



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

**BLUETOOTH LOW ENERGY
CERTIFICATION TEST REPORT**

FOR

TABLET DEVICE

MODEL NUMBER: A1674, A1675

**FCC ID: BCGA1674
IC: 579C-A1674**

REPORT NUMBER: 15U22428-E2V2

ISSUE DATE: FEBRUARY 10, 2016

Prepared for
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1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.**

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	02/03/2016	Initial Issue	C.PANG
V2	02/10/2016	Address TCB's Questions	C. Pang

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. MEASURING INSTRUMENT CALIBRATION	7
4.2. SAMPLE CALCULATION	7
4.3. MEASUREMENT UNCERTAINTY.....	7
5. EQUIPMENT UNDER TEST	8
5.1. DESCRIPTION OF EUT	8
5.2. DESCRIPTION OF MODELS DIFFERENCES.....	8
5.3. MAXIMUM OUTPUT POWER.....	8
5.4. DESCRIPTION OF AVAILABLE ANTENNAS	8
5.5. SOFTWARE AND FIRMWARE.....	8
5.6. WORST-CASE CONFIGURATION AND MODE.....	9
5.7. DESCRIPTION OF TEST SETUP.....	10
6. TEST AND MEASUREMENT EQUIPMENT	17
7. ANTENNA PORT TEST RESULTS	18
7.1. MEASUREMENT METHODS	18
7.2. ON TIME, DUTY CYCLE	19
7.3. ANTENNA B HIGH POWER MODE.....	22
7.3.1. 6 dB BANDWIDTH.....	22
7.3.2. 99% BANDWIDTH.....	24
7.3.3. AVERAGE POWER	26
7.3.4. OUTPUT POWER	27
7.3.5. POWER SPECTRAL DENSITY	28
7.3.6. CONDUCTED SPURIOUS EMISSIONS.....	30
7.4. ANTENNA B LOW POWER MODE	34
7.4.1. 6 dB BANDWIDTH.....	34
7.4.2. 99% BANDWIDTH.....	36
7.4.3. AVERAGE POWER	38
7.4.4. OUTPUT POWER	39
7.4.5. POWER SPECTRAL DENSITY	40
7.4.6. CONDUCTED SPURIOUS EMISSIONS.....	42
7.5. ANTENNA D HIGH POWER MODE	46
7.5.1. 6 dB BANDWIDTH.....	46
7.5.2. 99% BANDWIDTH.....	48
7.5.3. AVERAGE POWER	50
7.5.4. OUTPUT POWER	51

7.5.5.	POWER SPECTRAL DENSITY	52
7.5.6.	CONDUCTED SPURIOUS EMISSIONS.....	54
7.6.	ANTENNA D LOW POWER MODE	58
7.6.1.	6 dB BANDWIDTH.....	58
7.6.2.	99% BANDWIDTH.....	60
7.6.3.	AVERAGE POWER	62
7.6.4.	OUTPUT POWER	63
7.6.5.	POWER SPECTRAL DENSITY	64
7.6.6.	CONDUCTED SPURIOUS EMISSIONS.....	66
8.	RADIATED TEST RESULTS.....	70
8.1.	LIMITS AND PROCEDURE	70
8.2.	TRANSMITTER ABOVE 1 GHz	71
8.2.1.	ANTENNA B RESTRICTED BANDEDGE	71
8.2.2.	ANTENNA B RESTRICTED BANDEDGE	81
8.2.3.	ANTENNA D RESTRICTED BANDEDGE.....	91
8.2.4.	ANTENNA D RESTRICTED BANDEDGE.....	101
8.3.	WORST-CASE BELOW 1 GHz.....	111
8.4.	WORST-CASE 18 to 26 GHz.....	113
9.	AC POWER LINE CONDUCTED EMISSIONS.....	115
9.1.	EUT POWERED BY AC/DC ADAPTER VIA USB CABLE	116
9.2.	EUT POWERED BY HOST PC VIA USB CABLE	118
10.	SETUP PHOTOS	120

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: TABLET DEVICE

MODEL: A1674, A1675

SERIAL NUMBER: DLXQ00ZH0JF (Conducted); DLXQL01HH0JF (Radiated)

DATE TESTED: NOVEMBER 06, 2015 – JANUARY 15, 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:



CHIN PANG
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

Tested By:



ERIC YU
EMC ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 558074 D01 v03r04, ANSI C63.10-2013, RSS-GEN Issue 4, and RSS-247 Issue 1.

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
<input type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input type="checkbox"/> Chamber B	<input checked="" type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input type="checkbox"/> Chamber F
	<input type="checkbox"/> Chamber G
	<input type="checkbox"/> 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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.52 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.94 dB
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 a tablet with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000 1xRTT/1xAdvanced/EVDO Rev.A/WCDMA/HSPA+/DC-HSDPA/LTE FDD & Carrier Aggregation/TDD/TD-SCDMA radio, IEEE 802.11a/b/g/n/ac radio, and Bluetooth radio. The rechargeable battery is not user accessible.

5.2. DESCRIPTION OF MODELS DIFFERENCES

Model tested: A1674. The Models A1674 & A1675 have one FCC ID: BCGA1674 and IC ID: 579C-A1674

Both Model A1674 and A1675 have identical PCB layout, design and functionality, except that A1674 supports second electronic-UICC based SIM or "soft SIM" (called eSIM) beside the regular UICC based SIM and A1675 will come with eSIM removed.

RF and electromagnetic characteristic are independent of the eSIM element. Both models have exactly same technology and band support.

5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	BLE Ant. B Low Power Mode	9.28	8.47
	BLE Ant. B High Power Mode	17.24	52.97
	BLE Ant. D Low Power Mode	5.23	3.33
	BLE Ant. D High Power Mode	12.23	16.71

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Band (GHz)	Antenna Gain (dBi)	
	Antenna B	Antenna D
2.4	-1.75	0.96

5.5. SOFTWARE AND FIRMWARE

The software installed in the EUT during testing was 13E31820k.

5.6. WORST-CASE CONFIGURATION AND MODE

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

The fundamental of the EUT was investigated in three orthogonal orientations X/Y/Z, it was determined that Y orientation was the worst-case orientation. Therefore, all final radiated testing was performed with the EUT in Y orientation.

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

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

BLE: 1 Mbps.

There are two vendors of the WiFi/Bluetooth radio modules: variant 1 and variant 2. The WiFi/Bluetooth radio modules have the same mechanical outline (e.g., the same package dimension and pin-out layout), use the same on-board antenna matching circuit, have an identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances.

Baseline testing was performed on the two variants to determine the worst case on all conducted power and radiated emissions.

For simultaneous transmission of multiple channels from the same antenna in the 2.4 GHz and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found. Simultaneous transmission does not support BT/BLE High Power Mode.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Dell	Latitude 3540	6LNG802	N/A
Laptop AC/DC adapter	Dell	FA90PE1-00	CN-OCM889-73245-95L-4954-A00	N/A
Earphone	Apple	NA	NA	N/A
EUT AC/DC adapter	Apple	A1385	D293062F3WVDHLHCF	N/A

I/O CABLES (CONDUCTED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Antenna	1	SMA	Un-Shielded	0.2	To spectrum Analyzer
2	USB	1	USB	Shielded	1	N/A
3	AC	1	AC	Un-shielded	3	N/A

I/O CABLES (RADIATED ABOVE 1 GHZ)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
None Used						

I/O CABLES (RADIATED BELOW 1 GHZ)

I/O Cable List						
Cable No	Port	# of identical	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Headphones Jack	1	3.5mm Audio	Shielded	0.9	N/A
2	AC	1	AC	Un-shielded	3	N/A

I/O CABLES (AC LINE CONDUCTED: AC/DC ADAPTER)

I/O Cable List						
Cable No	Port	# of identical	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Headphones Jack	1	3.5mm Audio	Shielded	0.9	N/A
2	AC	1	AC	Un-shielded	3	N/A

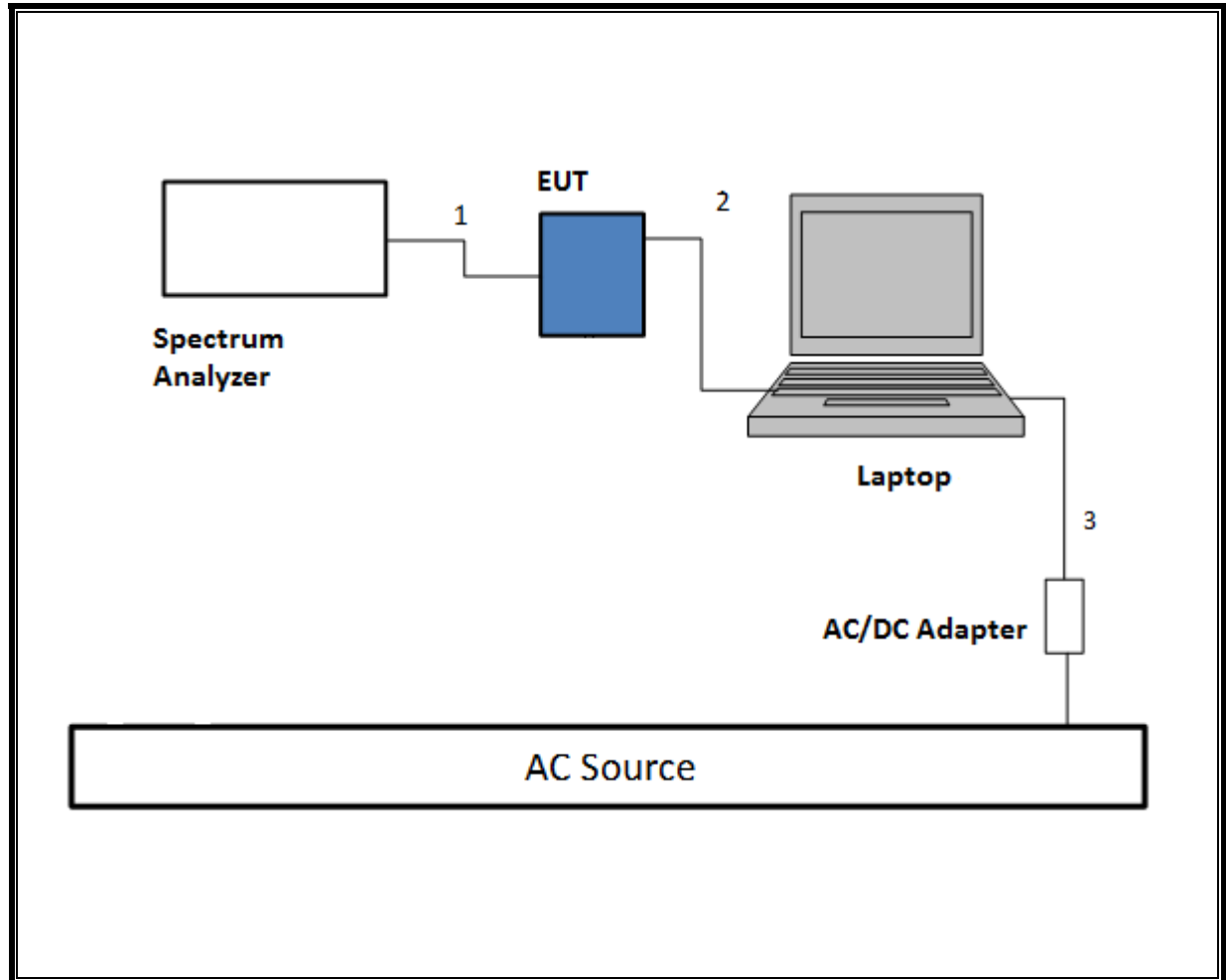
I/O CABLES (AC LINE CONDUCTED: LAPTOP CONFIGUARTION)

I/O Cable List						
Cable No	Port	# of identical	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Headphones Jack	1	3.5mm Audio	Shielded	0.9	N/A
2	USB	1	USB	Shielded	1	N/A
3	AC	1	AC	Un-shielded	3	N/A

TEST SETUP - CONDUCTED TESTS

The EUT was tested connected to a host Laptop via USB cable adapter and spectrum analyzer to antenna port. Test software exercised the EUT.

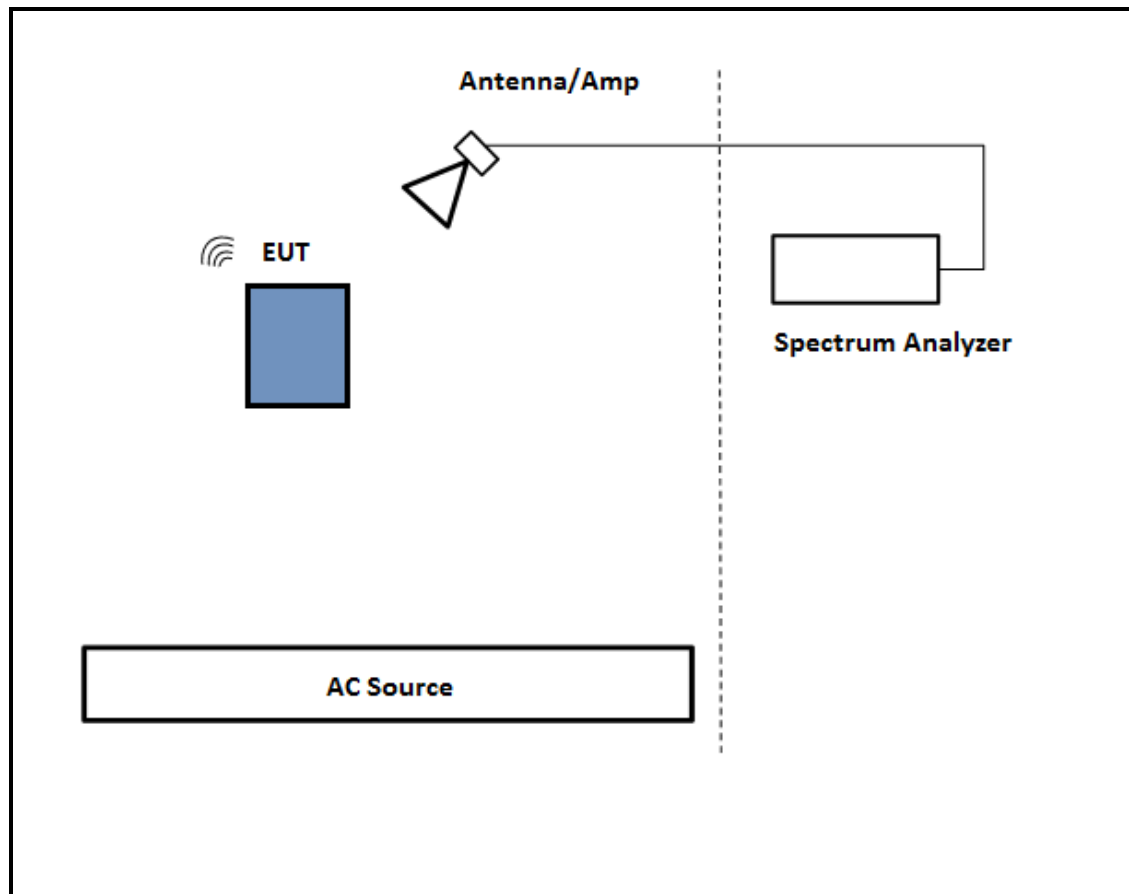
SETUP DIAGRAM



TEST SETUP- RADIATED-ABOVE 1 GHZ

The EUT was tested battery powered. Test software exercised the EUT.

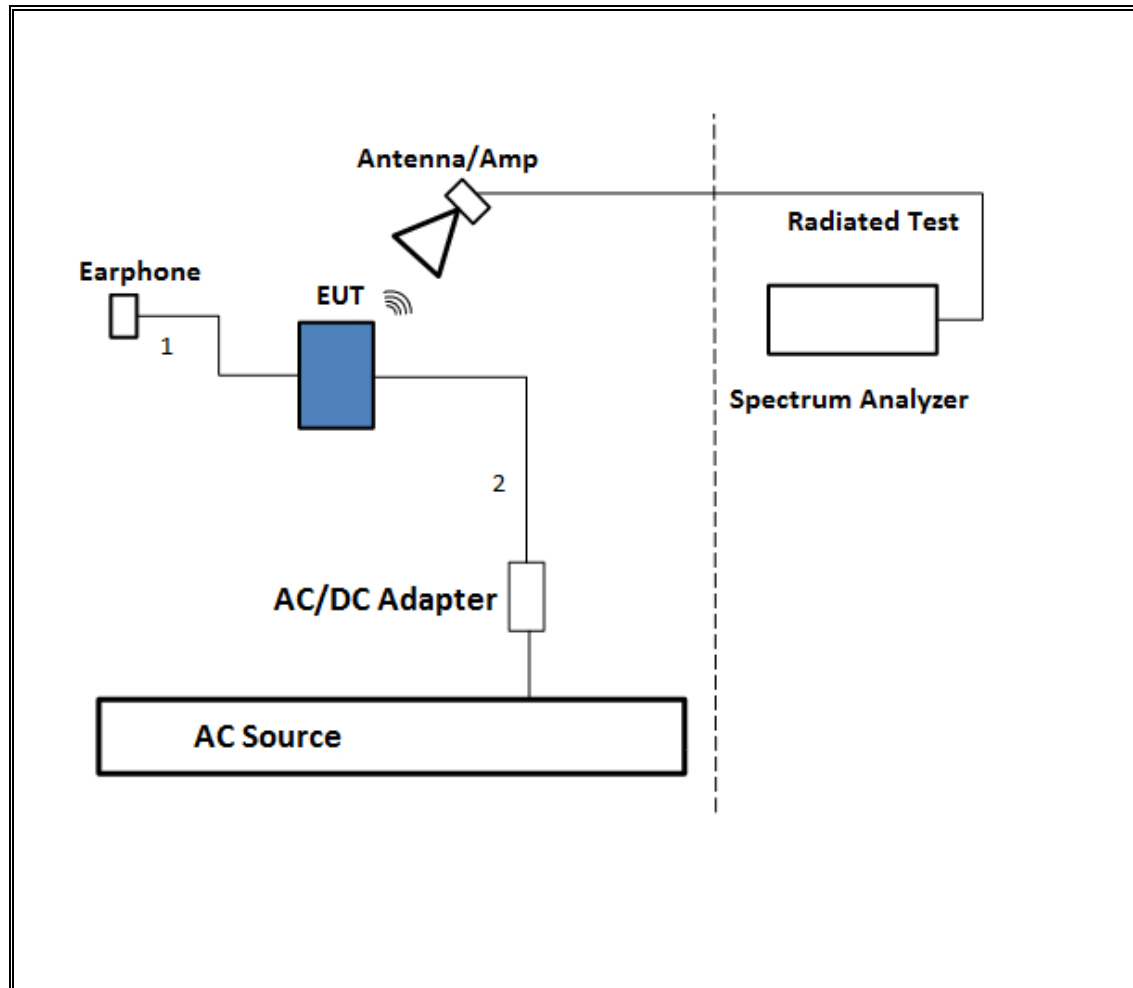
SETUP DIAGRAM



TEST SETUP- BELOW 1GHz

The EUT was tested with earphone connected and powered by AC adapter. Test software exercised the EUT.

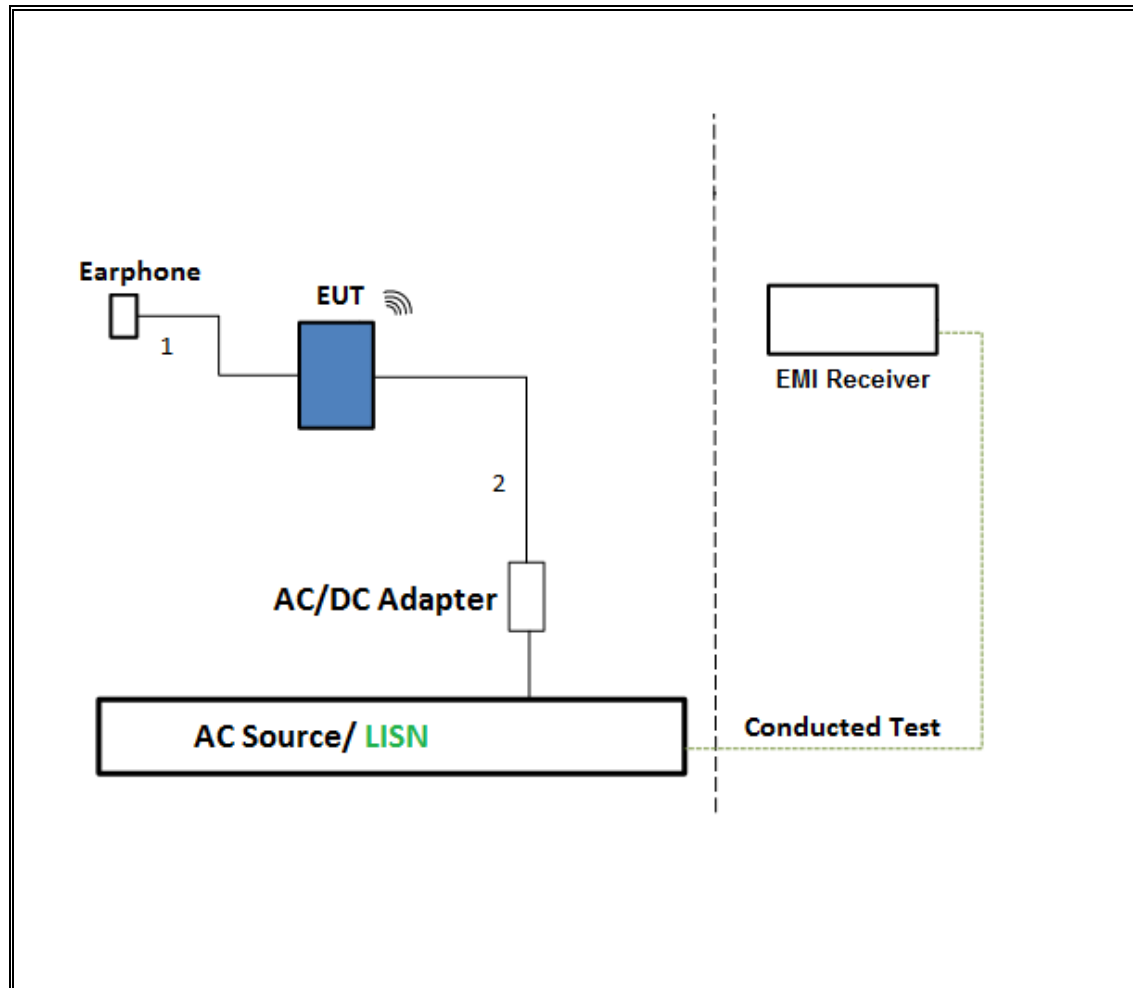
SETUP DIAGRAM



TEST SETUP- AC LINE CONDUCTED: AC/DC ADAPTER

The EUT was tested with earphone connected and powered by AC/DC adapter via USB cable. Test software exercised the EUT.

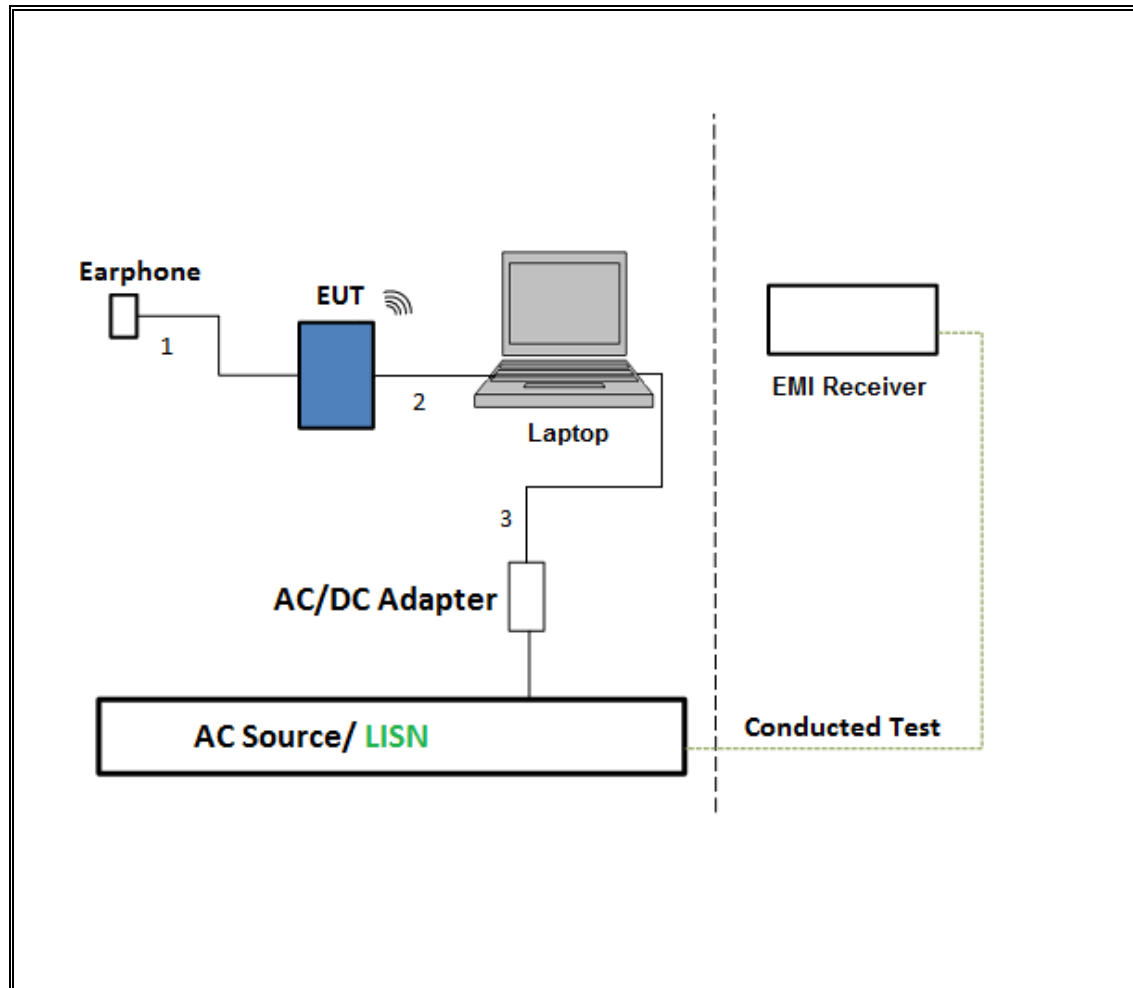
SETUP DIAGRAM



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION

The EUT was tested with earphone connected and powered by host PC via USB cable. Test software exercised the EUT.

SETUP DIAGRAM



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	Cal Date	Cal Due
Antenna, Horn 1-18GHz	ETS Lindgren	3117	2/10/2015	2/10/2016
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB1	9/25/2015	9/25/2016
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	8/12/2015	8/12/2016
Amplifier, 1 - 18GHz	Miteq	AMF-4D-01000800-30-29P	8/12/2015	8/12/2016
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	6/9/2015	6/9/2016
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	3/31/2015	3/31/2016
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	11/19/2015	11/19/2016
Power Meter, P-series single channel	Agilent	N1911A	4/7/2015	4/7/2016
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Agilent	N1921A	2/27/2015	2/27/2016
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826	5/12/2015	5/12/2016
Spectrum Analyzer, 40 GHz	Agilent	8564E	8/14/2015	8/14/2016
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Agilent	8449B	6/29/2015	6/29/2016
AC Line Conducted				
EMI Test Receiver 9KHz-7GHz	Rohde & Schwarz	ECSI7	08/07/15	08/07/16
LISN for Conducted Emissions CISPR-16	FCC	50/250-25-2	01/16/15	01/16/16
LISN for Conducted Emissions CISPR-16	Fisher	50/250-2-01	09/16/15	09/16/16
Power Cable, Line Conducted Emissions	U L	PG1	7/28/2015	7/28/2016
UL SOFTWARE				
* Radiated Software	UL	UL EMC	Ver 9.5, July 22, 2014	
* Conducted Software	UL	UL EMC	Ver 2.2, March 31, 2015	
* AC Line Conducted Software	UL	UL EMC	Ver 9.5, April 3, 2015	

Note: * indicates automation software version used in the compliance certification testing

7. ANTENNA PORT TEST RESULTS

7.1. MEASUREMENT METHODS

6 dB BW: KDB 558074 D01 v03r04, Section 8.1.

Output Power: KDB 558074 D01 v03r04, Section 9.1.2.

Power Spectral Density: KDB 558074 D01 v03r04, Section 10.2.

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r04, Section 11.0.

Out-of-band emissions in restricted bands: KDB 558074 D01 v03r04, Section 12.1.

Band-edge: KDB 558074 D01 v03r04, Section 12.1.

7.2. ON TIME, DUTY CYCLE

LIMITS

None; for reporting purposes only.

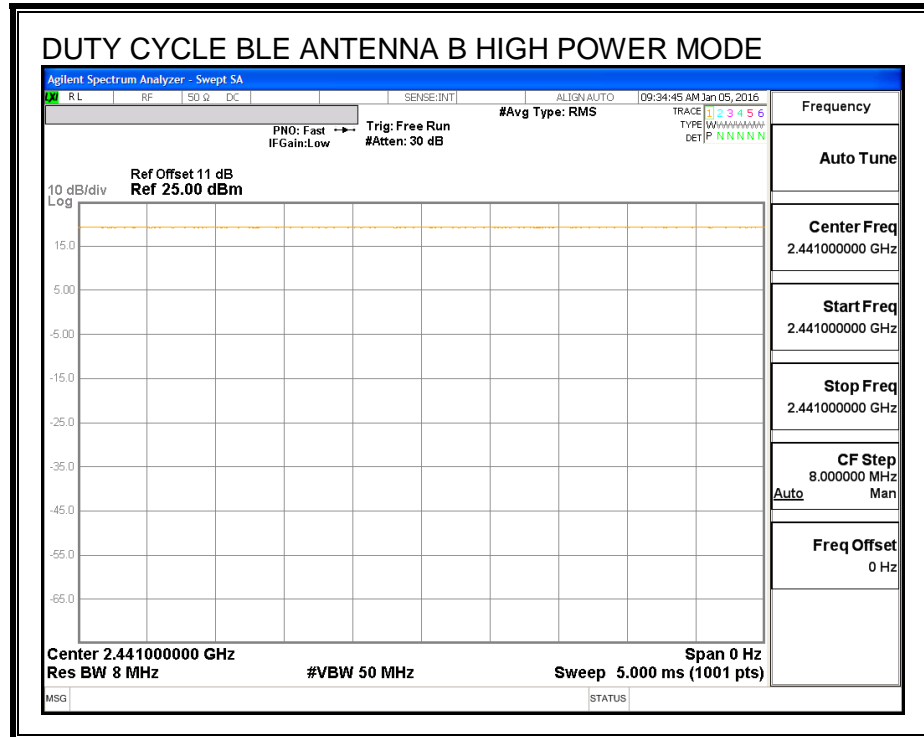
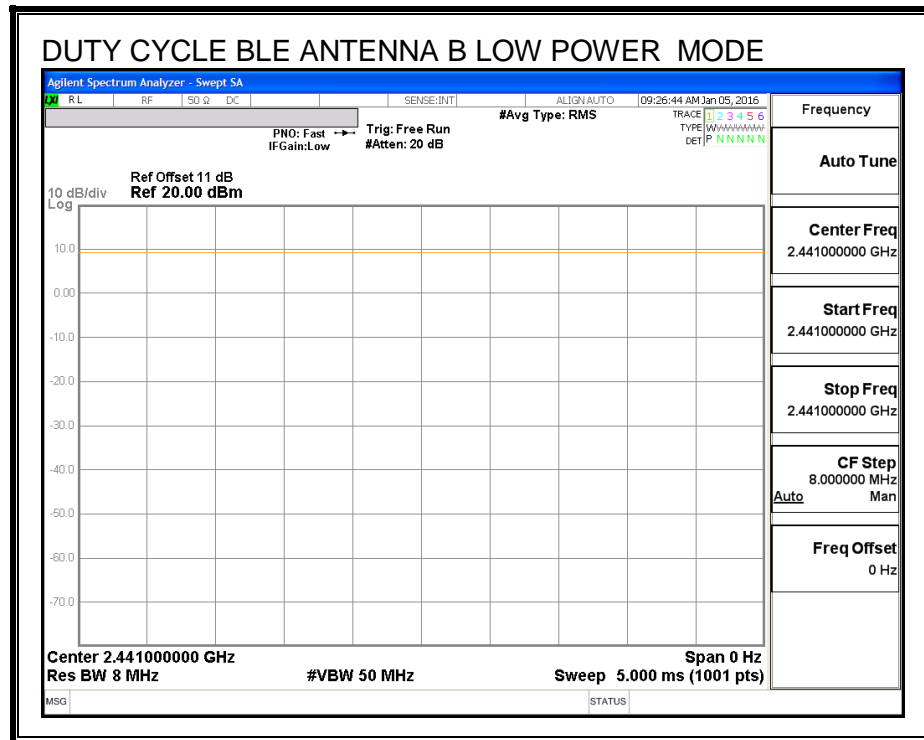
PROCEDURE

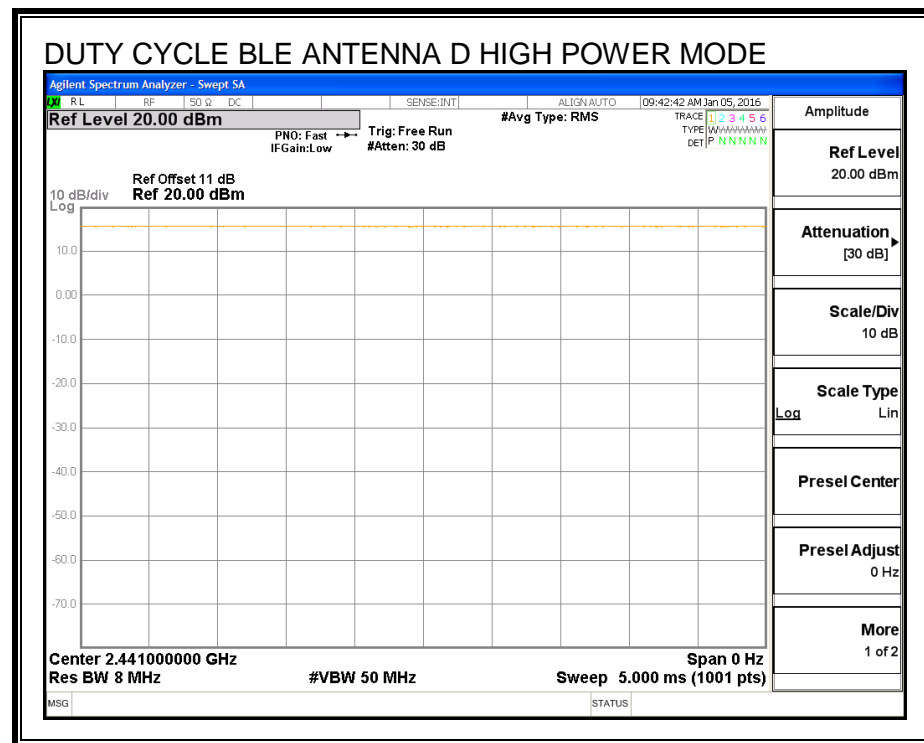
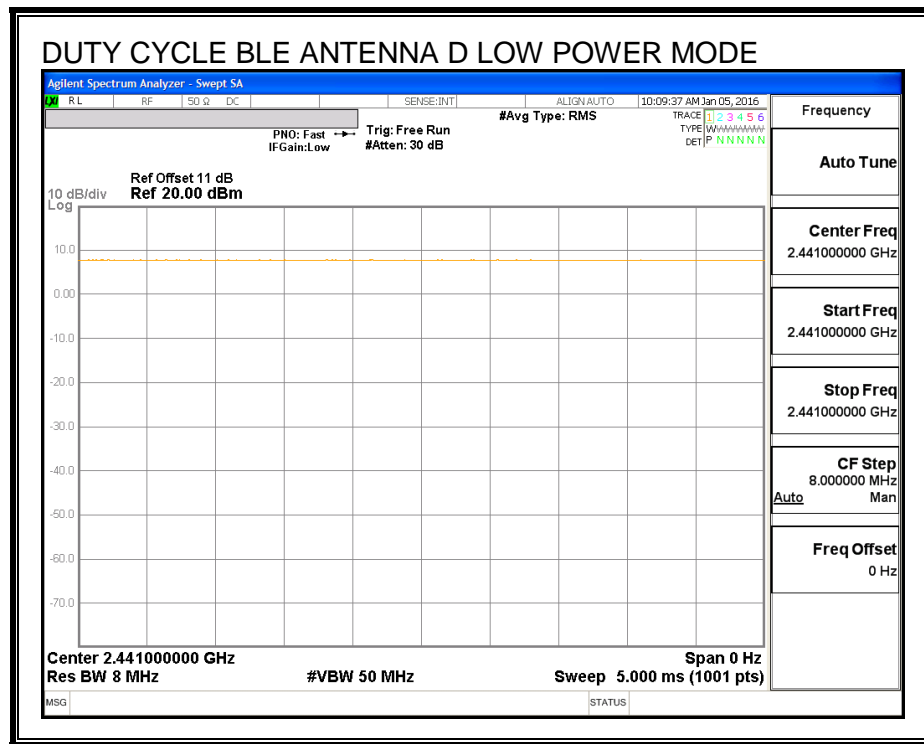
KDB 558074 Zero-Span Spectrum Analyzer Method.

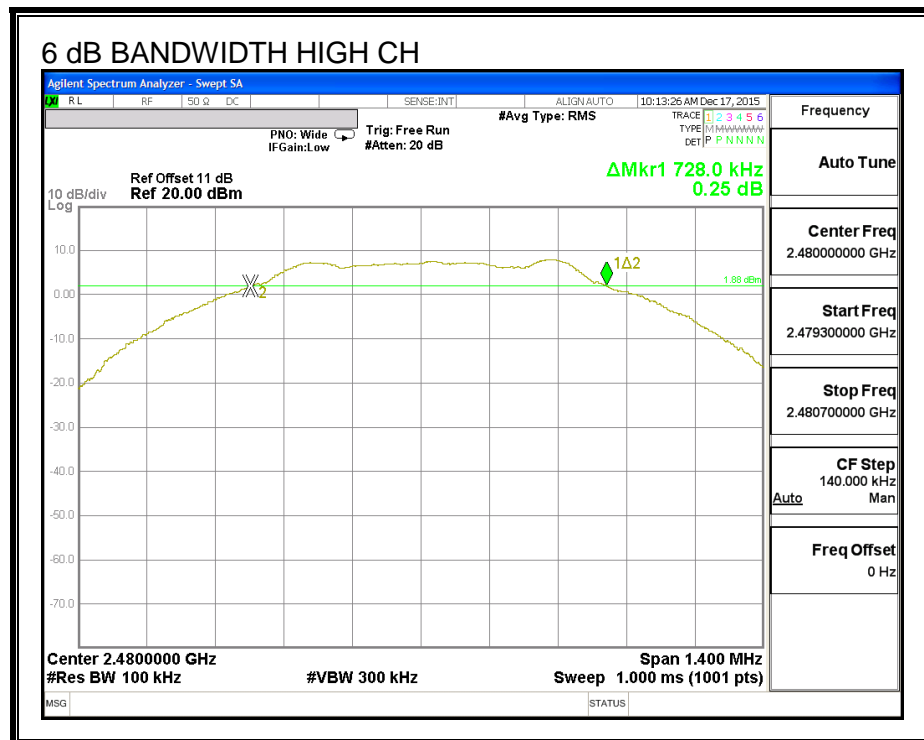
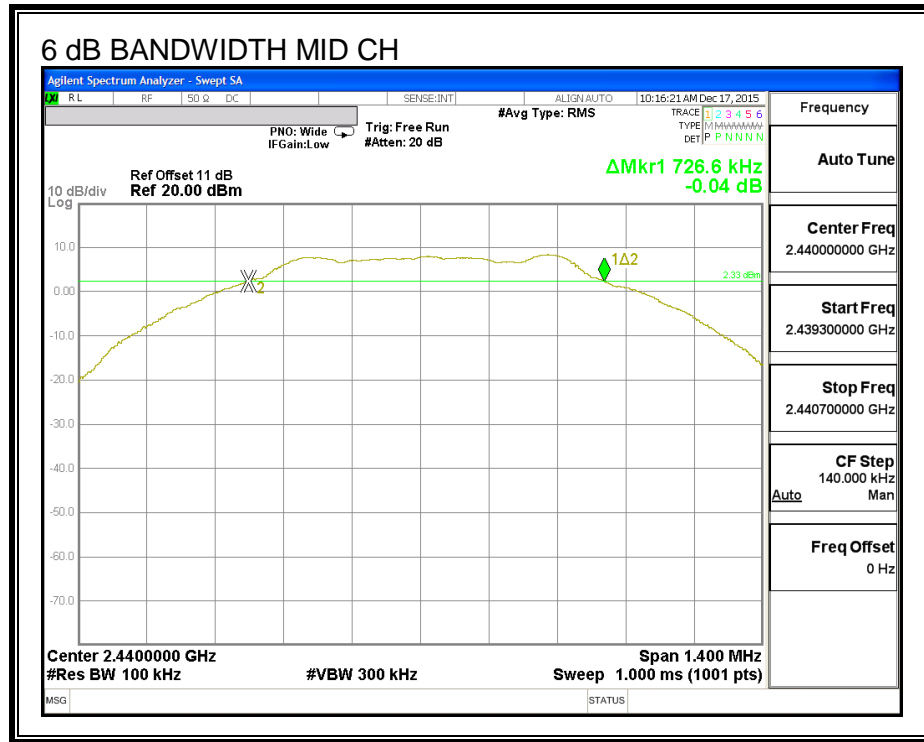
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
BLE Ant. B Low Power	5.000	5.000	1.000	100.00%	0.00	0.010
BLE Ant. B High Power	5.000	5.000	1.000	100.00%	0.00	0.010
BLE Ant. D Low Power	5.000	5.000	1.000	100.00%	0.00	0.010
BLE Ant. D High Power	5.000	5.000	1.000	100.00%	0.00	0.010

DUTY CYCLE PLOTS







7.3.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

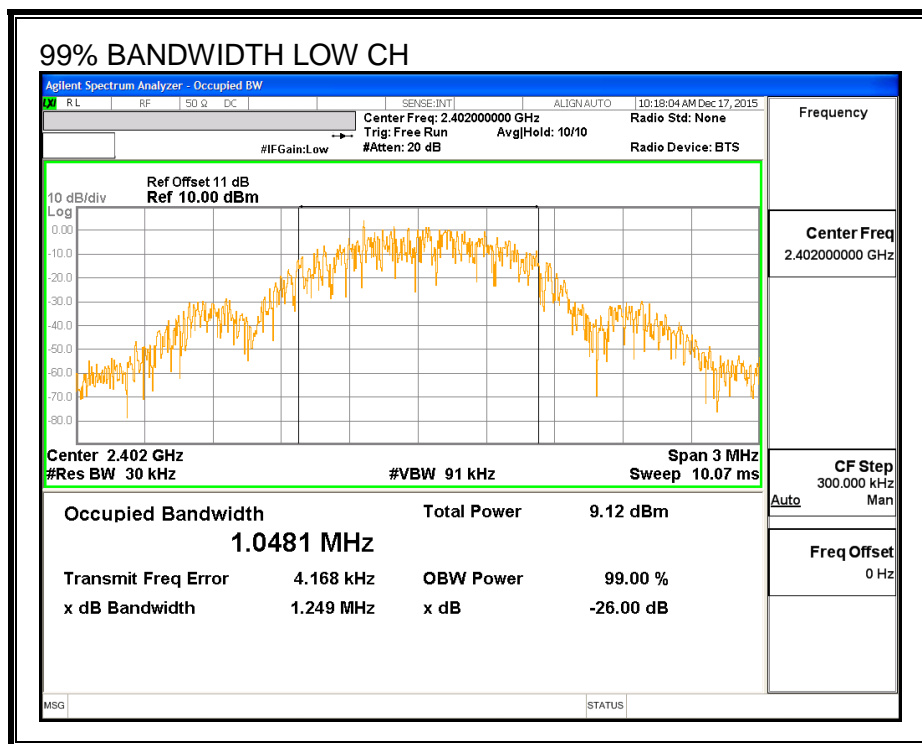
TEST PROCEDURE

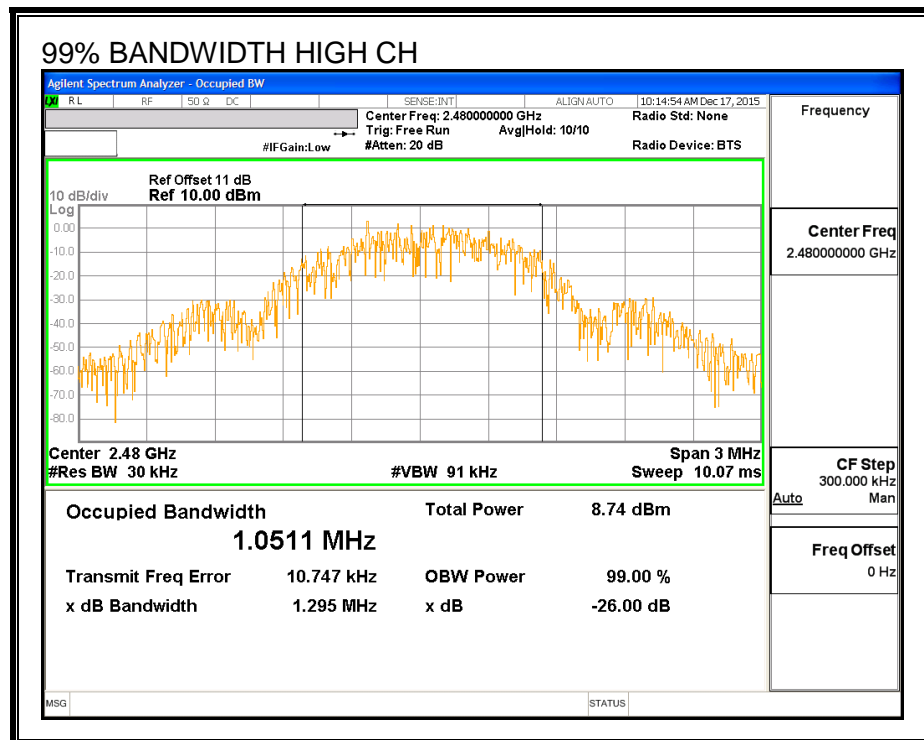
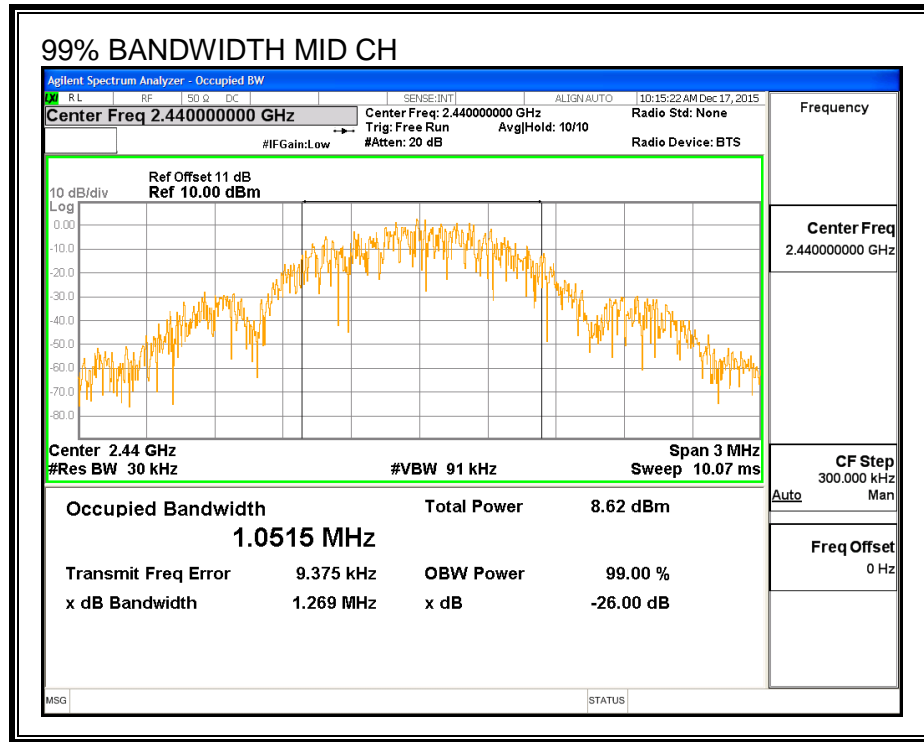
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0481
Middle	2440	1.0515
High	2480	1.0511

99% BANDWIDTH





7.3.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	16.88
Middle	2440	16.99
High	2480	16.93

7.3.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-247 (5.4) (4)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	17.12	30	-12.880
Middle	2440	17.24	30	-12.760
High	2480	17.18	30	-12.820

7.3.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

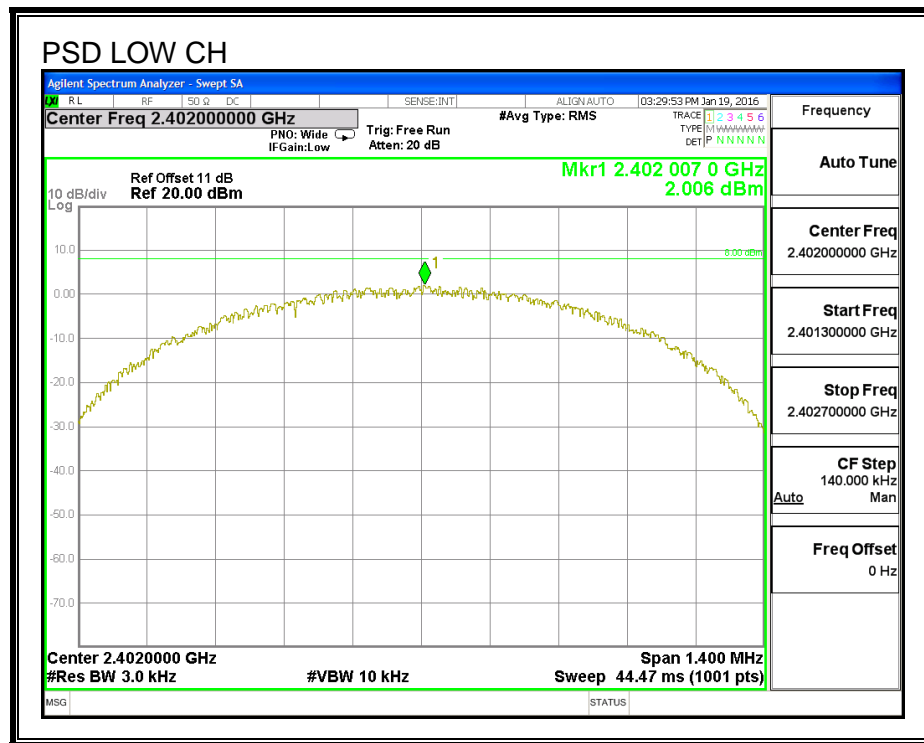
IC RSS-247 (5.2) (2)

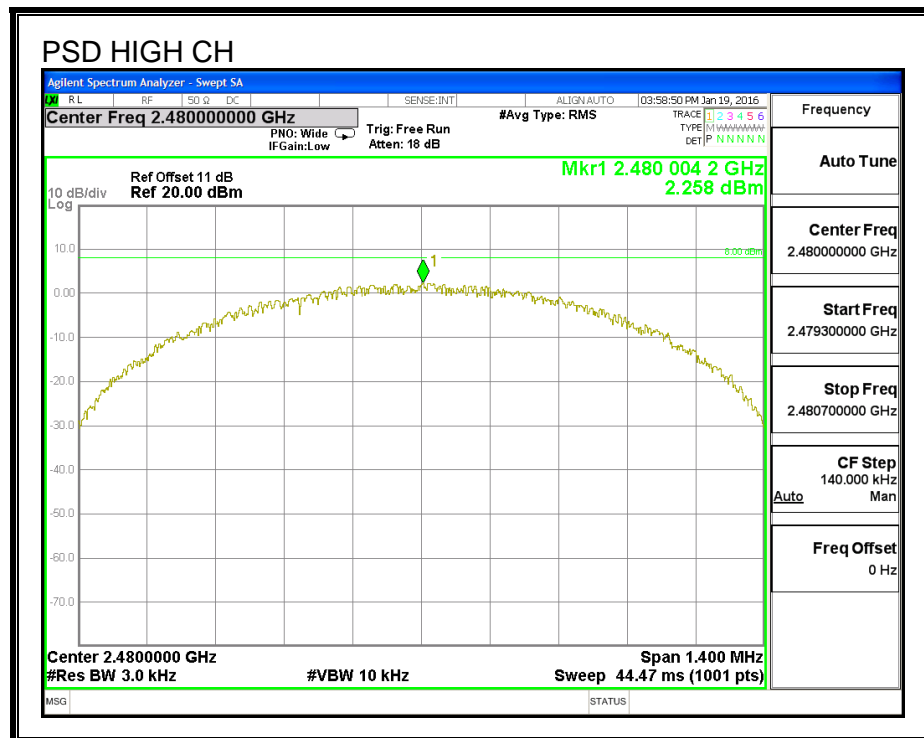
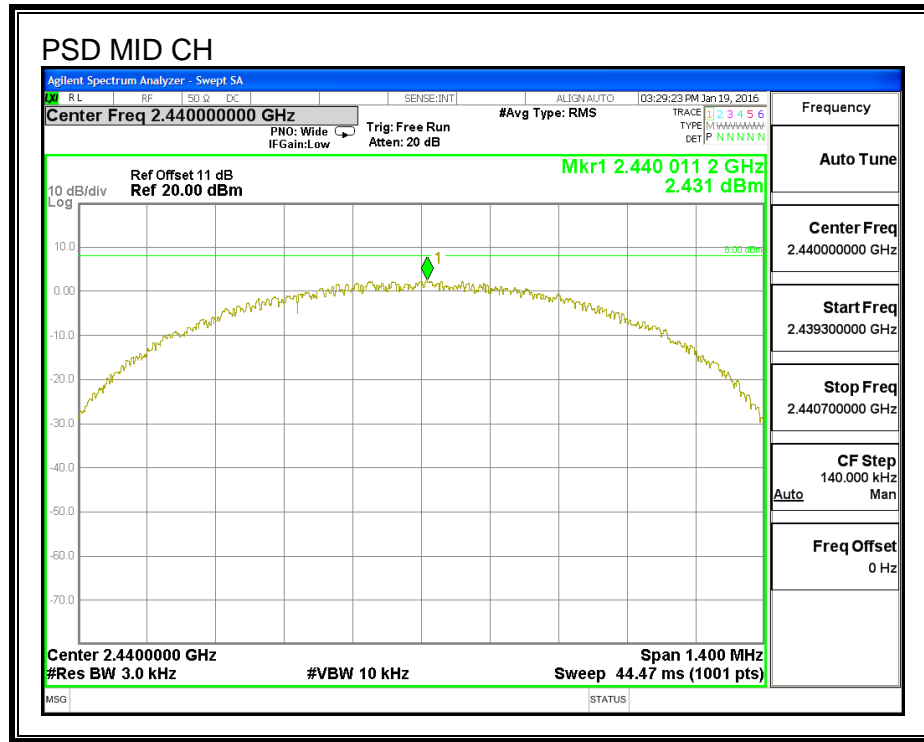
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	2.01	8	-5.99
Middle	2440	2.43	8	-5.57
High	2480	2.26	8	-5.74

POWER SPECTRAL DENSITY





7.3.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

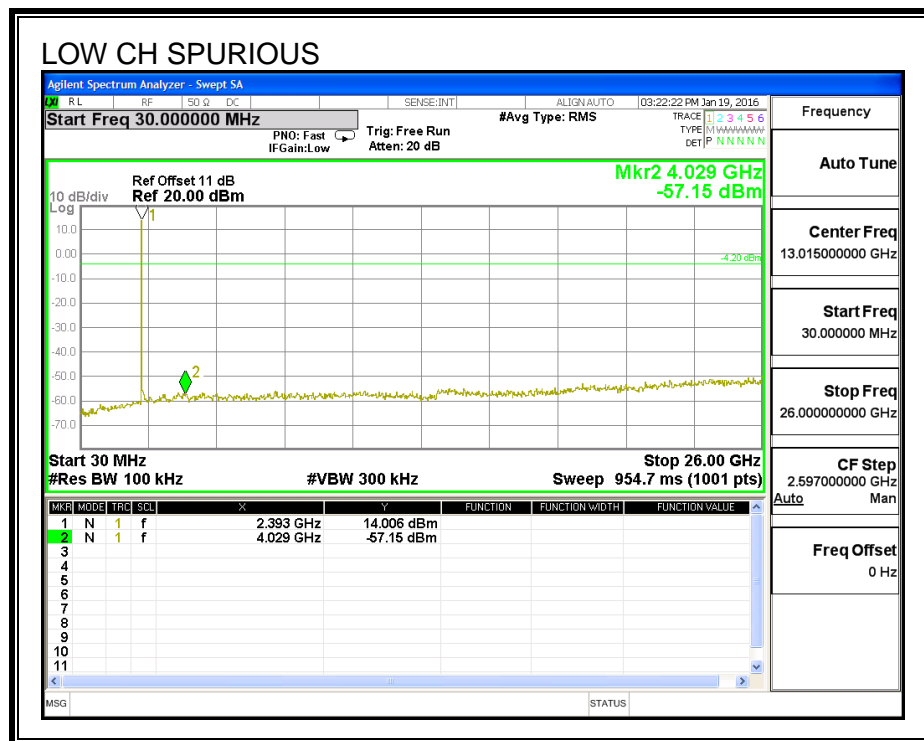
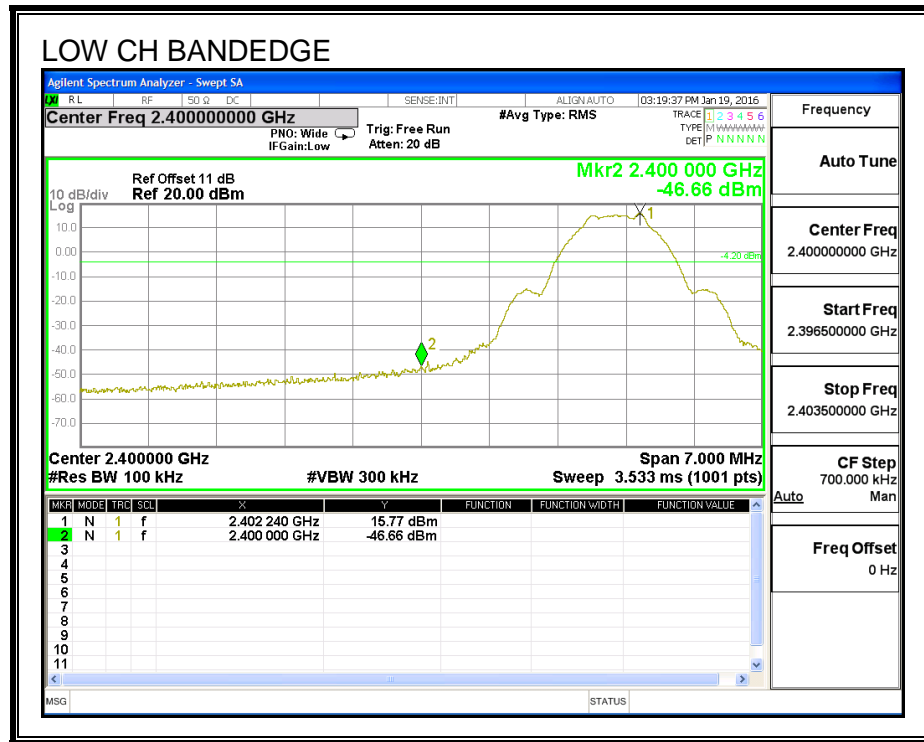
FCC §15.247 (d)

IC RSS-247 (5.5)

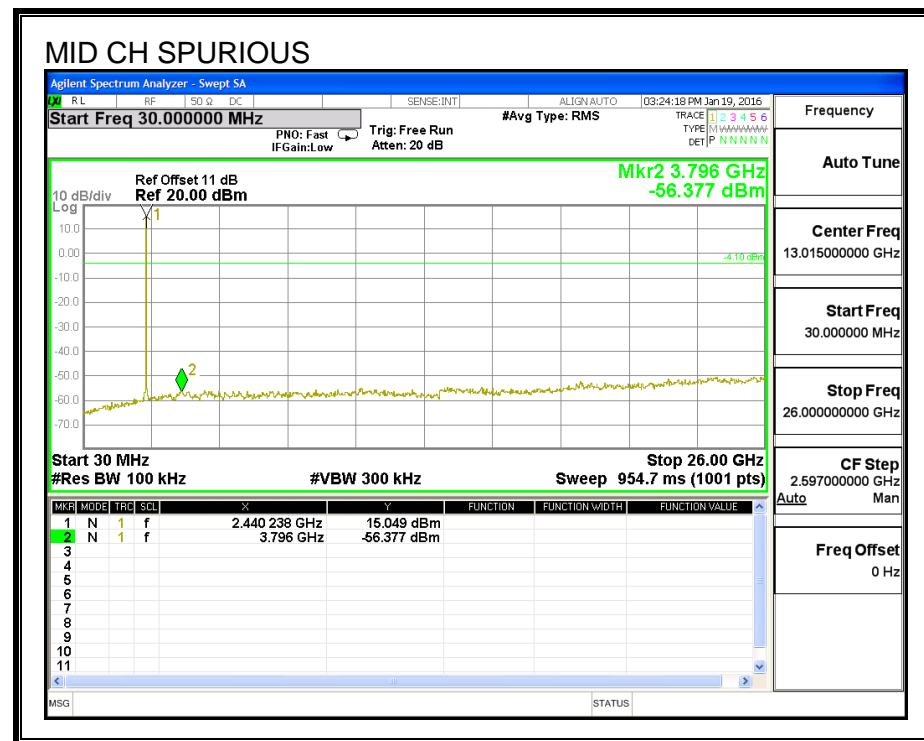
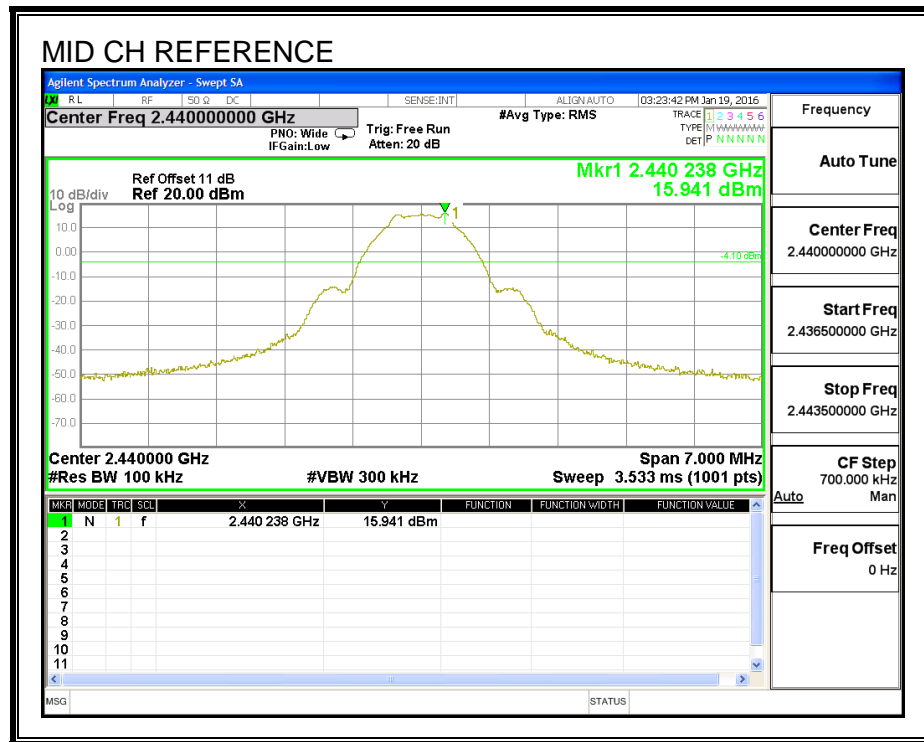
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

RESULTS

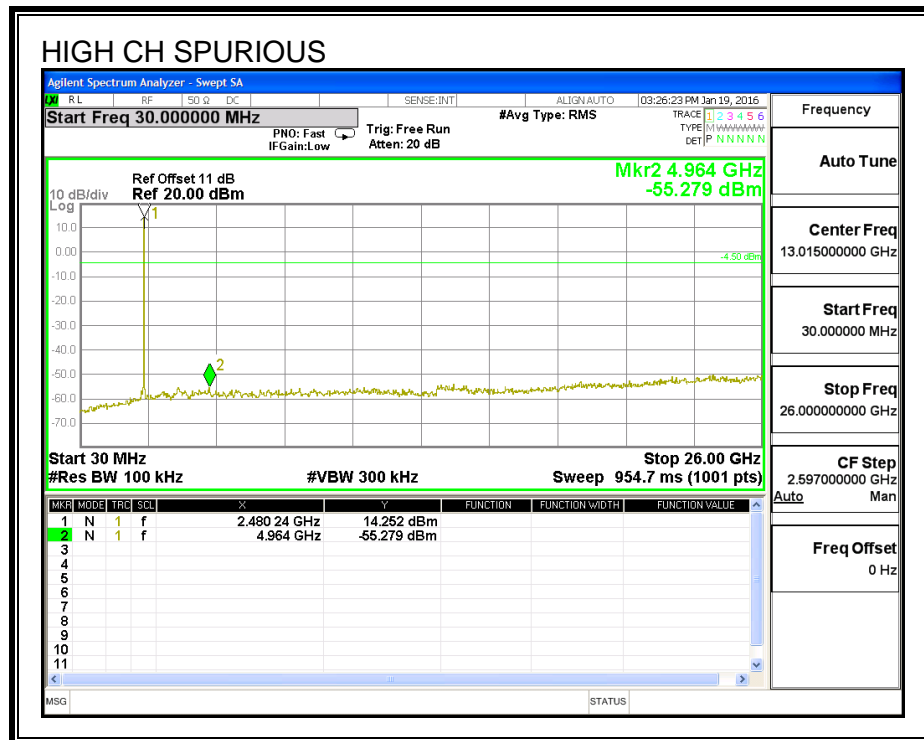
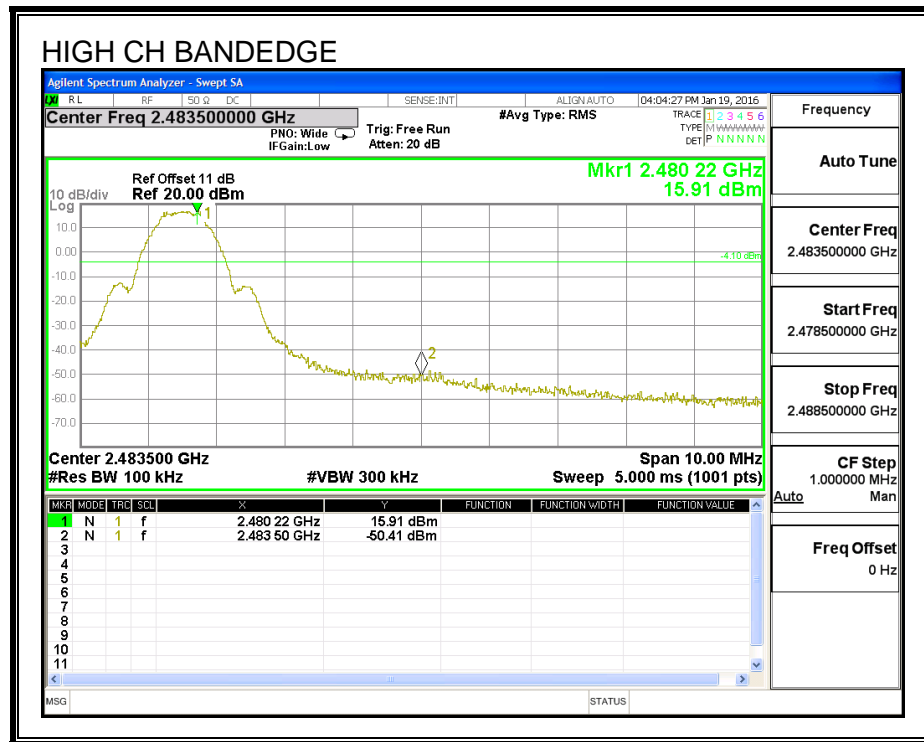
SPURIOUS EMISSIONS, LOW CHANNEL



SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



7.4. ANTENNA B LOW POWER MODE

7.4.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

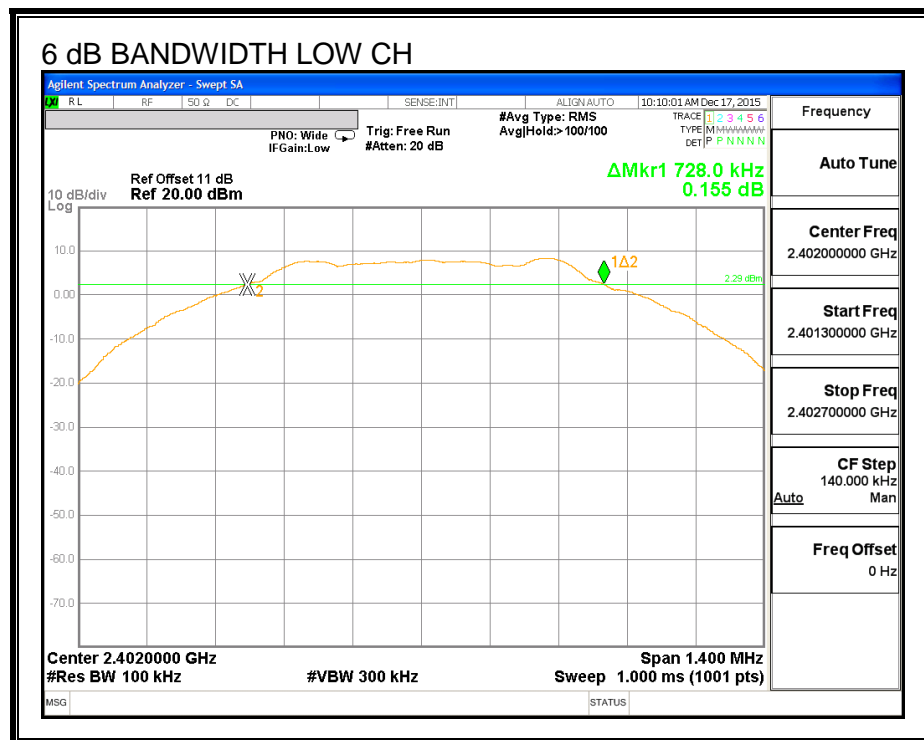
IC RSS-247 (5.2) (1)

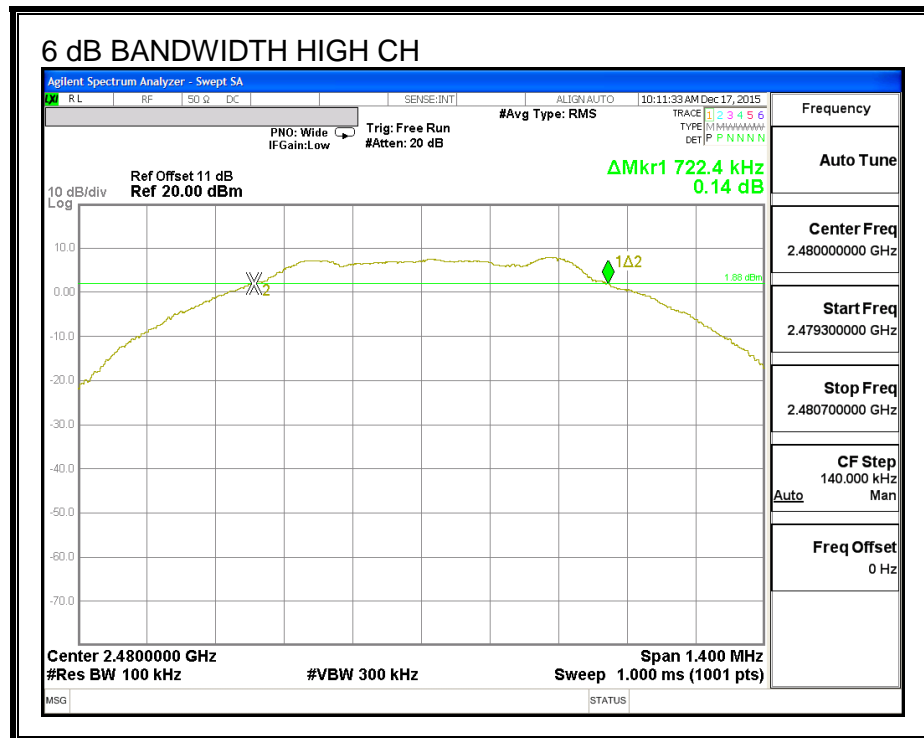
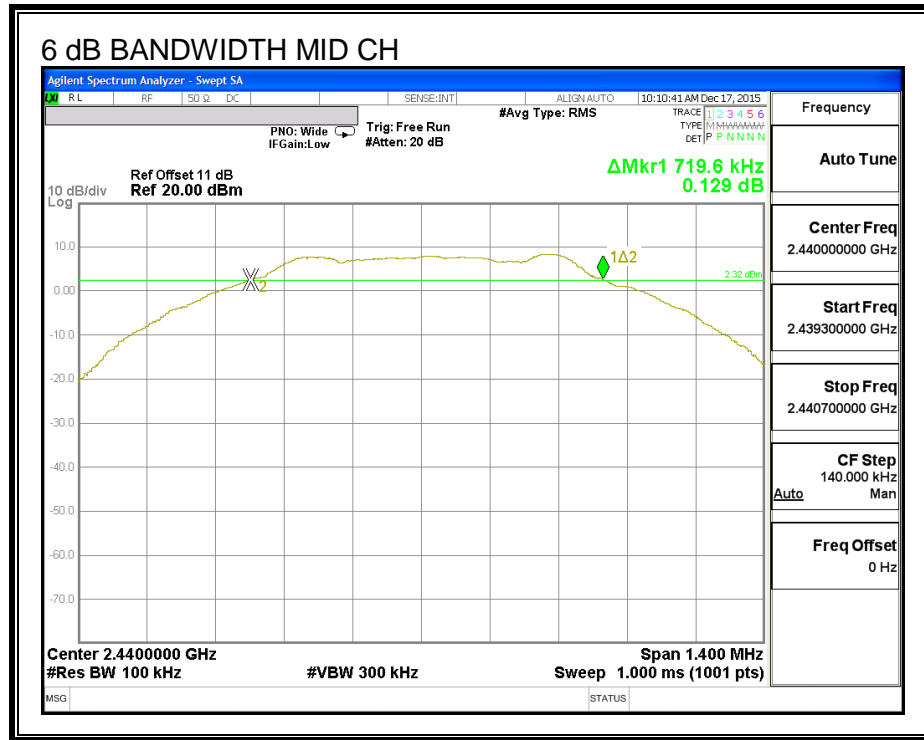
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.728	0.5
Middle	2440	0.720	0.5
High	2480	0.722	0.5

6 dB BANDWIDTH





7.4.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

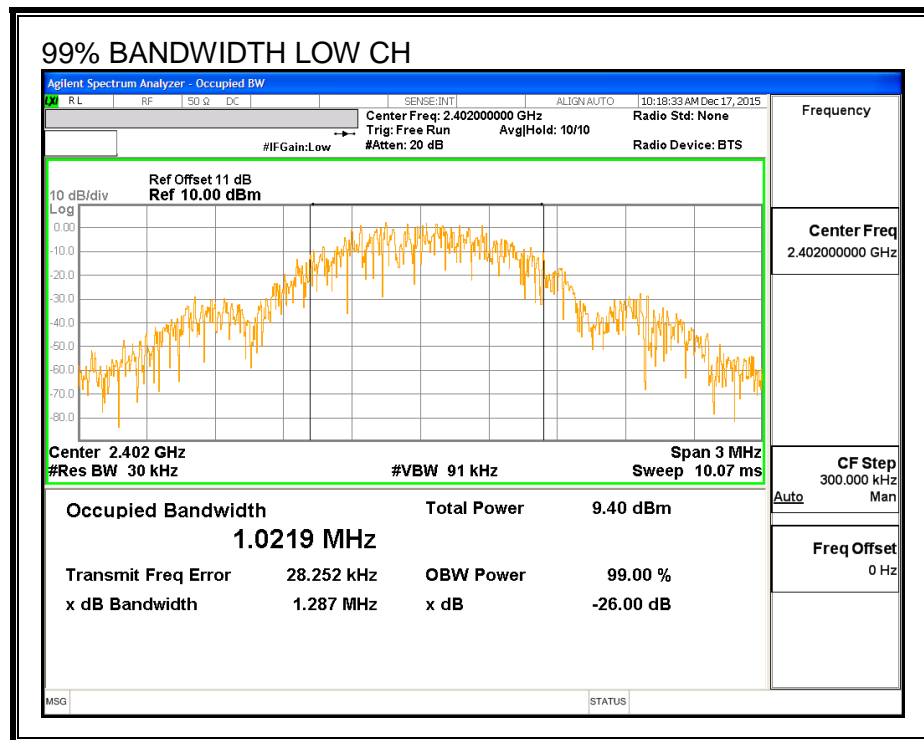
TEST PROCEDURE

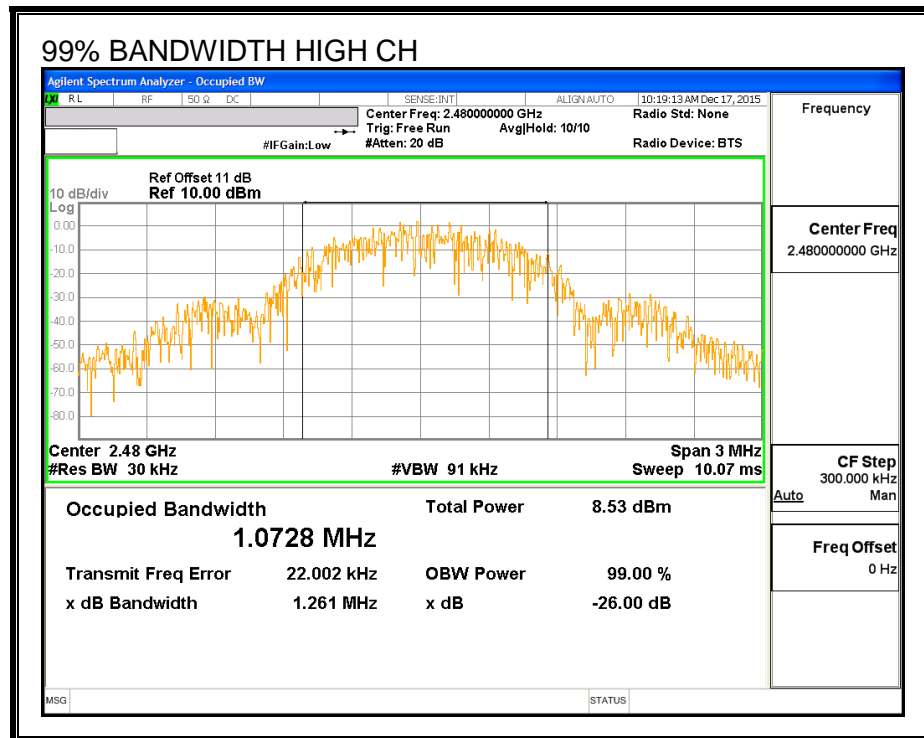
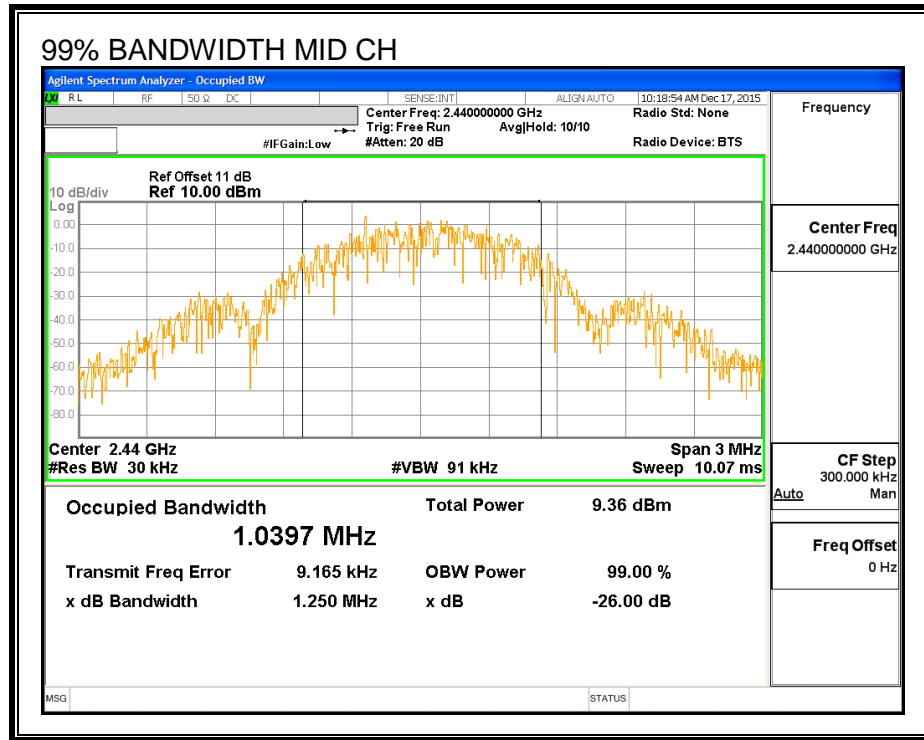
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0219
Middle	2440	1.0397
High	2480	1.0728

99% BANDWIDTH





7.4.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	8.91
Middle	2440	9.00
High	2480	8.71

7.4.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-247 (5.4) (4)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	9.28	30	-20.720
Middle	2440	9.22	30	-20.780
High	2480	8.92	30	-21.080

7.4.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

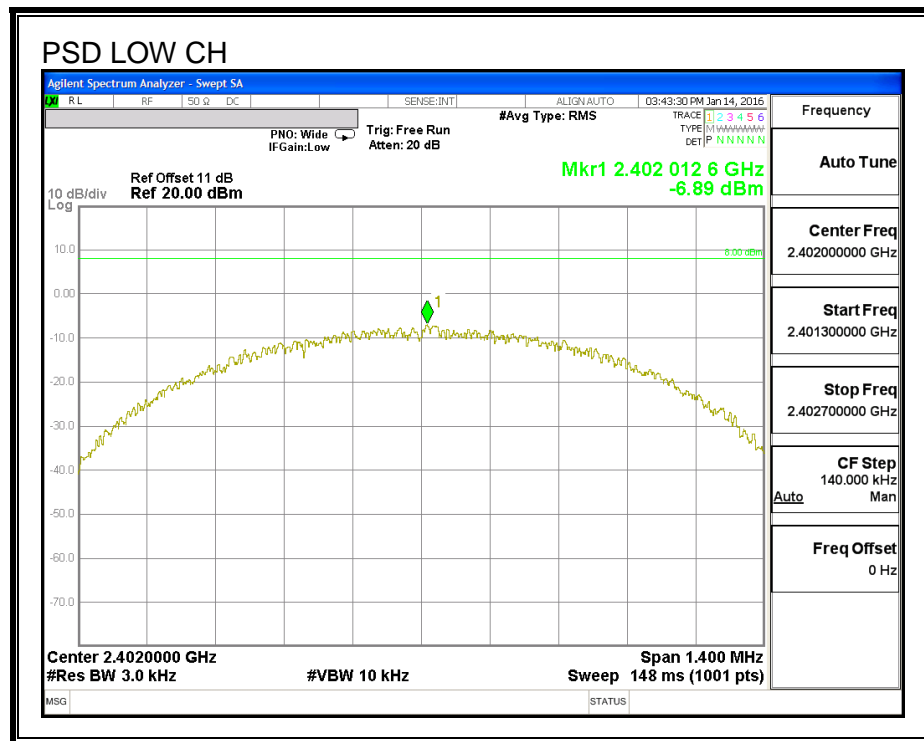
IC RSS-247 (5.2) (2)

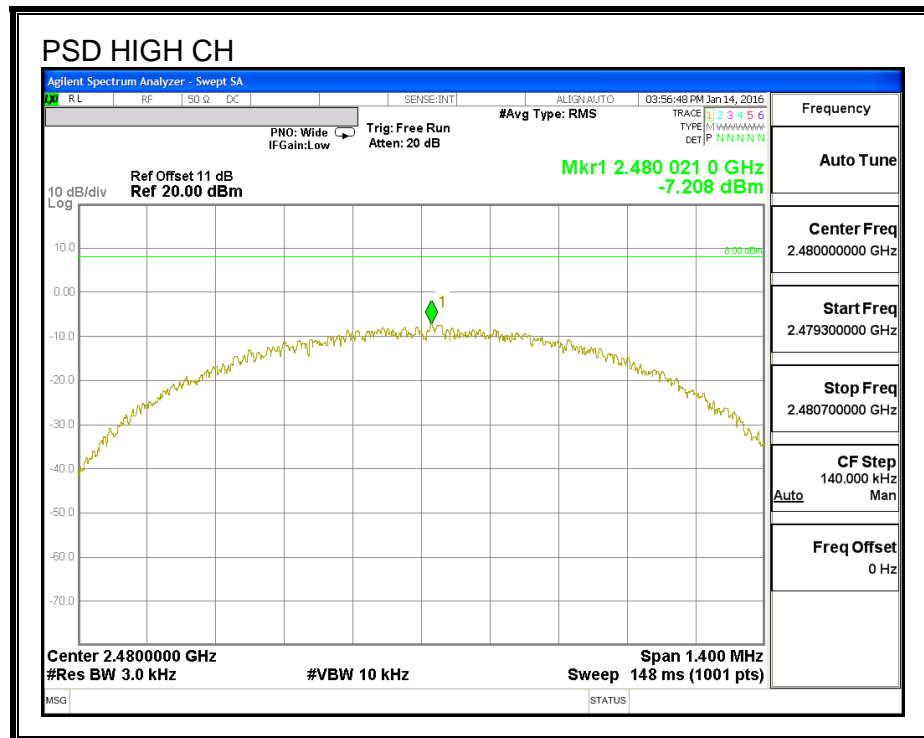
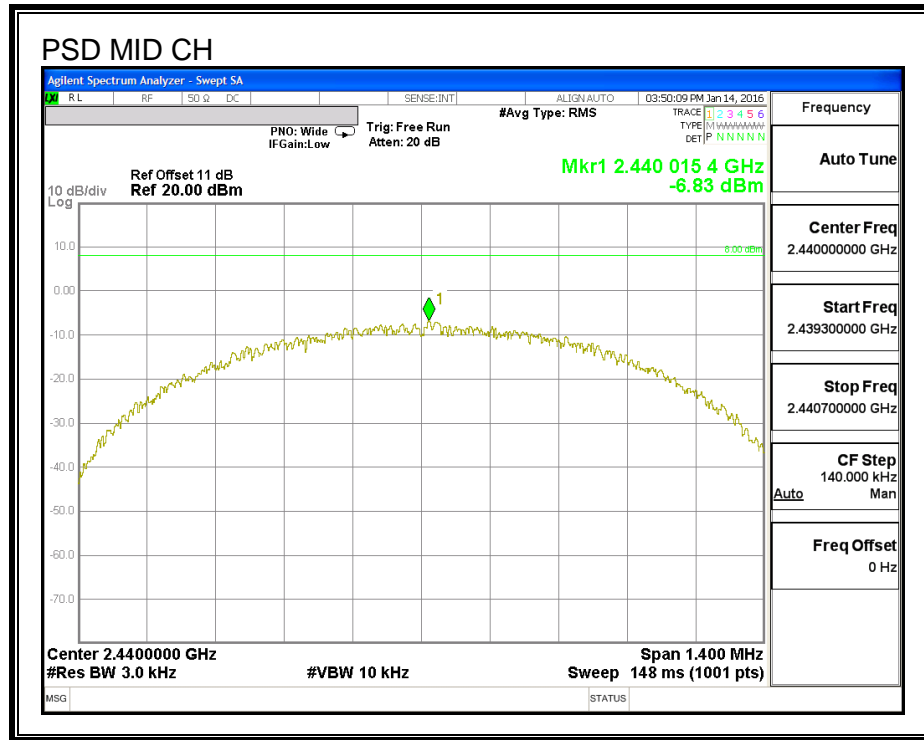
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-6.89	8	-14.89
Middle	2440	-6.83	8	-14.83
High	2480	-7.21	8	-15.21

POWER SPECTRAL DENSITY





7.4.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

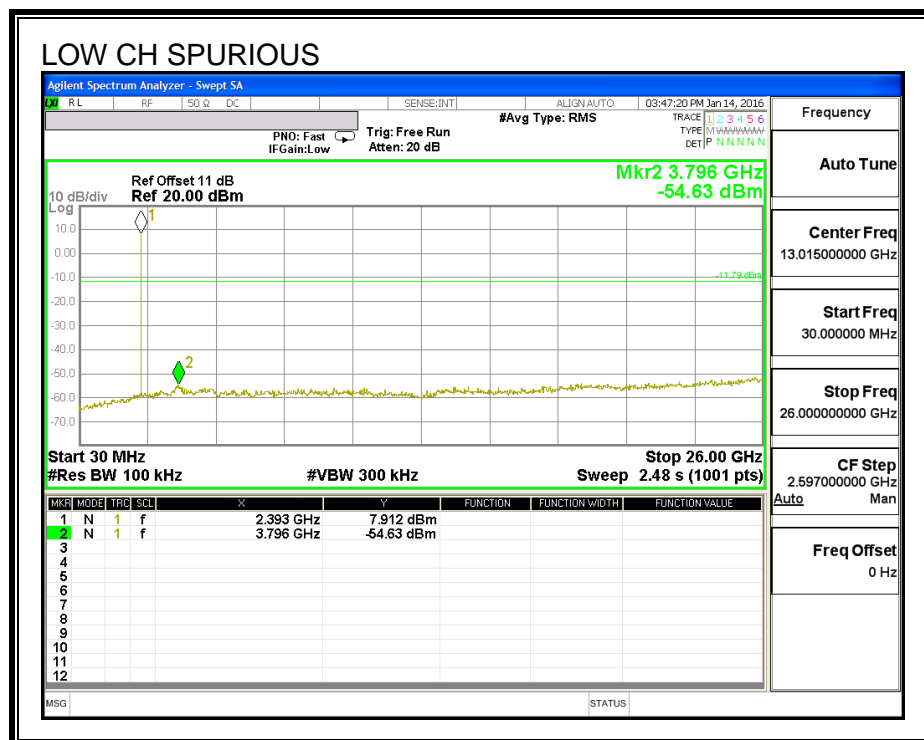
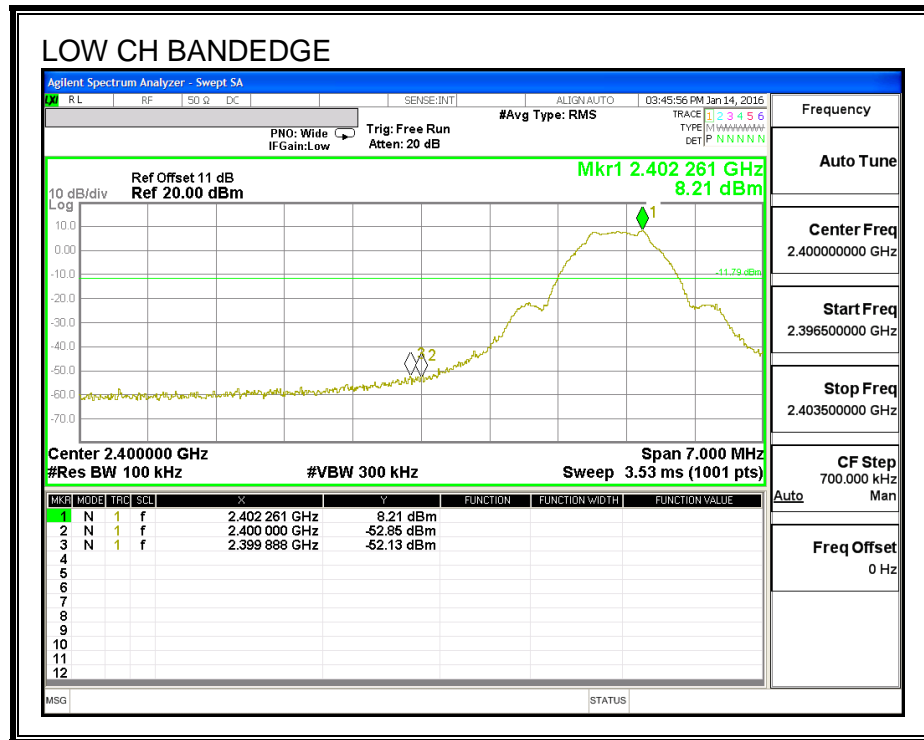
FCC §15.247 (d)

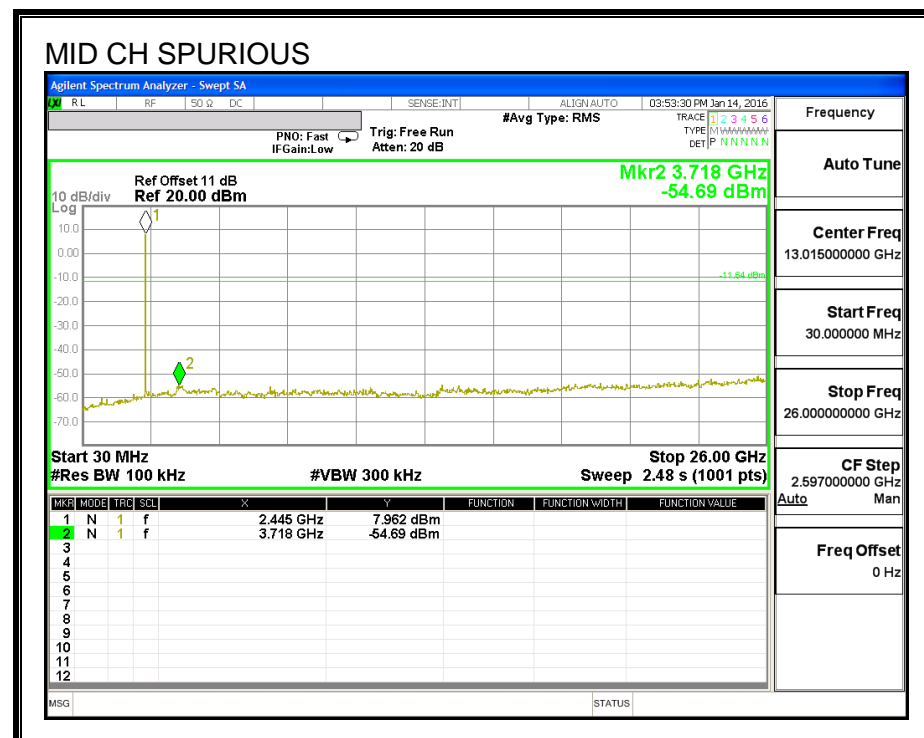
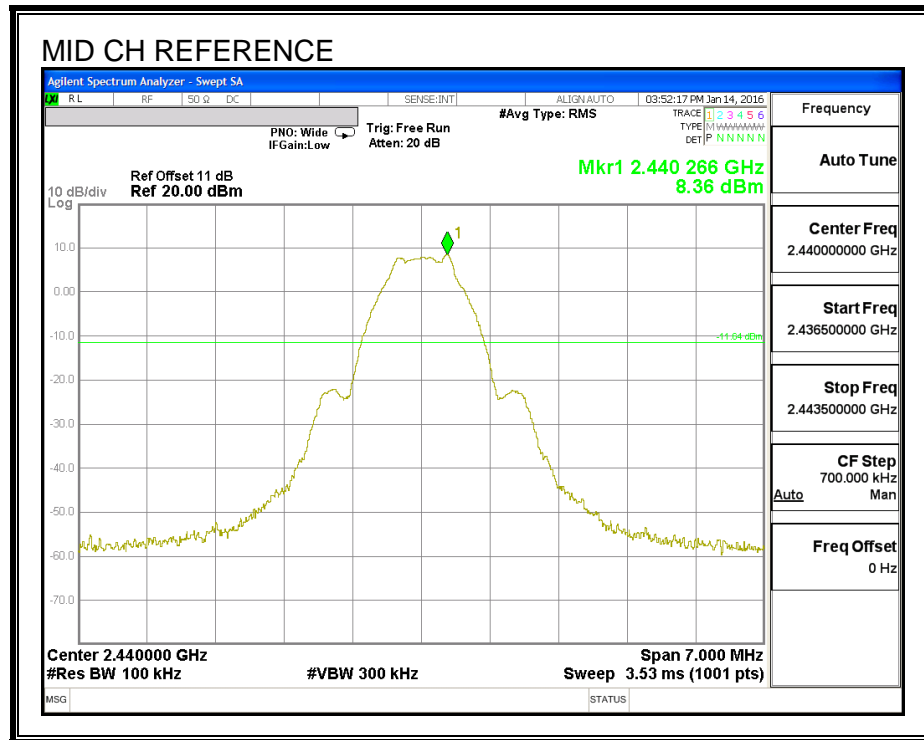
IC RSS-247 (5.5)

Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

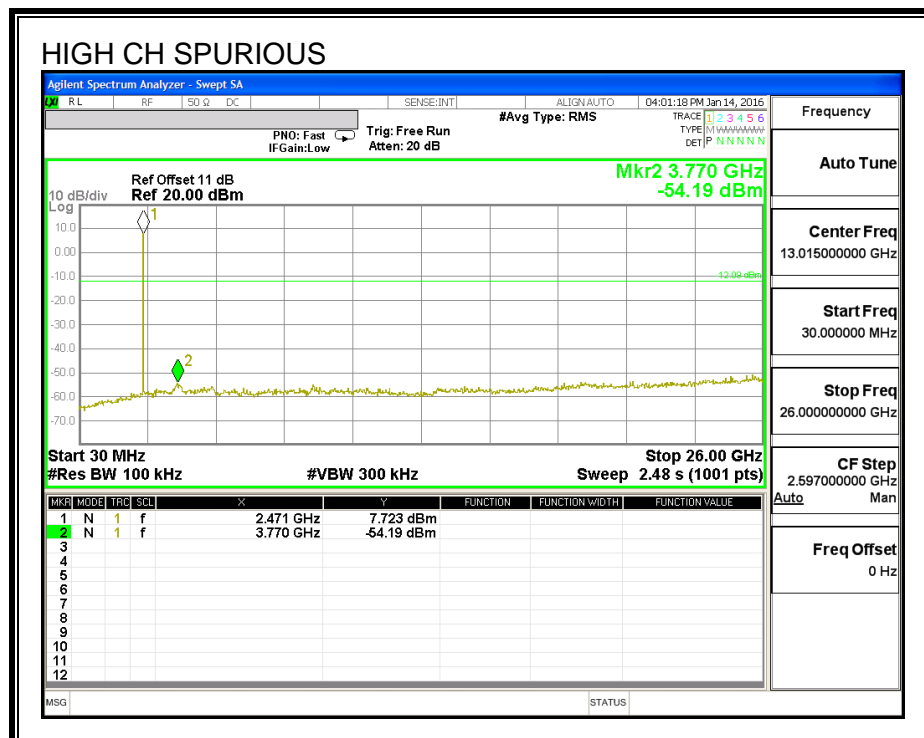
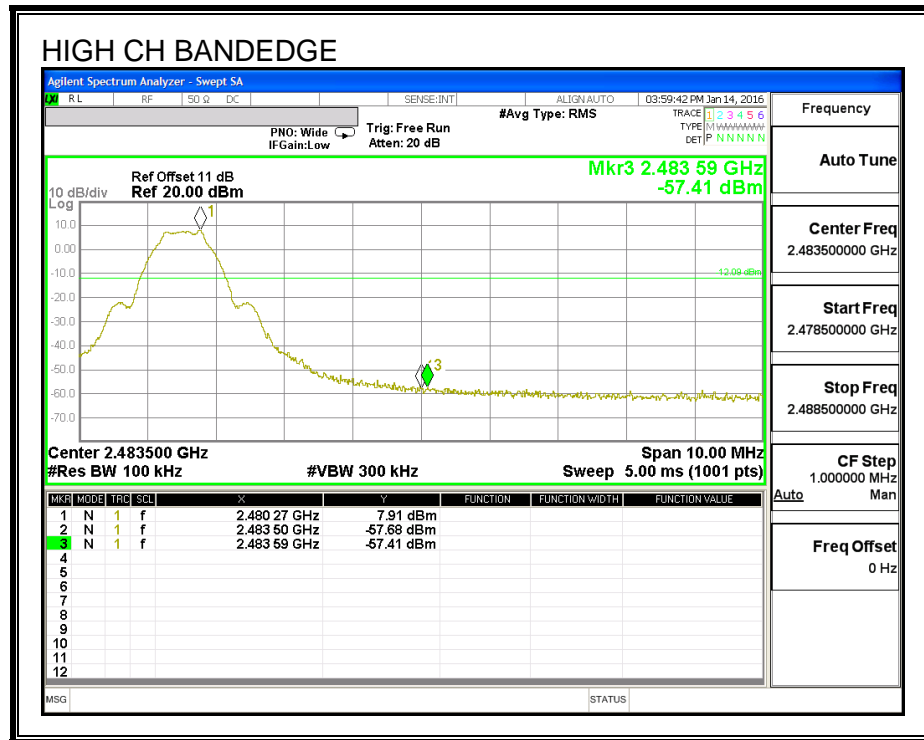
RESULTS

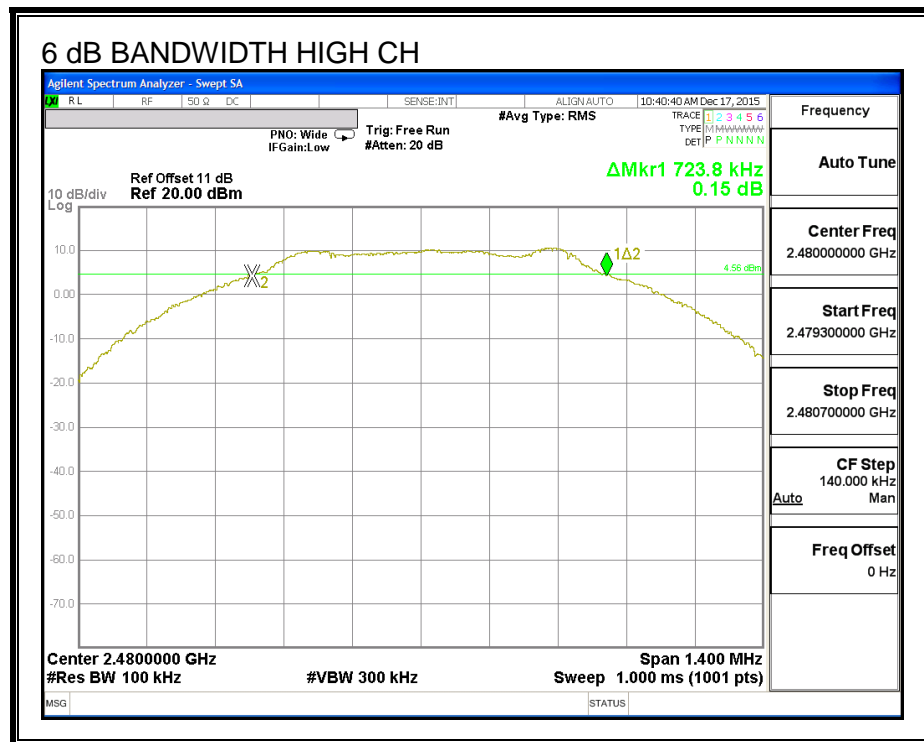
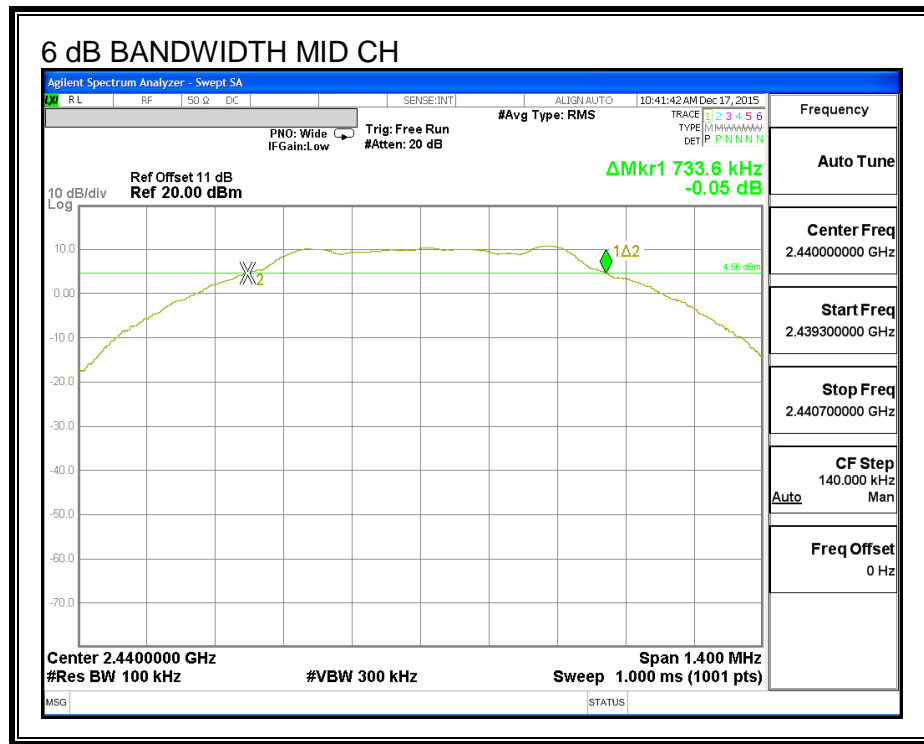
SPURIOUS EMISSIONS, LOW CHANNEL



SPURIOUS EMISSIONS, MID CHANNEL

SPURIOUS EMISSIONS, HIGH CHANNEL





7.5.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

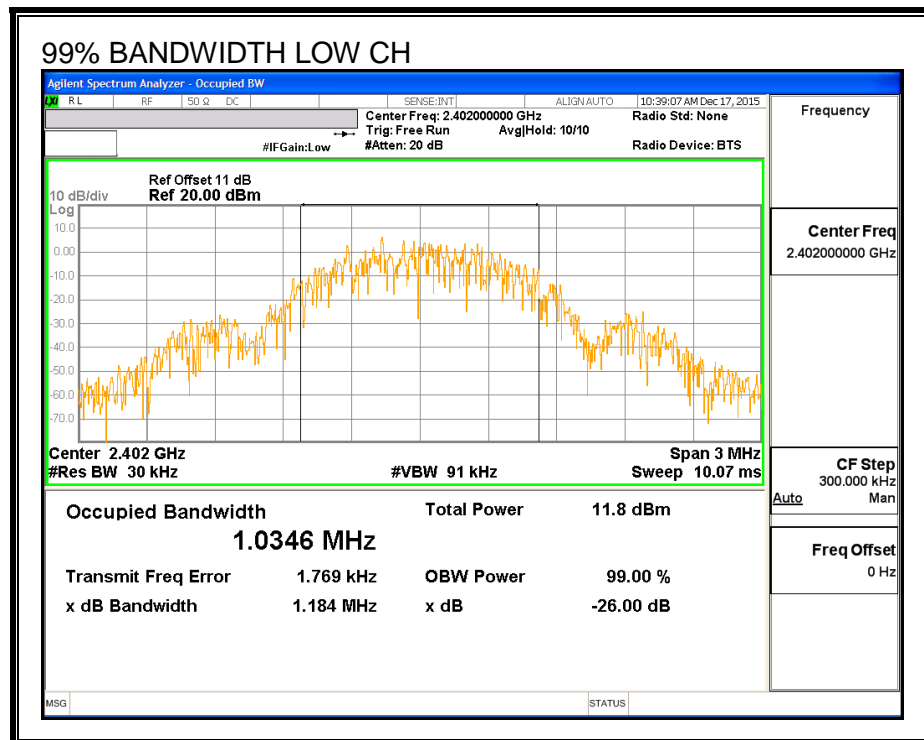
TEST PROCEDURE

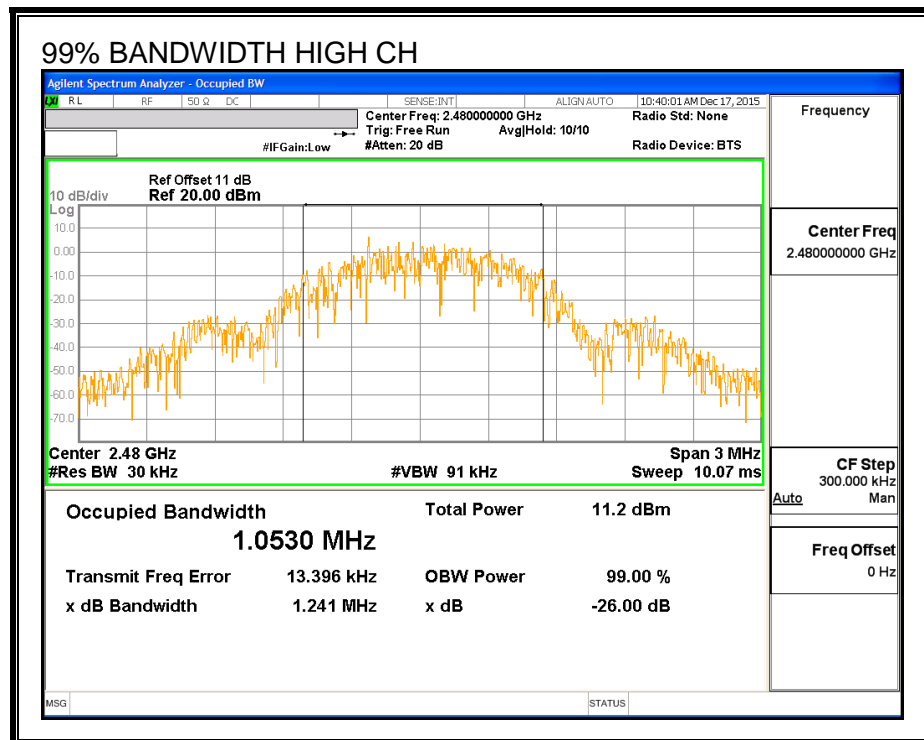
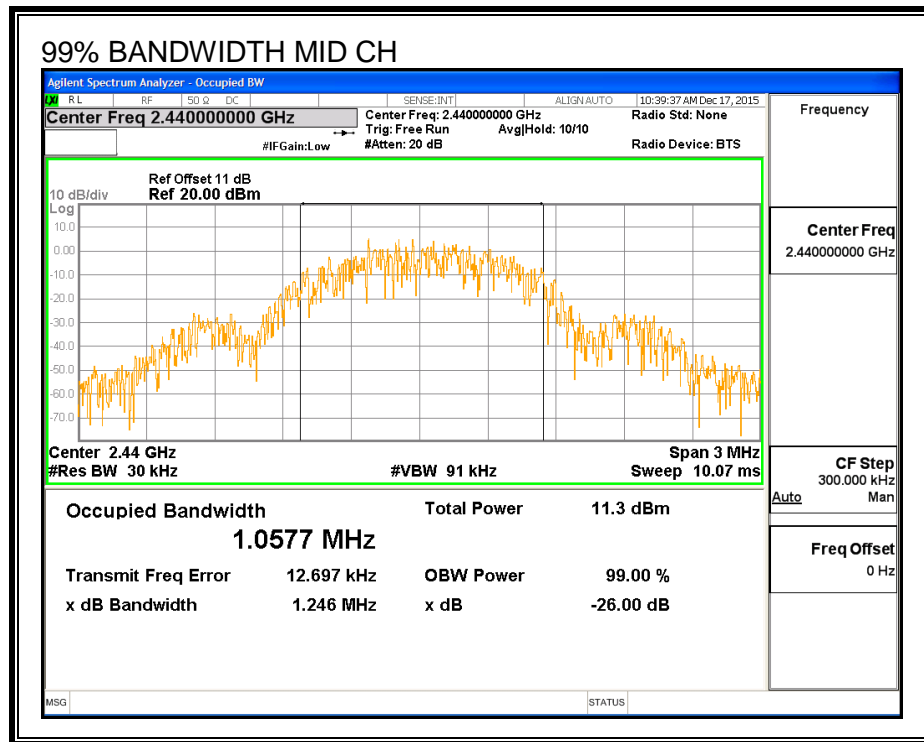
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0346
Middle	2440	1.0577
High	2480	1.0530

99% BANDWIDTH HIGH POWER





7.5.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	11.62
Middle	2440	11.94
High	2480	11.86

7.5.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-247 (5.4) (4)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	11.89	30	-18.110
Middle	2440	12.23	30	-17.770
High	2480	12.15	30	-17.850

7.5.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

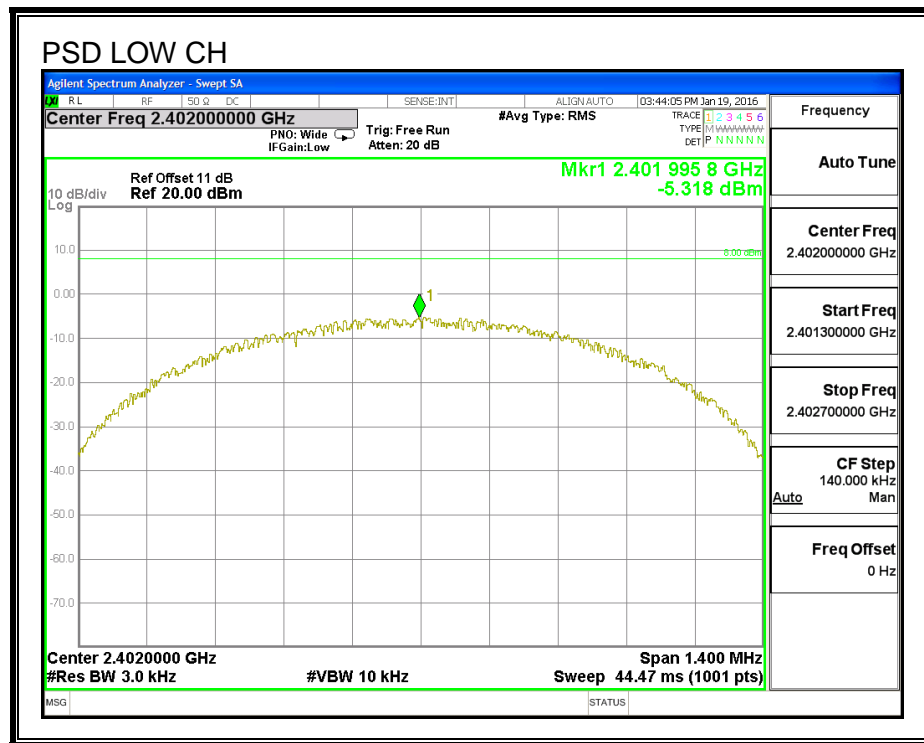
IC RSS-247 (5.2) (2)

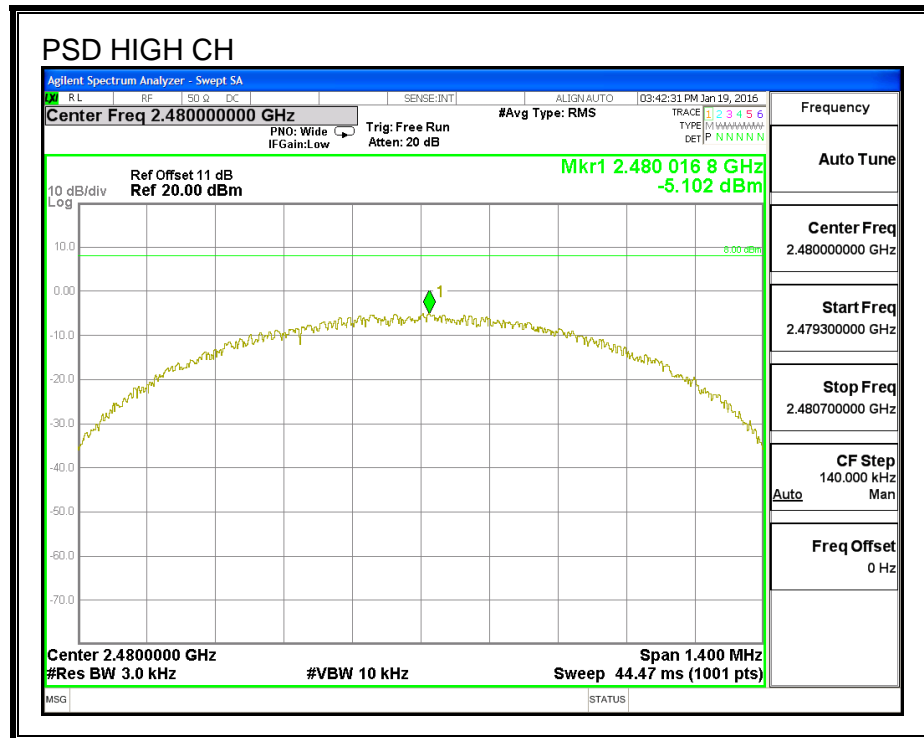
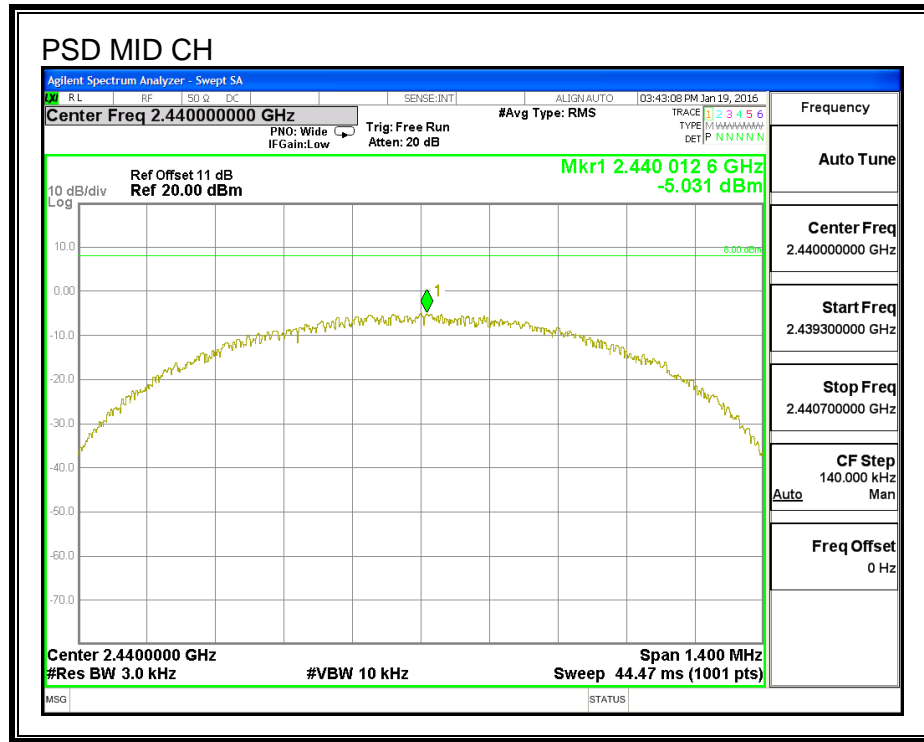
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-5.32	8	-13.32
Middle	2440	-5.03	8	-13.03
High	2480	-5.10	8	-13.10

POWER SPECTRAL DENSITY





7.5.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

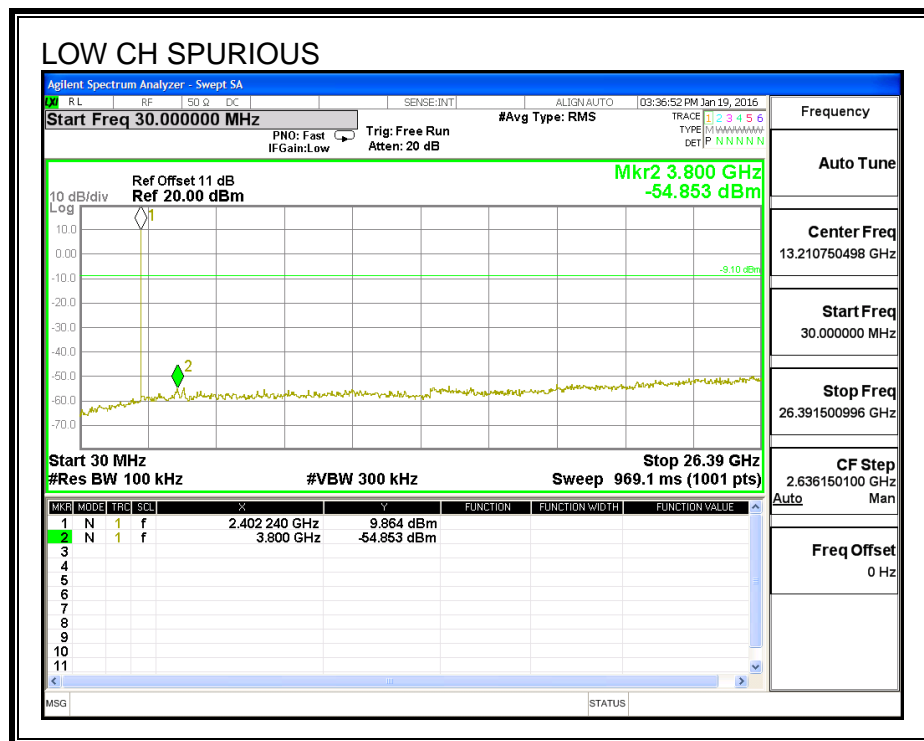
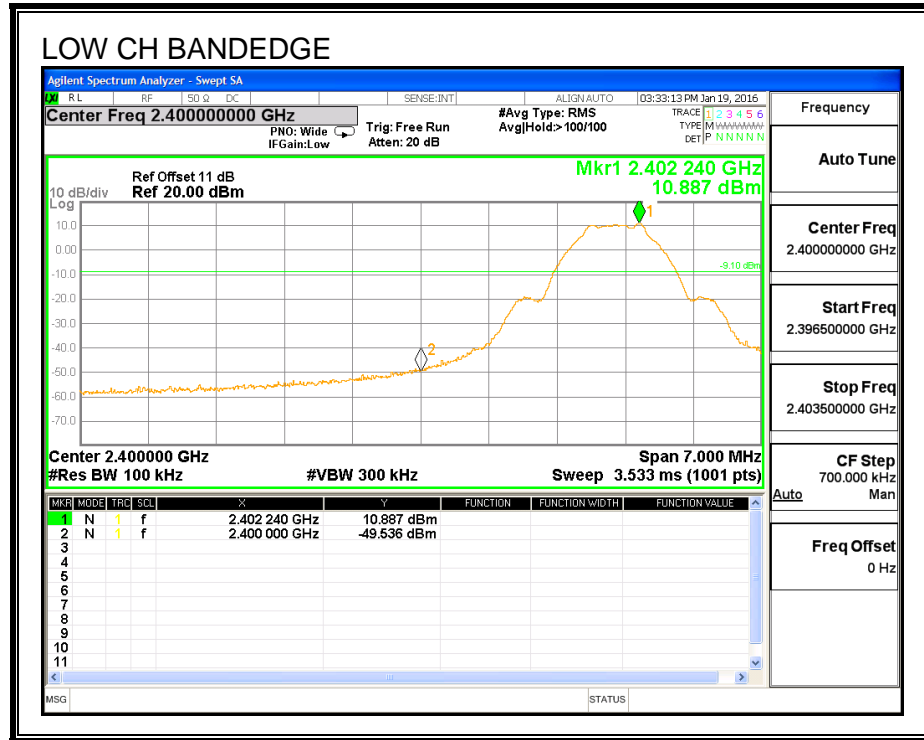
FCC §15.247 (d)

IC RSS-247 (5.5)

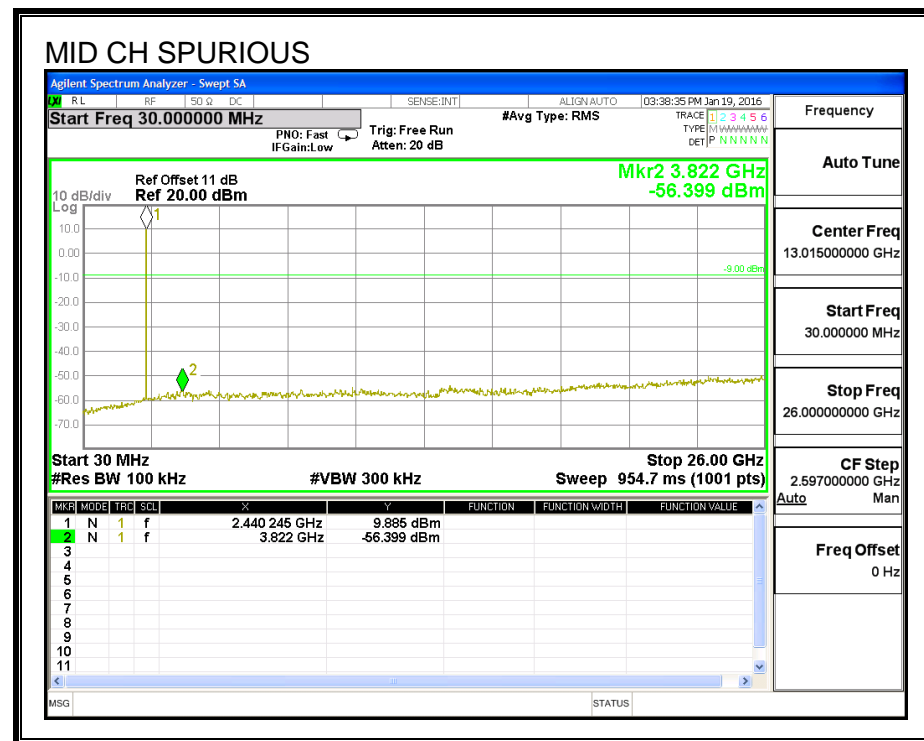
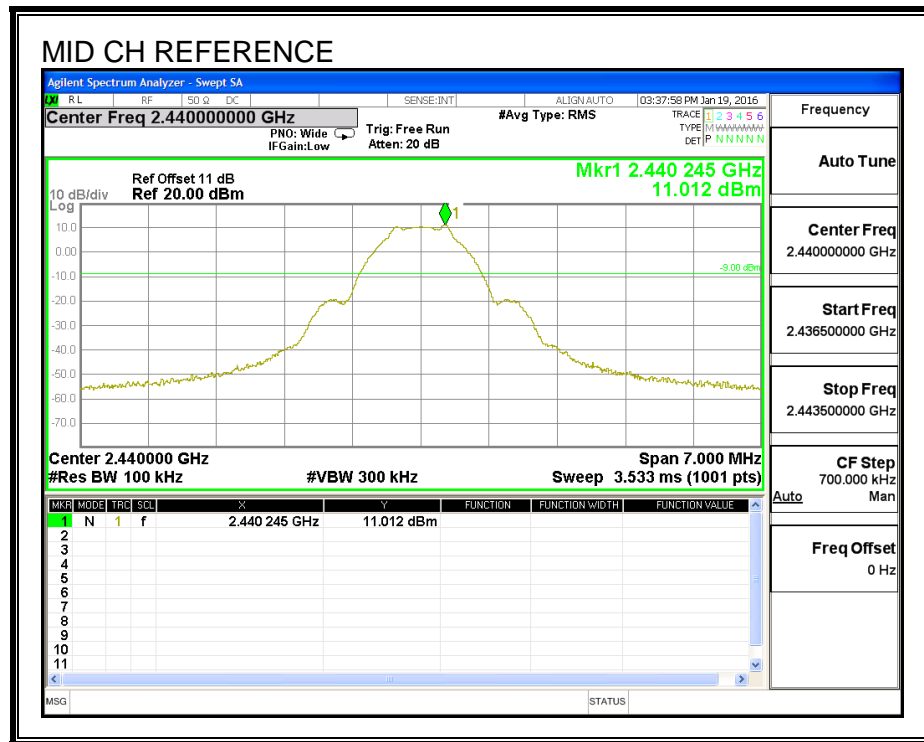
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

RESULTS

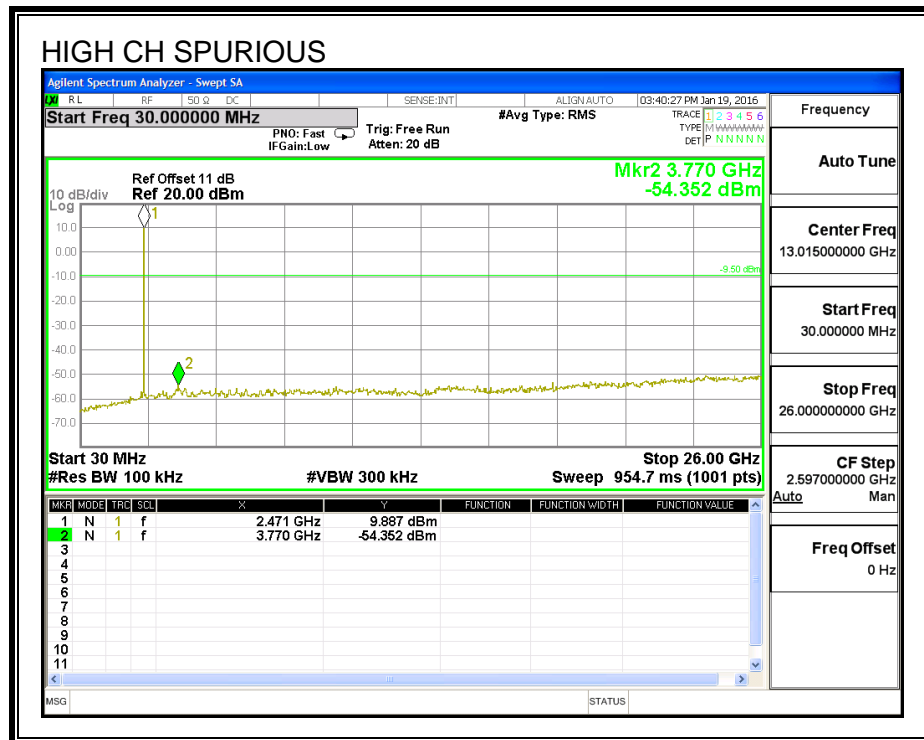
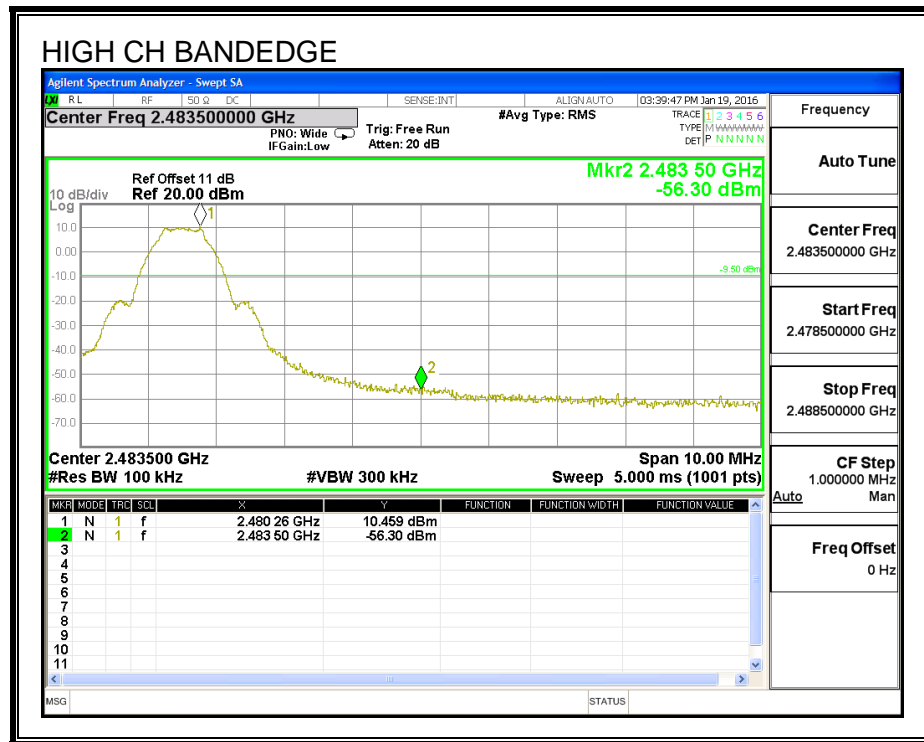
SPURIOUS EMISSIONS, LOW CHANNEL



SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



7.6. ANTENNA D LOW POWER MODE

7.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

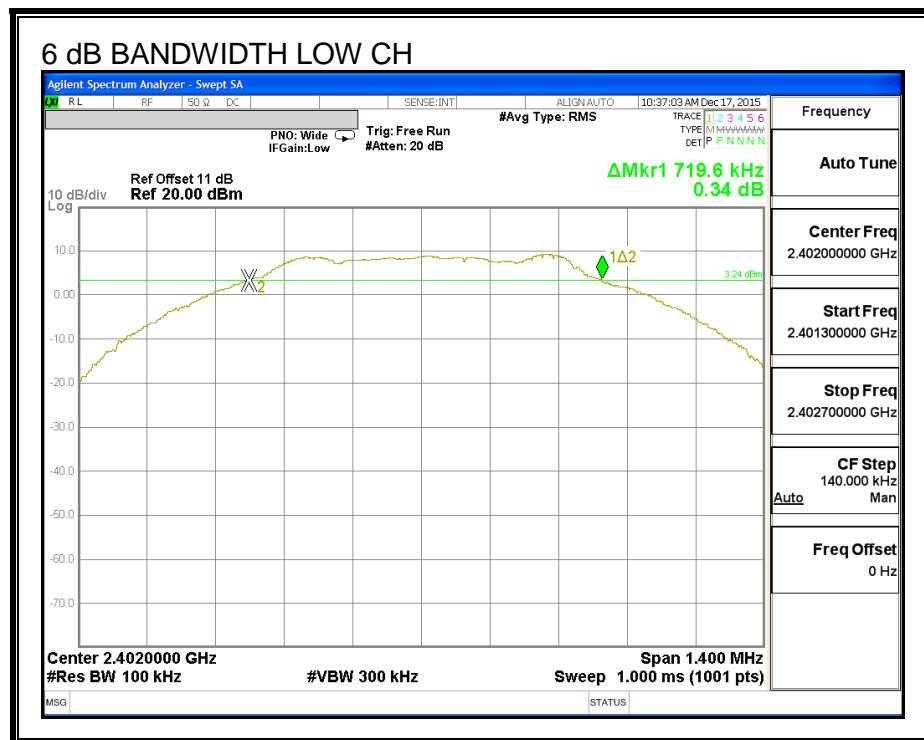
IC RSS-247 (5.2) (1)

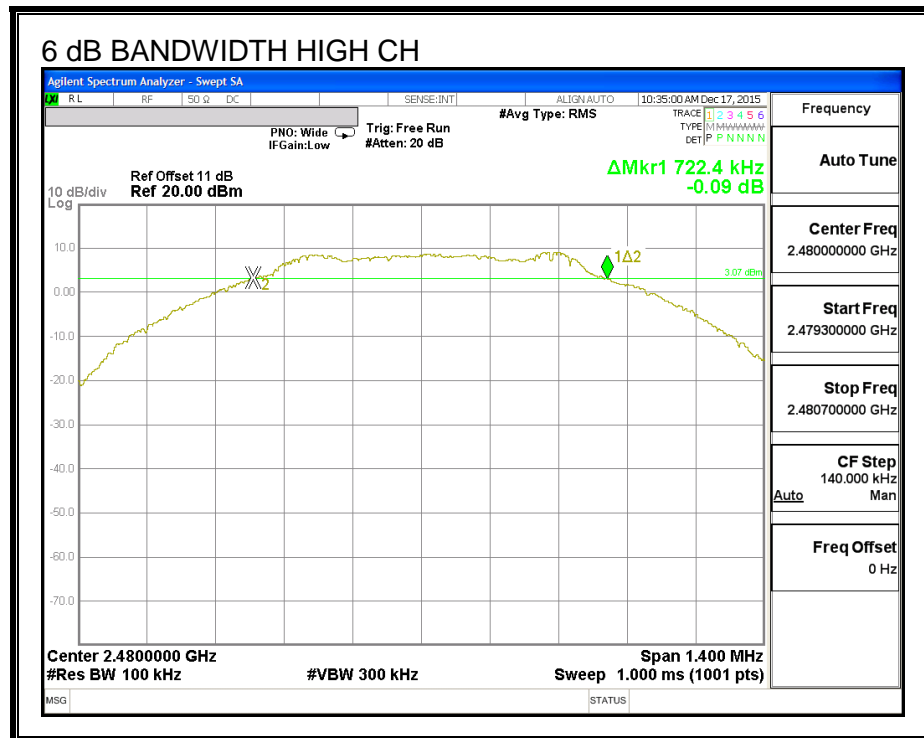
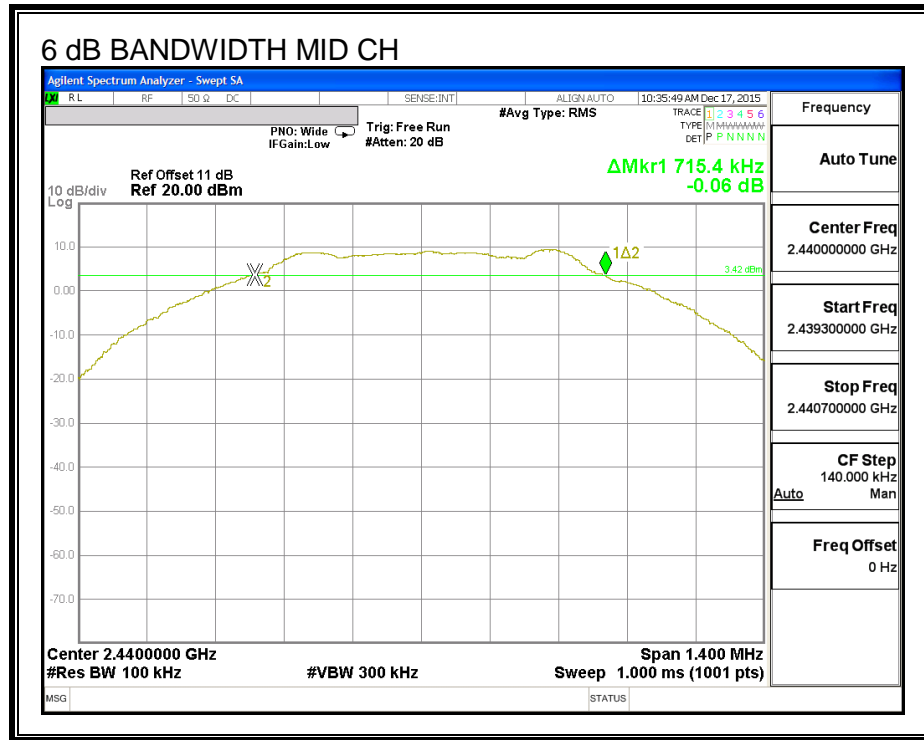
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.720	0.5
Middle	2440	0.715	0.5
High	2480	0.722	0.5

6 dB BANDWIDTH





7.6.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

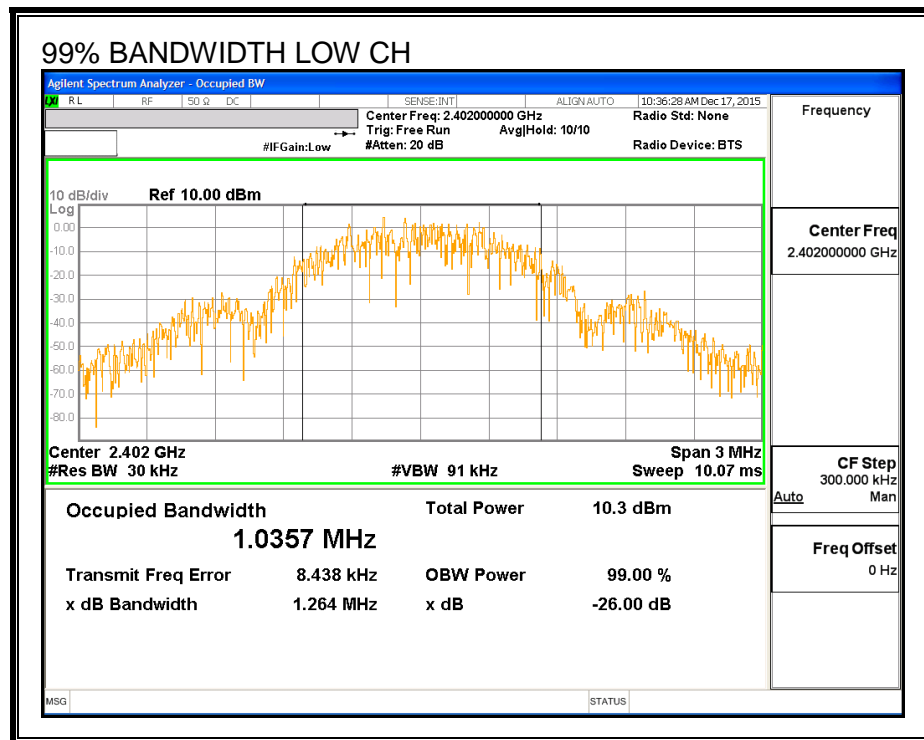
TEST PROCEDURE

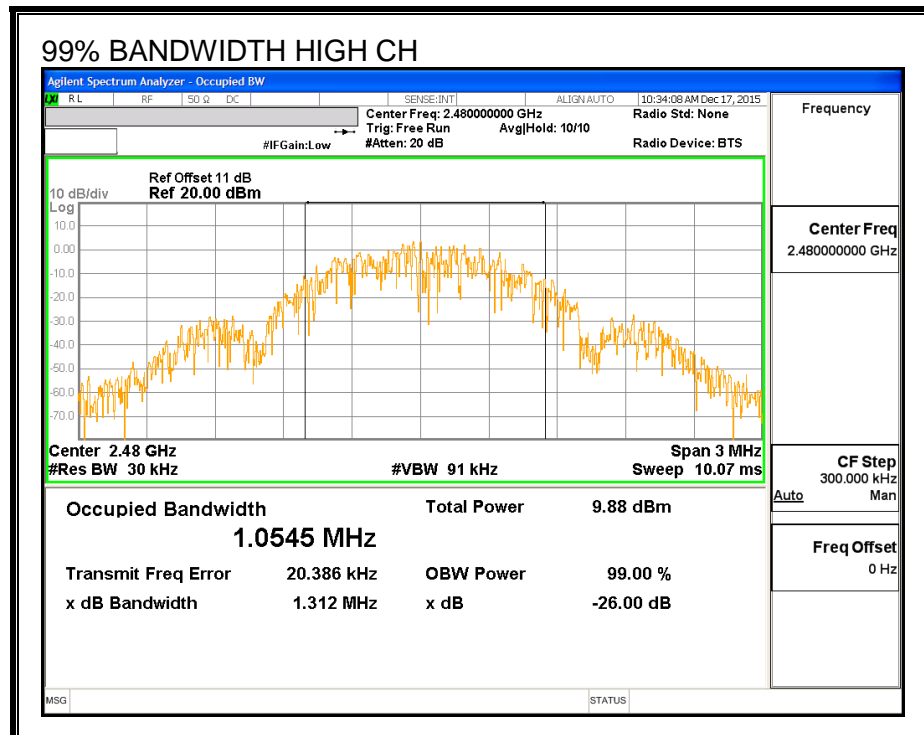
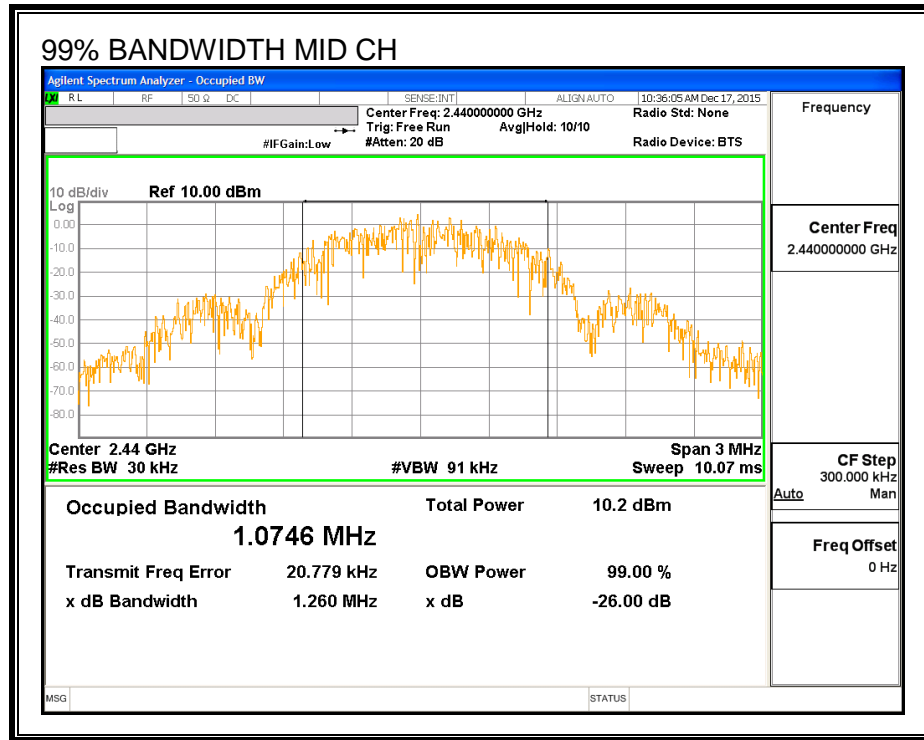
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0357
Middle	2440	1.0746
High	2480	1.0545

99% BANDWIDTH HIGH POWER





7.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	4.84
Middle	2440	4.79
High	2480	4.95

7.6.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-247 (5.4) (4)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	5.11	30	-24.890
Middle	2440	5.08	30	-24.920
High	2480	5.23	30	-24.770

7.6.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

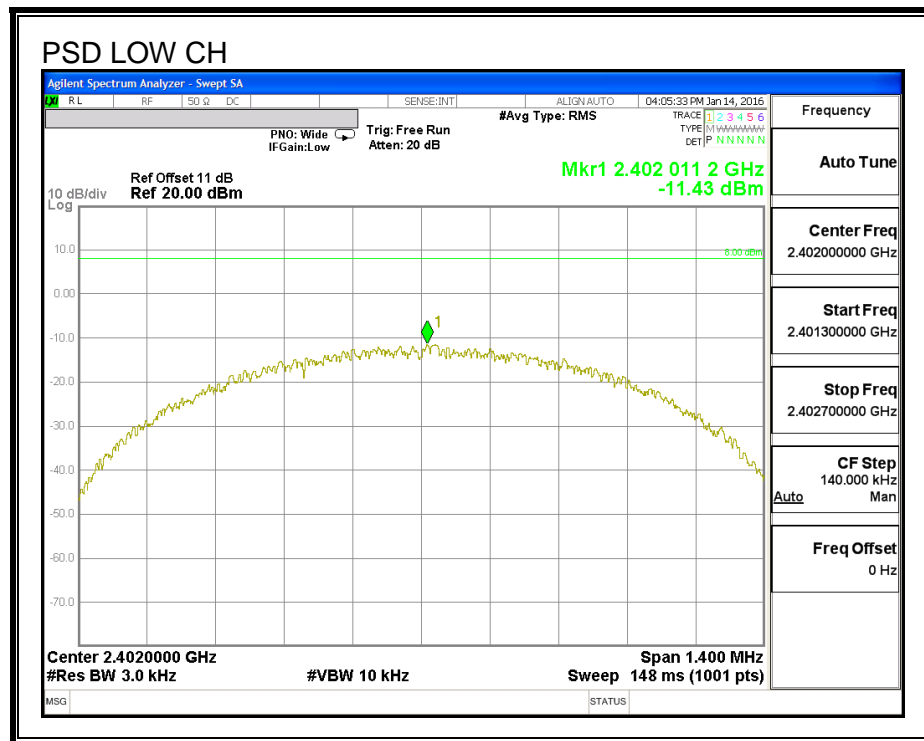
IC RSS-247 (5.2) (2)

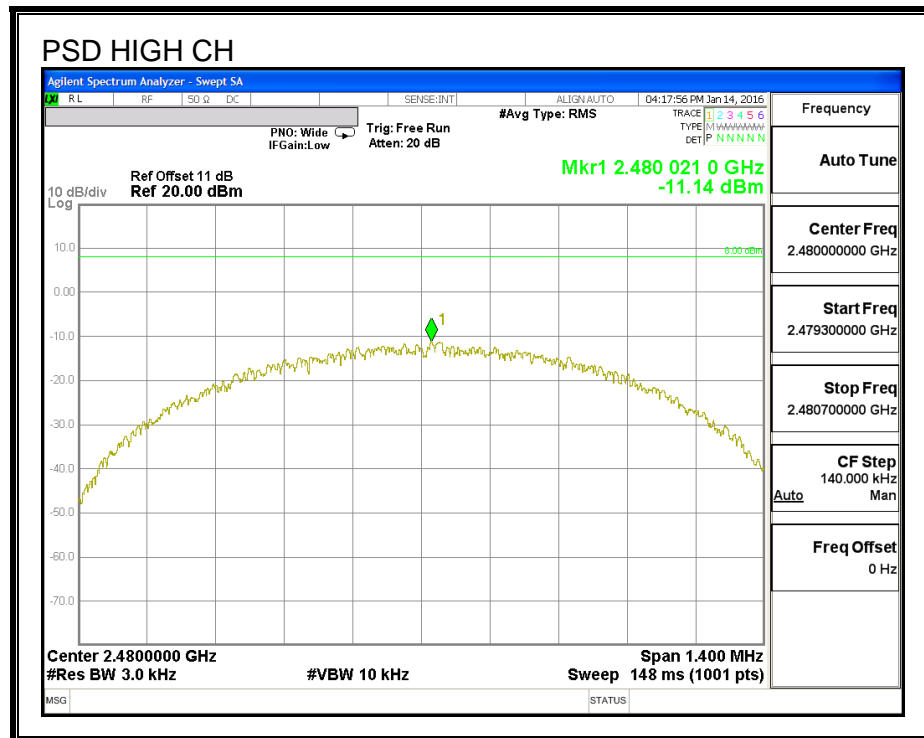
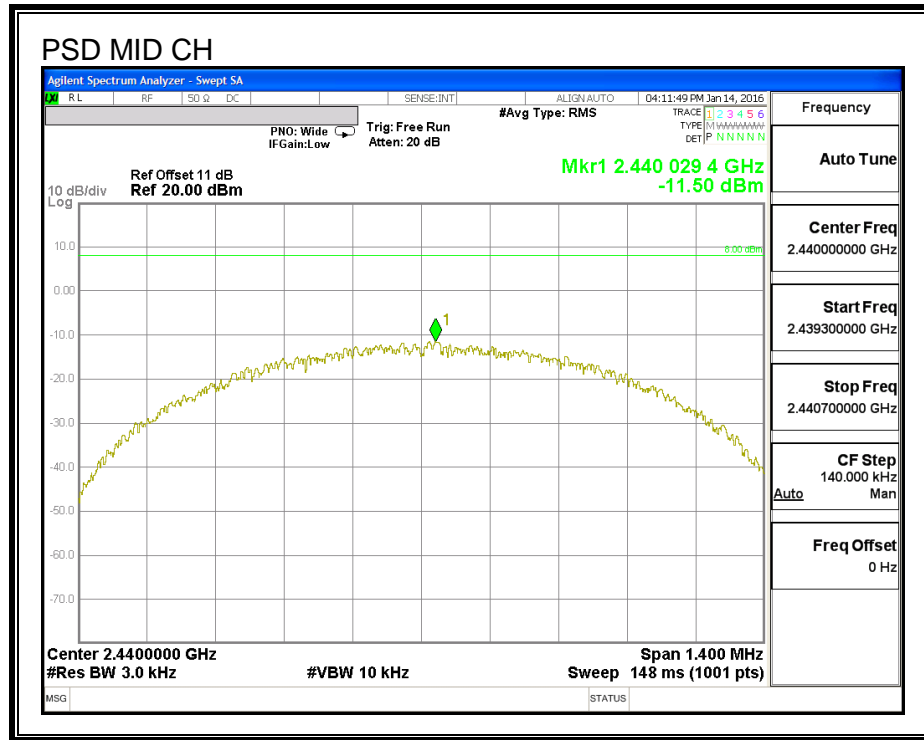
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-11.43	8	-19.43
Middle	2440	-11.50	8	-19.50
High	2480	-11.14	8	-19.14

POWER SPECTRAL DENSITY





7.6.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

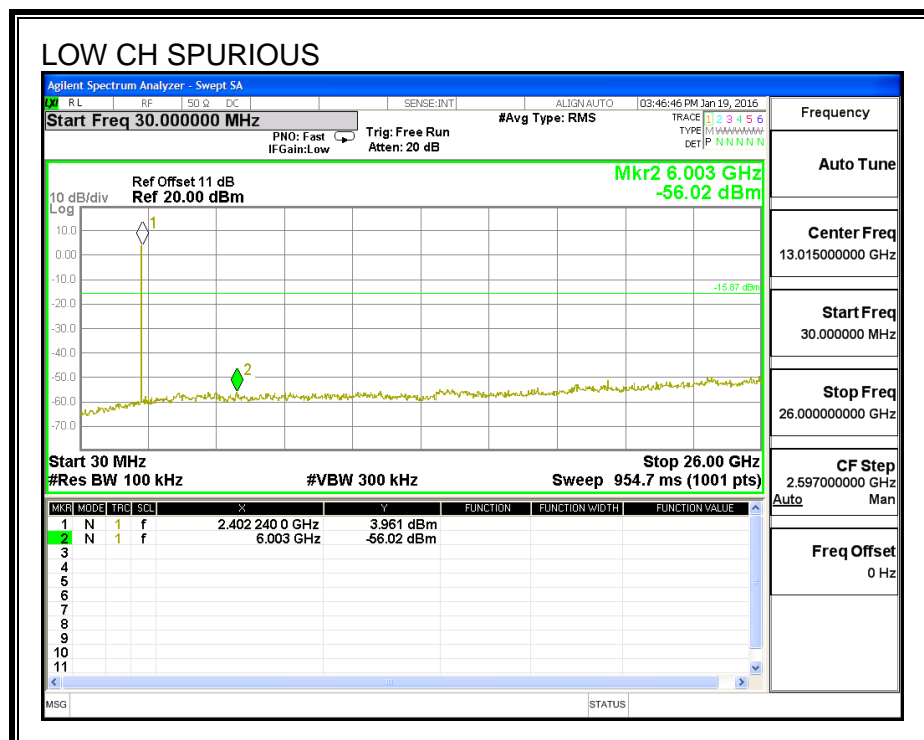
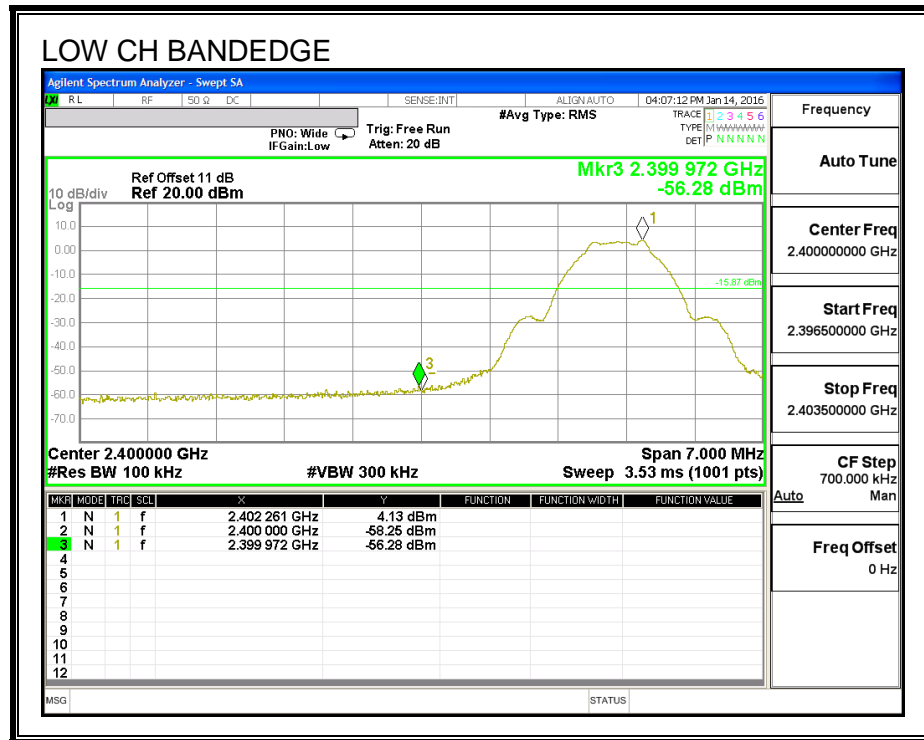
FCC §15.247 (d)

IC RSS-247 (5.5)

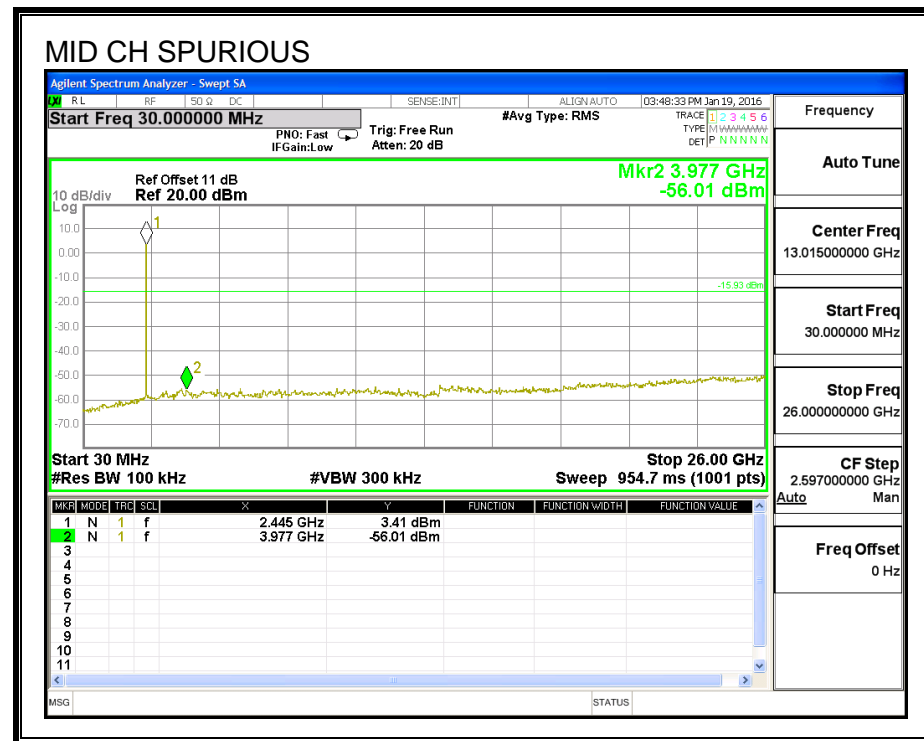
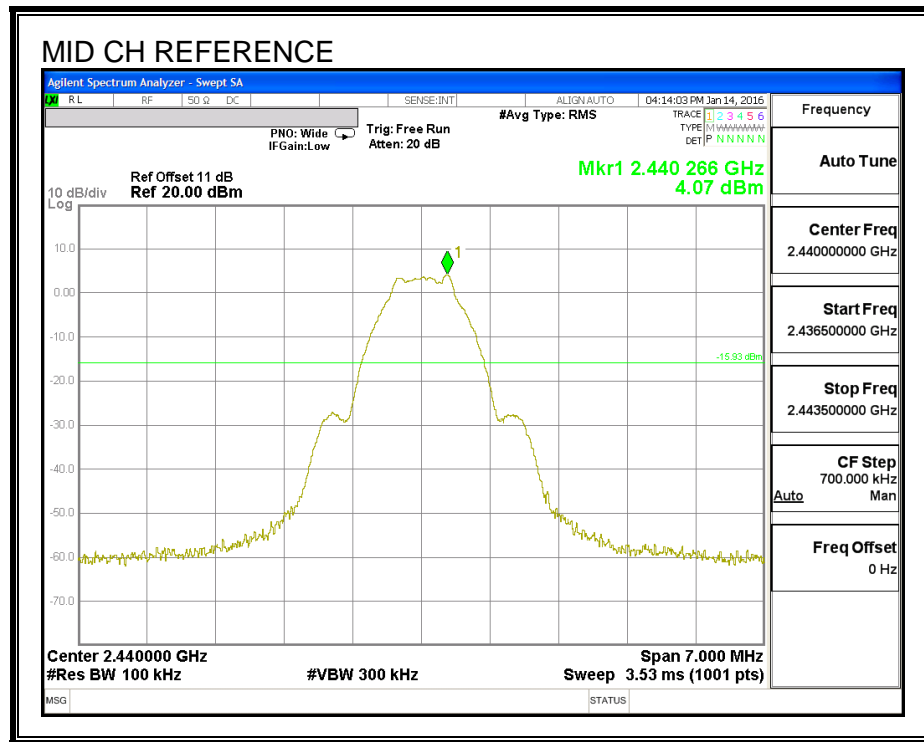
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

RESULTS

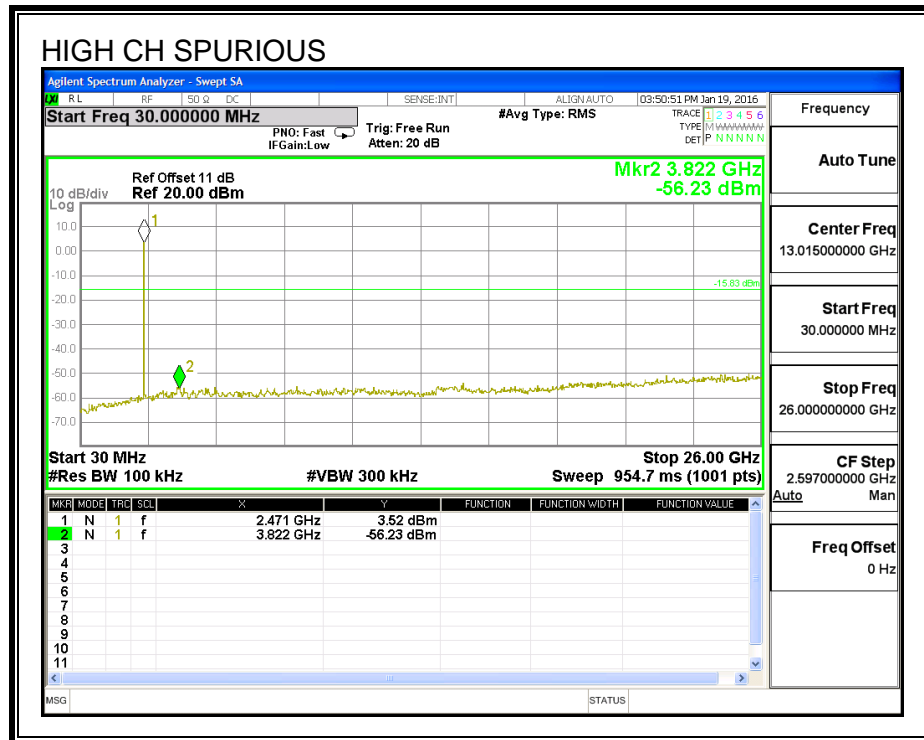
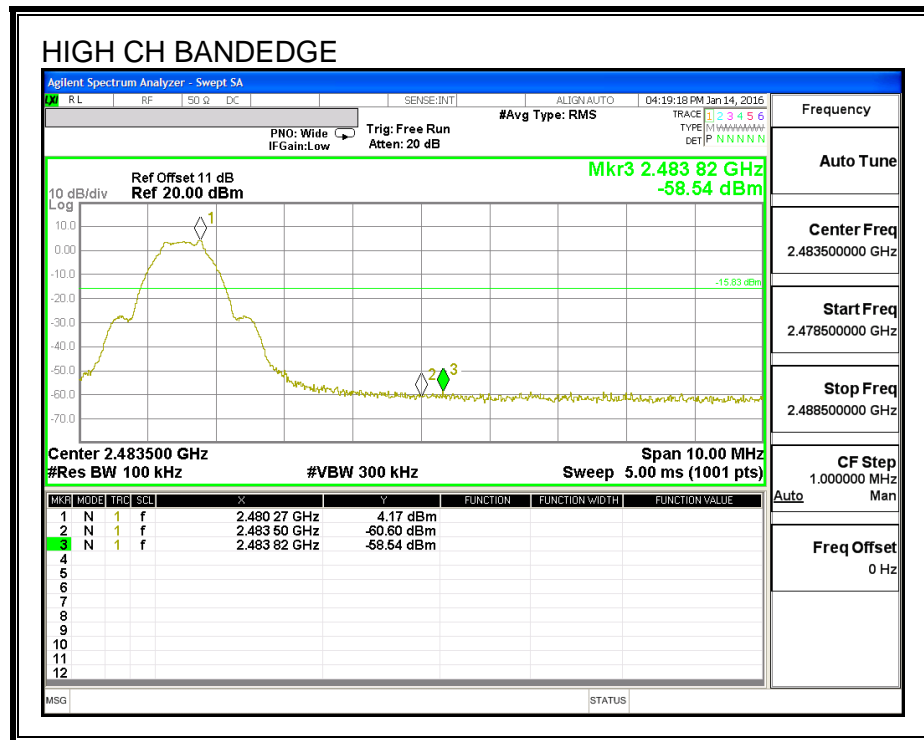
SPURIOUS EMISSIONS, LOW CHANNEL



SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

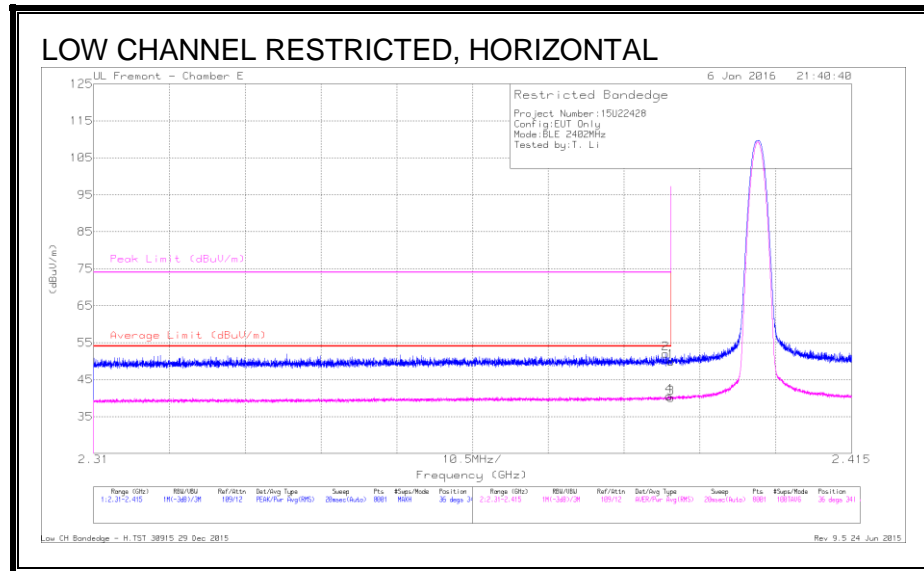
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 3MHz video bandwidth with average detector for average measurements.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. ANTENNA B RESTRICTED BANDEDGE



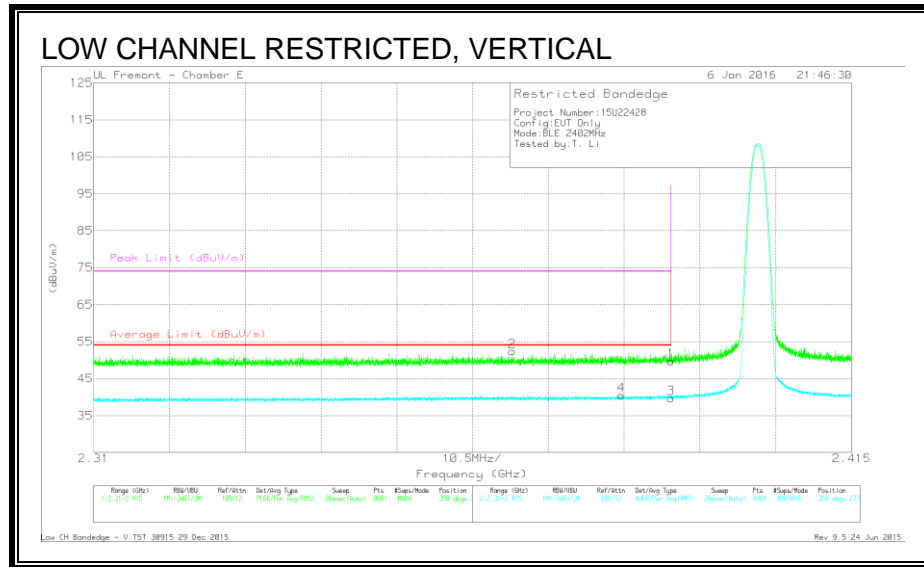
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	39.81	Pk	32.1	-19.9	52.01	-	-	74	-21.99	36	341	H
1	* 2.39	37.66	Pk	32.1	-19.9	49.86	-	-	74	-24.14	36	341	H
3	* 2.39	27.84	RMS	32.1	-19.9	40.04	54	-13.96	-	-	36	341	H
4	* 2.39	28.31	RMS	32.1	-19.9	40.51	54	-13.49	-	-	36	341	H

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

Pk - Peak detector

RMS - RMS detection



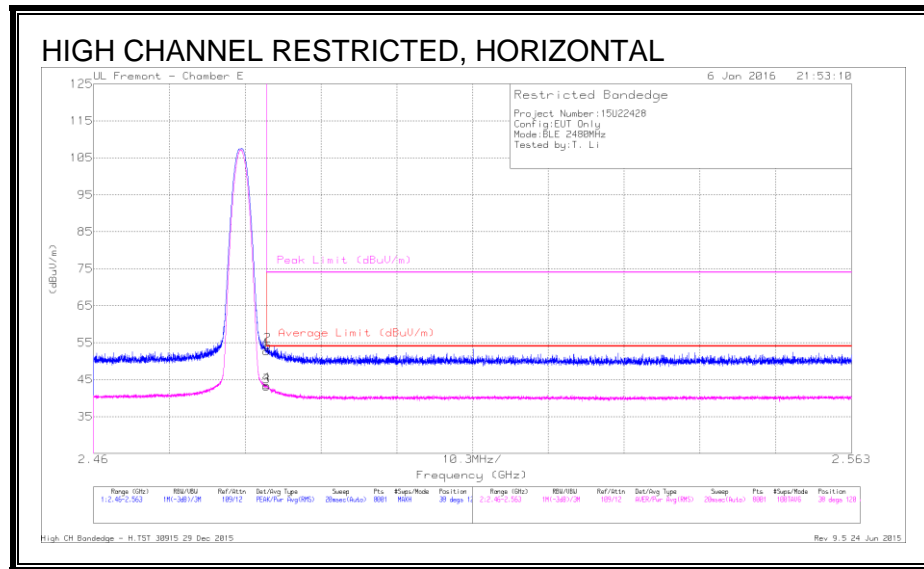
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.368	40.39	Pk	32	-20	52.39	-	-	74	-21.61	350	277	V
4	* 2.383	28.39	RMS	32	-19.9	40.49	54	-13.51	-	-	350	277	V
1	* 2.39	37.56	Pk	32.1	-19.9	49.76	-	-	74	-24.24	350	277	V
3	* 2.39	27.54	RMS	32.1	-19.9	39.74	54	-14.26	-	-	350	277	V

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

Pk - Peak detector

RMS - RMS detection



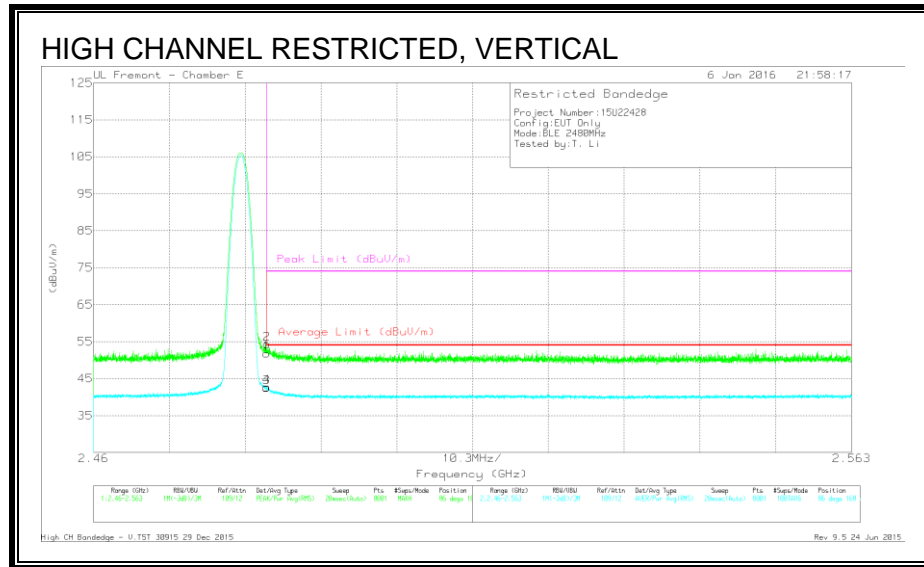
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.48	Pk	32.2	-20	52.68	-	-	74	-21.32	38	120	H
2	* 2.484	42.08	Pk	32.2	-20	54.28	-	-	74	-19.72	38	120	H
3	* 2.484	30.95	RMS	32.2	-20	43.15	54	-10.85	-	-	38	120	H
4	* 2.484	31.35	RMS	32.2	-20	43.55	54	-10.45	-	-	38	120	H

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

Pk - Peak detector

RMS - RMS detection



DATA

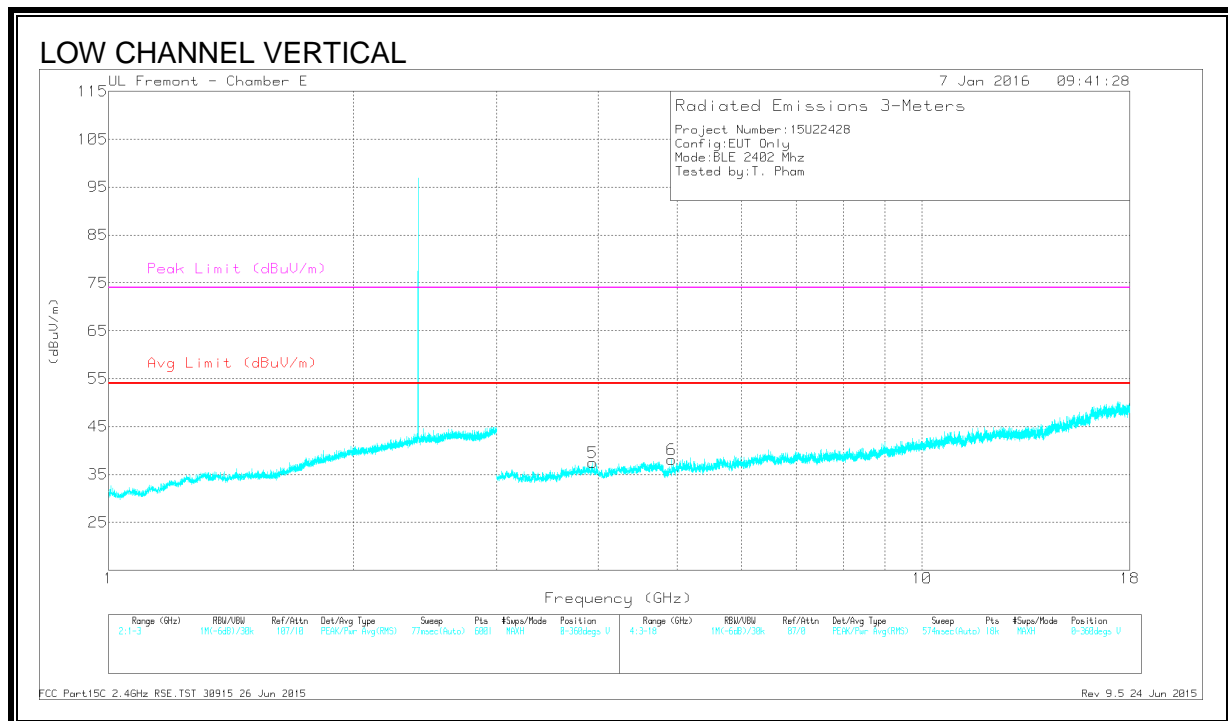
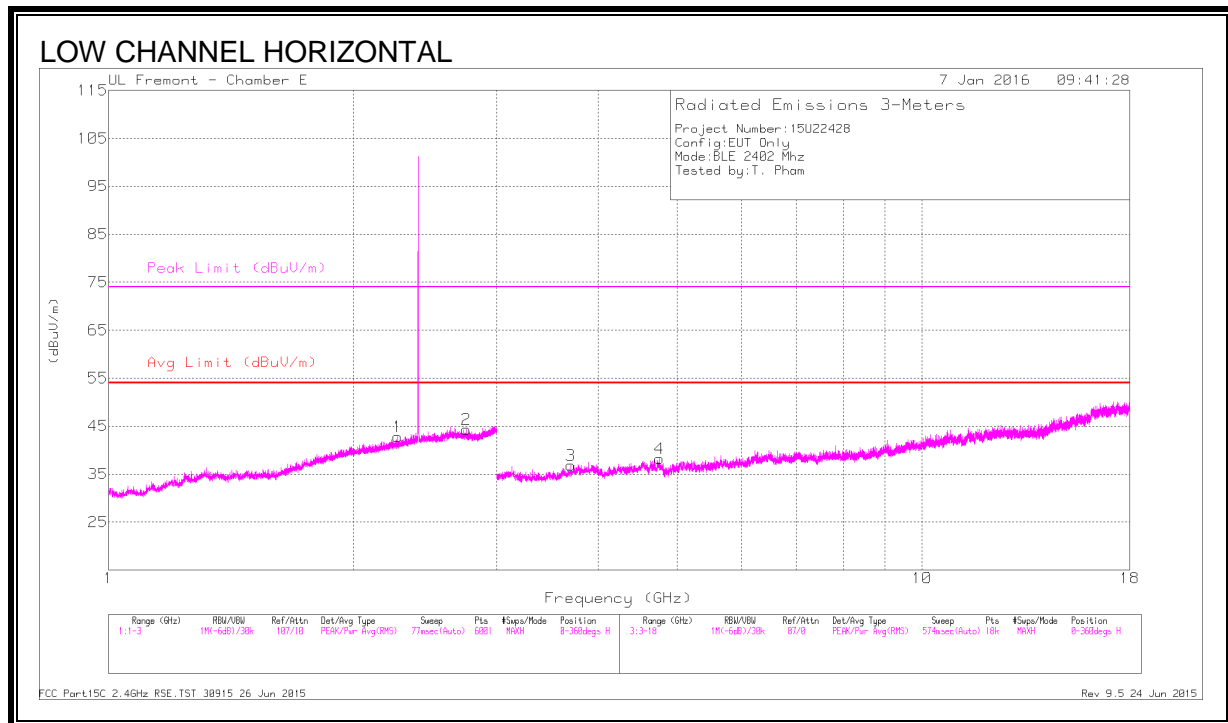
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.63	Pk	32.2	-20	51.83	-	-	74	-22.17	86	168	V
2	* 2.484	42.11	Pk	32.2	-20	54.31	-	-	74	-19.69	86	168	V
3	* 2.484	30.39	RMS	32.2	-20	42.59	54	-11.41	-	-	86	168	V
4	* 2.484	30.5	RMS	32.2	-20	42.7	54	-11.3	-	-	86	168	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



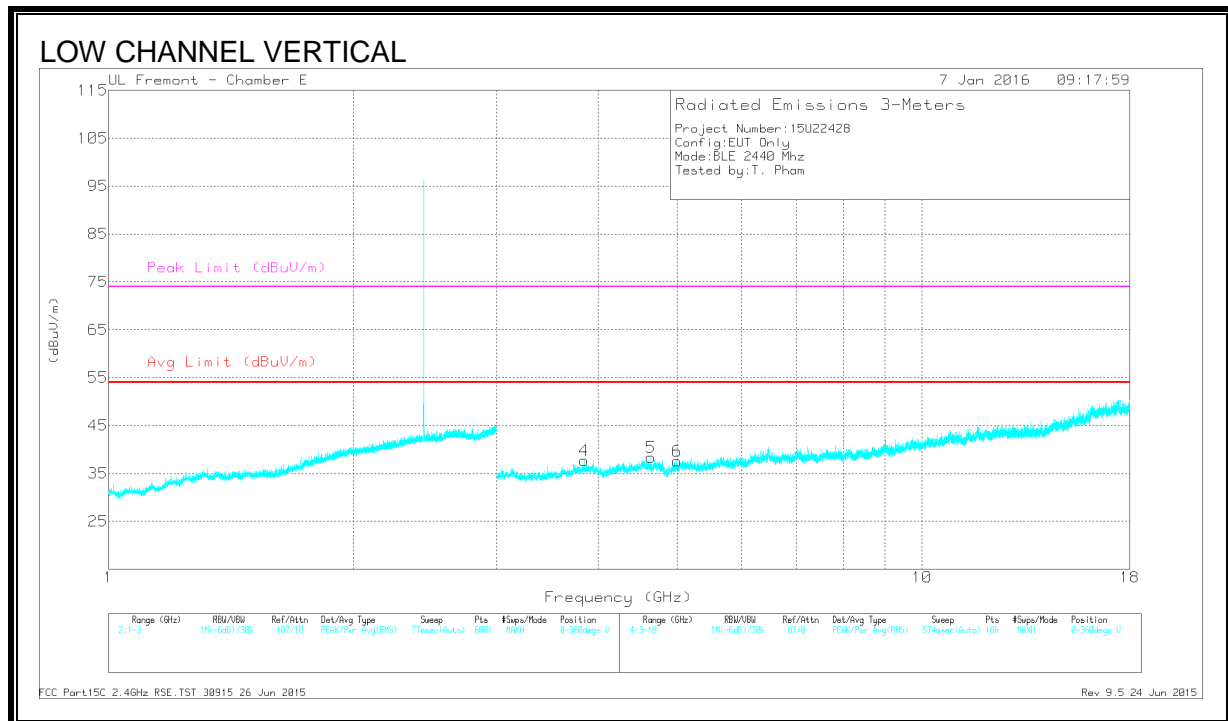
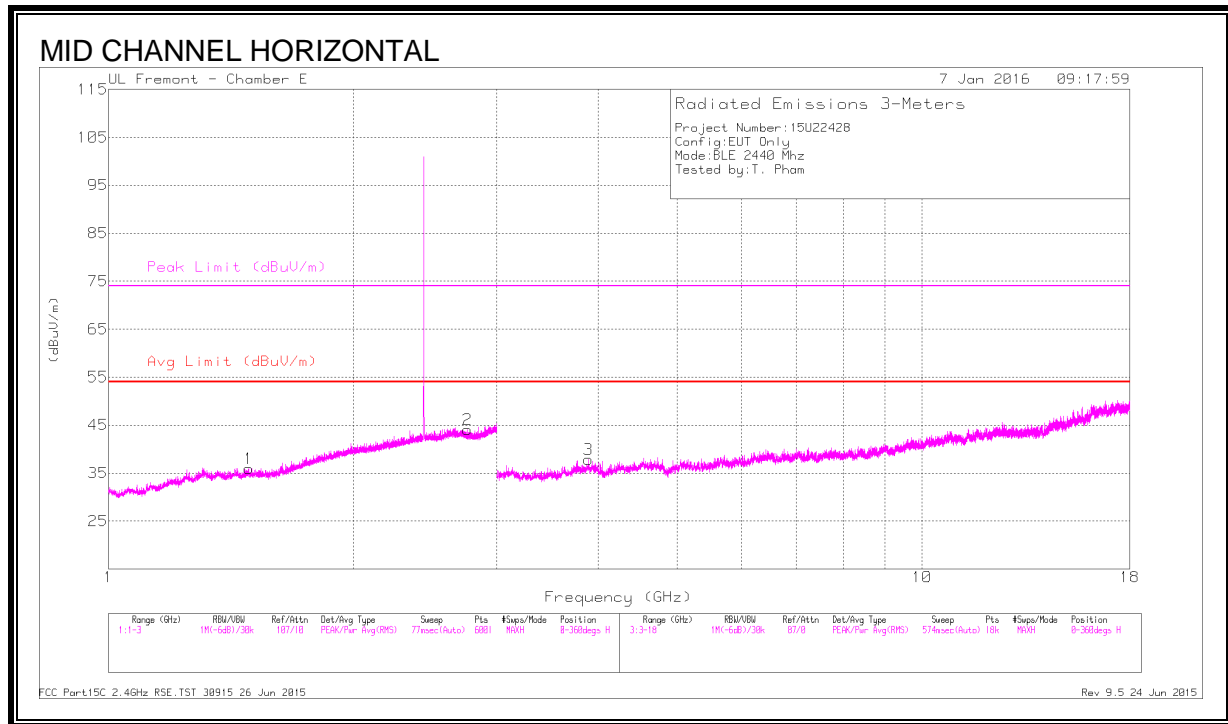
DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.268	37.8	PK2	31.7	-20.1	49.4	-	-	74	-24.6	0	100	H
* 2.269	26.09	MAV1	31.7	-20.1	37.69	54	-16.31	-	-	0	100	H
* 2.756	38.66	PK2	32.4	-19.9	51.16	-	-	74	-22.84	0	100	H
* 2.753	26.88	MAV1	32.4	-19.9	39.38	54	-14.62	-	-	0	100	H
* 3.701	41.51	PK2	33.2	-30.3	44.41	-	-	74	-29.59	0	100	H
* 3.702	30.04	MAV1	33.2	-30.3	32.94	54	-21.06	-	-	0	100	H
* 4.758	40.83	PK2	34.1	-29.3	45.63	-	-	74	-28.37	0	100	H
* 4.758	29.19	MAV1	34.1	-29.3	33.99	54	-20.01	-	-	0	100	H
* 3.933	41.88	PK2	33.5	-29.6	45.78	-	-	74	-28.22	0	100	V
* 3.934	30.05	MAV1	33.5	-29.6	33.95	54	-20.05	-	-	0	100	V
* 4.925	41.35	PK2	34.1	-30.6	44.85	-	-	74	-29.15	0	100	V
* 4.925	29.97	MAV1	34.1	-30.6	33.47	54	-20.53	-	-	0	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



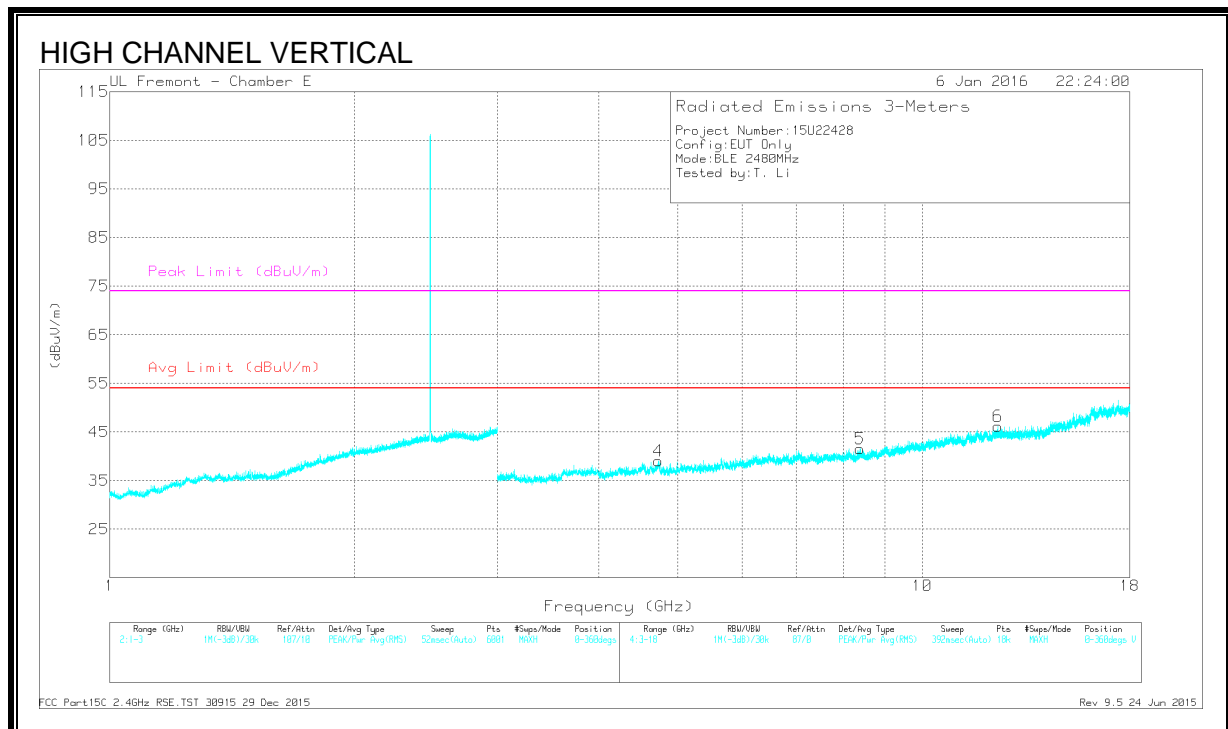
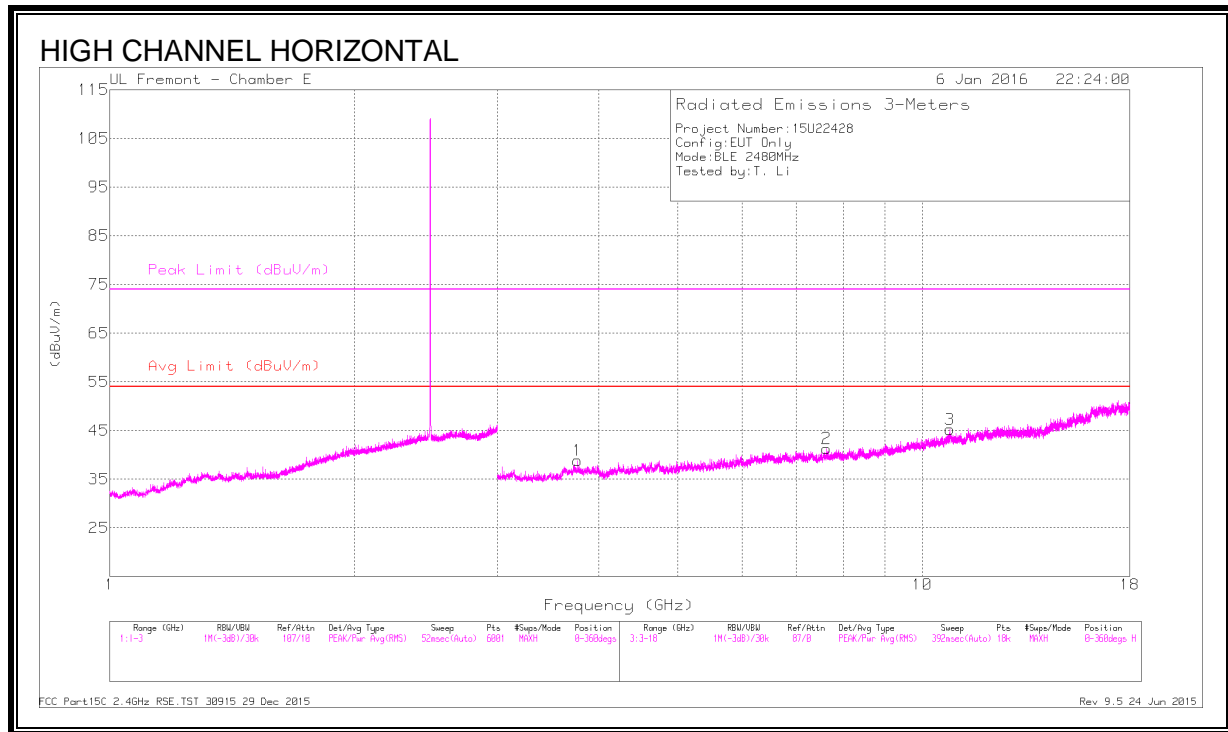
DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.487	36.51	PK2	28.2	-21.6	43.11	-	-	74	-30.89	0	101	H
* 1.485	25.27	MAV1	28.2	-21.6	31.87	54	-22.13	-	-	0	101	H
* 2.76	38.31	PK2	32.4	-20	50.71	-	-	74	-23.29	0	101	H
* 2.758	26.93	MAV1	32.4	-20	39.33	54	-14.67	-	-	0	101	H
* 3.89	41.87	PK2	33.5	-30.5	44.87	-	-	74	-29.13	0	101	H
* 3.888	30.81	MAV1	33.5	-30.5	33.81	54	-20.19	-	-	0	101	H
* 3.845	42.86	PK2	33.5	-31.2	45.16	-	-	74	-28.84	0	101	V
* 3.845	31.43	MAV1	33.5	-31.2	33.73	54	-20.27	-	-	0	101	V
* 4.643	42.76	PK2	34.1	-30.6	46.26	-	-	74	-27.74	0	101	V
* 4.643	31.22	MAV1	34.1	-30.6	34.72	54	-19.28	-	-	0	101	V
* 4.996	42.79	PK2	34.2	-30.2	46.79	-	-	74	-27.21	0	101	V
* 4.997	29.95	MAV1	34.2	-30.2	33.95	54	-20.05	-	-	0	101	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



DATA

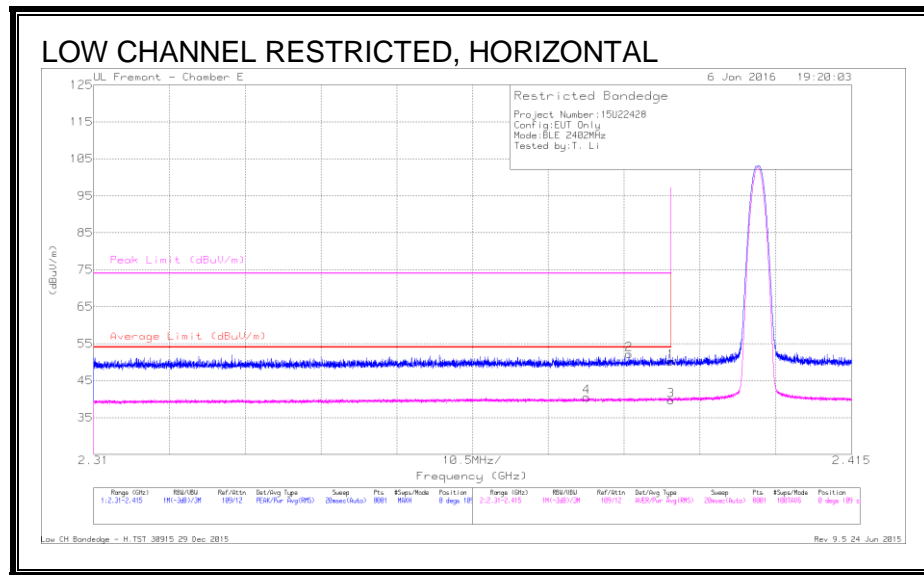
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.763	41.43	PK2	33.4	-30.2	44.63	-	-	74	-29.37	171	212	H
	* 3.767	29.65	MAv1	33.4	-30.2	32.85	54	-21.15	-	-	171	212	H
2	* 7.627	38.12	PK2	35.7	-26.7	47.12	-	-	74	-26.88	288	359	H
	* 7.626	26.75	MAv1	35.7	-26.6	35.85	54	-18.15	-	-	288	359	H
3	* 10.81	36.36	PK2	37.9	-23.3	50.96	-	-	74	-23.04	122	338	H
	* 10.809	25	MAv1	37.9	-23.3	39.6	54	-14.4	-	-	122	338	H
4	* 4.73	40.6	PK2	34.2	-29	45.8	-	-	74	-28.2	99	129	V
	* 4.731	28.75	MAv1	34.2	-29	33.95	54	-20.05	-	-	99	129	V
5	* 8.381	37.52	PK2	35.8	-25.8	47.52	-	-	74	-26.48	312	198	V
	* 8.379	26.17	MAv1	35.8	-25.8	36.17	54	-17.83	-	-	312	198	V
6	* 12.389	36.76	PK2	38.9	-23.5	52.16	-	-	74	-21.84	65	320	V
	* 12.39	25.28	MAv1	38.9	-23.5	40.68	54	-13.32	-	-	65	320	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

8.2.2. ANTENNA B RESTRICTED BANDEDGE



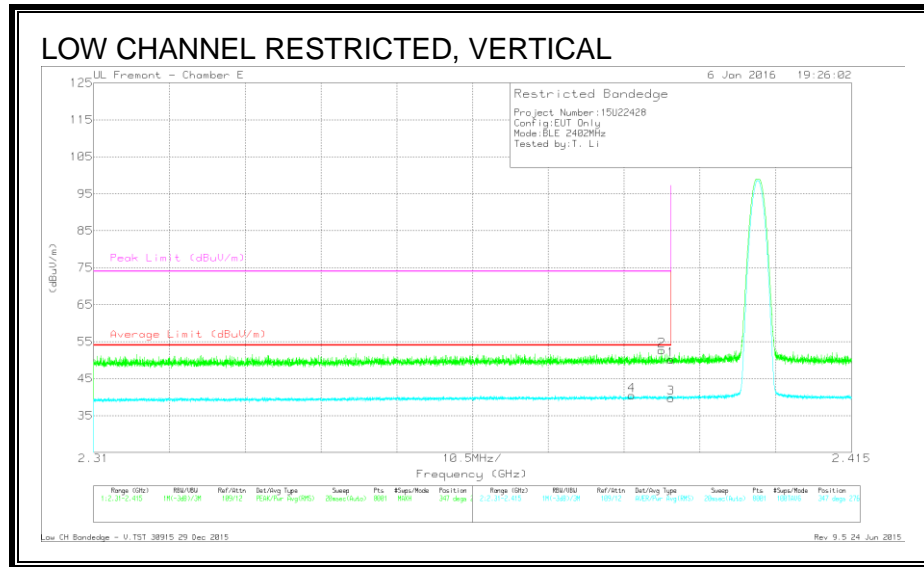
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.378	28.58	RMS	32	-20	40.58	54	-13.42	-	-	0	109	H
2	* 2.384	40.03	Pk	32	-19.9	52.13	-	-	74	-21.87	0	109	H
1	* 2.39	37.97	Pk	32.1	-19.9	50.17	-	-	74	-23.83	0	109	H
3	* 2.39	27.49	RMS	32.1	-19.9	39.69	54	-14.31	-	-	0	109	H

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

Pk - Peak detector

RMS - RMS detection



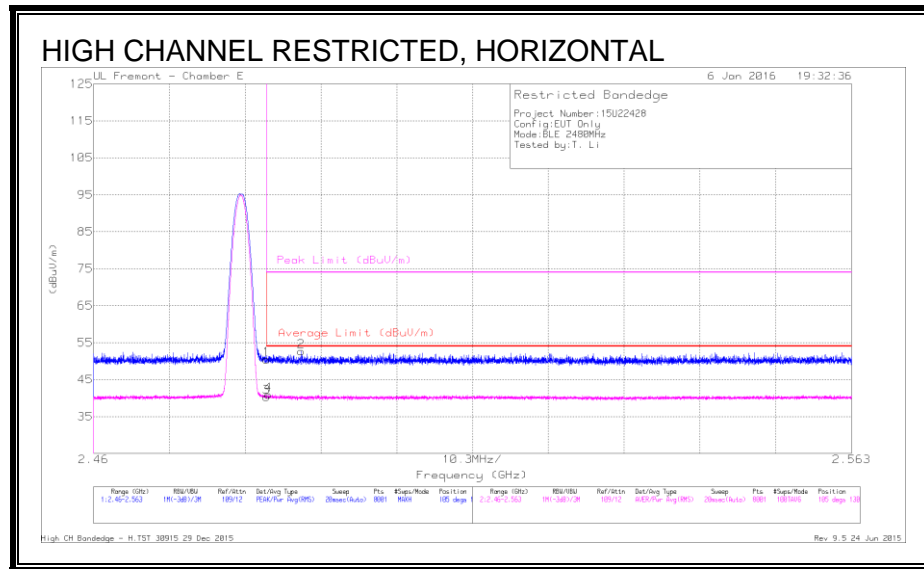
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.385	28.38	RMS	32	-19.9	40.48	54	-13.52	-	-	347	276	V
2	* 2.389	40.47	Pk	32.1	-19.9	52.67	-	-	74	-21.33	347	276	V
1	* 2.39	37.95	Pk	32.1	-19.9	50.15	-	-	74	-23.85	347	276	V
3	* 2.39	27.56	RMS	32.1	-19.9	39.76	54	-14.24	-	-	347	276	V

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

Pk - Peak detector

RMS - RMS detection



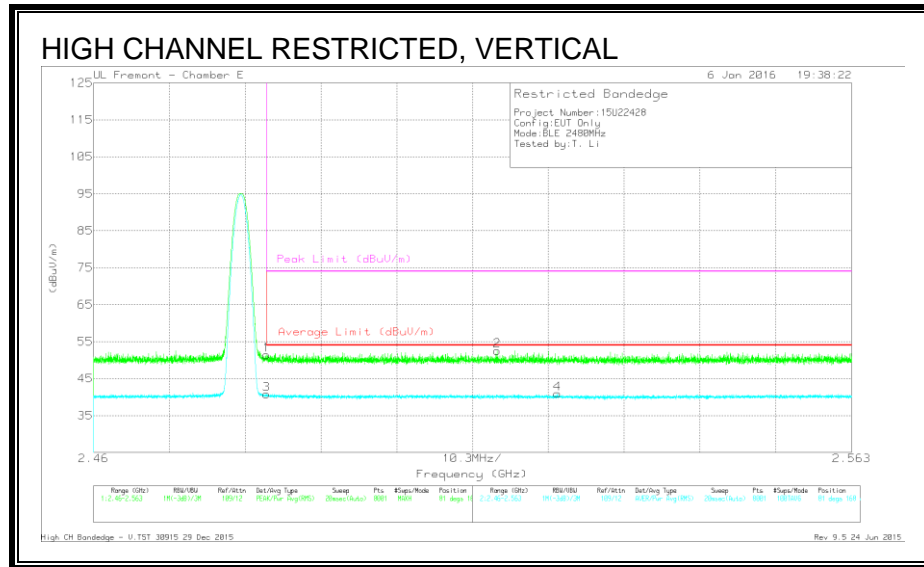
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.3	Pk	32.2	-20	50.5	-	-	74	-23.5	105	130	H
3	* 2.484	28.11	RMS	32.2	-20	40.31	54	-13.69	-	-	105	130	H
4	* 2.484	28.73	RMS	32.2	-20	40.93	54	-13.07	-	-	105	130	H
2	* 2.488	40.55	Pk	32.2	-20.1	52.65	-	-	74	-21.35	105	130	H

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

Pk - Peak detector

RMS - RMS detection



DATA

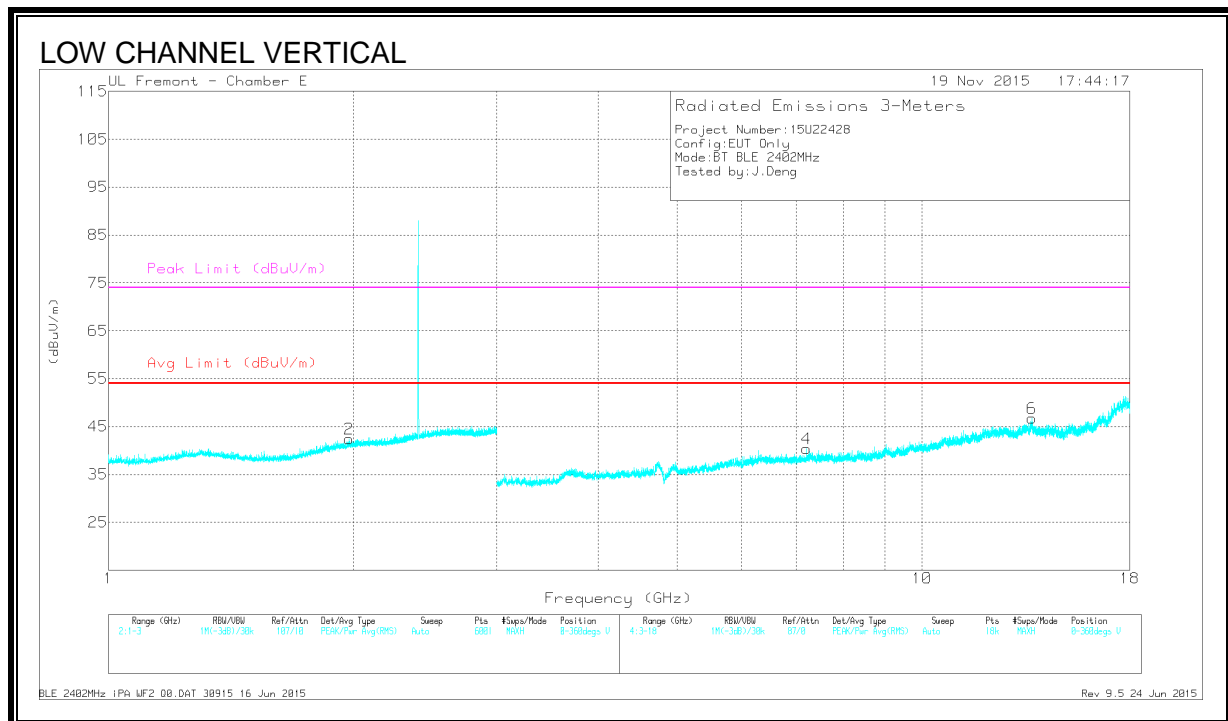
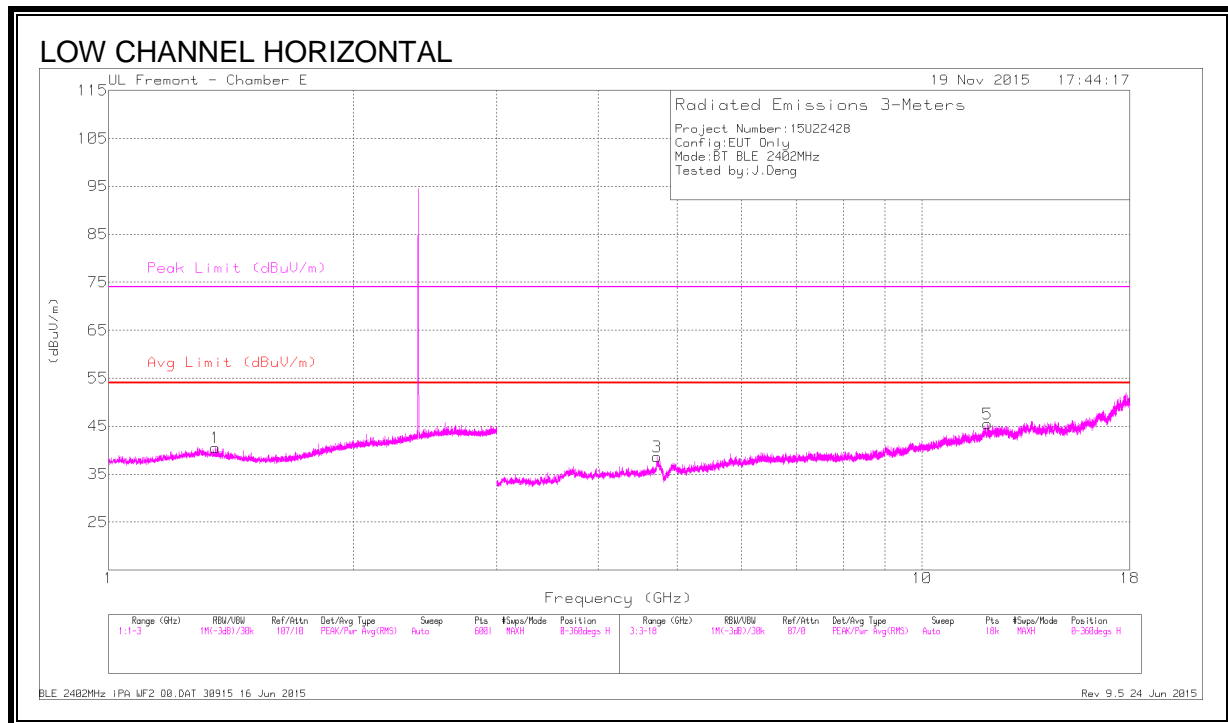
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.18	Pk	32.2	-20	51.38	-	-	74	-22.62	81	168	V
3	* 2.484	28.58	RMS	32.2	-20	40.78	54	-13.22	-	-	81	168	V
2	2.515	40.44	Pk	32.2	-20.1	52.54	-	-	74	-21.46	81	168	V
4	2.523	28.79	RMS	32.2	-20.1	40.89	54	-13.11	-	-	81	168	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



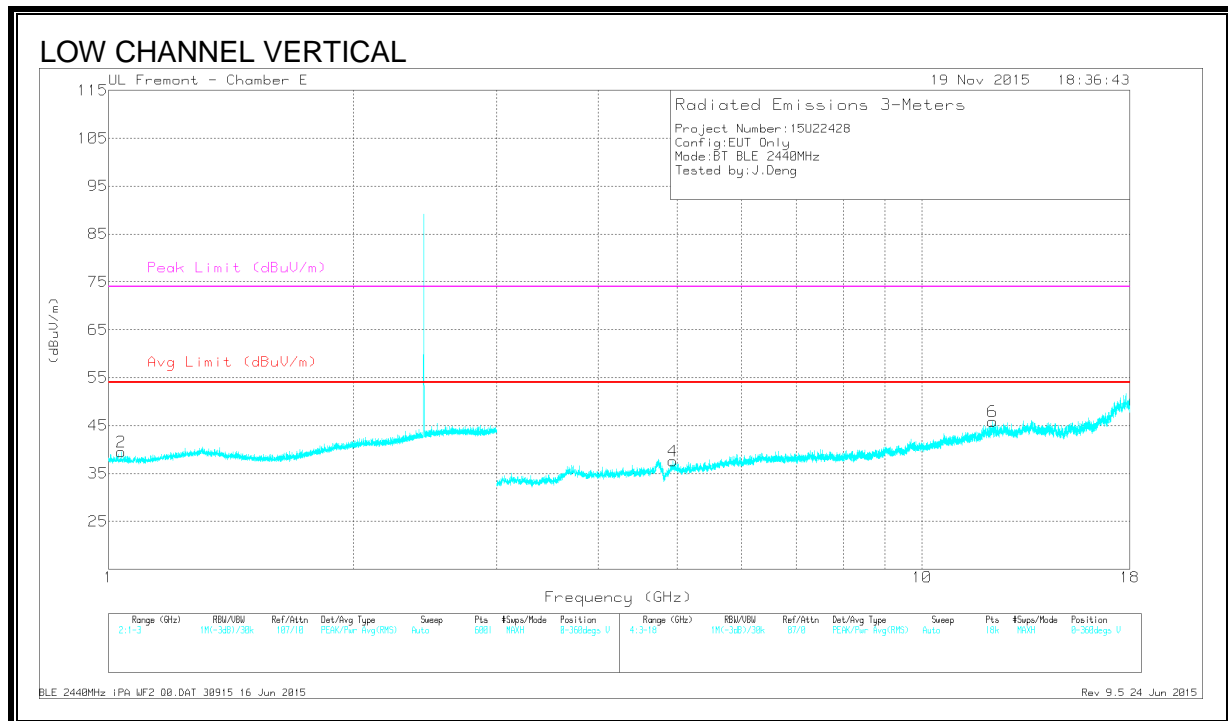
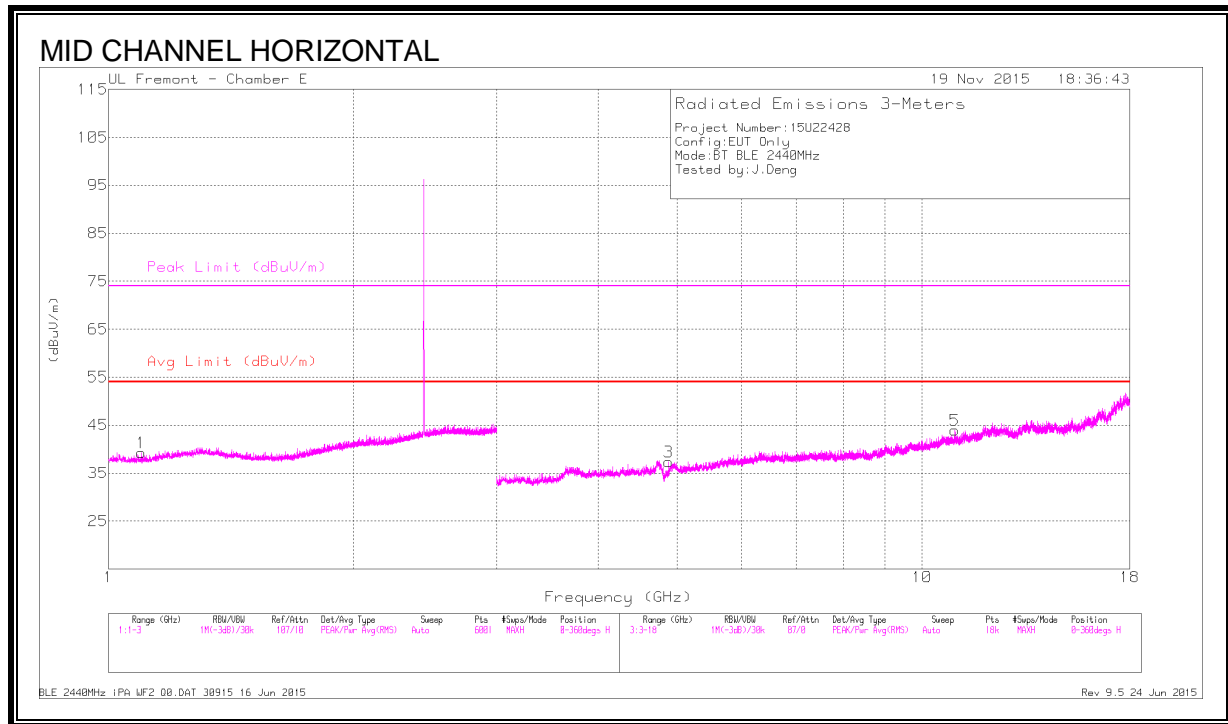
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.352	44.11	PK2	29.1	-25.5	47.71	-	-	74	-26.29	153	243	H
	* 1.359	30.34	MAV1	29	-25.5	33.84	54	-20.16	-	-	153	243	H
3	* 4.719	44.17	PK2	33.9	-32.3	45.77	-	-	74	-28.23	44	101	H
	* 4.72	30.55	MAV1	33.9	-32.3	32.15	54	-21.85	-	-	44	101	H
5	* 12.034	38.64	PK2	38.9	-25.2	52.34	-	-	74	-21.66	309	120	H
	* 12.031	24.96	MAV1	38.9	-25.2	38.66	54	-15.34	-	-	309	120	H
2	1.971	29.34	MAV1	31.1	-25	35.44	-	-	-	-	165	217	V
	1.975	43.02	PK2	31.2	-24.9	49.32	-	-	-	-	165	217	V
4	7.206	42.27	PK2	35.6	-30.3	47.57	-	-	-	-	280	135	V
	7.206	32.8	MAV1	35.6	-30.3	38.1	-	-	-	-	280	135	V
6	13.635	38.25	PK2	39.2	-24.8	52.65	-	-	-	-	325	275	V
	13.639	25.95	MAV1	39.2	-24.9	40.25	-	-	-	-	325	275	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



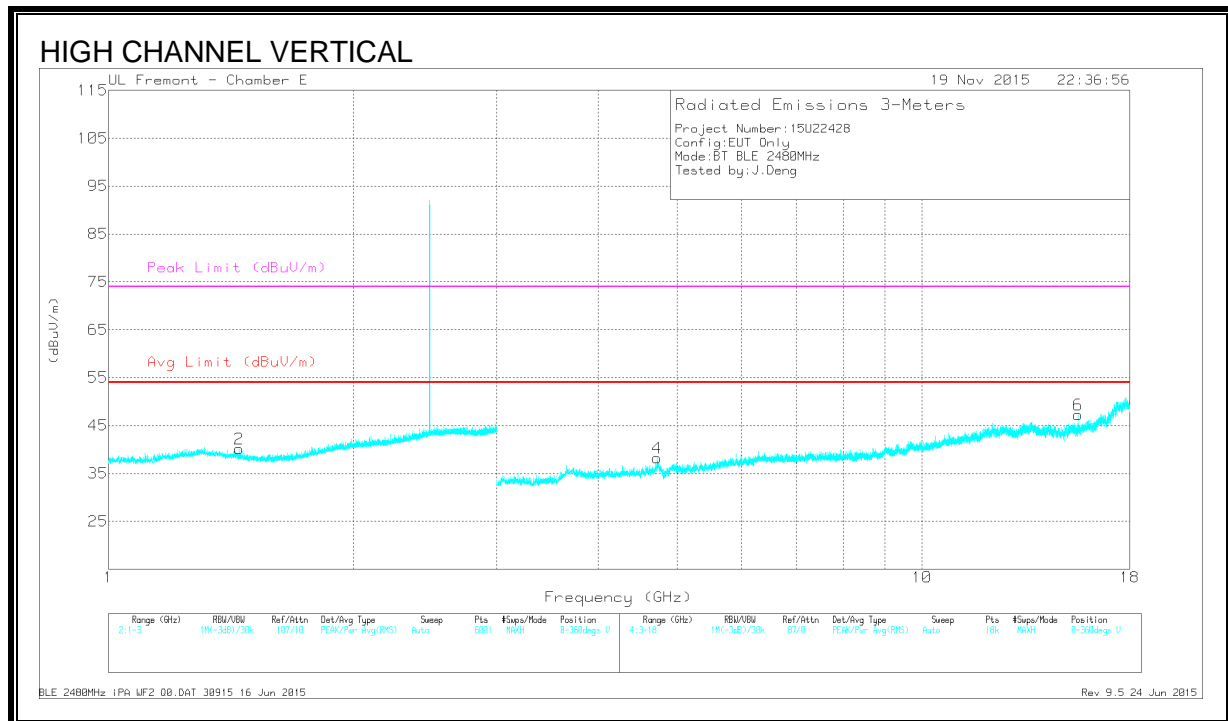
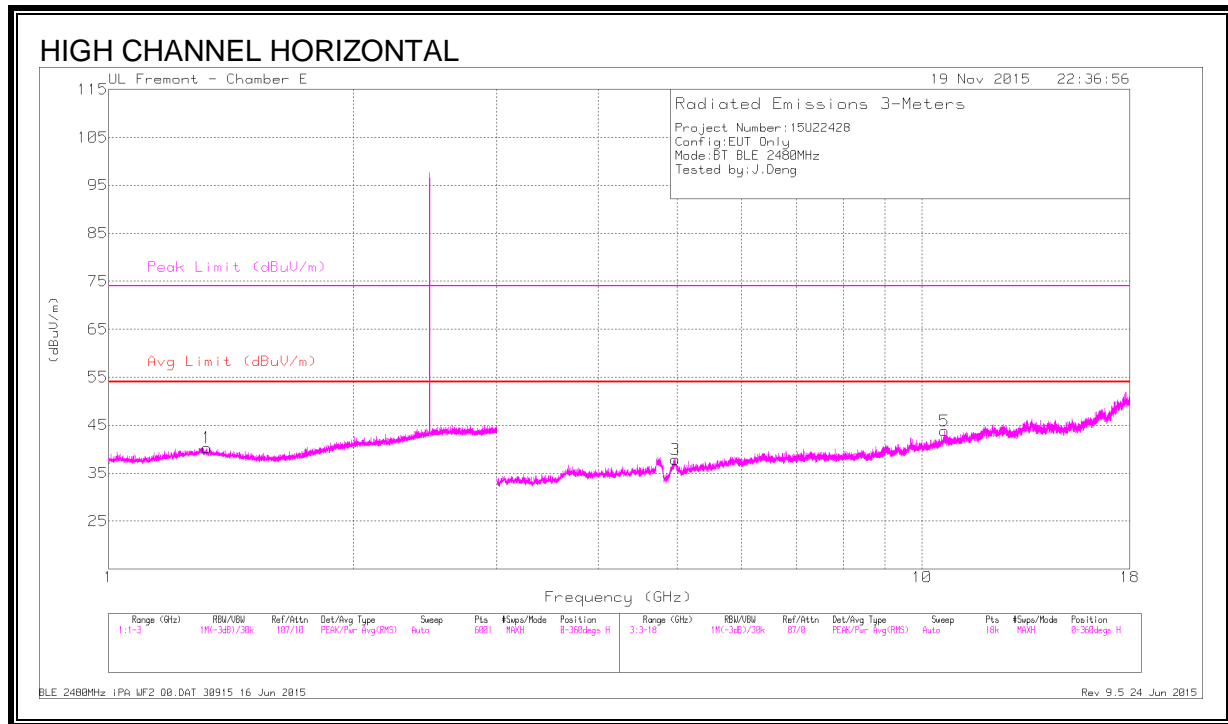
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.103	45.03	PK2	27.3	-25.7	46.63	-	-	74	-27.37	243	160	H
	* 1.099	30.83	MAV1	27.3	-25.7	32.43	54	-21.57	-	-	243	160	H
2	* 1.043	44.6	PK2	27.3	-25.7	46.2	-	-	74	-27.8	63	203	V
	* 1.031	30.98	MAV1	27.3	-25.8	32.48	54	-21.52	-	-	63	203	V
3	* 4.88	41.39	PK2	34	-32.5	42.89	-	-	74	-31.11	218	150	H
	* 4.88	30.83	MAV1	34	-32.5	32.33	54	-21.67	-	-	218	150	H
4	* 10.972	37.4	PK2	37.9	-26	49.3	-	-	74	-24.7	331	127	H
	* 10.975	24.91	MAV1	37.9	-25.9	36.91	54	-17.09	-	-	331	127	H
5	* 4.943	42.73	PK2	34.1	-32.6	44.23	-	-	74	-29.77	163	302	V
	* 4.946	29.73	MAV1	34.1	-32.6	31.23	54	-22.77	-	-	163	302	V
6	* 12.209	37.98	PK2	39	-24.6	52.38	-	-	74	-21.62	76	128	V
	* 12.205	25.06	MAV1	39	-24.8	39.26	54	-14.74	-	-	76	128	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



DATA

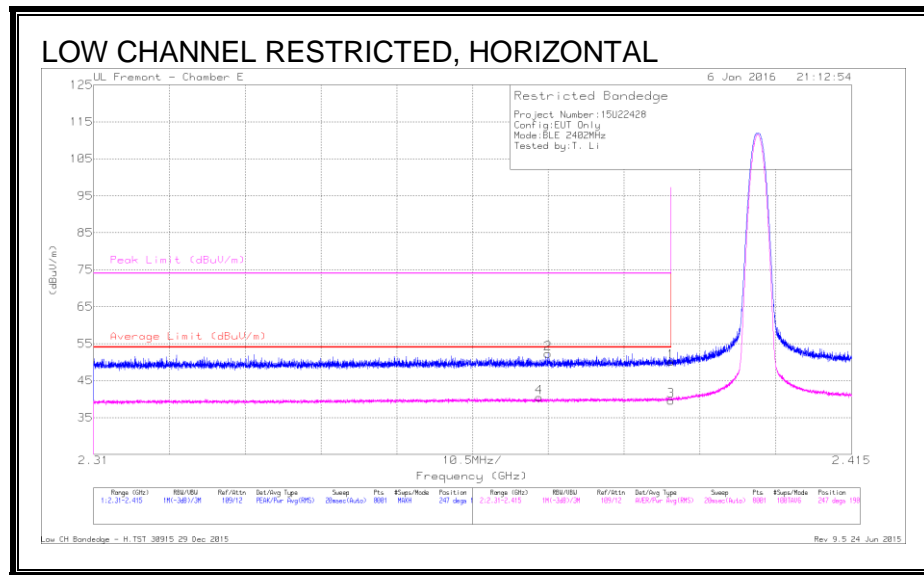
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.314	44.17	PK2	29.3	-25.6	47.87	-	-	74	-26.13	84	103	H
	* 1.314	30.38	MAV1	29.3	-25.6	34.08	54	-19.92	-	-	84	103	H
2	* 1.448	43.28	PK2	28.6	-25.3	46.58	-	-	74	-27.42	200	103	V
	* 1.439	29.96	MAV1	28.6	-25.3	33.26	54	-20.74	-	-	200	103	V
3	* 4.974	43.36	PK2	34.2	-32.4	45.16	-	-	74	-28.84	122	151	H
	* 4.967	30.06	MAV1	34.2	-32.4	31.86	54	-22.14	-	-	122	151	H
5	* 10.655	38.04	PK2	37.8	-26.1	49.74	-	-	74	-24.26	260	146	H
	* 10.654	25.14	MAV1	37.8	-26.1	36.84	54	-17.16	-	-	260	146	H
4	* 4.726	44.62	PK2	33.9	-32.3	46.22	-	-	74	-27.78	252	143	V
	* 4.72	30.8	MAV1	33.9	-32.3	32.4	54	-21.6	-	-	252	143	V
6	* 15.543	38.34	PK2	40.1	-26.7	51.74	-	-	74	-22.26	197	288	V
	* 15.532	25.87	MAV1	40.1	-27	38.97	54	-15.03	-	-	197	288	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

8.2.3. ANTENNA D RESTRICTED BANDEDGE



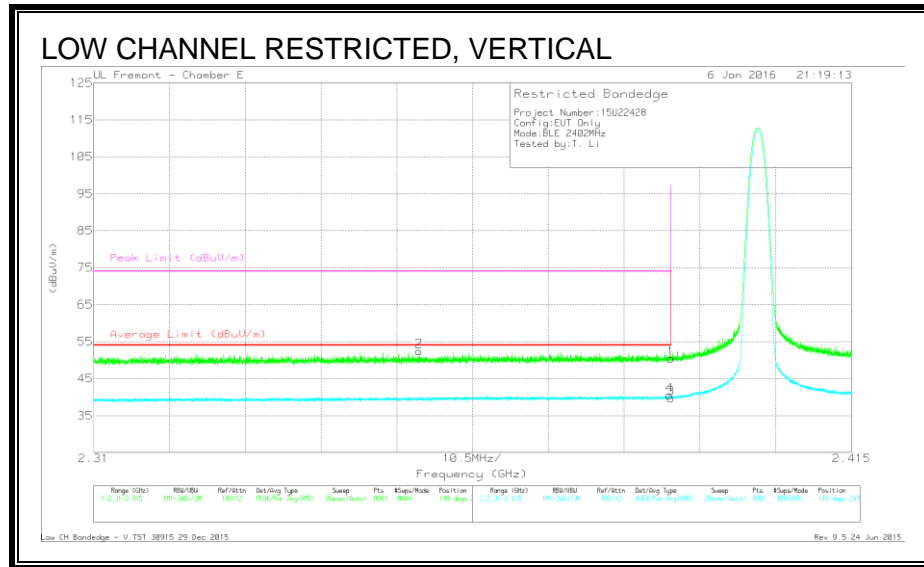
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.372	28.47	RMS	32	-20	40.47	54	-13.53	-	-	247	198	H
2	* 2.373	40.3	Pk	32	-20	52.3	-	-	74	-21.7	247	198	H
1	* 2.39	37.92	Pk	32.1	-19.9	50.12	-	-	74	-23.88	247	198	H
3	* 2.39	27.42	RMS	32.1	-19.9	39.62	54	-14.38	-	-	247	198	H

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

Pk - Peak detector

RMS - RMS detection



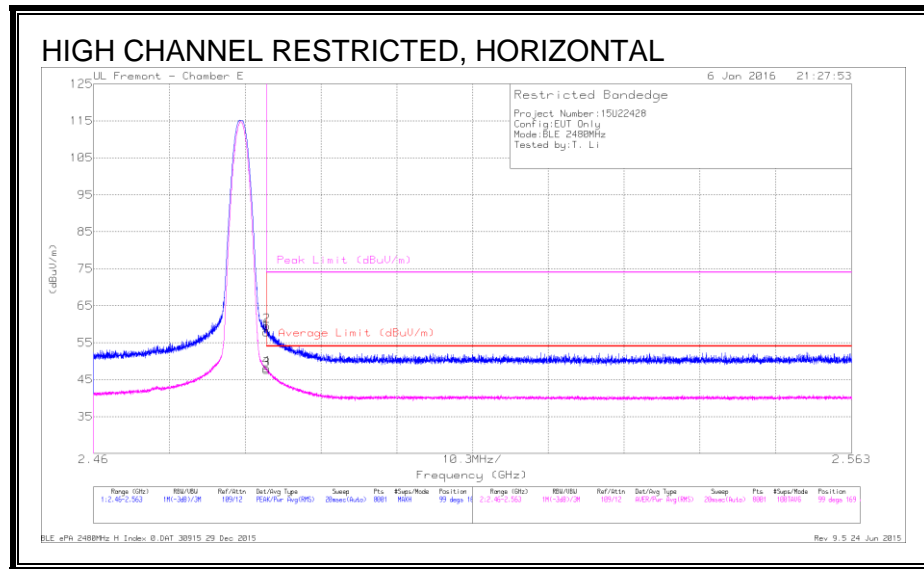
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.355	40.53	Pk	32	-20.1	52.43	-	-	74	-21.57	148	269	V
1	* 2.39	38.24	Pk	32.1	-19.9	50.44	-	-	74	-23.56	148	269	V
3	* 2.39	27.49	RMS	32.1	-19.9	39.69	54	-14.31	-	-	148	269	V
4	* 2.39	28.3	RMS	32.1	-19.9	40.5	54	-13.5	-	-	148	269	V

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

Pk - Peak detector

RMS - RMS detection



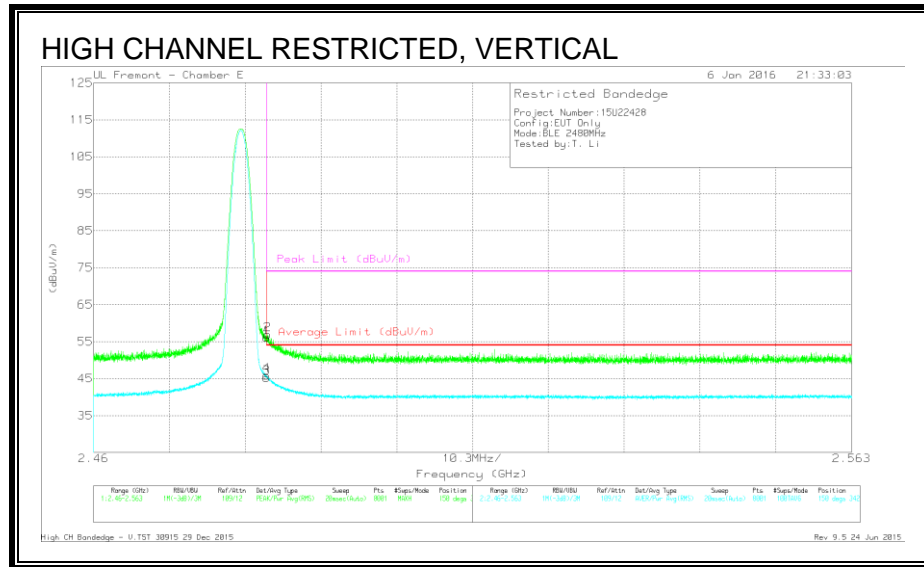
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.65	Pk	32.2	-20	57.85	-	-	74	-16.15	99	169	H
2	* 2.484	47.32	Pk	32.2	-20	59.52	-	-	74	-14.48	99	169	H
3	* 2.484	35.5	RMS	32.2	-20	47.7	54	-6.3	-	-	99	169	H
4	* 2.484	35.9	RMS	32.2	-20	48.1	54	-5.9	-	-	99	169	H

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

Pk - Peak detector

RMS - RMS detection



DATA

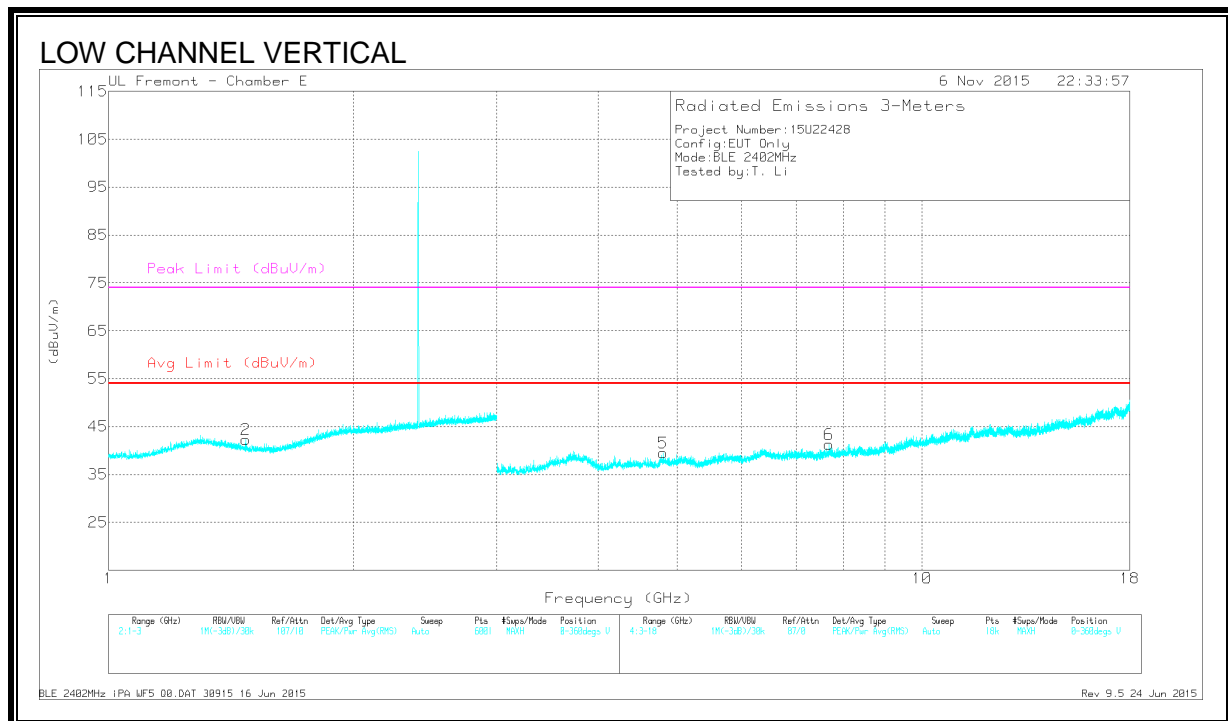
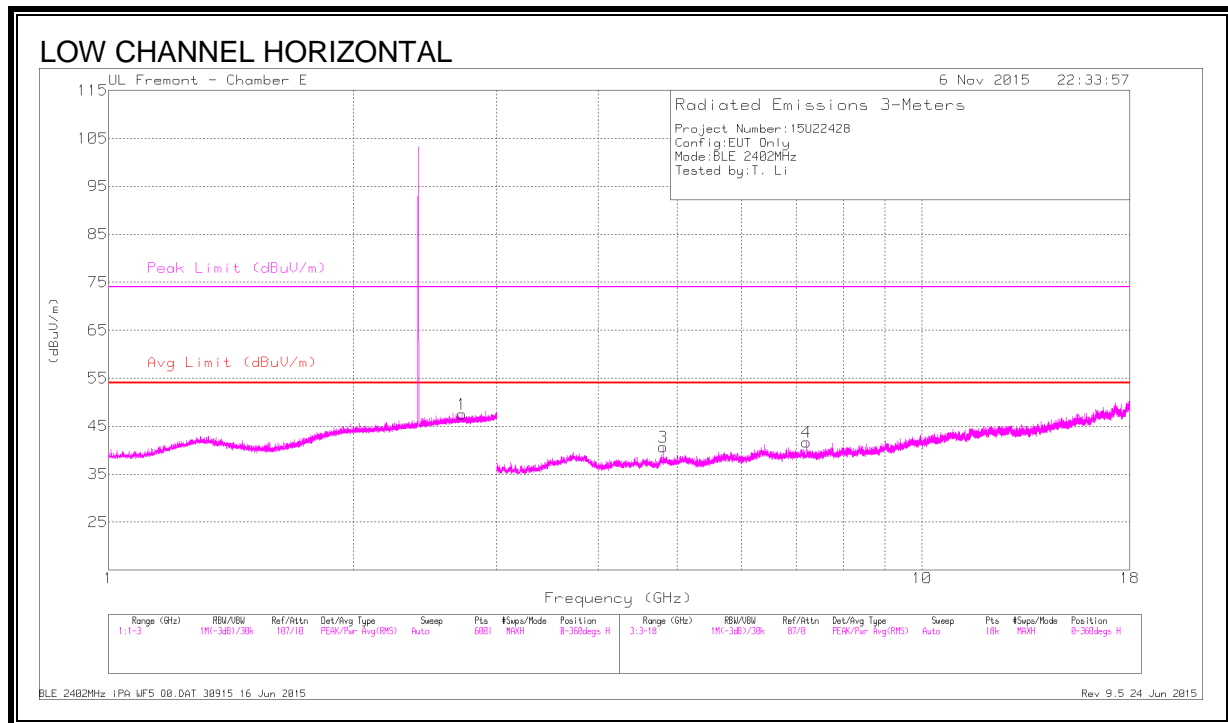
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.85	Pk	32.2	-20	56.05	-	-	74	-17.95	150	342	V
2	* 2.484	44.69	Pk	32.2	-20	56.89	-	-	74	-17.11	150	342	V
3	* 2.484	33.04	RMS	32.2	-20	45.24	54	-8.76	-	-	150	342	V
4	* 2.484	33.65	RMS	32.2	-20	45.85	54	-8.15	-	-	150	342	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



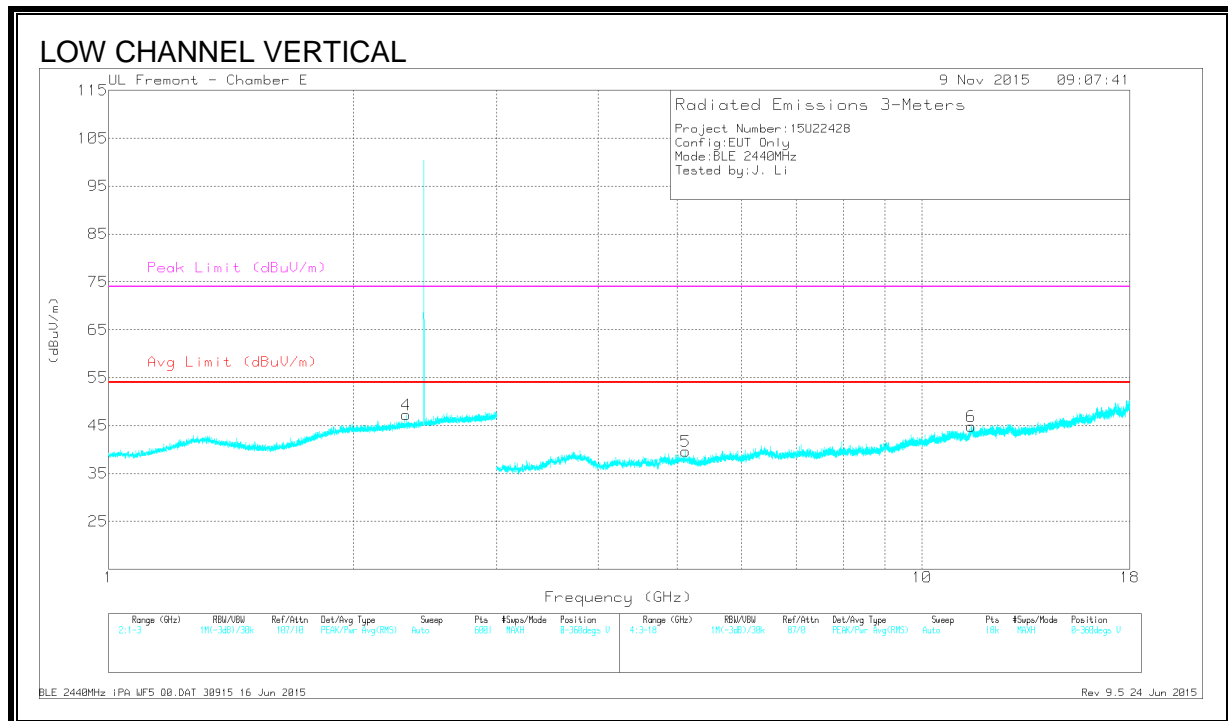
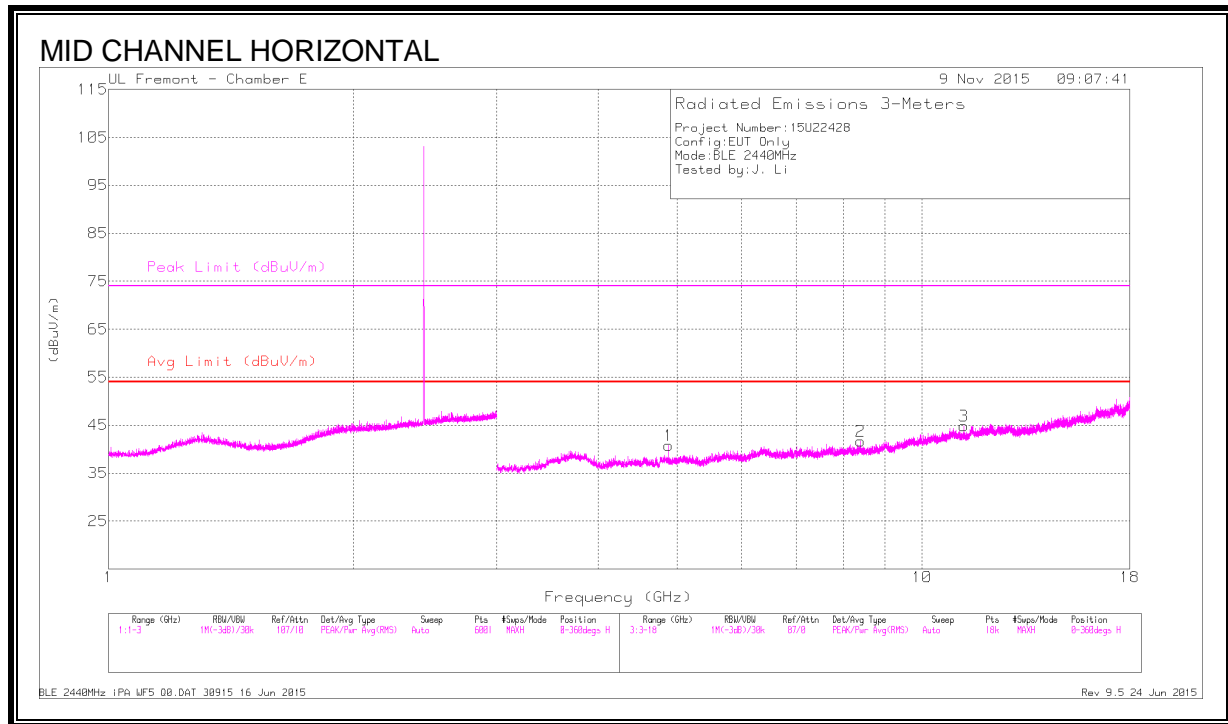
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.721	41.71	PK2	32.7	-20.7	53.71	-	-	74	-20.29	210	277	H
	* 2.72	30.44	MAv1	32.7	-20.7	42.44	54	-11.56	-	-	210	277	H
2	* 1.473	41.82	PK2	28.5	-22.1	48.22	-	-	74	-25.78	114	279	V
	* 1.475	30.38	MAv1	28.4	-22.1	36.68	54	-17.32	-	-	114	279	V
3	* 4.804	40.28	PK2	34.1	-27.7	46.68	-	-	74	-27.32	102	188	H
	* 4.804	32.05	MAv1	34.1	-27.7	38.45	54	-15.55	-	-	102	188	H
4	7.207	40.69	PK2	35.6	-26.5	49.79	-	-	-	-	104	257	H
	7.206	31.19	MAv1	35.6	-26.5	40.29	-	-	-	-	104	257	H
5	* 4.804	39.38	PK2	34.1	-27.7	45.78	-	-	74	-28.22	171	264	V
	* 4.804	29.12	MAv1	34.1	-27.7	35.52	54	-18.48	-	-	171	264	V
6	* 7.687	36.6	PK2	35.7	-25.9	46.4	-	-	74	-27.6	109	224	V
	* 7.687	25.81	MAv1	35.7	-25.9	35.61	54	-18.39	-	-	109	224	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average



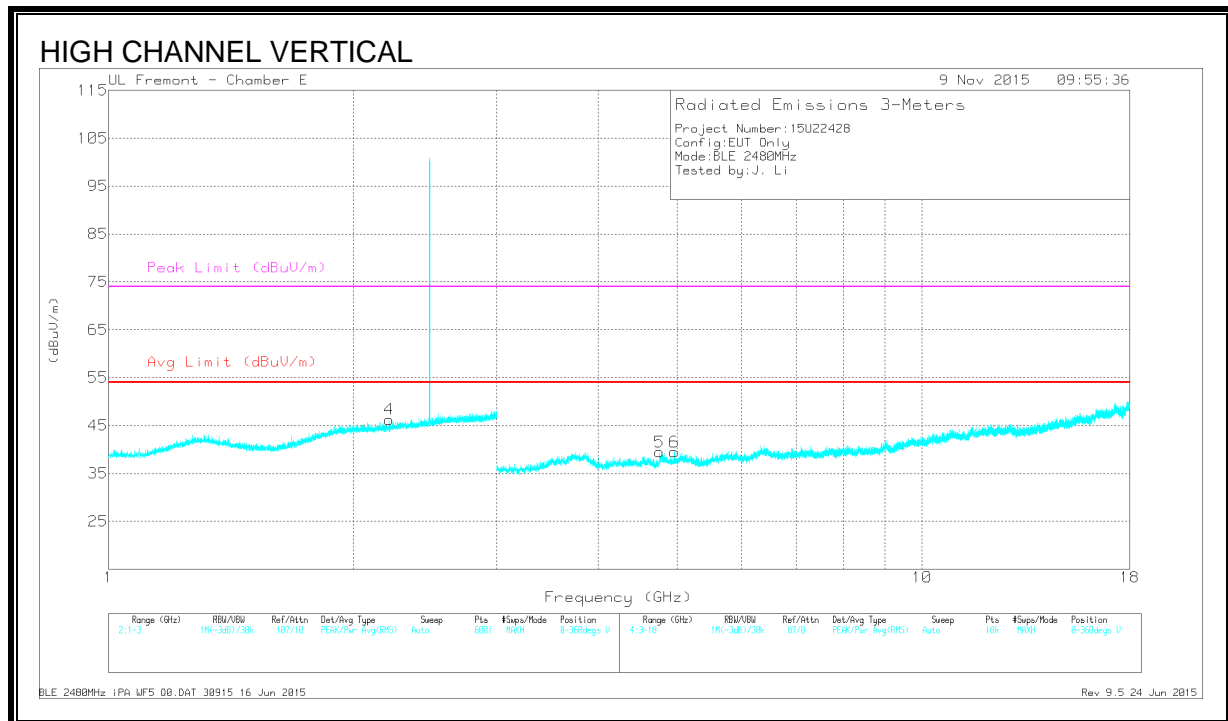
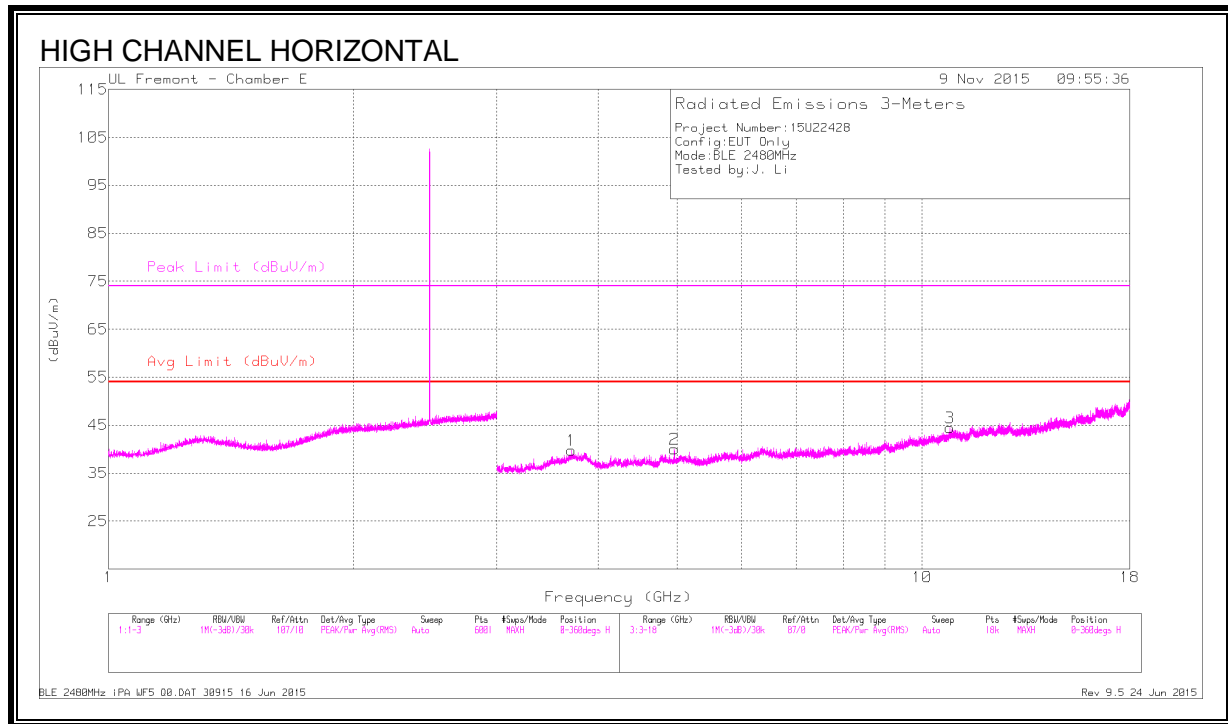
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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.324	42.76	PK2	31.8	-21.1	53.46	-	-	74	-20.54	0	201	V
* 2.323	30.47	MAV1	31.8	-21.1	41.17	54	-12.83	-	-	0	201	V
* 4.88	39.97	PK2	34.1	-27.9	46.17	-	-	74	-27.83	237	131	H
* 4.88	31.64	MAV1	34.1	-27.9	37.84	54	-16.16	-	-	237	131	H
* 8.4	35.4	PK2	35.8	-24.1	47.1	-	-	74	-26.9	237	101	H
* 8.401	24.21	MAV1	35.8	-24.1	35.91	54	-18.09	-	-	237	101	H
* 11.26	34.98	PK2	38.2	-21.7	51.48	-	-	74	-22.52	237	101	H
* 11.261	23.02	MAV1	38.2	-21.7	39.52	54	-14.48	-	-	237	101	H
* 5.122	38.2	PK2	34.2	-27.3	45.1	-	-	74	-28.9	237	101	V
* 5.122	26.61	MAV1	34.2	-27.3	33.51	54	-20.49	-	-	237	101	V
* 11.491	33.87	PK2	38.6	-21.4	51.07	-	-	74	-22.93	237	101	V
* 11.491	23	MAV1	38.5	-21.4	40.1	54	-13.9	-	-	237	101	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



DATA

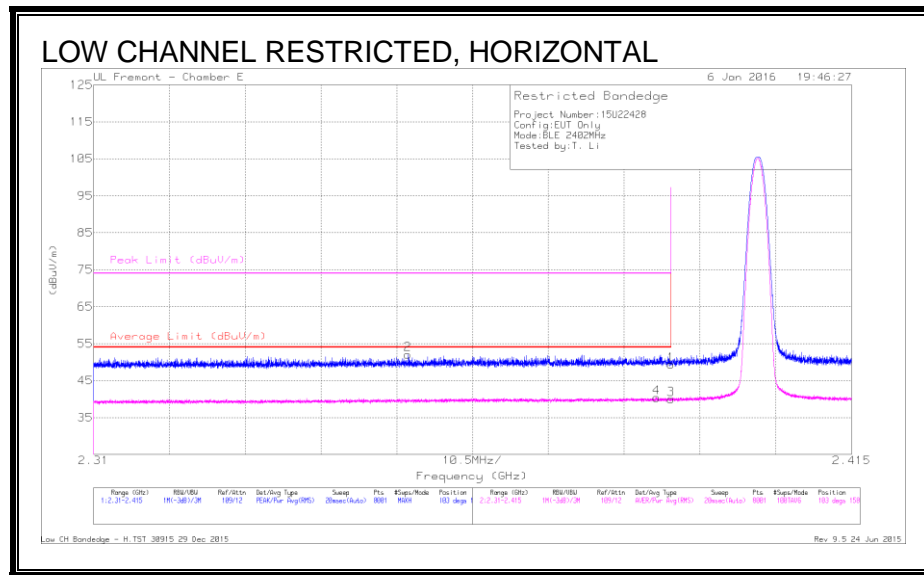
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.212	41.64	PK2	31.5	-21.2	51.94	-	-	74	-22.06	360	100	V
* 2.215	30.33	MAV1	31.5	-21.2	40.63	54	-13.37	-	-	360	100	V
* 3.707	39.61	PK2	34.6	-29.5	44.71	-	-	74	-29.29	360	100	H
* 3.708	28.19	MAV1	34.6	-29.5	33.29	54	-20.71	-	-	360	100	H
* 4.959	41.26	PK2	34.1	-28.7	46.66	-	-	74	-27.34	239	126	H
* 4.96	33.15	MAV1	34.1	-28.7	38.55	54	-15.45	-	-	239	126	H
* 10.811	34.44	PK2	38	-22.3	50.14	-	-	74	-23.86	239	202	H
* 10.808	23.22	MAV1	38	-22.3	38.92	54	-15.08	-	-	239	202	H
* 4.757	38.31	PK2	34.1	-28.3	44.11	-	-	74	-29.89	239	202	V
* 4.758	27.5	MAV1	34.1	-28.3	33.3	54	-20.7	-	-	239	202	V
* 4.96	39.12	PK2	34.1	-28.7	44.52	-	-	74	-29.48	130	177	V
* 4.96	29.29	MAV1	34.1	-28.7	34.69	54	-19.31	-	-	130	177	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

8.2.4. ANTENNA D RESTRICTED BANDEDGE



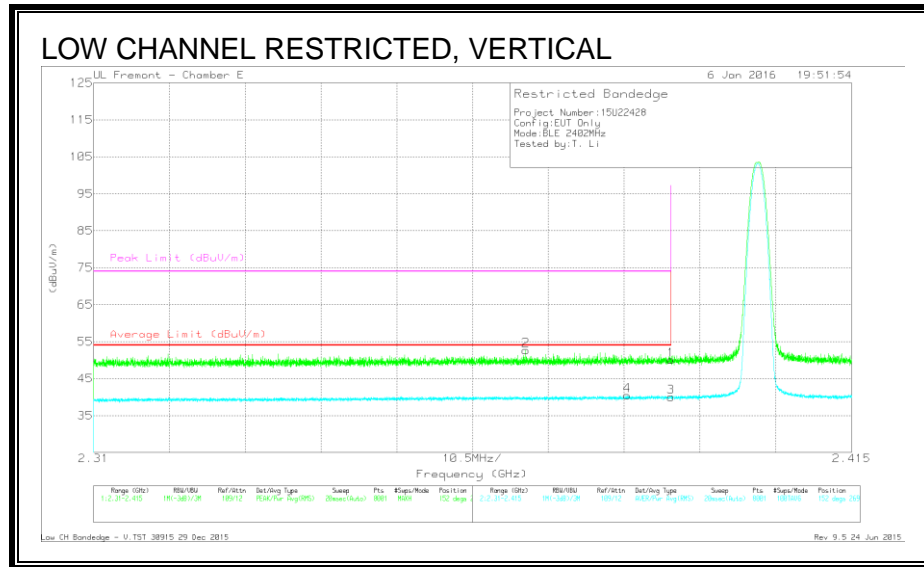
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.354	40.2	Pk	32	-20.1	52.1	-	-	74	-21.9	103	158	H
4	* 2.388	28.19	RMS	32.1	-19.9	40.39	54	-13.61	-	-	103	158	H
1	* 2.39	37.16	Pk	32.1	-19.9	49.36	-	-	74	-24.64	103	158	H
3	* 2.39	27.78	RMS	32.1	-19.9	39.98	54	-14.02	-	-	103	158	H

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

Pk - Peak detector

RMS - RMS detection



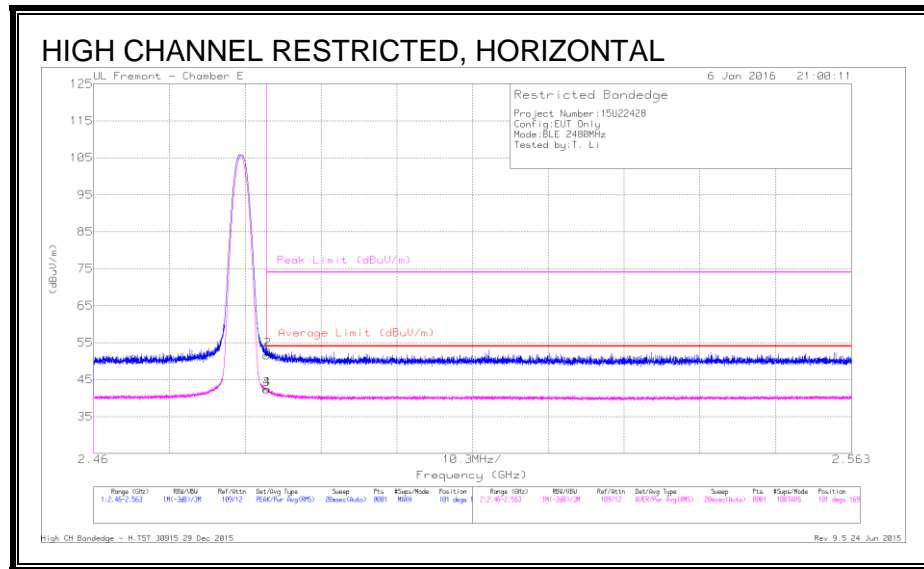
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.37	40.67	Pk	32	-20	52.67	-	-	74	-21.33	152	269	V
4	* 2.384	28.36	RMS	32	-19.9	40.46	54	-13.54	-	-	152	269	V
1	* 2.39	37.87	Pk	32.1	-19.9	50.07	-	-	74	-23.93	152	269	V
3	* 2.39	27.81	RMS	32.1	-19.9	40.01	54	-13.99	-	-	152	269	V

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

Pk - Peak detector

RMS - RMS detection



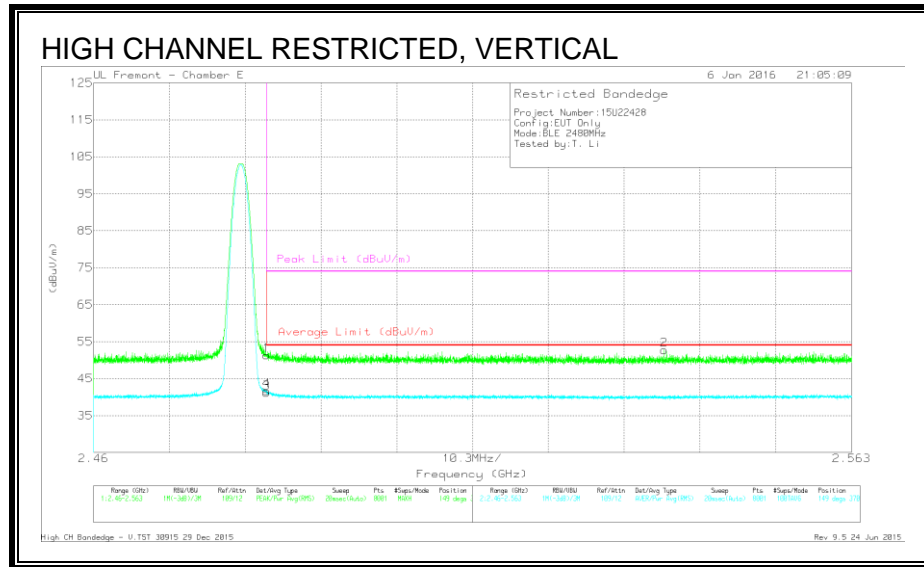
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.35	Pk	32.2	-20	51.55	-	-	74	-22.45	101	169	H
2	* 2.484	40.81	Pk	32.2	-20	53.01	-	-	74	-20.99	101	169	H
3	* 2.484	30.19	RMS	32.2	-20	42.39	54	-11.61	-	-	101	169	H
4	* 2.484	30.16	RMS	32.2	-20	42.36	54	-11.64	-	-	101	169	H

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

Pk - Peak detector

RMS - RMS detection



DATA

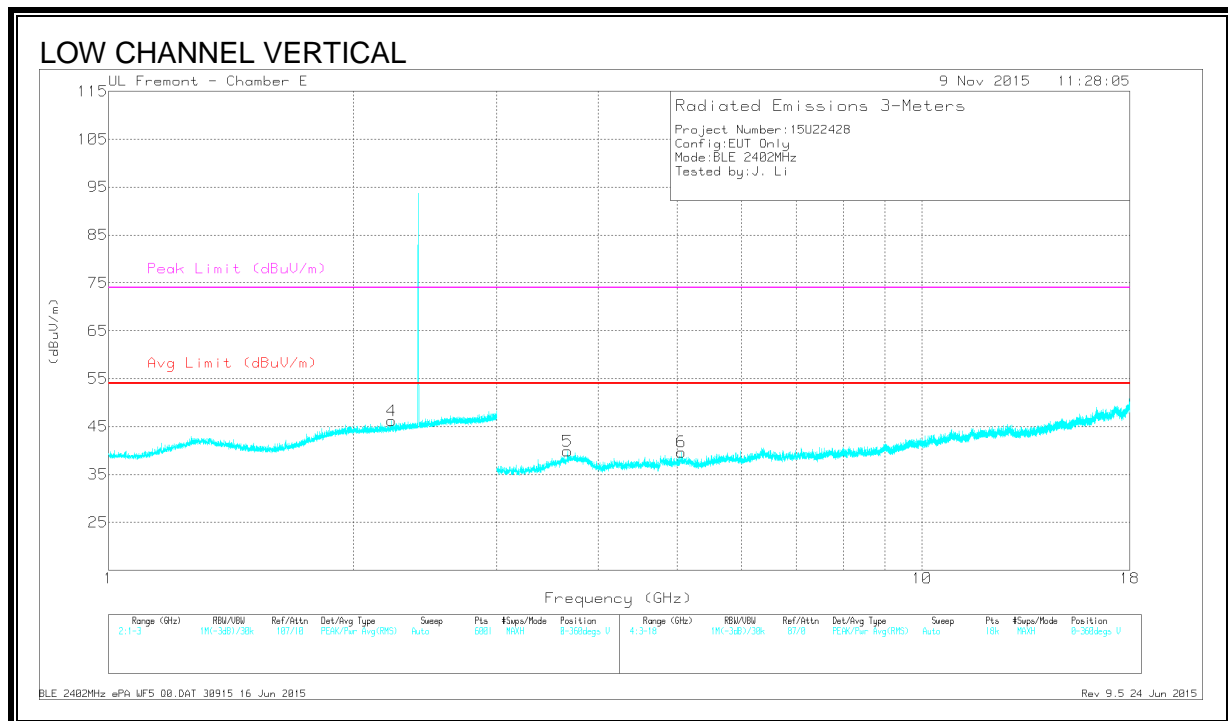
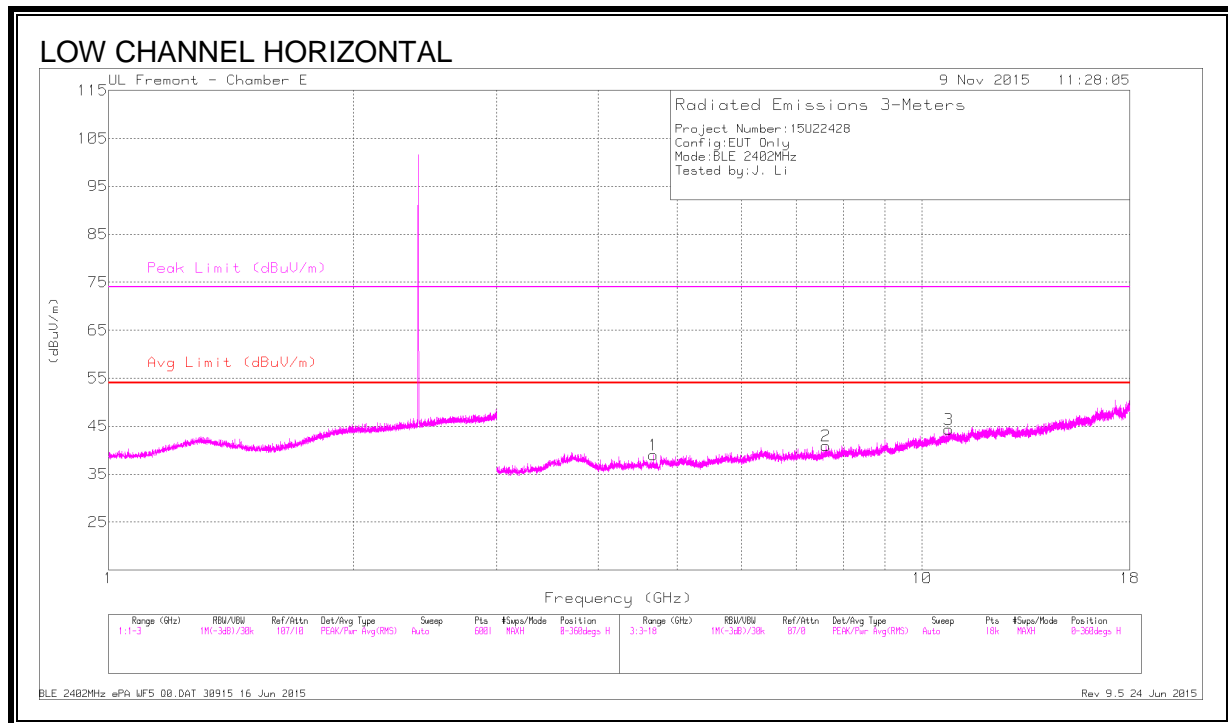
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.07	Pk	32.2	-20	51.27	-	-	74	-22.73	149	370	V
3	* 2.484	28.93	RMS	32.2	-20	41.13	54	-12.87	-	-	149	370	V
4	* 2.484	29.51	RMS	32.2	-20	41.71	54	-12.29	-	-	149	370	V
2	2.538	40.72	Pk	32.2	-20.2	52.72	-	-	74	-21.28	149	370	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



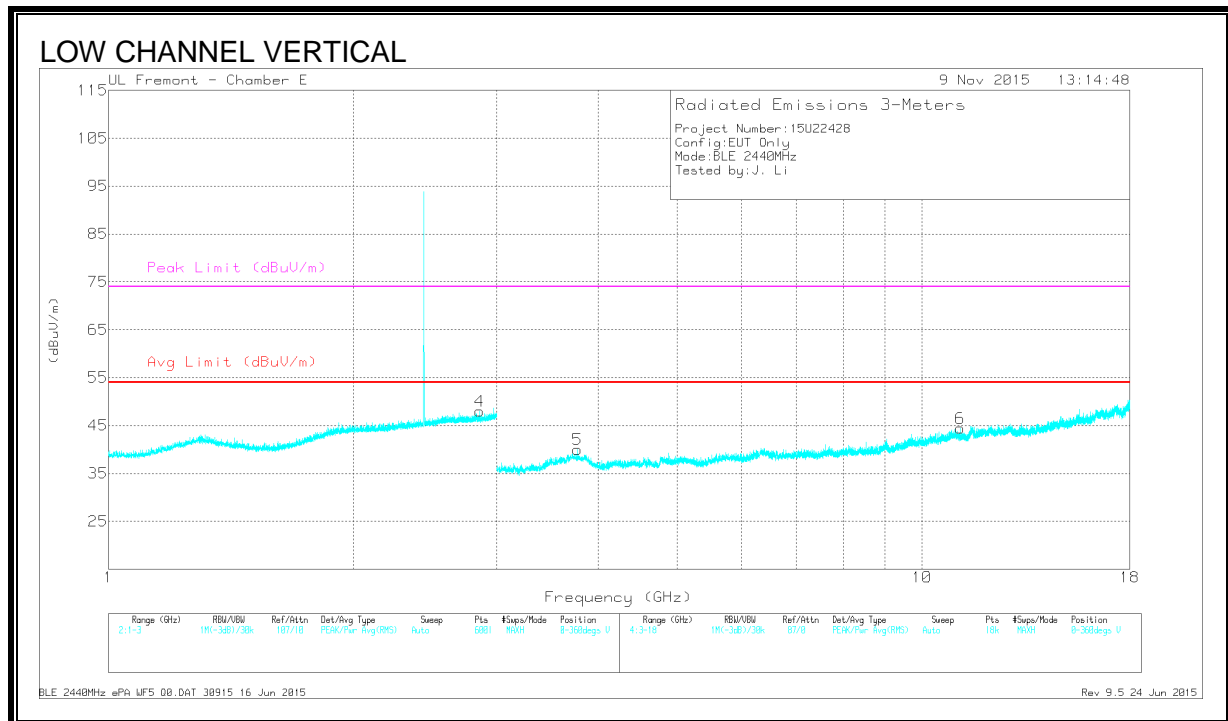
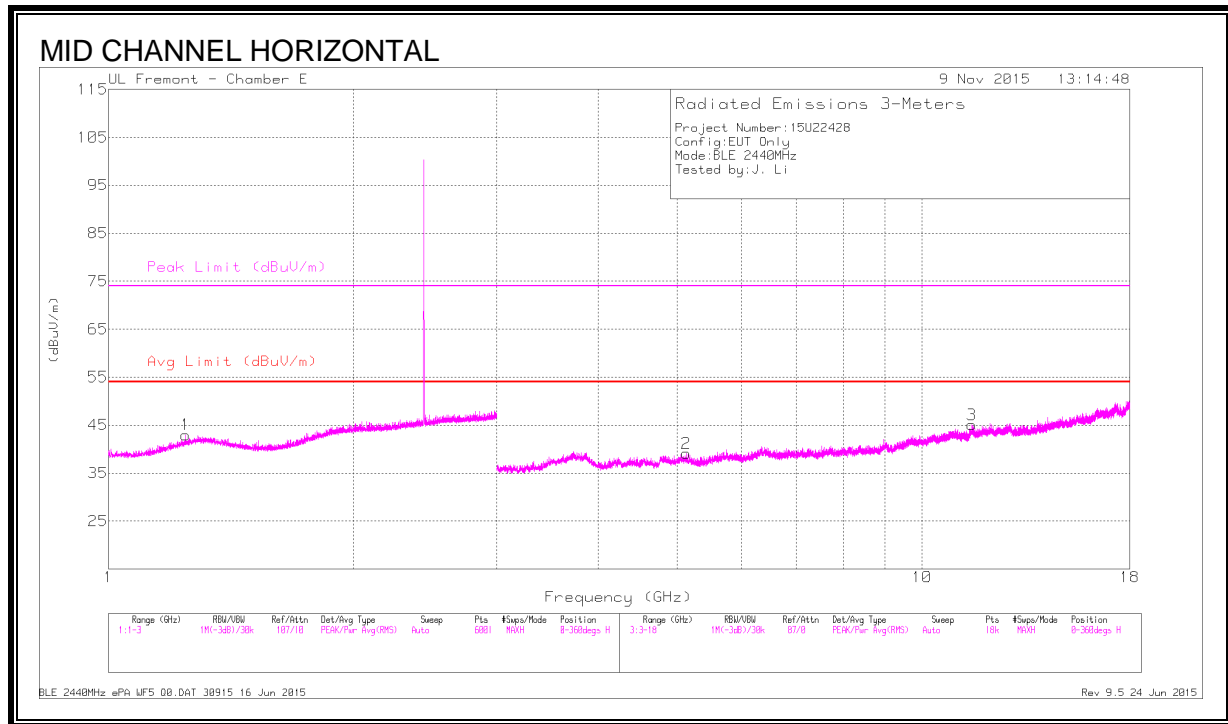
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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.227	42.7	PK2	31.5	-21.1	53.1	-	-	74	-20.9	360	100	V
* 2.226	30.36	MAV1	31.5	-21.1	40.76	54	-13.24	-	-	360	100	V
* 4.678	38.85	PK2	34	-29.1	43.75	-	-	74	-30.25	360	202	H
* 4.677	27.9	MAV1	34	-29.1	32.8	54	-21.2	-	-	360	202	H
* 7.624	36.49	PK2	35.8	-25.7	46.59	-	-	74	-27.41	360	101	H
* 7.622	25.58	MAV1	35.8	-25.7	35.68	54	-18.32	-	-	360	101	H
* 10.778	34.53	PK2	38	-22.3	50.23	-	-	74	-23.77	360	101	H
* 10.778	23.24	MAV1	38	-22.3	38.94	54	-15.06	-	-	360	101	H
* 3.663	39.07	PK2	34.8	-29.4	44.47	-	-	74	-29.53	360	101	V
* 3.667	27.87	MAV1	34.8	-29.4	33.27	54	-20.73	-	-	360	101	V
* 5.064	38.15	PK2	34.2	-28.1	44.25	-	-	74	-29.75	360	101	V
* 5.063	27.21	MAV1	34.2	-28.1	33.31	54	-20.69	-	-	360	101	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



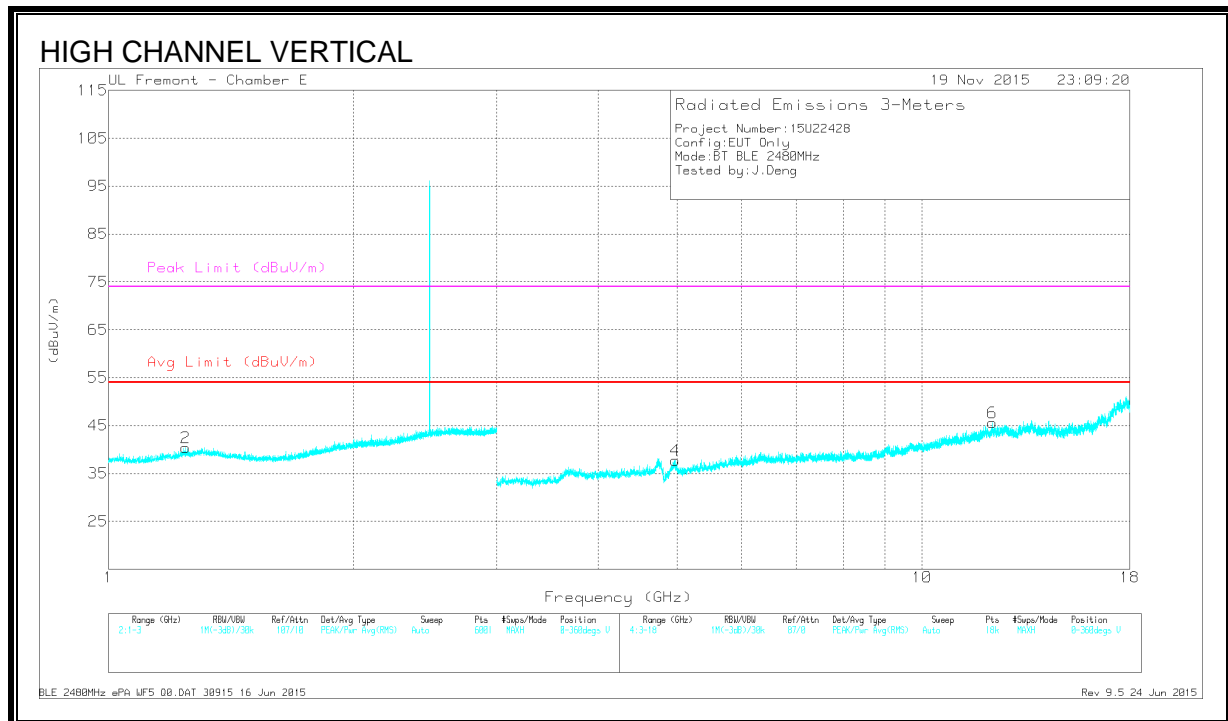
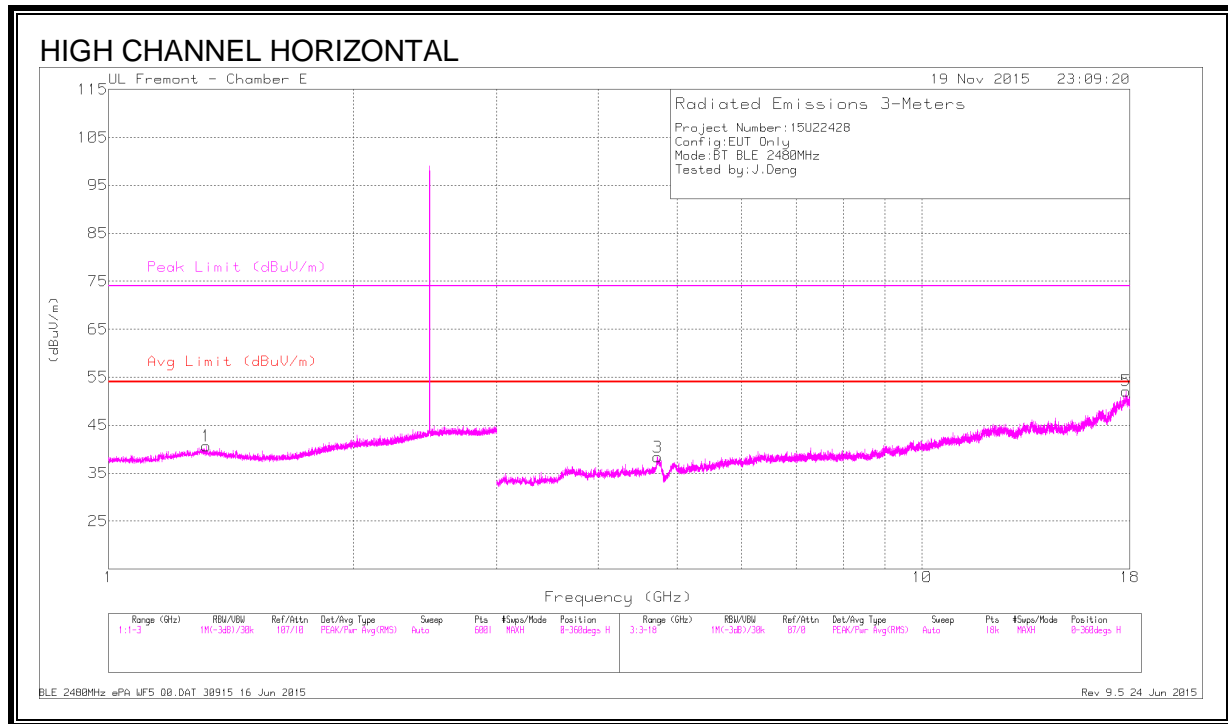
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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.243	41.87	PK2	29.4	-22.4	48.87	-	-	74	-25.13	360	101	H
* 1.243	30.57	MAV1	29.4	-22.4	37.57	54	-16.43	-	-	360	101	H
* 2.859	42.32	PK2	32.7	-20.4	54.62	-	-	74	-19.38	360	201	V
* 2.859	30.04	MAV1	32.7	-20.4	42.34	54	-11.66	-	-	360	201	V
* 5.127	37.42	PK2	34.2	-27.3	44.32	-	-	74	-29.68	360	101	H
* 5.128	26.61	MAV1	34.2	-27.3	33.51	54	-20.49	-	-	360	101	H
* 11.505	33.78	PK2	38.6	-21.2	51.18	-	-	74	-22.82	360	101	H
* 11.506	23.02	MAV1	38.6	-21.2	40.42	54	-13.58	-	-	360	101	H
* 3.77	38.48	PK2	34.3	-29.1	43.68	-	-	74	-30.32	360	101	V
* 3.768	27.64	MAV1	34.3	-29.1	32.84	54	-21.16	-	-	360	101	V
* 11.132	33.94	PK2	38.1	-22.2	49.84	-	-	74	-24.16	360	201	V
* 11.131	23.16	MAV1	38.1	-22.2	39.06	54	-14.94	-	-	360	201	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/ Fitr/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	* 1.323	44.38	PK2	29.2	-25.6	47.98	-	-	74	-26.02	98	123	H
	* 1.311	30.41	MAV1	29.3	-25.6	34.11	54	-19.89	-	-	98	123	H
2	* 1.246	44.07	PK2	28.8	-25.7	47.17	-	-	74	-26.83	83	109	V
	* 1.242	30.59	MAV1	28.8	-25.7	33.69	54	-20.31	-	-	83	109	V
3	* 4.725	43.47	PK2	33.9	-32.3	45.07	-	-	74	-28.93	192	197	H
	* 4.737	30.66	MAV1	33.9	-32.4	32.16	54	-21.84	-	-	192	197	H
5	* 17.801	36.56	PK2	41.4	-19.1	58.86	-	-	74	-15.14	95	112	H
	* 17.8	23.25	MAV1	41.4	-19.1	45.55	54	-8.45	-	-	95	112	H
4	* 4.97	43.64	PK2	34.2	-32.4	45.44	-	-	74	-28.56	150	129	V
	* 4.966	30.14	MAV1	34.2	-32.4	31.94	54	-22.06	-	-	150	129	V
6	* 12.201	37.91	PK2	39	-25	51.91	-	-	74	-22.09	175	291	V
	* 12.2	25.22	MAV1	39	-25	39.22	54	-14.78	-	-	175	291	V

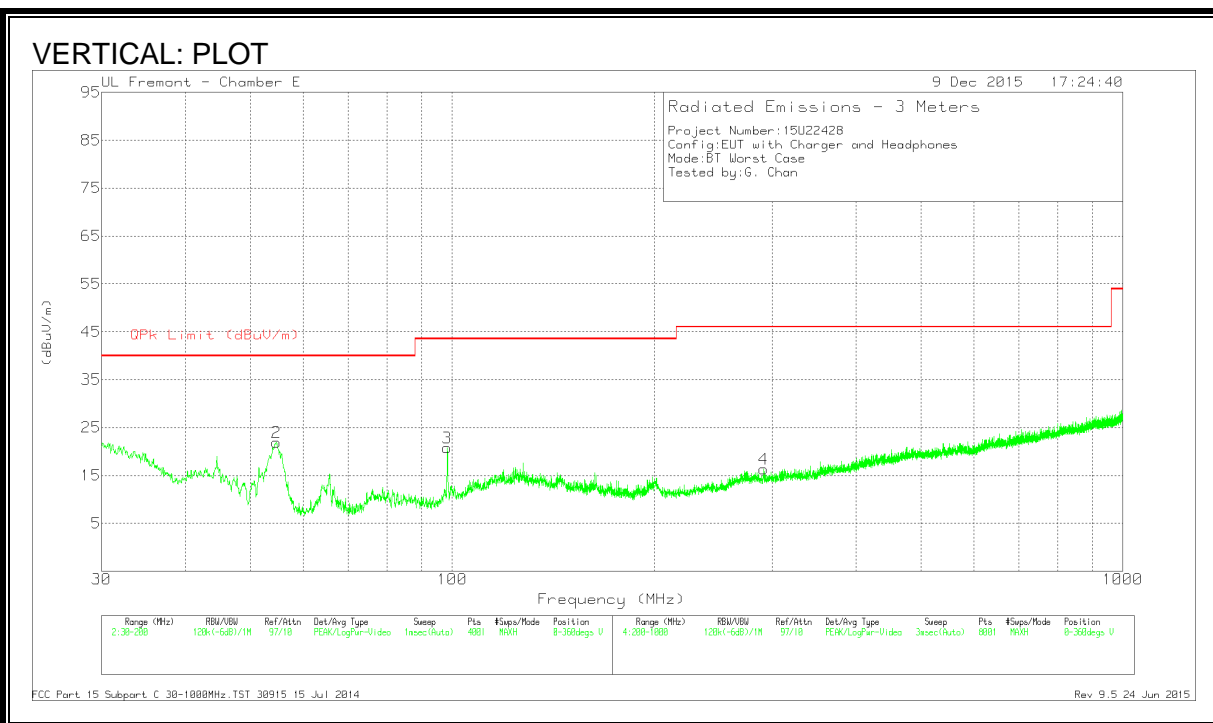
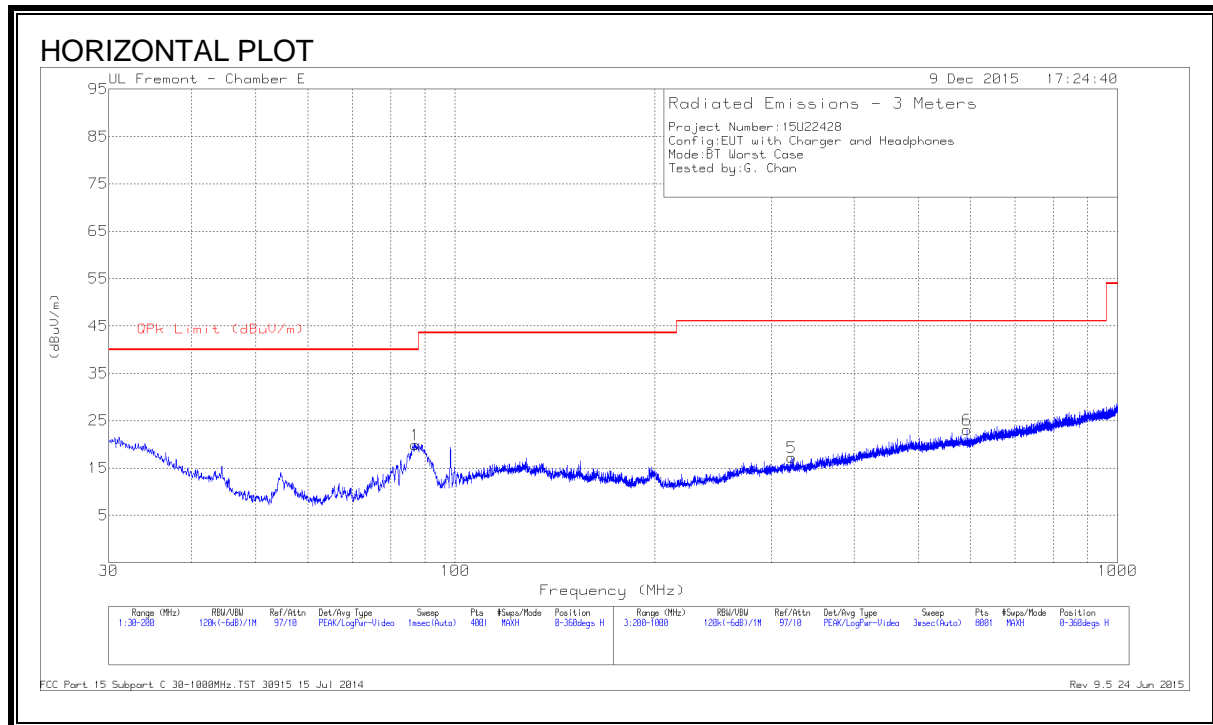
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

8.3. WORST-CASE BELOW 1 GHz

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



DATA

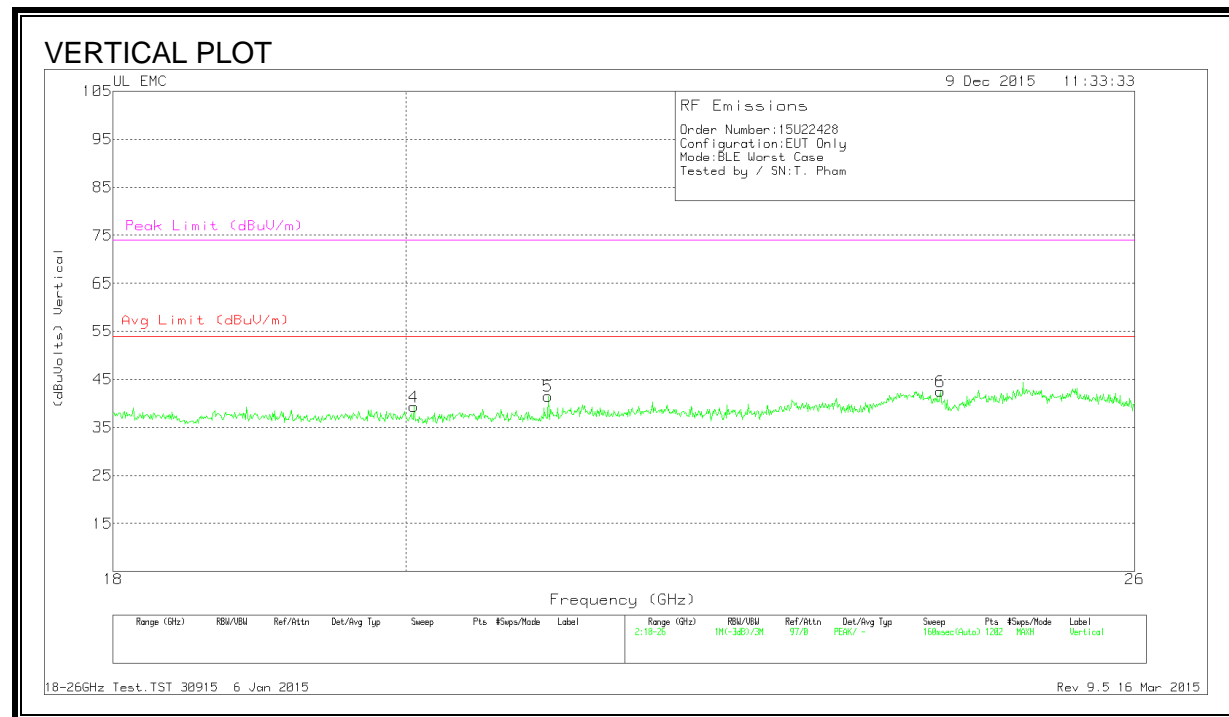
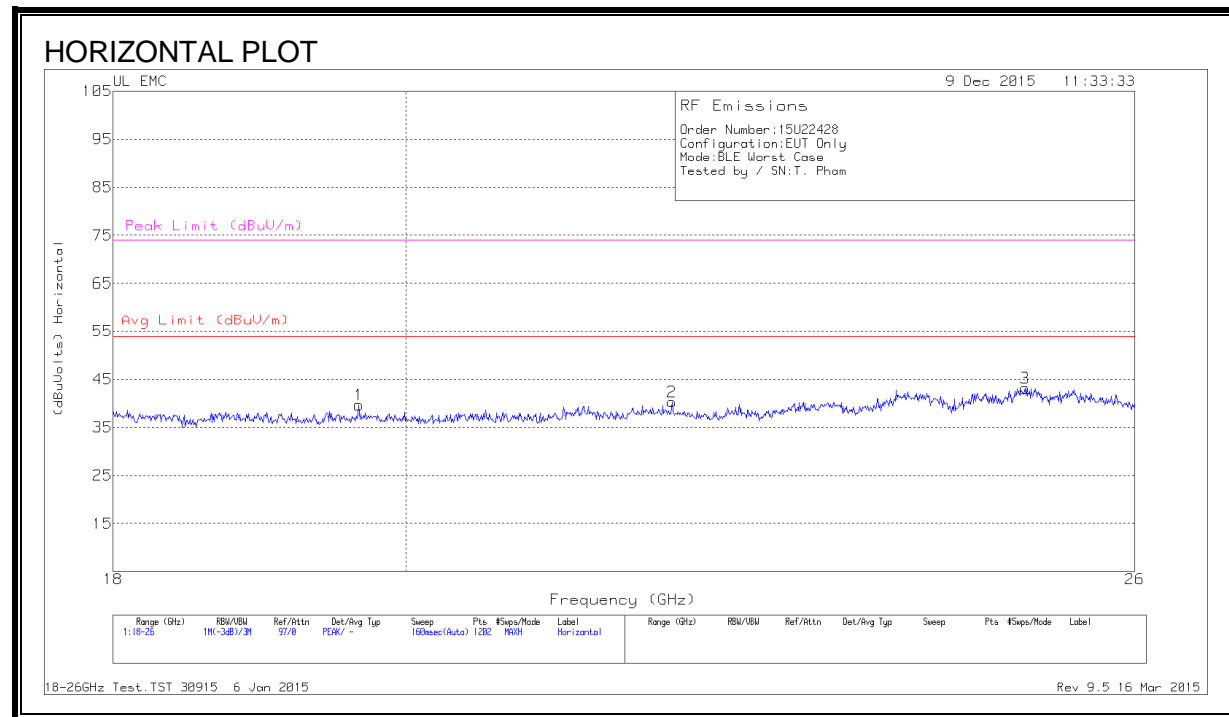
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 322	29.48	Pk	17.9	-30.1	17.28	46.02	-28.74	0-360	401	H
2	54.6925	42.31	Pk	11.2	-31.6	21.91	40	-18.09	0-360	100	V
1	87.12	39.94	Pk	11.3	-31.4	19.84	40	-20.16	0-360	301	H
3	98.34	38.52	Pk	13.7	-31.4	20.82	43.52	-22.7	0-360	100	V
4	291.6	29.58	Pk	17.2	-30.4	16.38	46.02	-29.64	0-360	99	V
6	592.7	30.16	Pk	22.3	-29.4	23.06	46.02	-22.96	0-360	301	H

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

Pk - Peak detector

8.4. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 to 26 GHz (WORST-CASE CONFIGURATION)



DATA

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	19.665	41.57	Pk	32.5	-24.9	-9.5	39.67	54	-14.33	74	-34.33
2	22.01	41.83	Pk	33.2	-25.2	-9.5	40.33	54	-13.67	74	-33.67
3	24.994	42.97	Pk	34.2	-24.5	-9.5	43.17	54	-10.83	74	-30.83
4	20.058	40.93	Pk	32.9	-25	-9.5	39.33	54	-14.67	74	-34.67
5	21.051	43.7	Pk	32.6	-25.3	-9.5	41.5	54	-12.5	74	-32.5
6	24.241	42.8	Pk	33.5	-24.3	-9.5	42.5	54	-11.5	74	-31.5

Pk - Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

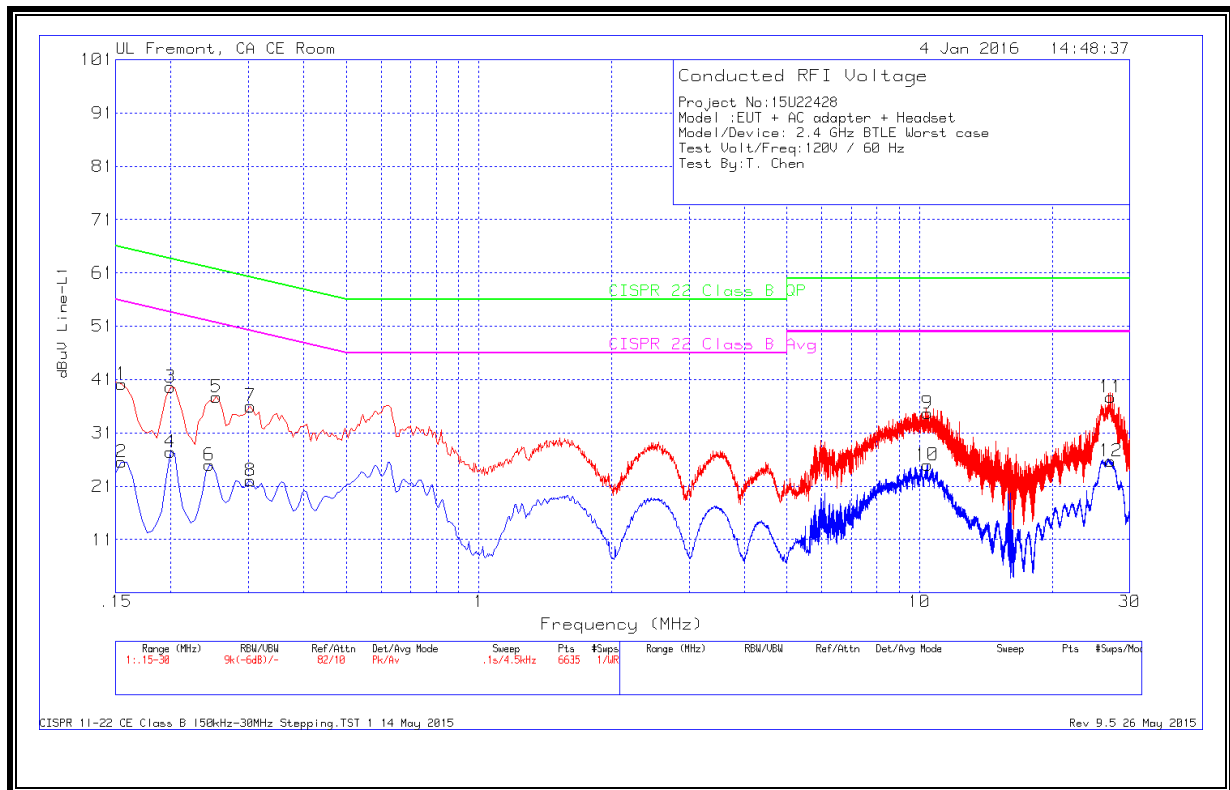
C63.10.

RESULTS

12 WORST EMISSIONS

9.1. EUT POWERED BY AC/DC ADAPTER VIA USB CABLE

LINE 1 RESULTS



WORST EMISSIONS

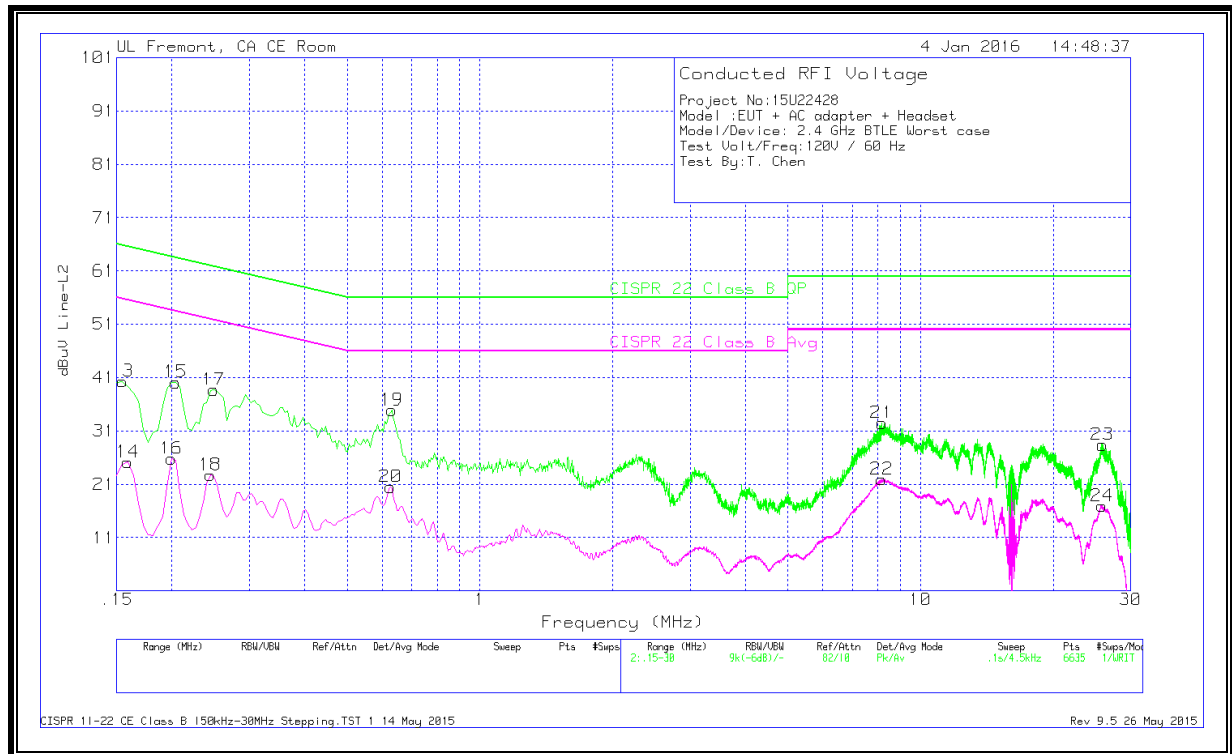
Range 1: Line-L1 15 - 30MHz

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	38.86	Pk	1.3	0	40.16	65.75	-25.59	-	-
2	.1545	24.25	Av	1.3	0	25.55	-	-	55.75	-30.2
3	.1995	38.7	Pk	.9	0	39.6	63.63	-24.03	-	-
4	.1995	26.53	Av	.9	0	27.43	-	-	53.63	-26.2
5	.2535	37.03	Pk	.7	0	37.73	61.64	-23.91	-	-
6	.2445	24.27	Av	.7	0	24.97	-	-	51.94	-26.97
7	.303	35.48	Pk	.5	0	35.98	60.16	-24.18	-	-
8	.303	21.52	Av	.5	0	22.02	-	-	50.16	-28.14
9	10.419	34.31	Pk	.2	.2	34.71	60	-25.29	-	-
10	10.419	24.6	Av	.2	.2	25	-	-	50	-25
11	27.1635	37.07	Pk	.3	.3	37.67	60	-22.33	-	-
12	27.1635	25.1	Av	.3	.3	25.7	-	-	50	-24.3

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz

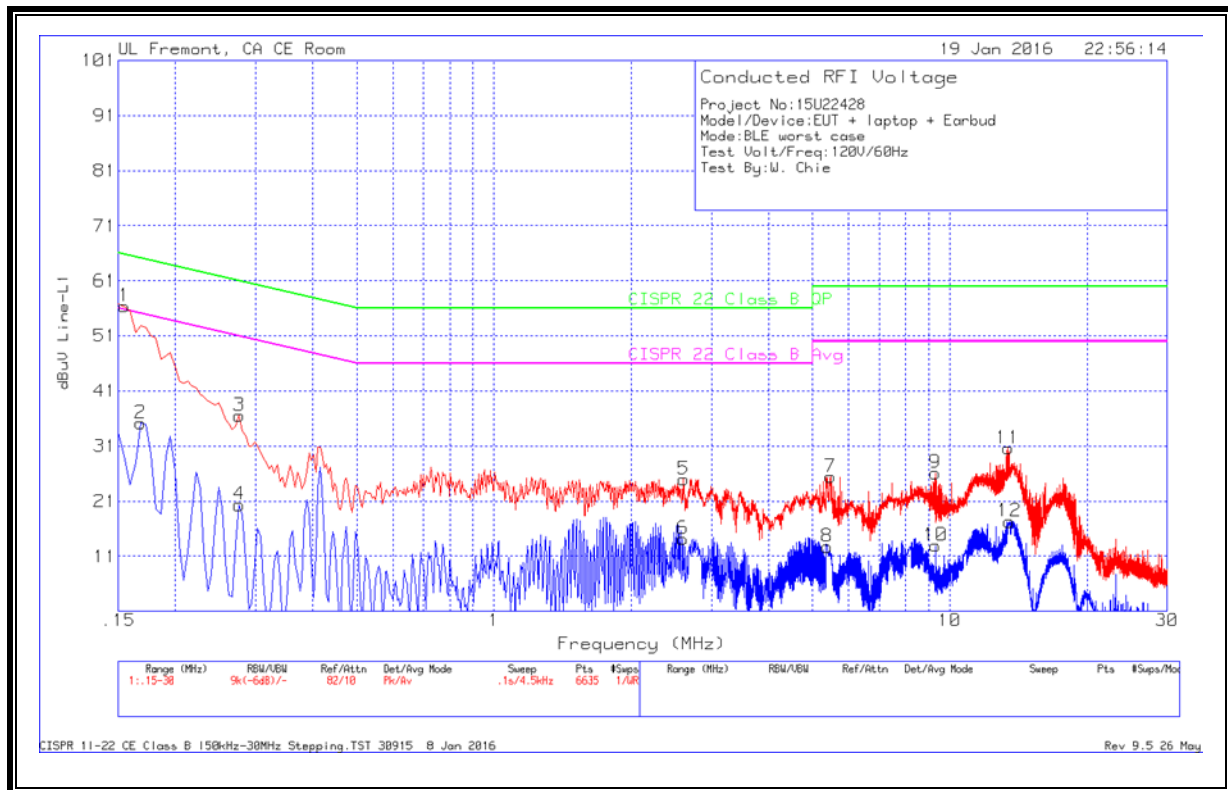
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
13	.1545	38.88	Pk	1.4	0	40.28	65.75	-25.47	-	-
14	.159	23.72	Av	1.4	0	25.12	-	-	55.52	-30.4
15	.204	39.09	Pk	1	0	40.09	63.45	-23.36	-	-
16	.1995	24.78	Av	1	0	25.78	-	-	53.63	-27.85
17	.249	37.99	Pk	.7	0	38.69	61.79	-23.1	-	-
18	.2445	21.92	Av	.8	0	22.72	-	-	51.94	-29.22
19	.6315	34.59	Pk	.3	0	34.89	56	-21.11	-	-
20	.627	20.17	Av	.3	0	20.47	-	-	46	-25.53
21	8.178	32.17	Pk	.2	.1	32.47	60	-27.53	-	-
22	8.1645	21.58	Av	.2	.1	21.88	-	-	50	-28.12
23	25.863	27.77	Pk	.3	.3	28.37	60	-31.63	-	-
24	25.8405	16.32	Av	.3	.3	16.92	-	-	50	-33.08

Pk - Peak detector

Av - Average detection

9.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



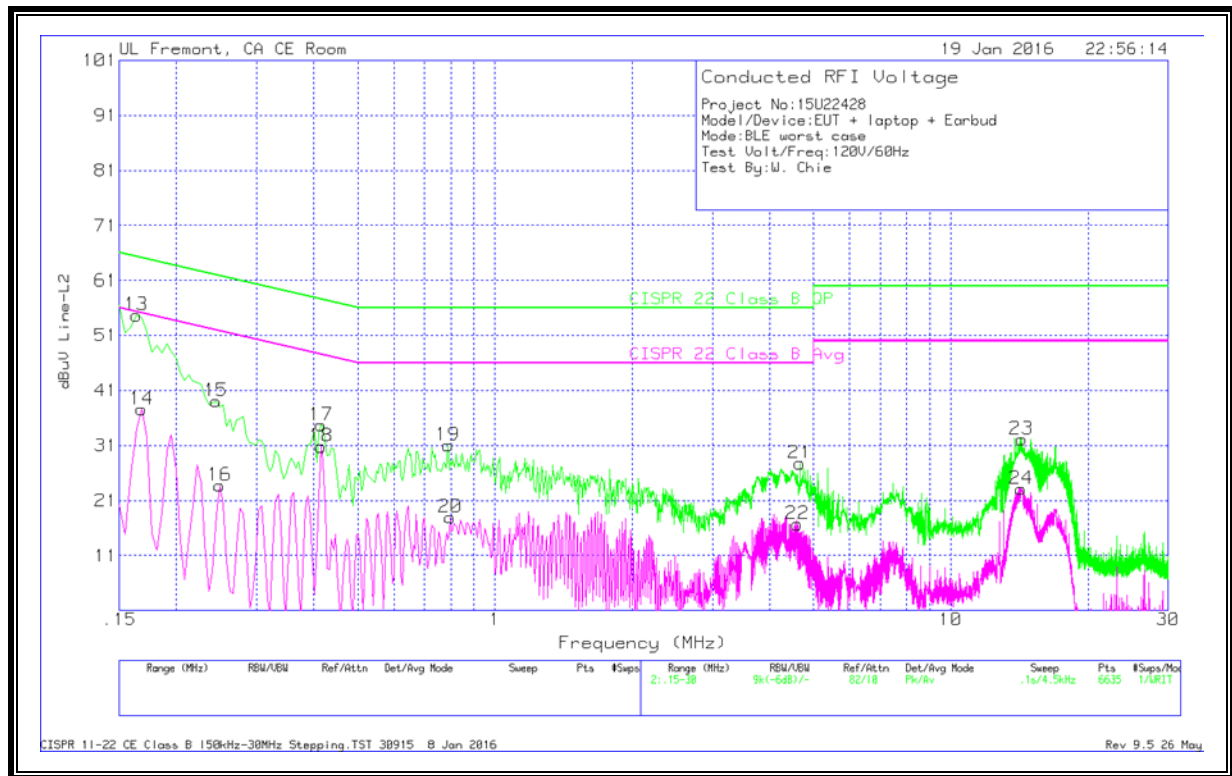
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T1310 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	56.39	Pk	0	0	56.39	65.75	-9.36	-	-
2	.168	35.16	Av	0	0	35.16	-	-	55.06	-19.9
3	.276	36.53	Pk	0	0	36.53	60.94	-24.41	-	-
4	.276	20.32	Av	0	0	20.32	-	-	50.94	-30.62
5	2.607	24.87	Pk	0	.1	24.97	56	-31.03	-	-
6	2.5935	14.05	Av	0	.1	14.15	-	-	46	-31.85
7	5.4735	25.34	Pk	0	.1	25.44	60	-34.56	-	-
8	5.3835	12.63	Av	0	.1	12.73	-	-	50	-37.27
9	9.303	26.01	Pk	0	.1	26.11	60	-33.89	-	-
10	9.3075	12.81	Av	0	.1	12.91	-	-	50	-37.09
11	13.4295	30.3	Pk	.1	.2	30.6	60	-29.4	-	-
12	13.5195	17	Av	.1	.2	17.3	-	-	50	-32.7

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T1310 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
13	.1635	54.68	Pk	0	0	54.68	65.28	-10.6	-	-
14	.168	37.6	Av	0	0	37.6	-	-	55.06	-17.46
15	.2445	39.04	Pk	0	0	39.04	61.94	-22.9	-	-
16	.249	23.73	Av	0	0	23.73	-	-	51.79	-28.06
17	.4155	34.69	Pk	0	0	34.69	57.54	-22.85	-	-
18	.4155	30.81	Av	0	0	30.81	-	-	47.54	-16.73
19	.789	31.05	Pk	0	0	31.05	56	-24.95	-	-
20	.798	17.93	Av	0	0	17.93	-	-	46	-28.07
21	4.668	27.66	Pk	0	.1	27.76	56	-28.24	-	-
22	4.6095	16.58	Av	0	.1	16.68	-	-	46	-29.32
23	14.298	31.83	Pk	.1	.2	32.13	60	-27.87	-	-
24	14.289	22.81	Av	.1	.2	23.11	-	-	50	-26.89

Pk - Peak detector

Av - Average detection