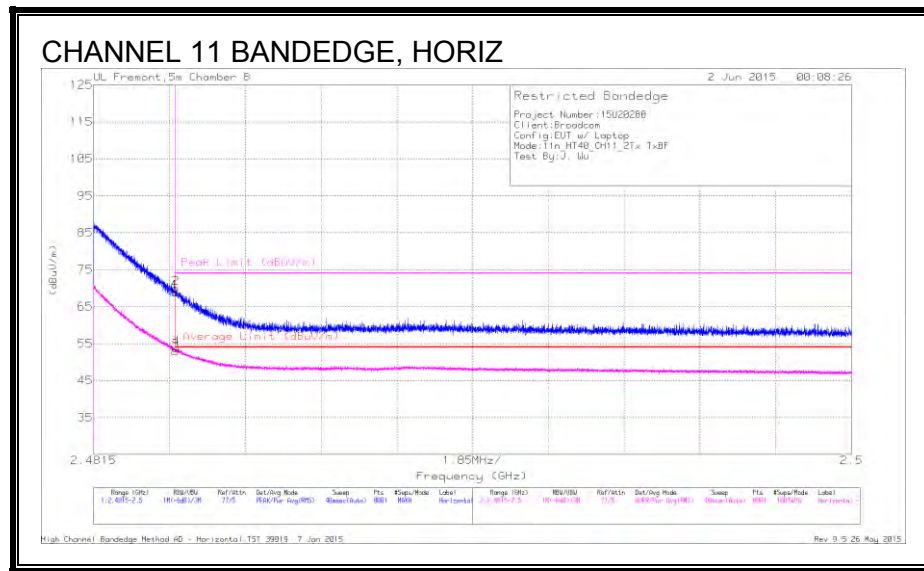
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	26.14	Pk	32.5	5.7	0	64.34	-	-	74	-9.66	286	235	H
2	2.484	28.81	Pk	32.5	5.7	0	67.01	-	-	74	-6.99	286	235	H
3	2.484	14.97	RMS	32.5	5.7	.24	53.41	54	-59	-	-	286	235	H
4	2.484	15.42	RMS	32.5	5.7	.24	53.86	54	-14	-	-	286	235	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 11)



Trace Markers

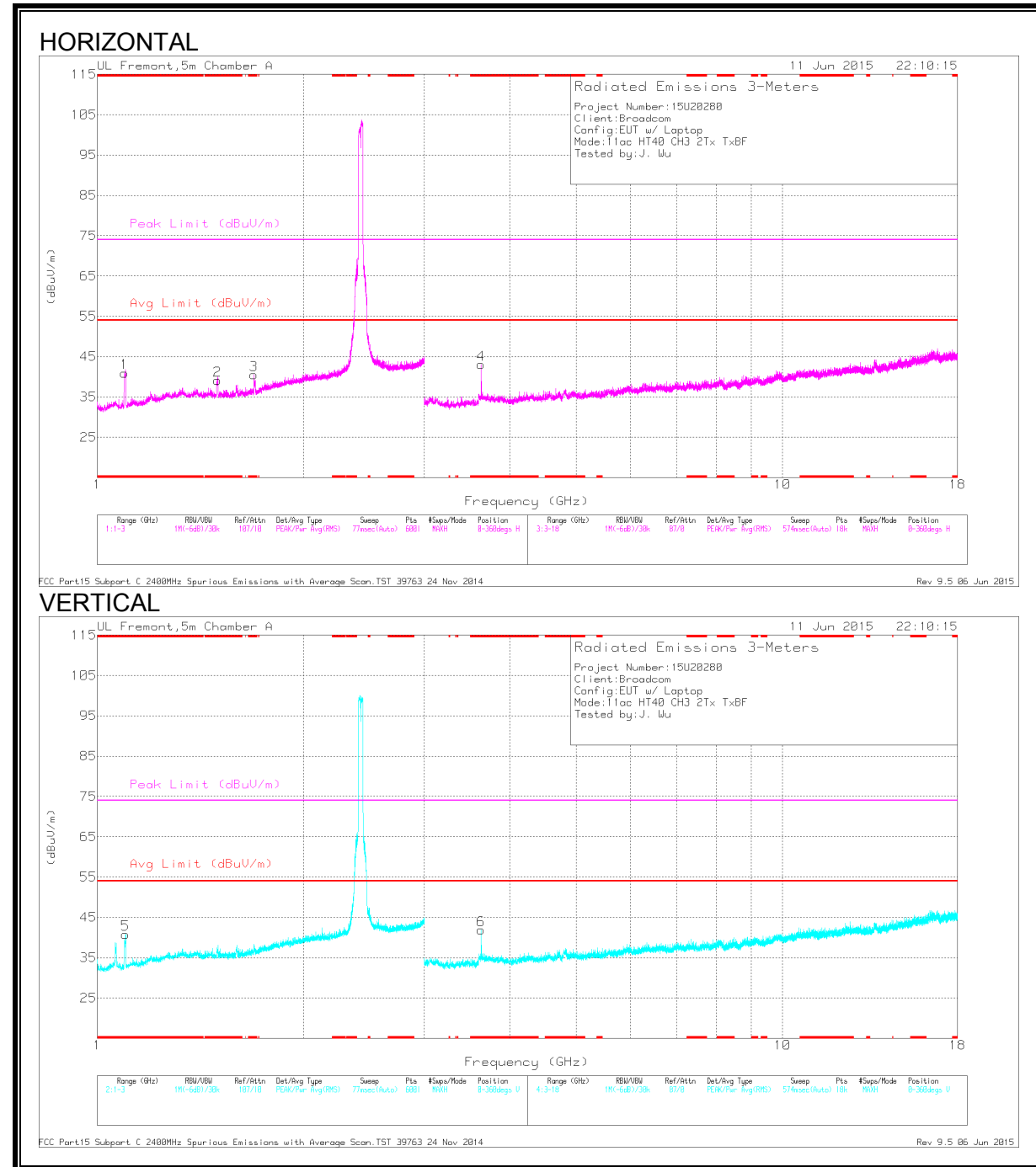
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	30.72	Pk	32.5	5.7	0	68.92	-	-	74	-5.08	281	235	H
2	2.484	31.79	Pk	32.5	5.7	0	69.99	-	-	74	-4.01	281	235	H
3	2.484	14.52	RMS	32.5	5.7	.24	52.96	54	-1.04	-	-	281	235	H
4	2.484	15.28	RMS	32.5	5.7	.24	53.72	54	-.28	-	-	281	235	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.1	43.03	PK2	27.2	-22.1	0	48.13	-	-	74	-25.87	254	114	H
	* 1.097	33	MAv1	27.2	-22.1	.24	38.34	54	-15.66	-	-	254	114	H
2	* 1.5	41.32	PK2	28.1	-20.9	0	48.52	-	-	74	-25.48	334	320	H
	* 1.497	28.75	MAv1	28.1	-20.9	.24	36.19	54	-17.81	-	-	334	320	H
3	* 1.693	41.19	PK2	28.6	-20.9	0	48.89	-	-	74	-25.11	339	259	H
	* 1.693	28.21	MAv1	28.6	-20.9	.24	36.15	54	-17.85	-	-	339	259	H
5	* 1.098	42.88	PK2	27.2	-22.1	0	47.98	-	-	74	-26.02	191	366	V
	* 1.098	32.38	MAv1	27.2	-22.1	.24	37.72	54	-16.28	-	-	191	366	V
4	* 3.633	46.81	PK2	33.2	-32.6	0	47.41	-	-	74	-26.59	352	322	H
	* 3.633	41.18	MAv1	33.2	-32.6	.24	42.02	54	-11.98	-	-	352	322	H
6	* 3.633	46.25	PK2	33.2	-32.6	0	46.85	-	-	74	-27.15	128	200	V
	* 3.633	37.8	MAv1	33.2	-32.6	.24	38.64	54	-15.36	-	-	128	200	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

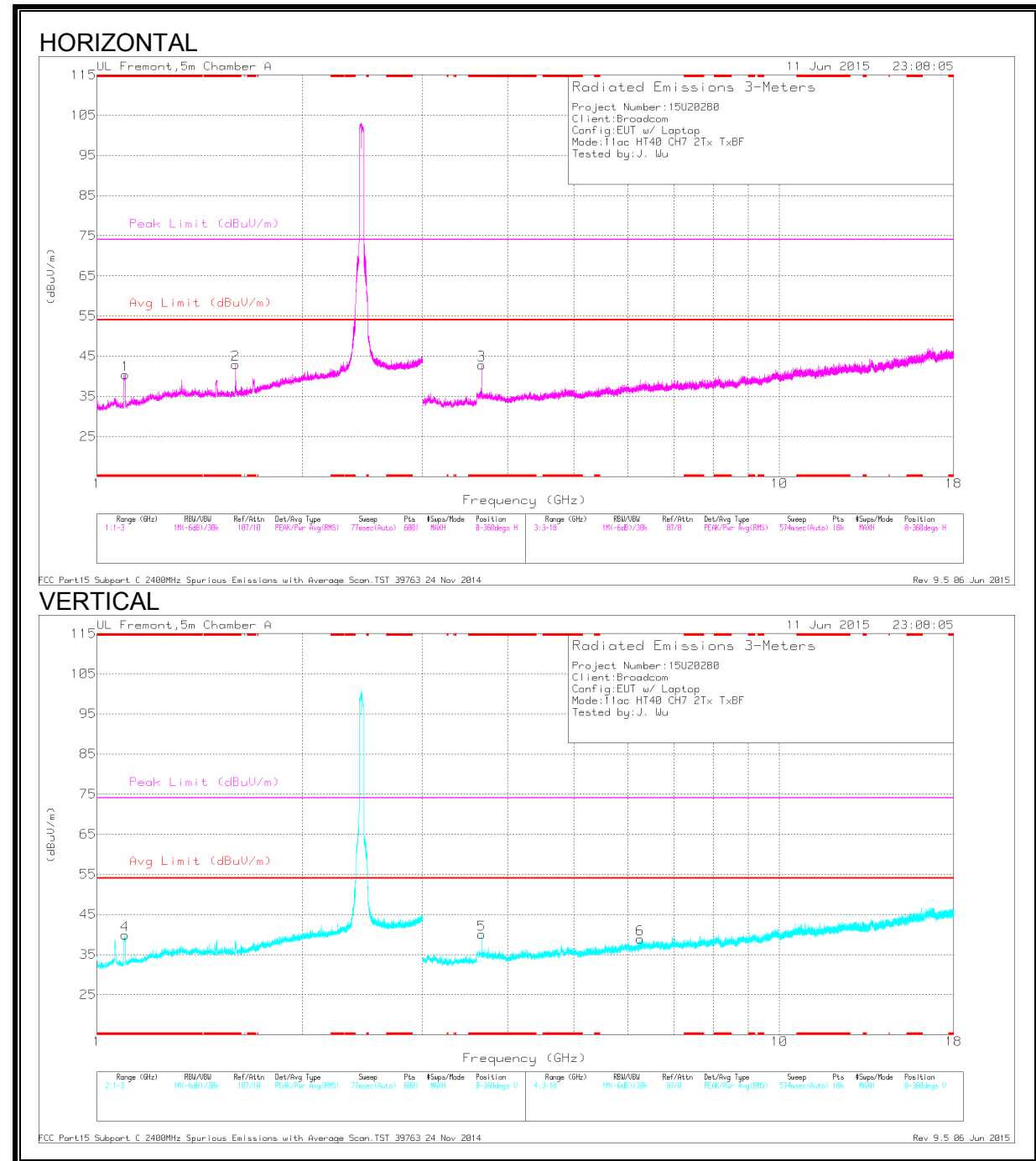
-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.099	43.1	PK2	27.2	-22.1	0	48.2	-	-	74	-25.8	253	113	H
	* 1.098	32.99	MAv1	27.2	-22.1	.24	38.33	54	-15.67	-	-	253	113	H
2	* 1.595	46.81	PK2	27.9	-20.9	0	53.81	-	-	74	-20.19	74	400	H
	* 1.596	26.15	MAv1	27.9	-20.9	.24	33.39	54	-20.61	-	-	74	400	H
4	* 1.1	42.85	PK2	27.2	-22.1	0	47.95	-	-	74	-26.05	193	386	V
	* 1.097	32.33	MAv1	27.2	-22.1	.24	37.67	54	-16.33	-	-	193	386	V
3	* 3.663	47.23	PK2	33.2	-32.3	0	48.13	-	-	74	-25.87	11	282	H
	* 3.663	41.23	MAv1	33.2	-32.3	.24	42.37	54	-11.63	-	-	11	282	H
5	* 3.663	46.13	PK2	33.2	-32.3	0	47.03	-	-	74	-26.97	284	193	V
	* 3.663	37.87	MAv1	33.2	-32.3	.24	39.01	54	-14.99	-	-	284	193	V
6	6.251	31.73	Pk	35.5	-28.3	0	38.93	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

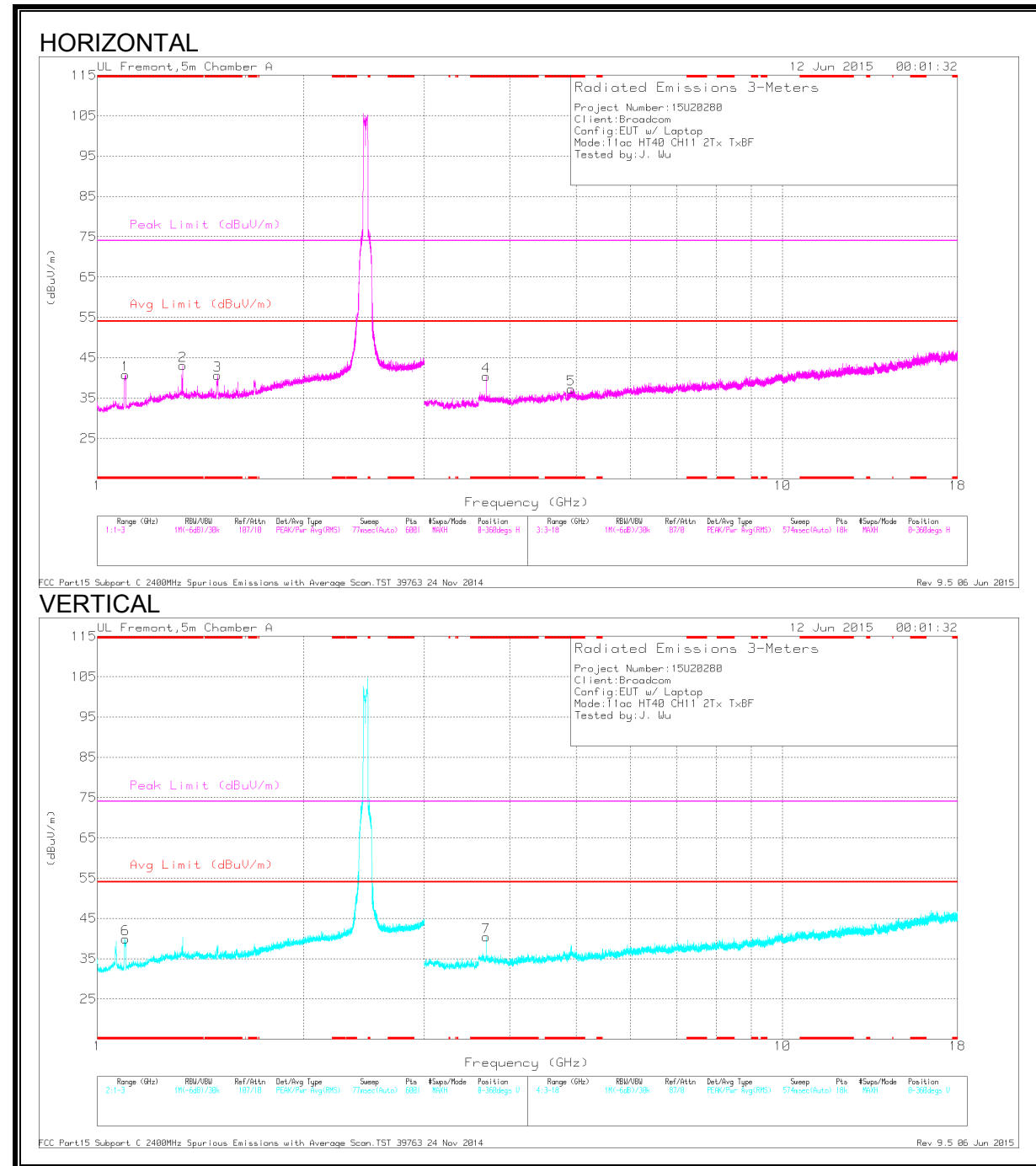
-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.099	43.19	PK2	27.2	-22.1	0	48.29	-	-	74	-25.71	210	124	H
	* 1.098	33.03	MAv1	27.2	-22.1	.24	38.37	54	-15.63	-	-	210	124	H
2	* 1.333	40.24	PK2	28.7	-21.2	0	47.74	-	-	74	-26.26	192	367	H
	* 1.331	25.4	MAv1	28.7	-21.2	.24	33.14	54	-20.86	-	-	192	367	H
3	* 1.499	40.87	PK2	28.1	-20.9	0	48.07	-	-	74	-25.93	334	100	H
	* 1.497	28.1	MAv1	28.1	-20.9	.24	35.54	54	-18.46	-	-	334	100	H
6	* 1.099	42.45	PK2	27.2	-22.1	0	47.55	-	-	74	-26.45	194	390	V
	* 1.098	32.09	MAv1	27.2	-22.1	.24	37.43	54	-16.57	-	-	194	390	V
4	* 3.693	46.03	PK2	33.2	-32.5	0	46.73	-	-	74	-27.27	9	275	H
	* 3.693	39.07	MAv1	33.2	-32.5	.24	40.01	54	-13.99	-	-	9	275	H
5	* 4.921	41.25	PK2	33.9	-29.6	0	45.55	-	-	74	-28.45	43	247	H
	* 4.921	29.55	MAv1	33.9	-29.6	.24	34.09	54	-19.91	-	-	43	247	H
7	* 3.693	45.91	PK2	33.2	-32.5	0	46.61	-	-	74	-27.39	51	179	V
	* 3.693	39.03	MAv1	33.2	-32.5	.24	39.97	54	-14.03	-	-	51	179	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

-Compliance for emissions in non-restricted bands is shown in conducted out of band testing

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.10. WORST-CASE 18-26 GHz

SPURIOUS EMISSIONS 18 – 26GHz



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.465	41.77	Pk	32.5	-24.1	-9.5	40.67	54	-13.33	74	-33.33
2	23.982	44.57	Pk	33.3	-22.7	-9.5	45.67	54	-8.33	74	-28.33
3	24.641	45.13	Pk	33.9	-22.7	-9.5	46.83	54	-7.17	74	-27.17
4	20.398	42	Pk	32.6	-23.6	-9.5	41.5	54	-12.5	74	-32.5
5	21.224	42.37	Pk	33.1	-23.8	-9.5	42.17	54	-11.83	74	-31.83
6	25.174	44.87	Pk	33.7	-22.9	-9.5	46.17	54	-7.83	74	-27.83

PK - Peak detector

9.11. WORST-CASE BELOW 1 GHz

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

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 241.2	54.31	PK	11.5	-29.7	36.11	46.02	-9.91	0-360	101	H
2	43.77	37.61	PK	11.5	-31.1	18.01	40	-21.99	0-360	101	V
1	70.035	37.92	PK	8.1	-30.8	15.22	40	-24.78	0-360	200	H
4	150.5725	45.39	PK	12.6	-30.2	27.79	43.52	-15.73	0-360	101	V
3	151.9325	50.03	PK	12.5	-30.2	32.33	43.52	-11.19	0-360	200	H
6	531.5	35.88	PK	17.9	-28.7	25.08	46.02	-20.94	0-360	101	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

QP - Quasi-Peak detector

Note: Signals in non-restricted bands are covered by -30 dBc antenna port spurious testing. However, they are also shown to pass the limit in this table.

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

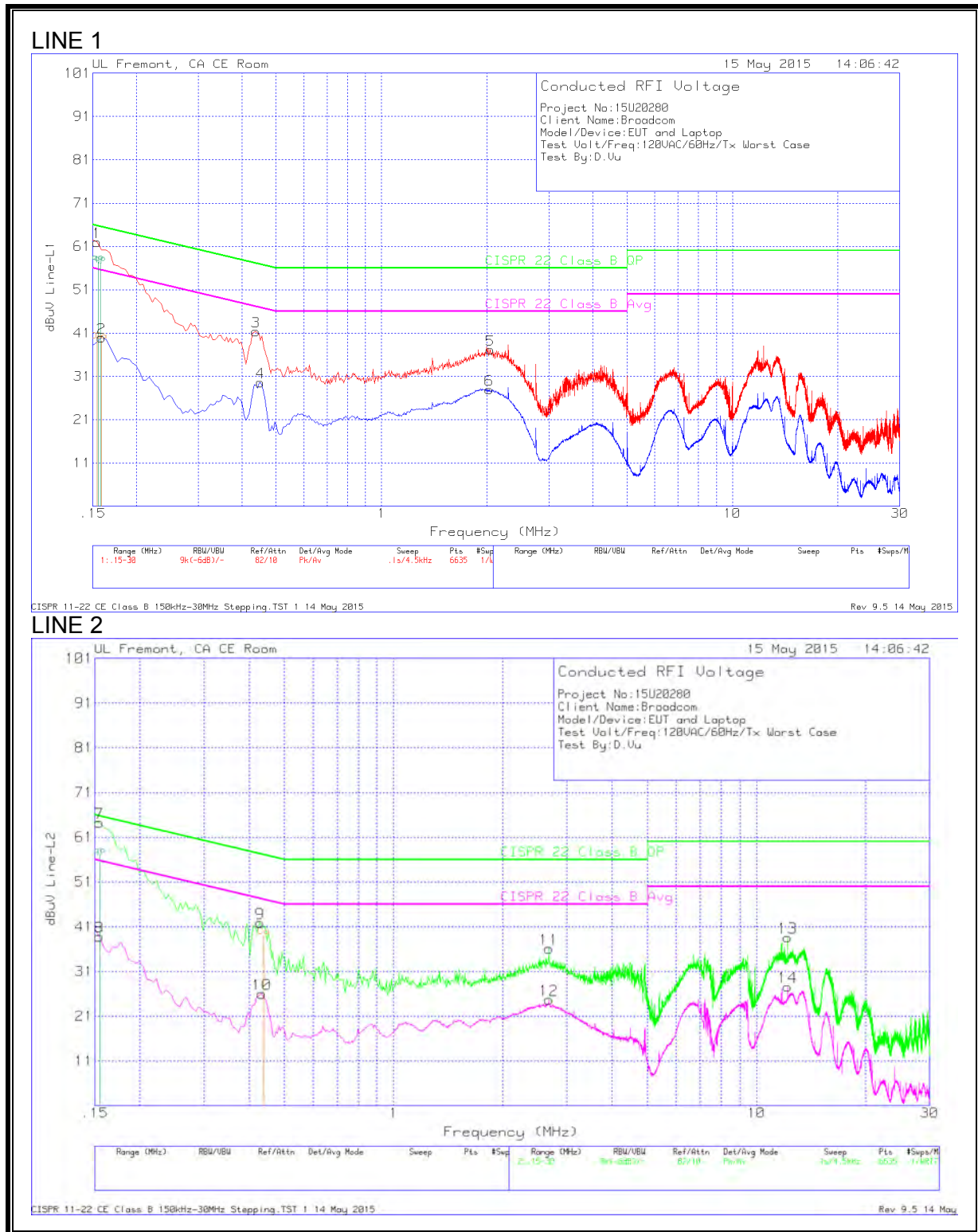
FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

RESULTS



Trace Markers

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.1545	60.71	Pk	1.3	0	62.01	65.75	-3.74	-	-
2	.159	38.65	Av	1.3	0	39.95	-	-	55.52	-15.57
3	.438	39.98	Pk	.4	0	40.38	57.1	-16.72	47.1	-6.72
4	.4515	29.2	Av	.4	0	29.6	-	-	46.85	-17.25
5	2.04	36.82	Pk	.2	.1	37.12	56	-18.88	46	-8.88
6	2.0265	27.67	Av	.2	.1	27.97	-	-	46	-18.03

Range 1: Line-L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
.15563	37.86	Ca	1.3	0	39.16	-	-	55.69	-16.53

Range 1: Line-L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
.15563	56.1	Qp	1.3	0	57.4	65.69	-8.29	-	-

Pk - Peak detector

Av - Average detection

Ca - CISPR average detection

Qp - Quasi-Peak detector

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
7	.1545	62.84	Pk	1.4	0	64.24	65.75	-1.51	-	-
8	.1545	37.37	Av	1.4	0	38.77	-	-	55.75	-16.98
9	.429	40.43	Pk	.4	0	40.83	57.27	-16.44	47.27	-6.44
10	.4335	25.59	Av	.4	0	25.99	-	-	47.19	-21.2
11	2.679	35.75	Pk	.2	.1	36.05	56	-19.95	46	-9.95
12	2.679	24.37	Av	.2	.1	24.67	-	-	46	-21.33
13	12.183	38.2	Pk	.2	.2	38.6	60	-21.4	50	-11.4
14	12.1875	27.18	Av	.2	.2	27.58	-	-	50	-22.42

Range 2: Line-L2 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
.15518	37.45	Ca	1.4	0	38.85	-	-	55.72	-16.87

Range 2: Line-L2 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
.15518	55.68	Qp	1.4	0	57.08	65.72	-8.64	-	-

Pk - Peak detector

Av - Average detection

Ca - CISPR average detection

Qp - Quasi-Peak detector