



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

**B-MODE RADIATED EMISSION  
TEST REPORT**

**FOR**

**CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS**

**MODEL NUMBER: A1785**

**FCC ID: BCG-E3088A  
IC: 579C-E3088A**

**REPORT NUMBER: 16U23308-E4V2**

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**NVLAP LAB CODE 200065-0**

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	07/30/2016	Initial Issue	Chin Pang
V1	08/02/2016	Revised report to address TCB questions	Tina Chu

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## 1. ATTESTATION OF TEST RESULTS

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

**EUT DESCRIPTION:** CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

**MODEL:** A1785

**SERIAL NUMBER:** C39RW01QHFML (RADIATED)

**DATE TESTED:** JULY 20-23, 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.

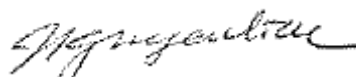
**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. 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  
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CHIN PANG  
SENIOR ENGINEER  
UL VERIFICATION SERVICES INC.

Prepared By:



LIEU NGUYEN  
EMC ENGINEER  
UL VERIFICATION SERVICES INC.

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 558074 D01 v03r05, ANSI C63.10-2013, RSS-GEN Issue 4, and RSS-247 Issue 1.

## 3. FACILITIES AND ACCREDITATION

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

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

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

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

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

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

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT Model A1785 is a mobile phone with multimedia functions (music, application support, and video), cellular GSM/GPRS/EGPRS/CDMA/WCDMA/HSPA+/DC-HSDPA/LTE-radio, IEEE 802.11a/b/g/n/ac, NFC and Bluetooth radio. The rechargeable battery is not user accessible.

### 5.2. MAXIMUM OUTPUT POWER

Please refer to FCC ID: BCG-E3088A

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Band (GHz)	Antenna Gain (dBi)	
	Chain 0	Chain 1
2.4	-2.21	-4.13

### 5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 9.44.11.27.

### 5.5. WORST-CASE CONFIGURATION AND MODE

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

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

802.11b mode: 1 Mbps

## 5.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Apple	MacBook Pro	W885200F70K	NA
Laptop Power Supply	Apple	A1343	C0420640G9KDJ92BD	NA

### I/O CABLES (RADIATED ABOVE 1 GHZ)

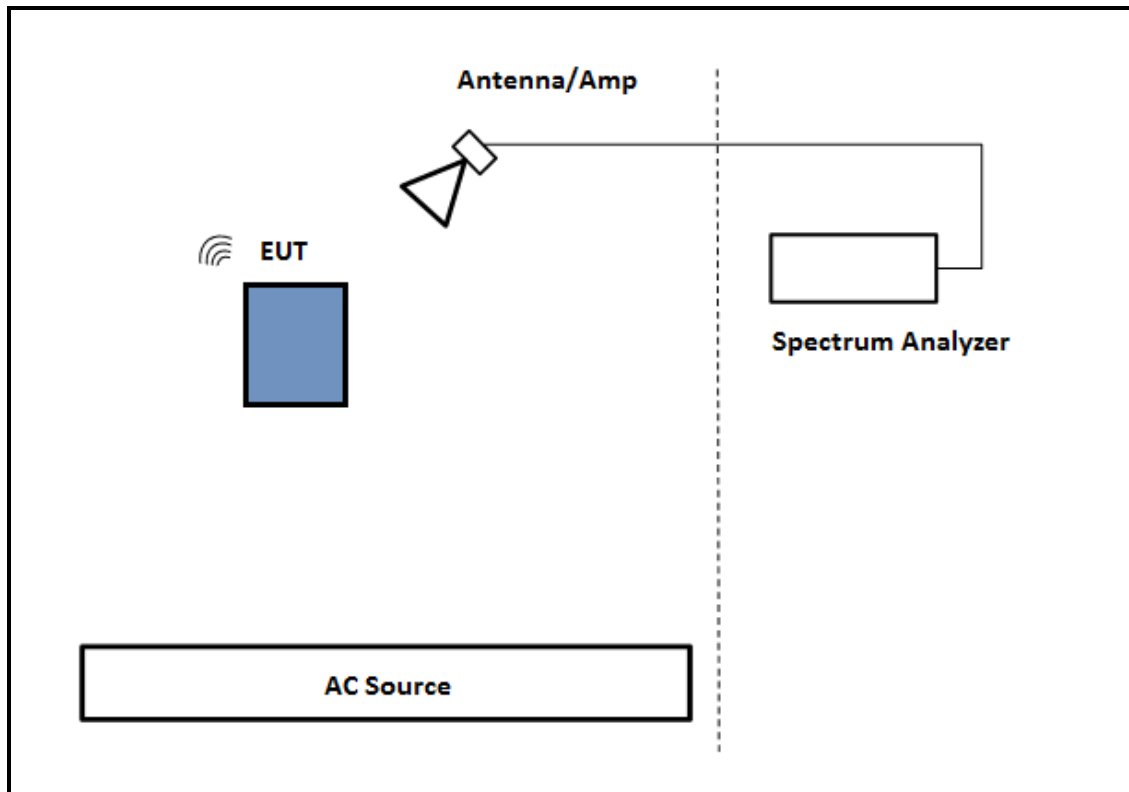
I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
None Used						



### **TEST SETUP- RADIATED-ABOVE 1 GHZ**

The battery powered EUT was tested as a standalone unit. Test software exercised the EUT.

### **SETUP DIAGRAM**



## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	1782158	1/25/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	MY52350675	11/15/2016
Power Meter, P-series single channel	Agilent	N1911A	GB45100212	9/25/2016
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Agilent	N1921A	MY53260010	7/8/2016
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826	209336	5/26/2017
Spectrum Analyzer, 40 GHz	Agilent	8564E	3943A01643	8/14/2016
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Keysight	8449B	3008A04710	7/5/2017
UL SOFTWARE				
* Radiated Software	UL	UL EMC	Ver 9.5, June 24, 2015	

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

## 7. MEASUREMENT METHODS

Output Power: KDB 558074 D01 v03r05, Section 9.1.2.

Radiated Spurious Emission: KDB 558074 D01 v03r05, Section 12.1

## 8. RADIATED TEST RESULTS

### 8.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

#### TEST PROCEDURE

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

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

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

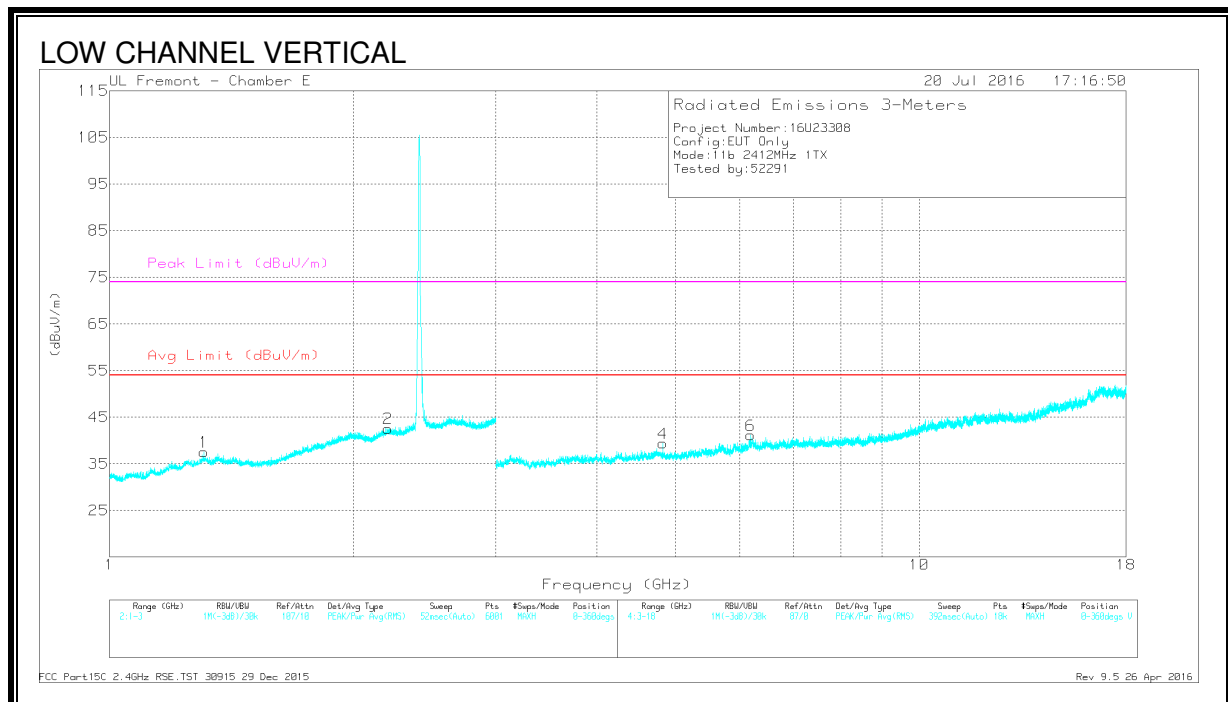
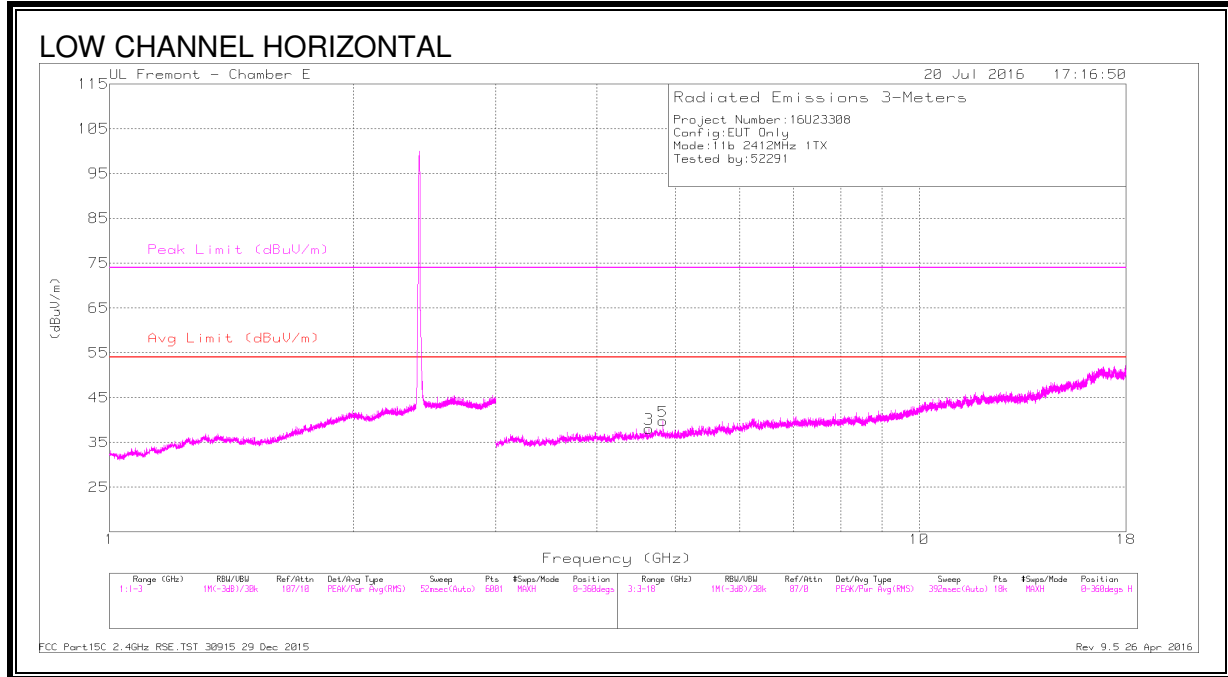
For 2.4 GHz band, the spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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

## 8.2. TRANSMITTER ABOVE 1 GHz

### 8.2.1. 802.11b 1Tx MODE IN THE 2.4 GHz BAND CHAIN 0

#### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL



## DATA

### Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/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	* 1.309	36.8	PK2	29.3	-22.4	43.7	-	-	74	-30.3	312	132	V
	* 1.309	25.51	MAv1	29.3	-22.4	32.41	54	-21.59	-	-	312	132	V
2	* 2.207	37.18	PK2	31.8	-20	48.98	-	-	74	-25.02	18	111	V
	* 2.206	25.97	MAv1	31.8	-20	37.77	54	-16.23	-	-	18	111	V
3	* 4.637	40.91	PK2	33.9	-30.6	44.21	-	-	74	-29.79	10	350	H
	* 4.635	30.02	MAv1	33.9	-30.6	33.32	54	-20.68	-	-	10	350	H
5	* 4.825	40.15	PK2	34	-30.1	44.05	-	-	74	-29.95	117	288	H
	* 4.824	30.03	MAv1	34	-30.1	33.93	54	-20.07	-	-	117	288	H
4	* 4.824	41.43	PK2	34	-30.1	45.33	-	-	74	-28.67	61	268	V
	* 4.824	33.75	MAv1	34	-30.1	37.65	54	-16.35	-	-	61	268	V
6	6.188	39.12	PK2	35.5	-27.7	46.92	-	-	-	-	67	338	V
	6.188	27.87	MAv1	35.5	-27.7	35.67	-	-	-	-	67	338	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

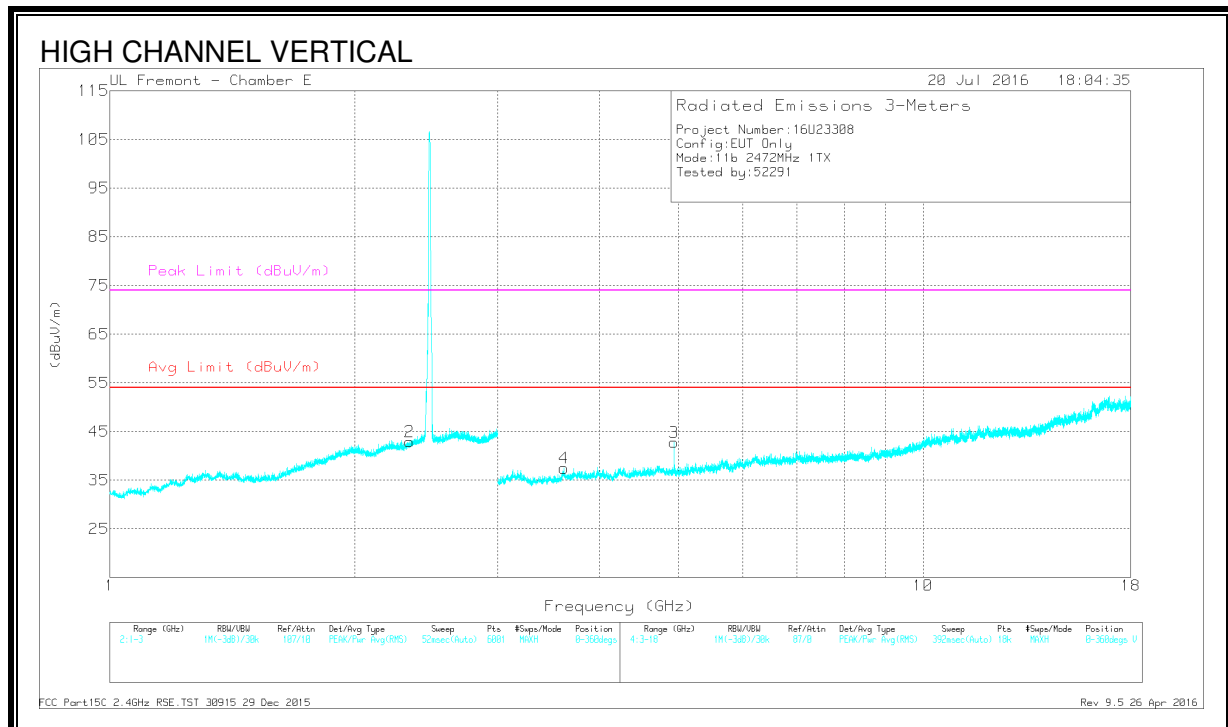
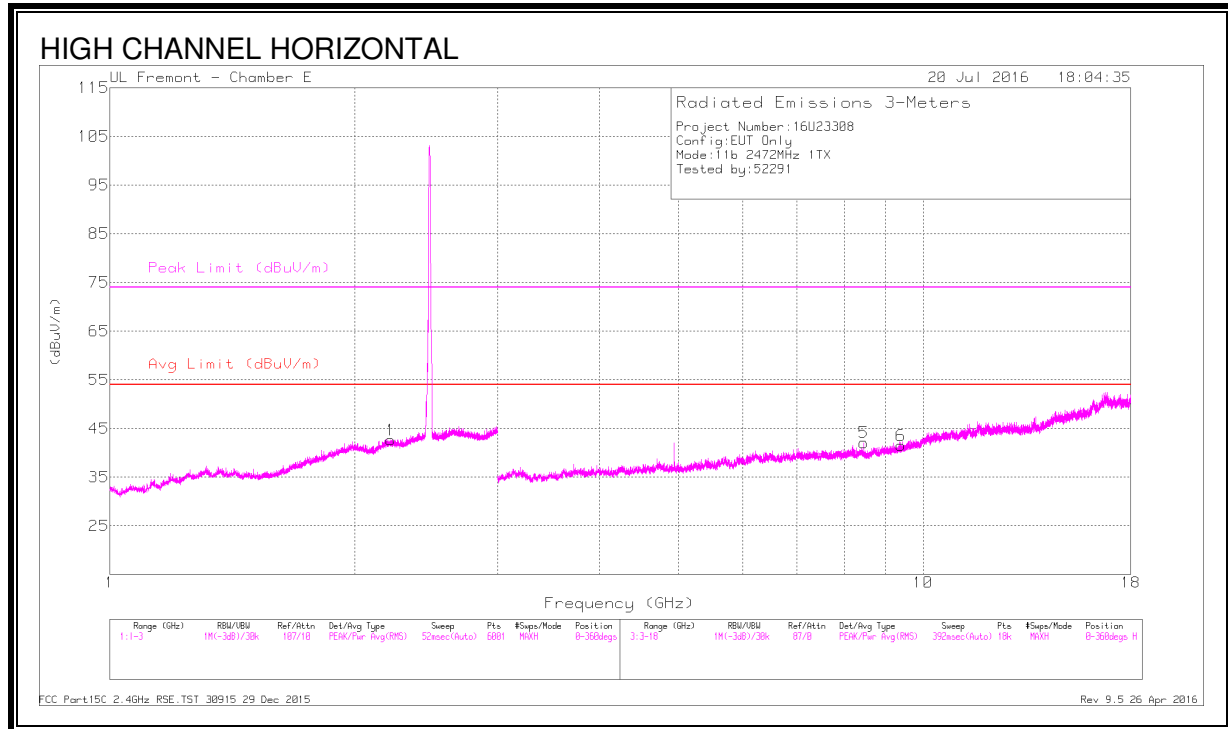
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL**



## DATA

### Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.215	37.17	PK2	31.8	-20.1	48.87	-	-	74	-25.13	349	128	H
	* 2.214	25.92	MAv1	31.8	-20.1	37.62	54	-16.38	-	-	349	128	H
2	* 2.336	37.66	PK2	31.7	-20.1	49.26	-	-	74	-24.74	215	218	V
	* 2.337	26.31	MAv1	31.7	-20.2	37.81	54	-16.19	-	-	215	218	V
5	* 8.449	37.08	PK2	35.7	-26	46.78	-	-	74	-27.22	211	262	H
	* 8.45	26.65	MAv1	35.7	-26	36.35	54	-17.65	-	-	211	262	H
6	* 9.385	37.5	PK2	36.3	-26	47.8	-	-	74	-26.2	158	214	H
	* 9.385	27.57	MAv1	36.3	-26.1	37.77	54	-16.23	-	-	158	214	H
3	* 4.944	41.95	PK2	34	-30.5	45.45	-	-	74	-28.55	197	226	V
	* 4.944	32.81	MAv1	34	-30.5	36.31	54	-17.69	-	-	197	226	V
4	* 3.618	40.43	PK2	33	-30.5	42.93	-	-	74	-31.07	12	216	V
	* 3.616	29.89	MAv1	33	-30.5	32.39	54	-21.61	-	-	12	216	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

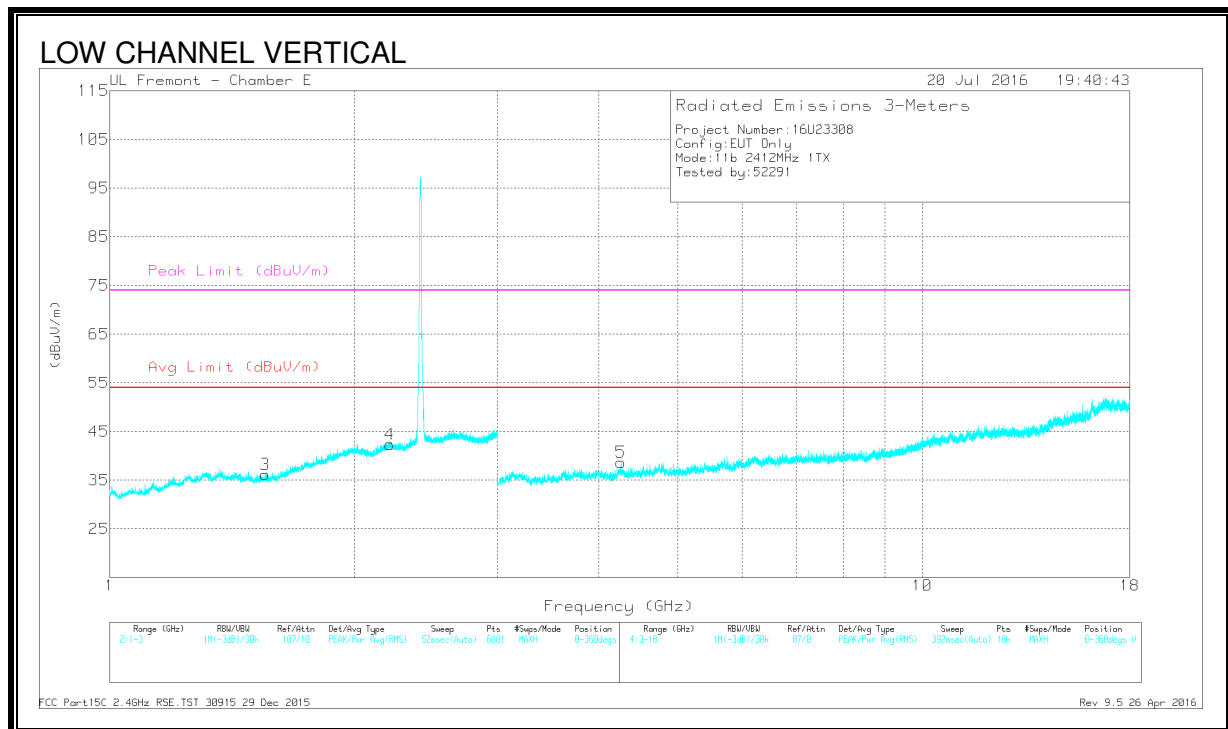
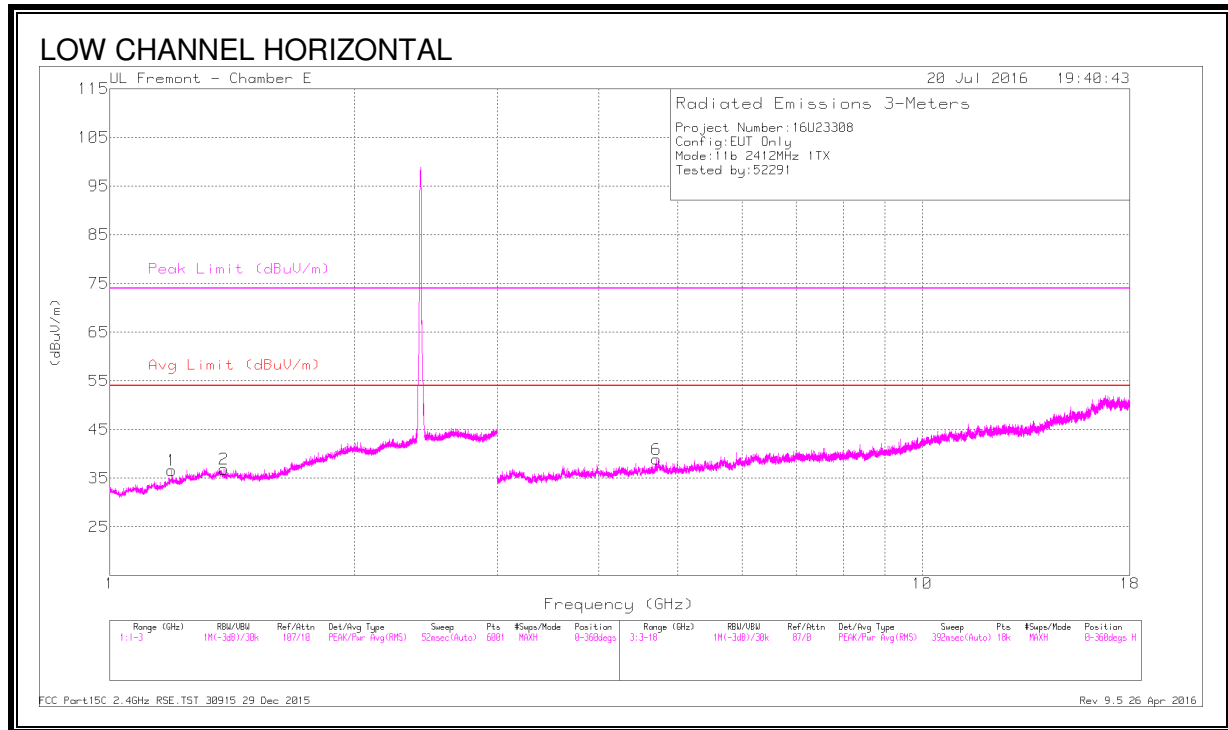
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

## 8.2.2. 802.11b 1Tx MODE IN THE 2.4 GHz BAND CHAIN 1

### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL





## DATA

### Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.194	36.35	PK2	28.5	-23.1	41.75	-	-	74	-32.25	312	110	H
	* 1.191	25.96	MAv1	28.5	-23.1	31.36	54	-22.64	-	-	312	110	H
2	* 1.383	36.5	PK2	29.1	-22.2	43.4	-	-	74	-30.6	306	120	H
	* 1.381	25.63	MAv1	29.1	-22.2	32.53	54	-21.47	-	-	306	120	H
3	* 1.554	36.91	PK2	27.8	-21.4	43.31	-	-	74	-30.69	88	150	V
	* 1.554	25.8	MAv1	27.8	-21.4	32.2	54	-21.8	-	-	88	150	V
4	* 2.213	37.14	PK2	31.8	-20	48.94	-	-	74	-25.06	100	136	V
	* 2.211	26.4	MAv1	31.8	-20	38.2	54	-15.8	-	-	100	136	V
6	* 4.712	39.84	PK2	34	-29.3	44.54	-	-	74	-29.46	128	132	H
	* 4.712	29.48	MAv1	34	-29.3	34.18	54	-19.82	-	-	128	132	H
5	* 4.259	39.15	PK2	33.3	-29	43.45	-	-	74	-30.55	98	155	V
	* 4.256	29.22	MAv1	33.3	-29	33.52	54	-20.48	-	-	98	155	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

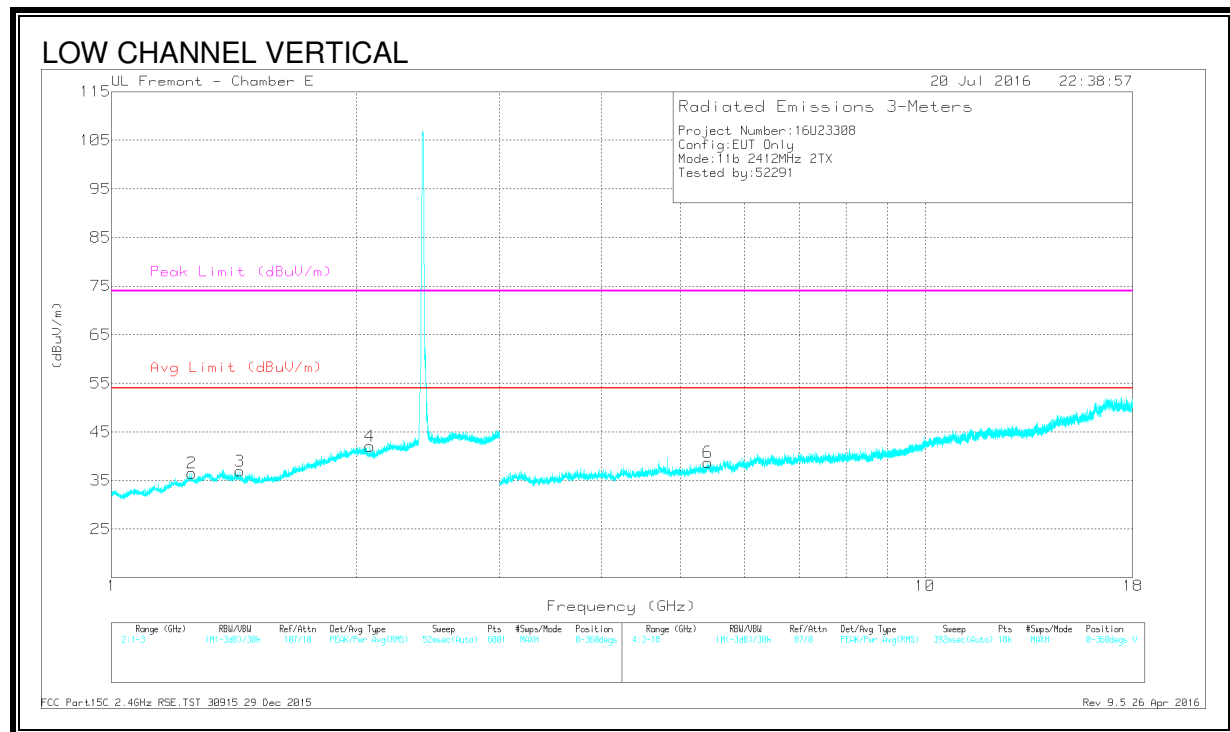
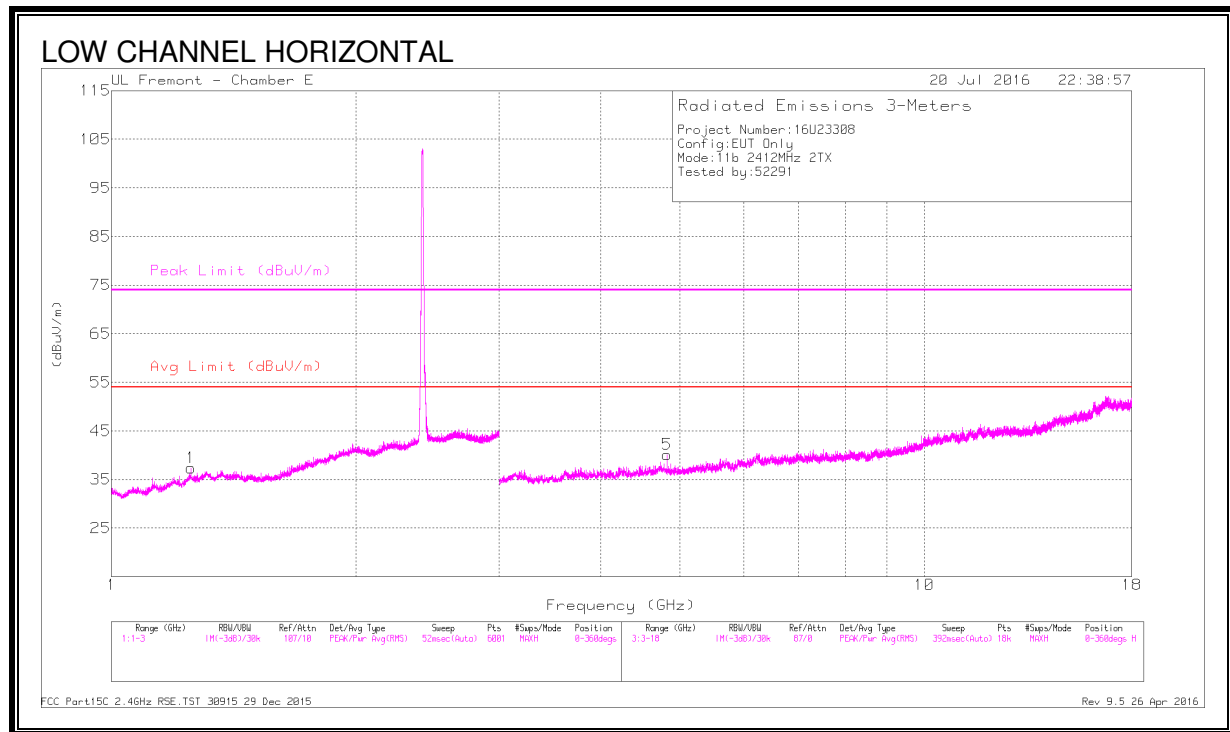
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

### 8.2.3. 802.11b 2Tx MODE IN THE 2.4 GHz BAND

#### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL



## DATA

### Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Filtr/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	* 1.253	36.85	PK2	29	-22.6	43.25	-	-	74	-30.75	59	239	H
	* 1.251	25.34	MAv1	29	-22.6	31.74	54	-22.26	-	-	59	239	H
2	* 1.255	36.57	PK2	29	-22.7	42.87	-	-	74	-31.13	87	221	V
	* 1.254	25.73	MAv1	29	-22.7	32.03	54	-21.97	-	-	87	221	V
3	* 1.439	36.45	PK2	28.5	-21.7	43.25	-	-	74	-30.75	104	208	V
	* 1.436	25.62	MAv1	28.6	-21.7	32.52	54	-21.48	-	-	104	208	V
5	* 4.824	41.71	PK2	34	-30.1	45.61	-	-	74	-28.39	105	157	H
	* 4.824	34.7	MAv1	34	-30.1	38.6	54	-15.4	-	-	105	157	H
6	* 5.405	40.31	PK2	34.4	-29.2	45.51	-	-	74	-28.49	359	372	V
	* 5.405	29.41	MAv1	34.4	-29.3	34.51	54	-19.49	-	-	359	372	V
4	2.077	26.26	MAv1	31.1	-20.7	36.66	-	-	-	-	65	186	V
	2.079	37.2	PK2	31.1	-20.7	47.6	-	-	-	-	65	186	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

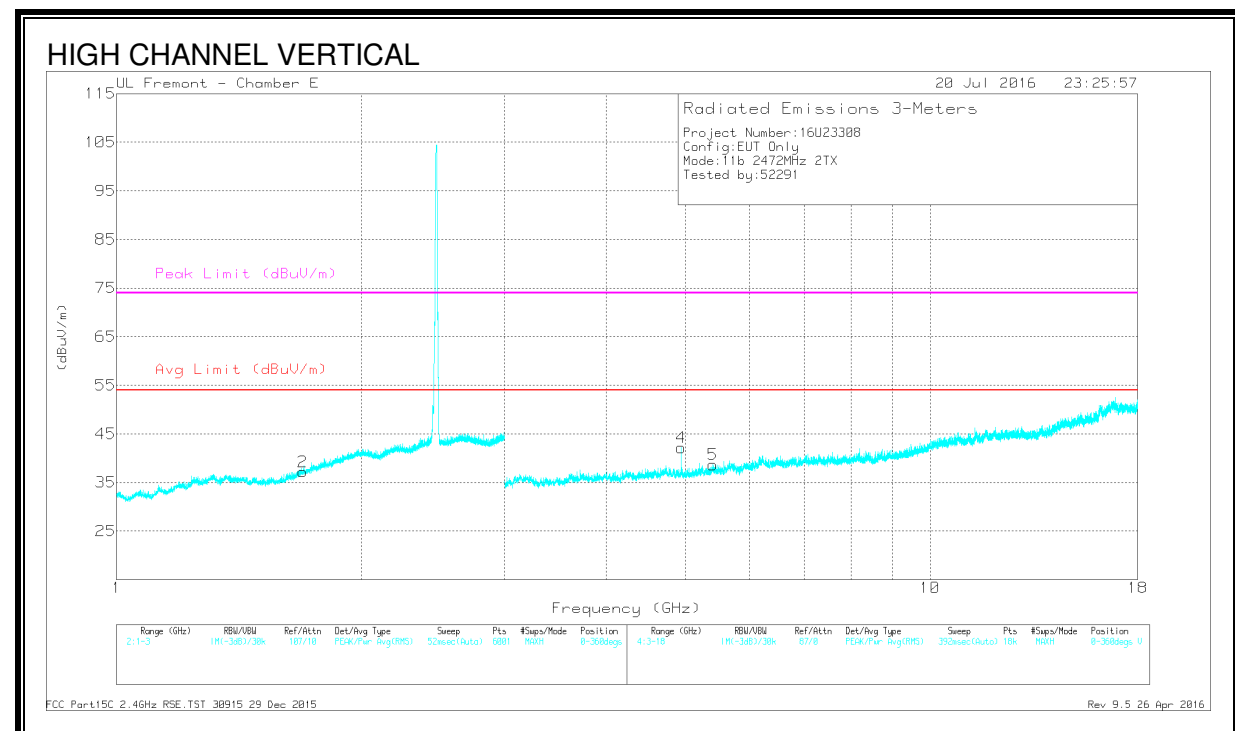
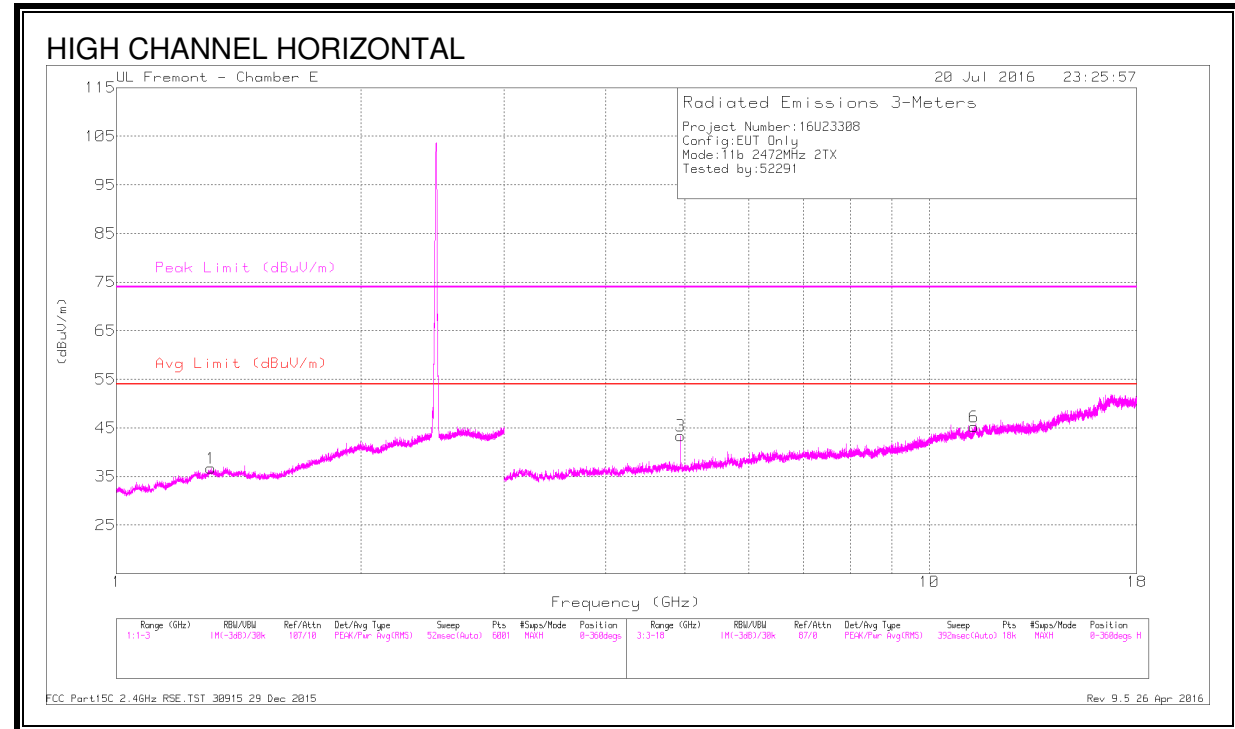
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL**



## DATA

### Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Filtr/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	* 1.306	37.02	PK2	29.3	-22.5	43.82	-	-	74	-30.18	217	205	H
	* 1.308	25.28	MAv1	29.3	-22.4	32.18	54	-21.82	-	-	217	205	H
2	* 1.694	36.11	PK2	29.1	-21.1	44.11	-	-	74	-29.89	234	183	V
	* 1.693	25.13	MAv1	29	-21.1	33.03	54	-20.97	-	-	234	183	V
3	* 4.944	45.22	PK2	34	-30.5	48.72	-	-	74	-25.28	156	160	H
	* 4.944	39.83	MAv1	34	-30.5	43.33	54	-10.67	-	-	156	160	H
6	* 11.352	36.1	PK2	38.2	-23.2	51.1	-	-	74	-22.9	144	188	H
	* 11.354	26.43	MAv1	38.2	-23.2	41.43	54	-12.57	-	-	144	188	H
4	* 4.944	43.55	PK2	34	-30.5	47.05	-	-	74	-26.95	179	103	V
	* 4.944	36.57	MAv1	34	-30.5	40.07	54	-13.93	-	-	179	103	V
5	* 5.409	40.05	PK2	34.4	-29.3	45.15	-	-	74	-28.85	77	165	V
	* 5.411	30.04	MAv1	34.4	-29.4	35.04	54	-18.96	-	-	77	165	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

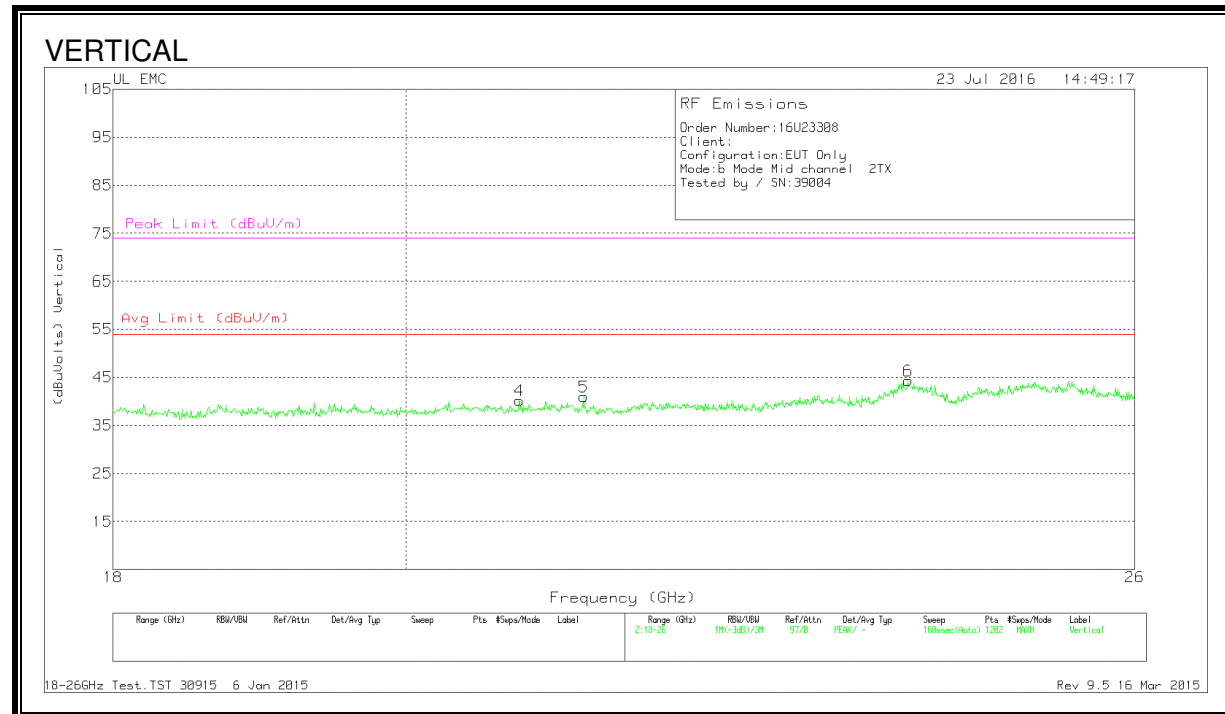
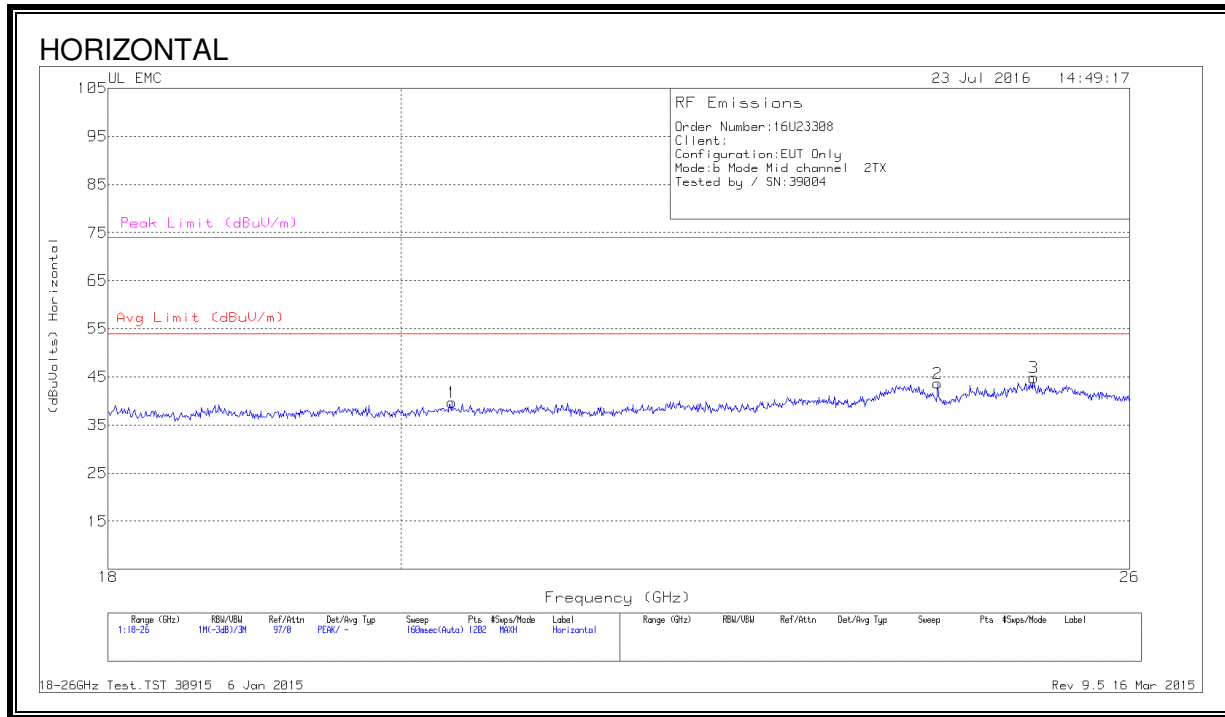
MAv1 - KDB558074 Option 1 Maximum RMS Average

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### 8.3. WORST-CASE 18 to 26 GHz

#### SPURIOUS EMISSIONS 18 to 26 GHz



## **DATA**

### Trace Markers

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)
1	20.371	41.37	Pk	32.9	-25.1	-9.5	39.67	54	-14.33	74	-34.33
2	24.261	43.57	Pk	33.8	-24.2	-9.5	43.67	54	-10.33	74	-30.33
3	25.114	44.53	Pk	34.3	-24.5	-9.5	44.83	54	-9.17	74	-29.17
4	20.834	41.87	Pk	33	-25.2	-9.5	40.17	54	-13.83	74	-33.83
5	21.324	42.5	Pk	33.1	-25.1	-9.5	41	54	-13	74	-33
6	23.962	44.03	Pk	34	-24.2	-9.5	44.333	54	-9.67	74	-29.67

Pk - Peak detector

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