CERTIFICATION TEST REPORT

Report Number. : 16U23555-E2V2

Applicant	:	Google Inc. 1600 Amphitheatre Parkway Mountain View, CA 94043 U.S.A
Model	:	NC2-6A5-D
FCC ID	:	A4RNC2-6A5-D
IC ID	:	10395A-NC26A5D
EUT Description	:	Internet Video Streaming Device
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-247 ISSUE 1

Date of Issue:
Thursday, July 28, 2016

Prepared by:
UL Verification Services Inc.
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NVLAP LAB CODE 200065-0

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	7/25/2016	Initial Issue	---
V2	7/28/2016	Revision to EUT Description	7/28/16

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UL VERIFICATION SERVICES INC.
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Google Inc.
1600 Amphitheatre Parkway
Mountain View, CA 94043 U.S.A

EUT DESCRIPTION: Internet Video Streaming Device

MODEL: NC2-6A5-D

SERIAL NUMBER: 6520CZZAXV (Radiated) 6520CZZAYG (Conducted)

DATE TESTED: June 17th 2016 – July 20th 2016

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:

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Prepared By:

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Lab Engineer
UL Verification Services Inc.

2. SUMMARY OF TESTING

2.1. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
☒ Chamber A(IC: 2324B-1)	☐ Chamber D(IC: 2324B-4)
☒ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 2324B-5)
☐ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 2324B-6)
	☐ Chamber G(IC: 2324B-7)
	☐ Chamber H(IC: 2324B-8)

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

2.2. TEST METHODOLOGY

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

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2.3. CALIBRATION AND UNCERTAINTY

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.

SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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%.

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2.4. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 558074 D01 v03r05, Section 6.

6 dB Emission BW: KDB 558074 D01 v03r05, Section 8.

Conducted Output Power: KDB 558074 D01 v03r05, Section 9.2.3.2 (Method AVGPM-G).

Power Spectral Density: KDB 558074 D01 v03r05, Section 10.3 (Method AVGPSD-1).

Unwanted emissions in restricted bands: KDB 558074 D01 v03r05, Section 12.0, 12.2.

Unwanted emissions in non-restricted bands: KDB 558074 D01 v03r05, Section 11.1, 11.2, and 11.3

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

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2.5. 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**	**ID Num**	**Cal Due**
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB3	T899	05/26/17
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	T130	09/01/16
Antenna, Horn, 1-18GHz	ETS Lindgren	3117	T346	02/22/17
Antenna, Horn, 1-18GHz	ETS Lindgren	3117	T345	03/07/17
Antenna, Horn, 18-26 GHz	ARA	MWH-1826/B	T449	05/26/17
RF Preamplifier, 10kHz - 1GHz	Sonoma	310N	T300	11/05/16
RF Preamplifier, 10kHz - 1GHz	HP	8447D	T10	02/01/17
RF Preamplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T1165	07/19/16
RF Preamplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T493	03/09/17
RF Preamplifier, 1 - 7GHz	Amplical	AMP1G6-10-27	T1370	04/15/17
RF Preamplifier, 1 - 8GHz	Miteq	AMF-4D-01000800-30-29P	T1156	03/09/17
RF Preamplifier, 1 - 26GHz	Agilent	8449B	T404	06/29/16
Spectrum Analyzer, 44 GHz	Keysight	N9030A	T908	04/13/17
Spectrum Analyzer, 44 GHz	Keysight	N9030A	T907	01/06/17
Spectrum Analyzer, 44 GHz	Keysight	N9030A	T339	09/14/16
Spectrum Analyzer, 44 GHz	Keysight	E440A	T198	12/12/16
Spectrum Analyzer, 40 GHz	HP	8564E	T106	08/14/16
EMI Test Receiver, 9 kHz to 7 GHz	Rohde & Schwarz	ESR	T1436	12/19/16
Power Meter	Keysight	N1911A	T1264	07/01/16
Power Sensor	Keysight	N1921A	T1223	02/28/17
LISN, 30 MHz	FCC	FCC-LISN-50/250-25-2-01	T1310	06/08/17
Low Pass Filter 3GHz	Micro-Tronics	HPM17543	T486	07/19/16

Test Software List			
Description	**Manufacturer**	**Model**	**Version**
Radiated Software	UL	UL EMC	9.5, 4/26/16
Antenna Port Software	UL	UL RF	5.0, 6/22/16
Conducted Emissions Software	UL	UL EMC	9.5, 5/26/15

3. EQUIPMENT UNDER TEST

3.1. MAXIMUM OUTPUT POWER

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

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	18.26	66.99
2412 - 2462	802.11g	18.23	66.53
2412 - 2462	802.11n HT20	18.37	68.71
2422 - 2452	802.11n HT40	14.32	27.04

3.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PCB antenna, with a maximum gain of 3.7dBi

3.3. WORST-CASE CONFIGURATION AND MODE

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

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

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

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

3.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
AC Adapter	HP	HSTNN-LA40	WDUV0B3U8HK1Y	DoC
Laptop	HP	11-d001ax	5CD51643JG	DoC

I/O CABLES

I/O Cable List						
Cable No	**Port**	**# of identical ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	USB	1	Micro USB	unshielded	2	
2	USB	1	Micro USB	unshielded	0.2	Y-cable
3	USB	1	USB	unshielded	2.5	USB serial cable
4	DC	1	Barrel	unshielded	1.7	
5	AC	1	3 prong	unshielded	1	

TEST SETUP

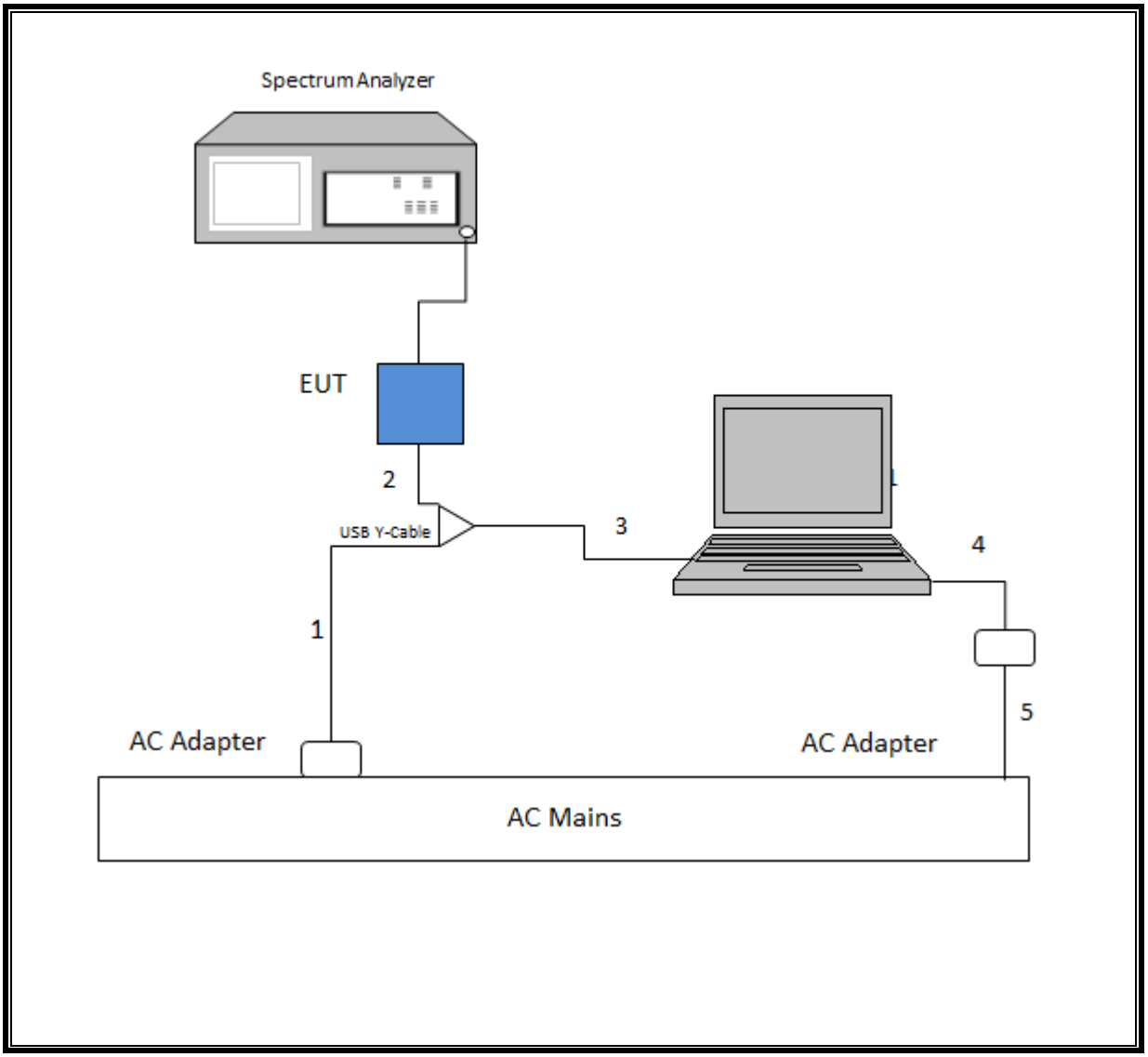
The EUT is connected to a test laptop during the tests. Test software exercised the radio card.

SOFTWARE AND FIRMWARE

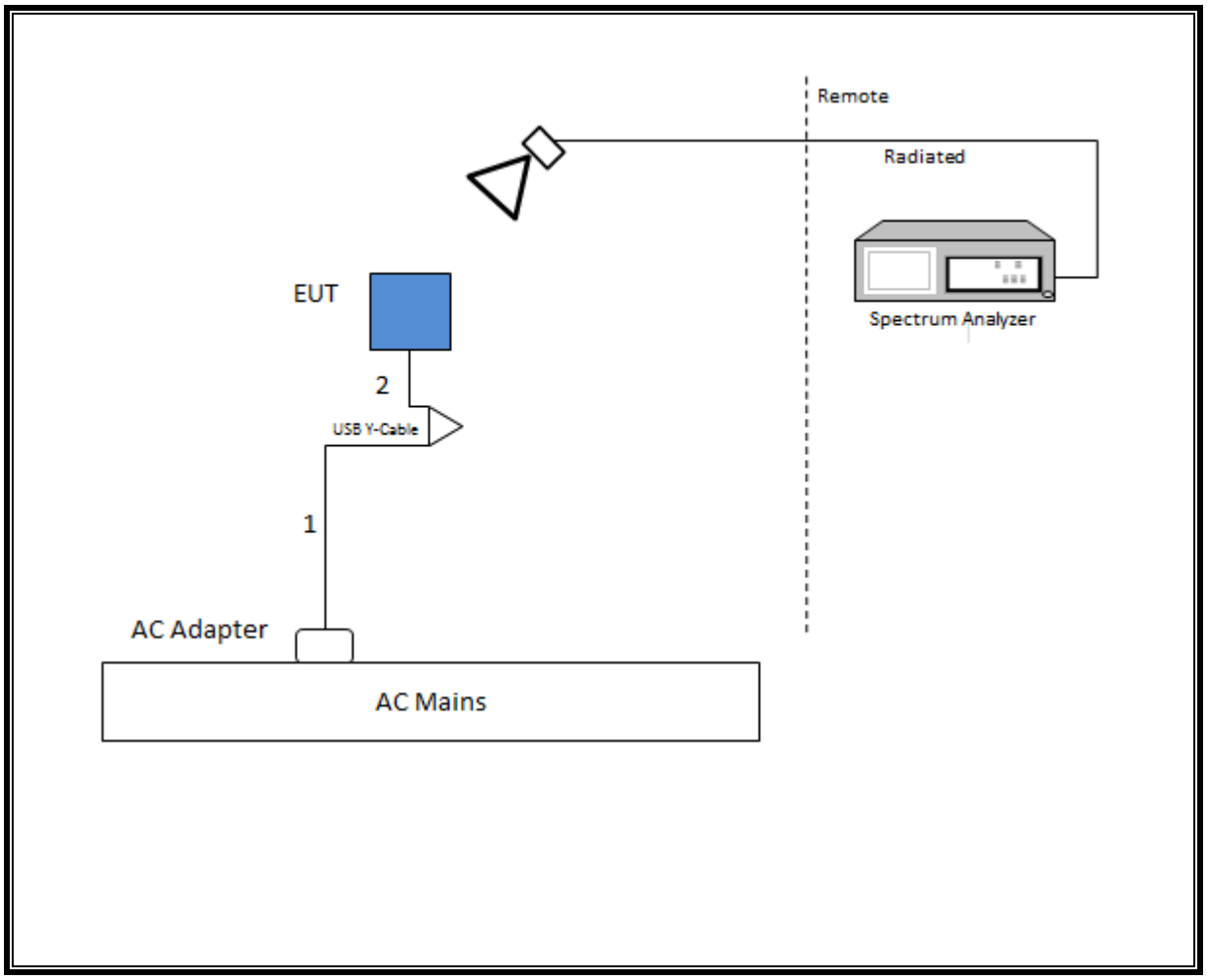
The firmware installed in the EUT during testing was 16.80.205.82

The test utility software used during testing was Labtool ver. 1.0.0.82.

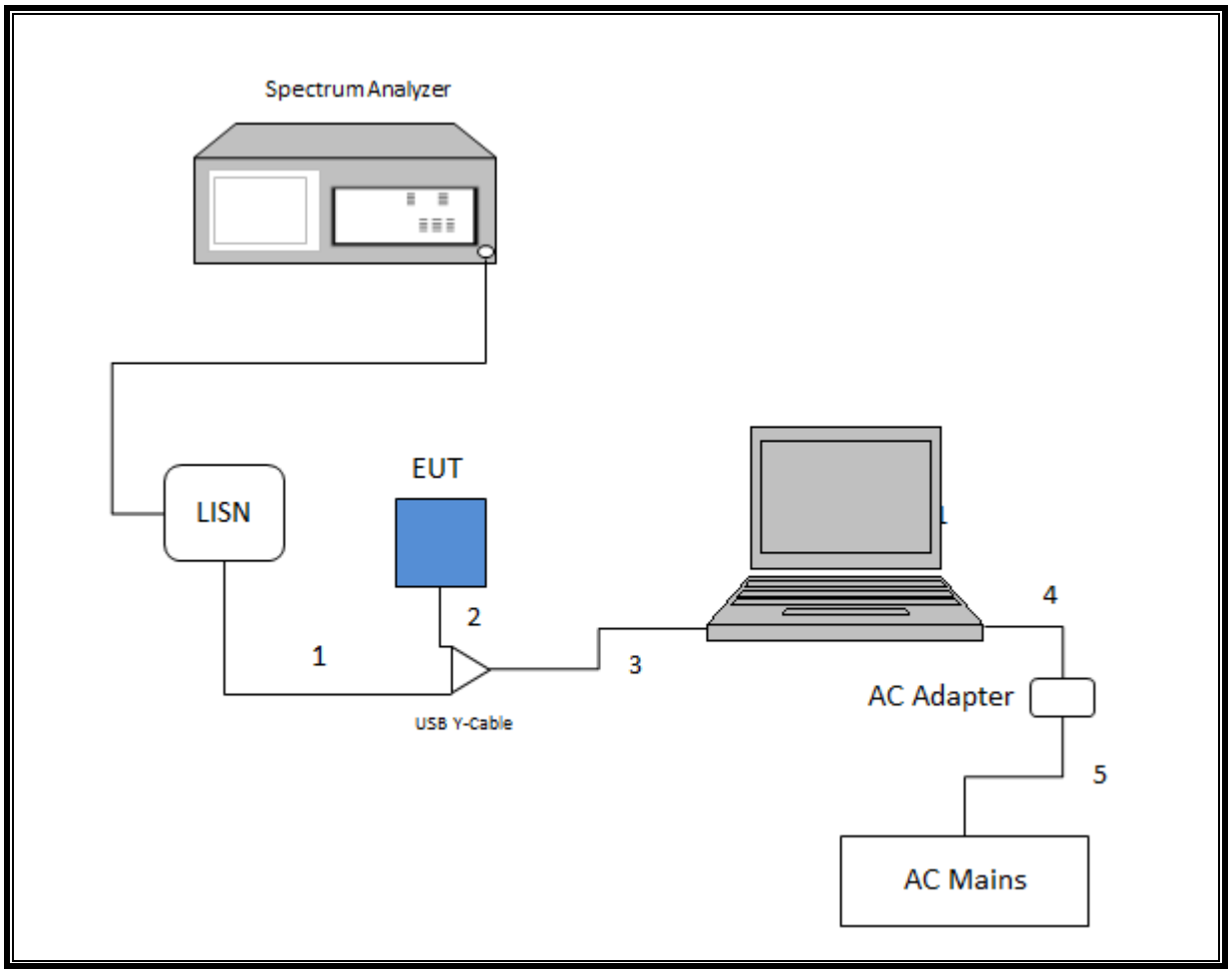
SETUP DIAGRAM FOR CONDUCTED TESTS



SETUP DIAGRAM FOR RADIATED TESTS



SETUP DIAGRAM FOR LINE CONDUCTED TEST



4. ANTENNA PORT TEST RESULTS

4.1. ON TIME, 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)
802.11b 1Tx	8.380	8.400	0.998	99.76%	0.00	0.010
802.11g 1TX	1.390	1.414	0.983	98.30%	0.00	0.010
802.11n HT20 1TX	1.300	1.322	0.983	98.34%	0.00	0.010
802.11n HT40 1TX	0.6480	0.6700	0.967	96.72%	0.14	1.543

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DUTY CYCLE PLOTS

802.11b 1Tx

802.11g 1Tx

802.11n HT20 1Tx

802.11n HT40 1Tx

4.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

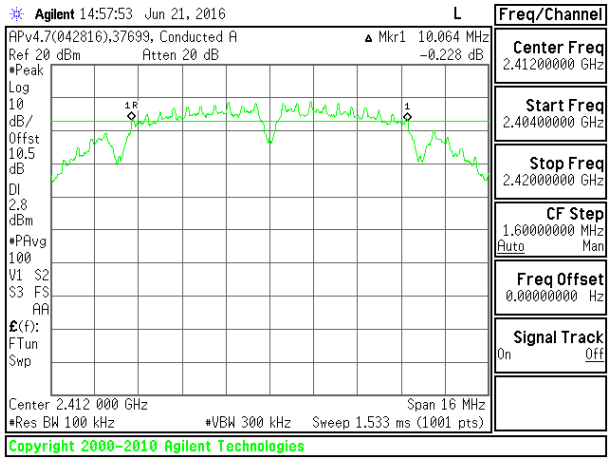
IC RSS-247 5.2.1

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

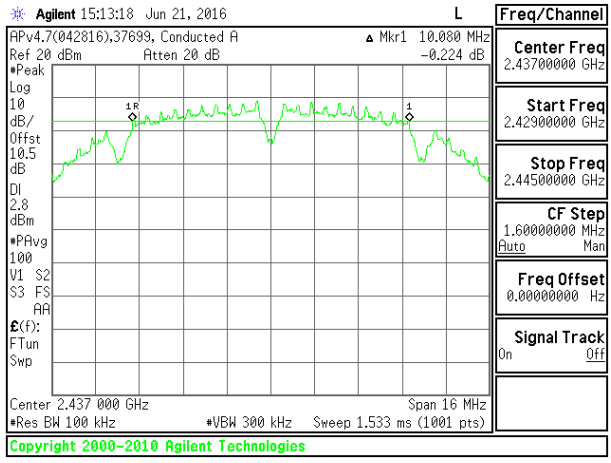
RESULTS

4.2.1. 802.11b Mode

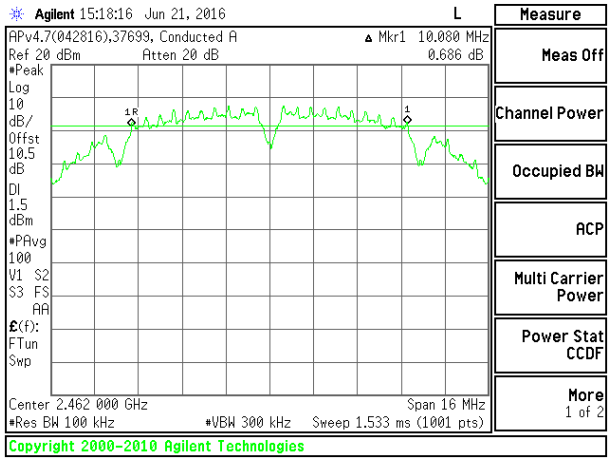
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	10.0640	0.5
Middle	2437	10.0800	0.5
High	2462	10.0800	0.5



LOW CHANNEL



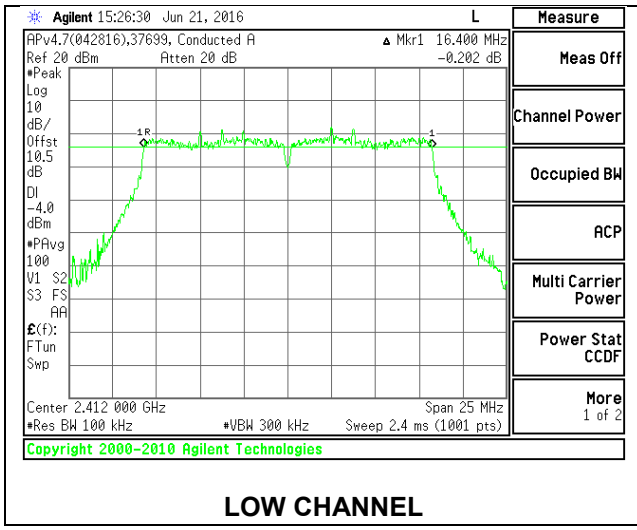
MID CHANNEL



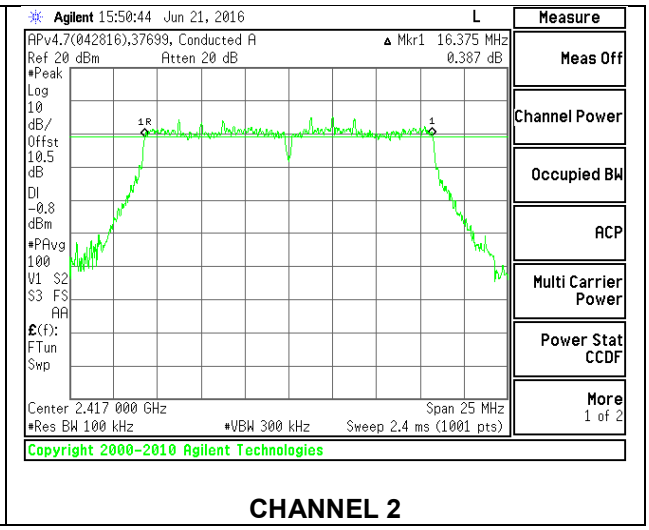
HIGH CHANNEL

4.2.2. 802.11g Mode

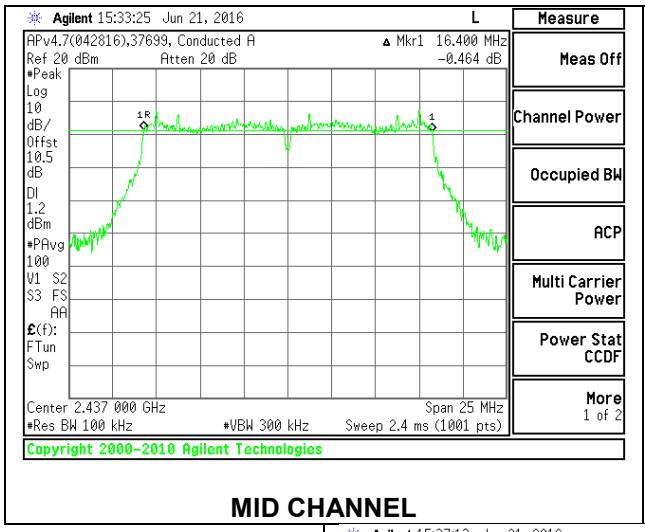
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	16.4000	0.5
2	2417	16.3750	0.5
Mid	2437	16.4000	0.5
10	2457	16.3750	0.5
High	2462	16.3750	0.5



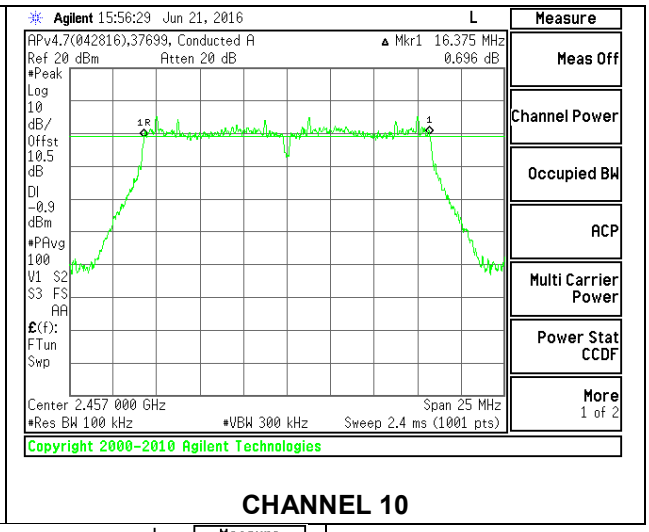
LOW CHANNEL



CHANNEL 2



MID CHANNEL



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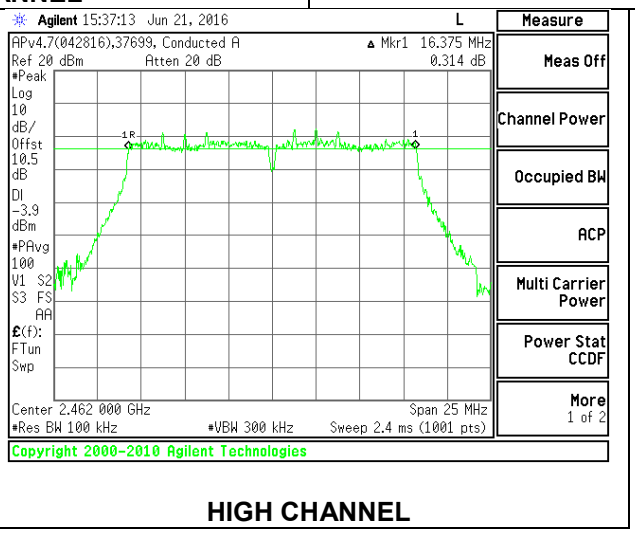
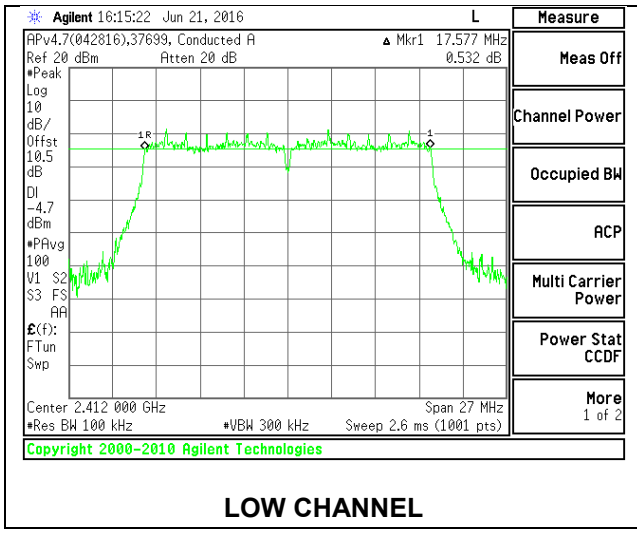


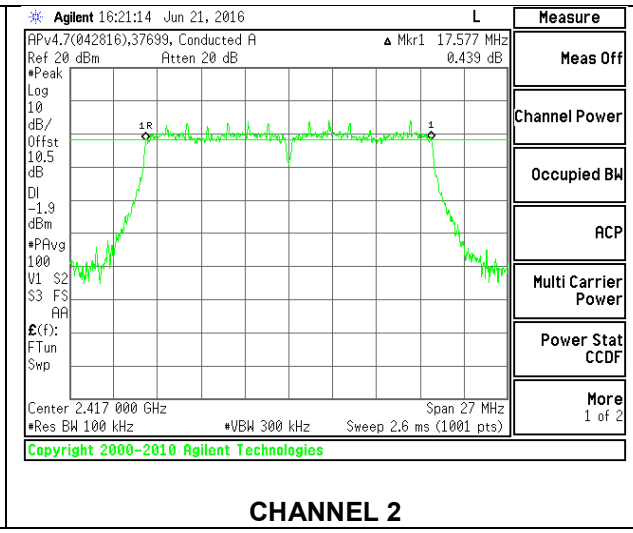
HIGH CHANNEL

4.2.3. 802.11n HT20 Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	17.5770	0.5
2	2417	17.5770	0.5
3	2422	17.5770	0.5
Mid	2437	17.5770	0.5
10	2457	17.5500	0.5
High	2462	17.5770	0.5



LOW CHANNEL



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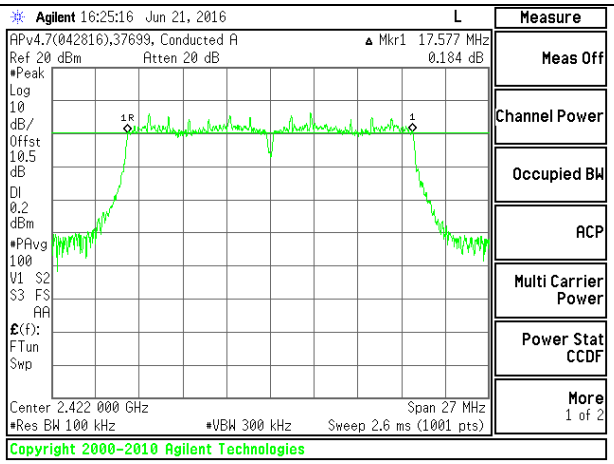

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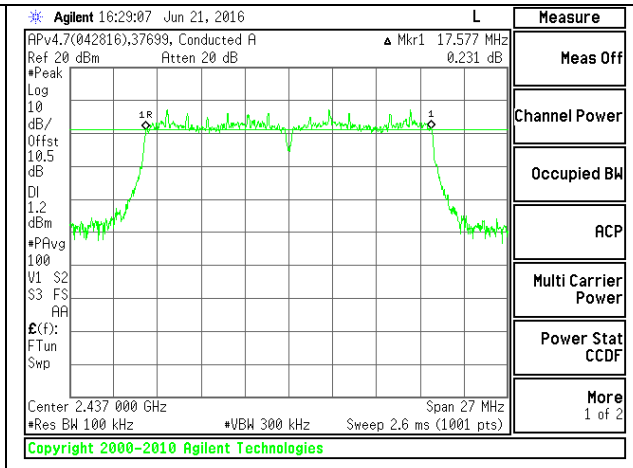
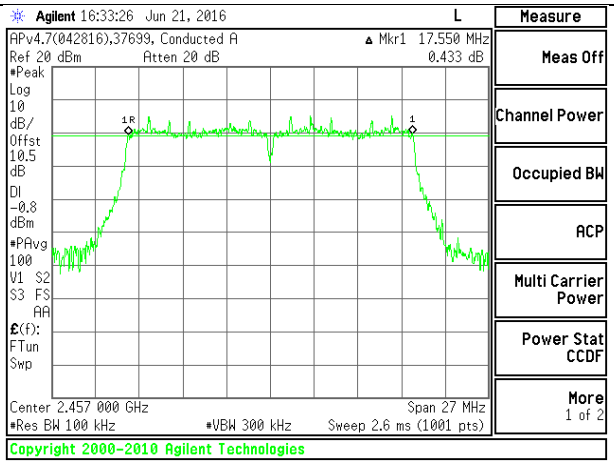


MID CHANNEL



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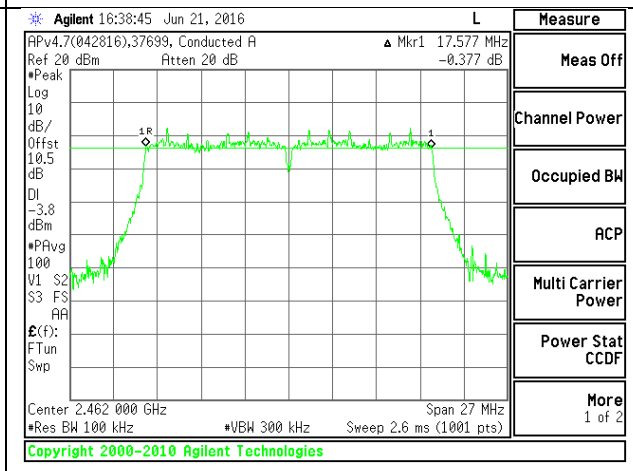
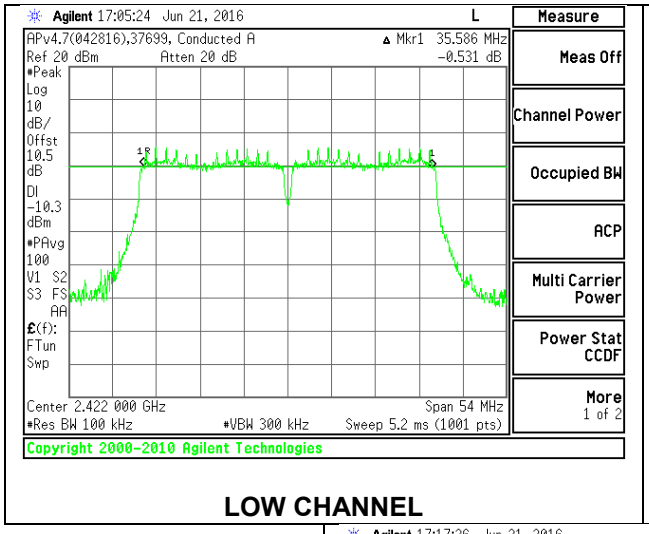


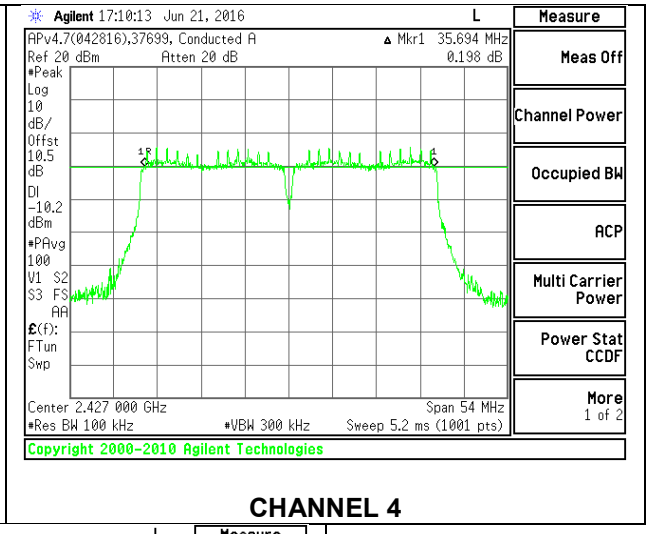
HIGH CHANNEL

4.2.4. 802.11n HT40 Mode

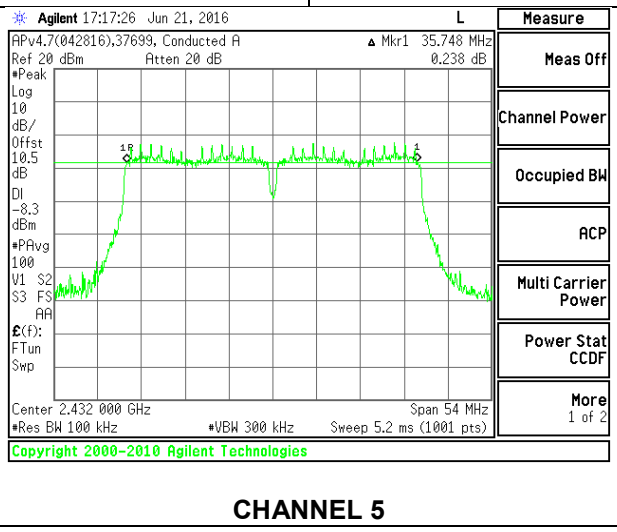
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2422	35.5860	0.5
4	2427	35.6940	0.5
5	2432	35.7480	0.5
Mid	2437	35.6400	0.5
7	2442	35.6940	0.5
8	2447	35.7480	0.5
High	2462	35.8560	0.5



LOW CHANNEL



CHANNEL 4



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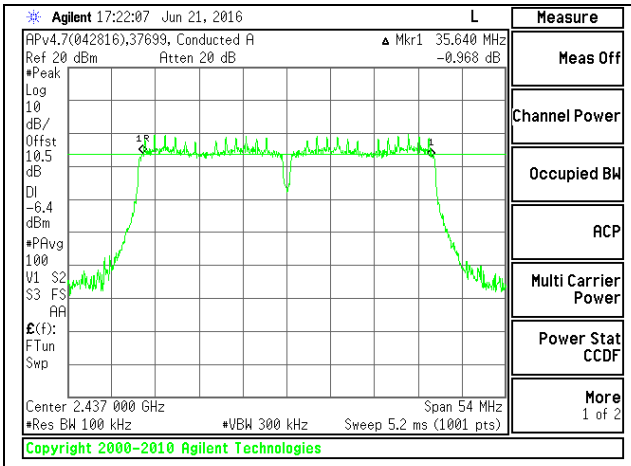
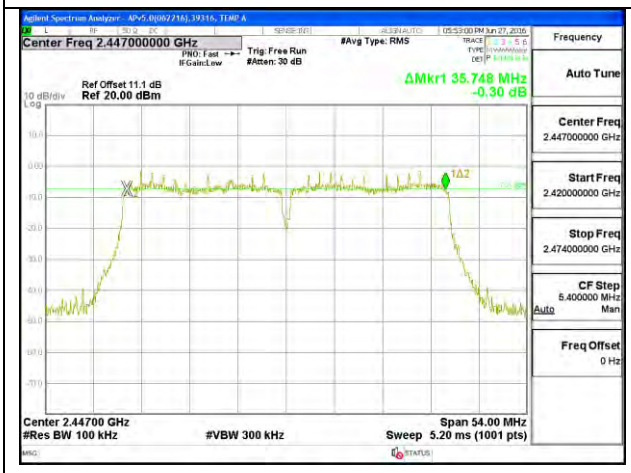
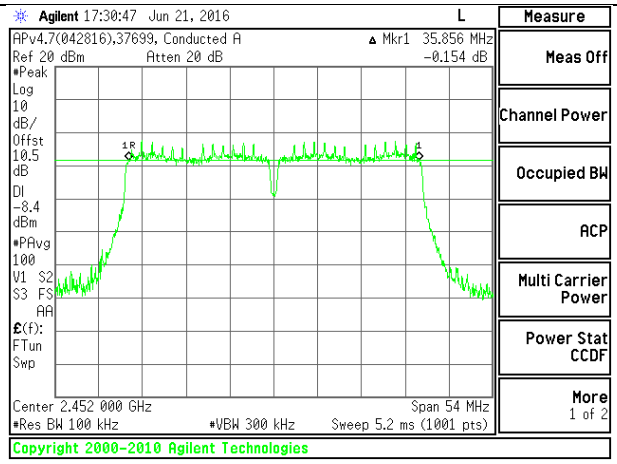


MID CHANNEL

CHANNEL 7



CHANNEL 8



HIGH CHANNEL

4.3. 99% BANDWIDTH

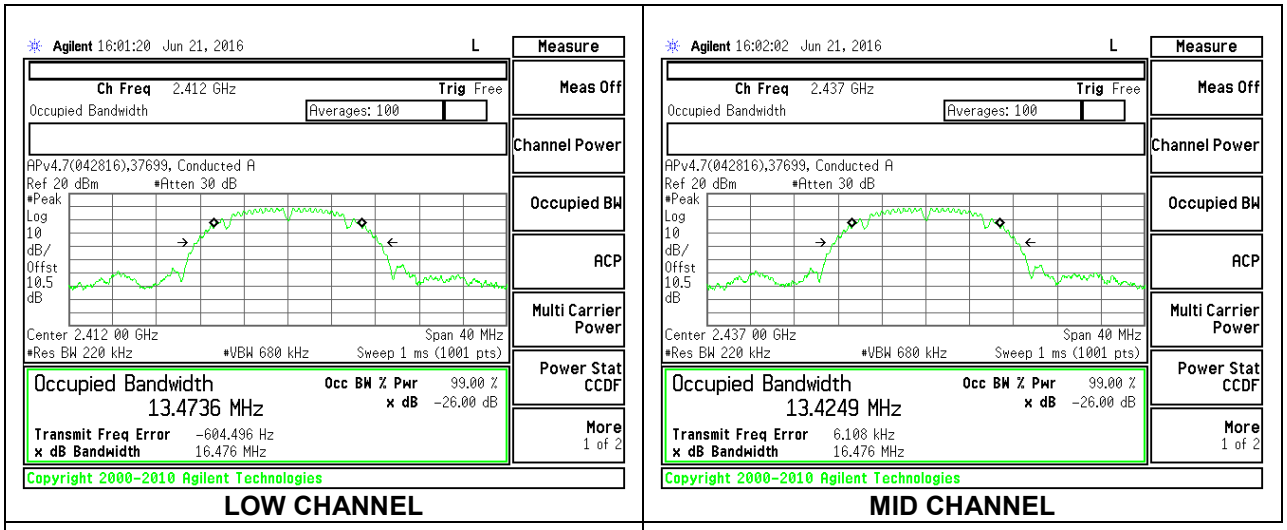
LIMITS

None; for reporting purposes only.

RESULTS

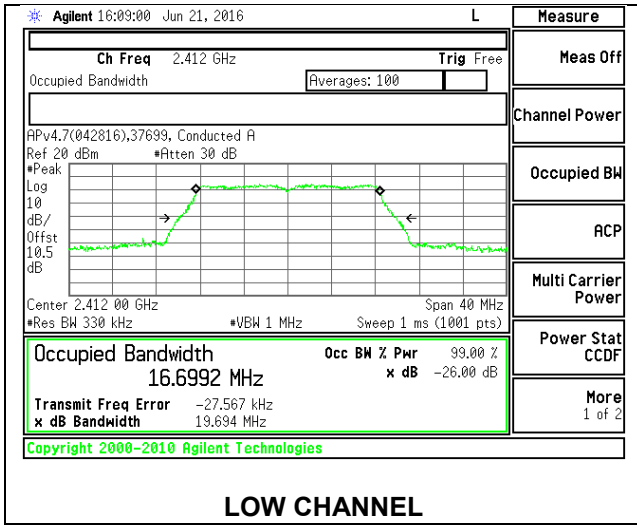
4.3.1. 802.11b Mode

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	13.4736
Middle	2437	13.4249
High	2462	13.4662

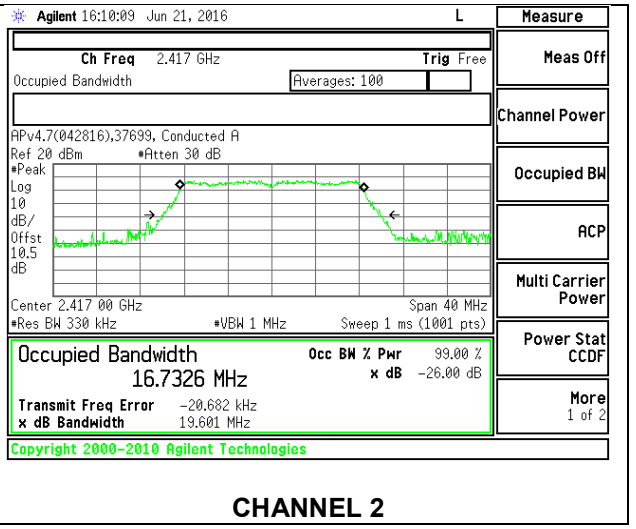


4.3.2. 802.11g Mode

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.6992
2	2417	16.7326
Middle	2437	16.7357
10	2457	16.7409
High	2462	16.7490



LOW CHANNEL



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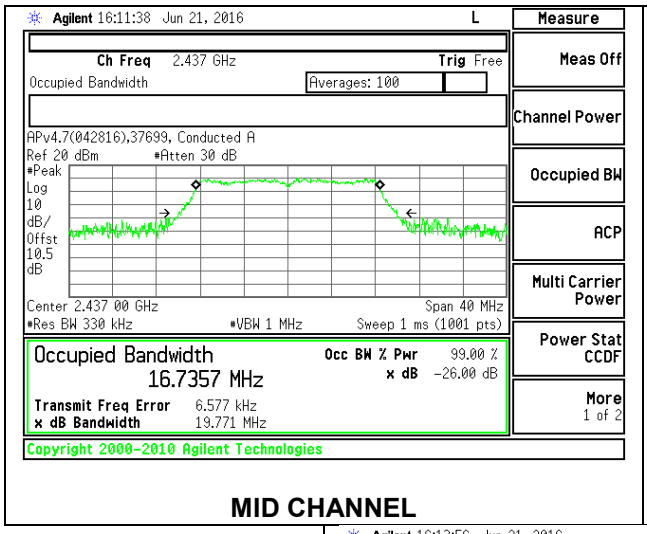
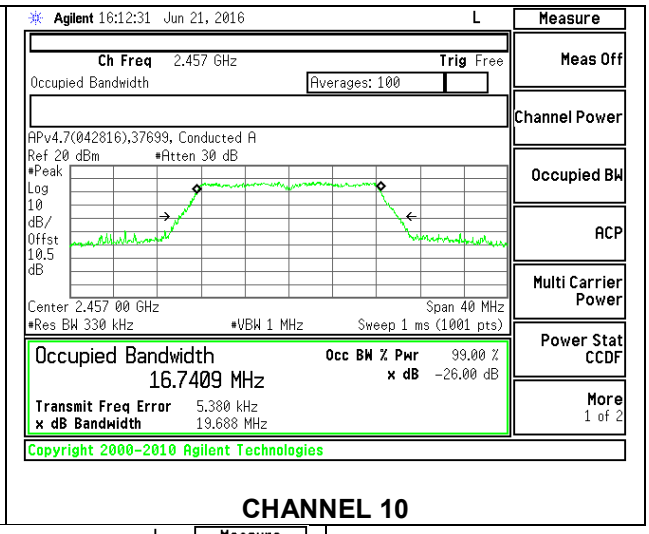
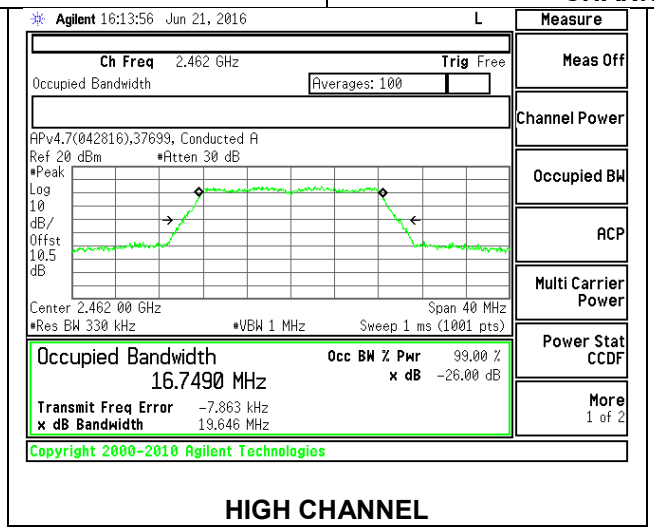


MID CHANNEL



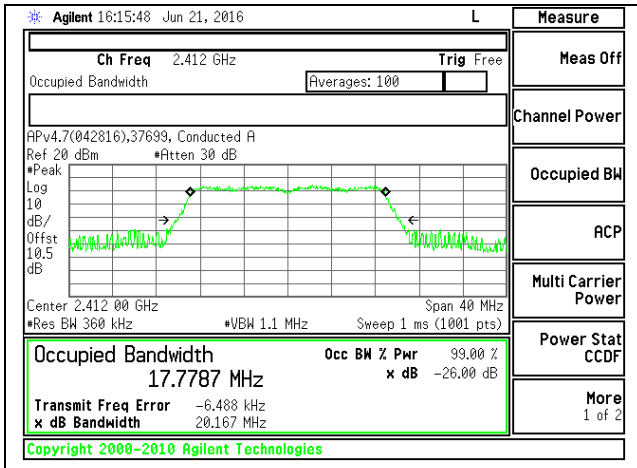
CHANNEL 10



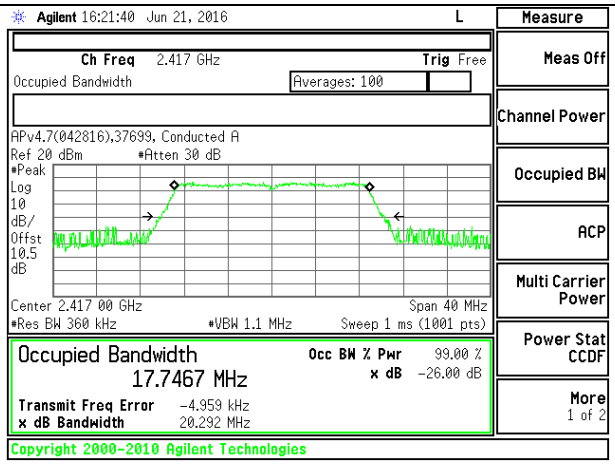
HIGH CHANNEL

4.3.3. 802.11n HT20 Mode

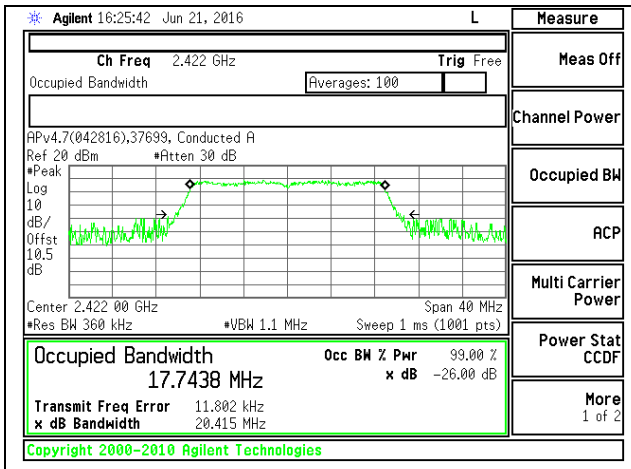
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.7787
2	2417	17.7467
3	2422	17.7438
Middle	2437	17.7980
10	2457	17.7639
High	2462	17.7456



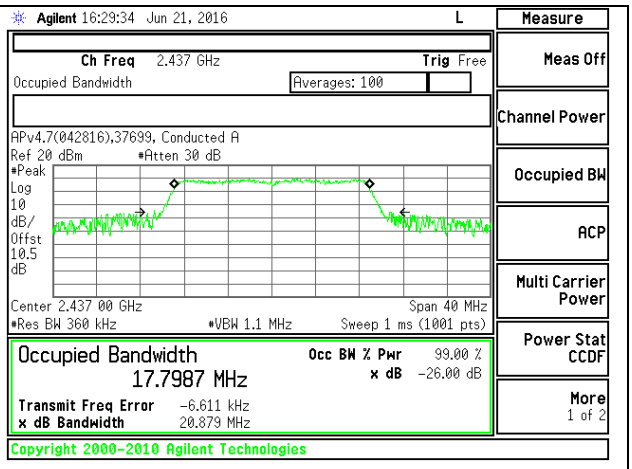
LOW CHANNEL



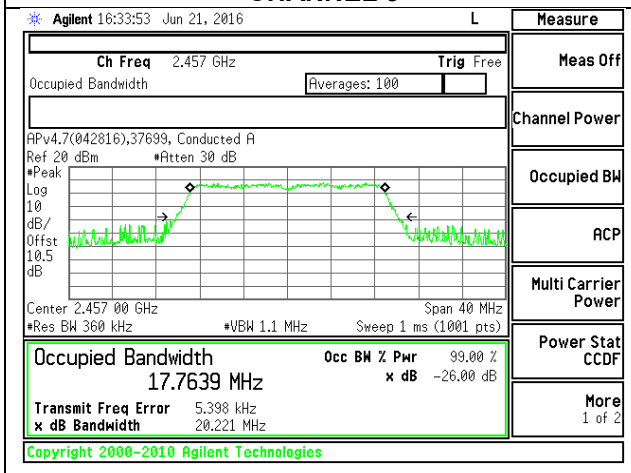
CHANNEL 2



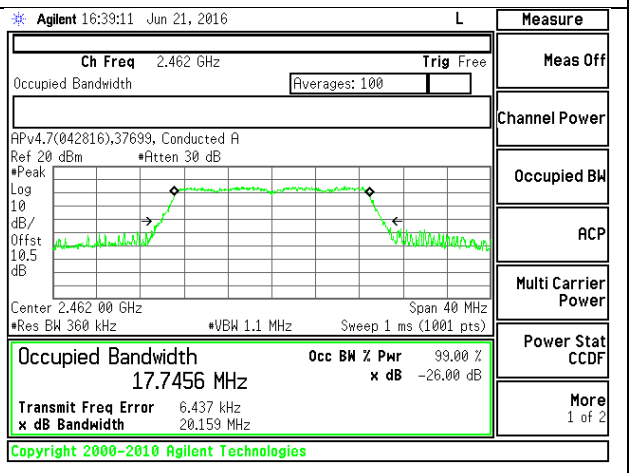
CHANNEL 3



MID CHANNEL



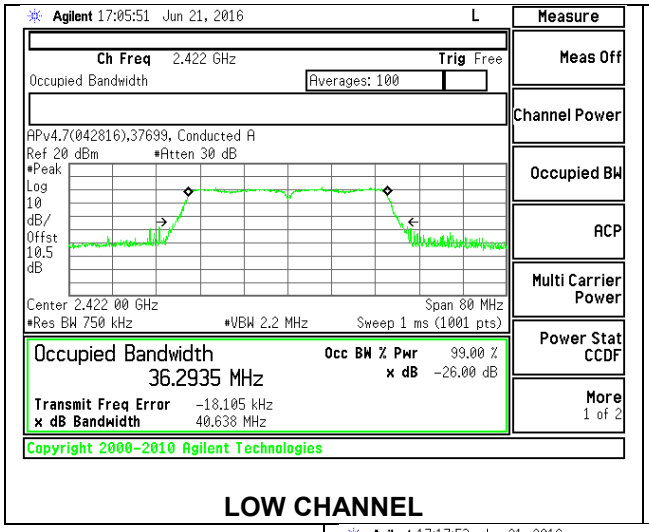
CHANNEL 9



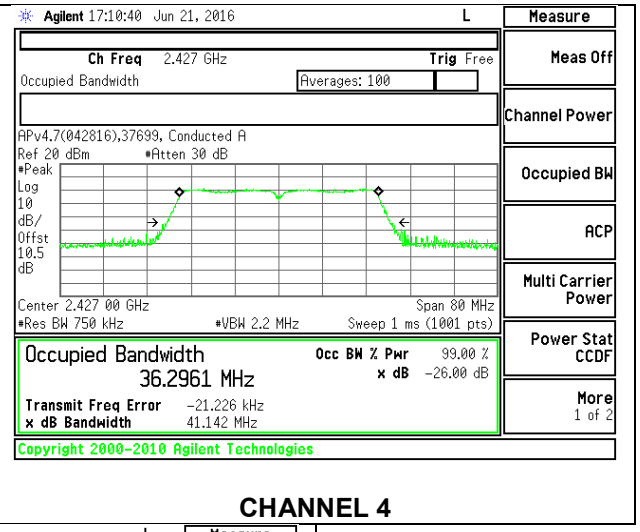
HIGH CHANNEL

4.3.4. 802.11n HT40 Mode

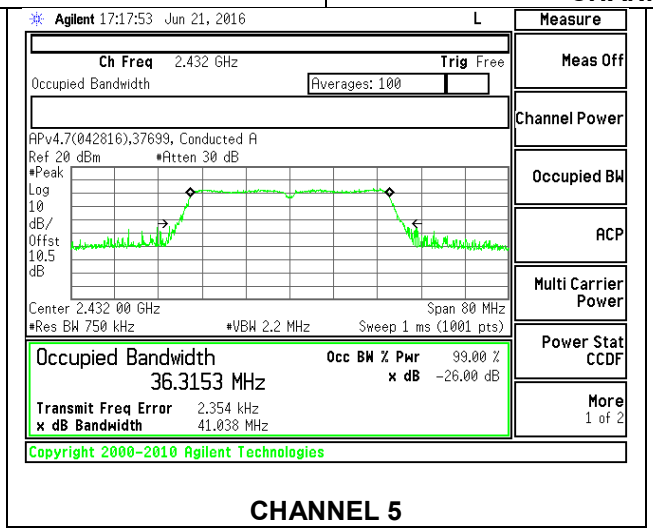
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2422	36.2935
4	2427	36.2961
5	2432	36.3153
Middle	2437	36.2780
7	2442	36.4070
8	2447	36.3320
High	2452	36.2564



LOW CHANNEL



CHANNEL 4



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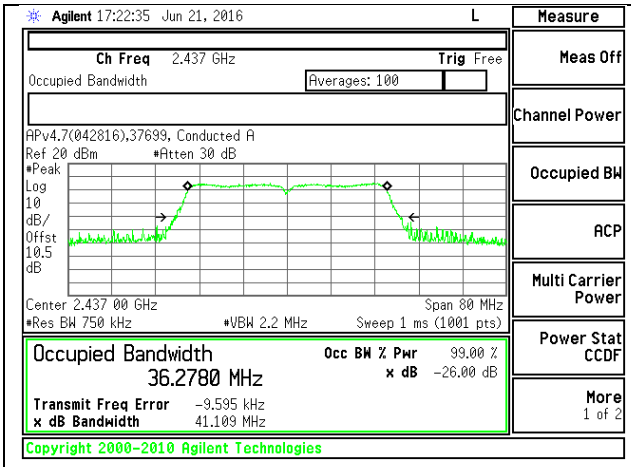
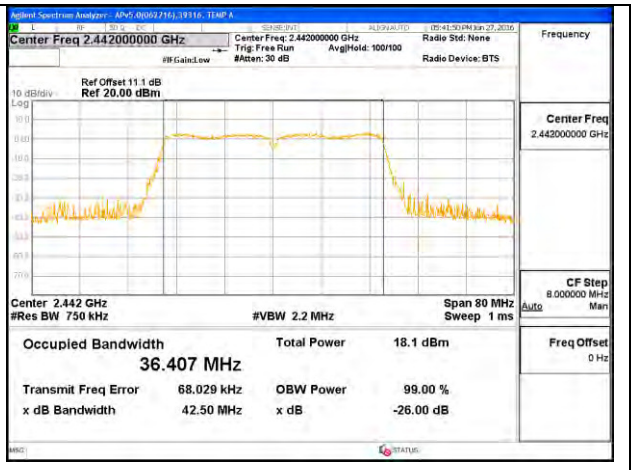
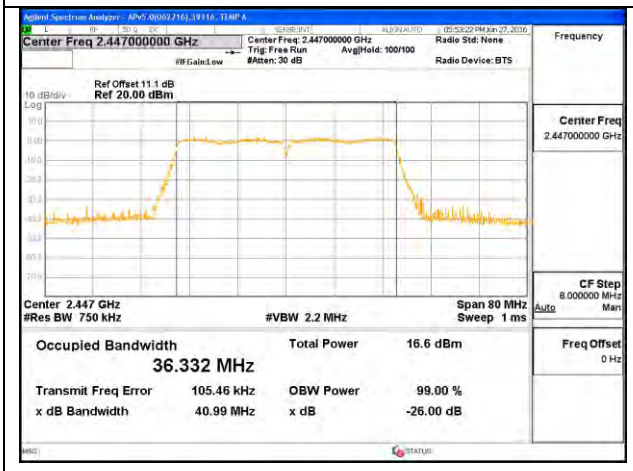


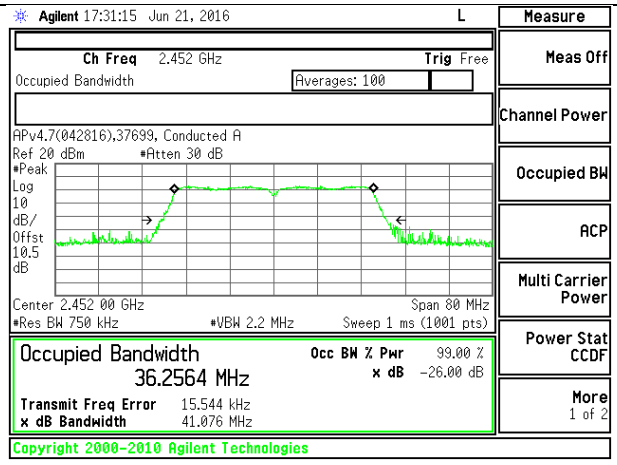
MID CHANNEL



CHANNEL 7



CHANNEL 8



HIGH CHANNEL

4.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. The total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi.

IC RSS-247 5.4.4

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

DIRECTIONAL ANTENNA GAIN

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

RESULTS

4.4.1. 802.11b Mode

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	3.70	30.00	30	36	30.00
Mid	2437	3.70	30.00	30	36	30.00
High	2462	3.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	18.26	18.26	30.00	-11.74
Mid	2437	18.21	18.21	30.00	-11.79
High	2462	17.20	17.20	30.00	-12.80

TEST INFORMATION

Date: 6/21/16 – 6/27/16
Tester: Clifford Susa

4.4.2. 802.11g Mode

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	3.70	30.00	30	36	30.00
2	2417	3.70	30.00	30	36	30.00
Mid	2437	3.70	30.00	30	36	30.00
10	2457	3.70	30.00	30	36	30.00
High	2462	3.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	13.15	13.15	30.00	-16.85
2	2417	16.06	16.06	30.00	-13.94
Mid	2437	18.23	18.23	30.00	-11.77
10	2457	16.11	16.11	30.00	-13.89
High	2462	13.22	13.22	30.00	-16.78

TEST INFORMATION

Date: 6/21/16 – 6/27/16
Tester: Clifford Susa

4.4.3. 802.11n HT20 Mode

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	3.70	30.00	30	36	30.00
2	2417	3.70	30.00	30	36	30.00
3	2422	3.70	30.00	30	36	30.00
Mid	2437	3.70	30.00	30	36	30.00
10	2457	3.70	30.00	30	36	30.00
High	2462	3.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	12.35	12.35	30.00	-17.65
2	2417	15.29	15.29	30.00	-14.71
3	2422	17.27	17.27	30.00	-12.73
Mid	2437	18.37	18.37	30.00	-11.63
10	2457	16.26	16.26	30.00	-13.74
High	2462	13.41	13.41	30.00	-16.59

TEST INFORMATION

Date: 6/21/16 – 6/27/16
Tester: Clifford Susa

4.4.4. 802.11n HT40 Mode

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2422	3.70	30.00	30	36	30.00
4	2427	3.70	30.00	30	36	30.00
5	2432	3.70	30.00	30	36	30.00
Mid	2437	3.70	30.00	30	36	30.00
7	2442	3.70	30.00	30	36	30.00
8	2447	3.70	30.00	30	36	30.00
High	2452	3.70	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2422	9.15	9.15	30.00	-20.85
4	2427	9.39	9.39	30.00	-20.61
5	2432	11.26	11.26	30.00	-18.74
Mid	2437	13.33	13.33	30.00	-16.67
7	2442	14.32	14.32	30.00	-15.68
8	2447	13.21	13.21	30.00	-16.79
High	2452	11.42	11.42	30.00	-18.58

TEST INFORMATION

Date: 6/21/16 – 6/27/16
Tester: Clifford Susa

4.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

IC RSS-247 5.2.2

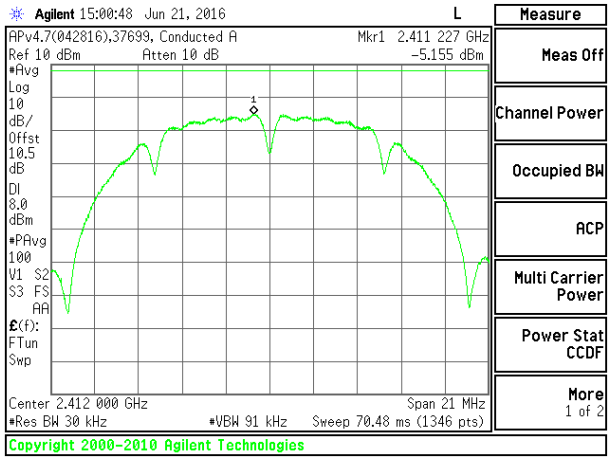
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

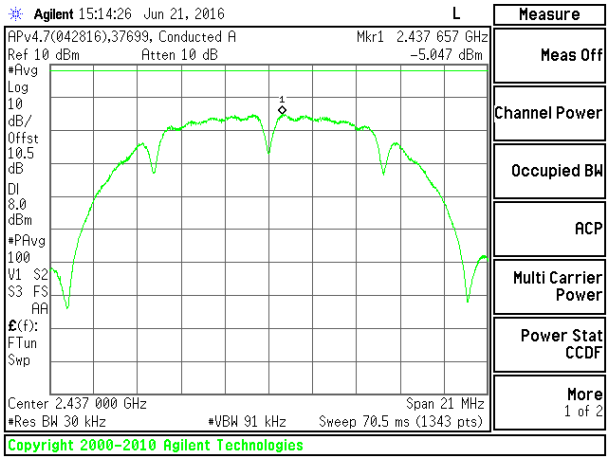
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888

4.5.1. 802.11b Mode

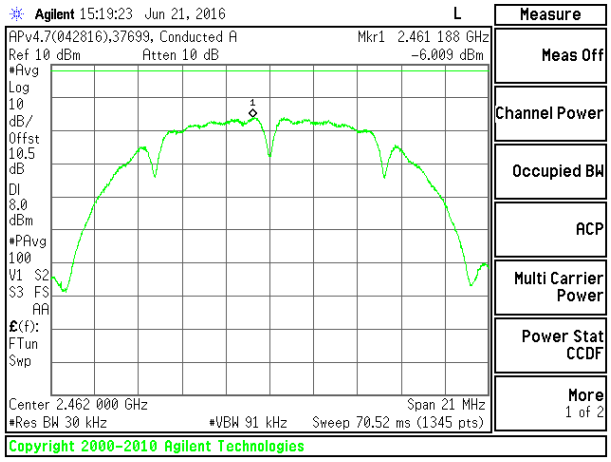
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-5.16	8	-13.16
Middle	2437	-5.05	8	-13.05
High	2462	-6.01	8	-14.01



LOW CHANNEL



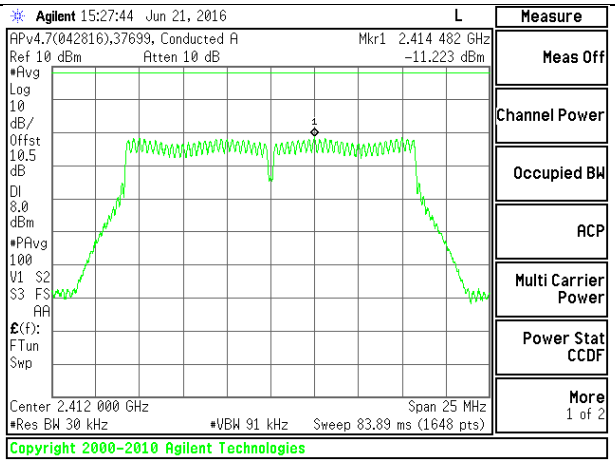
MID CHANNEL



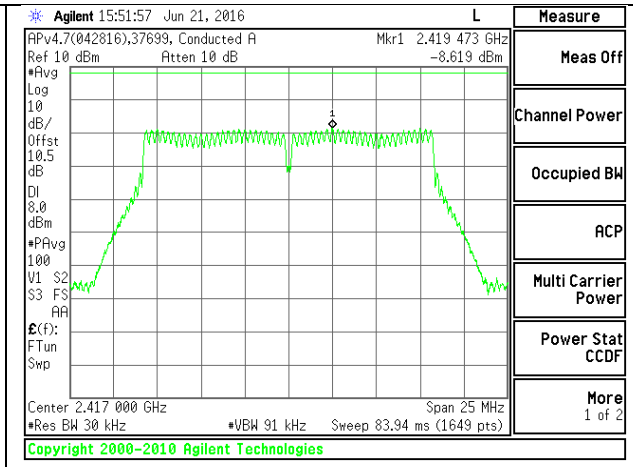
HIGH CHANNEL

4.5.2. 802.11g Mode

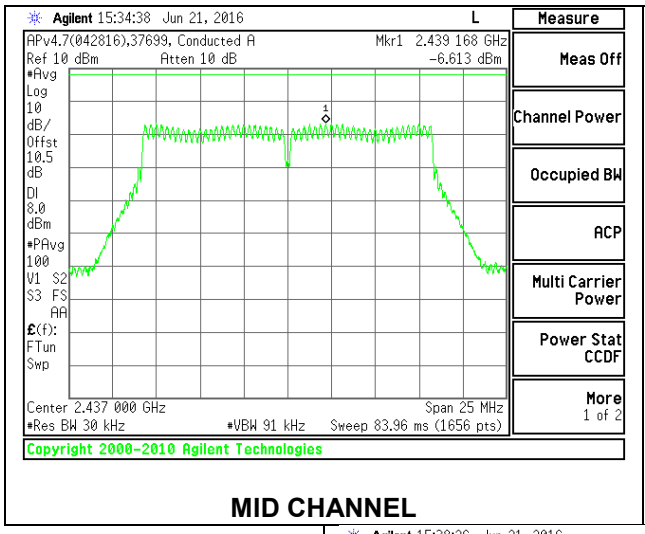
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-11.22	8	-19.22
2	2417	-8.62	8	-16.62
Middle	2437	-6.61	8	-14.61
10	2457	-8.68	8	-16.68
High	2462	-11.52	8	-19.52



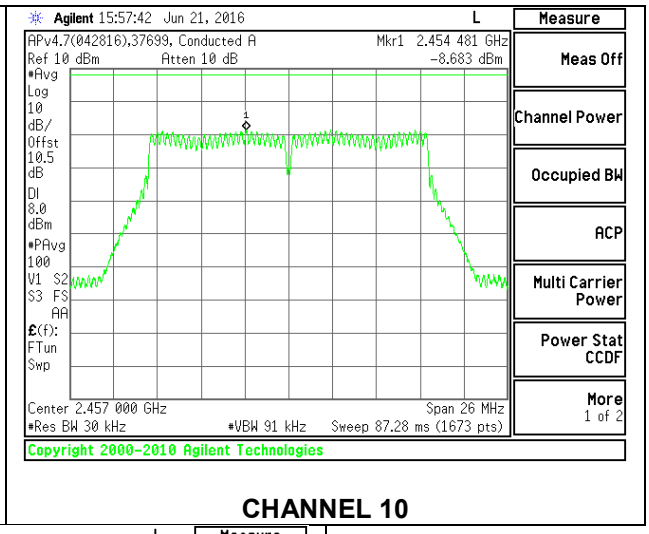
LOW CHANNEL



CHANNEL 2



MID CHANNEL



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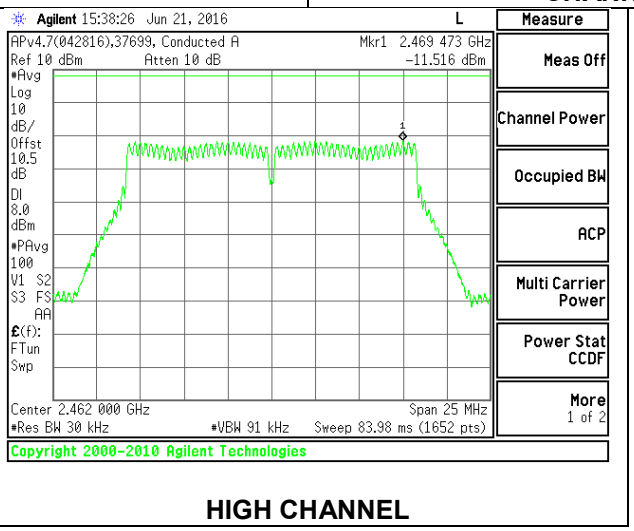
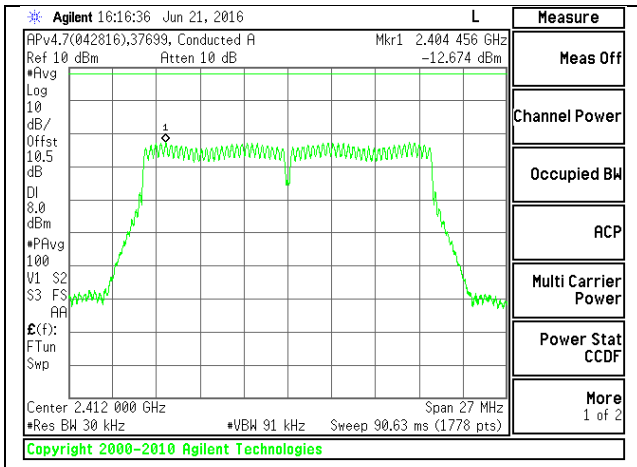


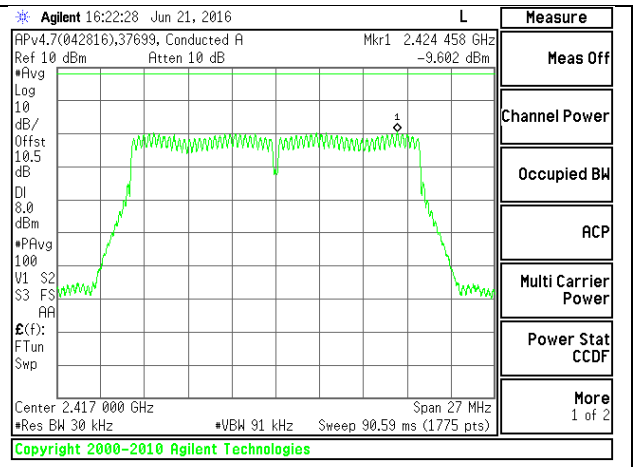
HIGH CHANNEL

4.5.3. 802.11n HT20 Mode

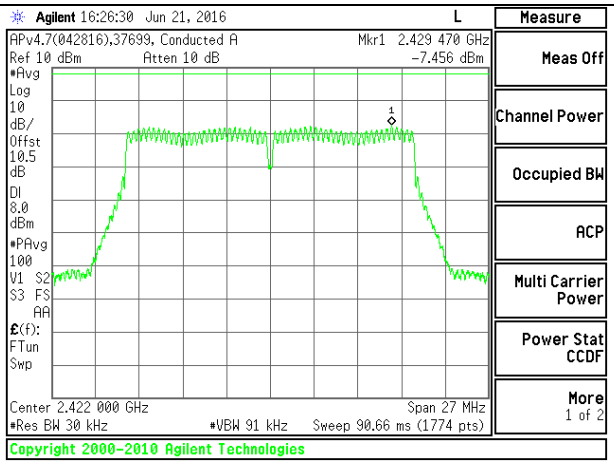
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-12.67	8	-20.67
2	2417	-9.60	8	-17.60
3	2422	-7.46	8	-15.46
Middle	2437	-6.44	8	-14.44
10	2457	-8.50	8	-16.50
High	2462	-11.30	8	-19.30



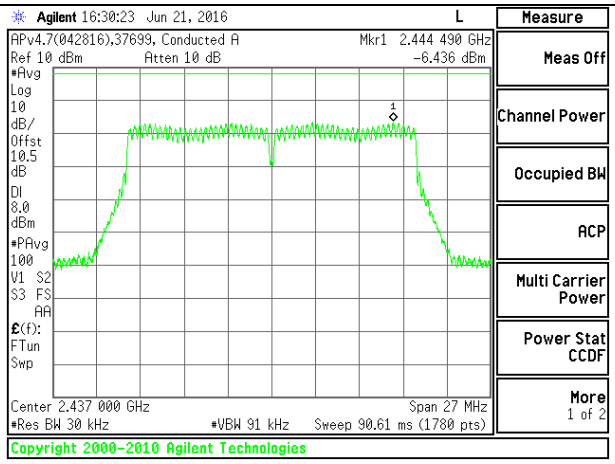
LOW CHANNEL



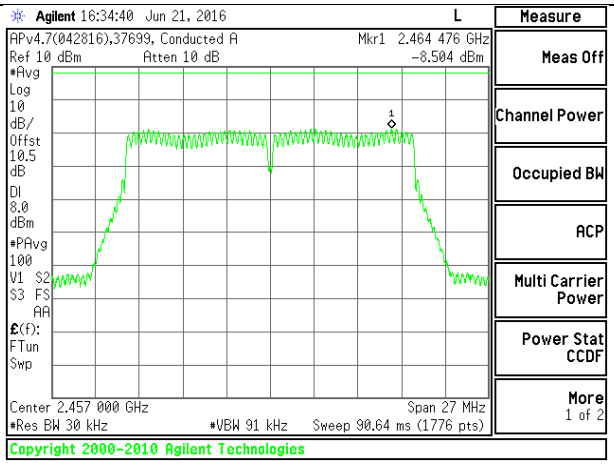
CHANNEL 2



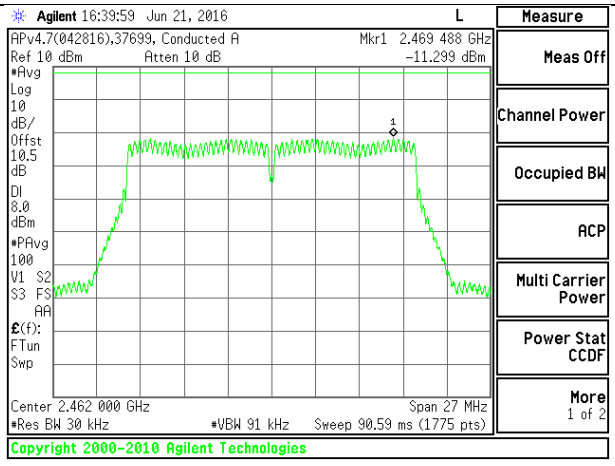
CHANNEL 3



MID CHANNEL



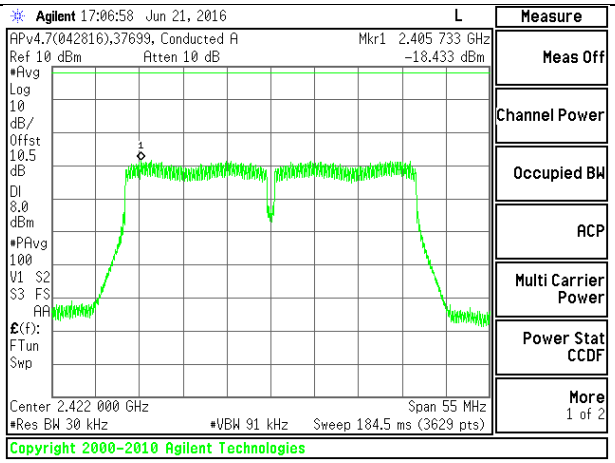
CHANNEL 10



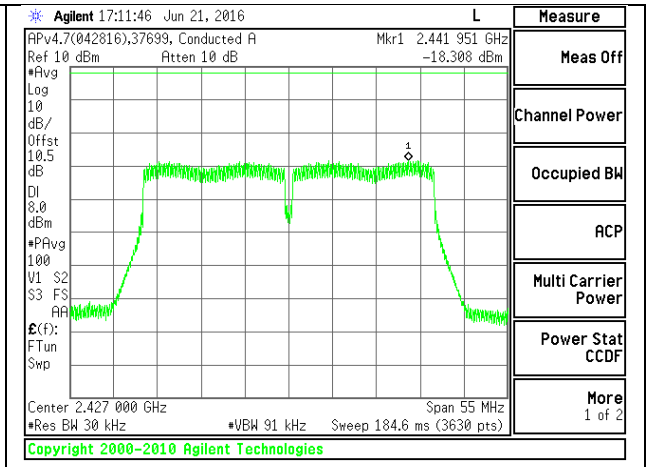
HIGH CHANNEL

4.5.4. 802.11n HT40 Mode

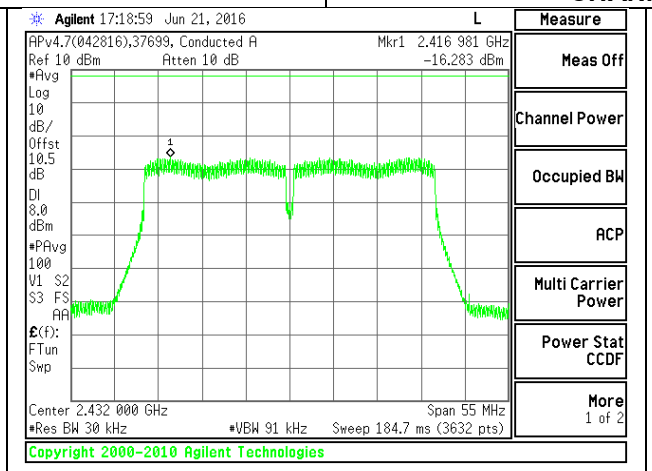
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2422	-18.43	8	-26.43
4	2427	-18.31	8	-26.31
5	2432	-16.28	8	-24.28
Middle	2437	-14.59	8	-22.59
7	2442	-13.58	8	-21.58
8	2447	-15.58	9	-24.58
High	2452	-16.44	8	-24.44



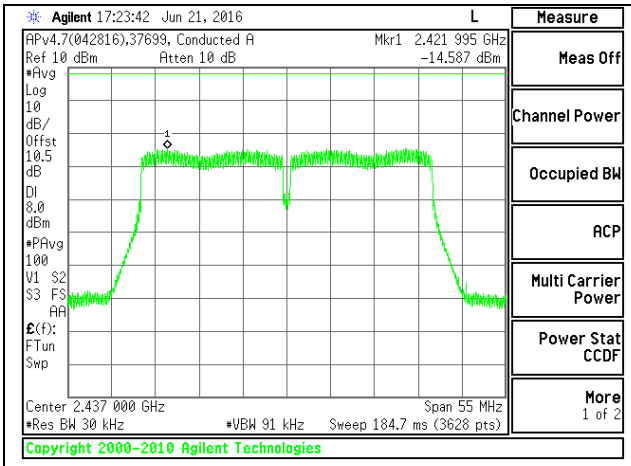
LOW CHANNEL



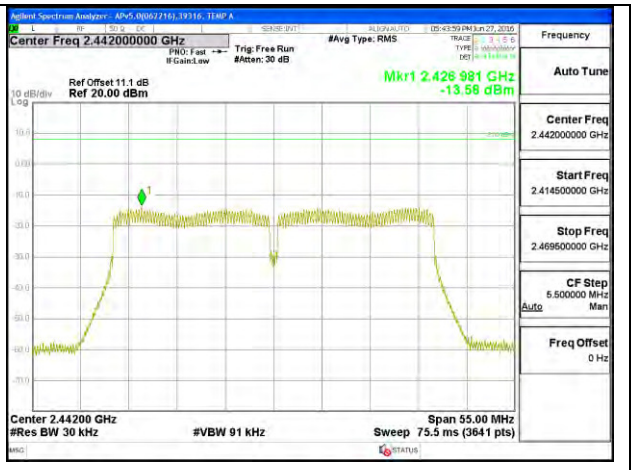
CHANNEL 4



CHANNEL 5

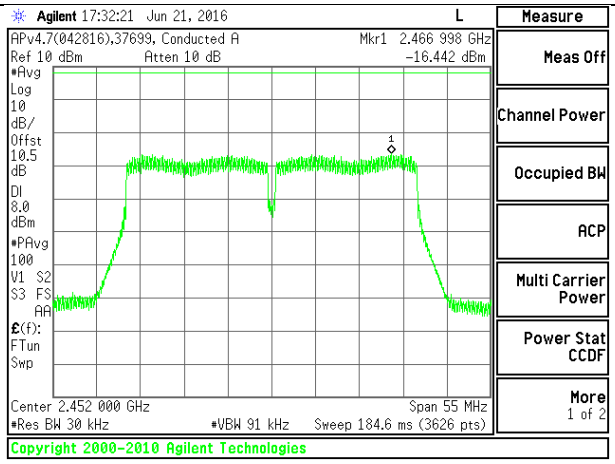


MID CHANNEL



CHANNEL 7

CHANNEL 8



HIGH CHANNEL

4.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

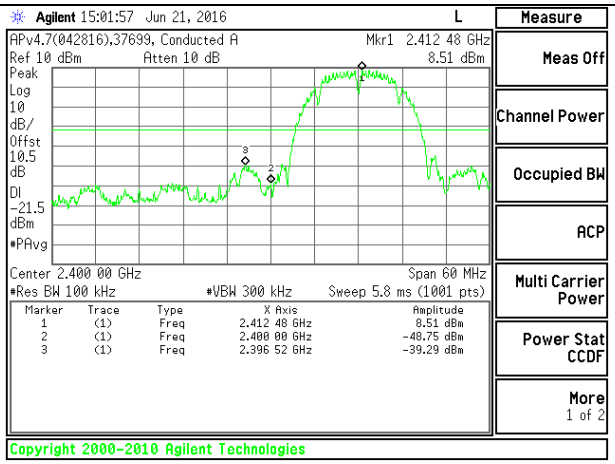
FCC §15.247 (d)

IC RSS-247 5.5

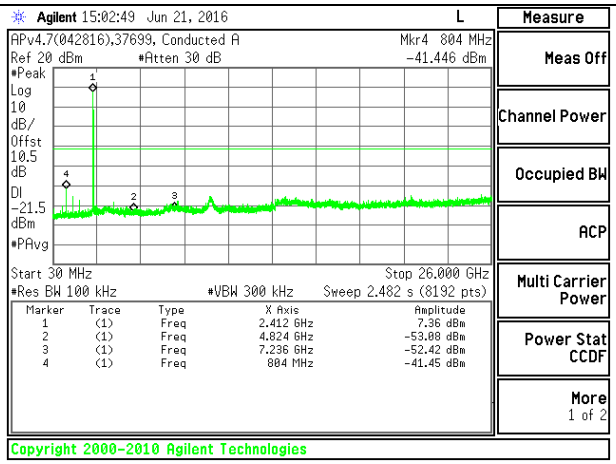
Output power was measured based on the use of Avg measurement, therefore the required attenuation is 30 dB.

RESULTS

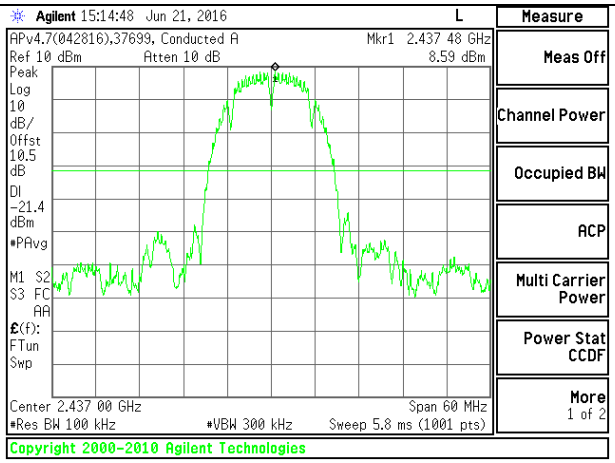
4.6.1. 802.11b Mode



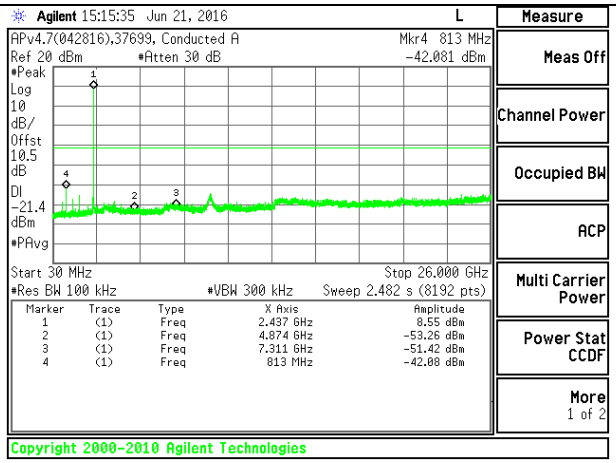
LOW CHANNEL BANDEDGE



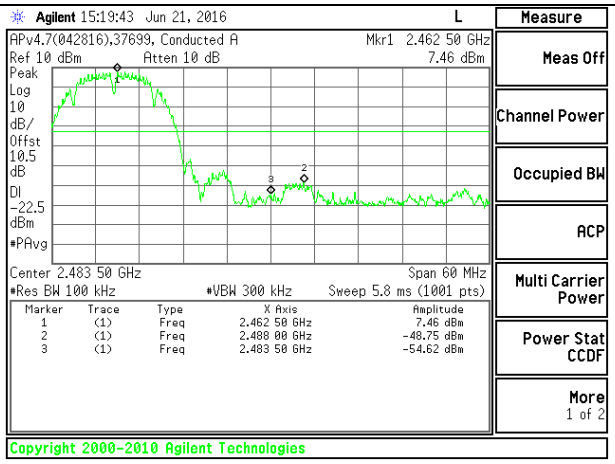
OUT OF BAND LOW CHANNEL



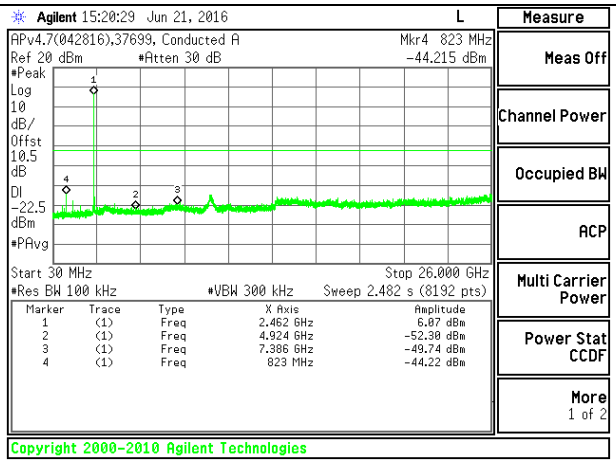
IN-BAND REFERENCE LEVEL



OUT OF BAND MID CHANNEL

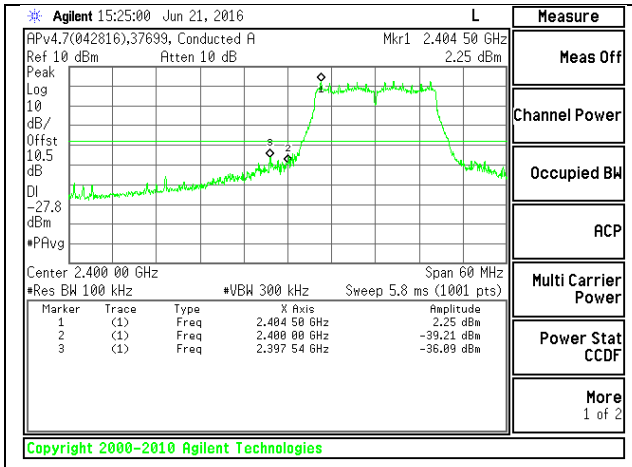


HIGH CHANNEL BANDEDGE

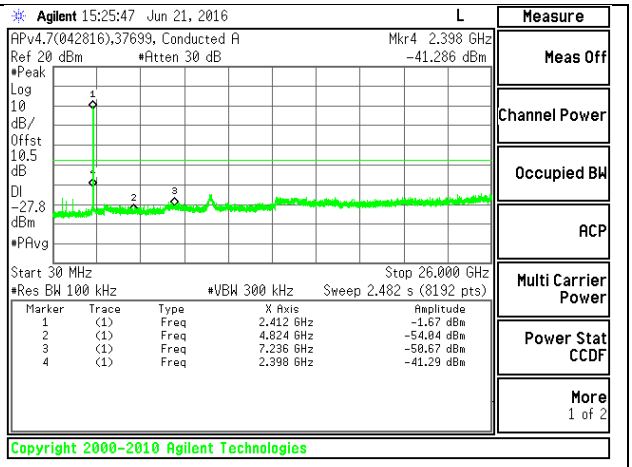


OUT OF BAND HIGH CHANNEL

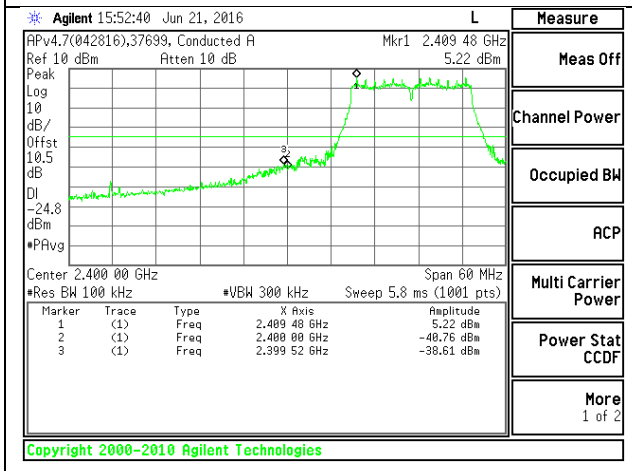
4.6.2. 802.11g Mode



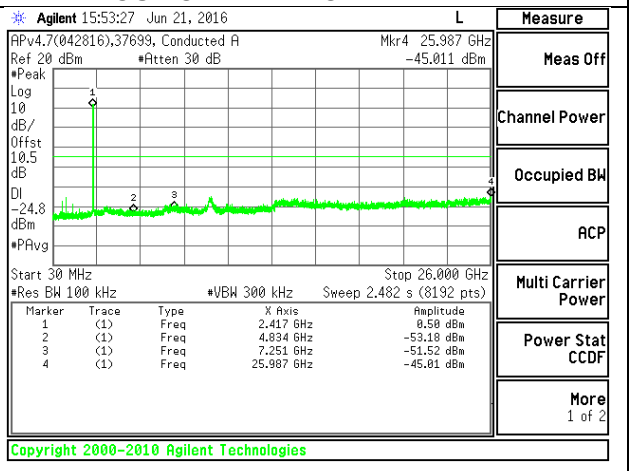
LOW CHANNEL BANDEDGE



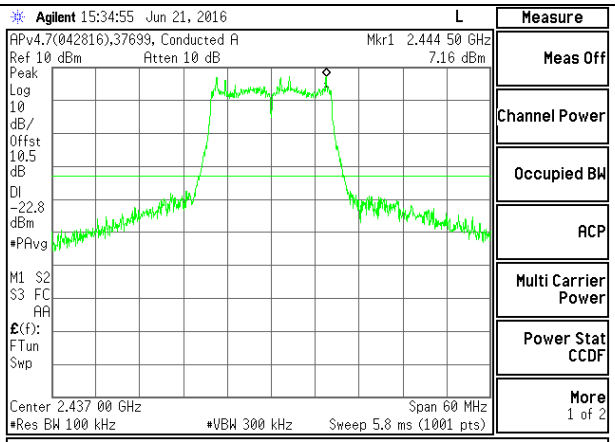
OUT OF BAND LOW CHANNEL



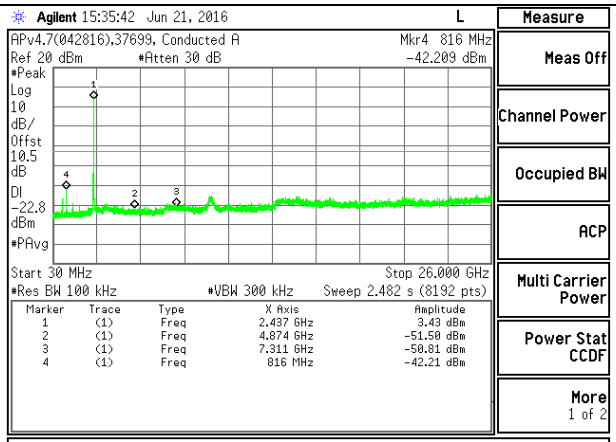
CHANNEL 2 BANDEDGE



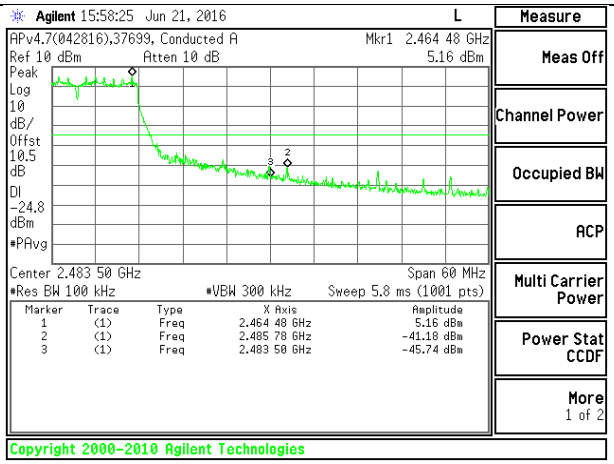
OUT OF BAND CHANNEL 2



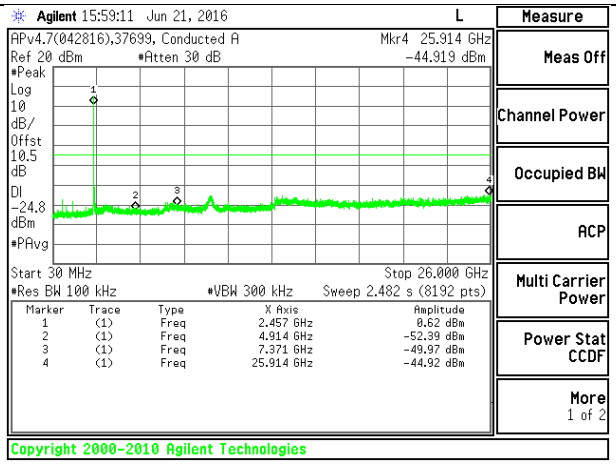
IN-BAND REFERENCE LEVEL



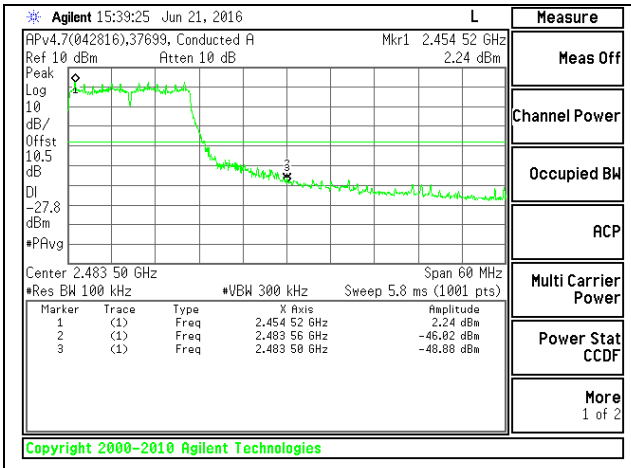
OUT OF BAND MID CHANNEL



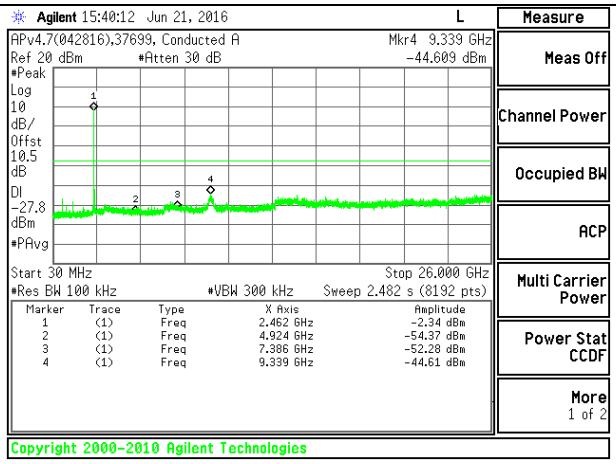
CHANNEL 10 BANDEDGE



OUT OF BAND CHANNEL 10

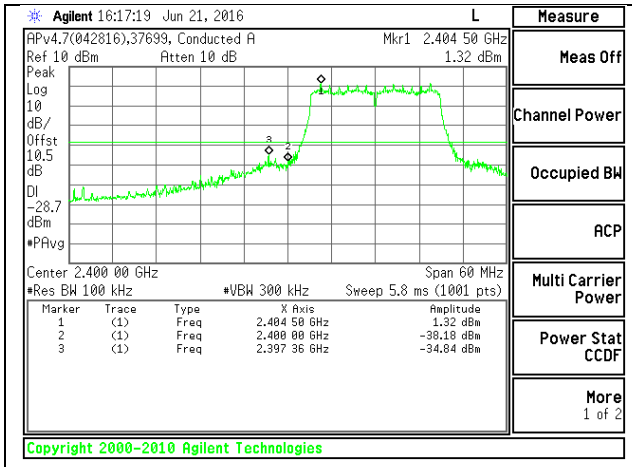


HIGH CHANNEL BANDEDGE

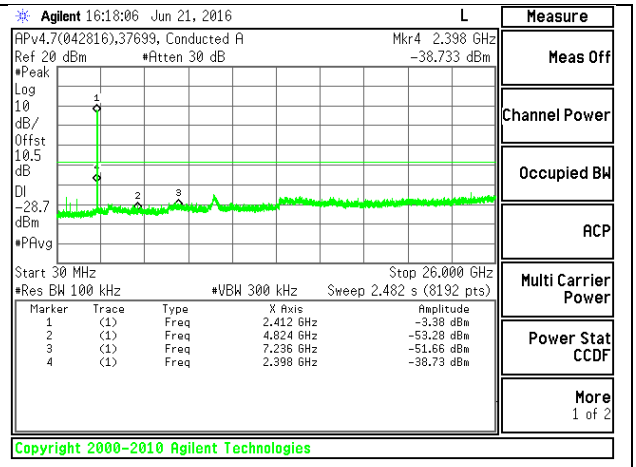


OUT OF BAND HIGH CHANNEL

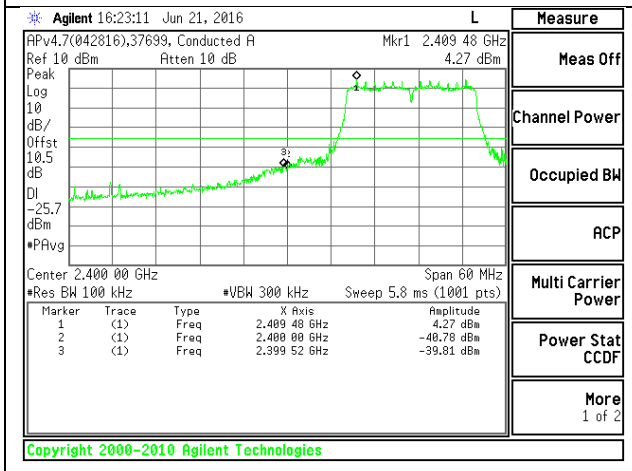
4.6.3. 802.11n HT20 Mode



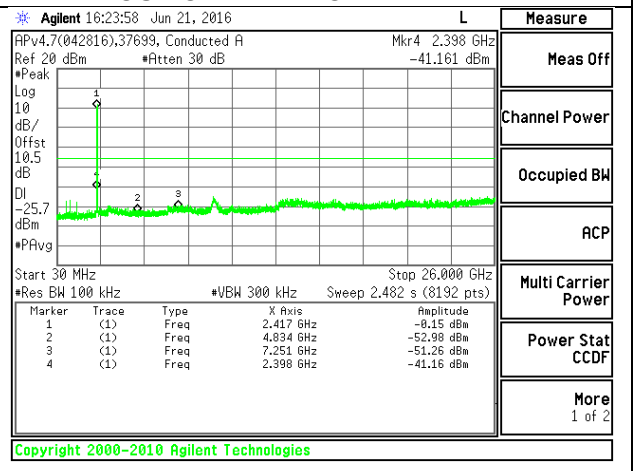
LOW CHANNEL BANDEDGE



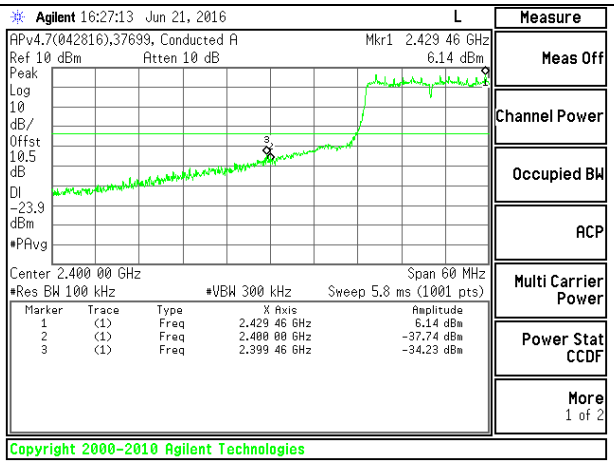
OUT OF BAND LOW CHANNEL



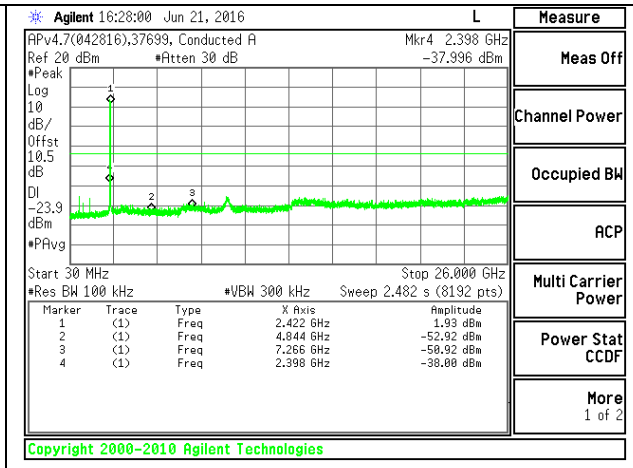
CHANNEL 2 BANDEDGE



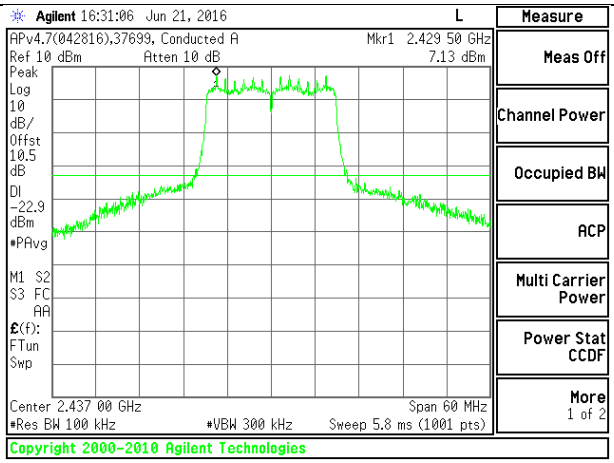
OUT OF BAND CHANNEL 2



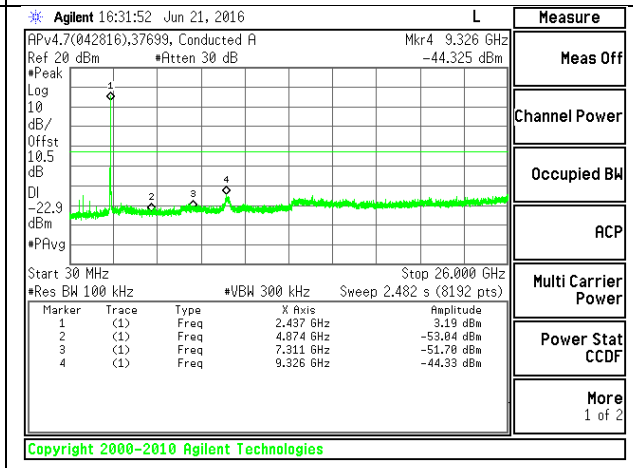
CHANNEL 3 BANDEDGE



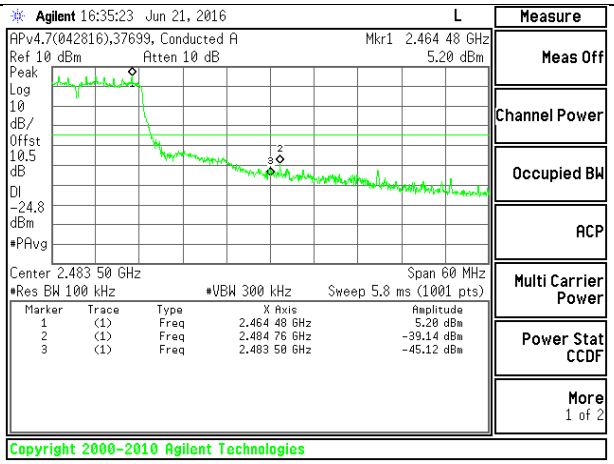
OUT OF BAND CHANNEL 3



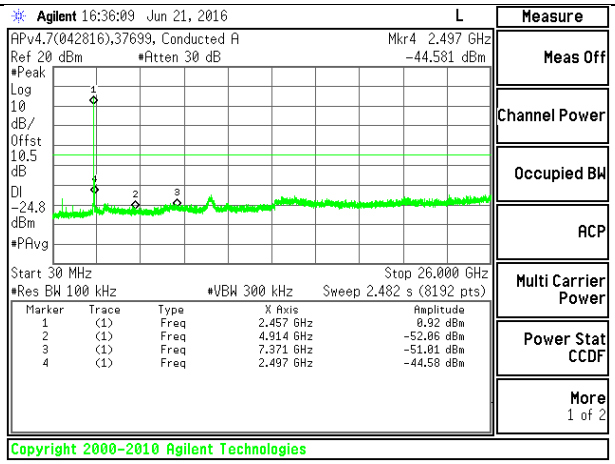
IN-BAND REFERENCE LEVEL



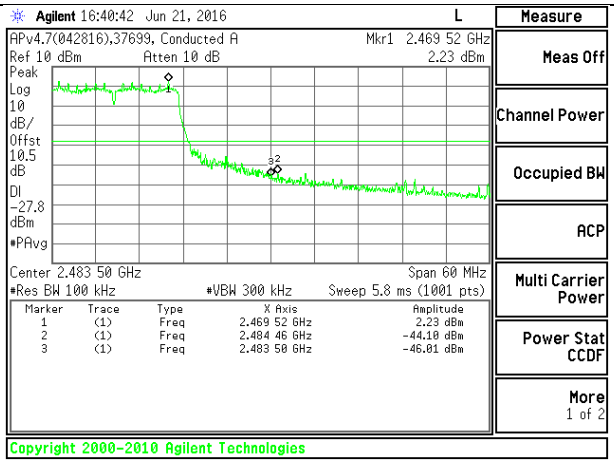
OUT OF BAND MID CHANNEL



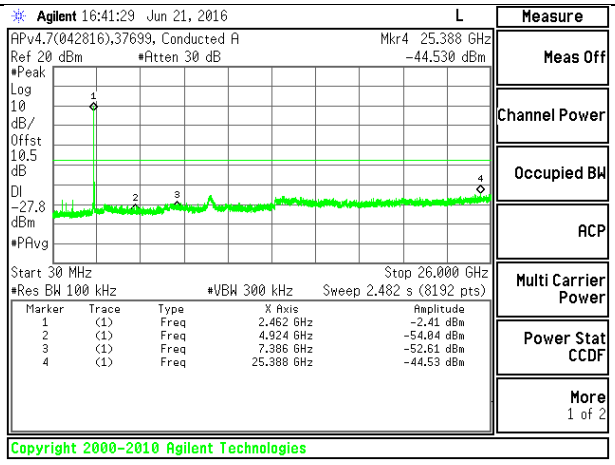
CHANNEL 10 BANDEDGE



OUT OF BAND CHANNEL 10

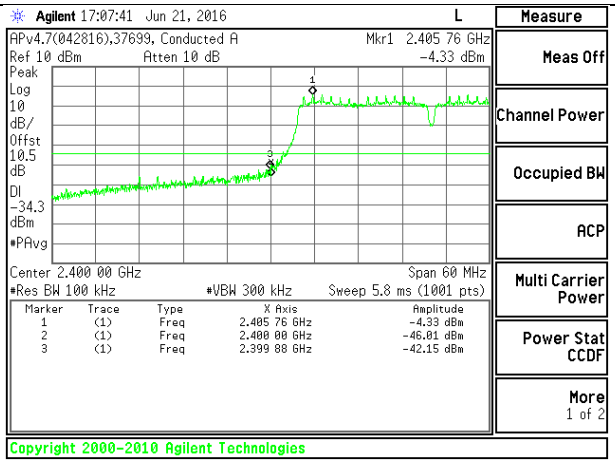


HIGH CHANNEL BANDEDGE

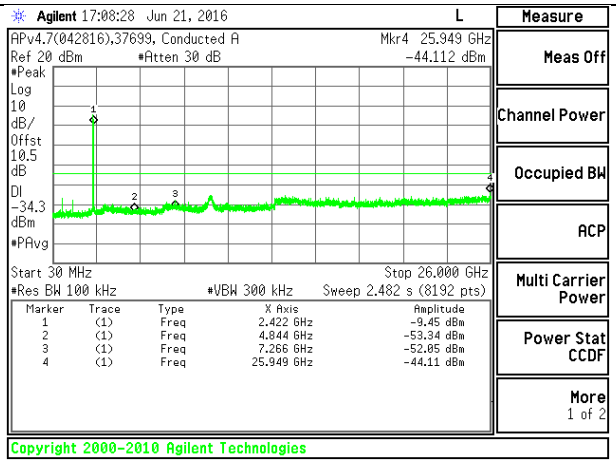


OUT OF BAND HIGH CHANNEL

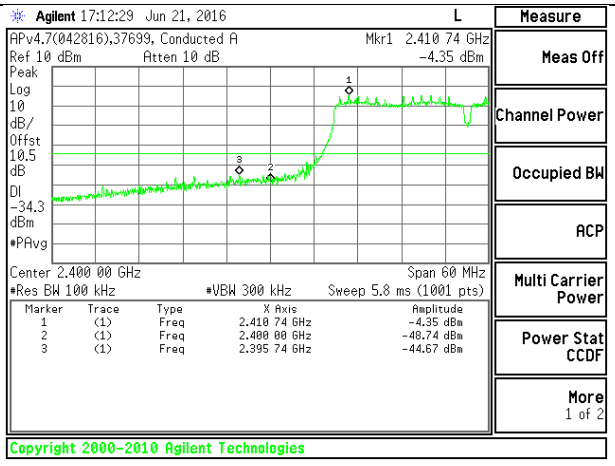
4.6.4. 802.11n HT40 Mode



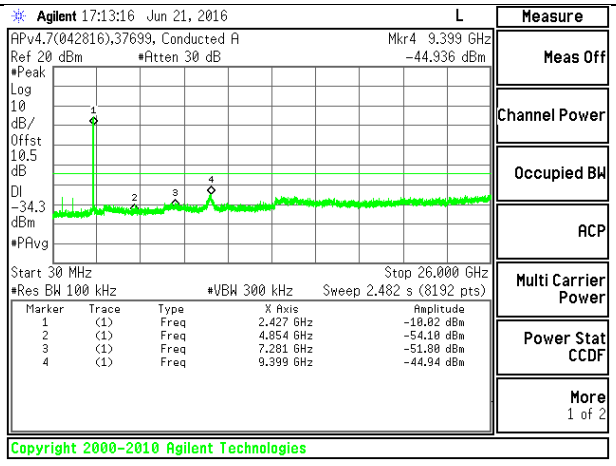
LOW CHANNEL BANDEDGE



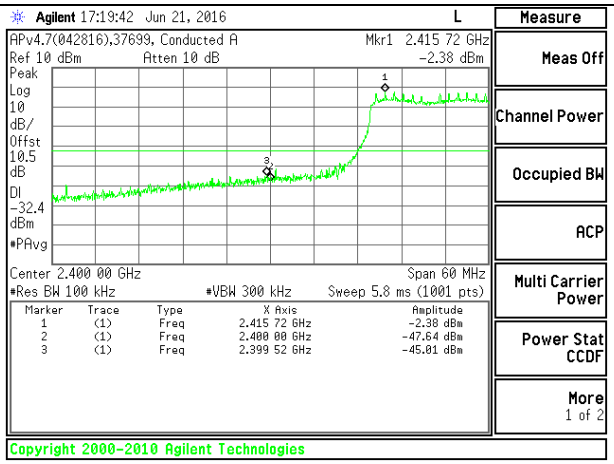
OUT OF BAND LOW CHANNEL



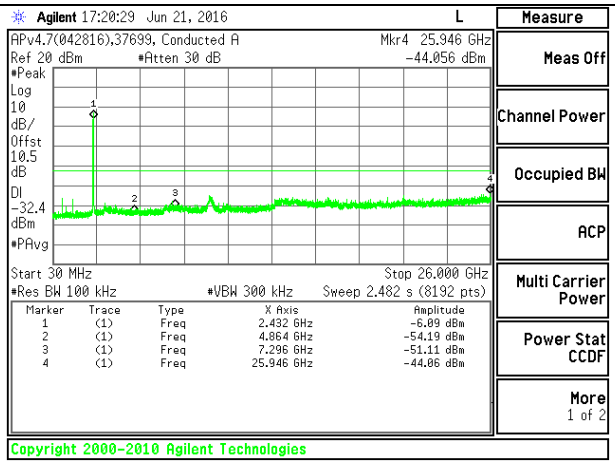
CHANNEL 4 BANDEDGE



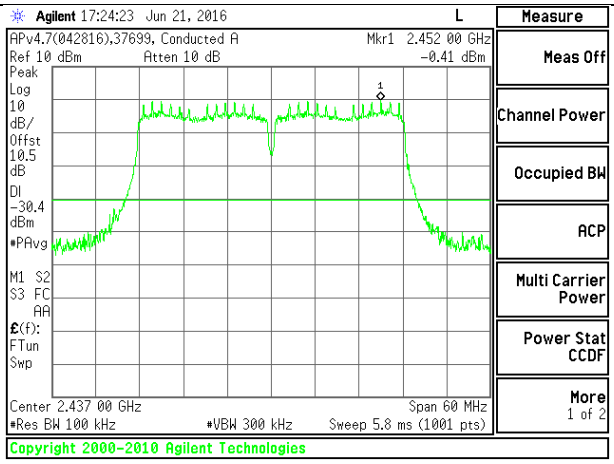
OUT OF BAND CHANNEL 4



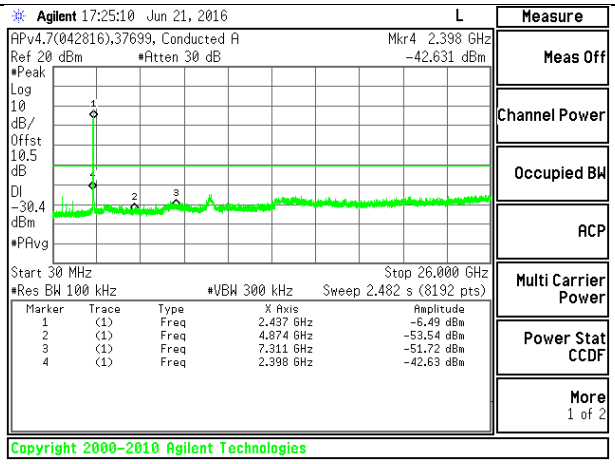
CHANNEL 5 BANDEDGE



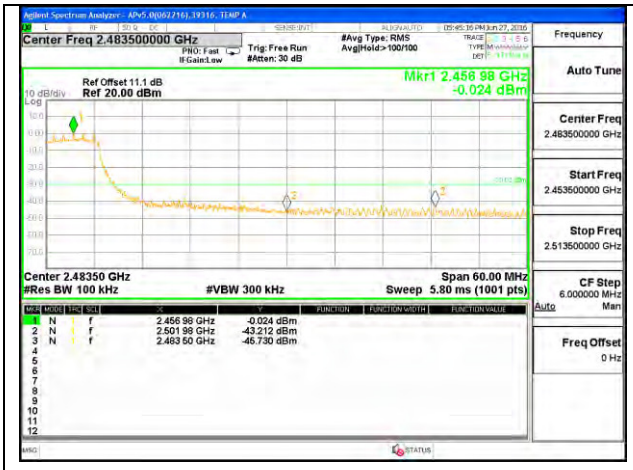
OUT OF BAND CHANNEL 5



IN-BAND REFERENCE LEVEL



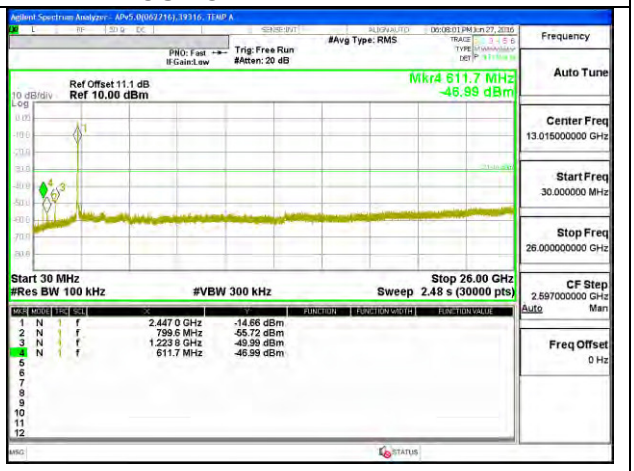
OUT OF BAND MID CHANNEL



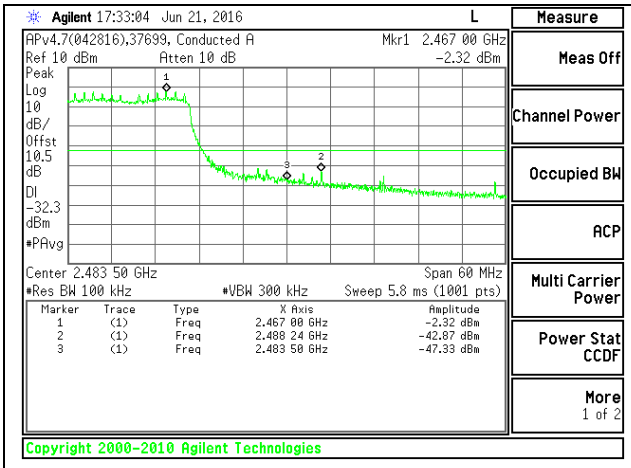
CHANNEL 7 BANDEDGE

OUT OF BAND CHANNEL 7

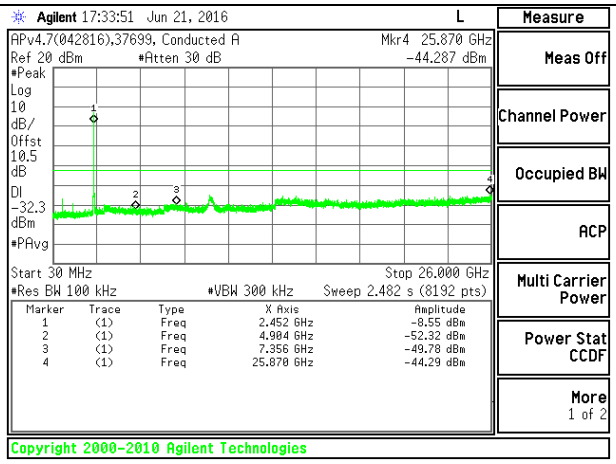
CHANNEL 8 BANDEDGE



OUT OF BAND CHANNEL 8



HIGH CHANNEL BANEDGE



OUT OF BAND HIGH CHANNEL

5. RADIATED TEST RESULTS

5.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 (Transmitter)

IC RSS-GEN Clause 7 (Receiver)

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for 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 1 MHz for peak measurements and add duty cycle factor 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.

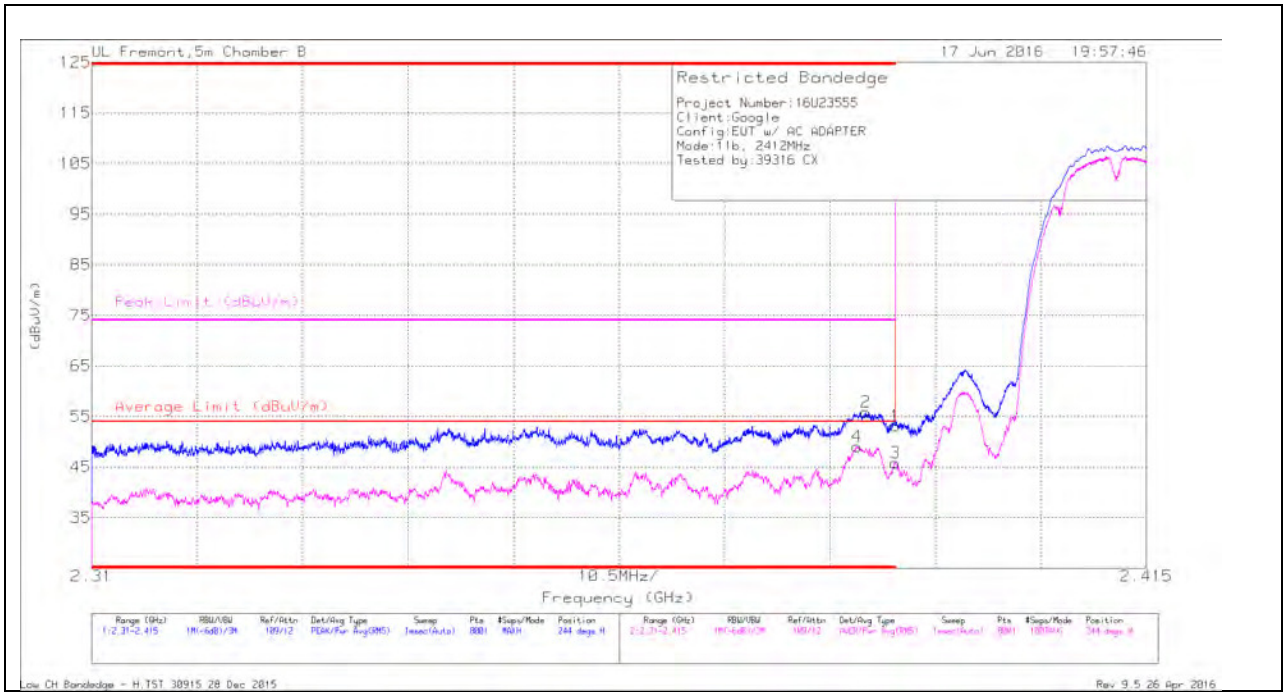
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

5.2. TRANSMITTER ABOVE 1 GHz

5.2.1. TX ABOVE 1 GHz 802.11b MODE

RESTRICTED BANDEDGE (LOW CHANNEL)

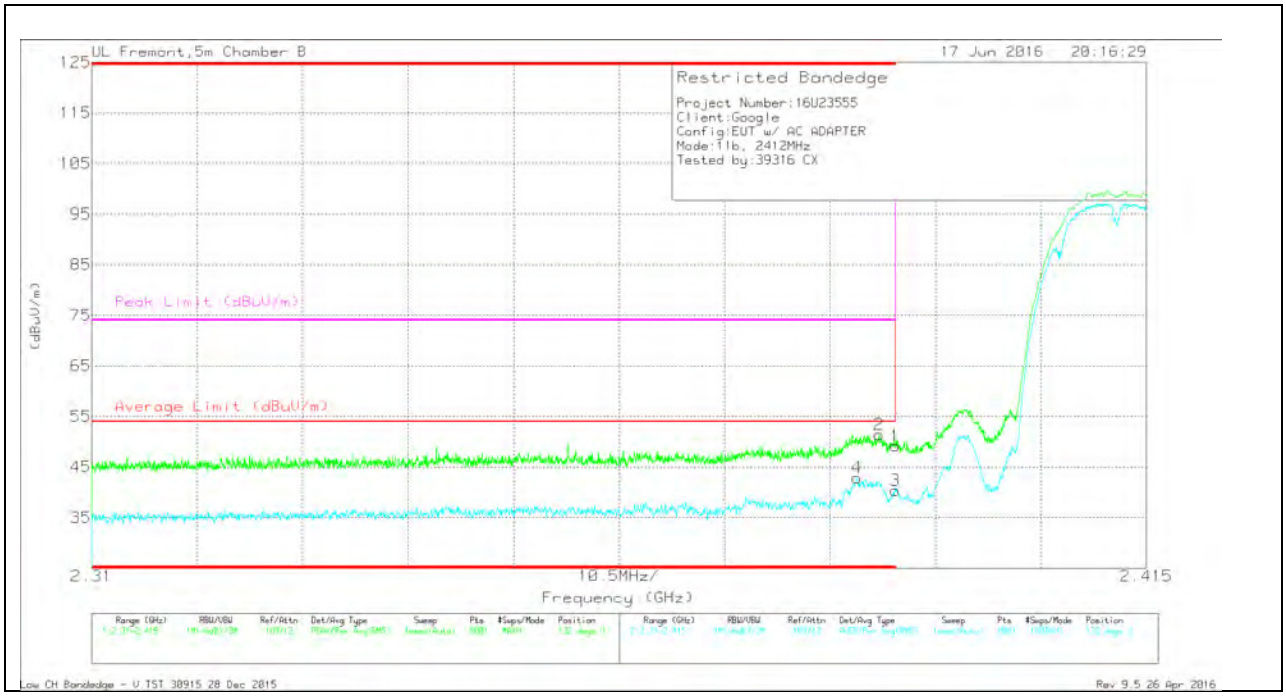
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.38	Pk	32.1	-22.3	53.18	-	-	74	-20.82	244	135	H
2	* 2.387	46.14	Pk	32.1	-22.4	55.84	-	-	74	-18.16	244	135	H
3	* 2.39	36	RMS	32.1	-22.3	45.8	54	-8.2	-	-	244	135	H
4	* 2.386	39.3	RMS	32.1	-22.4	49	54	-5	-	-	244	135	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

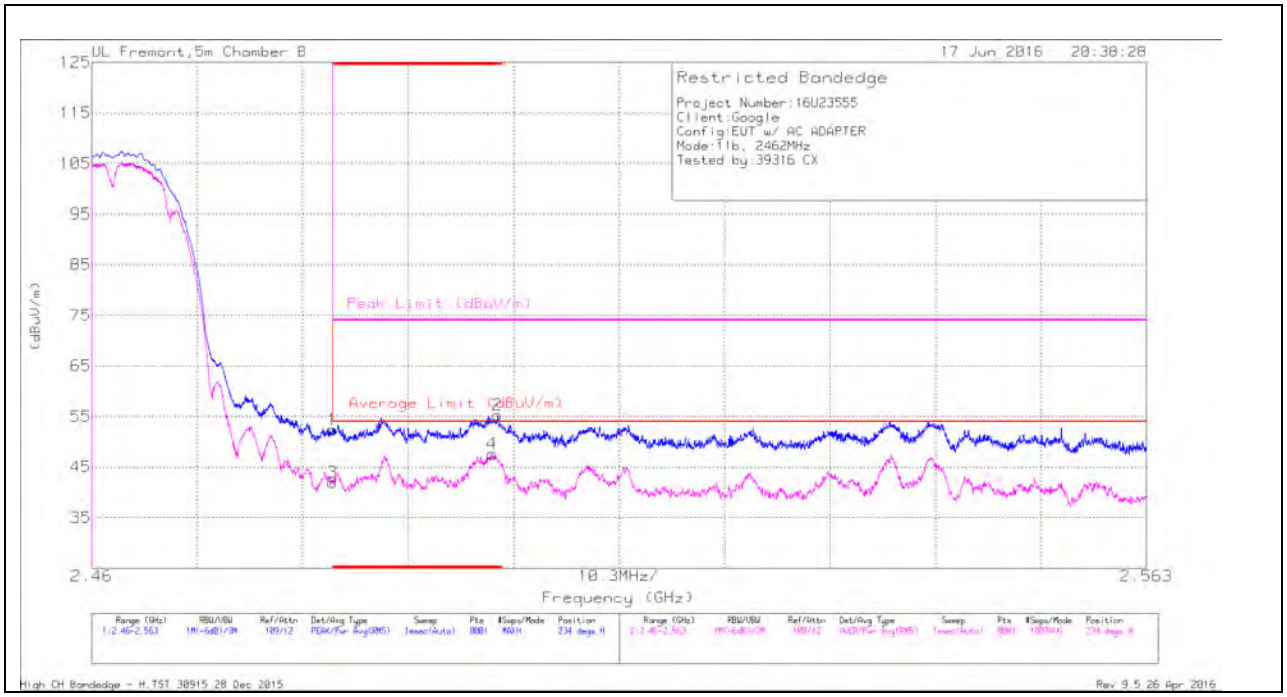


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.33	Pk	32.1	-22.3	49.13	-	-	74	-24.87	132	139	V
2	* 2.388	41.76	Pk	32.1	-22.4	51.46	-	-	74	-22.54	132	139	V
3	* 2.39	30.59	RMS	32.1	-22.3	40.39	54	-13.61	-	-	132	139	V
4	* 2.386	33.19	RMS	32.1	-22.4	42.89	54	-11.11	-	-	132	139	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

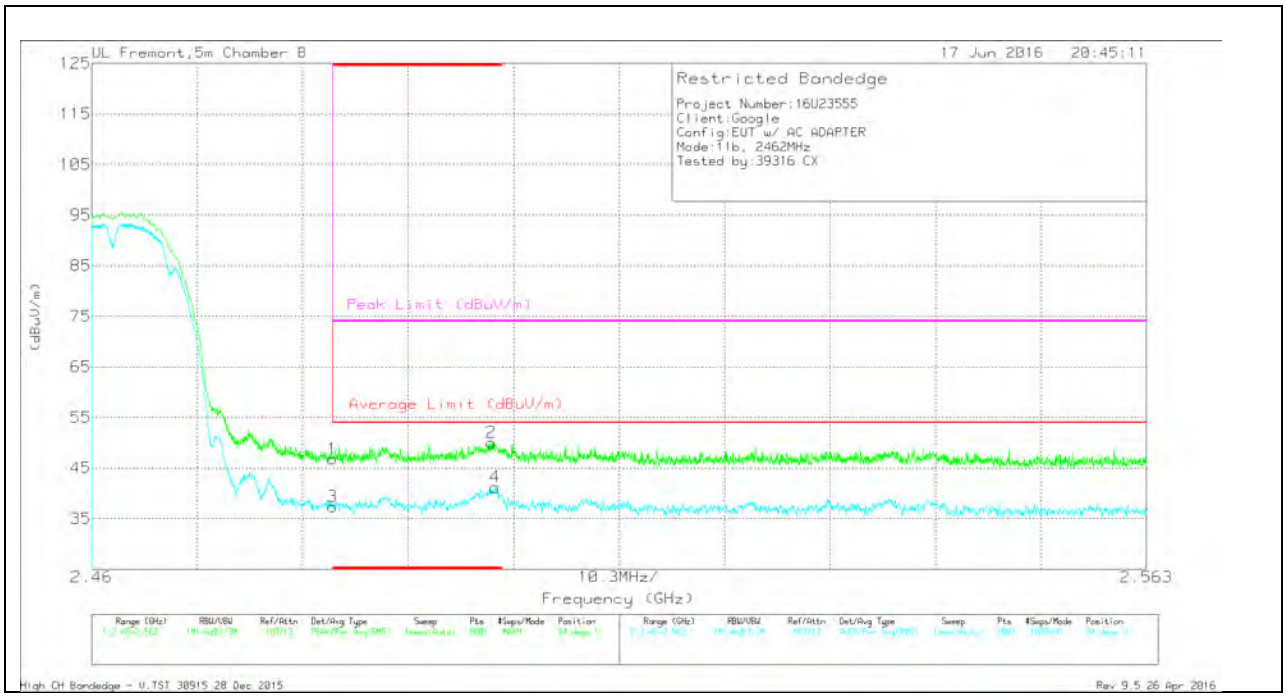
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.44	Pk	32.3	-22.3	52.44	-	-	74	-21.56	234	134	H
2	* 2.5	45.24	Pk	32.3	-22.3	55.24	-	-	74	-18.76	234	134	H
3	* 2.484	31.93	RMS	32.3	-22.3	41.93	54	-12.07	-	-	234	134	H
4	* 2.499	37.53	RMS	32.3	-22.3	47.53	54	-6.47	-	-	234	134	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

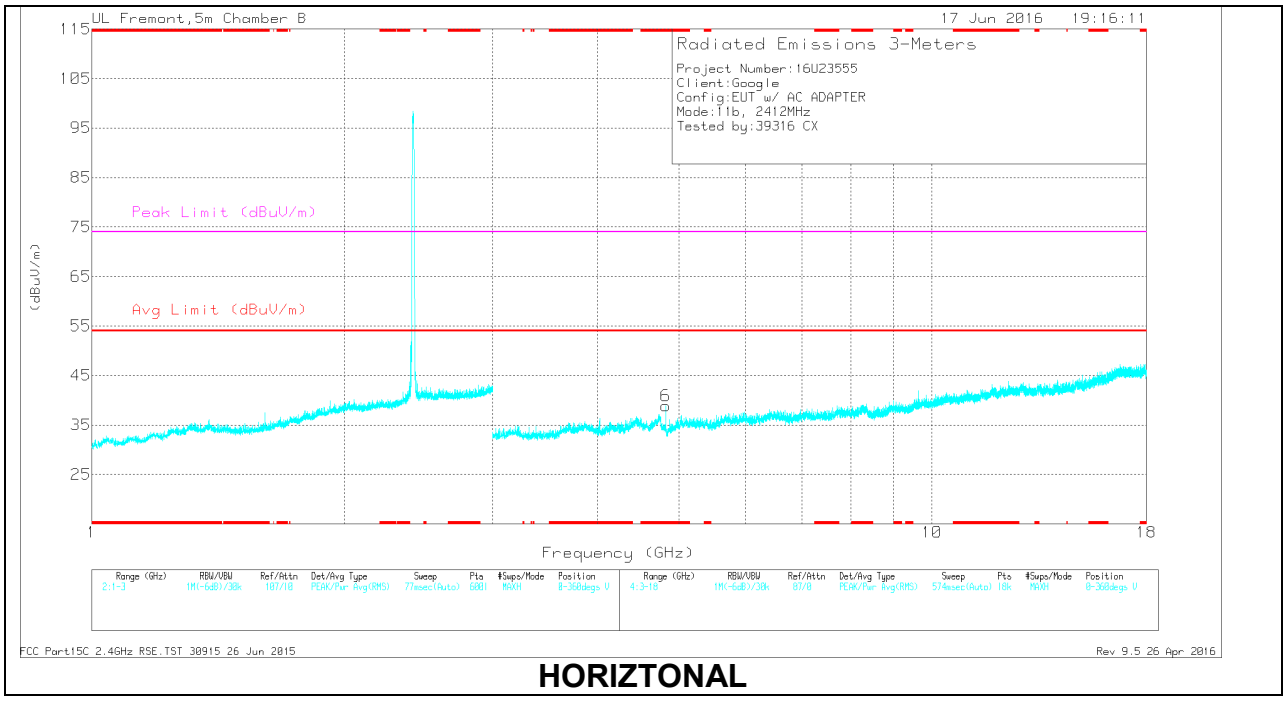


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	36.78	Pk	32.3	-22.3	46.78	-	-	74	-27.22	84	311	V
2	* 2.499	40.07	Pk	32.3	-22.3	50.07	-	-	74	-23.93	84	311	V
3	* 2.484	27.36	RMS	32.3	-22.3	37.36	54	-16.64	-	-	84	311	V
4	* 2.499	31.17	RMS	32.3	-22.3	41.17	54	-12.83	-	-	84	311	V

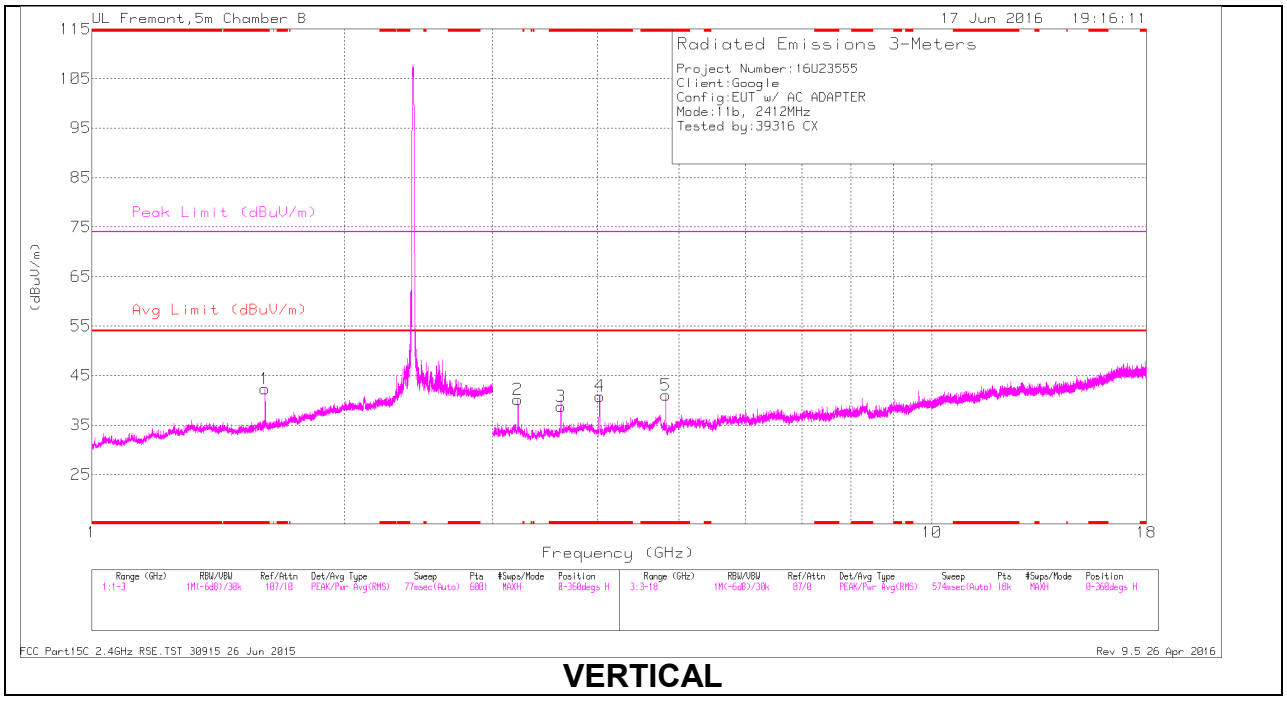
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZTONAL



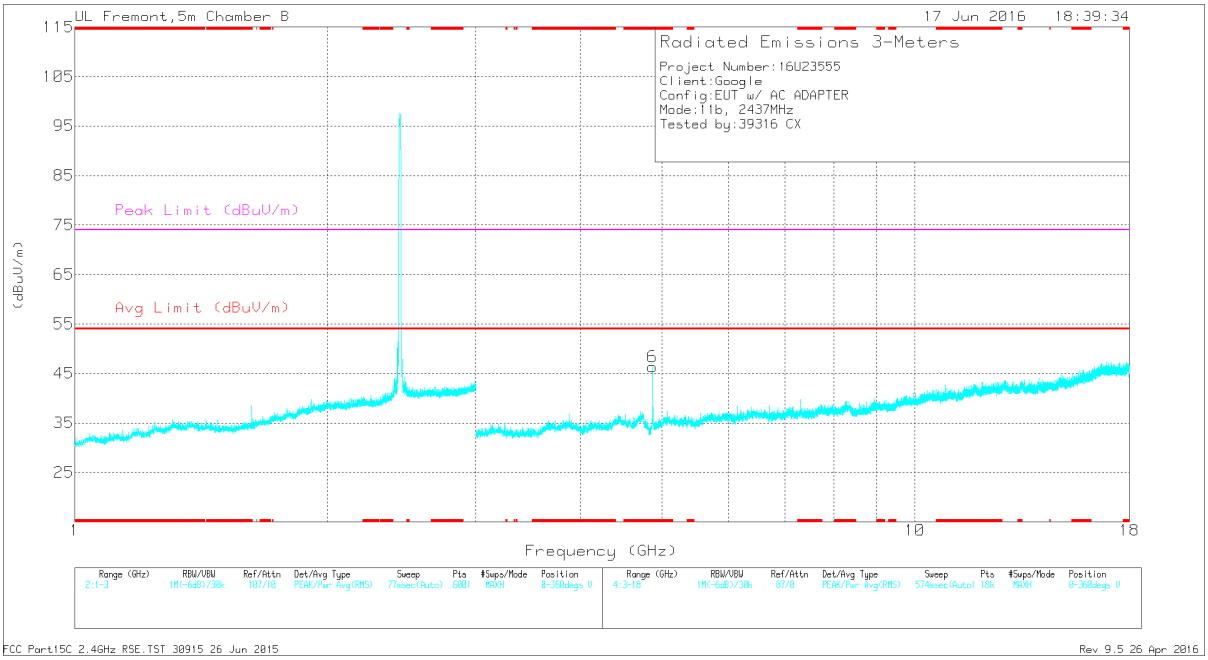
VERTICAL

LOW CHANNEL DATA

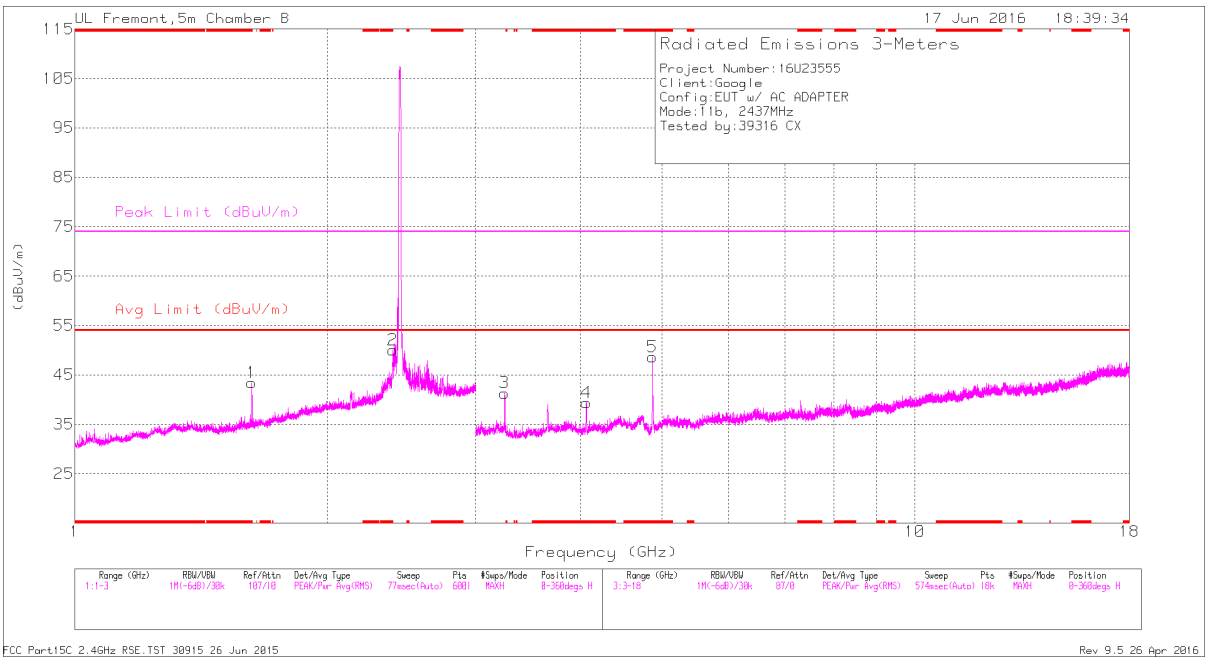
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.608	40.41	PK2	28.2	-22.4	46.21	-	-	74	-27.79	219	101	H
	* 1.608	35.2	MAv1	28.2	-22.4	41	54	-13	-	-	219	101	H
2	* 3.618	44.86	PK2	33.1	-33.2	44.76	-	-	74	-29.24	150	340	H
	* 3.618	38.18	MAv1	33.1	-33.2	38.08	54	-15.92	-	-	150	340	H
4	* 4.019	45.55	PK2	33.4	-33	45.95	-	-	74	-28.05	151	101	H
	* 4.018	39.71	MAv1	33.4	-33	40.11	54	-13.89	-	-	151	101	H
5	* 4.824	44.56	PK2	33.8	-31.8	46.56	-	-	74	-27.44	217	113	H
	* 4.824	37.93	MAv1	33.8	-31.8	39.93	54	-14.07	-	-	217	113	H
6	* 4.824	42.12	PK2	33.8	-31.8	44.12	-	-	74	-29.88	50	108	V
	* 4.824	36.18	MAv1	33.8	-31.8	38.18	54	-15.82	-	-	50	108	V
2	3.216	39.76	Pk	32.9	-32.5	40.16	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZTONAL



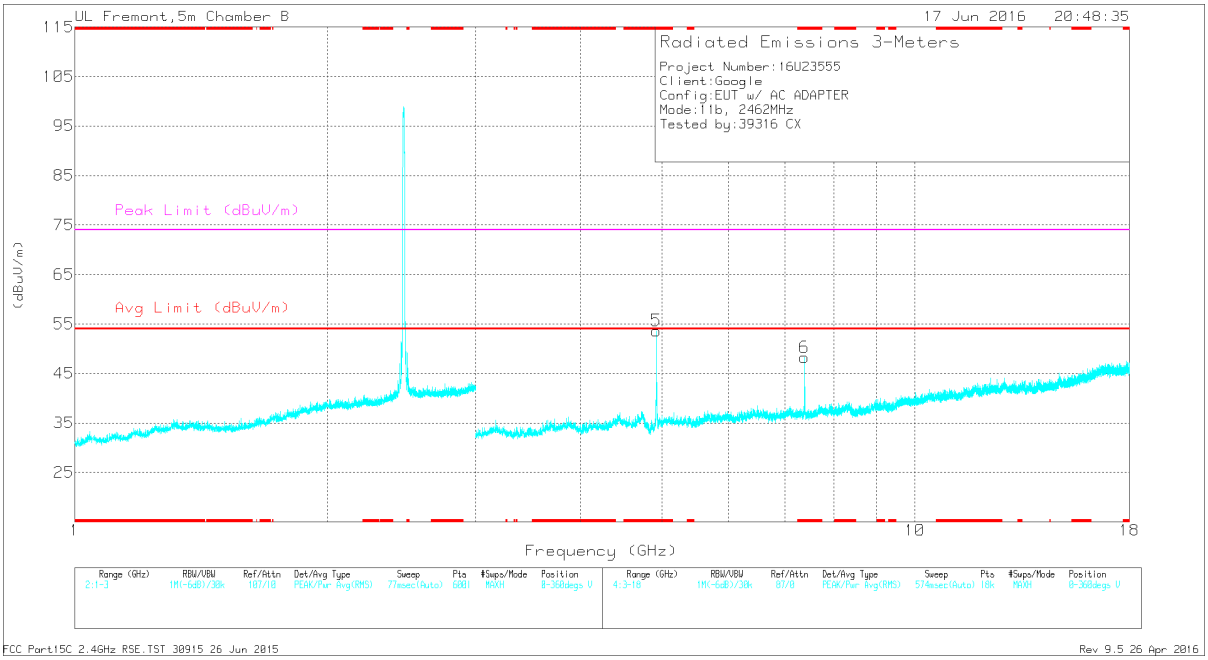
VERTICAL

MID CHANNEL DATA

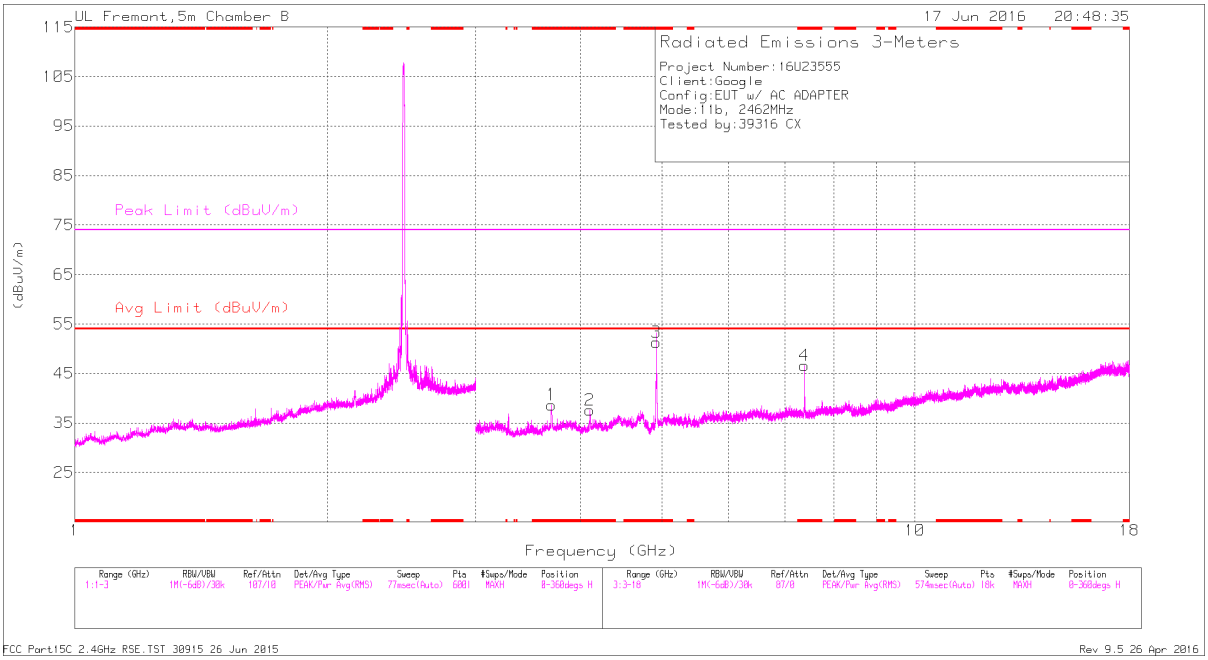
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.625	41.43	PK2	28.4	-22.5	47.33	-	-	74	-26.67	231	191	H
	* 1.625	36.79	MAv1	28.4	-22.5	42.69	54	-11.31	-	-	231	191	H
2	* 2.39	45.42	PK2	32.1	-22.3	55.22	-	-	74	-18.78	243	194	H
	* 2.389	37.56	MAv1	32.1	-22.3	47.36	54	-6.64	-	-	243	194	H
4	* 4.061	43.26	PK2	33.6	-33	43.86	-	-	74	-30.14	147	338	H
	* 4.06	36.56	MAv1	33.6	-33	37.16	54	-16.84	-	-	147	338	H
5	* 4.874	51.79	PK2	33.8	-32.7	52.89	-	-	74	-21.11	215	101	H
	* 4.874	47.84	MAv1	33.8	-32.7	48.94	54	-5.06	-	-	215	101	H
6	* 4.874	46.31	PK2	33.8	-32.7	47.41	-	-	74	-26.59	81	103	V
	* 4.874	42.14	MAv1	33.8	-32.7	43.24	54	-10.76	-	-	81	103	V
3	3.249	41.45	Pk	32.8	-32.9	41.35	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZTONAL



VERTICAL

HIGH CHANNEL DATA

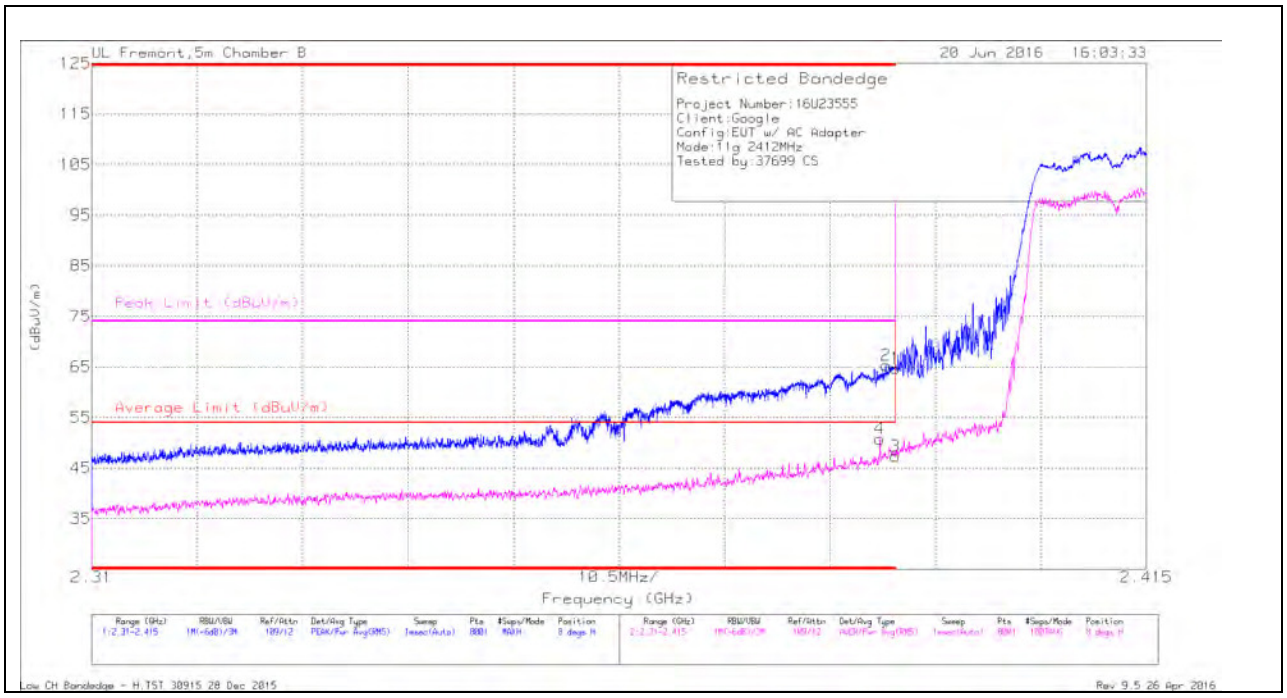
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.924	55.14	PK2	33.9	-32.9	56.14	-	-	74	-17.86	316	115	H
	* 4.924	49.55	MAv1	33.9	-32.9	50.55	54	-3.45	-	-	316	115	H
4	* 7.385	41.59	PK2	35.6	-29.6	47.59	-	-	74	-26.41	211	119	H
	* 7.385	34.99	MAv1	35.6	-29.6	40.99	54	-13.01	-	-	211	119	H
1	* 3.693	43.95	PK2	33.4	-32.8	44.55	-	-	74	-29.45	147	358	H
	* 3.693	36.1	MAv1	33.4	-32.8	36.7	54	-17.3	-	-	147	358	H
2	* 4.1	41.5	PK2	33.7	-32.8	42.4	-	-	74	-31.6	157	354	H
	* 4.101	34.18	MAv1	33.7	-32.8	35.08	54	-18.92	-	-	157	354	H
5	* 4.924	53.44	PK2	33.9	-32.9	54.44	-	-	74	-19.56	42	101	V
	* 4.924	49.74	MAv1	33.9	-32.9	50.74	54	-3.26	-	-	42	101	V
6	* 7.385	39.29	PK2	35.6	-29.6	45.29	-	-	74	-28.71	263	303	V
	* 7.387	32.24	MAv1	35.6	-29.5	38.34	54	-15.66	-	-	263	303	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

5.2.2. TX ABOVE 1 GHz 802.11g MODE

RESTRICTED BANDEDGE (LOW CHANNEL)

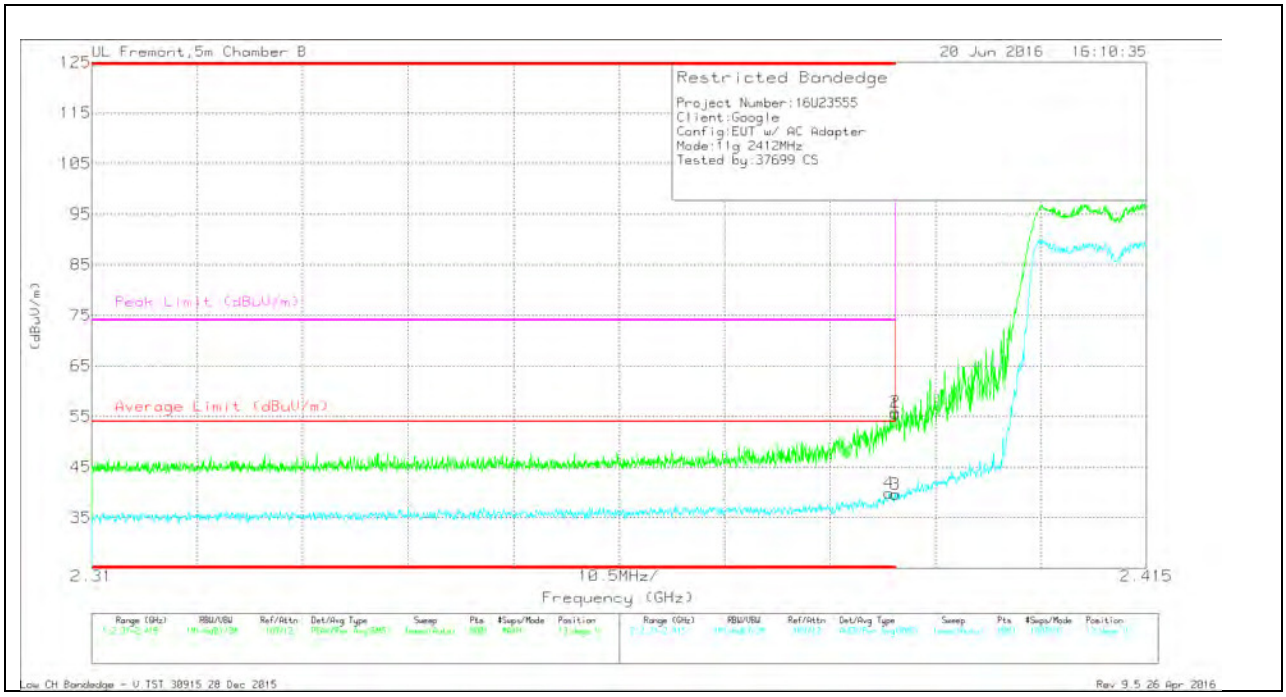
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.91	Pk	32.1	-22.3	64.71	-	-	74	-9.29	8	122	H
2	* 2.389	55.52	Pk	32.1	-22.3	65.32	-	-	74	-8.68	8	122	H
3	* 2.39	37.47	RMS	32.1	-22.3	47.27	54	-6.73	-	-	8	122	H
4	* 2.388	41.03	RMS	32.1	-22.4	50.73	54	-3.27	-	-	8	122	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

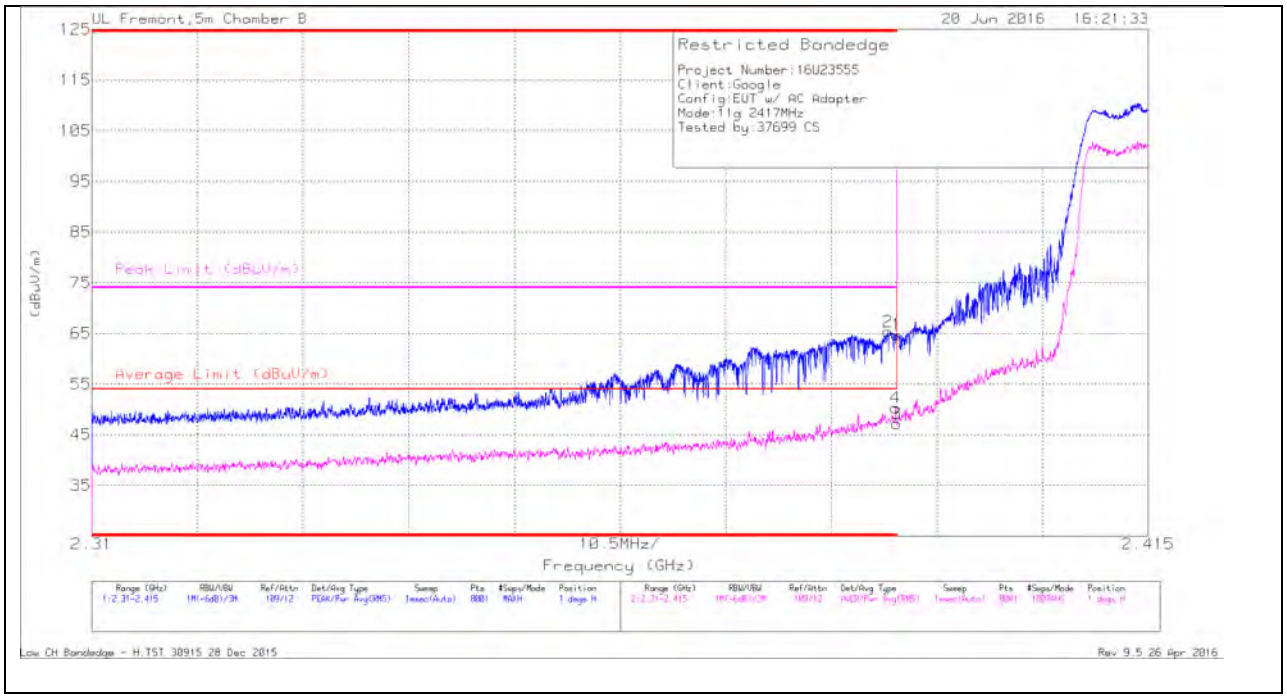


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.69	Pk	32.1	-22.3	55.49	-	-	74	-18.51	13	102	V
2	* 2.39	46.09	Pk	32.1	-22.3	55.89	-	-	74	-18.11	13	102	V
3	* 2.39	29.82	RMS	32.1	-22.3	39.62	54	-14.38	-	-	13	102	V
4	* 2.389	30.03	RMS	32.1	-22.3	39.83	54	-14.17	-	-	13	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 2)

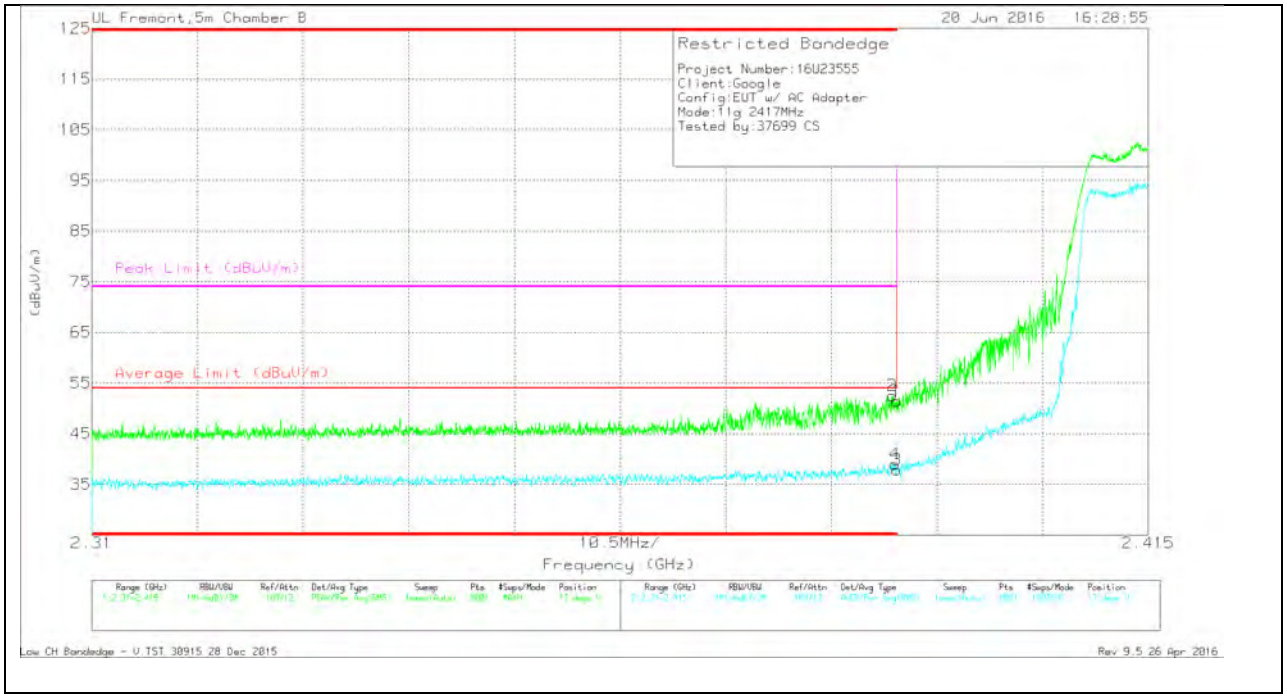
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.93	Pk	32.1	-22.3	64.73	-	-	74	-9.27	1	181	H
2	* 2.389	55.49	Pk	32.1	-22.3	65.29	-	-	74	-8.71	1	181	H
3	* 2.39	37.37	RMS	32.1	-22.3	47.17	54	-6.83	-	-	1	181	H
4	* 2.39	40.45	RMS	32.1	-22.3	50.25	54	-3.75	-	-	1	181	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

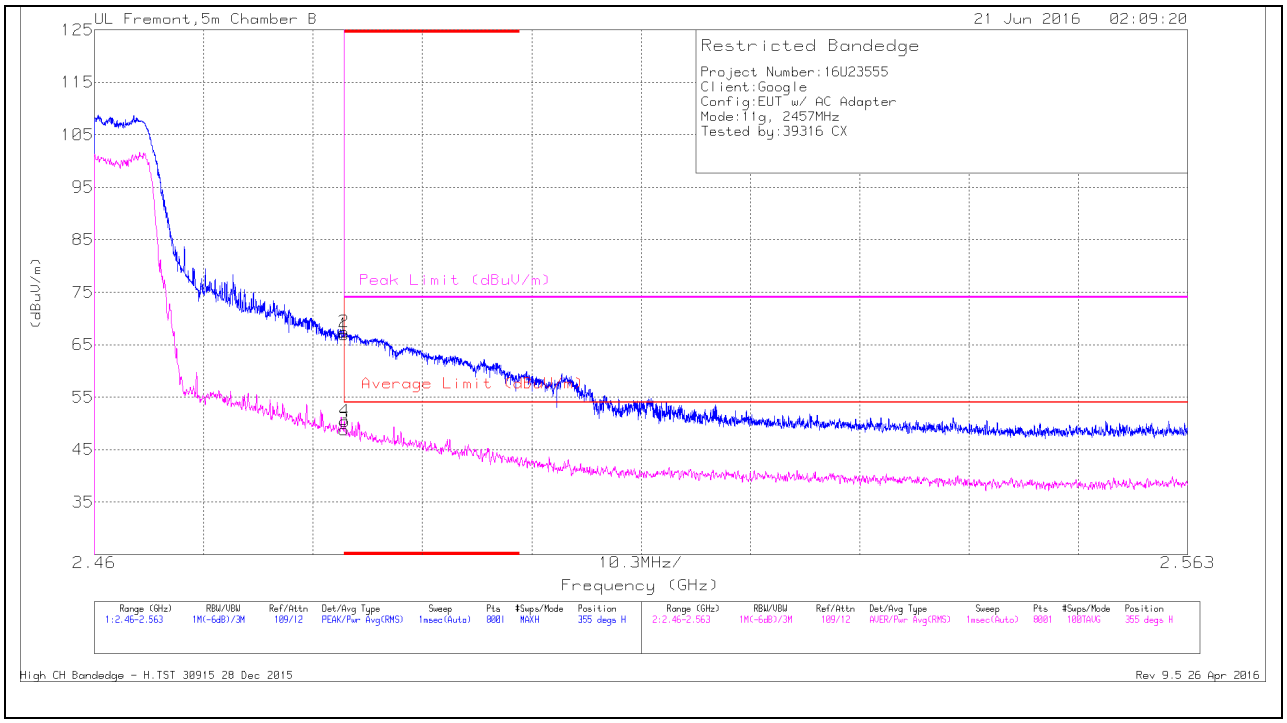


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.67	Pk	32.1	-22.3	51.47	-	-	74	-22.53	17	317	V
2	* 2.39	42.68	Pk	32.1	-22.3	52.48	-	-	74	-21.52	17	317	V
3	* 2.39	28.09	RMS	32.1	-22.3	37.89	54	-16.11	-	-	17	317	V
4	* 2.39	29.18	RMS	32.1	-22.3	38.98	54	-15.02	-	-	17	317	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)

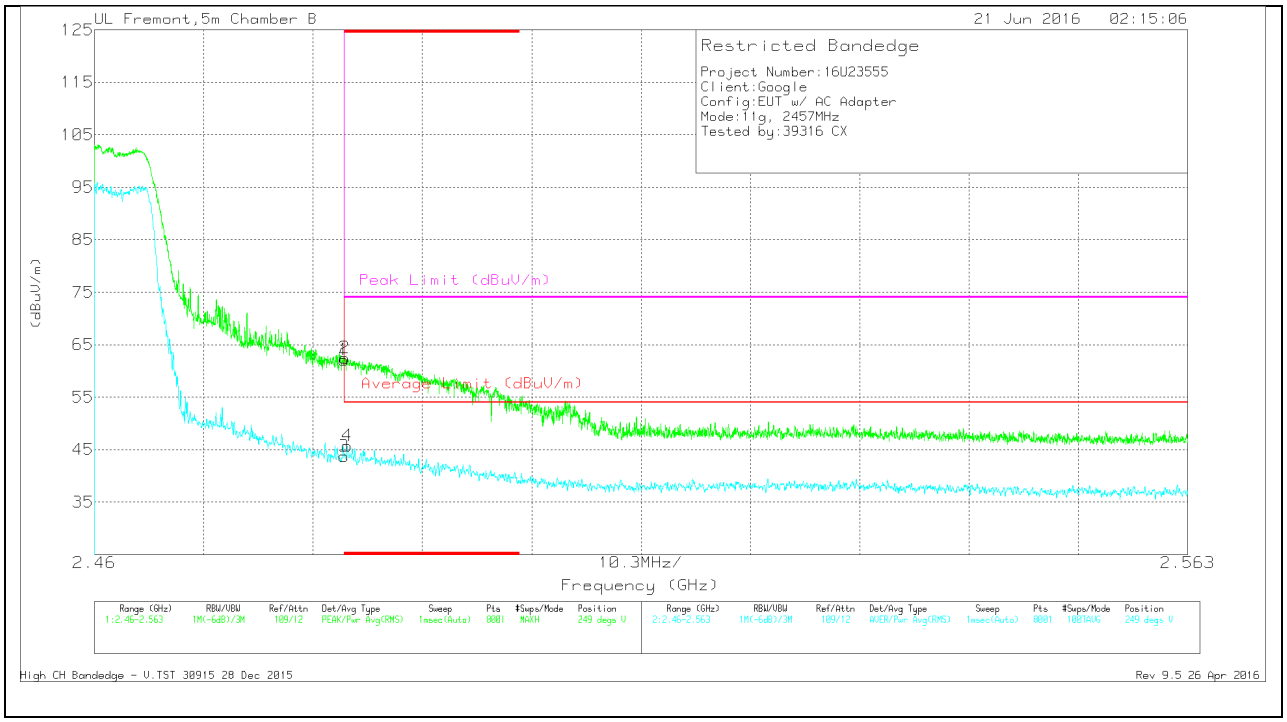
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	56.93	Pk	32.3	-22.3	66.93	-	-	74	-7.07	355	278	H
2	* 2.484	57.47	Pk	32.3	-22.3	67.47	-	-	74	-6.53	355	278	H
3	* 2.484	38.77	RMS	32.3	-22.3	48.77	54	-5.23	-	-	355	278	H
4	* 2.484	40.42	RMS	32.3	-22.3	50.42	54	-3.58	-	-	355	278	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

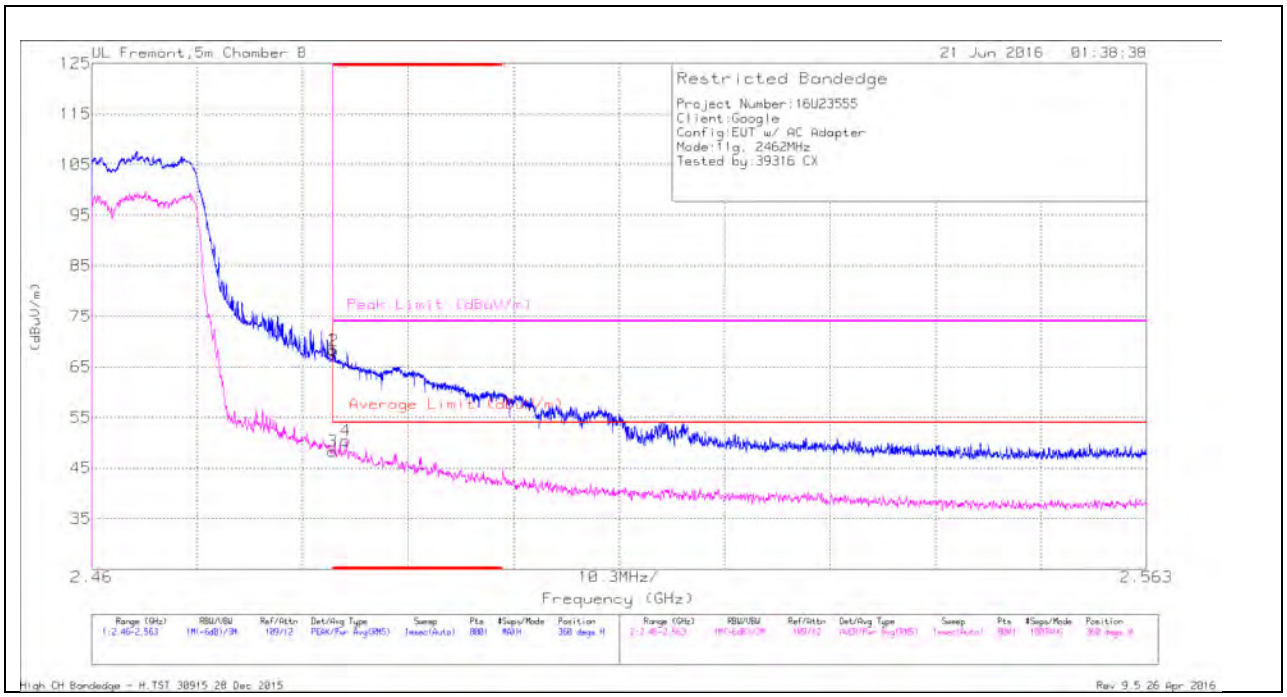


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.03	Pk	32.3	-22.3	62.03	-	-	74	-11.97	249	301	V
2	* 2.484	52.51	Pk	32.3	-22.3	62.51	-	-	74	-11.49	249	301	V
3	* 2.484	33.71	RMS	32.3	-22.3	43.71	54	-10.29	-	-	249	301	V
4	* 2.484	35.68	RMS	32.3	-22.3	45.68	54	-8.32	-	-	249	301	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

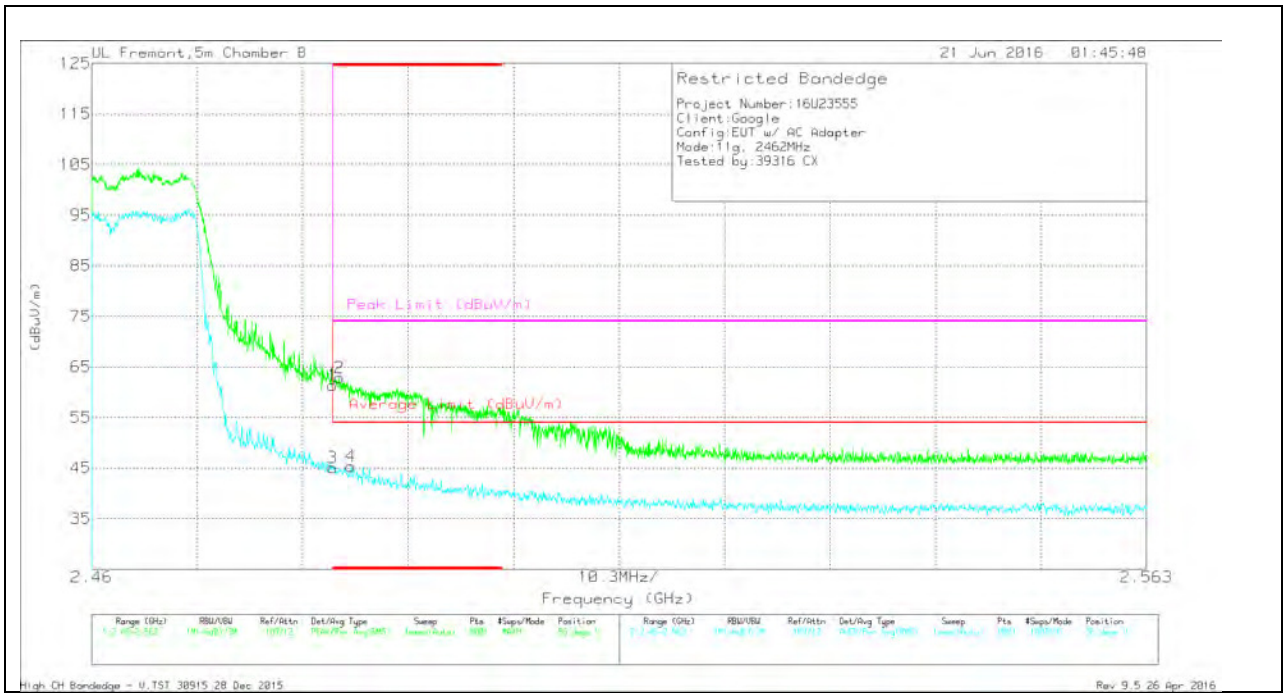
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	58.44	Pk	32.3	-22.3	68.44	-	-	74	-5.56	360	276	H
2	* 2.484	58.15	Pk	32.3	-22.3	68.15	-	-	74	-5.85	360	276	H
3	* 2.484	38.31	RMS	32.3	-22.3	48.31	54	-5.69	-	-	360	276	H
4	* 2.485	40.3	RMS	32.3	-22.2	50.4	54	-3.6	-	-	360	276	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

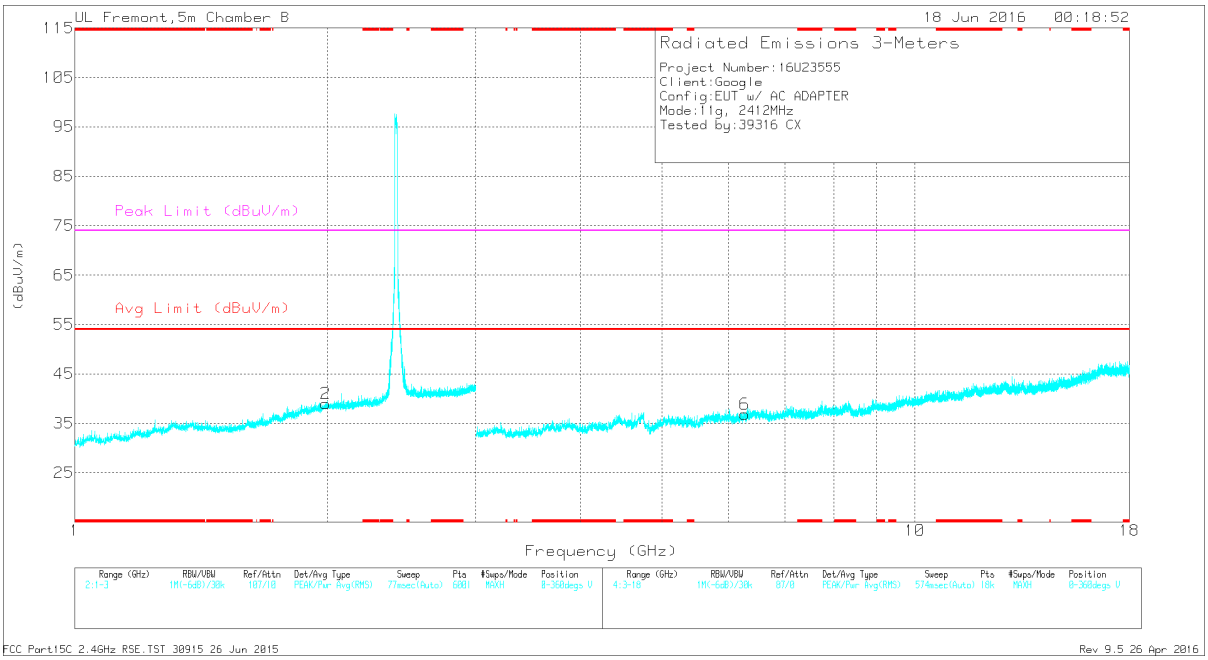


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.32	Pk	32.3	-22.3	61.32	-	-	74	-12.68	56	391	V
2	* 2.484	52.85	Pk	32.3	-22.3	62.85	-	-	74	-11.15	56	391	V
3	* 2.484	35.06	RMS	32.3	-22.3	45.06	54	-8.94	-	-	56	391	V
4	* 2.485	35.22	RMS	32.3	-22.2	45.32	54	-8.68	-	-	56	391	V

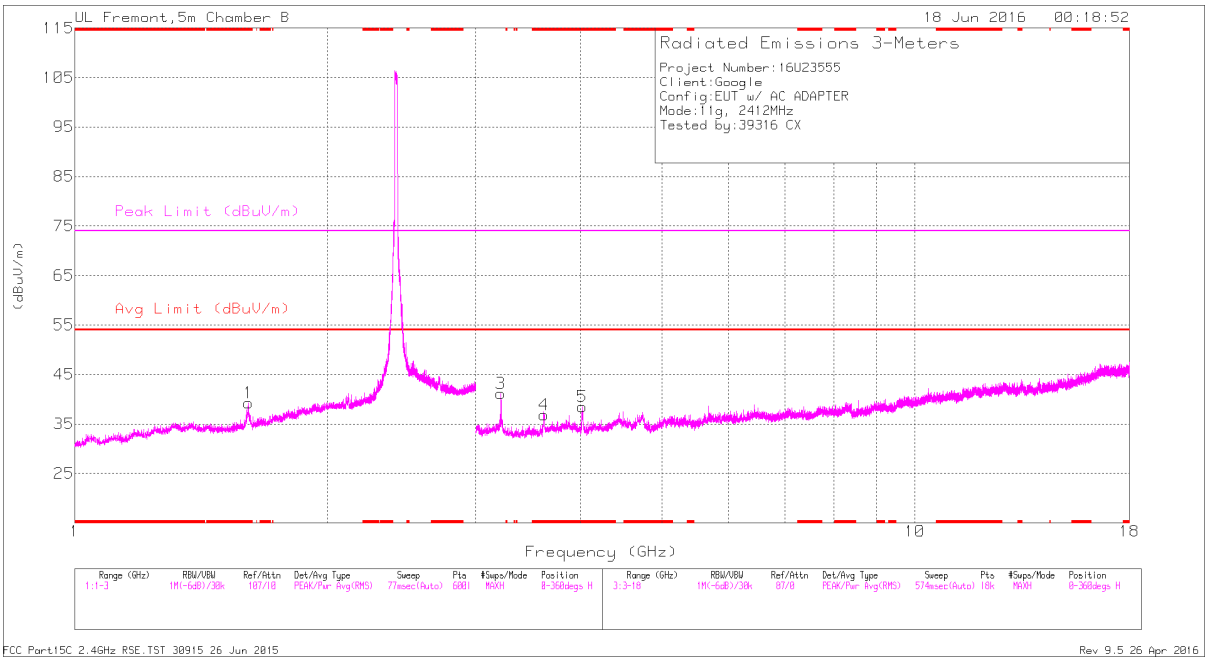
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZTONAL



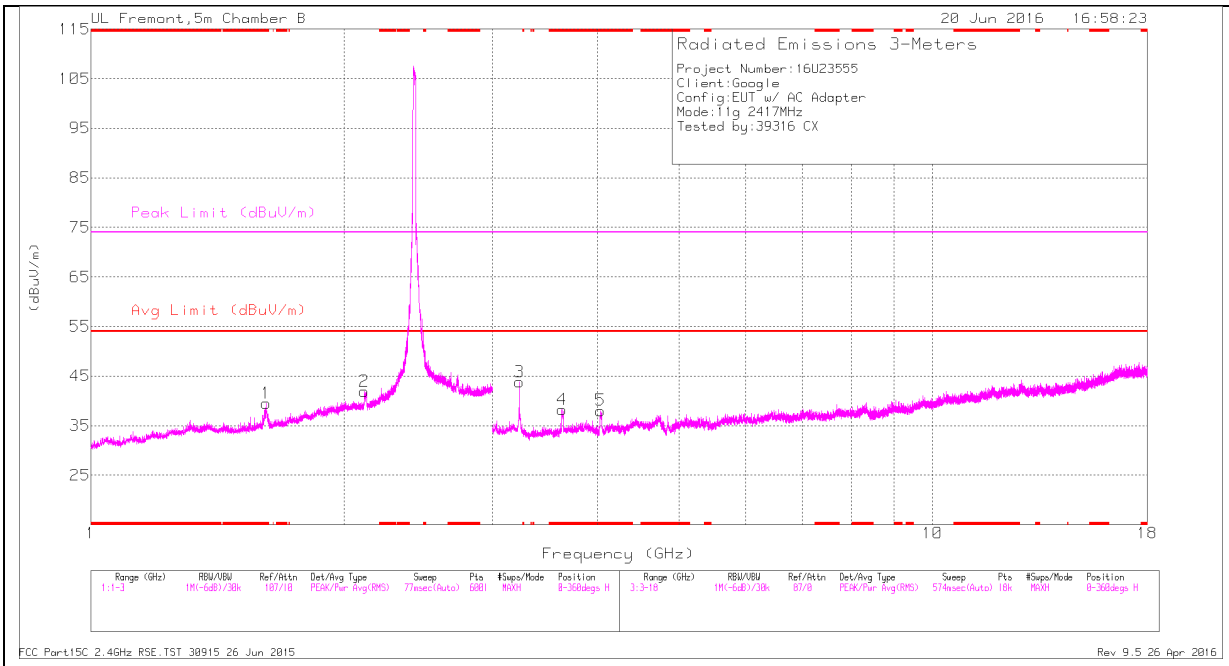
VERTICAL

LOW CHANNEL DATA

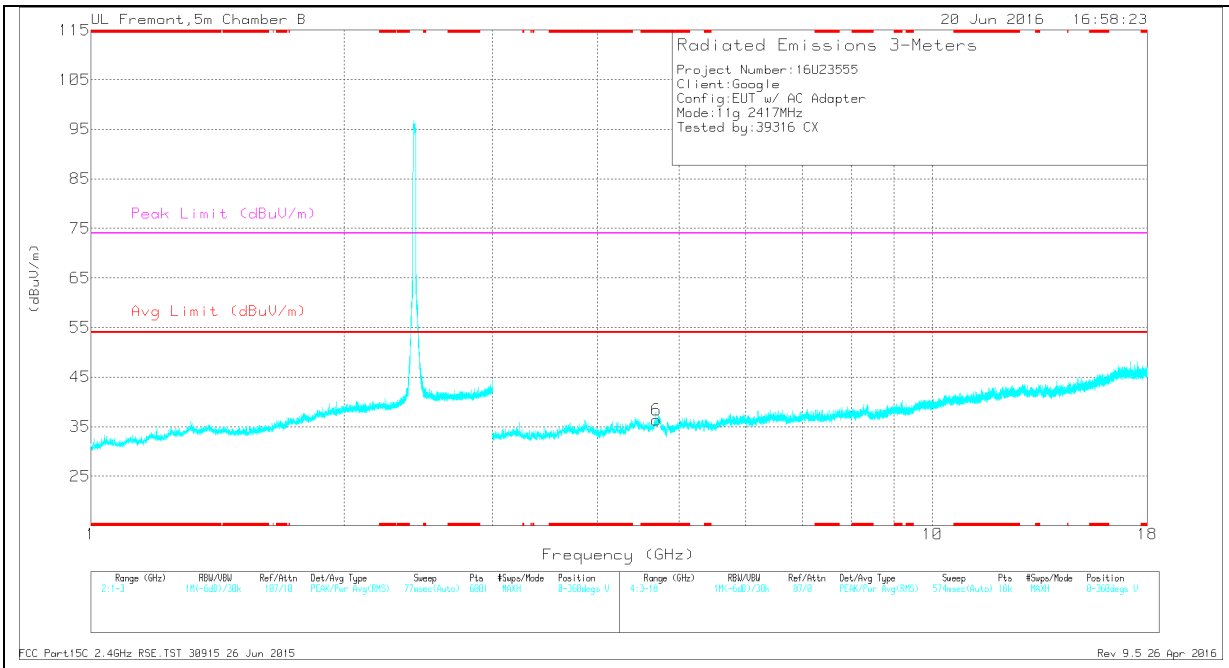
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.608	41.64	PK2	28.2	-22.4	47.44	-	-	74	-26.56	232	239	H
	* 1.608	29.43	MAv1	28.2	-22.4	35.23	54	-18.77	-	-	232	239	H
4	* 3.615	44.83	PK2	33.1	-33.2	44.73	-	-	74	-29.27	148	342	H
	* 3.611	36.13	MAv1	33.1	-33.2	36.03	54	-17.97	-	-	148	342	H
5	* 4.018	43.79	PK2	33.4	-33	44.19	-	-	74	-29.81	154	321	H
	* 4.017	33.93	MAv1	33.4	-33	34.33	54	-19.67	-	-	154	321	H
2	1.989	29.81	Pk	31.4	-22.2	39.01	-	-	-	-	0-360	101	V
3	3.216	40.78	Pk	32.9	-32.5	41.18	-	-	-	-	0-360	101	H
6	6.268	32.33	Pk	35.5	-31	36.83	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 2 RESULTS



HORIZTONAL



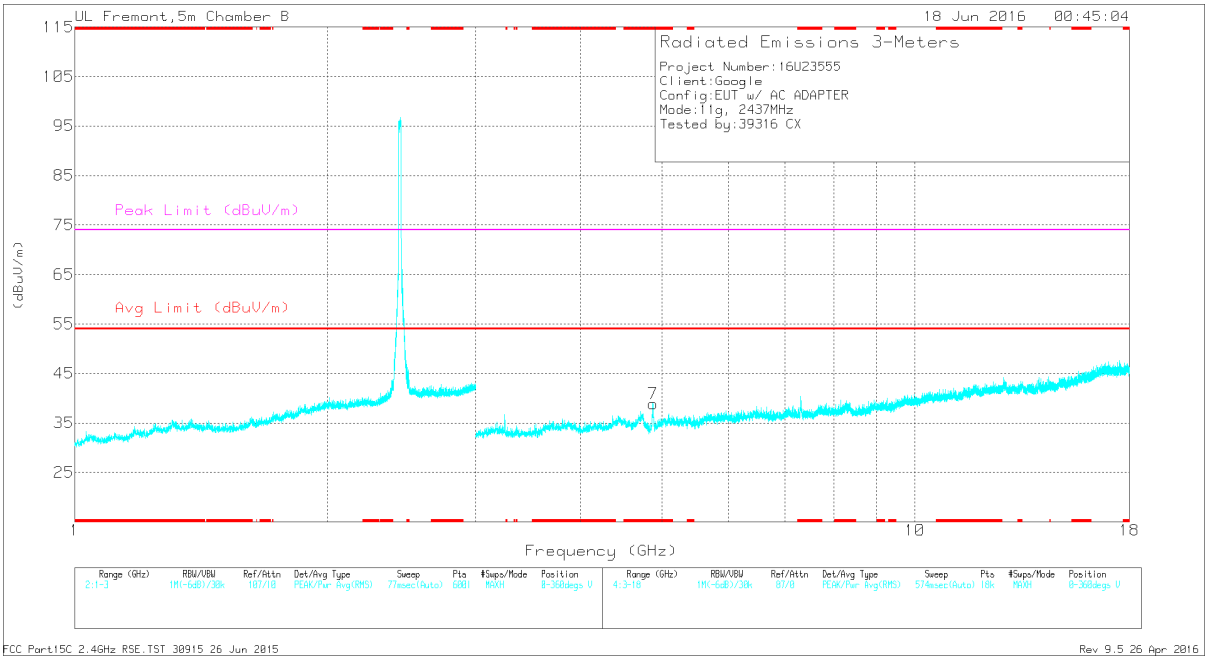
VERTICAL

CHANNEL 2 DATA

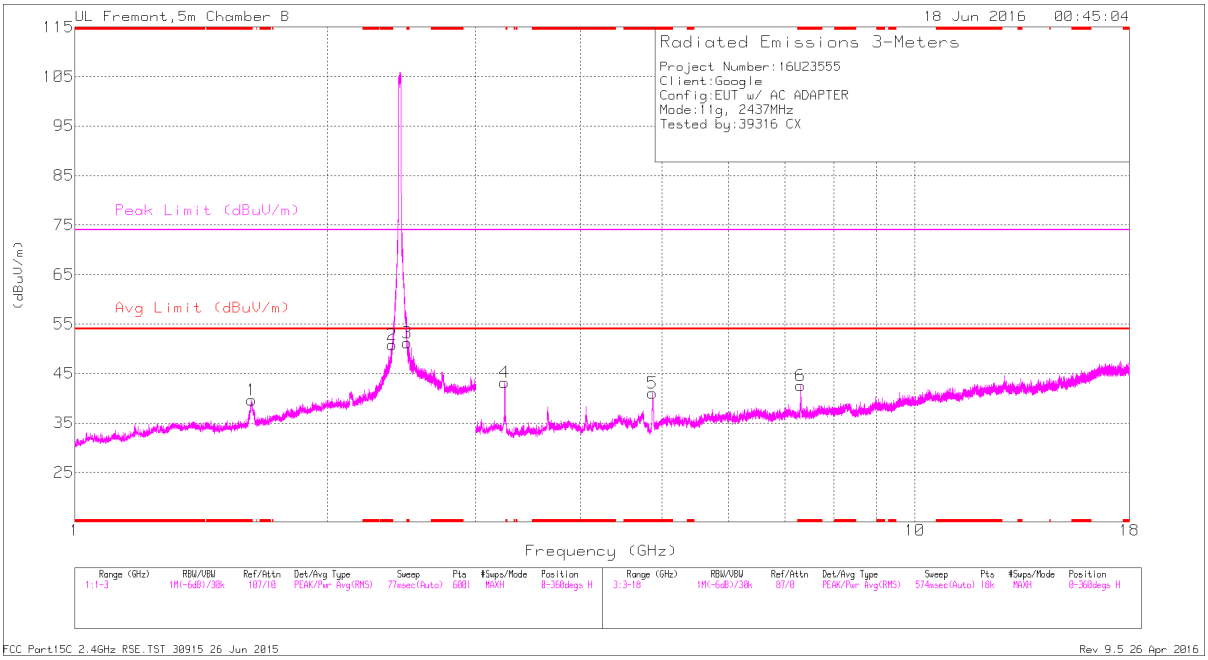
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.615	42.83	PK2	28.3	-22.4	48.73	-	-	74	-25.27	9	108	H
	* 1.615	30.12	MAv1	28.3	-22.4	36.02	54	-17.98	-	-	9	108	H
4	* 3.631	46.17	PK2	33.1	-32.9	46.37	-	-	74	-27.63	258	206	H
	* 3.625	36.81	MAv1	33.1	-33.1	36.81	54	-17.19	-	-	258	206	H
5	* 4.03	44.8	PK2	33.4	-33.1	45.1	-	-	74	-28.9	258	141	H
	* 4.037	34.34	MAv1	33.5	-33.1	34.74	54	-19.26	-	-	258	141	H
6	* 4.693	41.62	PK2	34.1	-32	43.72	-	-	74	-30.28	269	367	V
	* 4.687	30.33	MAv1	34.1	-32.1	32.33	54	-21.67	-	-	269	367	V
2	2.122	40.38	PK2	31.3	-22.5	49.18	-	-	-	-	13	102	H
3	3.229	51.06	PK2	32.9	-32.8	51.16	-	-	-	-	255	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZTONAL



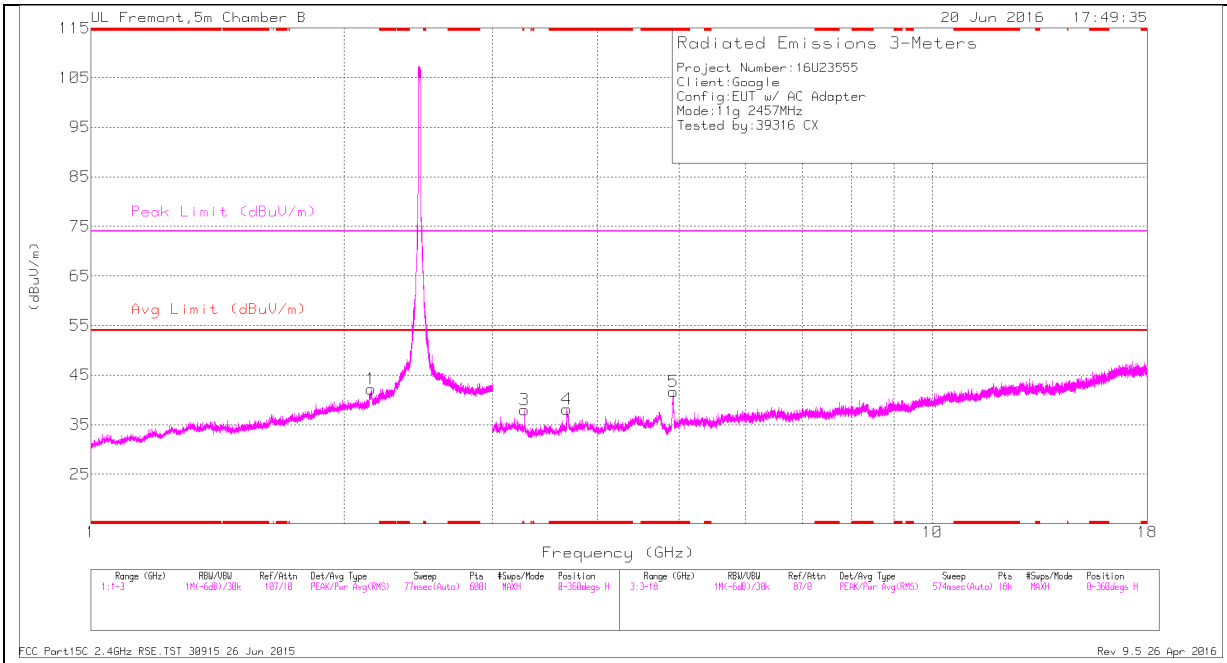
VERTICAL

MID CHANNEL DATA

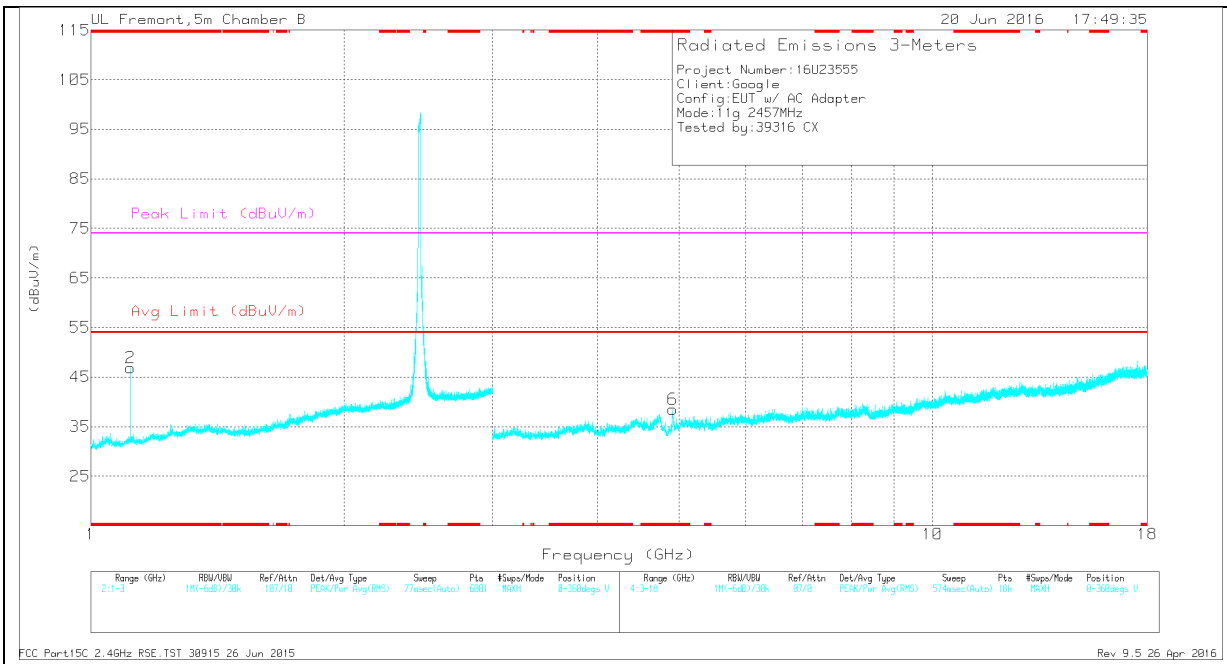
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.387	54.7	PK2	32.1	-22.4	64.4	-	-	74	-9.6	248	173	H
	* 2.39	37.32	MAv1	32.1	-22.3	47.12	54	-6.88	-	-	248	173	H
3	* 2.485	54.87	PK2	32.3	-22.2	64.97	-	-	74	-9.03	261	111	H
	* 2.484	37.16	MAv1	32.3	-22.3	47.16	54	-6.84	-	-	261	111	H
1	* 1.624	43.85	PK2	28.4	-22.5	49.75	-	-	74	-24.25	236	189	H
	* 1.625	31.7	MAv1	28.4	-22.5	37.6	54	-16.4	-	-	236	189	H
5	* 4.877	46.07	PK2	33.8	-32.7	47.17	-	-	74	-26.83	214	102	H
	* 4.874	34.53	MAv1	33.8	-32.7	35.63	54	-18.37	-	-	214	102	H
6	* 7.313	44.77	PK2	35.6	-30.5	49.87	-	-	74	-24.13	226	144	H
	* 7.314	31.46	MAv1	35.6	-30.5	36.56	54	-17.44	-	-	226	144	H
4	3.249	43.34	Pk	32.8	-32.9	43.24	-	-	-	-	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 10 RESULTS



HORIZTONAL



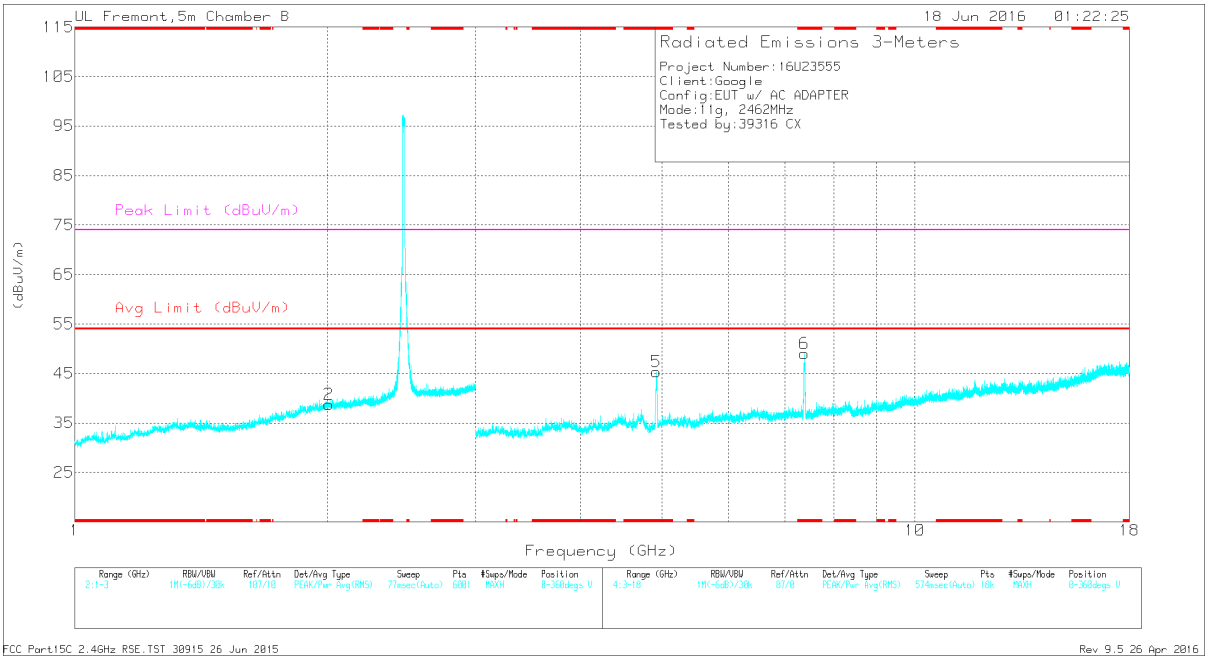
VERTICAL

CHANNEL 10 DATA

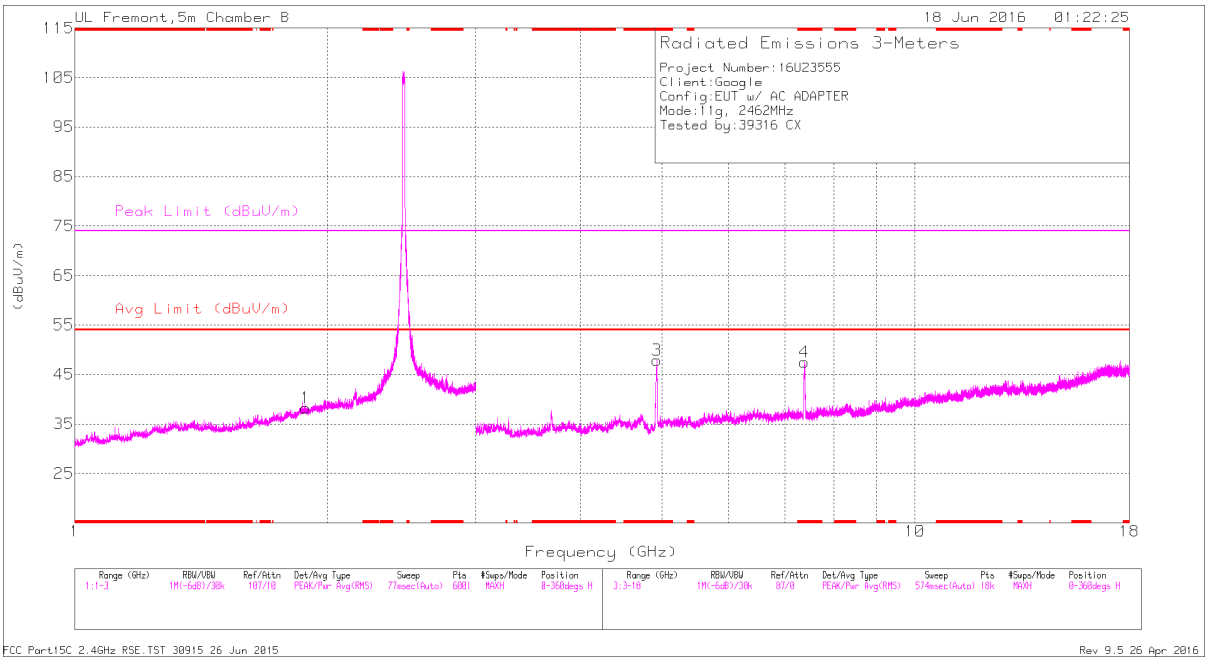
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.114	35.39	PK2	28	-23.9	39.49	-	-	74	-34.51	314	316	V
	* 1.114	24.23	MAv1	28	-23.9	28.33	54	-25.67	-	-	314	316	V
4	* 3.679	44.49	PK2	33.3	-32.9	44.89	-	-	74	-29.11	260	242	H
	* 3.678	36.18	MAv1	33.3	-32.9	36.58	54	-17.42	-	-	260	242	H
5	* 4.91	47.9	PK2	33.9	-32.9	48.9	-	-	74	-25.1	77	115	H
	* 4.914	36.25	MAv1	33.9	-32.9	37.25	54	-16.75	-	-	77	115	H
6	* 4.916	45.98	PK2	33.9	-32.9	46.98	-	-	74	-27.02	219	102	V
	* 4.915	35.15	MAv1	33.9	-32.8	36.25	54	-17.75	-	-	219	102	V
1	2.157	40.46	PK2	31.5	-22.3	49.66	-	-	-	-	5	112	H
3	3.276	38.43	Pk	32.6	-33	38.03	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZTONAL



VERTICAL

HIGH CHANNEL DATA

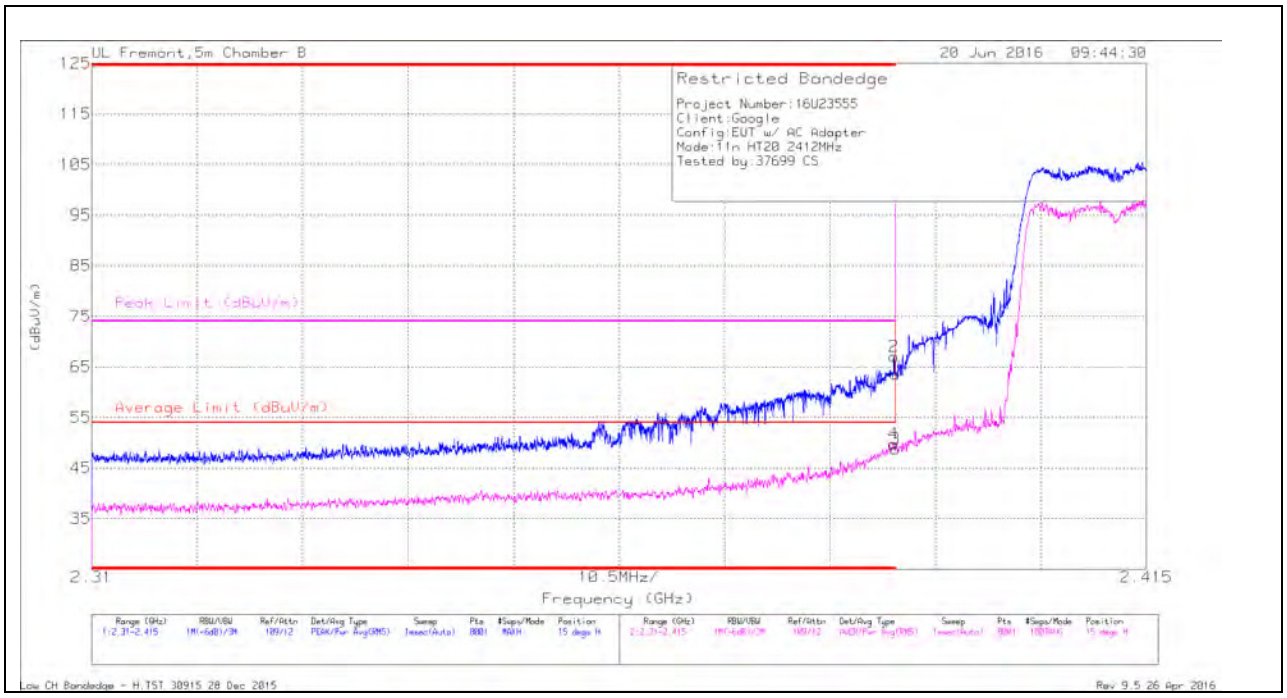
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.924	55.92	PK2	33.9	-32.9	56.92	-	-	74	-17.08	116	107	H
	* 4.924	43.66	MAv1	33.9	-32.9	44.66	54	-9.34	-	-	116	107	H
4	* 7.388	50.82	PK2	35.6	-29.5	56.92	-	-	74	-17.08	228	255	H
	* 7.389	38.55	MAv1	35.6	-29.5	44.65	54	-9.35	-	-	228	255	H
5	* 4.927	52.98	PK2	33.9	-32.9	53.98	-	-	74	-20.02	33	101	V
	* 4.924	40.76	MAv1	33.9	-32.9	41.76	54	-12.24	-	-	33	101	V
6	* 7.395	51.37	PK2	35.6	-29.5	57.47	-	-	74	-16.53	123	204	V
	* 7.389	38.67	MAv1	35.6	-29.5	44.77	54	-9.23	-	-	123	204	V
1	1.883	29.45	Pk	30.7	-21.9	38.25	-	-	-	-	0-360	101	H
2	2.006	29.3	Pk	31.5	-22.1	38.7	-	-	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

5.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL)

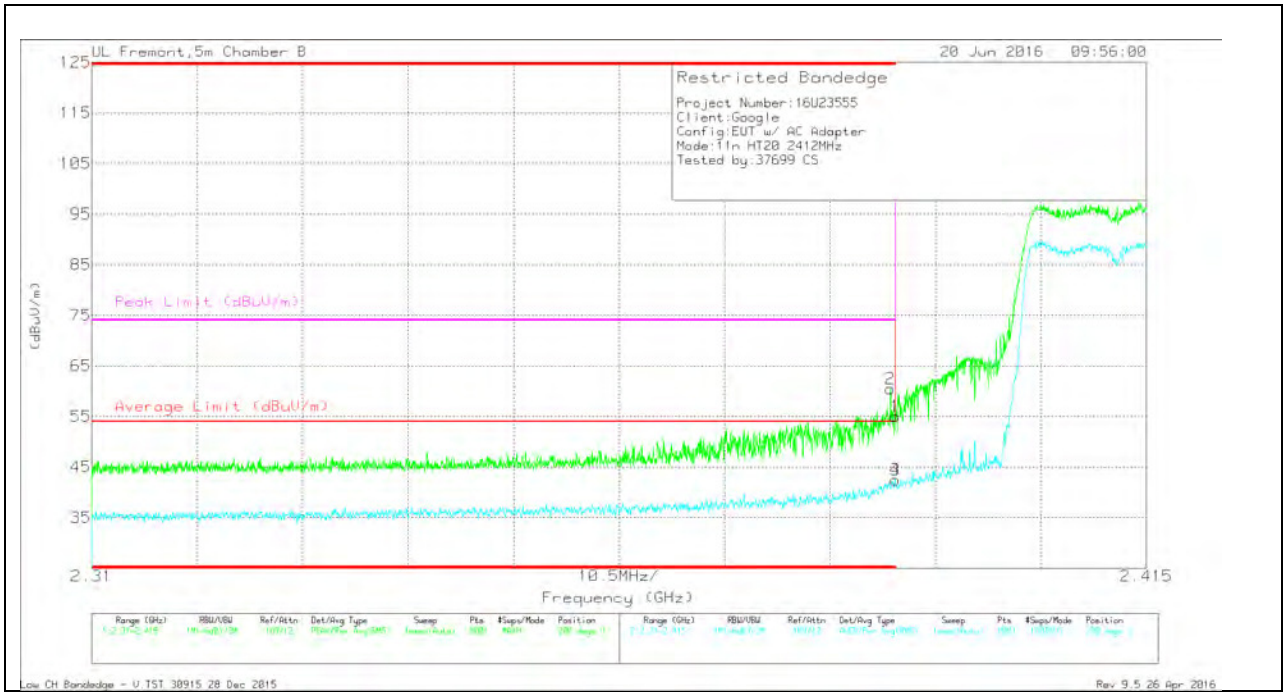
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	53.78	Pk	32.1	-22.3	63.58	-	-	74	-10.42	15	109	H
2	* 2.39	57.3	Pk	32.1	-22.3	67.1	-	-	74	-6.9	15	109	H
3	* 2.39	39	RMS	32.1	-22.3	48.8	54	-5.2	-	-	15	109	H
4	* 2.39	40.04	RMS	32.1	-22.3	49.84	54	-4.16	-	-	15	109	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

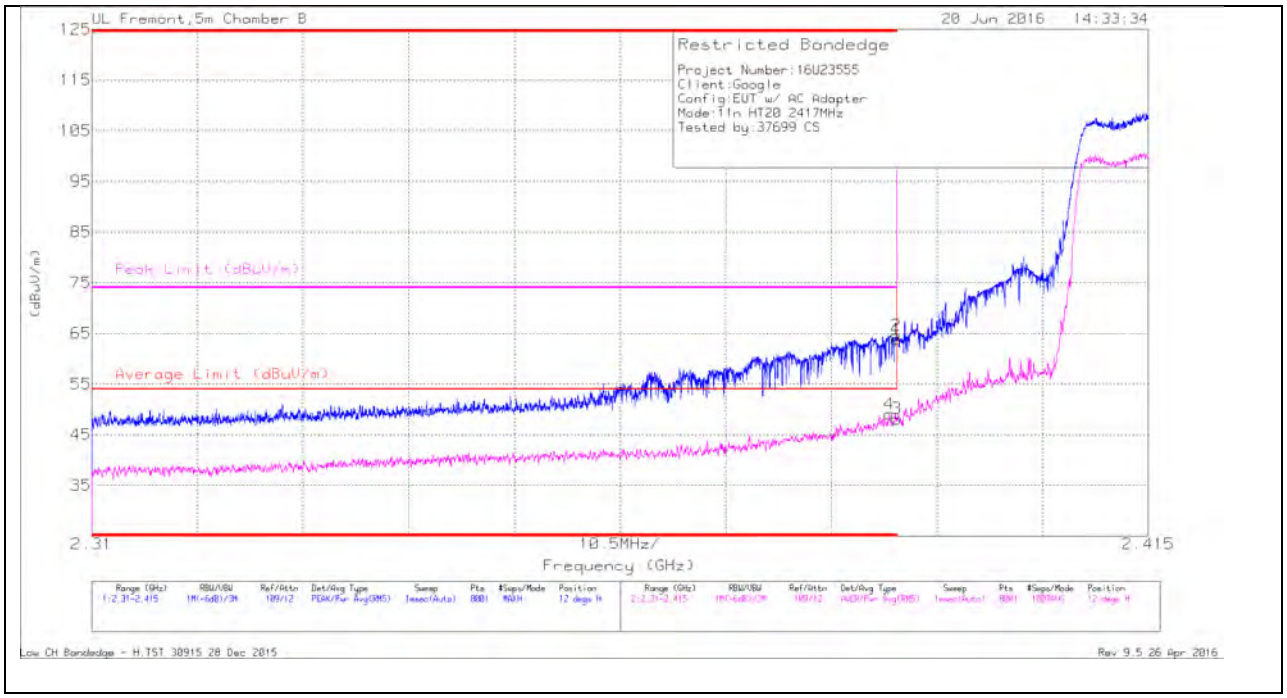


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.24	Pk	32.1	-22.3	55.04	-	-	74	-18.96	200	331	V
2	* 2.39	50.72	Pk	32.1	-22.3	60.52	-	-	74	-13.48	200	331	V
3	* 2.39	32.7	RMS	32.1	-22.3	42.5	54	-11.5	-	-	200	331	V
4	* 2.39	32.72	RMS	32.1	-22.3	42.52	54	-11.48	-	-	200	331	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 2)

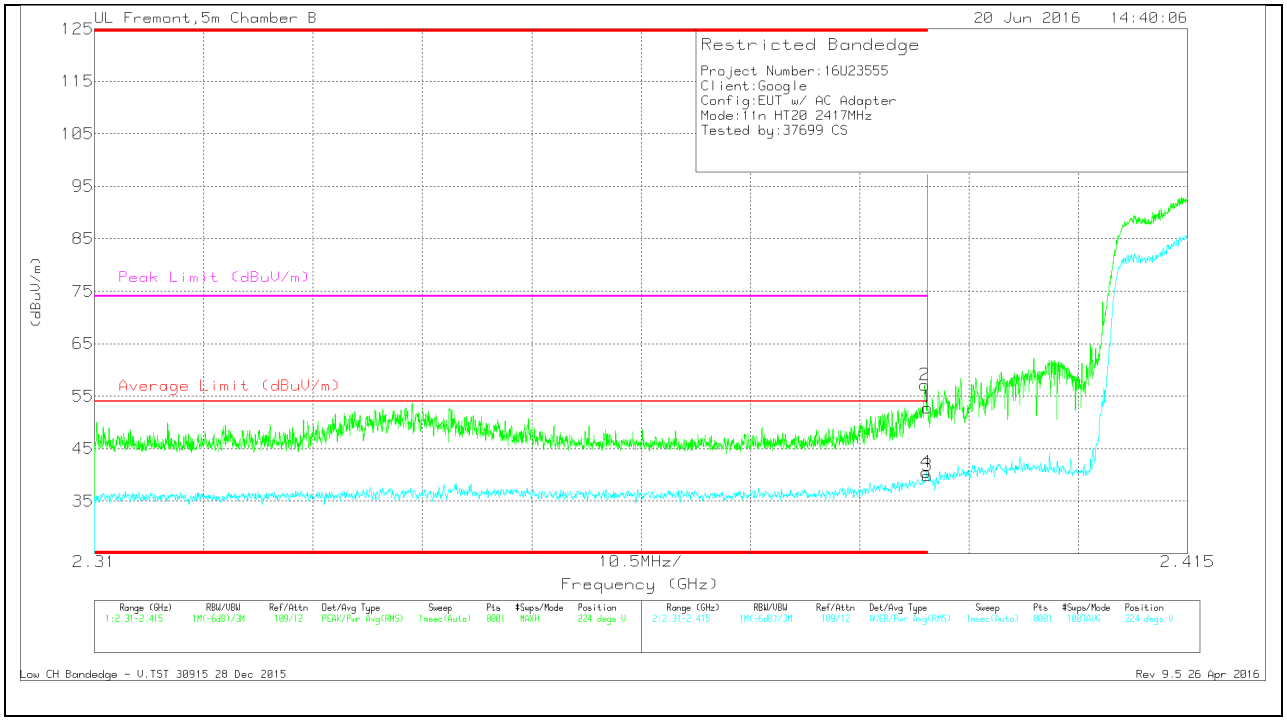
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.01	Pk	32.1	-22.3	63.81	-	-	74	-10.19	12	110	H
2	* 2.39	54.78	Pk	32.1	-22.3	64.58	-	-	74	-9.42	12	110	H
3	* 2.39	38.32	RMS	32.1	-22.3	48.12	54	-5.88	-	-	12	110	H
4	* 2.389	39.28	RMS	32.1	-22.3	49.08	54	-4.92	-	-	12	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

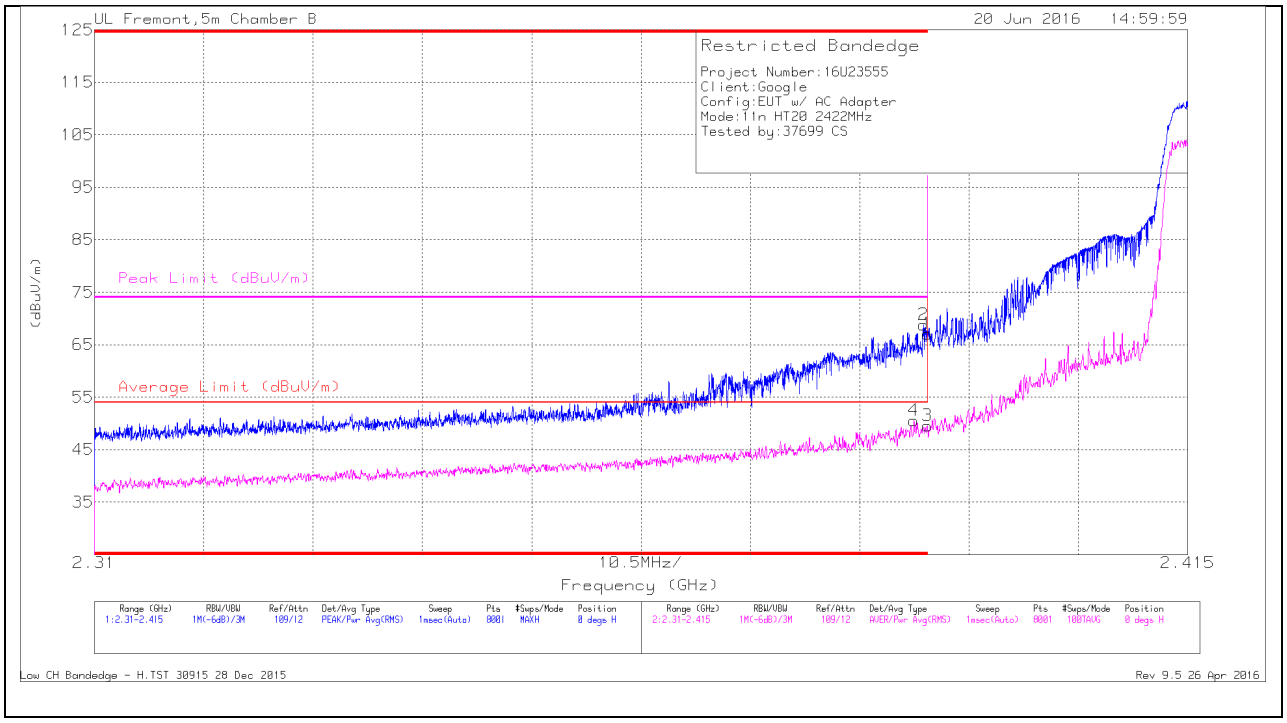


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.97	Pk	32.1	-22.3	52.77	-	-	74	-21.23	224	273	V
2	* 2.39	47.27	Pk	32.1	-22.3	57.07	-	-	74	-16.93	224	273	V
3	* 2.39	30.06	RMS	32.1	-22.3	39.86	54	-14.14	-	-	224	273	V
4	* 2.39	30.65	RMS	32.1	-22.3	40.45	54	-13.55	-	-	224	273	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 3)

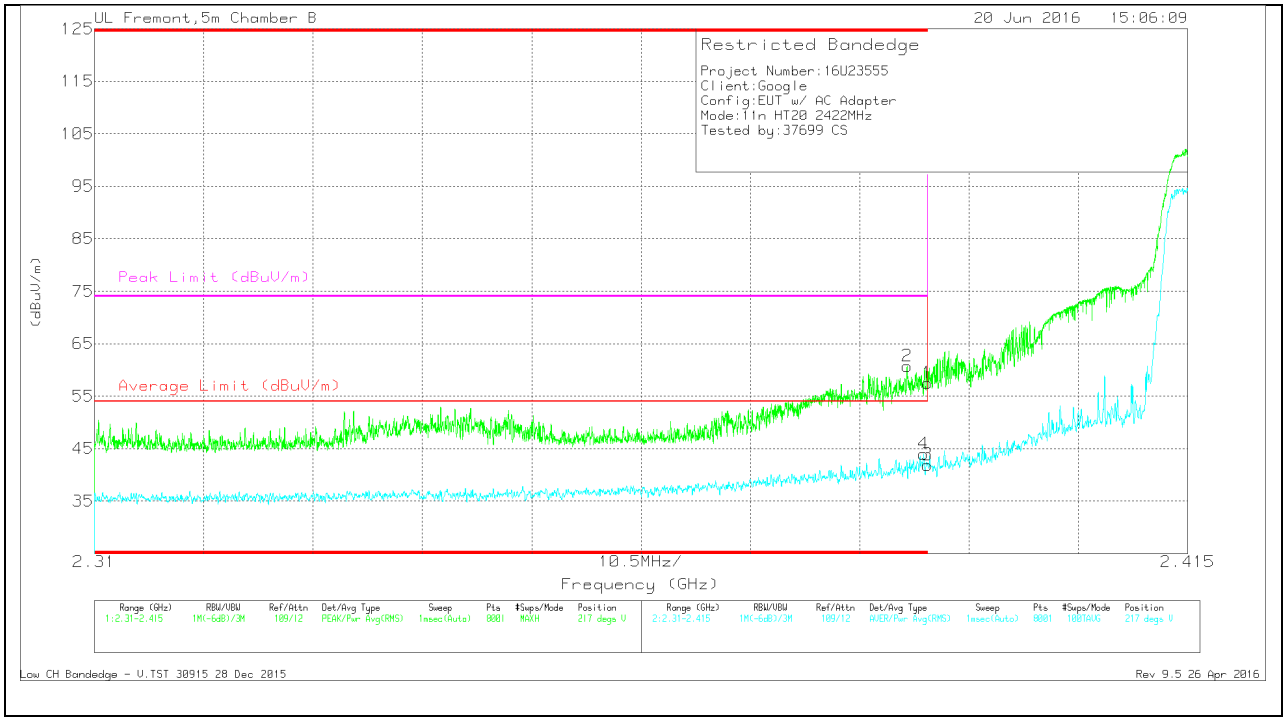
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	* 2.389	40.76	RMS	32.1	-22.3	50.56	54	-3.44	-	-	0	179	H
1	* 2.39	57.23	Pk	32.1	-22.3	67.03	-	-	74	-6.97	0	179	H
2	* 2.39	58.98	Pk	32.1	-22.3	68.78	-	-	74	-5.22	0	179	H
3	* 2.39	39.77	RMS	32.1	-22.3	49.57	54	-4.43	-	-	0	179	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

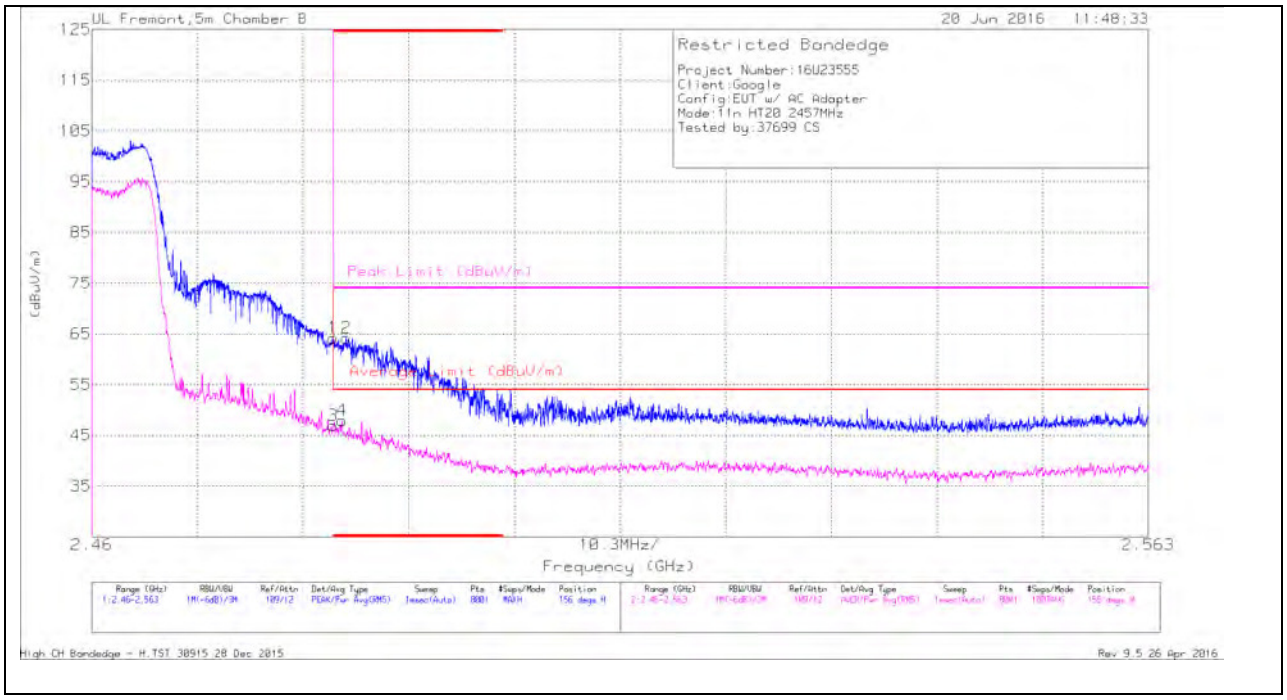


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.388	51.04	Pk	32.1	-22.4	60.74	-	-	74	-13.26	217	323	V
1	* 2.39	47.67	Pk	32.1	-22.3	57.47	-	-	74	-16.53	217	323	V
3	* 2.39	32.11	RMS	32.1	-22.3	41.91	54	-12.09	-	-	217	323	V
4	* 2.39	34.15	RMS	32.1	-22.3	43.95	54	-10.05	-	-	217	323	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 10)

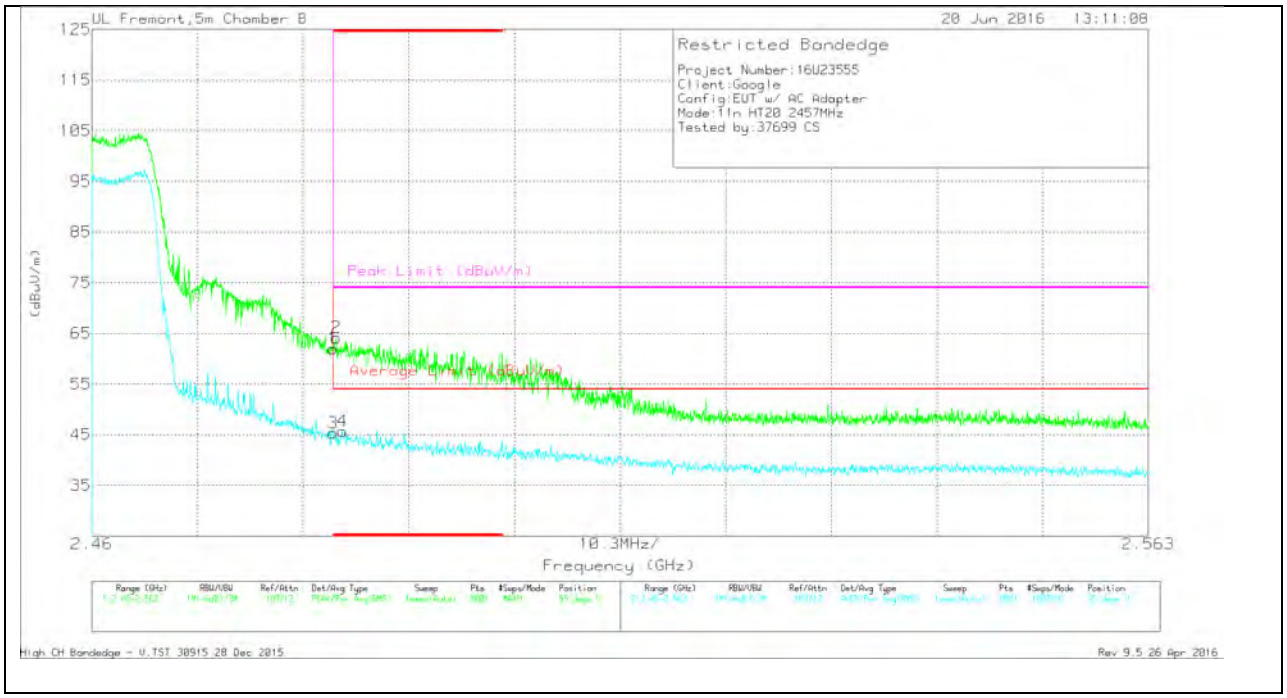
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	54.26	Pk	32.3	-22.3	64.26	-	-	74	-9.74	156	297	H
2	* 2.485	54.07	Pk	32.3	-22.2	64.17	-	-	74	-9.83	156	297	H
3	* 2.484	36.99	RMS	32.3	-22.3	46.99	54	-7.01	-	-	156	297	H
4	* 2.484	37.97	RMS	32.3	-22.3	47.97	54	-6.03	-	-	156	297	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

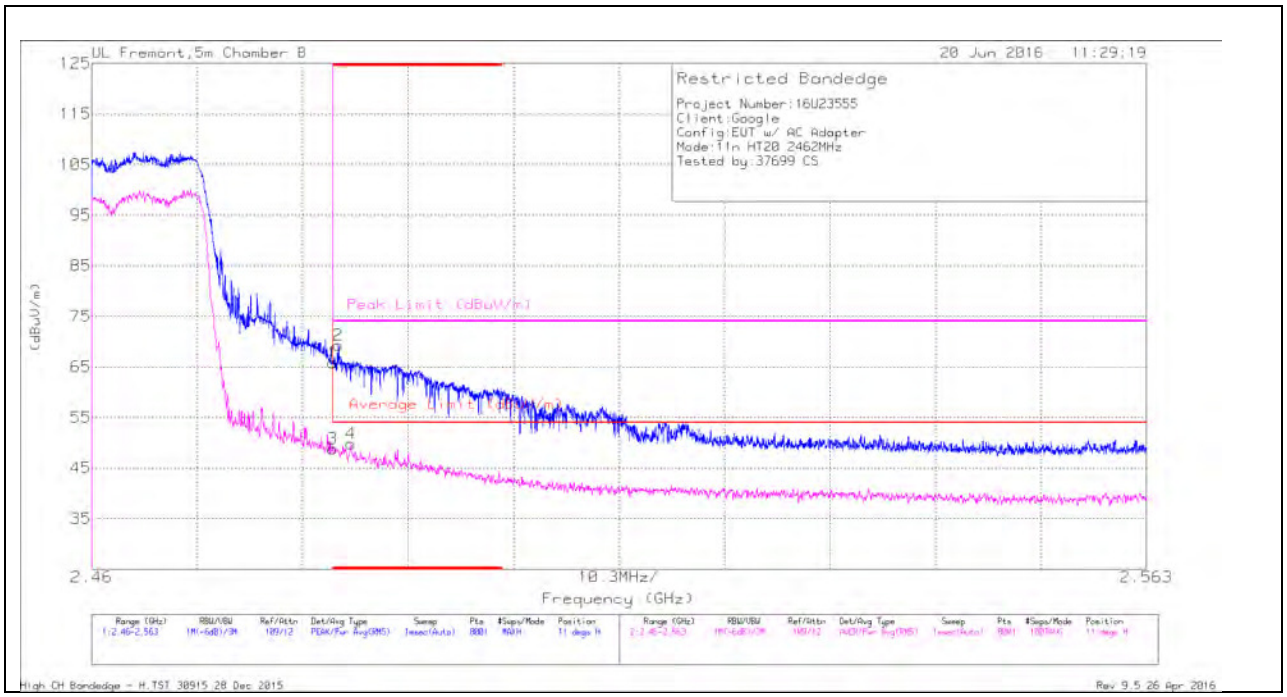


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52	Pk	32.3	-22.3	62	-	-	74	-12	55	338	V
2	* 2.484	54.14	Pk	32.3	-22.3	64.14	-	-	74	-9.86	55	338	V
3	* 2.484	35.36	RMS	32.3	-22.3	45.36	54	-8.64	-	-	55	338	V
4	* 2.484	35.75	RMS	32.3	-22.3	45.75	54	-8.25	-	-	55	338	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

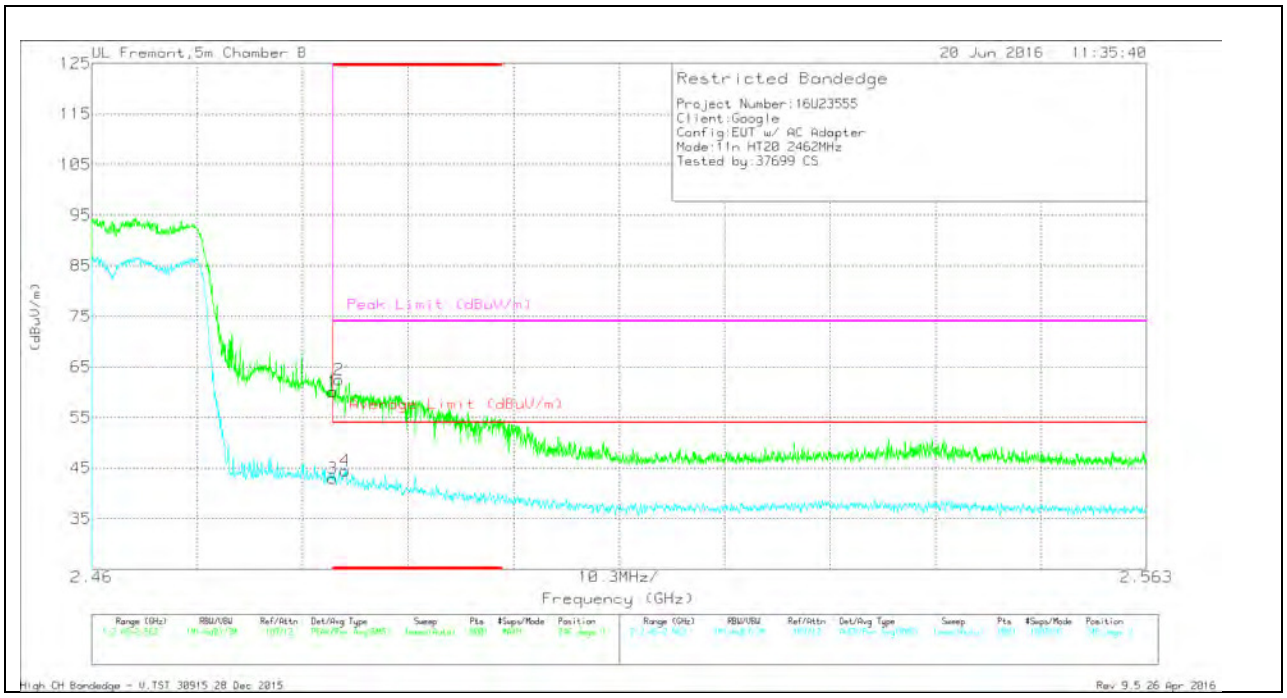
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	55.85	Pk	32.3	-22.3	65.85	-	-	74	-8.15	11	167	H
2	* 2.484	59.28	Pk	32.3	-22.3	69.28	-	-	74	-4.72	11	167	H
3	* 2.484	38.8	RMS	32.3	-22.3	48.8	54	-5.2	-	-	11	167	H
4	* 2.485	39.7	RMS	32.3	-22.2	49.8	54	-4.2	-	-	11	167	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection
High CH Bandedge - H.TST 30915 28 Dec 2015
Rev 9.5 26 Apr 2016

VERTICAL RESULTS

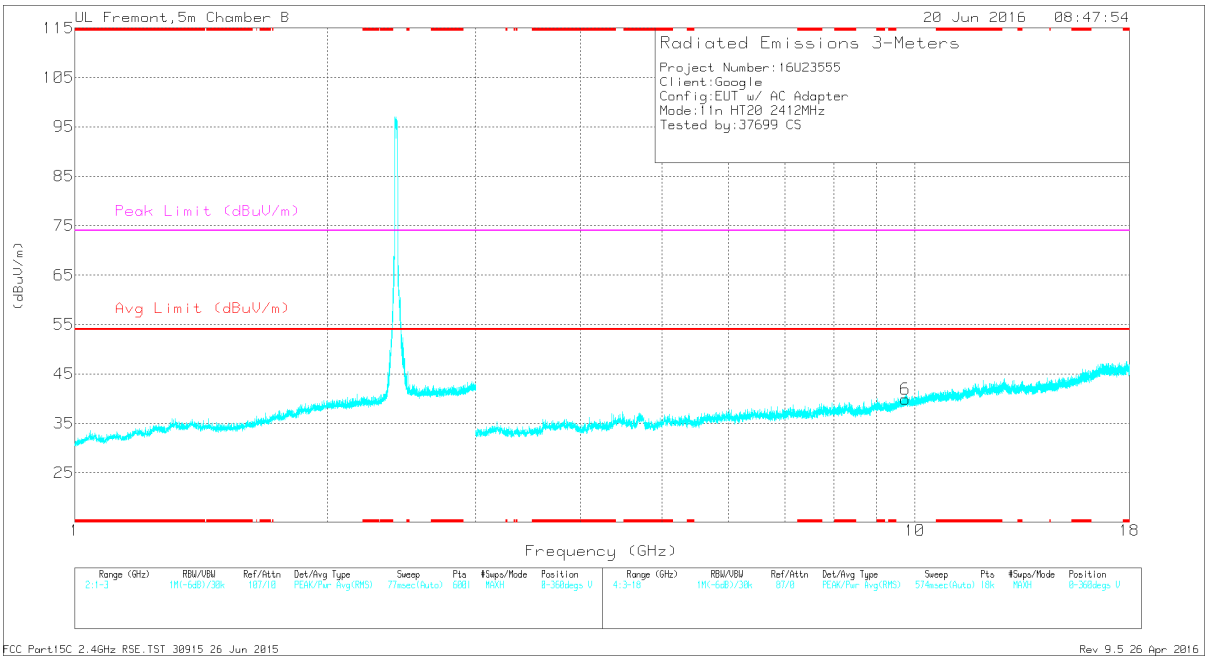


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.09	Pk	32.3	-22.3	60.09	-	-	74	-13.91	246	373	V
2	* 2.484	52.45	Pk	32.3	-22.3	62.45	-	-	74	-11.55	246	373	V
3	* 2.484	32.93	RMS	32.3	-22.3	42.93	54	-11.07	-	-	246	373	V
4	* 2.485	34.31	RMS	32.3	-22.2	44.41	54	-9.59	-	-	246	373	V

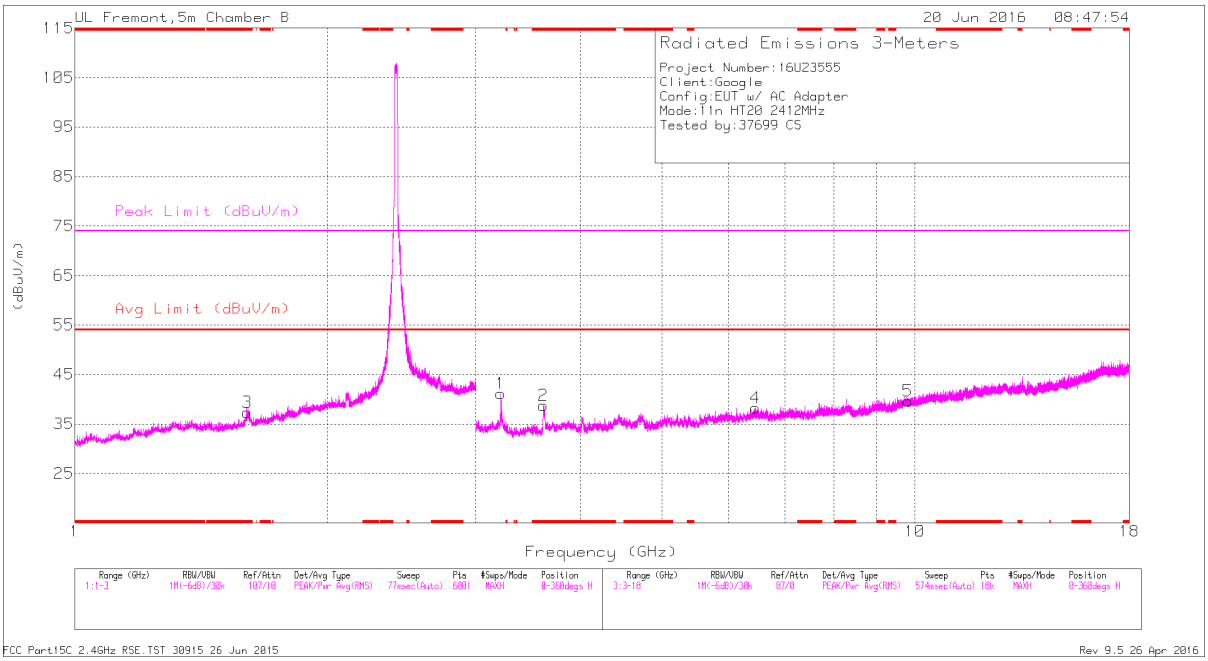
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection
High CH Bandedge - V.TST 30915 28 Dec 2015
Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZTONAL



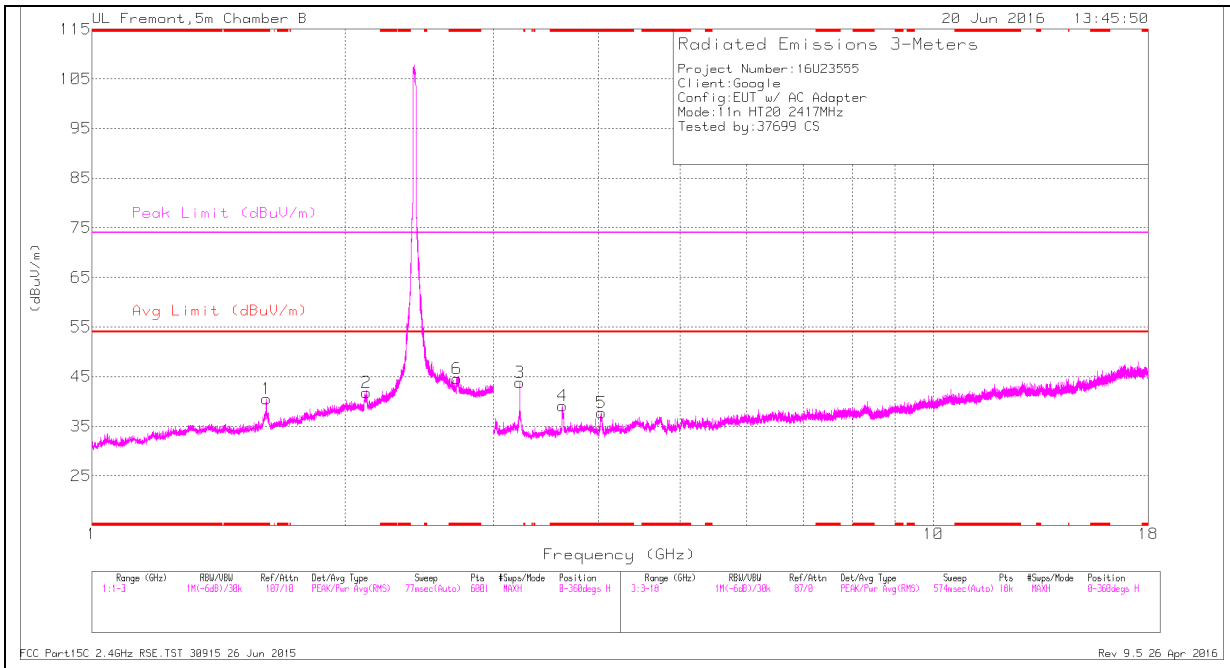
VERTICAL

LOW CHANNEL DATA

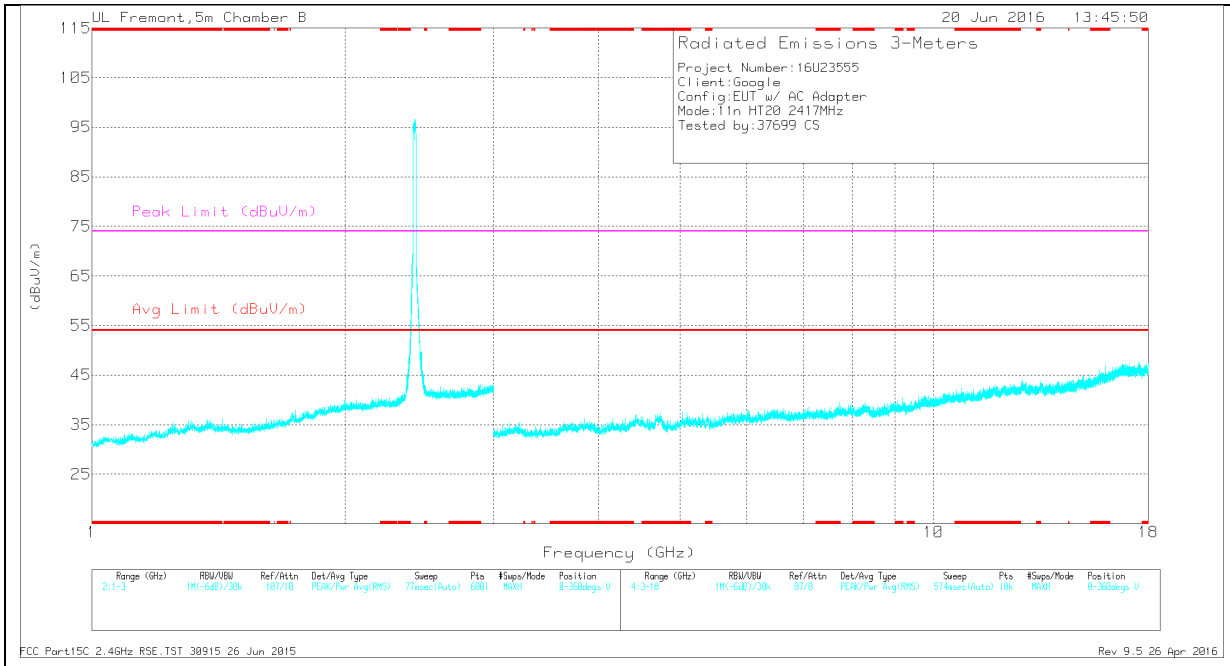
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 1.608	40.79	PK2	28.2	-22.4	46.59	-	-	74	-27.41	4	205	H
	* 1.608	27.61	MAv1	28.2	-22.4	33.41	54	-20.59	-	-	4	205	H
2	* 3.615	45.09	PK2	33.1	-33.2	44.99	-	-	74	-29.01	284	113	H
	* 3.611	36.64	MAv1	33.1	-33.2	36.54	54	-17.46	-	-	284	113	H
1	3.216	40.78	Pk	32.9	-32.5	41.18	-	-	-	-	0-360	101	H
4	6.456	33.23	Pk	35.6	-30.6	38.23	-	-	-	-	0-360	101	H
6	9.738	29.48	Pk	36.9	-26.5	39.88	-	-	-	-	0-360	199	V
5	9.805	29.08	Pk	37	-26.5	39.58	-	-	-	-	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 2 RESULTS



HORIZTONAL



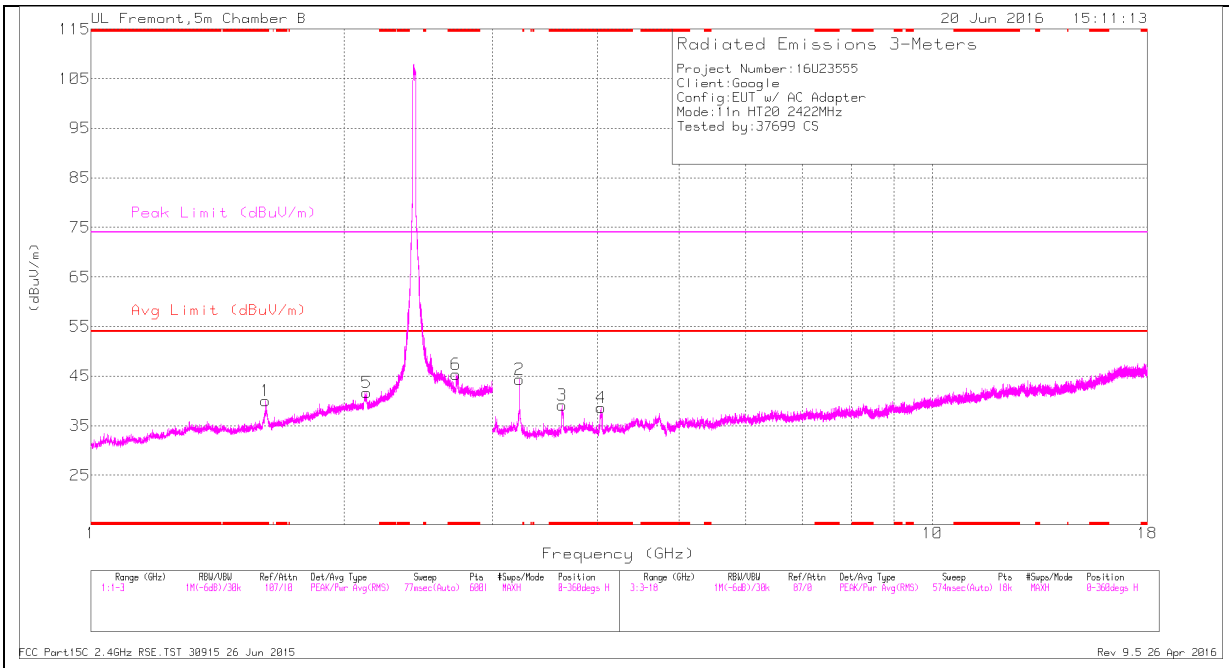
VERTICAL

CHANNEL 2 DATA

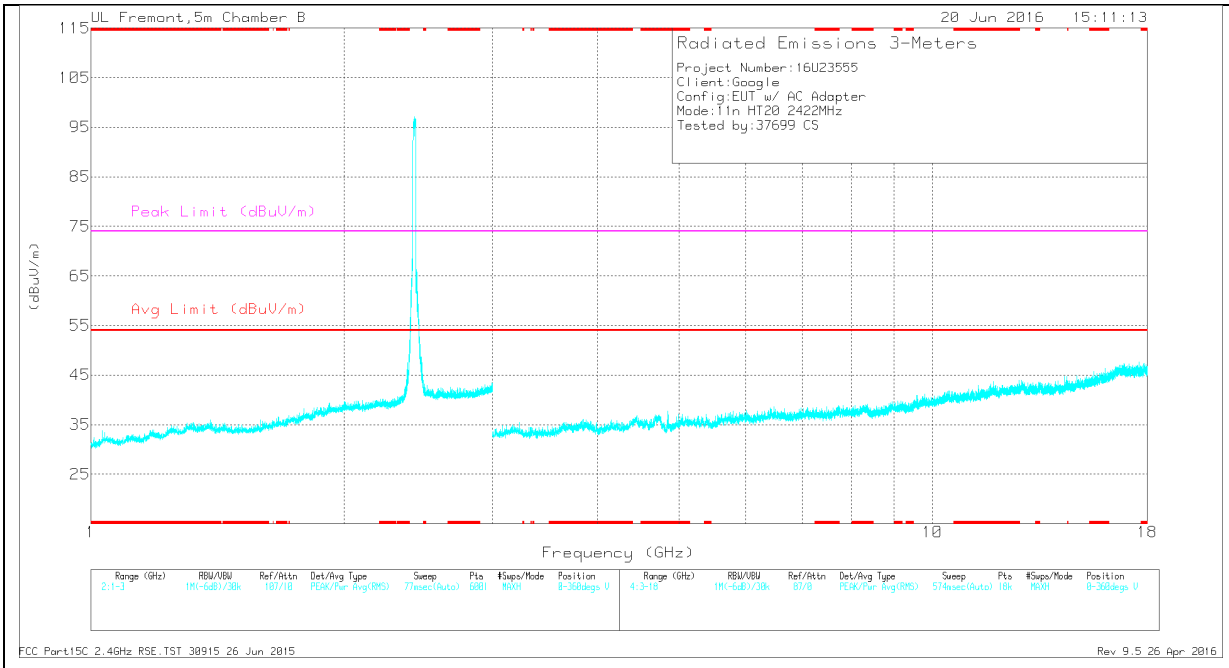
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.611	40.14	PK2	28.2	-22.4	45.94	-	-	74	-28.06	224	229	H
	* 1.611	28.52	MAv1	28.2	-22.4	34.32	54	-19.68	-	-	224	229	H
6	* 2.719	40.63	PK2	32.3	-22	50.93	-	-	74	-23.07	5	192	H
	* 2.717	29.48	MAv1	32.3	-22	39.78	54	-14.22	-	-	5	192	H
4	* 3.622	46.05	PK2	33.1	-33.1	46.05	-	-	74	-27.95	282	103	H
	* 3.618	37.28	MAv1	33.1	-33.2	37.18	54	-16.82	-	-	282	103	H
5	* 4.022	46.11	PK2	33.4	-33.1	46.41	-	-	74	-27.59	269	102	H
	* 4.025	35.19	MAv1	33.4	-33.1	35.49	54	-18.51	-	-	269	102	H
2	2.118	33.05	Pk	31.3	-22.5	41.85	-	-	-	-	0-360	101	H
3	3.222	43.63	Pk	32.9	-32.7	43.83	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 3 RESULTS



HORIZTONAL



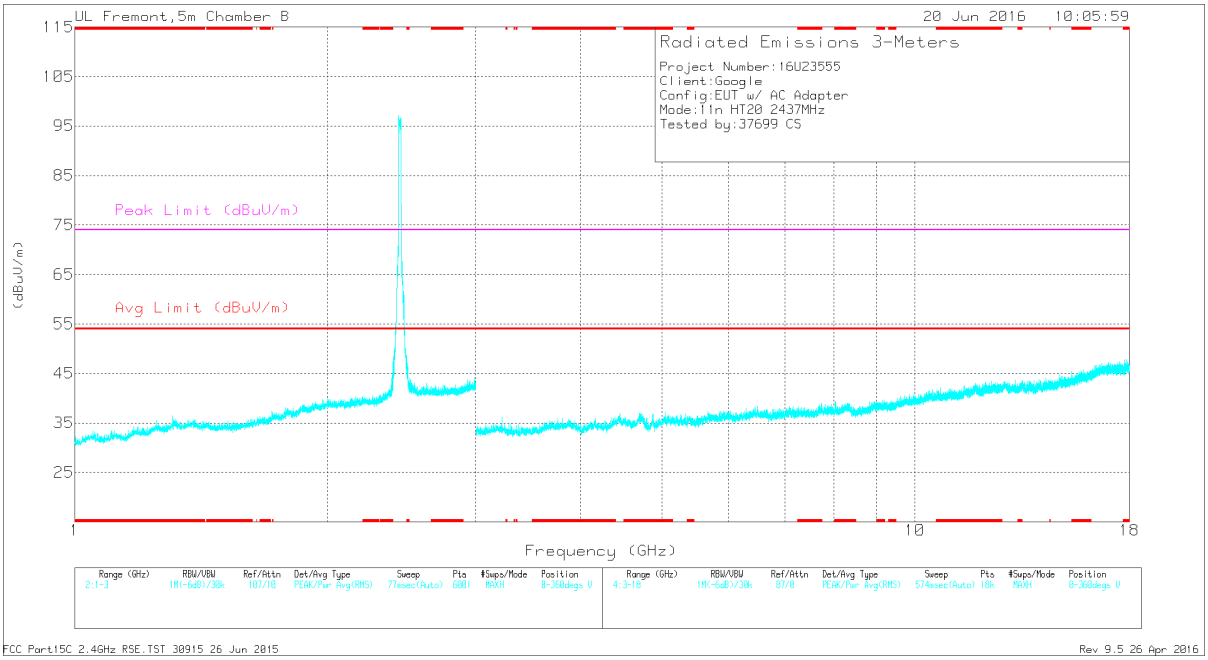
VERTICAL

CHANNEL 3 DATA

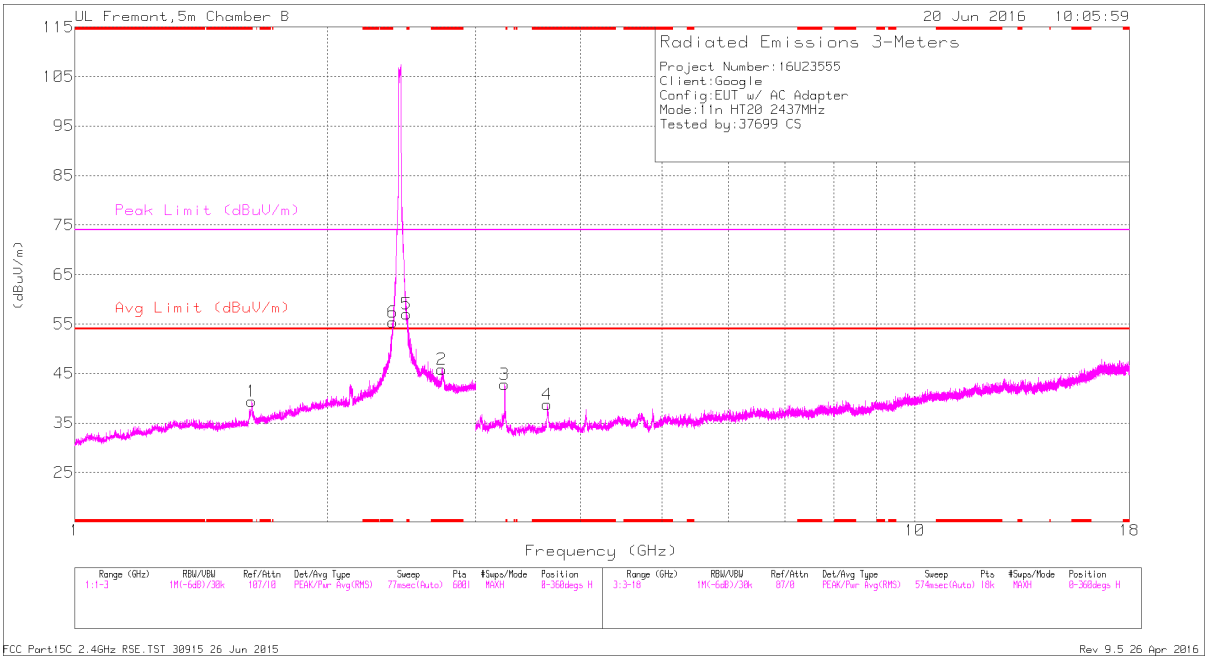
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.615	42.2	PK2	28.3	-22.4	48.1	-	-	74	-25.9	6	123	H
	* 1.615	31.01	MAv1	28.3	-22.4	36.91	54	-17.09	-	-	6	123	H
6	* 2.722	41.38	PK2	32.3	-21.9	51.78	-	-	74	-22.22	11	155	H
	* 2.723	30.33	MAv1	32.3	-22	40.63	54	-13.37	-	-	11	155	H
3	* 3.625	45.76	PK2	33.1	-33.1	45.76	-	-	74	-28.24	280	103	H
	* 3.625	37.24	MAv1	33.1	-33.1	37.24	54	-16.76	-	-	280	103	H
4	* 4.027	43.71	PK2	33.4	-33.1	44.01	-	-	74	-29.99	244	144	H
	* 4.035	33.93	MAv1	33.5	-33.1	34.33	54	-19.67	-	-	244	144	H
5	2.126	32.72	Pk	31.3	-22.4	41.62	-	-	-	-	0-360	101	H
2	3.229	44.23	Pk	32.9	-32.8	44.33	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZTONAL



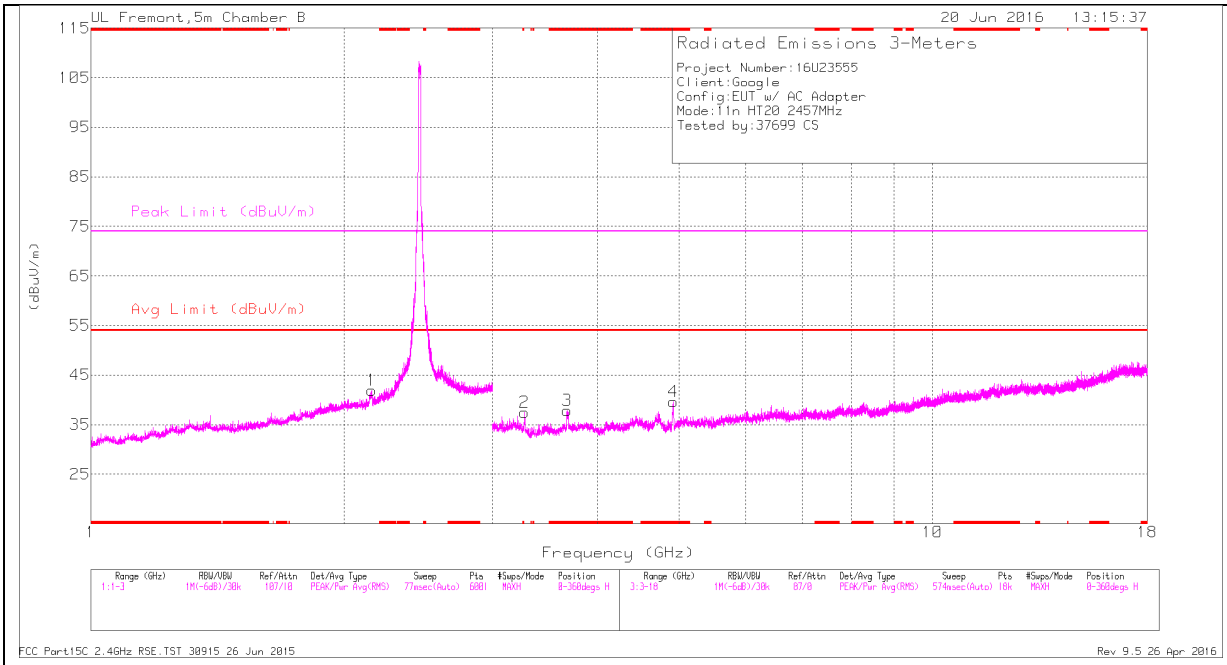
VERTICAL

MID CHANNEL DATA

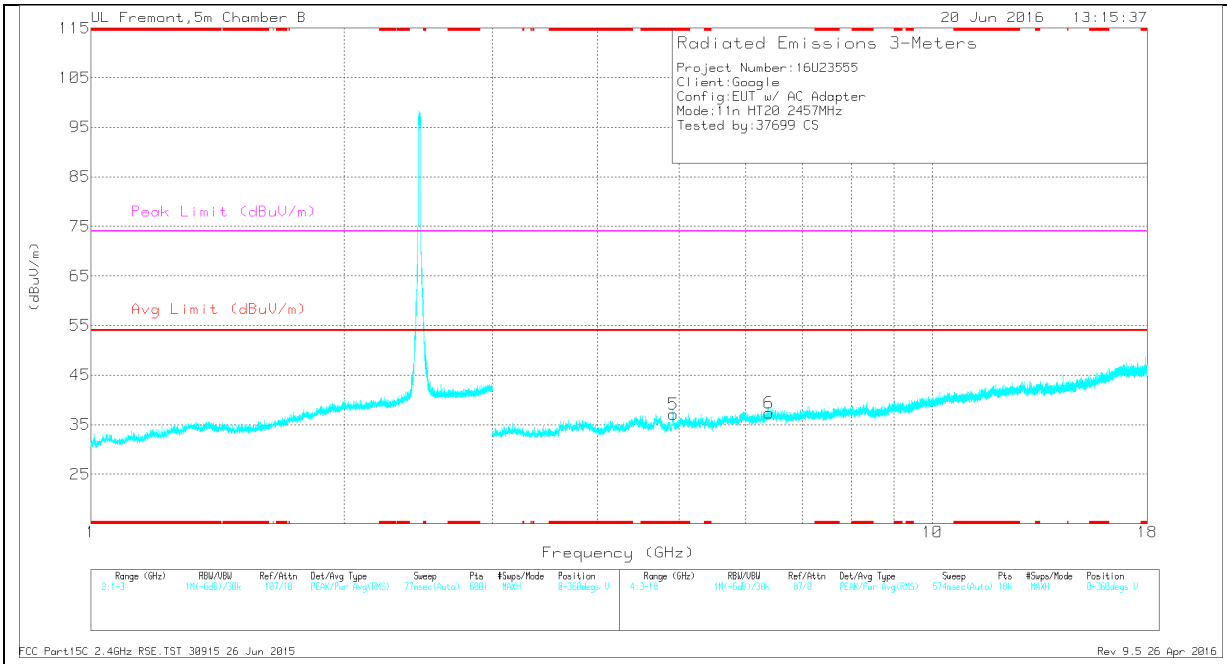
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 2.487	58.35	PK2	32.3	-22.3	68.35	-	-	74	-5.65	9	116	H
	* 2.484	39.98	MAv1	32.3	-22.3	49.98	54	-4.02	-	-	9	116	H
6	* 2.39	55.51	PK2	32.1	-22.3	65.31	-	-	74	-8.69	3	230	H
	* 2.389	38.33	MAv1	32.1	-22.3	48.13	54	-5.87	-	-	3	230	H
1	* 1.117	35.88	PK2	28	-23.9	39.98	-	-	74	-34.02	227	164	H
	* 1.032	24.4	MAv1	27.8	-24.5	27.7	54	-26.3	-	-	227	164	H
2	* 2.734	42.5	PK2	32.3	-22	52.8	-	-	74	-21.2	18	134	H
	* 2.738	32.01	MAv1	32.3	-21.9	42.41	54	-11.59	-	-	18	134	H
4	* 3.656	43.86	PK2	33.2	-32.7	44.36	-	-	74	-29.64	263	163	H
	* 3.648	35.61	MAv1	33.2	-32.7	36.11	54	-17.89	-	-	263	163	H
3	3.249	42.96	Pk	32.8	-32.9	42.86	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 10 RESULTS



HORIZTONAL



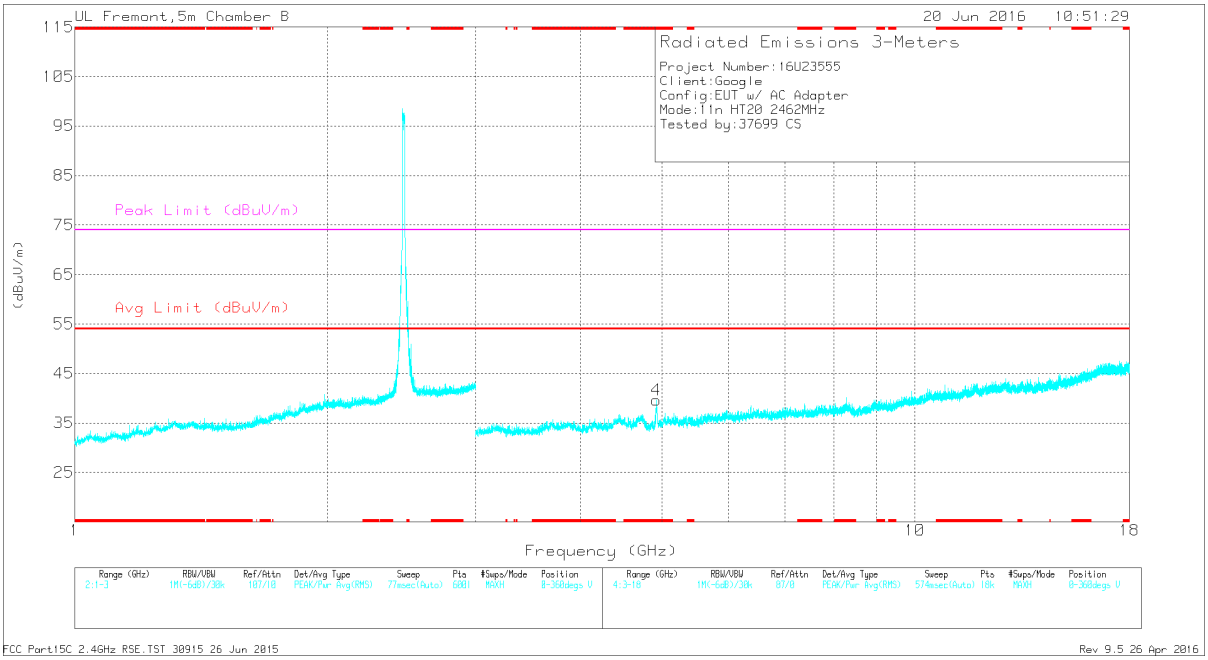
VERTICAL

CHANNEL 10 DATA

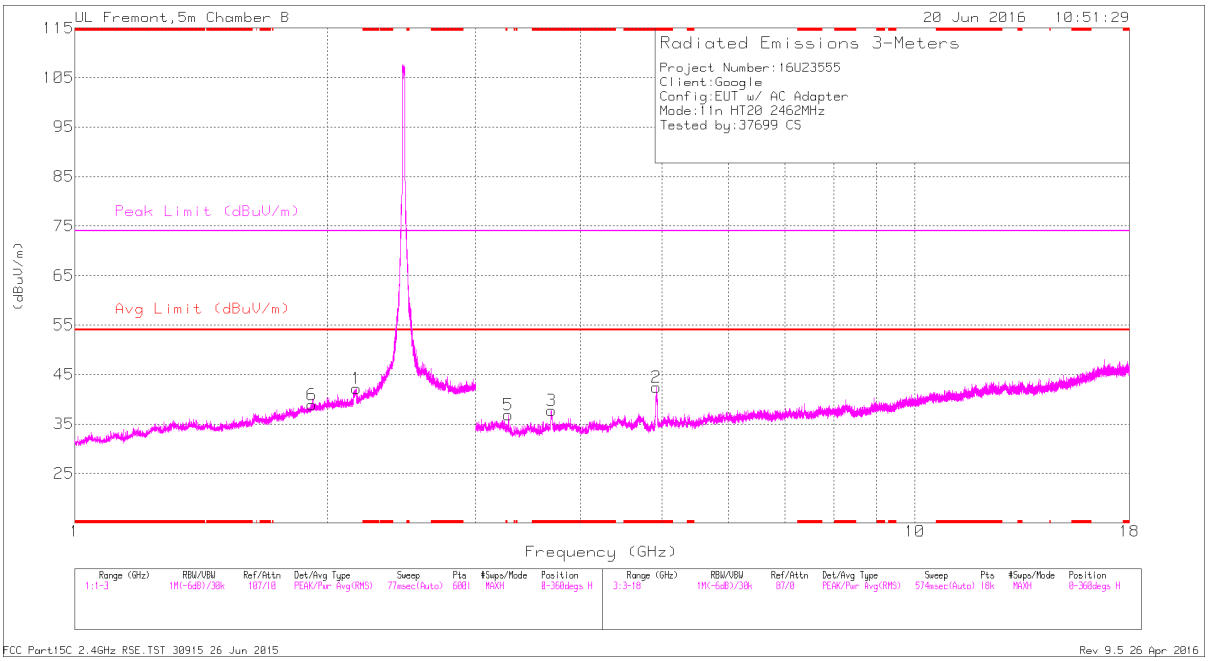
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.678	45.29	PK2	33.3	-32.9	45.69	-	-	74	-28.31	272	122	H
	* 3.678	36.2	MAv1	33.3	-32.9	36.6	54	-17.4	-	-	272	122	H
4	* 4.918	49.14	PK2	33.9	-32.9	50.14	-	-	74	-23.86	110	145	H
	* 4.917	37.18	MAv1	33.9	-32.9	38.18	54	-15.82	-	-	110	145	H
5	* 4.914	45.77	PK2	33.9	-32.9	46.77	-	-	74	-27.23	258	130	V
	* 4.919	33.82	MAv1	33.9	-32.9	34.82	54	-19.18	-	-	258	130	V
1	2.156	32.69	Pk	31.5	-22.3	41.89	-	-	-	-	0-360	101	H
2	3.276	37.93	Pk	32.6	-33	37.53	-	-	-	-	0-360	101	H
6	6.394	33.33	Pk	35.6	-31.6	37.33	-	-	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZTONAL



VERTICAL

HIGH CHANNEL DATA

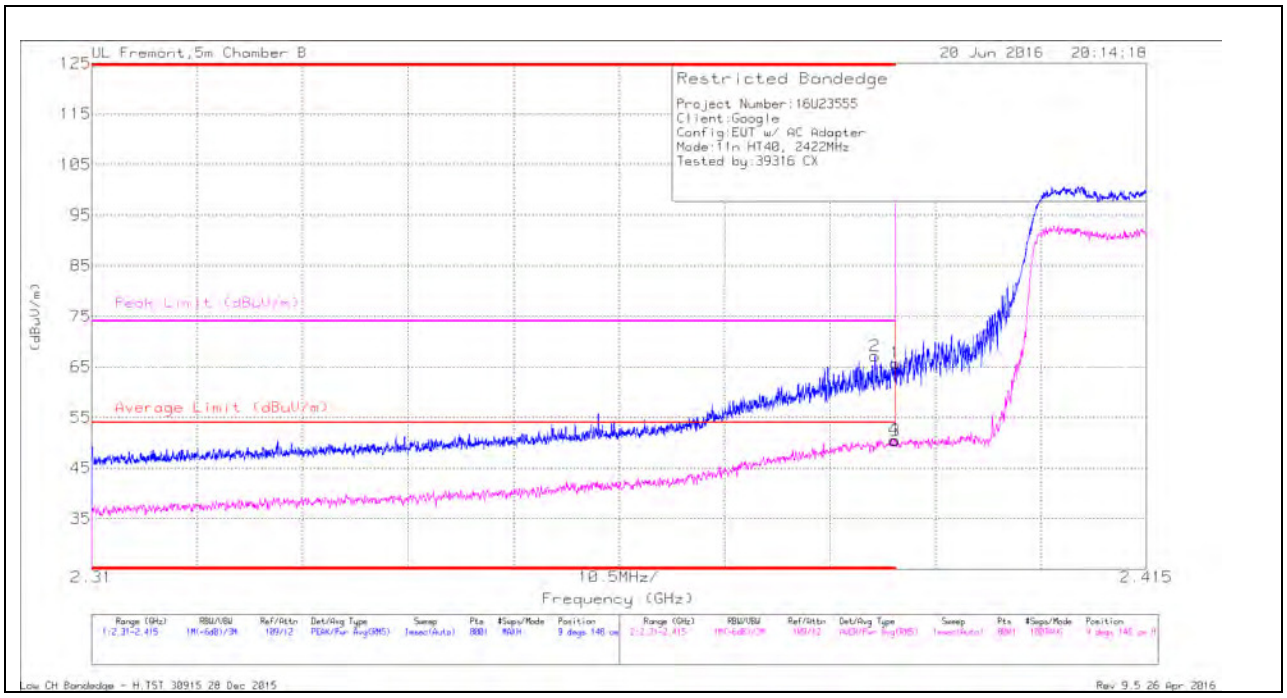
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.931	49.66	PK2	33.9	-32.9	50.66	-	-	74	-23.34	109	137	H
	* 4.925	38.06	MAv1	33.9	-32.9	39.06	54	-14.94	-	-	109	137	H
3	* 3.688	45.12	PK2	33.3	-32.9	45.52	-	-	74	-28.48	261	116	H
	* 3.686	36.3	MAv1	33.3	-32.9	36.7	54	-17.3	-	-	261	116	H
4	* 4.925	46.19	PK2	33.9	-32.9	47.19	-	-	74	-26.81	101	101	V
	* 4.923	34.67	MAv1	33.9	-32.9	35.67	54	-18.33	-	-	101	101	V
6	1.914	30.05	Pk	30.9	-22.1	38.85	-	-	-	-	0-360	199	H
1	2.162	32.97	Pk	31.5	-22.3	42.17	-	-	-	-	0-360	101	H
5	3.282	37.23	Pk	32.6	-33	36.83	-	-	-	-	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

5.2.4. TX ABOVE 1 GHz 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL)

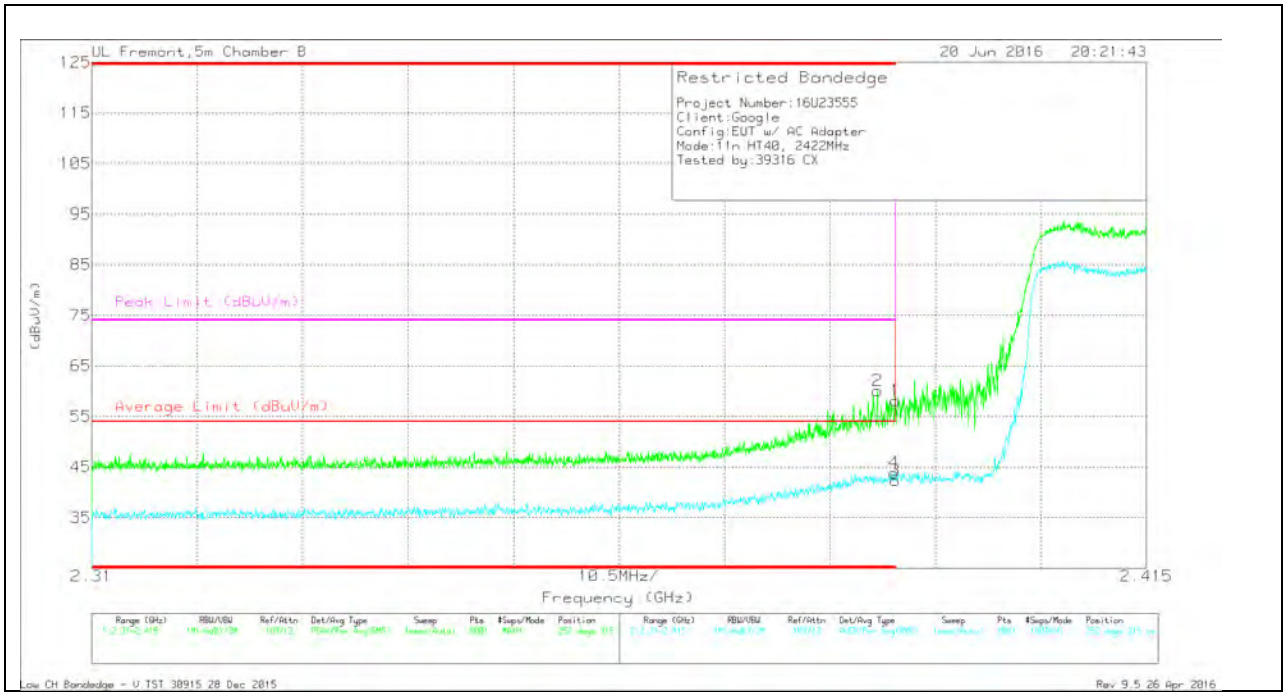
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	55.95	Pk	32.1	-22.3	0	65.75	-	-	74	-8.25	9	148	H
2	* 2.388	57.43	Pk	32.1	-22.4	0	67.13	-	-	74	-6.87	9	148	H
3	* 2.39	40.48	RMS	32.1	-22.3	.14	50.42	54	-3.58	-	-	9	148	H
4	* 2.39	40.65	RMS	32.1	-22.3	.14	50.59	54	-3.41	-	-	9	148	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

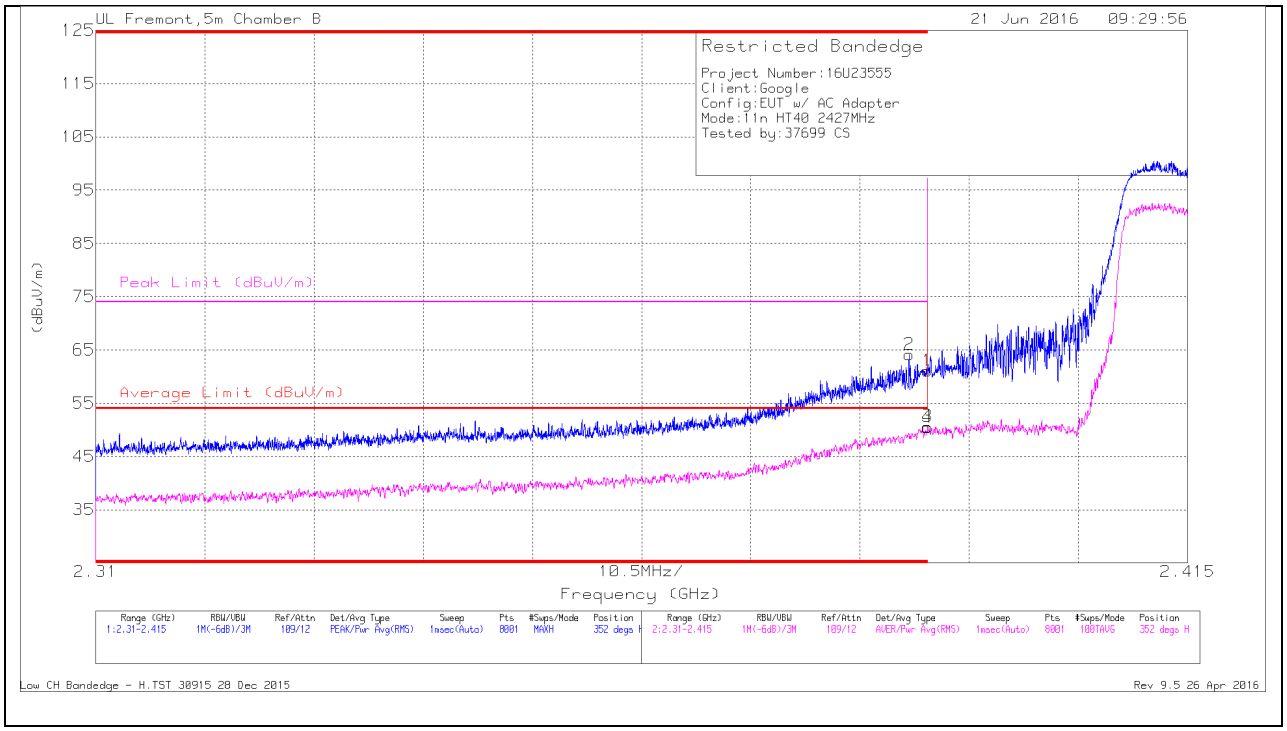


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.36	Pk	32.1	-22.3	0	58.16	-	-	74	-15.84	252	315	V
2	* 2.388	50.44	Pk	32.1	-22.4	0	60.14	-	-	74	-13.86	252	315	V
3	* 2.39	32.45	RMS	32.1	-22.3	.14	42.39	54	-11.61	-	-	252	315	V
4	* 2.39	33.94	RMS	32.1	-22.3	.14	43.88	54	-10.12	-	-	252	315	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 4)

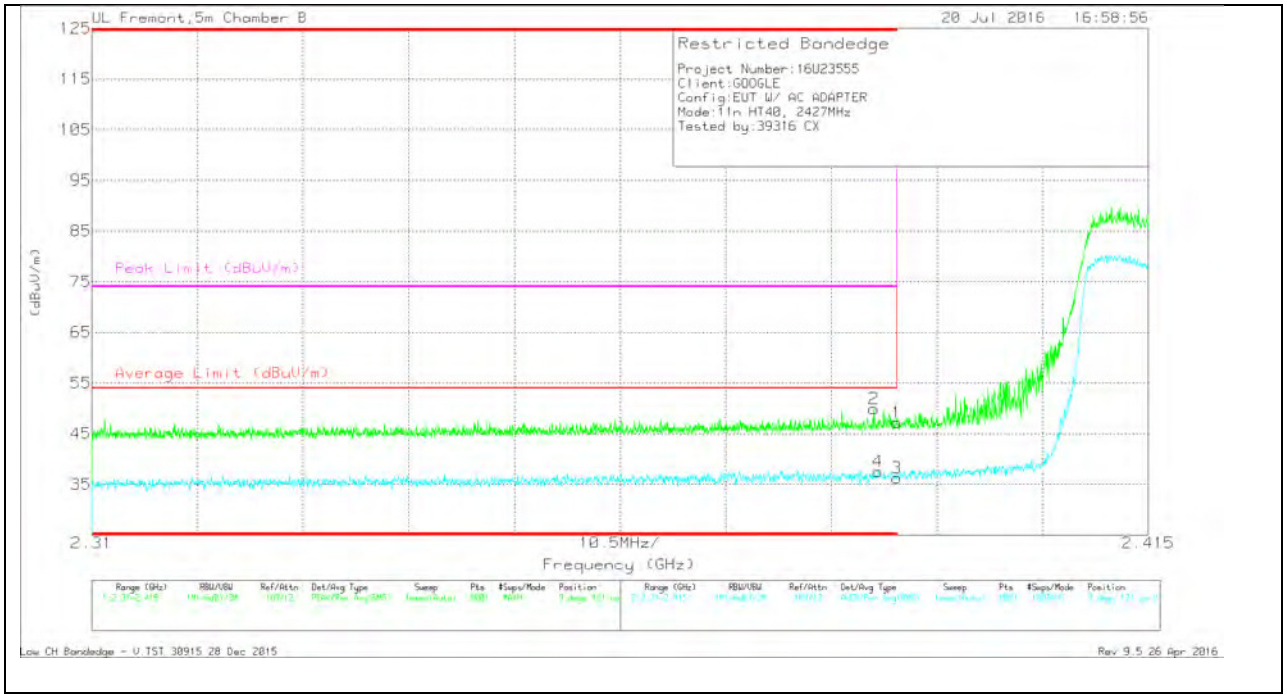
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	* 2.388	54.44	Pk	32.1	-22.4	0	64.14	-	-	74	-9.86	352	136	H
1	* 2.39	51.25	Pk	32.1	-22.3	0	61.05	-	-	74	-12.95	352	136	H
3	* 2.39	40.79	RMS	32.1	-22.3	.14	50.73	54	-3.27	-	-	352	136	H
4	* 2.39	40.67	RMS	32.1	-22.3	.14	50.61	54	-3.39	-	-	352	136	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

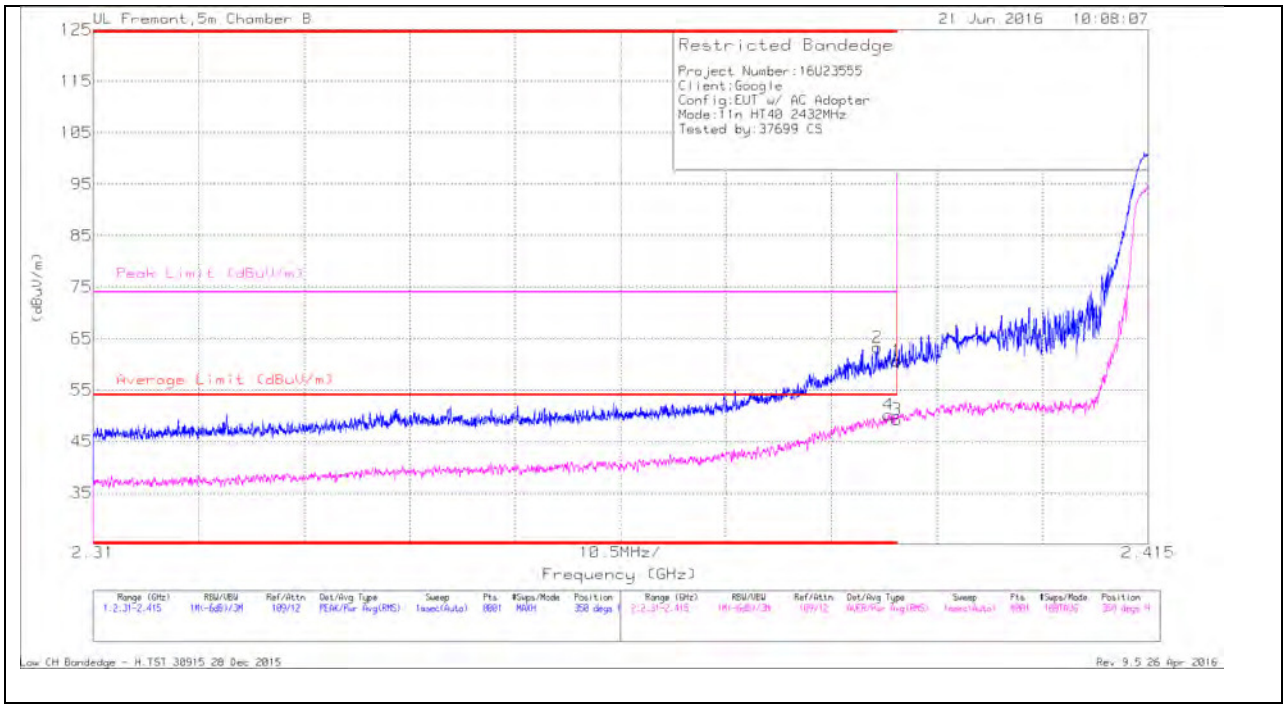


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.34	Pk	32.1	-22.3	0	47.14	-	-	74	-26.86	9	121	V
2	* 2.388	40.22	Pk	32.1	-22.4	0	49.92	-	-	74	-24.08	9	121	V
3	* 2.39	26.41	RMS	32.1	-22.3	.14	36.35	54	-17.65	-	-	9	121	V
4	* 2.388	27.78	RMS	32.1	-22.4	.14	37.62	54	-16.38	-	-	9	121	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 5)

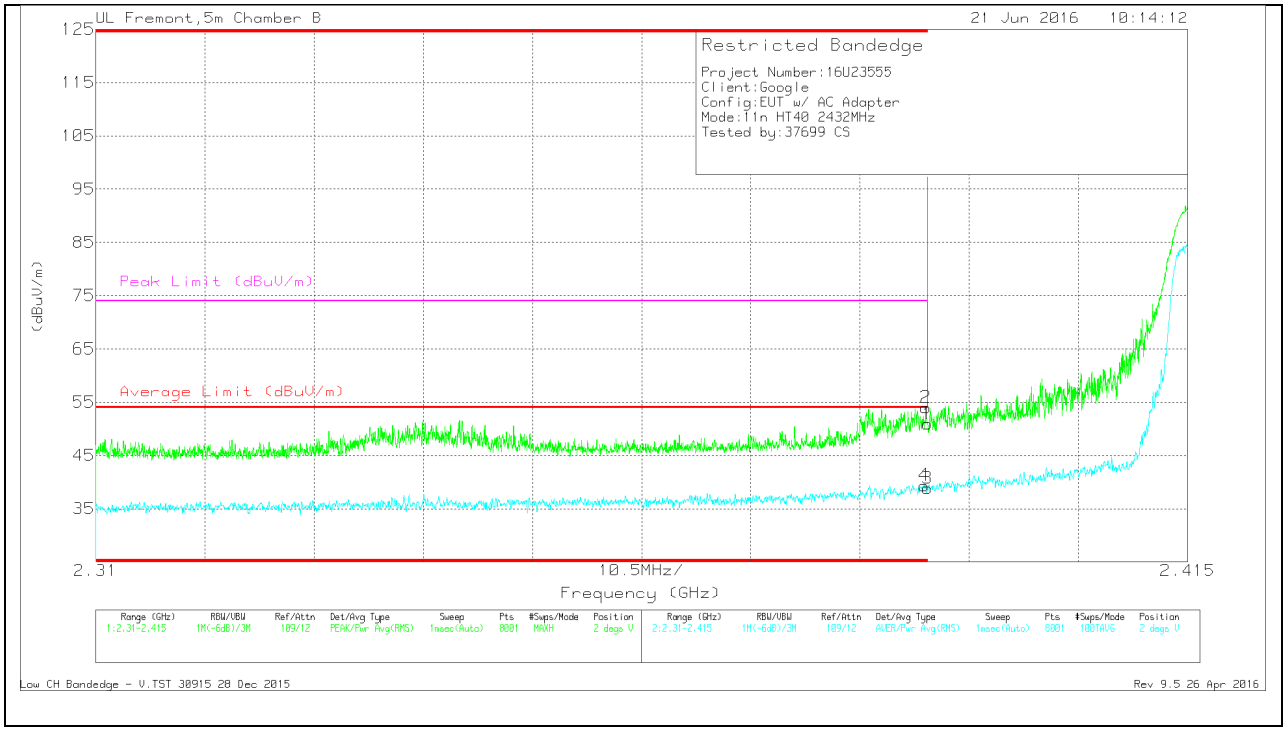
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	50.83	Pk	32.1	-22.3	0	60.63	-	-	74	-13.37	350	135	H
2	* 2.388	53.58	Pk	32.1	-22.4	0	63.28	-	-	74	-10.72	350	135	H
3	* 2.39	39.31	RMS	32.1	-22.3	.14	49.25	54	-4.75	-	-	350	135	H
4	* 2.389	40.21	RMS	32.1	-22.3	.14	50.15	54	-3.85	-	-	350	135	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

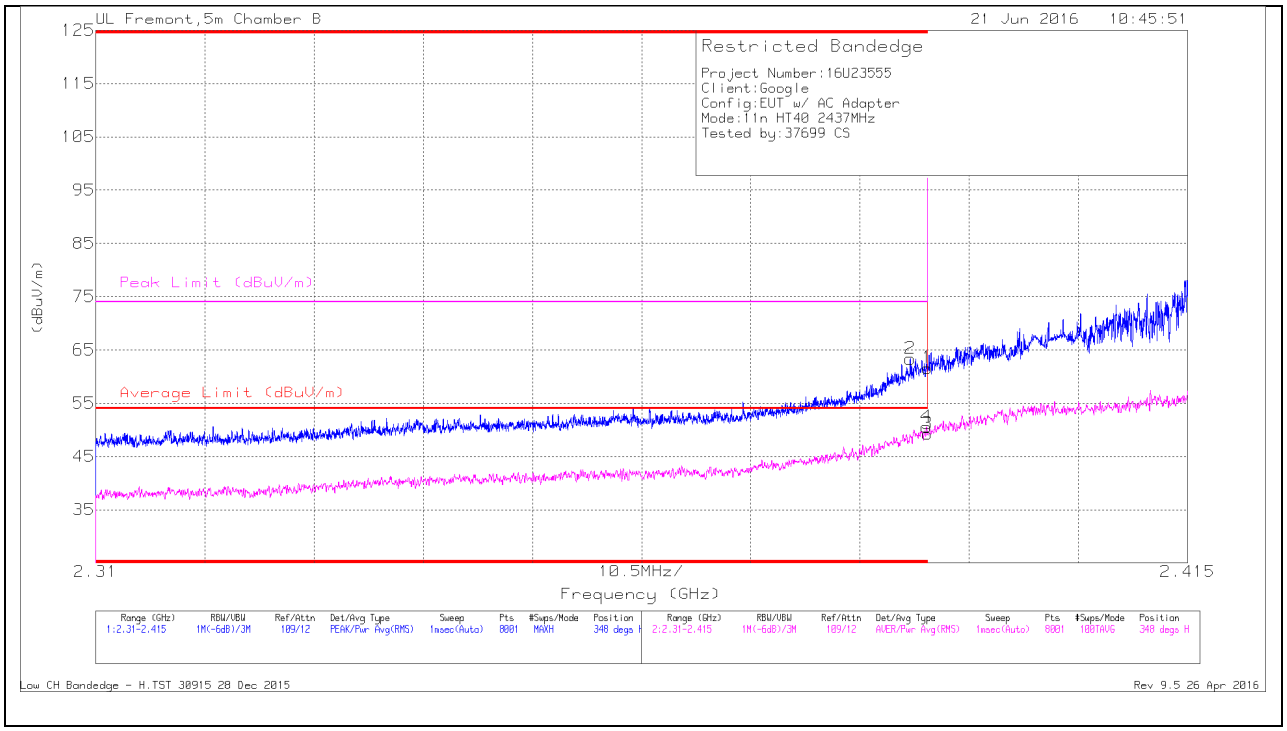


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.11	Pk	32.1	-22.3	0	50.91	-	-	74	-23.09	2	109	V
2	* 2.39	44.18	Pk	32.1	-22.3	0	53.98	-	-	74	-20.02	2	109	V
3	* 2.39	29.02	RMS	32.1	-22.3	.14	38.96	54	-15.04	-	-	2	109	V
4	* 2.39	29.56	RMS	32.1	-22.3	.14	39.5	54	-14.5	-	-	2	109	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 6)

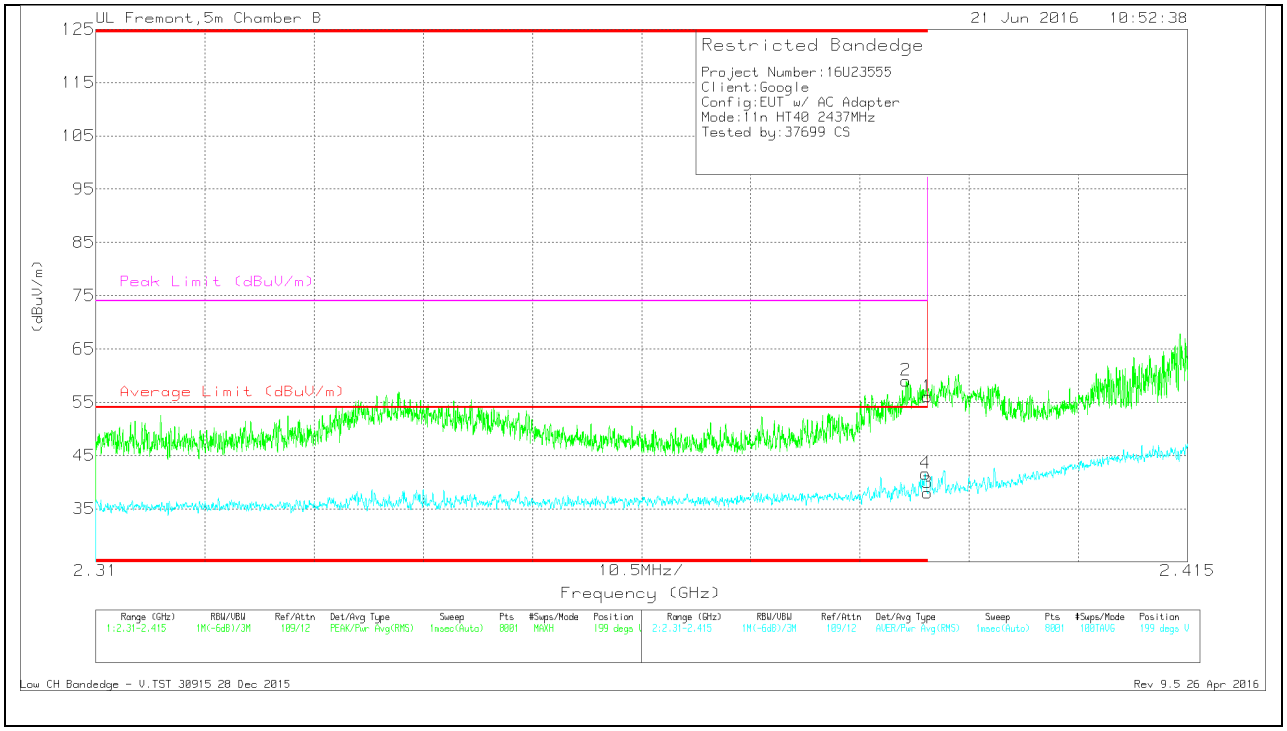
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	* 2.388	53.65	Pk	32.1	-22.4	0	63.35	-	-	74	-10.65	348	133	H
1	* 2.39	51.82	Pk	32.1	-22.3	0	61.62	-	-	74	-12.38	348	133	H
3	* 2.39	39.31	RMS	32.1	-22.3	.14	49.25	54	-4.75	-	-	348	133	H
4	* 2.39	40.64	RMS	32.1	-22.3	.14	50.58	54	-3.42	-	-	348	133	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

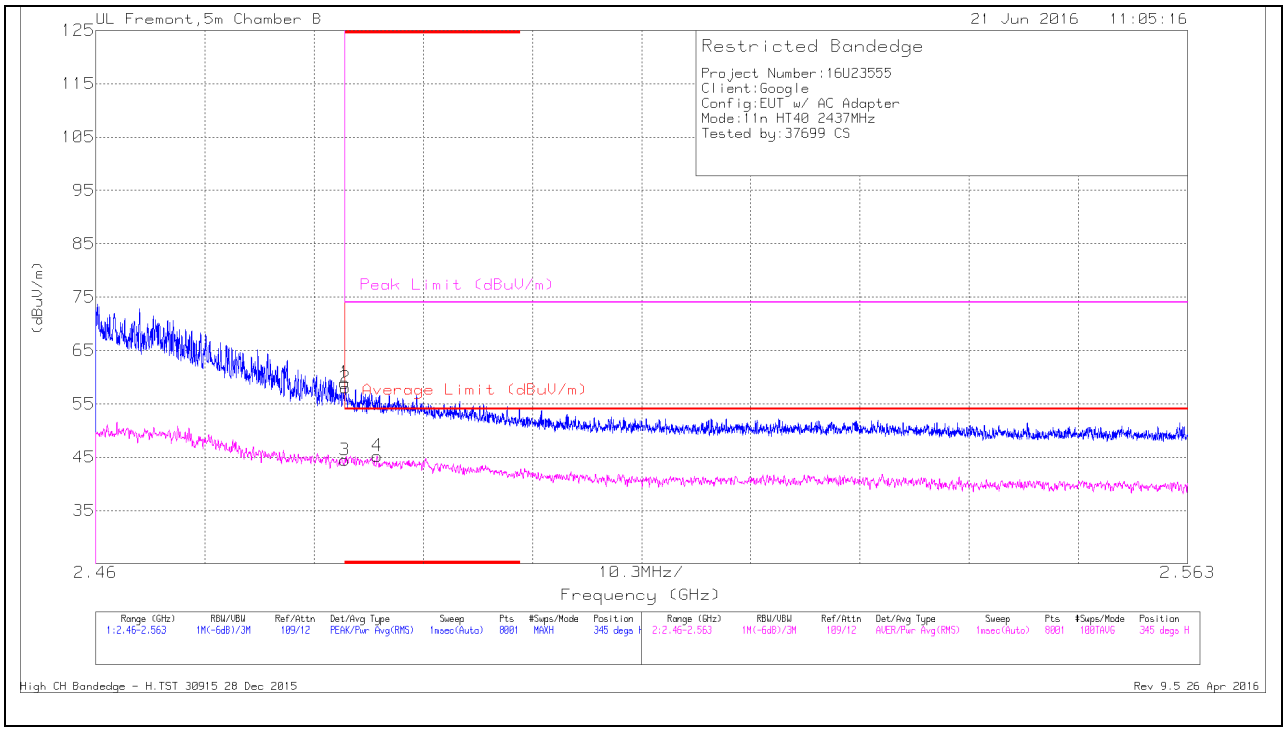


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.388	49.36	Pk	32.1	-22.4	0	59.06	-	-	74	-14.94	199	107	V
1	* 2.39	46.25	Pk	32.1	-22.3	0	56.05	-	-	74	-17.95	199	107	V
3	* 2.39	28.03	RMS	32.1	-22.3	.14	37.97	54	-16.03	-	-	199	107	V
4	* 2.39	31.66	RMS	32.1	-22.3	.14	41.6	54	-12.4	-	-	199	107	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 6)

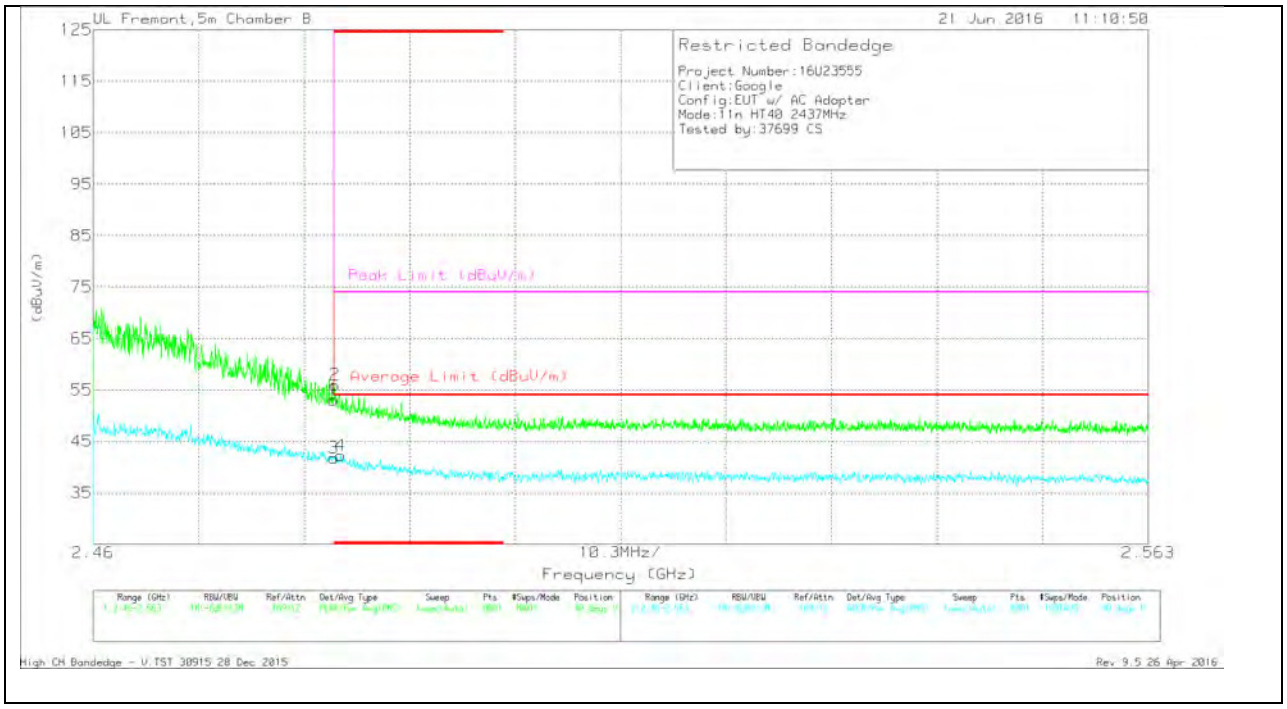
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	48.95	Pk	32.3	-22.3	0	58.95	-	-	74	-15.05	345	169	H
2	* 2.484	48	Pk	32.3	-22.3	0	58	-	-	74	-16	345	169	H
3	* 2.484	34.32	RMS	32.3	-22.3	.14	44.46	54	-9.54	-	-	345	169	H
4	* 2.487	35.07	RMS	32.3	-22.3	.14	45.21	54	-8.79	-	-	345	169	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

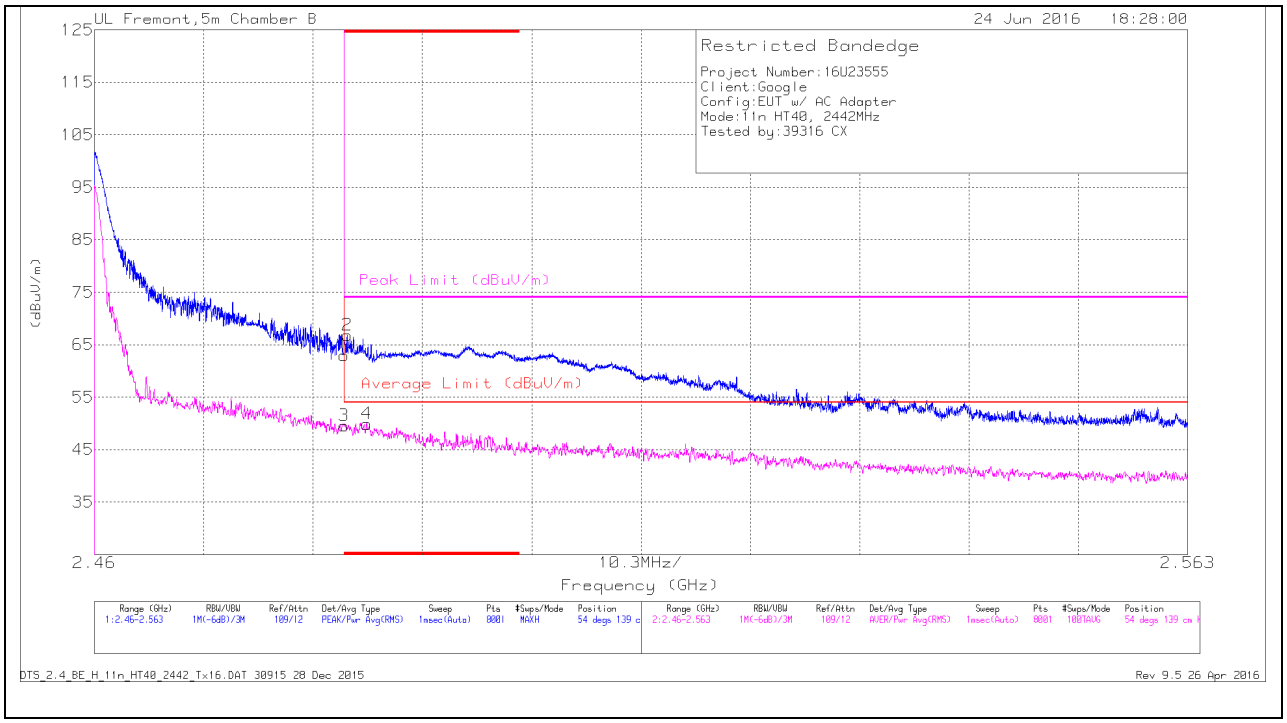


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.09	Pk	32.3	-22.3	0	53.09	-	-	74	-20.91	40	398	V
2	* 2.484	45.99	Pk	32.3	-22.3	0	55.99	-	-	74	-18.01	40	398	V
3	* 2.484	31.66	RMS	32.3	-22.3	.14	41.8	54	-12.2	-	-	40	398	V
4	* 2.484	32.1	RMS	32.3	-22.3	.14	42.24	54	-11.76	-	-	40	398	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 7)

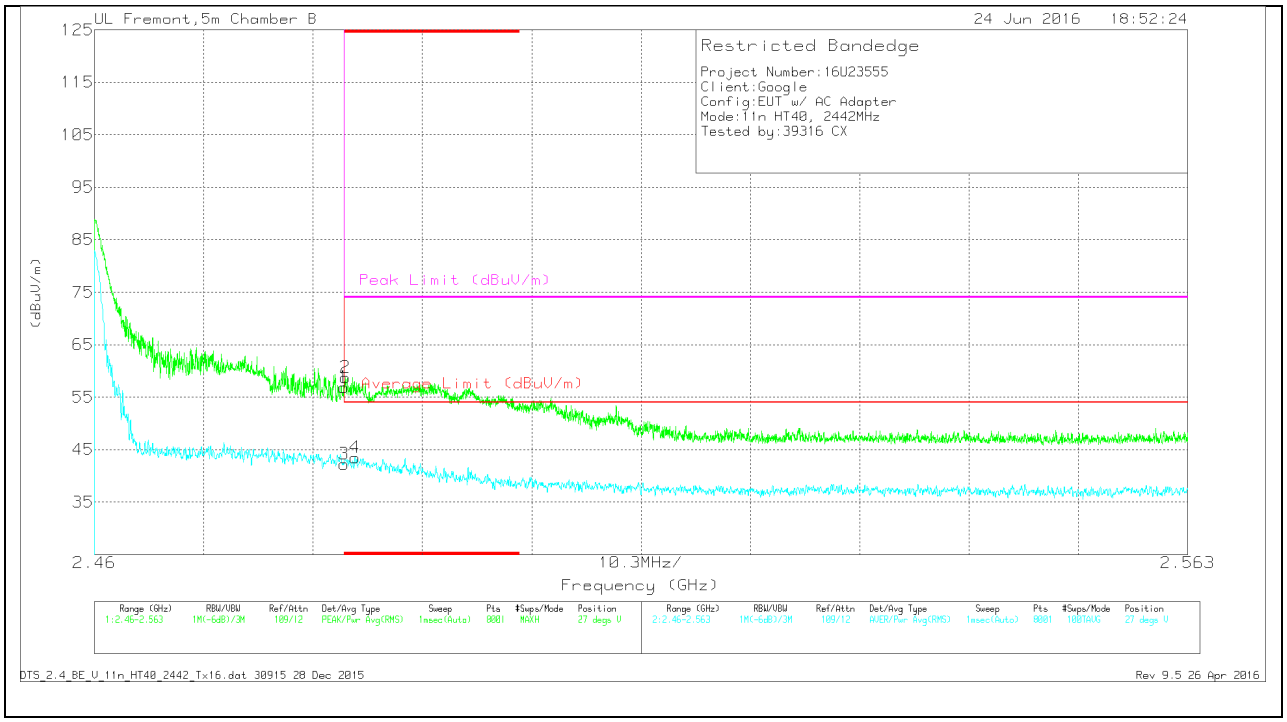
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	52.97	Pk	32.3	-22.3	0	62.97	-	-	74	-11.03	54	139	H
2	* 2.484	56.84	Pk	32.3	-22.3	0	66.84	-	-	74	-7.16	54	139	H
3	* 2.484	39.57	RMS	32.3	-22.3	.14	49.71	54	-4.29	-	-	54	139	H
4	* 2.486	39.86	RMS	32.3	-22.3	.14	50.00	54	-4.00	-	-	54	139	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

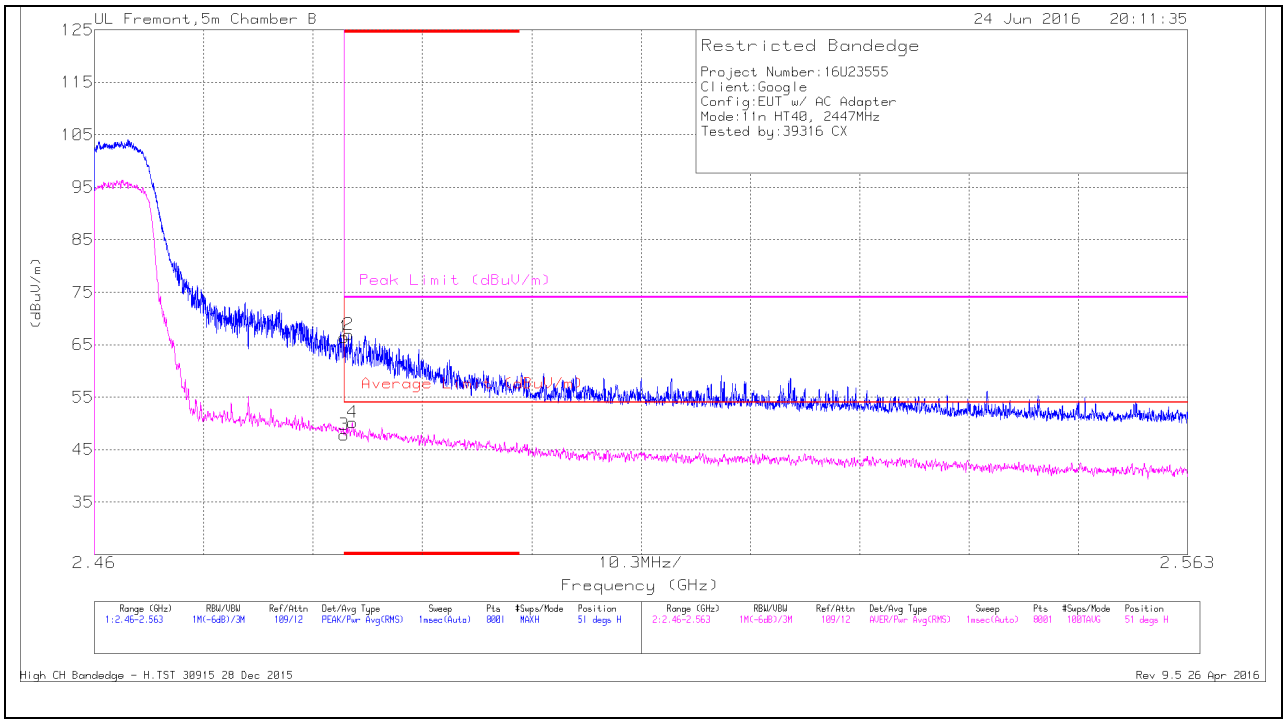


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.84	Pk	32.3	-22.3	0	56.84	-	-	74	-17.16	27	401	V
2	* 2.484	48.79	Pk	32.3	-22.3	0	58.79	-	-	74	-15.21	27	401	V
3	* 2.484	32.21	RMS	32.3	-22.3	.14	42.35	54	-11.65	-	-	27	401	V
4	* 2.485	33.41	RMS	32.3	-22.3	.14	43.55	54	-10.45	-	-	27	401	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (CHANNEL 8)

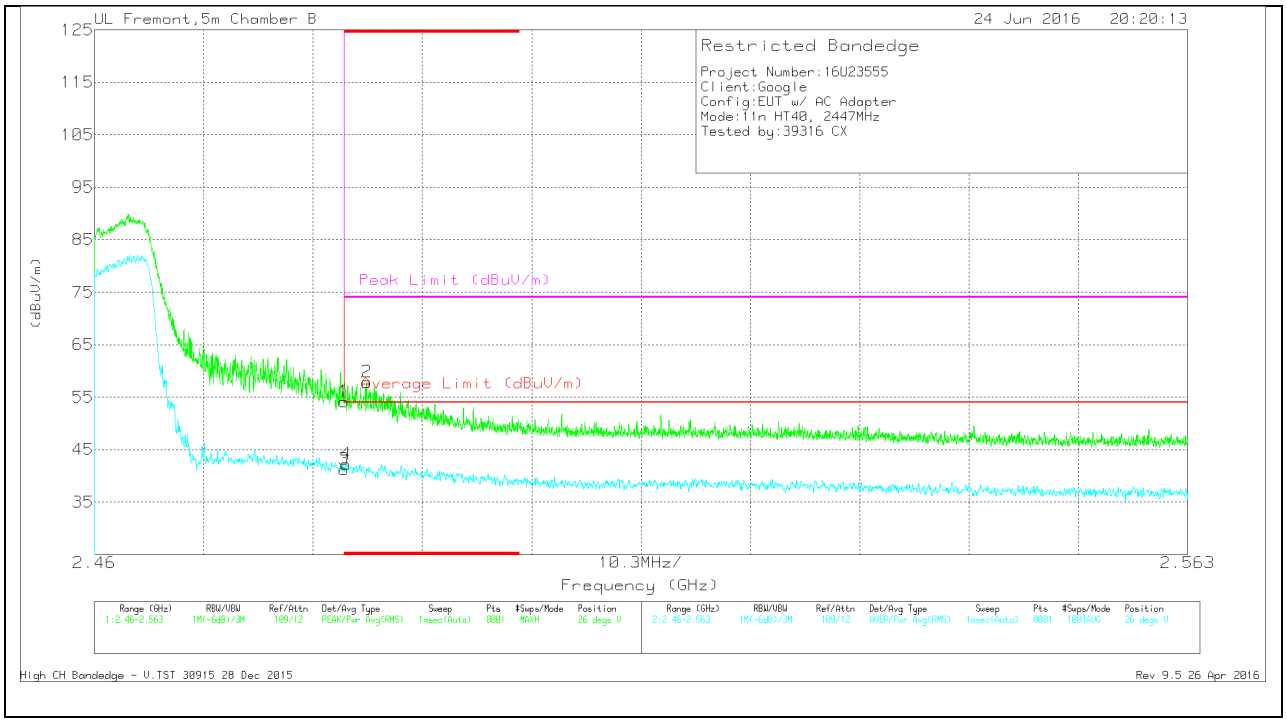
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	56.41	Pk	32.3	-22.3	0	66.41	-	-	74	-7.59	51	130	H
2	* 2.484	56.94	Pk	32.3	-22.3	0	66.94	-	-	74	-7.06	51	130	H
3	* 2.484	37.64	RMS	32.3	-22.3	.14	47.78	54	-6.22	-	-	51	130	H
4	* 2.484	39.97	RMS	32.3	-22.3	.14	50.11	54	-3.89	-	-	51	130	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

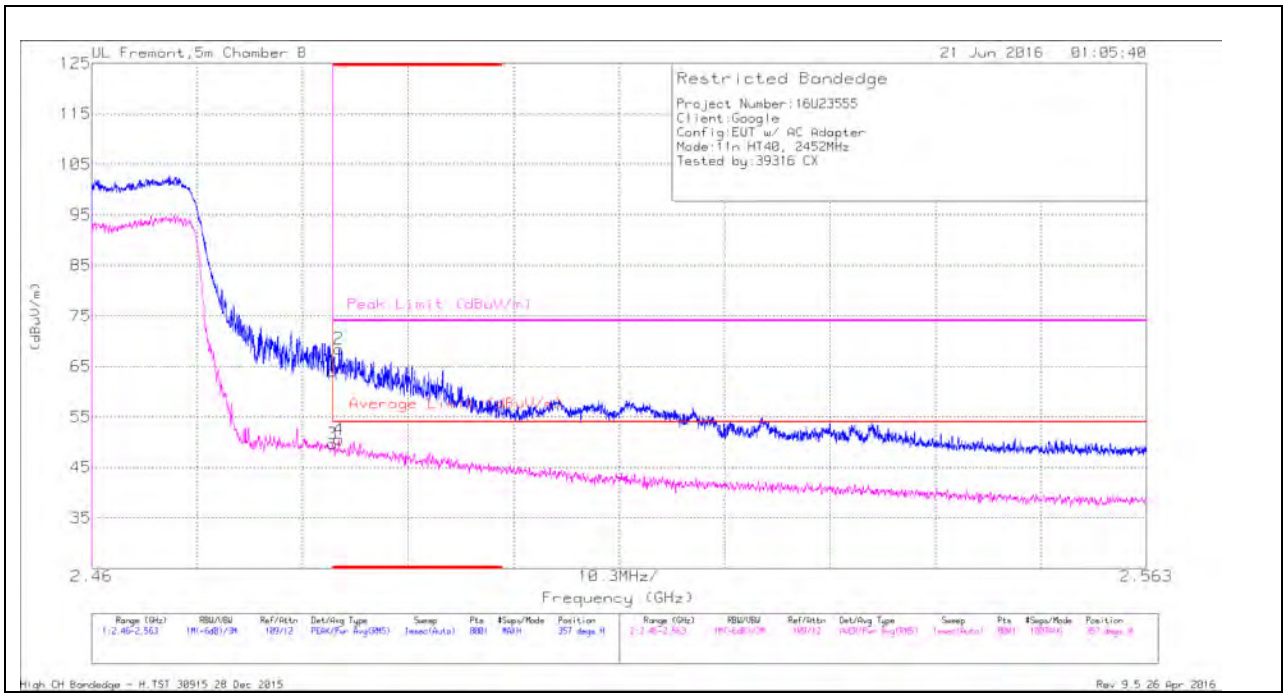


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.15	Pk	32.3	-22.3	0	54.15	-	-	74	-19.85	26	387	V
3	* 2.484	31.04	RMS	32.3	-22.3	.14	41.18	54	-12.82	-	-	26	387	V
4	* 2.484	32.12	RMS	32.3	-22.3	.14	42.26	54	-11.74	-	-	26	387	V
2	* 2.486	47.9	Pk	32.3	-22.3	0	57.9	-	-	74	-16.1	26	387	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

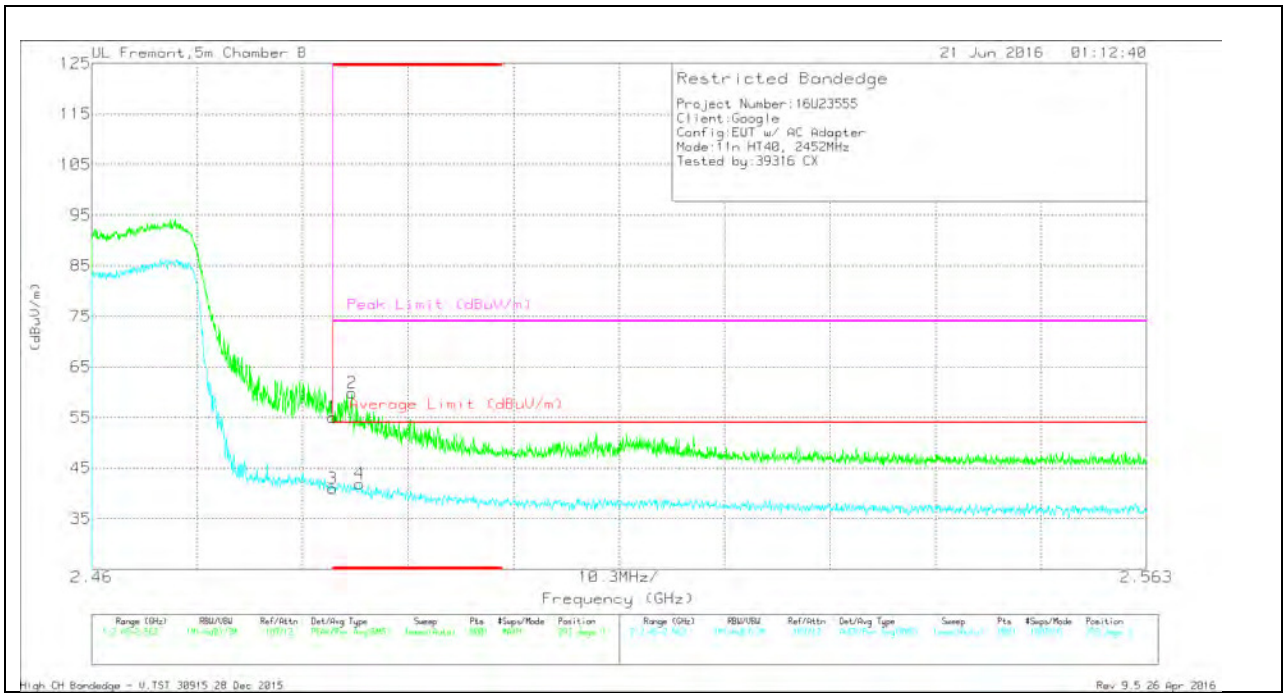
HORIZONTAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (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	54.11	Pk	32.3	-22.3	0	64.11	-	-	74	-9.89	357	186	H
2	* 2.484	58.48	Pk	32.3	-22.3	0	68.48	-	-	74	-5.52	357	186	H
3	* 2.484	39.52	RMS	32.3	-22.3	.14	49.66	54	-4.34	-	-	357	186	H
4	* 2.484	40.41	RMS	32.3	-22.3	.14	50.55	54	-3.45	-	-	357	186	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULTS

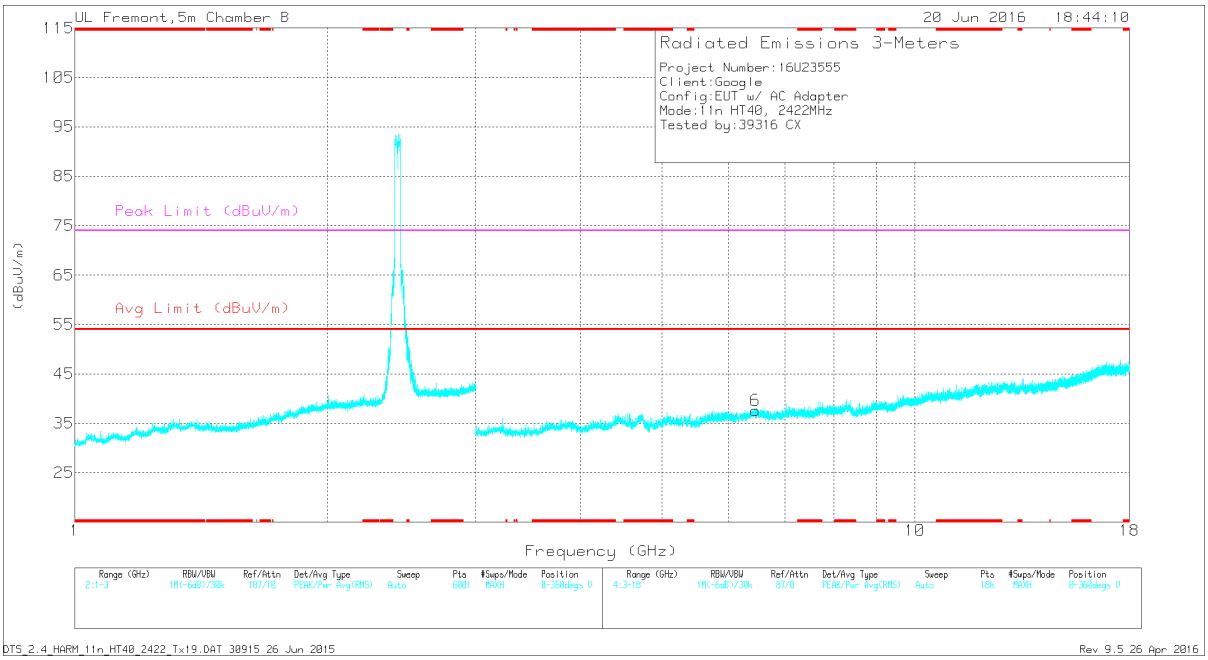


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.07	Pk	32.3	-22.3	0	55.07	-	-	74	-18.93	293	386	V
2	* 2.485	49.8	Pk	32.3	-22.2	0	59.9	-	-	74	-14.1	293	386	V
3	* 2.484	30.8	RMS	32.3	-22.3	.14	40.94	54	-13.06	-	-	293	386	V
4	* 2.486	31.76	RMS	32.3	-22.3	.14	41.90	54	-12.10	-	-	293	386	V

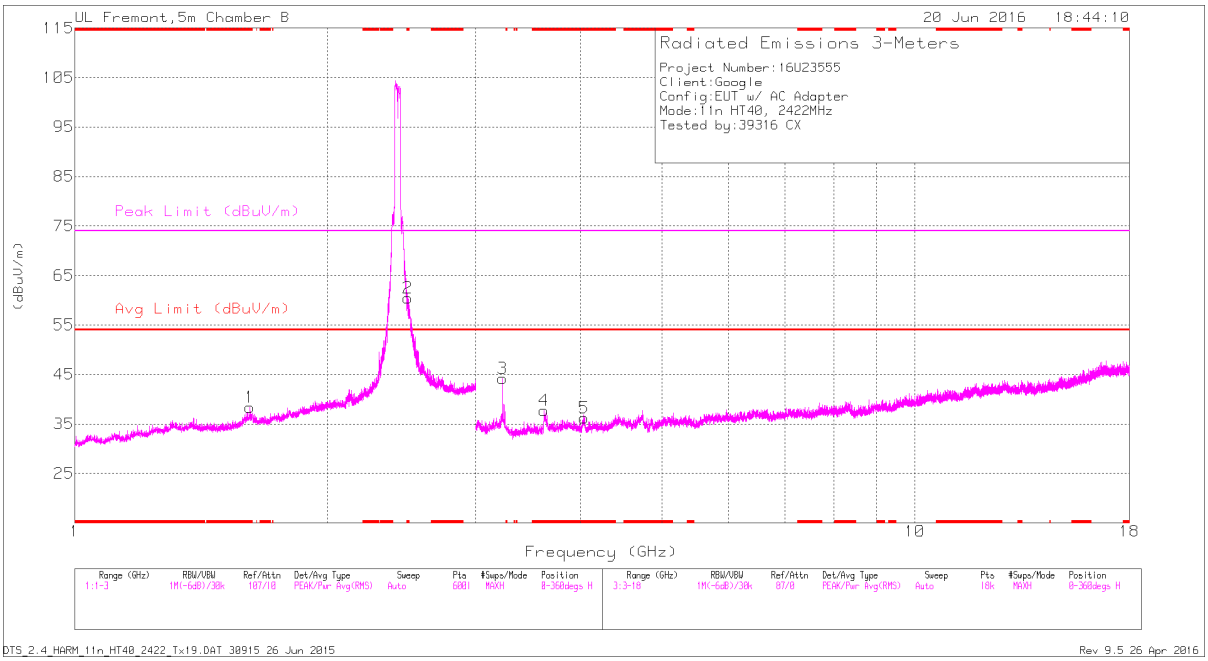
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZTONAL



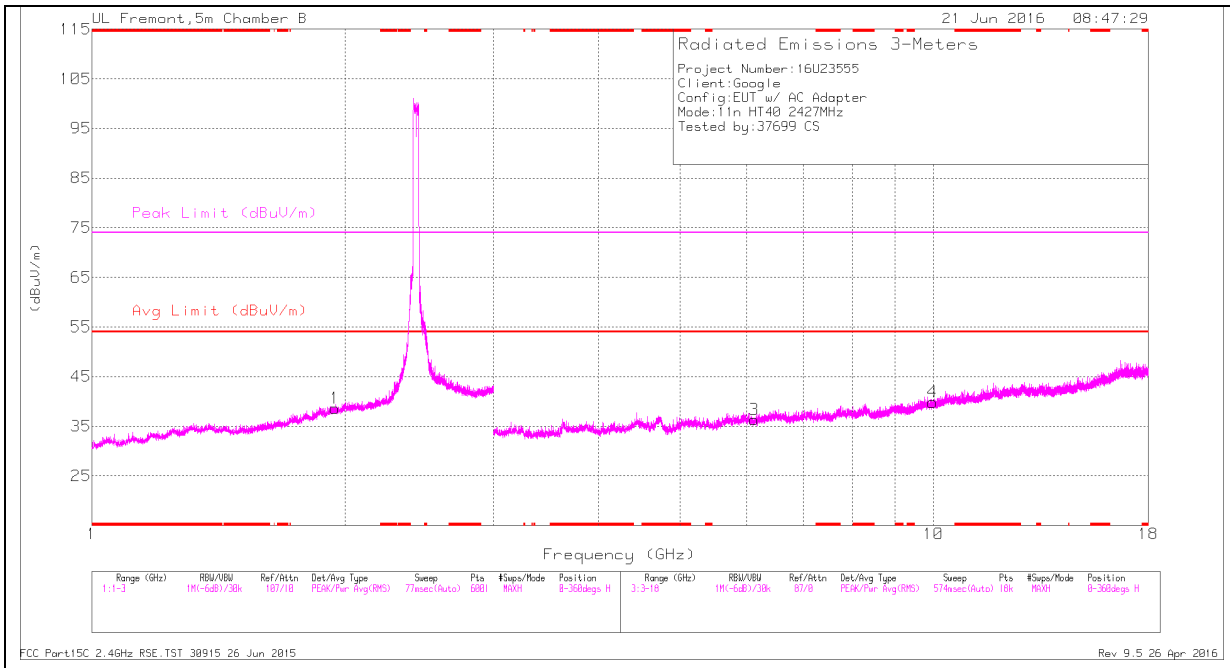
VERTICAL

LOW CHANNEL DATA

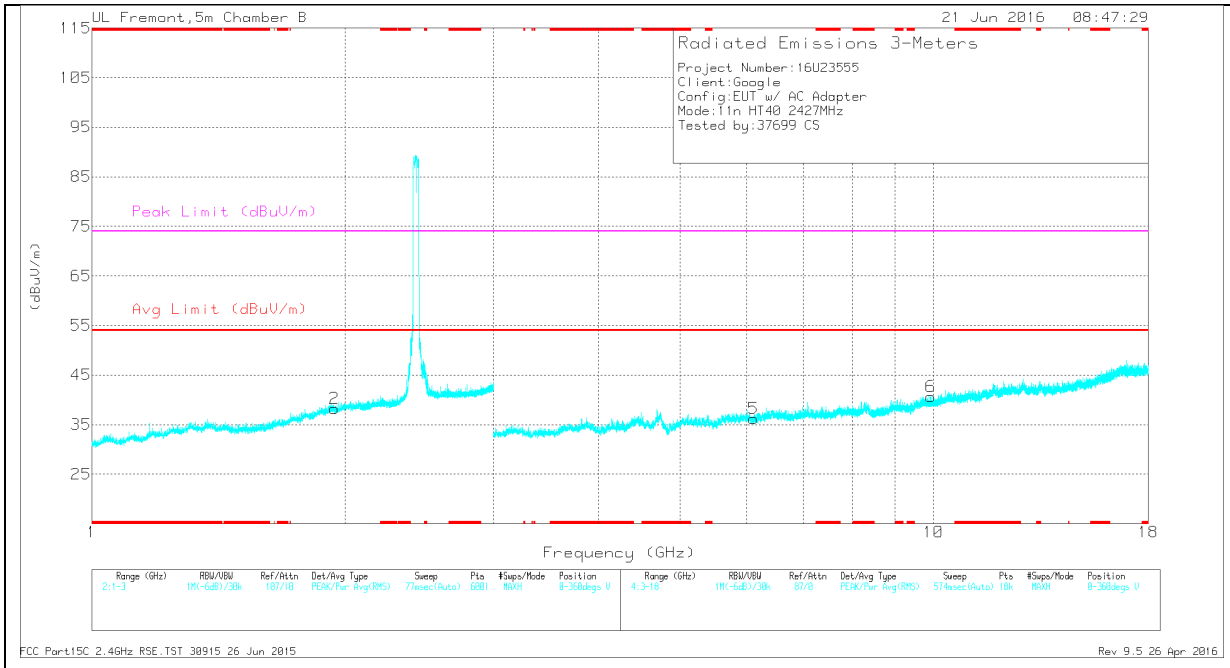
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	56.45	PK2	32.3	-22.3	0	66.45	-	-	74	-7.55	8	235	H
	* 2.491	39.2	MAv1	32.3	-22.3	.14	49.34	54	-4.66	-	-	8	235	H
2	* 1.614	39.17	PK2	28.2	-22.4	0	44.97	-	-	74	-29.03	9	103	H
	* 1.615	27.68	MAv1	28.3	-22.4	.14	33.72	54	-20.28	-	-	9	103	H
4	* 3.616	44.66	PK2	33.1	-33.2	0	44.56	-	-	74	-29.44	261	227	H
	* 3.618	36.07	MAv1	33.1	-33.2	.14	36.11	54	-17.89	-	-	261	227	H
5	* 4.023	42.84	PK2	33.4	-33.1	0	43.14	-	-	74	-30.86	266	138	H
	* 4.029	32.8	MAv1	33.4	-33.1	.14	33.24	54	-20.76	-	-	266	138	H
3	3.229	44.13	Pk	32.9	-32.8	0	44.23	-	-	-	-	0-360	101	H
6	6.455	32.55	Pk	35.6	-30.6	0	37.55	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 4 RESULTS



HORIZTONAL



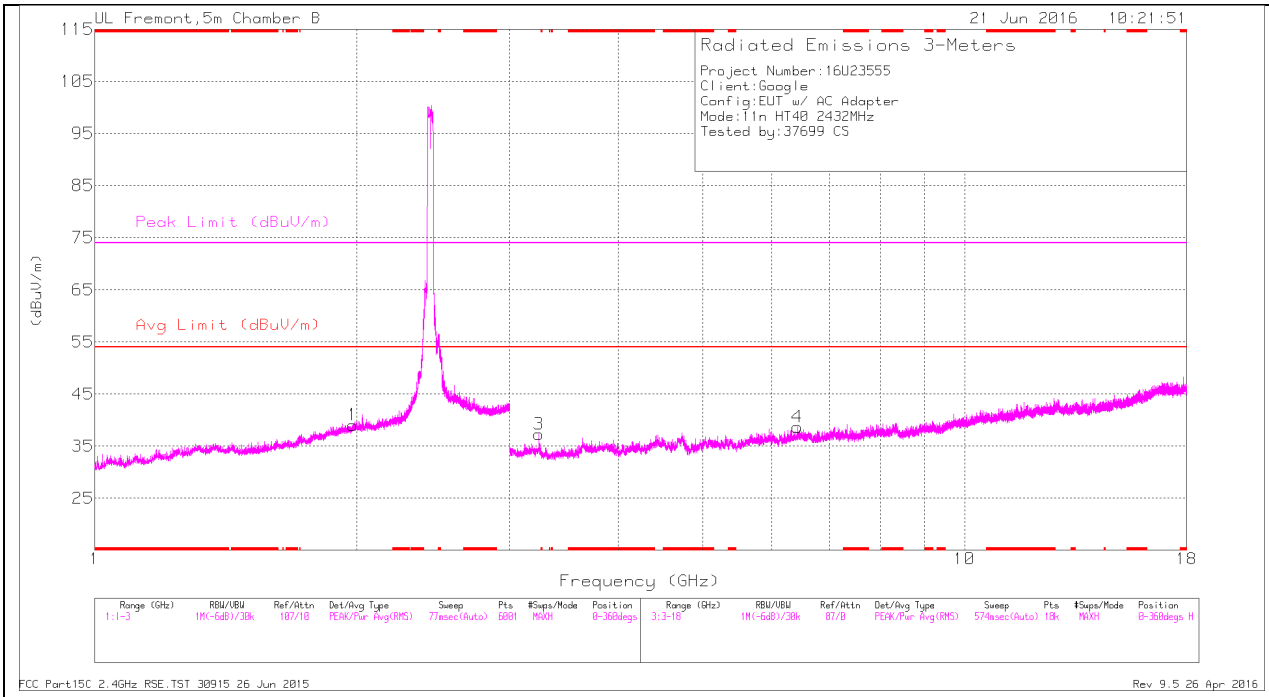
VERTICAL

CHANNEL 4 DATA

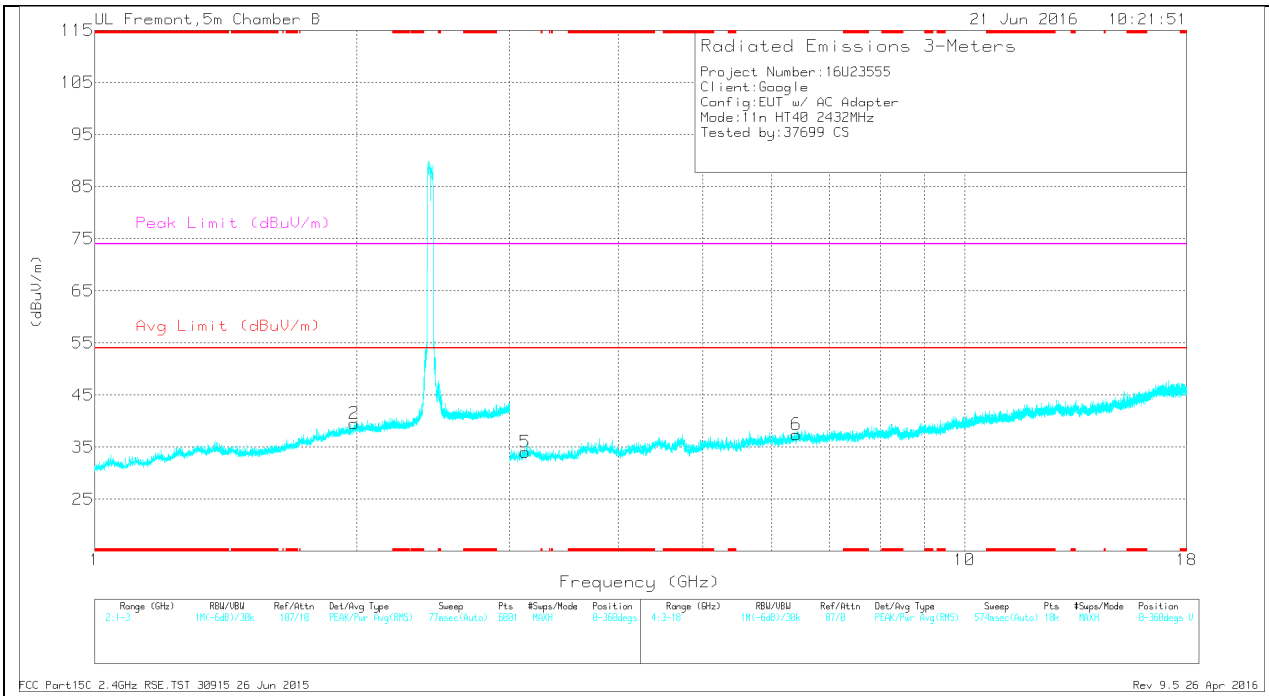
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.942	29.09	Pk	31.1	-22	38.19	-	-	-	-	0-360	199	V
1	1.945	29.39	Pk	31.1	-21.9	38.59	-	-	-	-	0-360	101	H
5	6.109	32.91	Pk	35.4	-32.1	36.21	-	-	-	-	0-360	101	V
3	6.126	32.83	Pk	35.4	-31.9	36.33	-	-	-	-	0-360	199	H
6	9.922	30.01	Pk	37.3	-26.7	40.61	-	-	-	-	0-360	101	V
4	9.975	28.93	Pk	37.4	-26.5	39.83	-	-	-	-	0-360	101	H

Pk - Peak detector

CHANNEL 5 RESULTS



HORIZTONAL



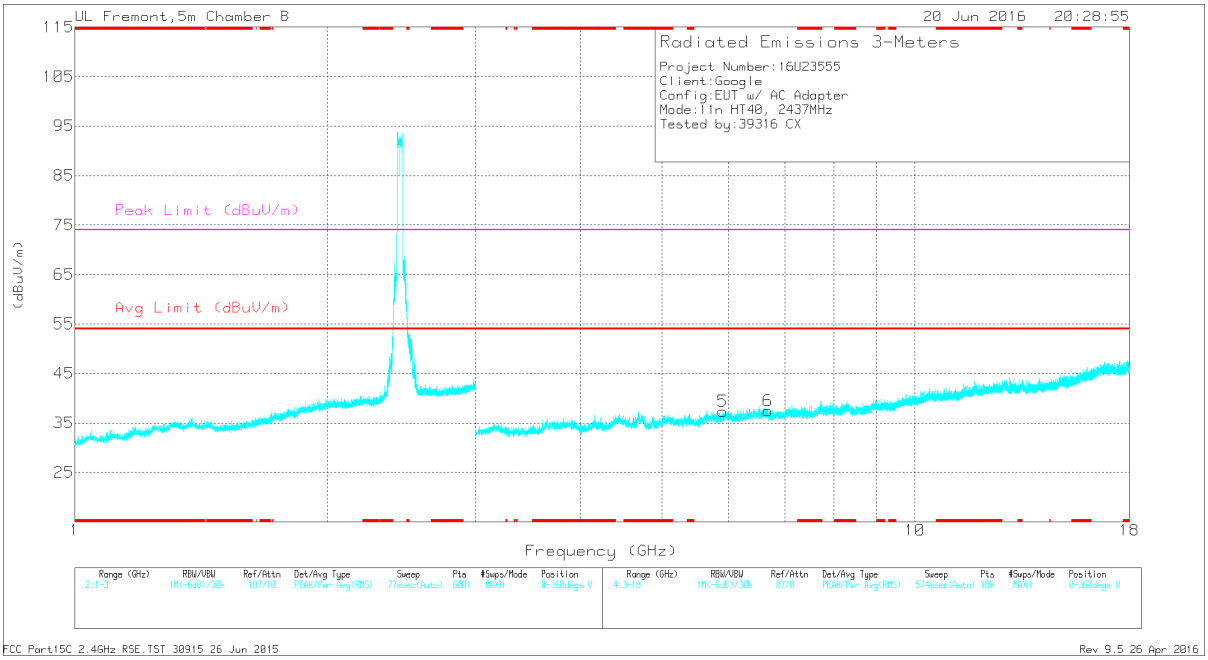
VERTICAL

CHANNEL 5 DATA

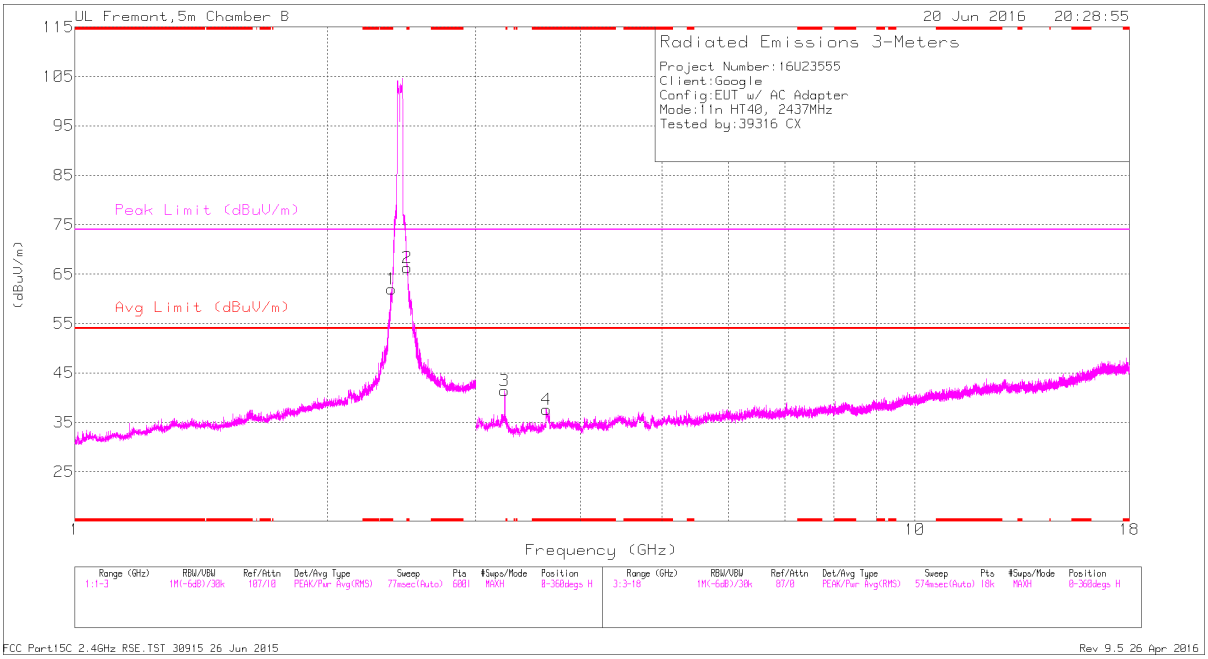
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.981	29.94	Pk	31.4	-22.3	0	39.04	-	-	-	-	0-360	99	H
2	1.988	30.33	Pk	31.4	-22.2	0	39.53	-	-	-	-	0-360	101	V
5	3.127	33.91	Pk	32.8	-32.7	0	34.01	-	-	-	-	0-360	101	V
3	3.242	37.27	Pk	32.8	-32.8	0	37.27	-	-	-	-	0-360	199	H
6	6.411	33.21	Pk	35.6	-31.4	0	37.41	-	-	-	-	0-360	199	V
4	6.424	34.25	Pk	35.6	-31.2	0	38.65	-	-	-	-	0-360	199	H

Pk - Peak detector

MID CHANNEL RESULTS



HORIZTONAL



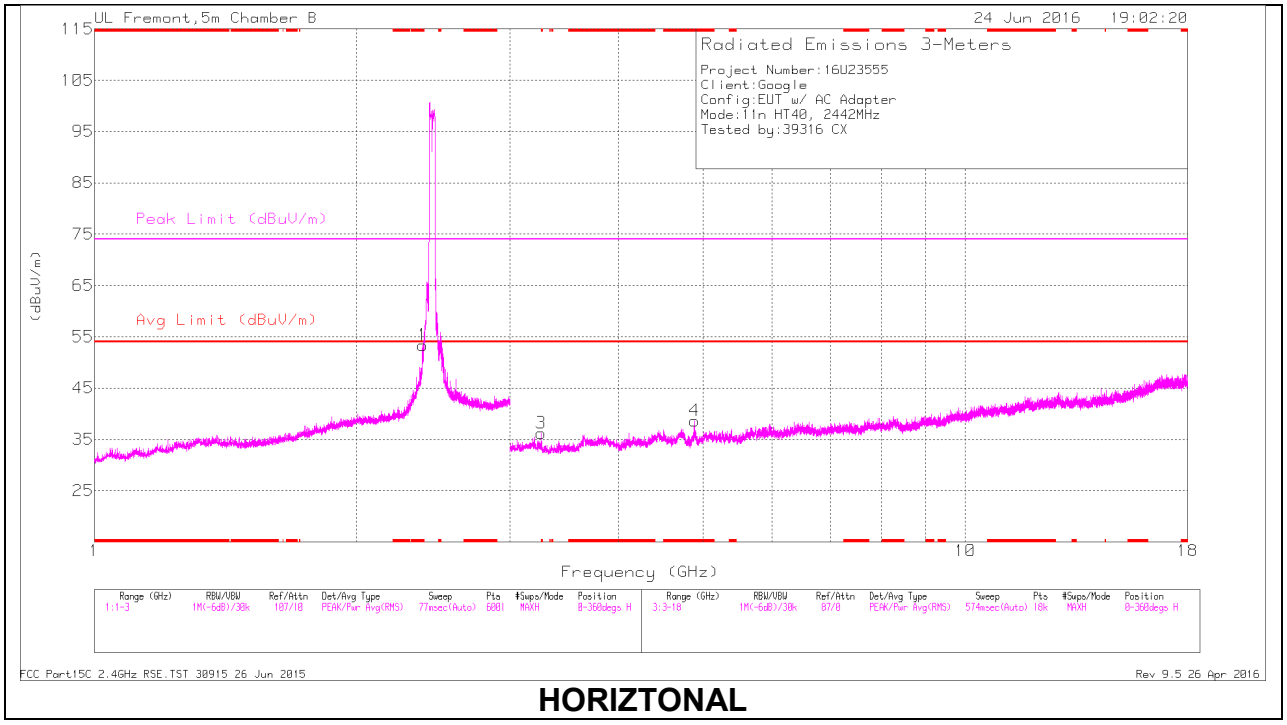
VERTICAL

MID CHANNEL DATA

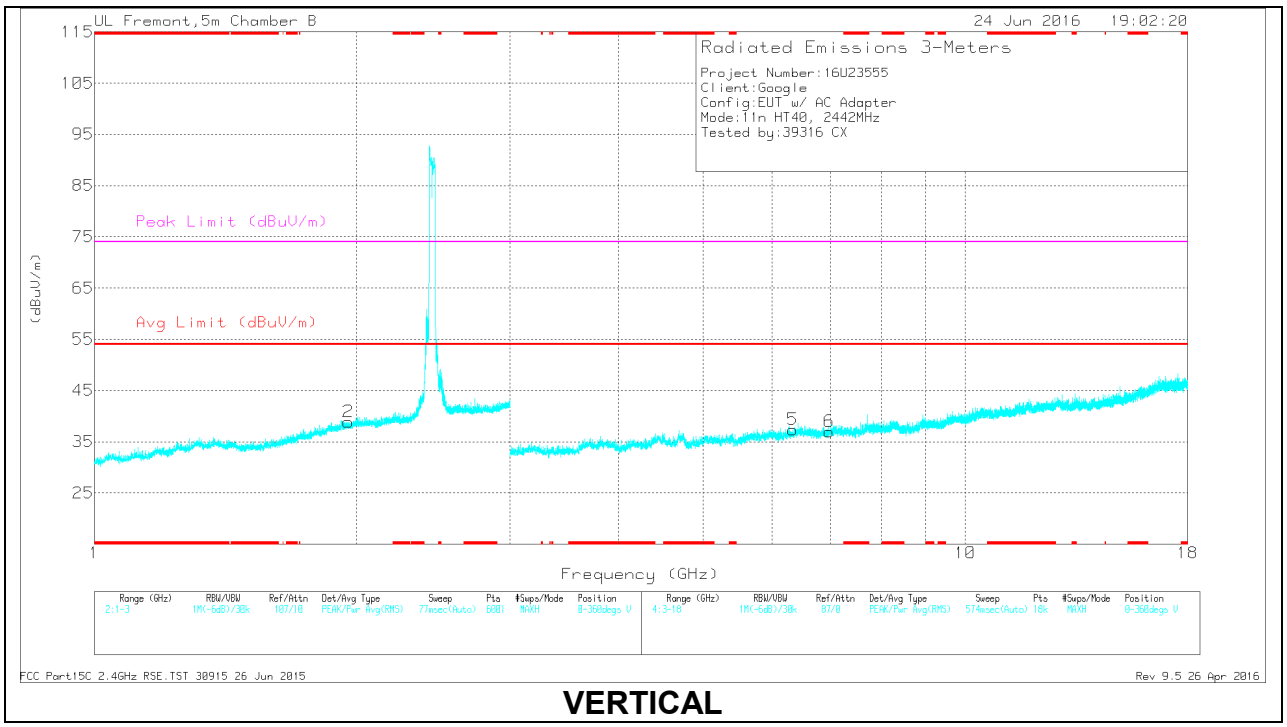
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.08	PK2	32.1	-22.3	0	63.88	-	-	74	-10.12	18	256	H
	* 2.39	40.11	MAv1	32.1	-22.3	.14	50.05	54	-3.95	-	-	18	256	H
2	* 2.487	53.53	PK2	32.3	-22.3	0	63.53	-	-	74	-10.47	17	133	H
	* 2.486	37.48	MAv1	32.3	-22.3	.14	47.62	54	-6.38	-	-	17	133	H
4	* 3.647	42.83	PK2	33.2	-32.7	0	43.33	-	-	74	-30.67	278	337	H
	* 3.639	33.31	MAv1	33.2	-32.8	.14	33.85	54	-20.15	-	-	278	337	H
3	3.249	41.57	Pk	32.8	-32.9	0	41.47	-	-	-	-	0-360	101	H
5	5.904	33.36	Pk	35.3	-31.3	0	37.36	-	-	-	-	0-360	101	V
6	6.688	33.02	Pk	35.6	-31.2	0	37.42	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 7 RESULTS



HORIZTONAL



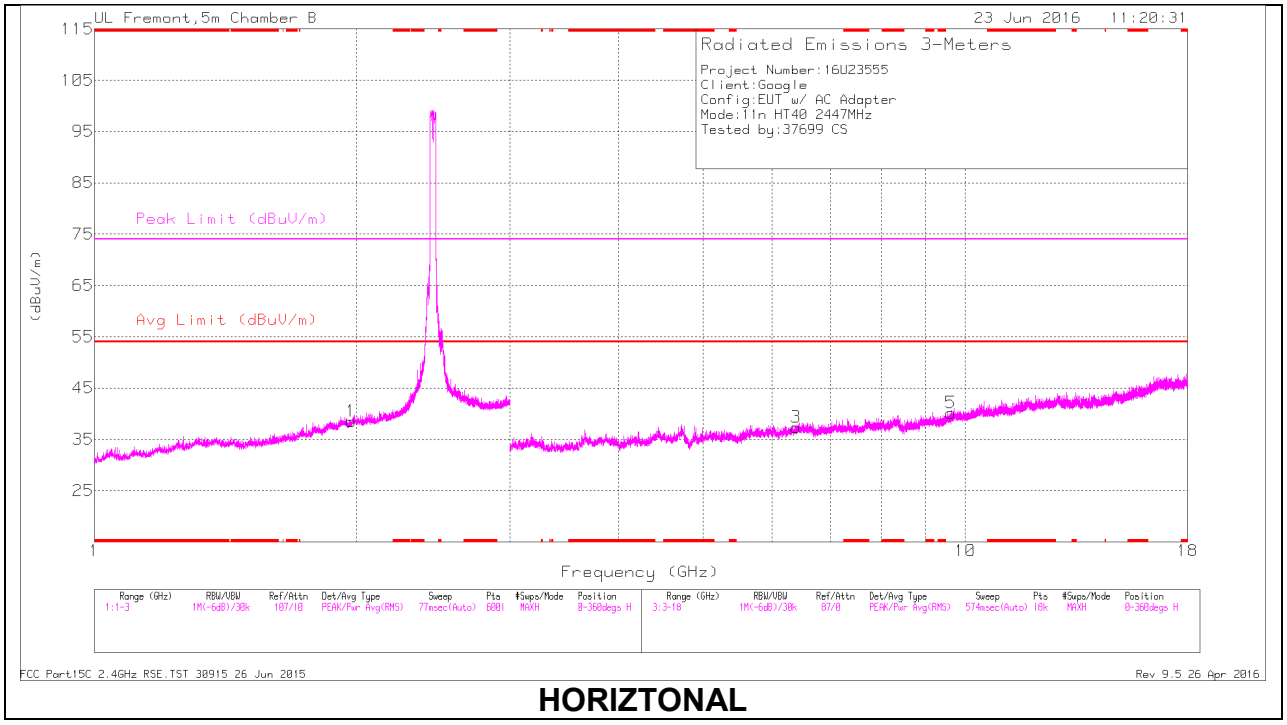
VERTICAL

CHANNEL 7 DATA

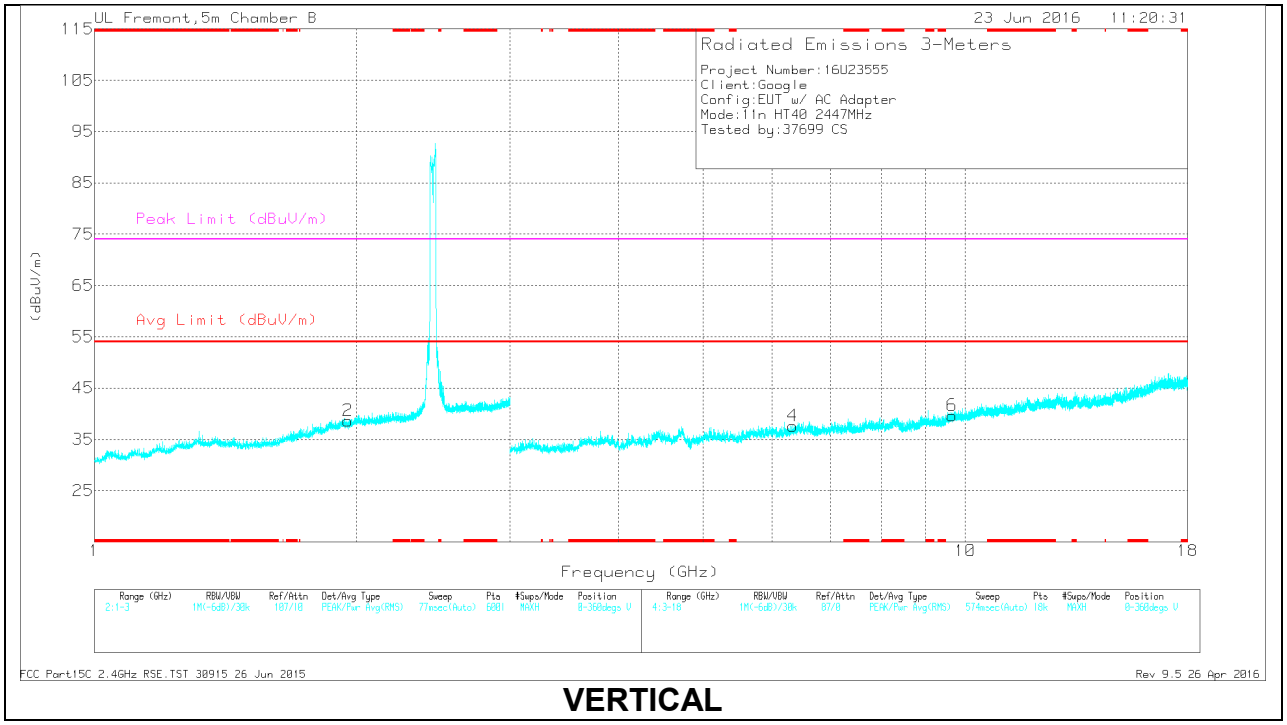
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.388	51.23	PK2	32.1	-22.4	0	60.93	-	-	74	-13.07	64	138	H
	* 2.39	37.29	MAv1	32.1	-22.3	.14	47.23	54	-6.77	-	-	64	138	H
4	* 4.883	48.14	PK2	33.8	-32.8	0	49.14	-	-	74	-24.86	341	108	H
	* 4.884	32.26	MAv1	33.8	-32.8	.14	33.40	54	-20.60	-	-	341	108	H
2	1.957	29.74	Pk	31.2	-22.1	0	38.84	-	-	-	-	0-360	301	V
3	3.256	36.43	Pk	32.7	-32.9	0	36.23	-	-	-	-	0-360	101	H
5	6.34	33.2	Pk	35.5	-31.4	0	37.3	-	-	-	-	0-360	101	V
6	6.98	32.36	Pk	35.5	-30.9	0	36.96	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

CHANNEL 8 RESULTS



HORIZTONAL



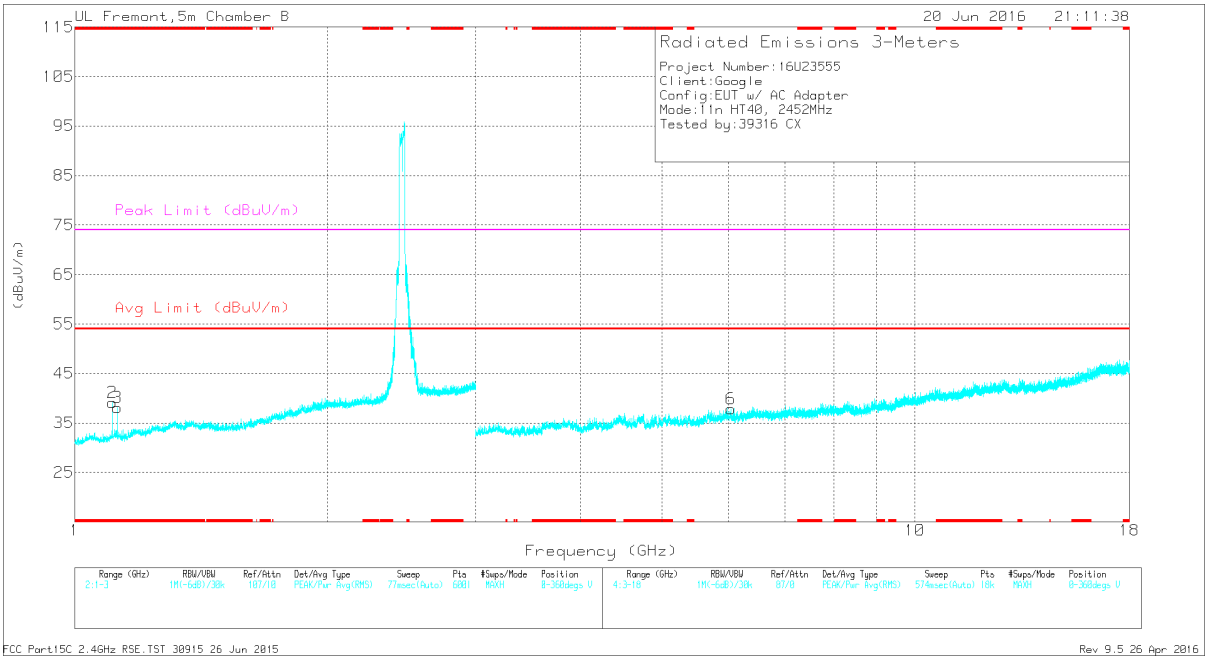
VERTICAL

CHANNEL 7 DATA

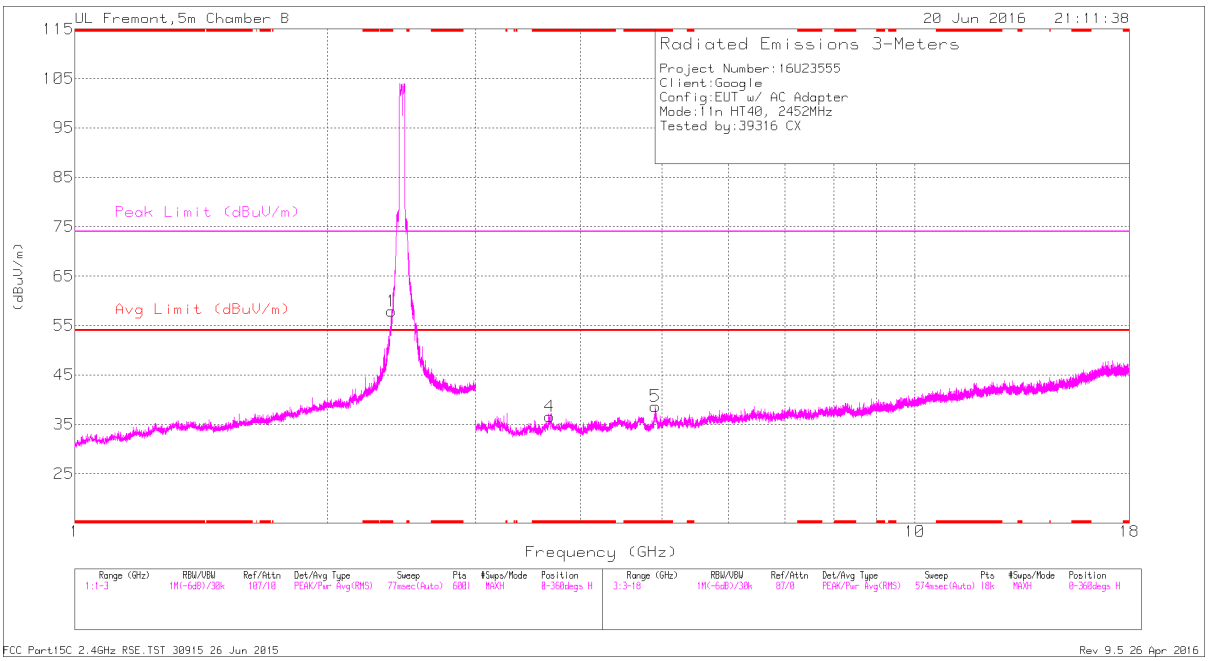
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.956	29.43	Pk	31.2	-22	0	38.63	-	-	-	-	0-360	101	V
1	1.972	29.39	Pk	31.3	-22.2	0	38.49	-	-	-	-	0-360	293	H
4	6.341	33.52	Pk	35.5	-31.4	0	37.62	-	-	-	-	0-360	101	V
3	6.396	33.27	Pk	35.6	-31.5	0	37.37	-	-	-	-	0-360	199	H
5	9.624	30.36	Pk	36.7	-26.9	0	40.16	-	-	-	-	0-360	101	H
6	9.654	29.67	Pk	36.8	-26.8	0	39.67	-	-	-	-	0-360	101	V

Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZTONAL



VERTICAL

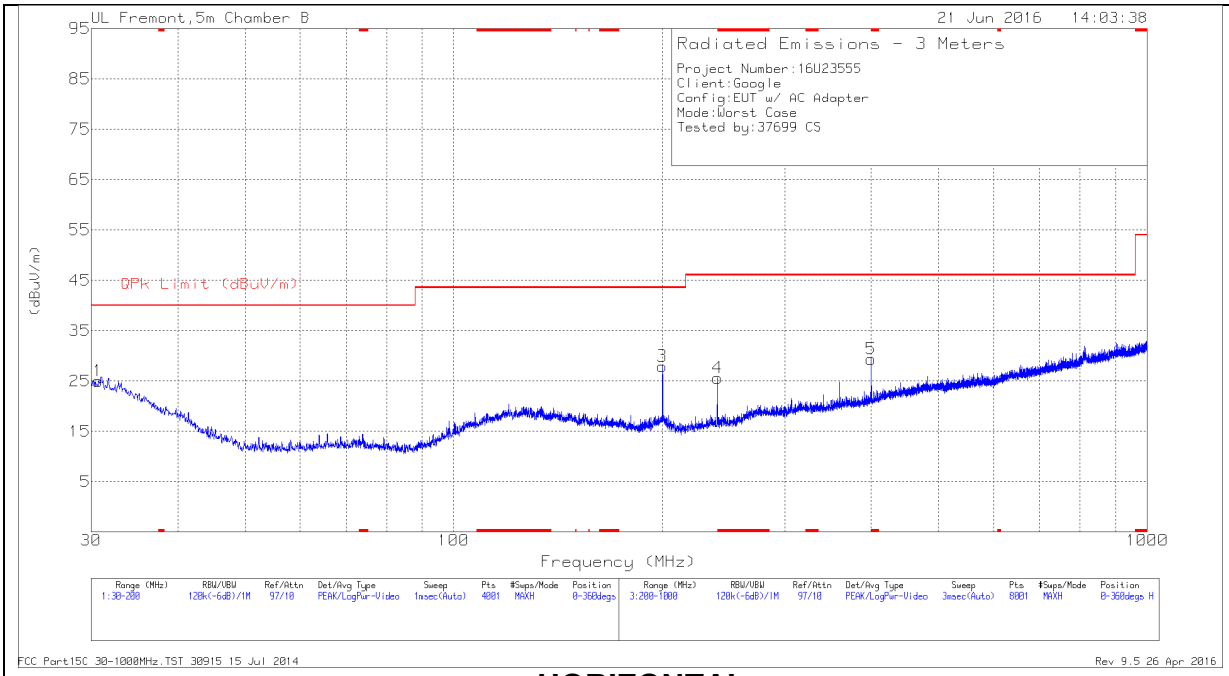
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/ 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	* 2.386	55.37	PK2	32.1	-22.3	0	65.17	-	-	74	-8.83	6	150	H
	* 2.389	40.5	MAv1	32.1	-22.3	.14	50.44	54	-3.56	-	-	6	150	H
2	* 1.108	34.55	PK2	28	-24	0	38.55	-	-	74	-35.45	262	329	V
	* 1.108	24.3	MAv1	28	-24	.14	28.44	54	-25.56	-	-	262	329	V
3	* 1.123	34.58	PK2	28	-23.8	0	38.78	-	-	74	-35.22	275	338	V
	* 1.124	24.04	MAv1	28	-23.8	.14	28.38	54	-25.62	-	-	275	338	V
4	* 3.663	45.2	PK2	33.2	-32.8	0	45.6	-	-	74	-28.4	247	111	H
	* 3.662	35.54	MAv1	33.2	-32.8	.14	36.08	54	-17.92	-	-	247	111	H
5	* 4.922	42.42	PK2	33.9	-32.9	0	43.42	-	-	74	-30.58	252	266	H
	* 4.921	32.06	MAv1	33.9	-32.9	.14	33.20	54	-20.80	-	-	252	266	H
6	6.035	34.04	Pk	35.3	-31.5	0	37.84	-	-	-	-	0-360	199	V

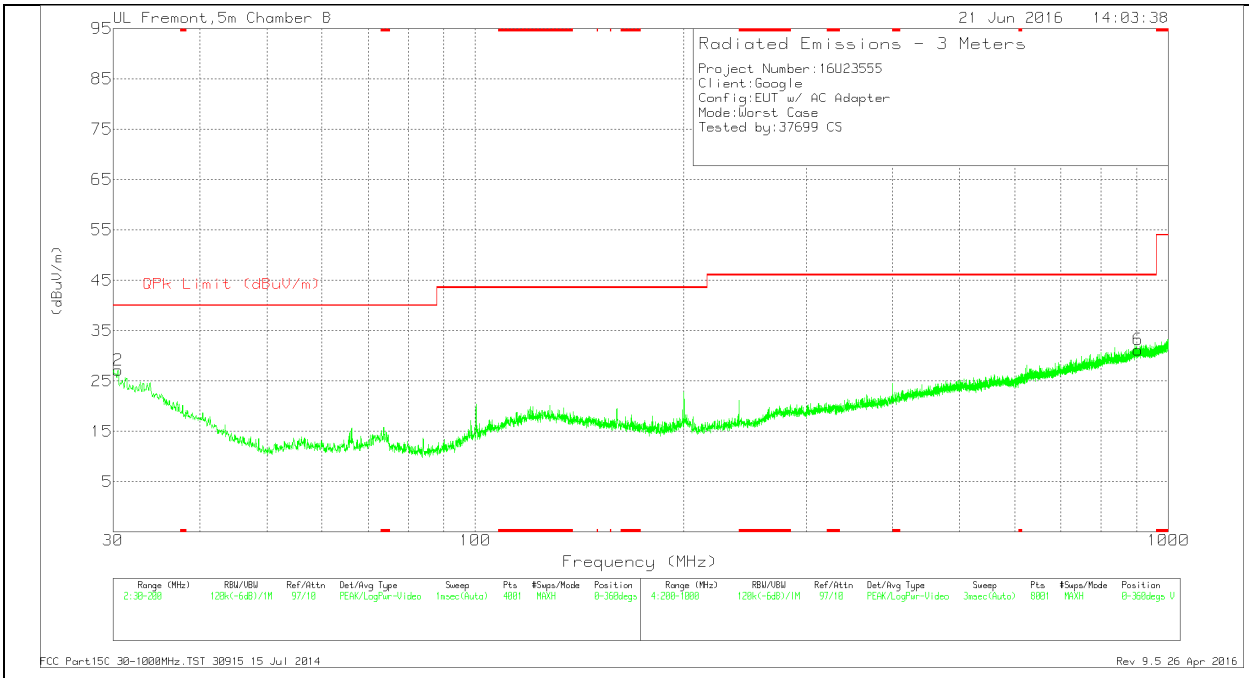
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

5.3. WORST-CASE BELOW 1 GHz

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



HORIZONTAL



VERTICAL

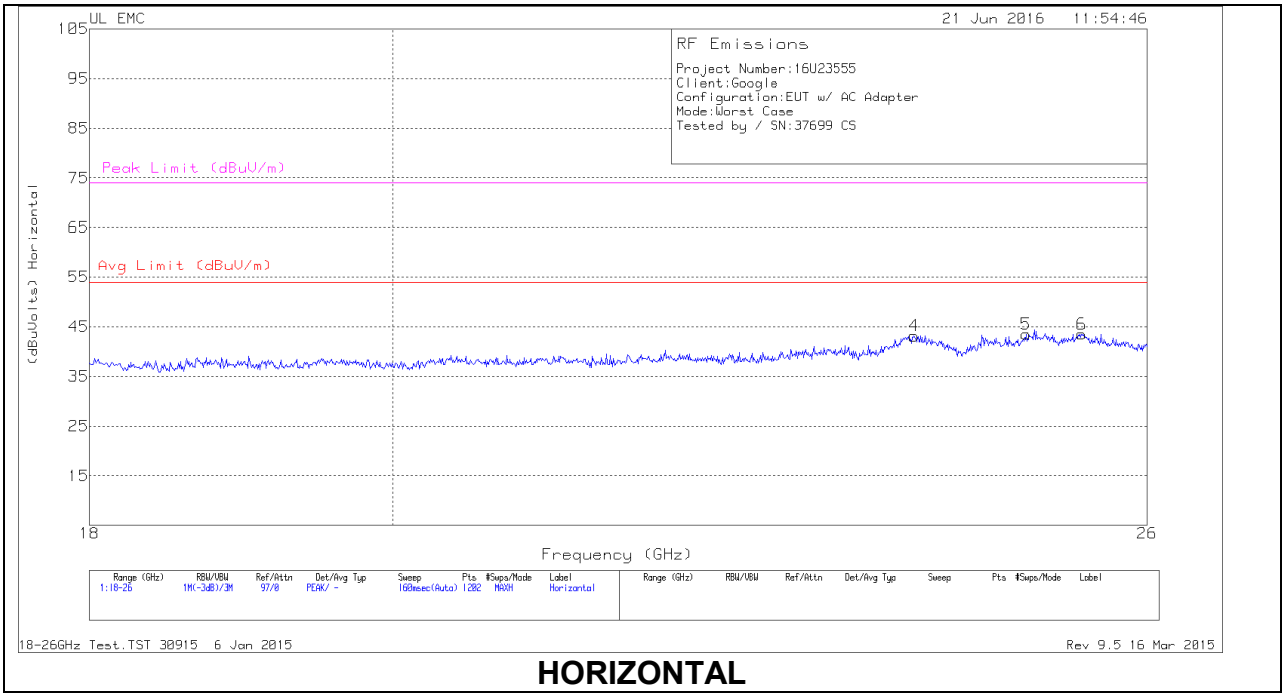
Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 400	36.15	Pk	19.5	-26.3	29.35	46.02	-16.67	0-360	100	H
2	30.51	31.24	Pk	24.8	-28.9	27.14	40	-12.86	0-360	100	V
1	30.7225	29.28	Pk	24.6	-28.9	24.98	40	-15.02	0-360	100	H
3	200	38.54	Pk	16.5	-27.1	27.94	43.52	-15.58	0-360	100	H
4	240	36.81	Pk	15.5	-26.7	25.61	46.02	-20.41	0-360	100	H
6	904.8	28.61	Pk	26.5	-23.9	31.21	46.02	-14.81	0-360	300	V

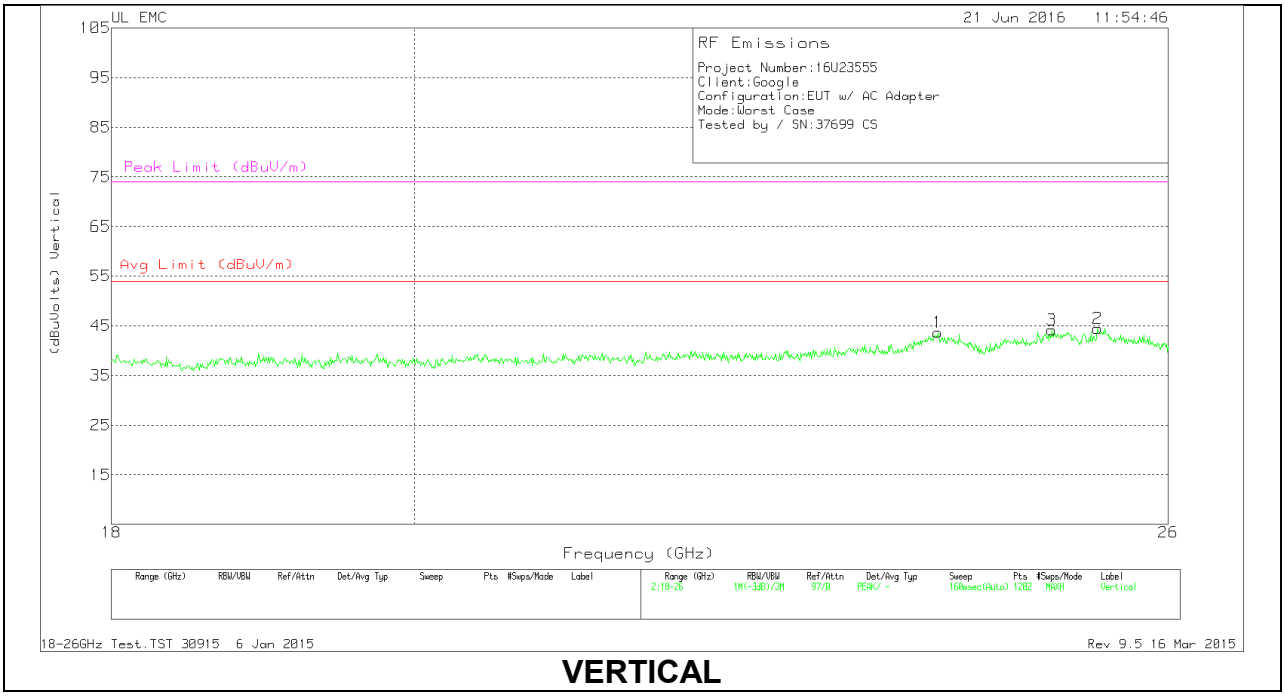
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

5.4. WORST-CASE 18 GHz – 26 GHz

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



HORIZONTAL



VERTICAL

Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
4	23.975	42.87	Pk	34	-24.2	-9.5	43.167	54	-10.833	74	-30.833
5	24.928	43.1	Pk	34.2	-24.3	-9.5	43.5	54	-10.5	74	-30.5
6	25.414	43	Pk	34.3	-24.3	-9.5	43.5	54	-10.5	74	-30.5
1	23.995	43.57	Pk	34	-24.4	-9.5	43.667	54	-10.333	74	-30.333
2	25.367	44.3	Pk	34.3	-24.6	-9.5	44.5	54	-9.5	74	-29.5
3	24.968	43.67	Pk	34.2	-24.2	-9.5	44.167	54	-9.8333	74	-29.833

Pk - Peak detector

6. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

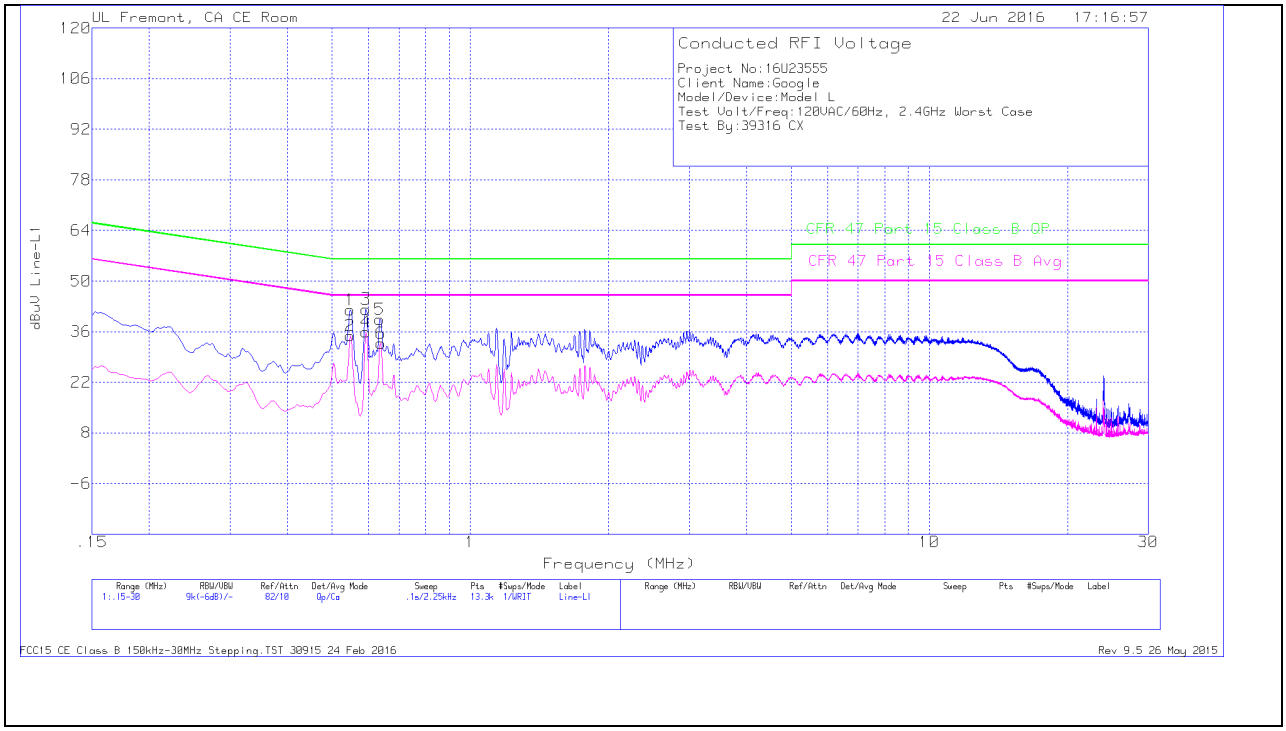
Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

RESULTS

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

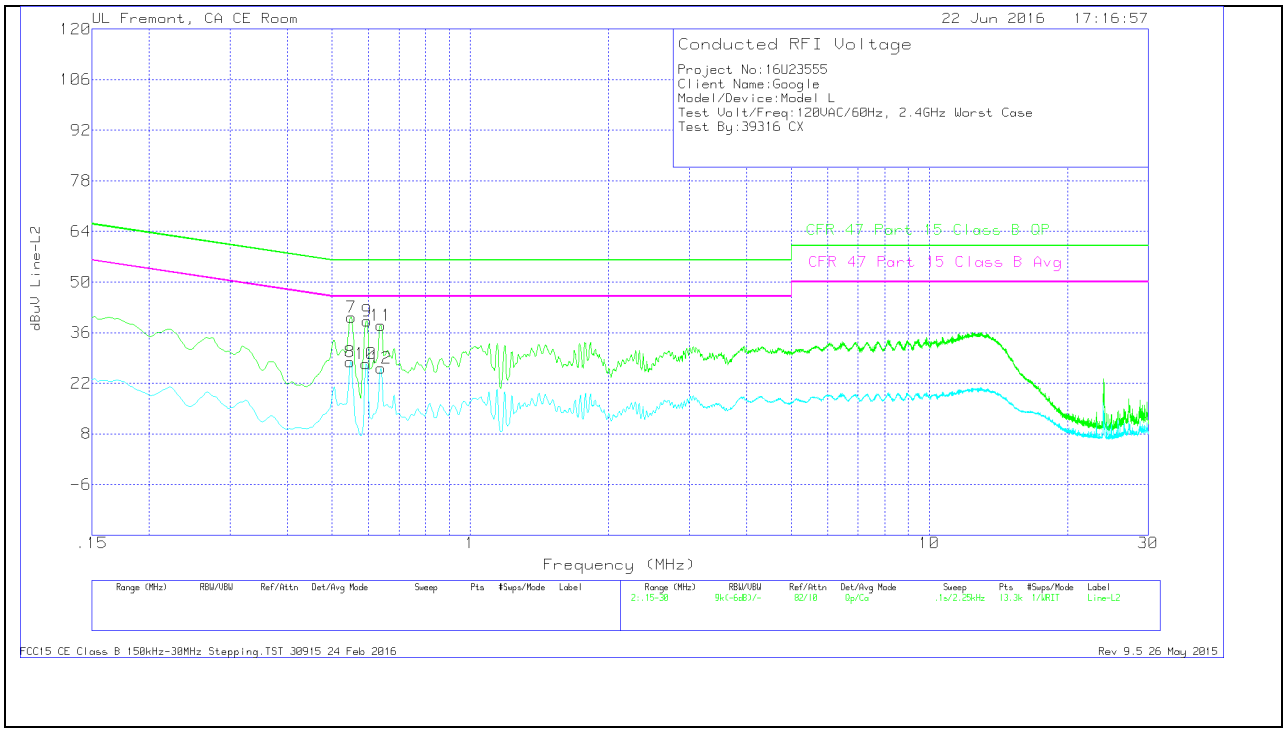
LINE 1 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.54825	31.94	Qp	0	0	10.1	42.04	56	-13.96	-	-
2	.54825	24.82	Ca	0	0	10.1	34.92	-	-	46	-11.08
3	.59325	32.16	Qp	0	0	10.1	42.26	56	-13.74	-	-
4	.59325	25.74	Ca	0	0	10.1	35.84	-	-	46	-10.16
5	.636	29.24	Qp	0	0	10.1	39.34	56	-16.66	-	-
6	.63825	22.63	Ca	0	0	10.1	32.73	-	-	46	-13.27

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
7	.5505	30.22	Qp	0	0	10.1	40.32	56	-15.68	-	-
8	.54825	17.83	Ca	0	0	10.1	27.93	-	-	46	-18.07
9	.5955	29.1	Qp	0	0	10.1	39.2	56	-16.8	-	-
10	.59325	17.23	Ca	0	0	10.1	27.33	-	-	46	-18.67
11	.63825	27.9	Qp	0	0	10.1	38	56	-18	-	-
12	.63825	16.12	Ca	0	0	10.1	26.22	-	-	46	-19.78

Qp - Quasi-Peak detector
Ca - CISPR average detection