



**FCC CFR47 PART 15 SUBPART C
C2PC CERTIFICATION TEST REPORT
FOR**

GSM/WCDMA/LTE Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT +

MODEL NUMBER: SM-T805

FCC ID: A3LSMT805

REPORT NUMBER: 14U17572-4 REVISION A

ISSUE DATE: May 21, 2014

Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	4/25/14	Initial Issue	P. Kim
A	5/21/14	Updated antenna information	P. Zhang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA

EUT DESCRIPTION: GSM/WCDMA/LTE Tablet + Bluetooth, DTS/UNII a/b/g/n/ac &
ANT+

MODEL: SM-T805

SERIAL NUMBER: R32F203DVSN (RADIATED)

DATE TESTED: APRIL 15 - 26, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

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

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

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LAB 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, ANSI C63.4-2009.

3. FACILITIES AND ACCREDITATION

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

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+.

5.2. MAXIMUM OUTPUT POWER

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

Frequency Range (MHz)	Mode	Total Output Power (dBm)	Total Output Power (mW)
2412 - 2462	802.11b	19.31	85.31
2412 - 2462	802.11g	24.07	255.27
2412 - 2462	802.11n HT20	23.63	230.67
5745-5825	802.11a	20.38	109.14
5745-5825	802.11n HT20	20.68	116.95
5755-5795	802.11n HT40	21.03	126.77
5755-5795	802.11ac HT80	21.85	153.11

The transmitter has a average conducted output power as follows:

Band (GHz)	No. of Transmitters	Mode	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)		
						Wi-Fi 1	Wi-Fi 2	
2.4	1 Tx	802.11b	1 Mbps	1	2412	13.7		
				6	2437	14.3		
				11	2462	13.6		
				1	2412		12.7	
				6	2437		13.4	
				11	2462		12.8	
	2 Tx			1	2412	13.7	12.7	
				6	2437	14.3	13.4	
				11	2462	13.7	12.8	
	1 Tx	802.11g	6 Mbps	1	2412	11.9		
				6	2437	12.5		
				11	2462	12.0		
				1	2412		10.9	
				6	2437		11.6	
				11	2462		11.2	
				2 Tx	1	2412	11.9	11.0
					6	2437	12.5	11.6
					11	2462	12.0	11.3
	1 Tx	802.11n (HT20)	MCS0	1	2412	10.7		
				6	2437	11.3		

				11	2462	11.0	
				1	2412		9.5
				6	2437		10.2
				11	2462		9.7
	2 Tx			1	2412	11.0	9.8
				6	2437	11.3	10.2
				11	2462	11.0	9.8

Band (GHz)	Mode	Mode	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)	
						Wi-Fi 1	Wi-Fi 2
5.8 (DTS)	1 Tx	802.11a	6 Mbps	149	5745	9.6	
				157	5785	9.5	
				165	5825	9.4	
				149	5745		9.9
				157	5785		9.7
				165	5825		9.6
				149	5745	10.5	10.5
				157	5785	10.4	10.5
				165	5825	10.4	10.4
	2 Tx	802.11n (HT20)	MCS0	149	5745	10.3	
				157	5785	10.2	
				165	5825	10.2	
				149	5745		9.6
				157	5785		9.6
				165	5825		9.5
				149	5745	10.3	10.4
				157	5785	10.2	10.3
				165	5825	10.2	10.3
	1 Tx	802.11n (HT40)	MCS0	151	5755	10.4	
				159	5795	10.3	
				151	5755		9.8
				159	5795		9.7
				151	5755	10.4	10.0
				159	5795	10.3	10.2
	2 Tx	802.11ac (20 MHz)	MCS0	149	5745	10.3	
				157	5785	10.3	
				165	5825	10.2	
				149	5745		9.6
				157	5785		9.6
				165	5825		9.6
				149	5745	10.3	10.4
				157	5785	10.3	10.3
				165	5825	10.2	10.3
	1 Tx	802.11ac (40 MHz)	MCS0	151	5755	10.4	
				159	5795	10.3	
				151	5755		9.8

				159	5795		9.8
	2 Tx			151	5755	10.4	10.0
				159	5795	10.3	10.2
	1 Tx	802.11ac (80 MHz)	MCS0	155	5775	10.3	
				155	5775		10.5
	2 Tx			155	5775	10.3	10.5

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two FPCB antennas, with maximum gain of 0.19 dBi for 2.4GHz and 1.35 dBi for 5.8GHz; -4.24dBi for 2.4GHz and -2.01dBi for 5.8GHz

5.4. List of test reduction and modes covering other modes:

2400 - 2483.5 MHz Authorized Frequency Band (Antenna Port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
2412 - 2462	802.11b Legacy 1TX	802.11b CDD 2TX
2412 - 2462	802.11g Legacy 1TX	802.11g CDD 2TX
2412 - 2462	802.11n 1TX	802.11n HT20 CDD 2TX
2412 - 2462	802.11n STBC 2TX	802.11n HT20 CDD 2TX
2412 - 2462	802.11n HT40 1TX	802.11n HT40 CDD 2TX
2412 - 2462	802.11n HT40 STBC 2TX	802.11n HT40 CDD 2TX

5725 - 5850 MHz Authorized Frequency Band (Antenna Port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5745 - 5825	802.11a Legacy 1TX	802.11a CDD 2TX
5745 - 5825	802.11n HT20 1TX	802.11n HT20 CDD 2TX
5745 - 5825	802.11n HT20 STBC 2TX	802.11n HT20 CDD 2TX
5755 - 5795	802.11n HT40 1TX	802.11n HT40 CDD 2TX
5755 - 5795	802.11n HT40 STBC 2TX	802.11n HT40 CDD 2TX
5775	802.11ac VHT80 1TX	802.11ac VHT80 CDD 2TX
5775	802.11ac VHT80 STBC 2TX	802.11ac VHT80 CDD 2TX

5.5. WORST-CASE CONFIGURATION AND MODE

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

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

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

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0
802.11ac VHT80mode: MCS0

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

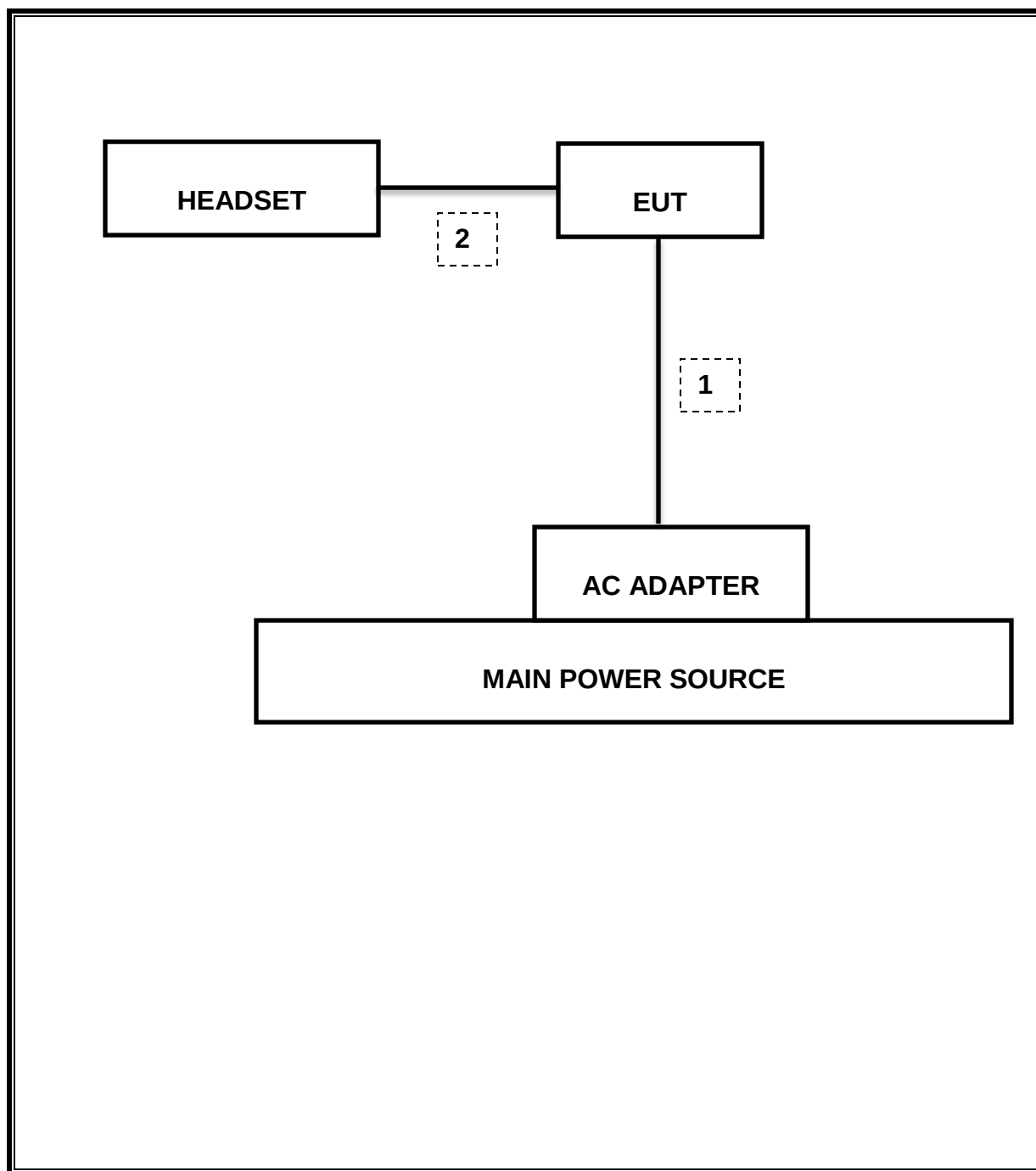
Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	Samsung	N/A	N/A
Earphone	Samsung	Samsung	N/A	N/A

I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

The EUT is a stand-alone unit during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS

6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
Spectrum Analyzer, 9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/14
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn, 18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/14
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/14
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/14
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/14
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/14
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/14
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/14
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/14

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r01:Measurement Procedure PK2 is used for power and PKPSD is used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

8.1. ON TIME AND DUTY CYCLE RESULTS (From original)

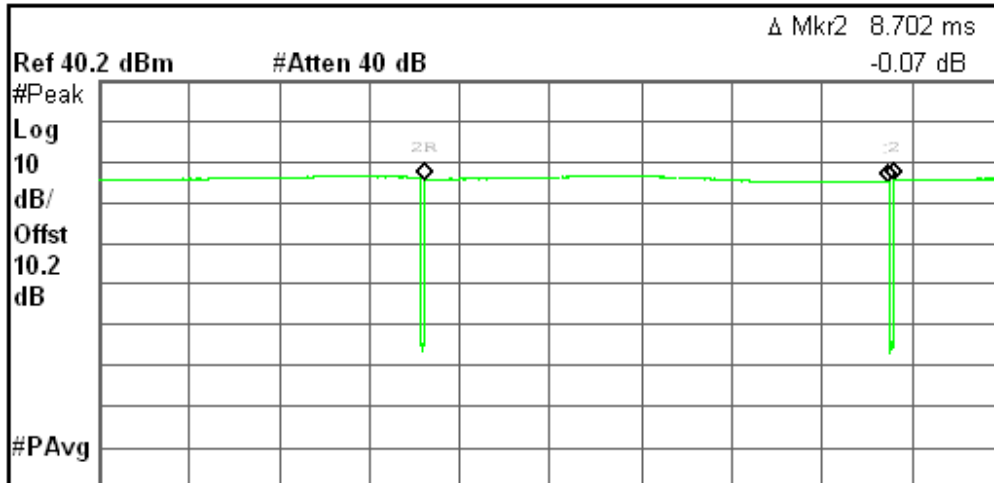
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b CDD	8.585	8.702	0.987	98.66%	0.06	0.010
802.11g CDD	1.415	1.530	0.925	92.48%	0.34	0.010
802.11n HT20 CDD	0.696	0.798	0.872	87.22%	0.59	0.010
5GHz Band						
802.11a CDD	1.420	1.525	0.931	93.11%	0.31	0.010
802.11n HT20 CDD	0.690	0.795	0.868	86.79%	0.62	0.010
802.11n HT40 CDD	0.3600	0.4640	0.776	77.59%	1.10	2.155
802.11ac VHT80 CDD	0.1920	0.2920	0.658	65.75%	1.82	3.425

2.4 B mode

Agilent 21:58:56 Feb 7, 2014

R T

Freq/Channel



Center Freq
2.43700000 GHz

Start Freq
2.43700000 GHz

Stop Freq
2.43700000 GHz

CF Step
8.00000000 MHz
Auto Man

Center 2.437 000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 16.8 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	6.065 ms	15.96 dBm
1Δ	(1)	Time	8.585 ms	-0.52 dB
2R	(1)	Time	6.065 ms	15.96 dBm
2Δ	(1)	Time	8.702 ms	-0.07 dB

Signal Track
On Off

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2.4 G mode

Agilent 22:00:29 Feb 7, 2014

R T

Freq/Channel

Ref 40.2 dBm

#Atten 40 dB

Δ Mkr2 1.53 ms

0.27 dB

#Peak

Log

10

dB/

Offst

10.2

dB

#PAvg

Center 2.437 000 GHz

Res BW 8 MHz

#VBW 50 MHz

Span 0 Hz

Sweep 5 ms (1001 pts)

Center Freq
2.43700000 GHz

Start Freq
2.43700000 GHz

Stop Freq
2.43700000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	2.46 ms	14.01 dBm
1Δ	(1)	Time	1.415 ms	0.89 dB
2R	(1)	Time	2.465 ms	13.78 dBm
2Δ	(1)	Time	1.53 ms	0.27 dB

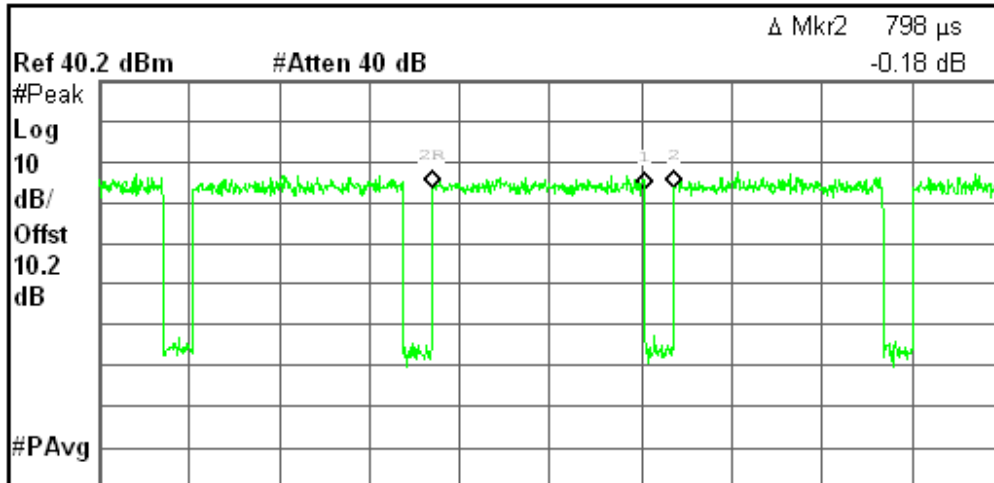
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2.4 N mode

Agilent 22:03:12 Feb 7, 2014

R T

Freq/Channel



Center Freq
2.43700000 GHz

Start Freq
2.43700000 GHz

Stop Freq
2.43700000 GHz

CF Step
8.00000000 MHz
Auto Man

Center 2.437 000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 3 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	1.11 ms	14.09 dBm
1 Δ	(1)	Time	696 μ s	-0.56 dB
2R	(1)	Time	1.11 ms	14.09 dBm
2 Δ	(1)	Time	798 μ s	-0.18 dB

Signal Track
On Off

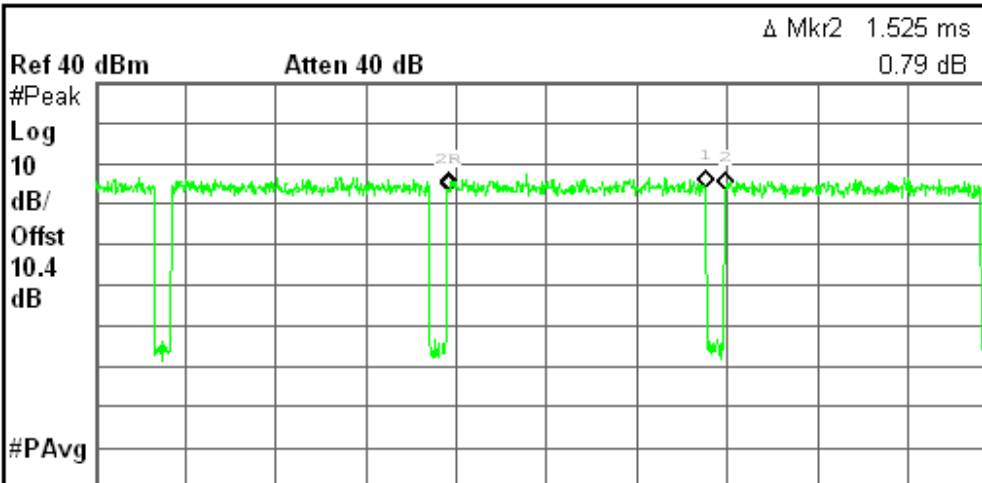
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5.8 A mode

Agilent 20:19:30 Feb 10, 2014

R T

Freq/Channel



Center Freq
5.78500000 GHz

Start Freq
5.78500000 GHz

Stop Freq
5.78500000 GHz

CF Step
8.00000000 MHz
Auto Man

Center 5.785 000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 5 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	1.955 ms	13.42 dBm
1Δ	(1)	Time	1.42 ms	0.56 dB
2R	(1)	Time	1.96 ms	12.88 dBm
2Δ	(1)	Time	1.525 ms	0.79 dB

Signal Track
On Off

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5.8 N HT20 mode

Agilent 20:17:59 Feb 10, 2014

R T

Freq/Channel

Ref 40 dBm

Atten 40 dB

Δ Mkr2 795 μ s
-1.32 dB

Center Freq
5.78500000 GHz

#Peak

Log

10

dB/

Offst

10.4

dB

Start Freq
5.78500000 GHz

Stop Freq
5.78500000 GHz

CF Step
8.00000000 MHz
Auto Man

#PAvg

Center 5.785 000 GHz

Span 0 Hz

Res BW 8 MHz

#VBW 50 MHz

Sweep 3 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	1.065 ms	13.75 dBm
1 Δ	(1)	Time	690 μ s	-0.11 dB
2R	(1)	Time	1.065 ms	13.75 dBm
2 Δ	(1)	Time	795 μ s	-1.32 dB

Signal Track
On Off

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5.8 N HT40mode

Agilent 20:16:03 Feb 10, 2014

R T

Freq/Channel

Ref 40 dBm

Atten 40 dB

Δ Mkr2 464 μ s
-0.23 dB

Center Freq
5.75500000 GHz

#Peak

Log

10

dB/

Offst

10.4

dB

Start Freq
5.75500000 GHz

Stop Freq
5.75500000 GHz

CF Step
8.00000000 MHz
Auto Man

#PAvg

Center 5.755 000 GHz

Span 0 Hz

Res BW 8 MHz

#VBW 50 MHz

Sweep 2 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	690 μ s	5.62 dBm
1 Δ	(1)	Time	360 μ s	1.28 dB
2R	(1)	Time	690 μ s	5.62 dBm
2 Δ	(1)	Time	464 μ s	-0.23 dB

Signal Track
On Off

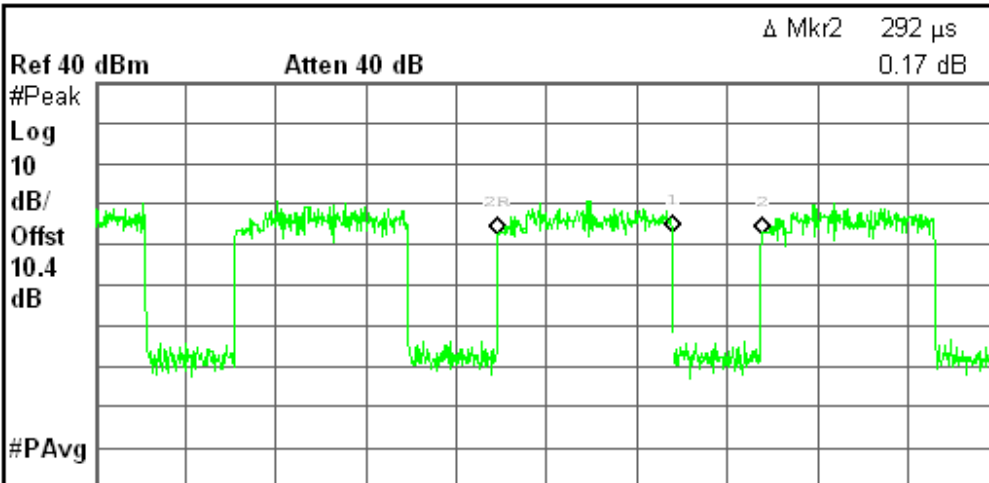
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5.8 AC VHT80 mode

Agilent 20:13:51 Feb 10, 2014

R T

Freq/Channel



Center Freq
5.77500000 GHz

Start Freq
5.77500000 GHz

Stop Freq
5.77500000 GHz

CF Step
8.00000000 MHz
Auto Man

Center 5.775 000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 1 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	446 μ s	2.48 dBm
1Δ	(1)	Time	192 μ s	0.54 dB
2R	(1)	Time	446 μ s	2.48 dBm
2Δ	(1)	Time	292 μ s	0.17 dB

Signal Track
On Off

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9. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	See original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	See original
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	See original
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	See original
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	See original
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	53.53dBuV/m

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

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

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor= $10\log(1/x)$

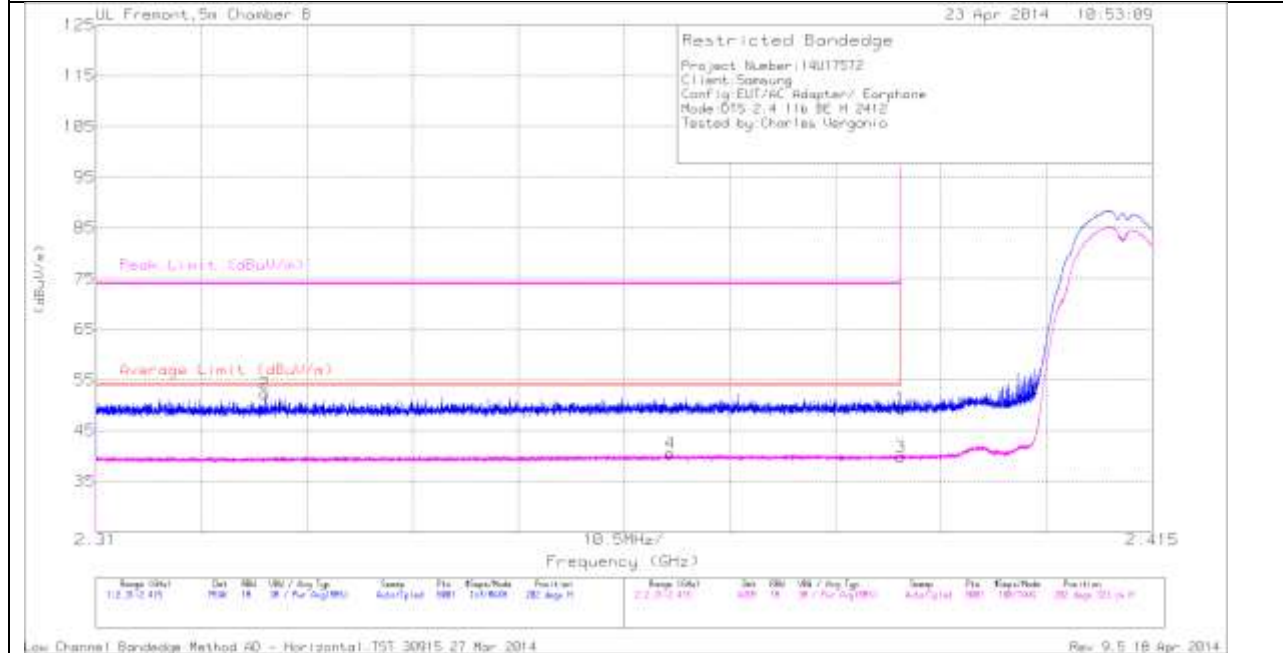
The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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

10.2. TRANSMITTER ABOVE 1 GHz

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

LOW CHANNEL RESTRICTED, PEAK & AVERAGE, HORIZ



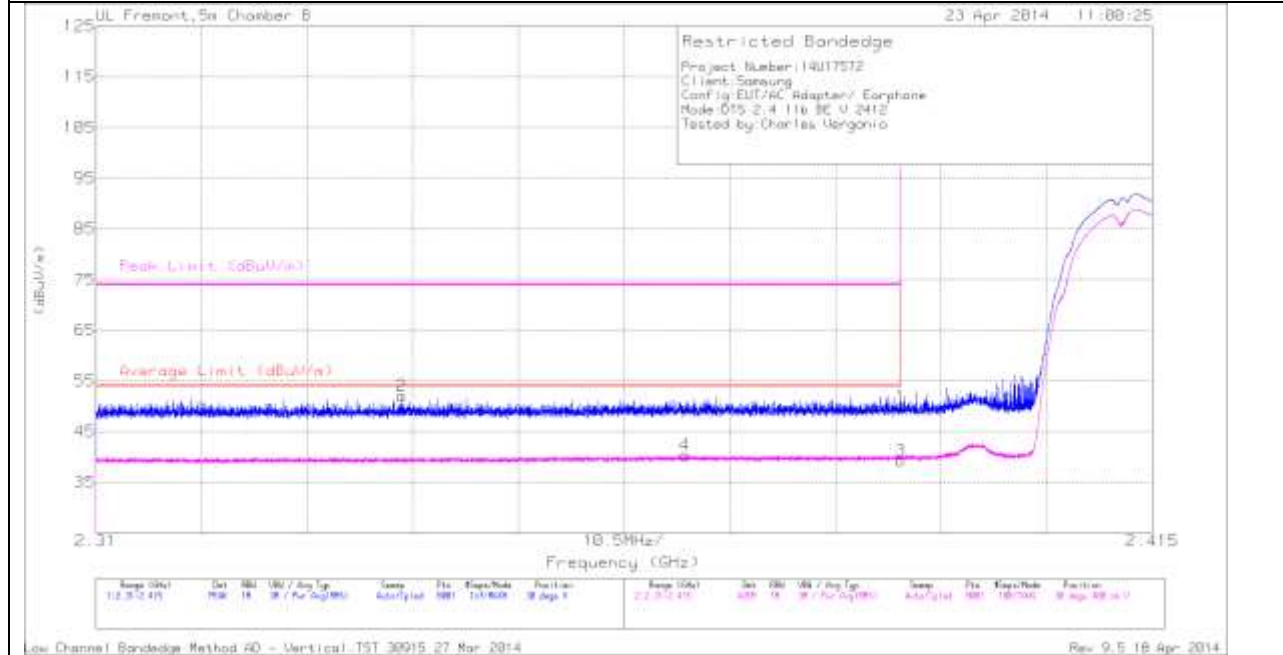
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.27	PK	32.1	-22.9	49.47	-	-	74	-24.53	202	323	H
2	* 2.327	43.62	PK	31.8	-23.1	52.32	-	-	74	-21.68	202	323	H
3	* 2.39	30.56	RMS	32.1	-22.9	39.76	54	-14.24	-	-	202	323	H
4	* 2.367	31.24	RMS	32	-22.8	40.44	54	-13.56	-	-	202	323	H

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

PK - Peak detector

RMS - RMS detection

LOW CHANNEL RESTRICTED, PEAK & AVERAGE, VERT



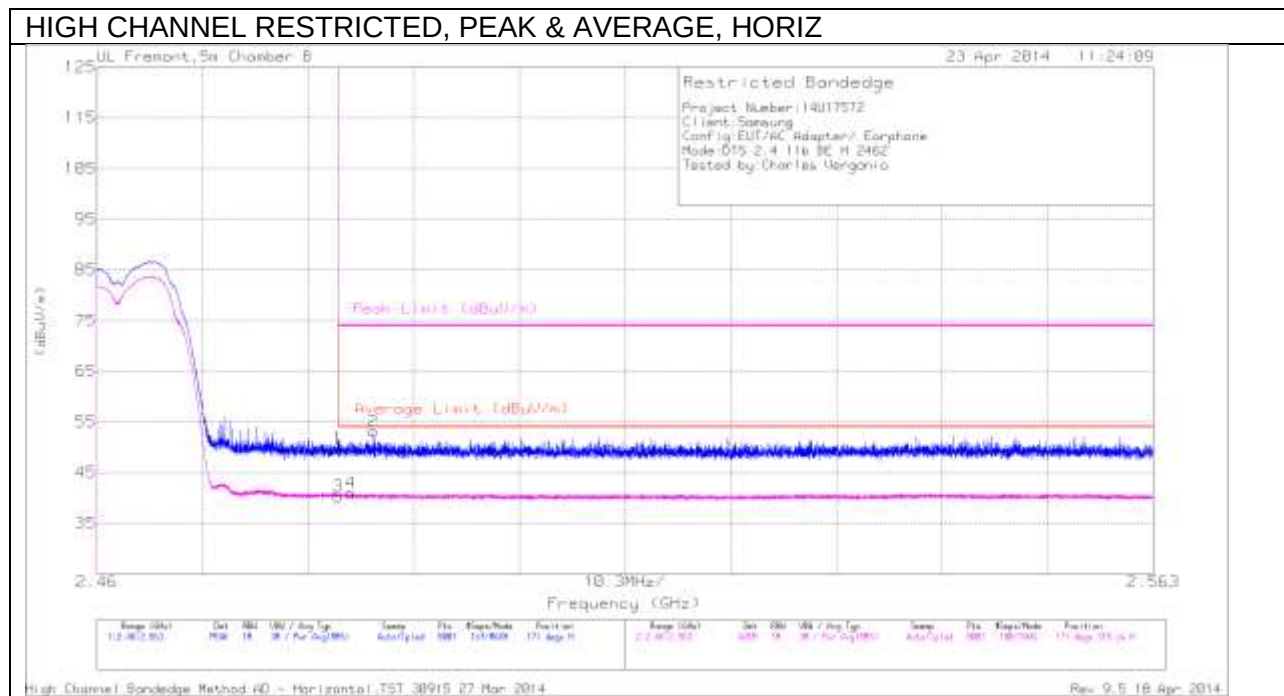
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.7	PK	32.1	-22.9	49.9	-	-	74	-24.1	30	400	V
2	* 2.34	43.3	PK	31.8	-23.1	52	-	-	74	-22	30	400	V
3	* 2.39	30.03	RMS	32.1	-22.9	39.23	54	-14.77	-	-	30	400	V
4	* 2.369	31.12	RMS	32	-22.8	40.32	54	-13.68	-	-	30	400	V

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

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



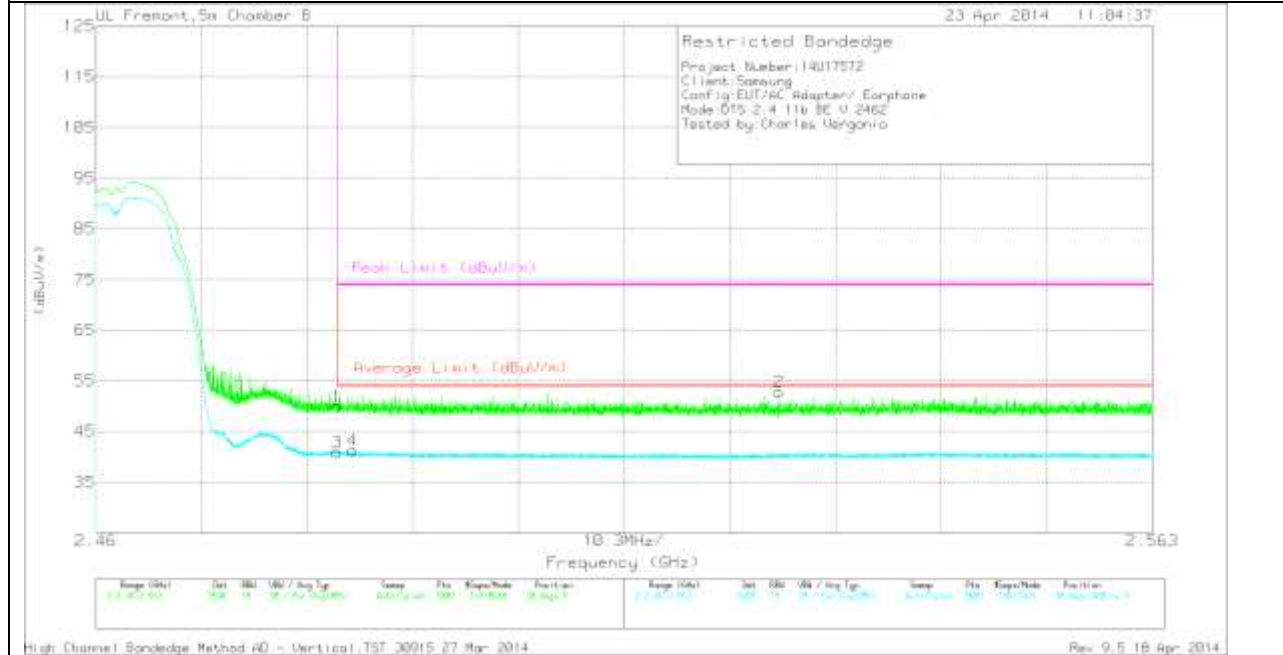
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.93	PK	32.4	-22.6	49.73	-	-	74	-24.27	171	319	H
2	* 2.487	43.31	PK	32.4	-22.6	53.11	-	-	74	-20.89	171	319	H
3	* 2.484	30.51	RMS	32.4	-22.6	40.31	54	-13.69	-	-	171	319	H
4	* 2.485	31.19	RMS	32.4	-22.6	40.99	54	-13.01	-	-	171	319	H

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

PK - Peak detector

RMS - RMS detection

HIGH CHANNEL BANDEDGE, PEAK & AVERAGE, VERT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.14	PK	32.4	-22.6	49.94	-	-	74	-24.06	30	400	V
3	* 2.484	31.03	RMS	32.4	-22.6	40.83	54	-13.17	-	-	30	400	V
4	* 2.485	31.47	RMS	32.4	-22.6	41.27	54	-12.73	-	-	30	400	V
2	2.527	42.97	PK	32.5	-22.7	52.77	-	-	74	-21.23	30	400	V

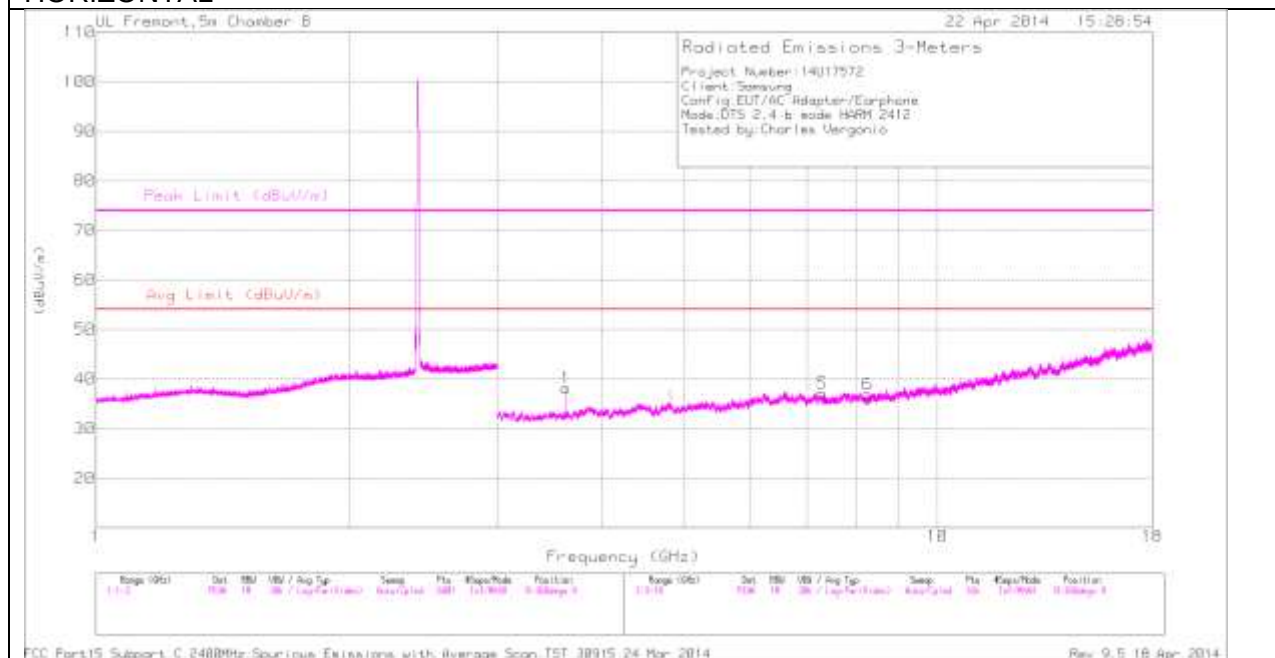
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

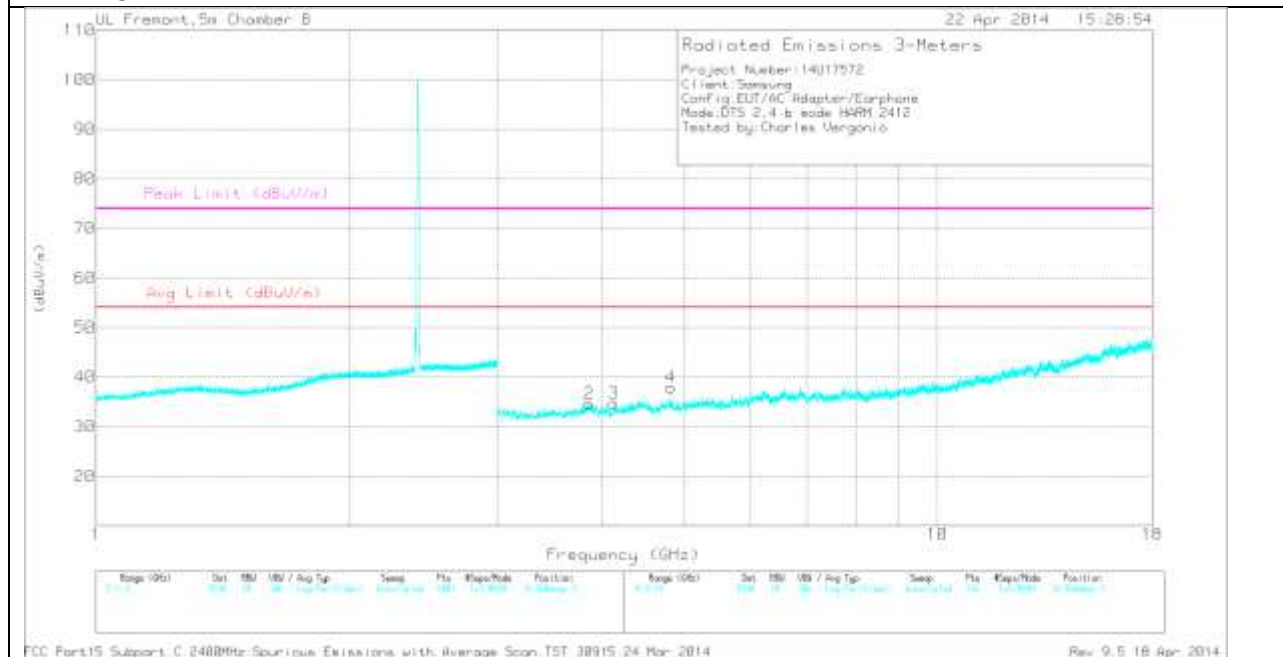
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL
VERTICAL



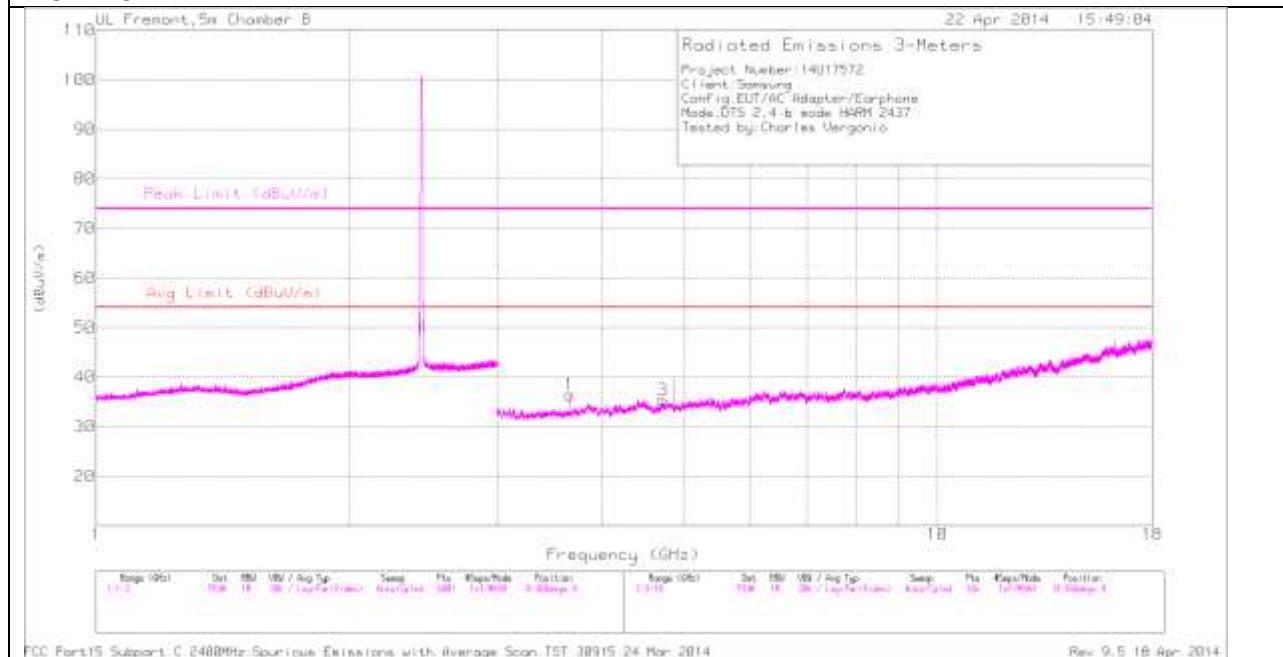
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.618	41.35	PK2	33.2	-31.2	43.35	54	-10.65	74	-30.65	360	100	H
* 3.618	30.77	MAv1	33.2	-31.2	32.77	54	-21.23	-	-	360	100	H
* 7.303	39.2	PK2	35.6	-27.8	47	54	-7.0	74	-27	360	100	H
* 8.253	36.61	PK2	35.7	-26.5	45.81	54	-8.19	74	-28.19	360	100	H
* 3.854	40.54	PK2	33.7	-30.2	44.04	54	-9.96	74	-29.96	360	100	V
* 4.127	40.3	PK2	33.6	-30.1	43.8	54	-10.2	74	-30.2	360	100	V
* 4.825	40.42	PK2	34.2	-29.4	45.22	54	-8.78	74	-28.78	360	100	V
* 4.824	29.4	MAv1	34.2	-29.3	34.3	54	-19.7	-	-	360	100	V

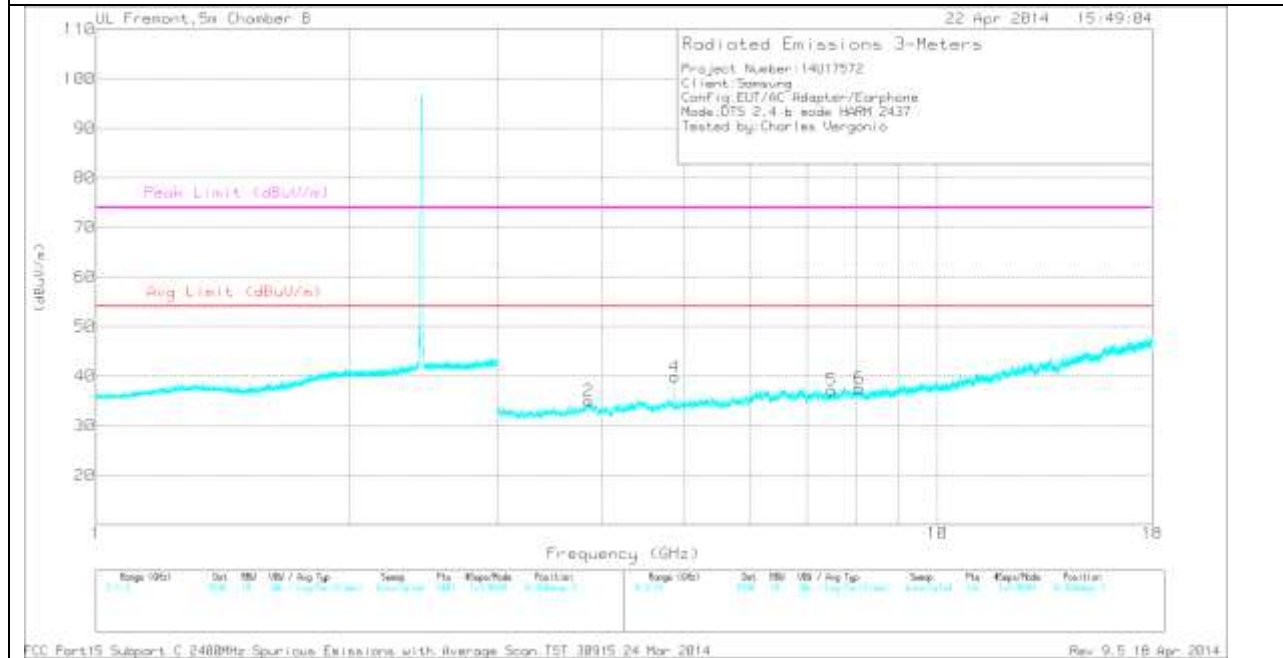
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL
HORIZONTAL



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

MID CHANNEL
VERTICAL



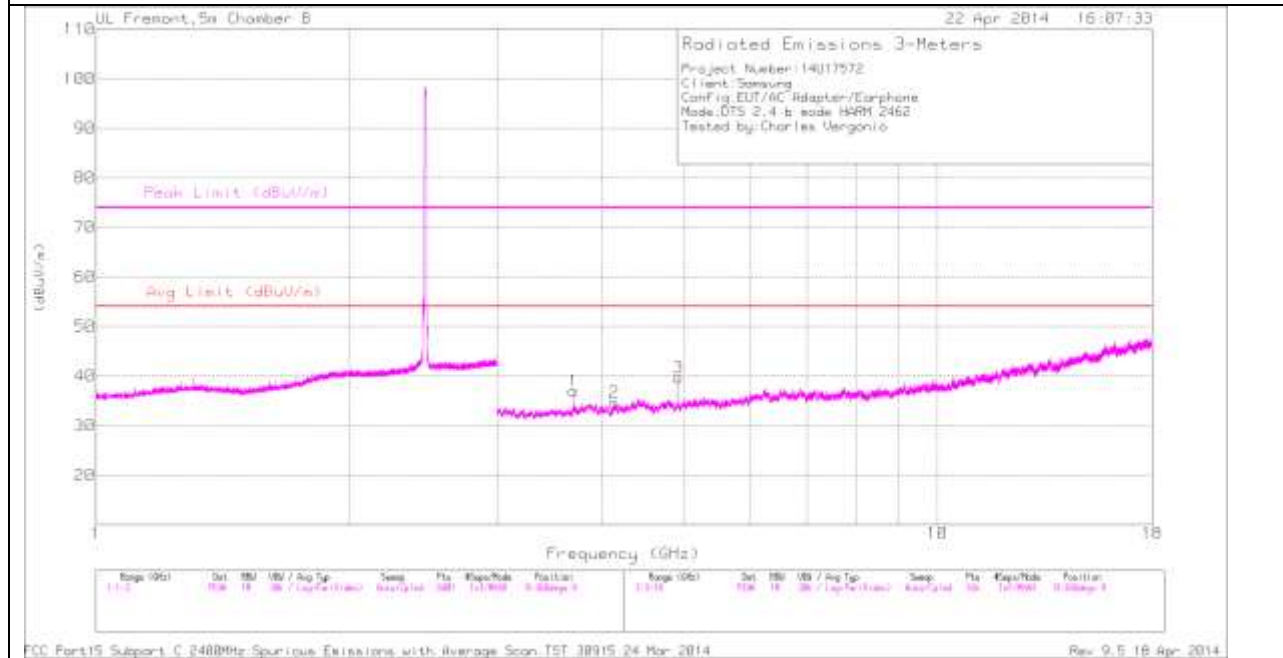
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.655	41.11	PK2	33.2	-31	43.31	54	-10.69	74	-30.69	359	100	H
* 3.656	30.43	MAV1	33.2	-31	32.63	54	-21.37	-	-	359	100	H
* 4.712	40.06	PK2	34.2	-29.5	44.76	54	-9.24	74	-29.24	359	100	H
* 3.847	40.78	PK2	33.7	-30.2	44.28	54	-9.72	74	-29.72	359	100	V
* 7.484	37.46	PK2	35.6	-26.5	46.56	54	-7.44	74	-27.44	359	100	V
* 8.068	37.52	PK2	35.7	-26.2	47.02	54	-6.98	74	-26.98	359	100	V
* 4.873	40.69	PK2	34.2	-30.6	44.29	54	-9.71	74	-29.71	359	100	V
* 4.874	30.52	MAV1	34.2	-30.6	34.12	54	-19.88	-	-	359	100	V

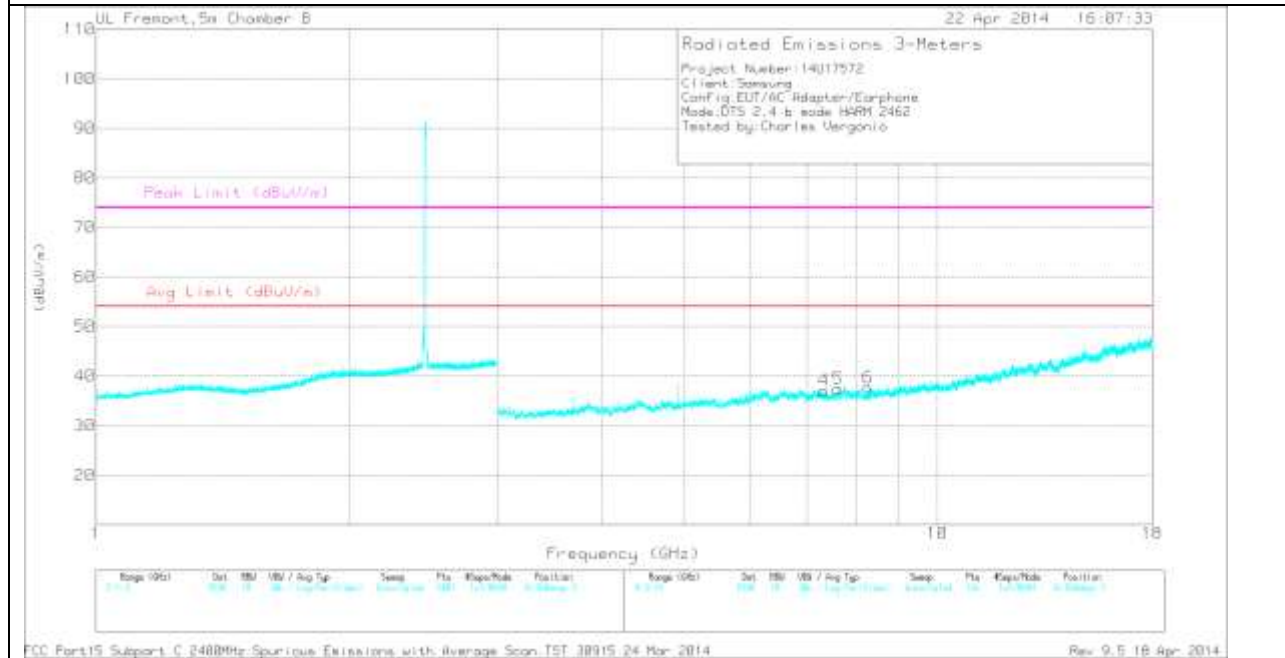
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL
HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

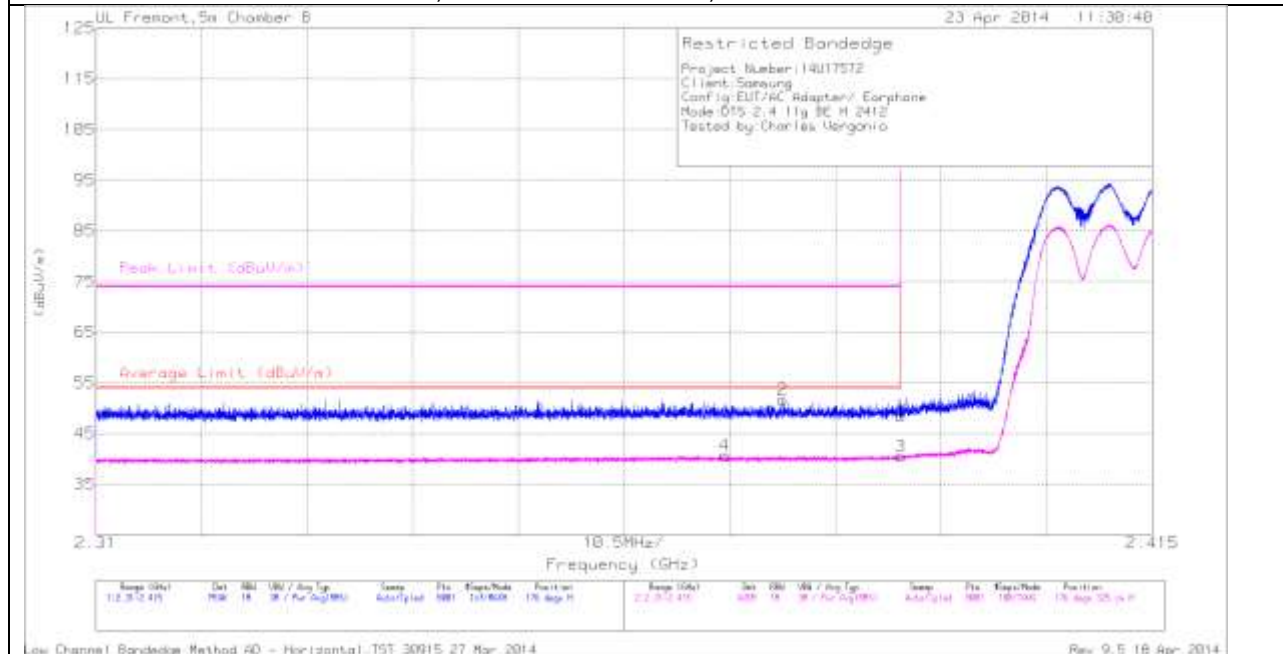
HIGH CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.132	40.32	PK2	33.6	-29.9	44.02	54	-9.98	74	-29.98	360	100	H
* 3.695	40.97	PK2	33.3	-31.2	43.07	54	-10.93	74	-30.93	360	100	H
* 3.693	30.38	MAV1	33.3	-31.2	32.48	54	-21.52	-	-	360	100	H
* 4.923	41.21	PK2	34.2	-30.7	44.71	54	-9.29	74	-29.29	360	100	H
* 4.924	31.01	MAV1	34.2	-30.7	34.51	54	-19.49	-	-	360	100	H
* 7.328	39.49	PK2	35.6	-27.9	47.19	54	-6.81	74	-26.81	360	100	V
* 7.619	38.76	PK2	35.7	-27.7	46.76	54	-7.24	74	-27.24	360	100	V
* 8.268	36.69	PK2	35.7	-26.5	45.89	54	-8.11	74	-28.11	360	100	V

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

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

LOW CHANNEL RESTRICTED, PEAK & AVERAGE, HORIZ



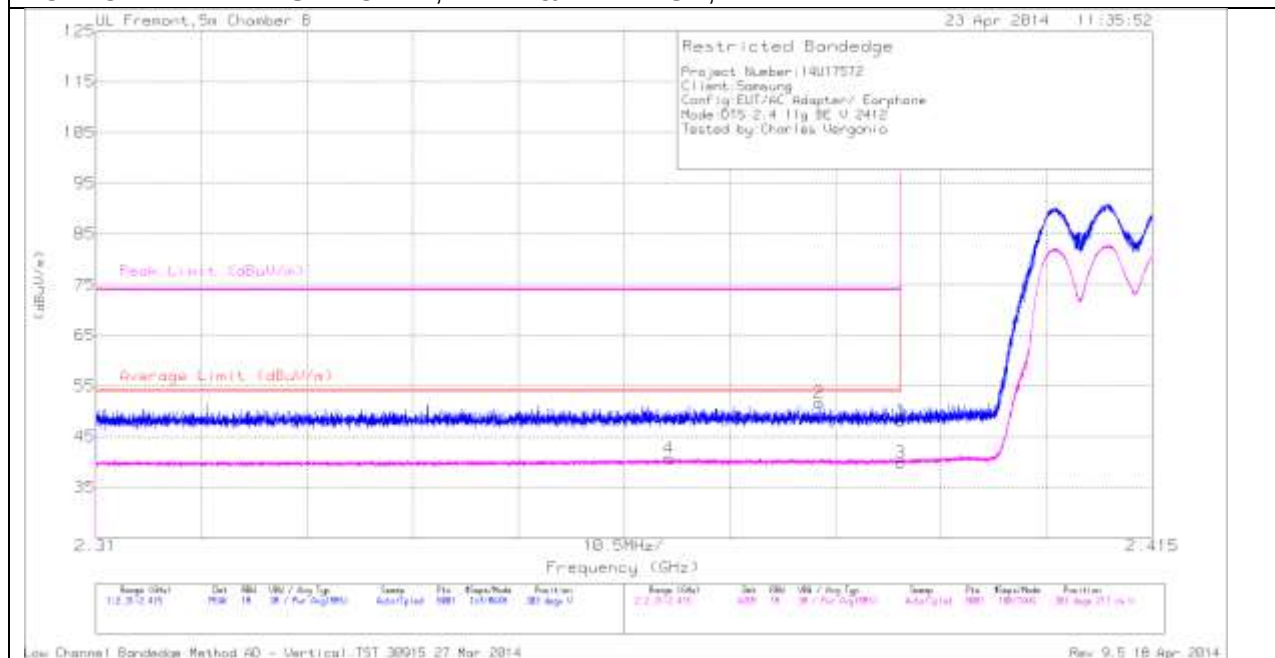
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.21	PK	32.1	-22.9	0	48.41	-	-	74	-25.59	176	325	H
2	* 2.378	42.51	PK	32	-22.9	0	51.61	-	-	74	-22.39	176	325	H
3	* 2.39	30.99	RMS	32.1	-22.9	.3	40.49	54	-13.51	-	-	176	325	H
4	* 2.373	31.18	RMS	32	-22.8	.3	40.68	54	-13.32	-	-	176	325	H

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

PK - Peak detector

RMS - RMS detection

LOW CHANNEL RESTRICTED, PEAK & AVERAGE, VERT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/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	38.92	PK	32.1	-22.9	0	48.12	-	-	74	-25.88	303	217	V
2	* 2.382	42.54	PK	32	-22.9	0	51.64	-	-	74	-22.36	303	217	V
3	* 2.39	30.31	RMS	32.1	-22.9	.3	39.81	54	-14.19	-	-	303	217	V
4	* 2.367	31.18	RMS	32	-22.8	.3	40.68	54	-13.32	-	-	303	217	V

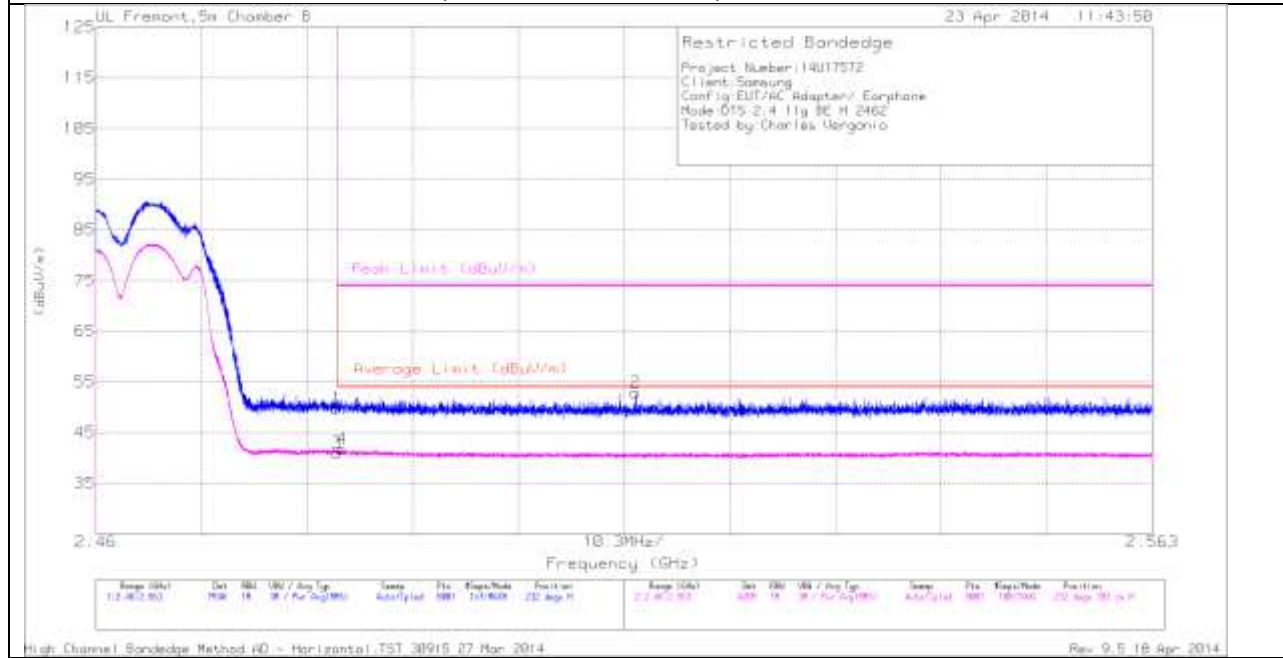
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL RESTRICTED, PEAK & AVERAGE, HORIZ



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/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	40.05	PK	32.4	-22.6	0	49.85	-	-	74	-24.15	232	383	H
3	* 2.484	30.91	RMS	32.4	-22.6	.3	41.01	54	-12.99	-	-	232	383	H
4	* 2.484	31.58	RMS	32.4	-22.6	.3	41.68	54	-12.32	-	-	232	383	H
2	2.513	43.19	PK	32.5	-22.8	0	52.89	-	-	74	-21.11	232	383	H

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

PK - Peak detector

RMS - RMS detection

UL Present, 5a Chamber 6

23 Apr 2014 11:36:45

Restricted Bandedge

Project Number: 14017572
 Client: Samsung
 Config: EUTRA Adaptive Earphone
 Mode: DSS 2.4 11g BE U 2462
 Tested by: Charles Vergonio

dBμV/m

Peak Limit (dBμV/m)

Average Limit (dBμV/m)

Frequency (GHz)

2.46 2.563

High Channel Sordedge Method 60 - Vertical.TST 30015 27 Mar 2014

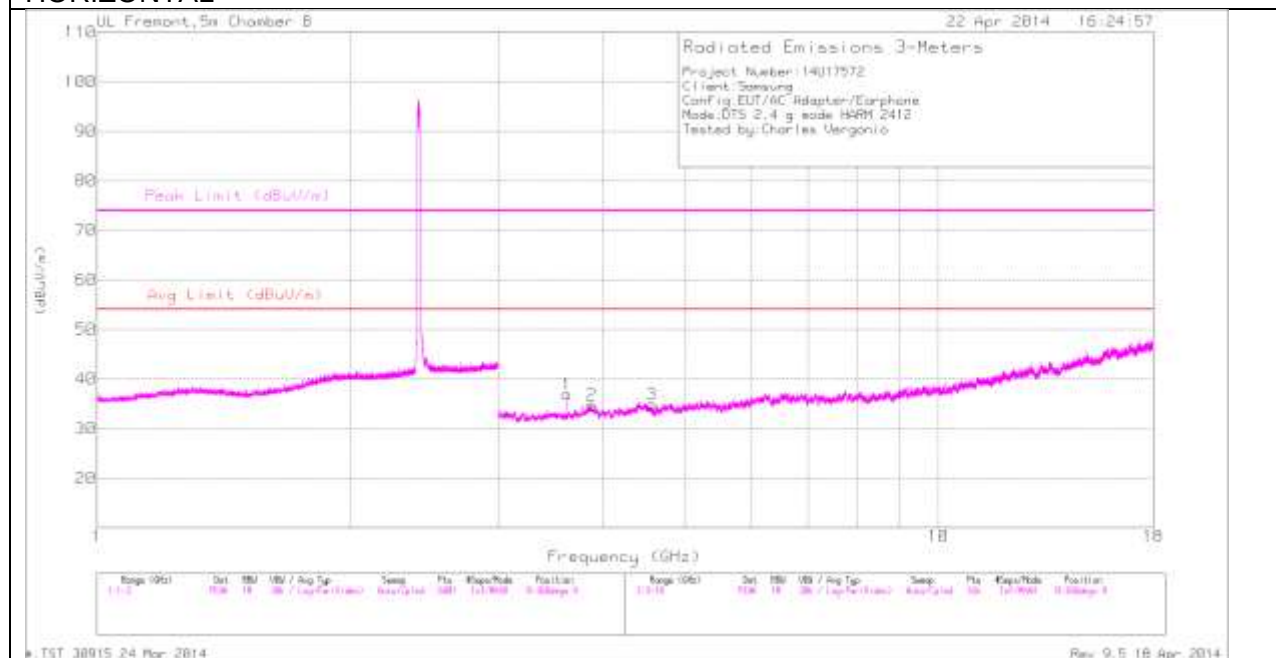
Rev 9.5 18 Apr 2014

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/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	39.22	PK	32.4	-22.6	0	49.02	-	-	74	-24.98	303	217	V
2	* 2.485	42.8	PK	32.4	-22.6	0	52.6	-	-	74	-21.4	303	217	V
3	* 2.484	30.21	RMS	32.4	-22.6	.3	40.31	54	-13.69	-	-	303	217	V
4	2.539	31.12	RMS	32.5	-22.6	.3	41.32	54	-12.68	-	-	303	217	V

RMS - RMS detection

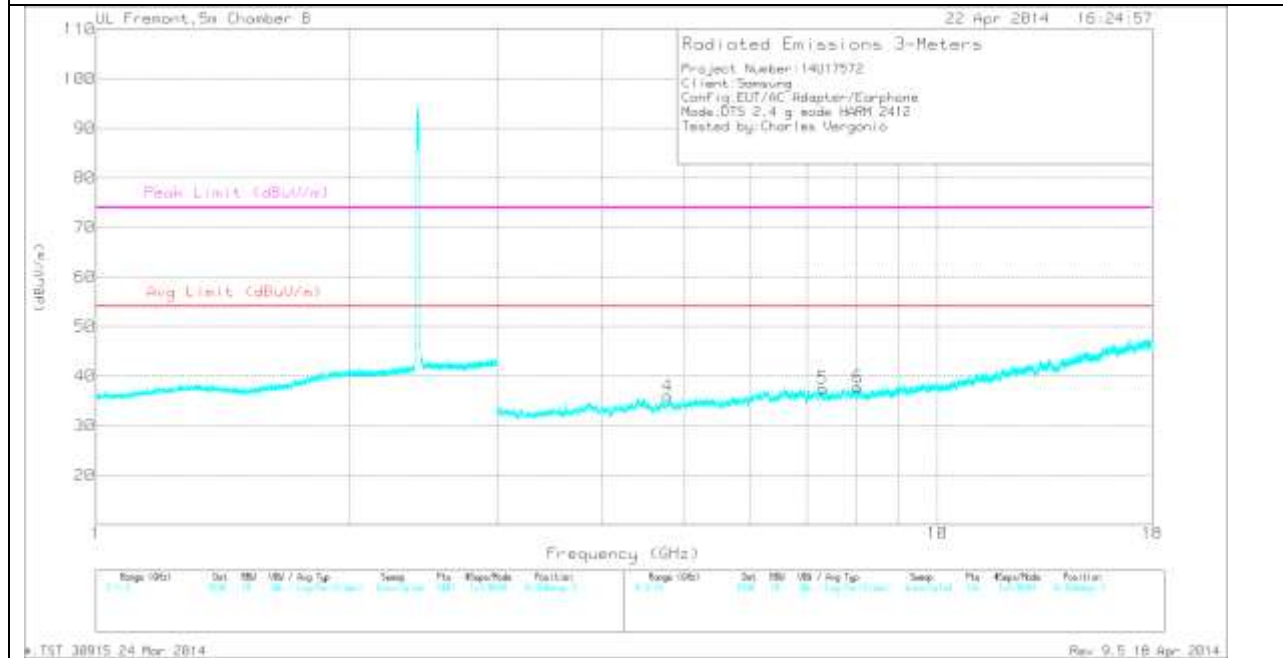
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL
VERTICAL



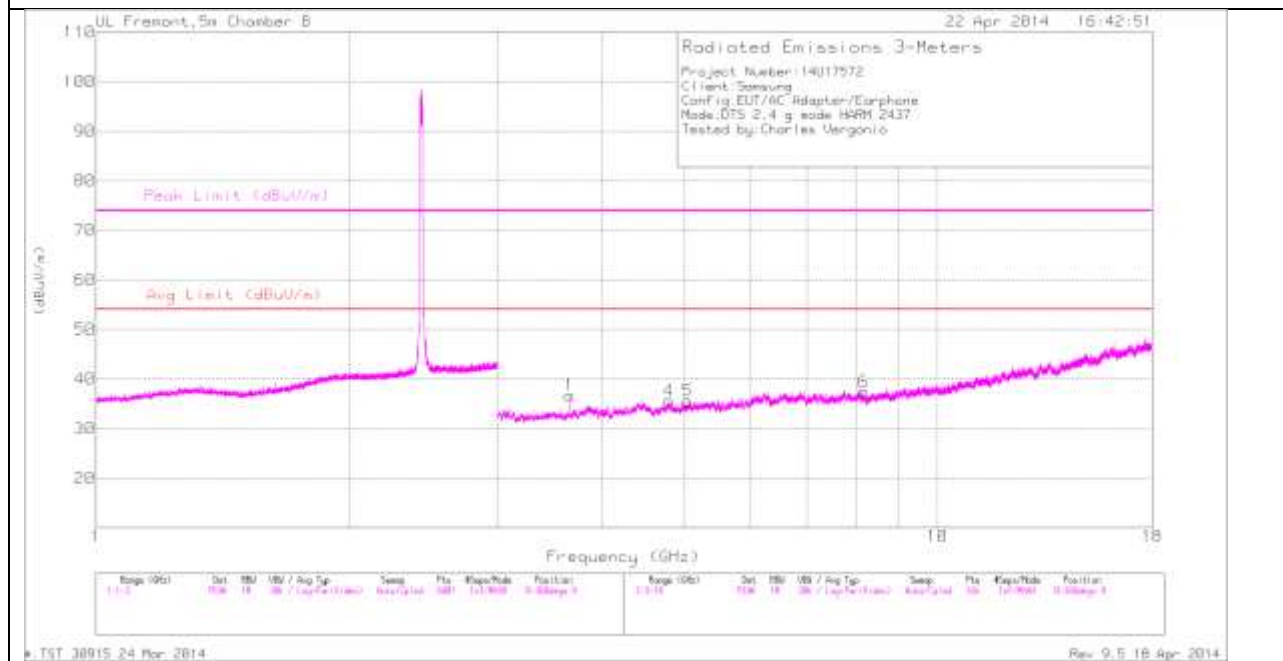
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.871	40.53	PK2	33.8	-30.2	44.13	54	-9.87	74	-29.87	360	100	H
* 4.565	41.13	PK2	34.1	-30.7	44.53	54	-9.47	74	-29.47	360	100	H
* 3.618	41.49	PK2	33.2	-31.2	43.49	54	-10.51	74	-30.51	360	100	H
* 4.782	39.89	PK2	34.2	-29	45.09	54	-8.91	74	-28.91	360	100	V
* 7.315	39.97	PK2	35.6	-27.7	47.87	54	-6.13	74	-26.13	360	100	V
* 8.052	37.7	PK2	35.7	-26.3	47.1	54	-6.9	74	-26.9	360	100	V

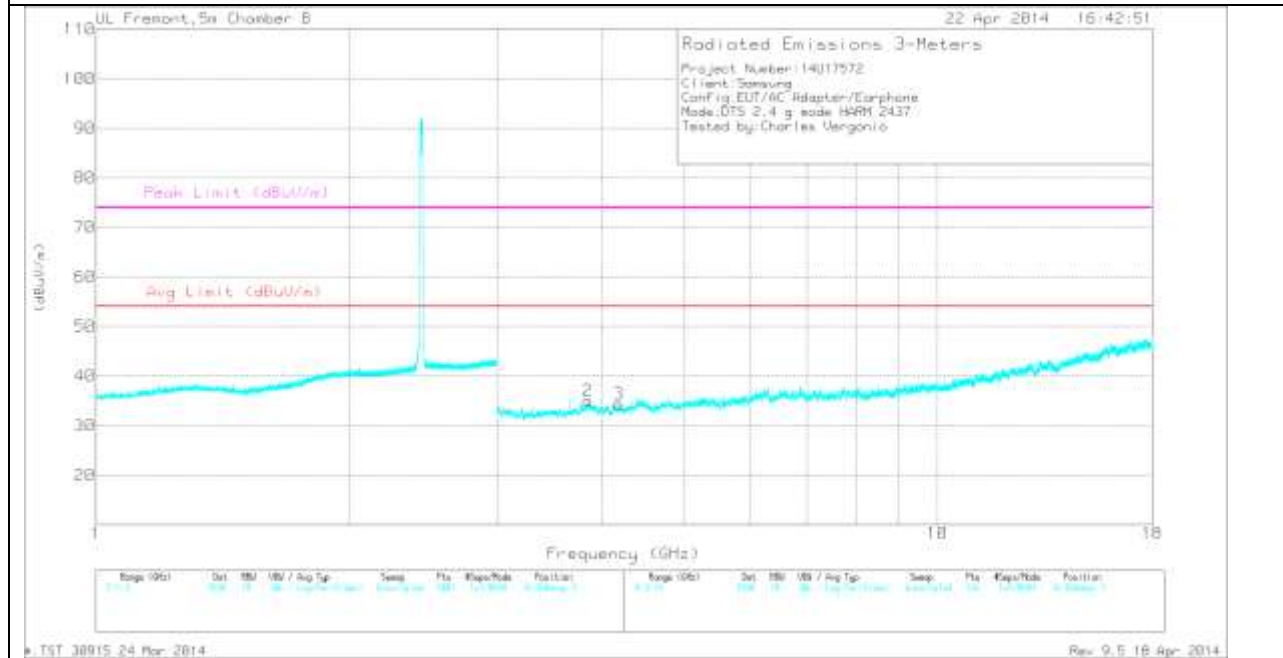
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL
HORIZONTAL



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

MID CHANNEL
VERTICAL



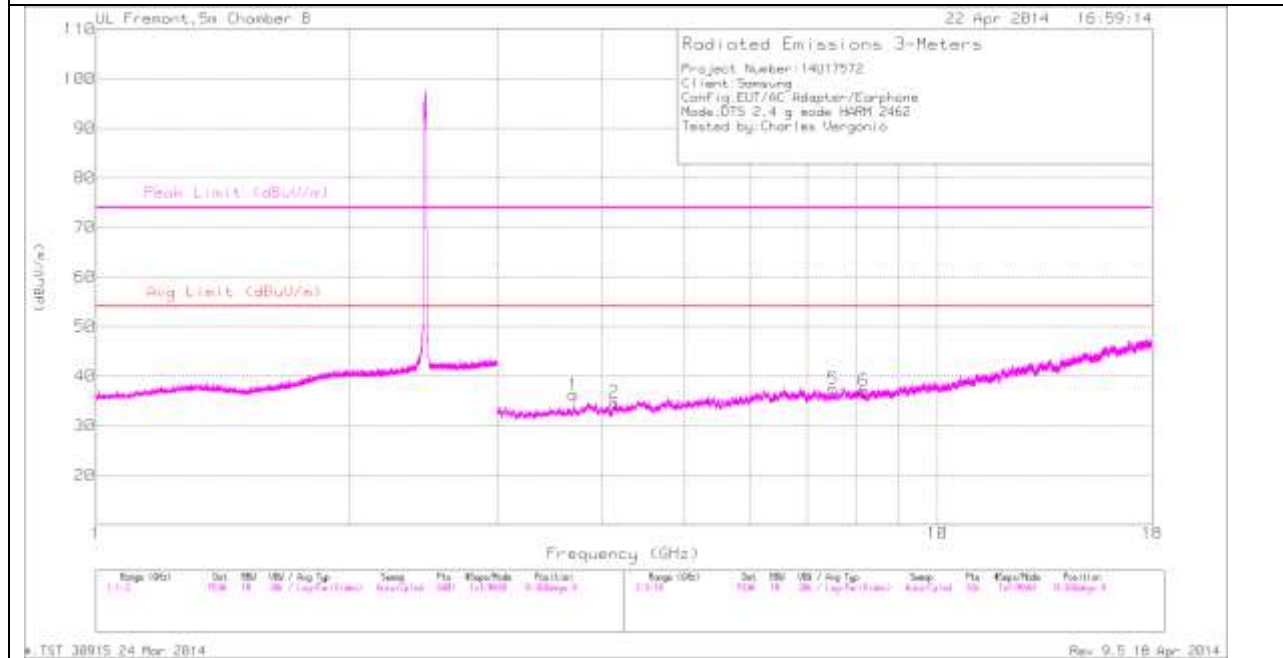
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.656	41.51	PK2	33.2	-31	43.71	54	-10.29	74	-30.29	360	100	H
* 4.801	39.16	PK2	34.2	-28.8	44.56	54	-9.44	74	-29.44	360	100	H
* 5.05	39.64	PK2	34.2	-28.8	45.04	54	-8.96	74	-28.96	360	100	H
* 8.172	37.55	PK2	35.7	-26.8	46.45	54	-7.55	74	-27.55	360	100	H
* 3.842	40.56	PK2	33.7	-30.2	44.06	54	-9.94	74	-29.94	360	100	V
* 4.184	39.9	PK2	33.6	-29.8	43.7	54	-10.3	74	-30.3	360	100	V

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

HIGH CHANNEL
HORIZONTAL



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

Radiated Emissions 3-Meters
 Project Number: 14017572
 Client: Samsung
 Config: EUT/6C Adapter/Earphone
 Mode: OTS 2.4 g mode HARM 2452
 Tested by: Charles Vergonio

22 Apr 2014 16:59:14

Peak Limit (dBuV/m)
 Avg Limit (dBuV/m)

Frequency (GHz)

Range (GHz)	Det	RBW	VBW	Ref Type	Scale	File	Waveform	Position
0.01 - 18.0	Max	900	300	dBuV/m	1.0	14017572	Normal	1.0

• TST 30015 24 Nov 2014

Rev: 0.5 16

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HIGH CHANNEL DATA

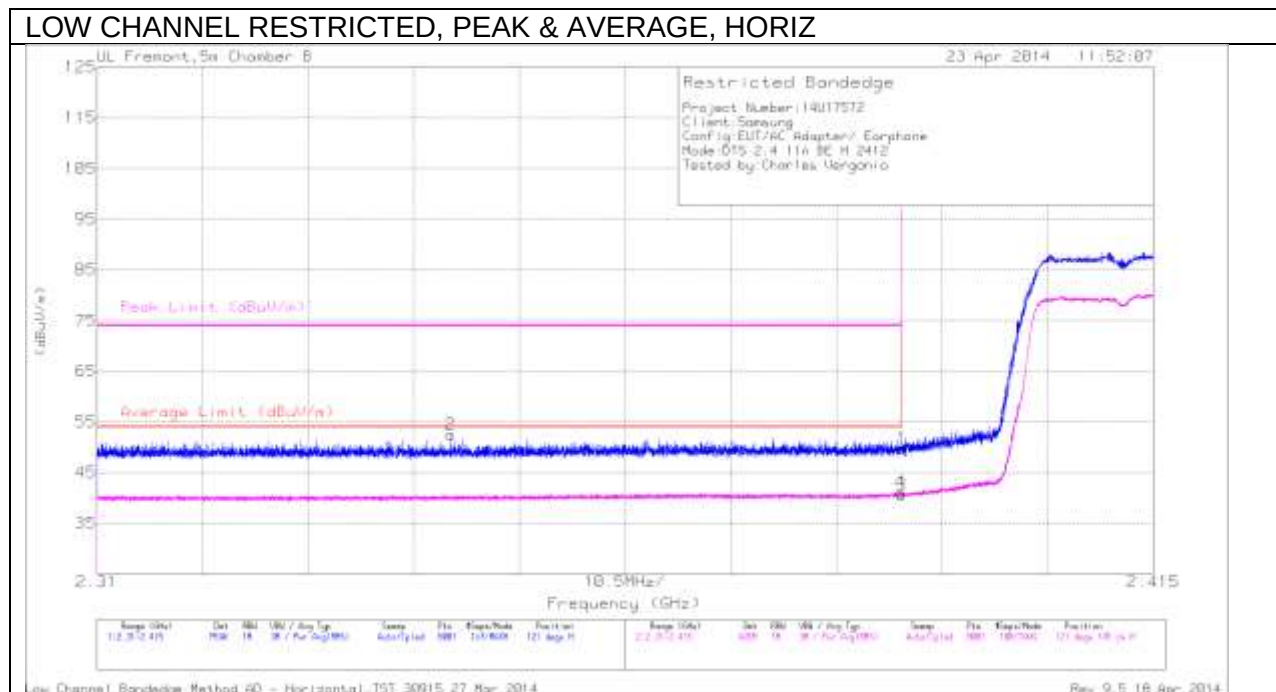
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.694	41.13	PK2	33.3	-31.2	43.23	54	-10.77	74	-30.77	359	100	H
* 4.134	40.62	PK2	33.6	-29.8	44.42	54	-9.58	74	-29.58	359	100	H
* 7.508	38	PK2	35.6	-26.7	46.9	54	-7.1	74	-27.1	359	100	H
* 8.175	37.21	PK2	35.7	-26.8	46.11	54	-7.89	74	-27.89	359	100	H
* 4.774	40.35	PK2	34.2	-29.3	45.25	54	-8.75	74	-28.75	359	100	V
* 5.093	38.65	PK2	34.2	-28.5	44.35	54	-9.65	74	-29.65	359	100	V

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

PK2 - KDB558074 Method: Maximum Peak

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

RESTRICTED BANDEDGE (LOW CHANNEL)



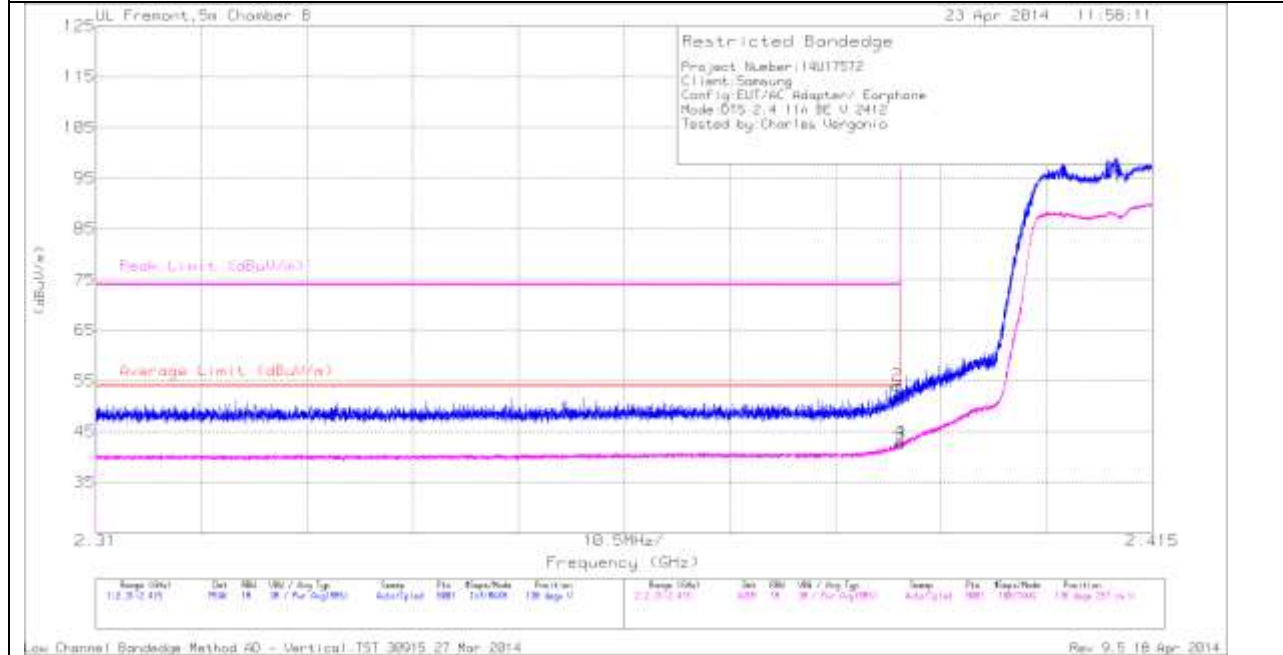
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.62	PK	32.1	-22.9	0	49.82	-	-	74	-24.18	121	145	H
2	* 2.345	43.65	PK	31.9	-23	0	52.55	-	-	74	-21.45	121	145	H
3	* 2.39	30.78	RMS	32.1	-22.9	.6	40.58	54	-13.42	-	-	121	145	H
4	* 2.39	31.26	RMS	32.1	-22.9	.6	41.06	54	-12.94	-	-	121	145	H

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

PK - Peak detector

RMS - RMS detection

LOW CHANNEL RESTRICTED, PEAK & AVERAGE, VERT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/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	42.19	PK	32.1	-22.9	0	51.39	-	-	74	-22.61	138	257	V
2	* 2.39	44.88	PK	32.1	-22.9	0	54.08	-	-	74	-19.92	138	257	V
3	* 2.39	32.79	RMS	32.1	-22.9	.6	42.59	54	-11.41	-	-	138	257	V
4	* 2.39	33.05	RMS	32.1	-22.9	.6	42.85	54	-11.15	-	-	138	257	V

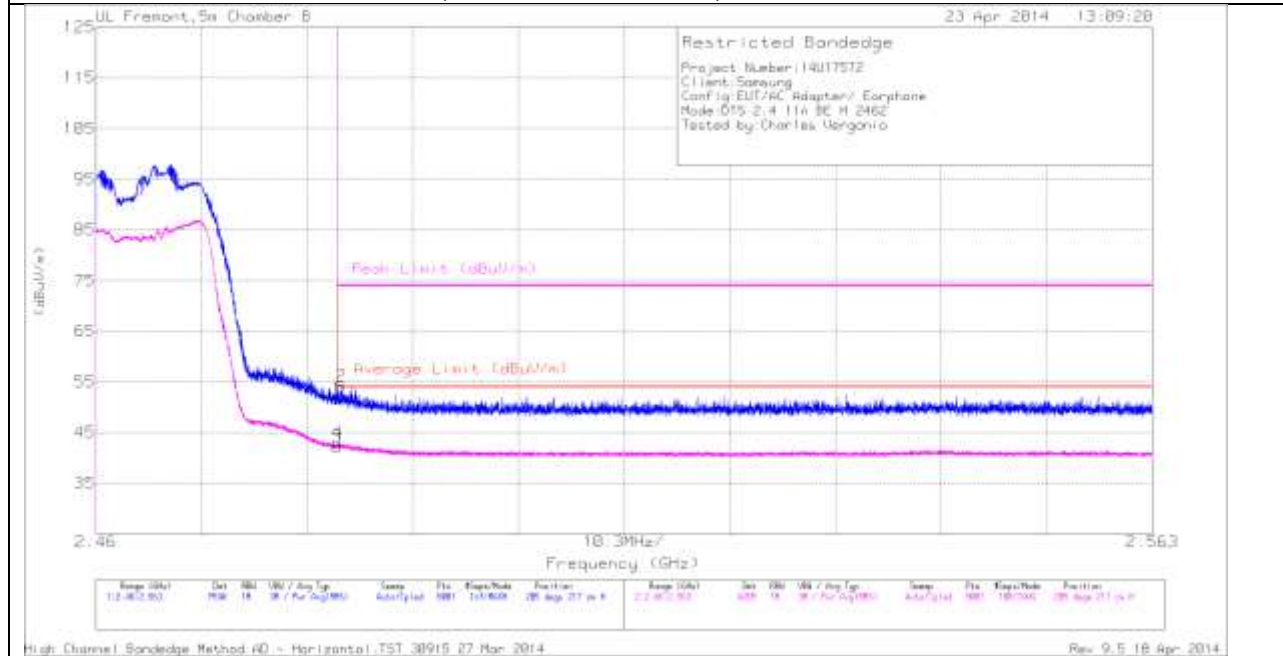
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL RESTRICTED, PEAK & AVERAGE, HORIZ



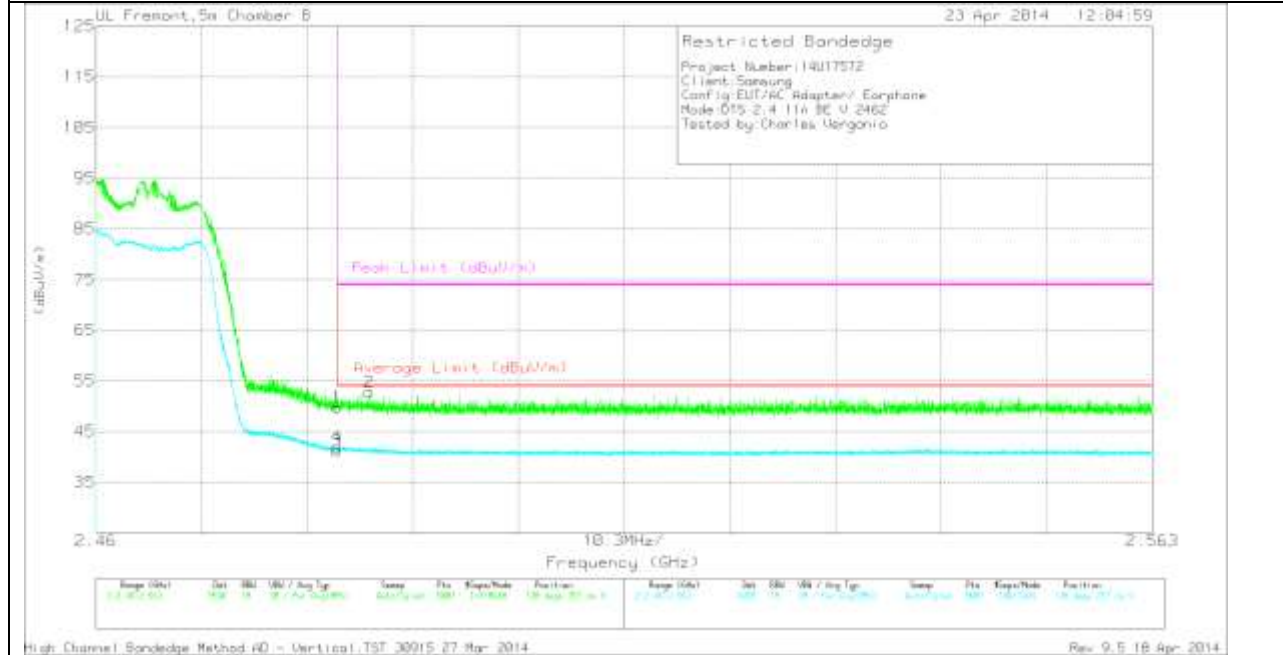
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.85	PK	32.4	-22.6	0	51.65	-	-	74	-22.35	205	217	H
2	* 2.484	44.37	PK	32.4	-22.6	0	54.17	-	-	74	-19.83	205	217	H
3	* 2.484	31.81	RMS	32.4	-22.6	.6	42.21	54	-11.79	-	-	205	217	H
4	* 2.484	32.61	RMS	32.4	-22.6	.6	43.01	54	-10.99	-	-	205	217	H

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

PK - Peak detector

RMS - RMS detection

HIGH CHANNEL BANDEDGE, PEAK & AVERAGE, VERT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/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	40.03	PK	32.4	-22.6	0	49.83	-	-	74	-24.17	138	257	V
2	* 2.487	42.93	PK	32.4	-22.6	0	52.73	-	-	74	-21.27	138	257	V
3	* 2.484	30.79	RMS	32.4	-22.6	.6	41.19	54	-12.81	-	-	138	257	V
4	* 2.484	31.57	RMS	32.4	-22.6	.6	41.97	54	-12.03	-	-	138	257	V

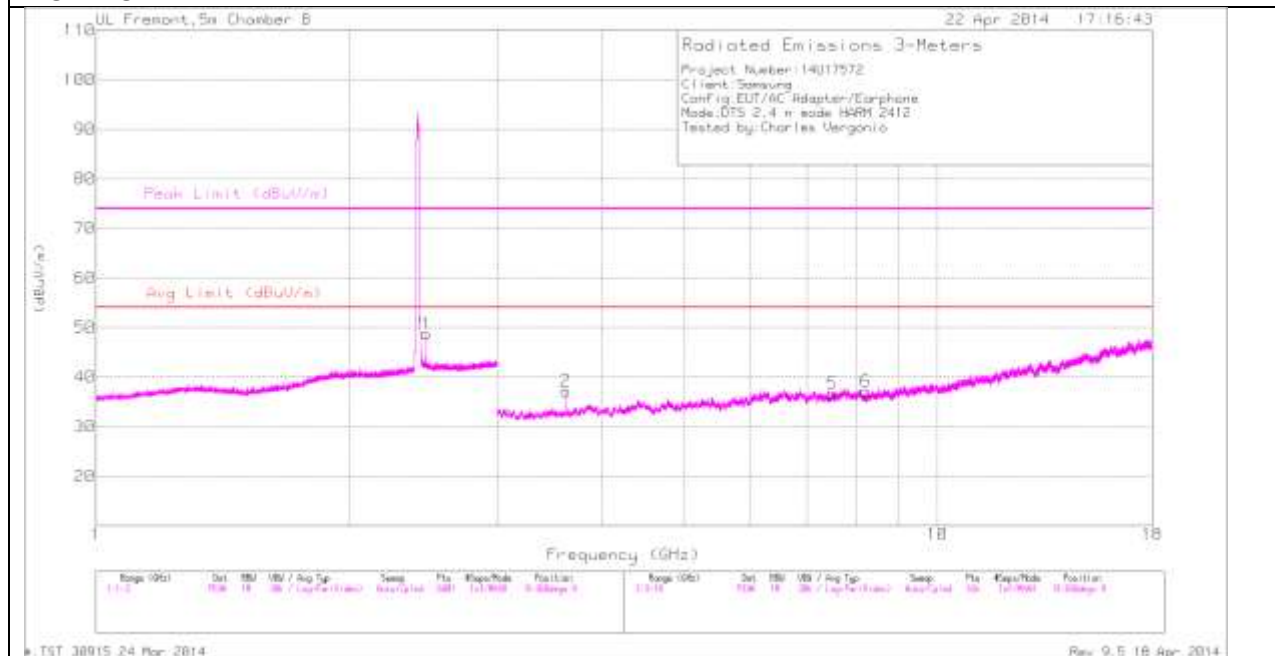
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

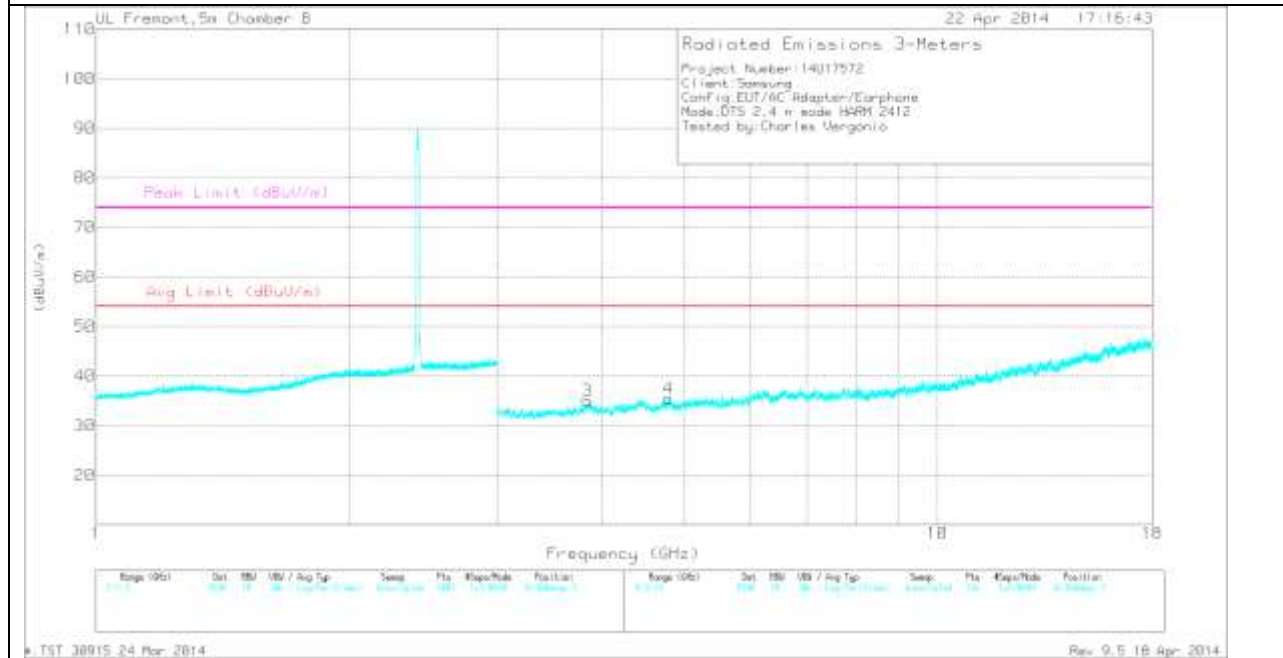
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL
VERTICAL



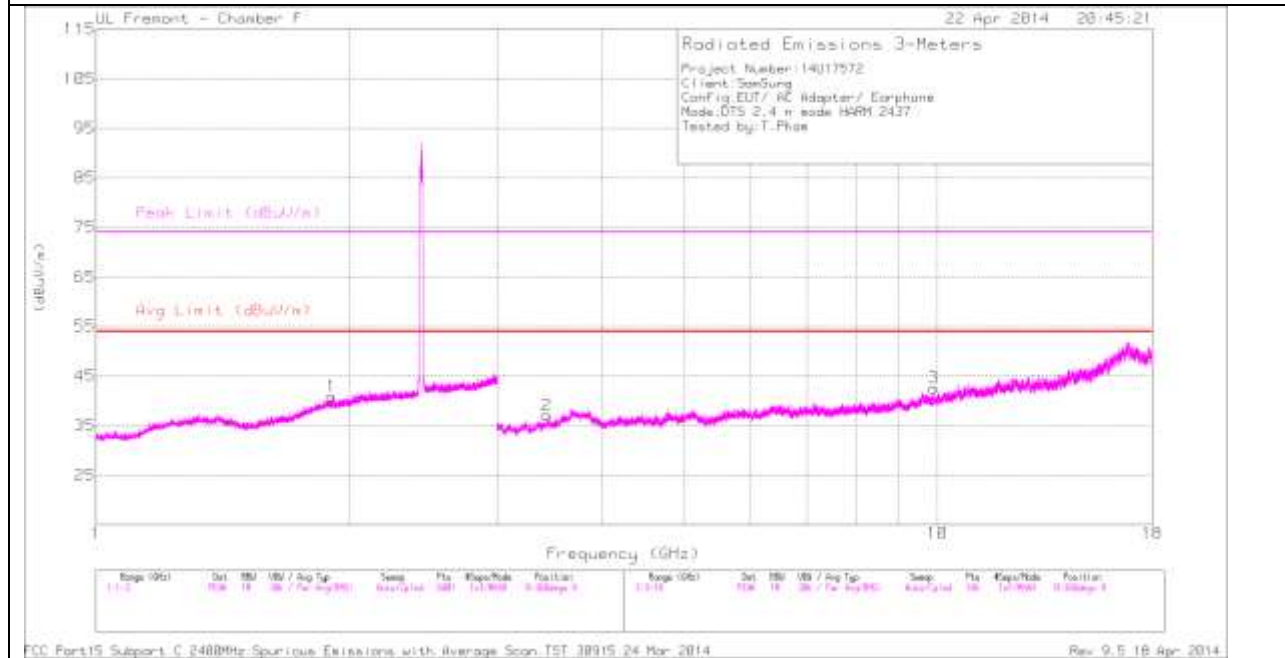
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.618	42.32	PK2	33.2	-31.2	44.32	54	-9.68	74	-29.68	360	100	H
* 7.496	37.41	PK2	35.6	-26.5	46.51	54	-7.49	74	-27.49	360	100	H
* 8.216	37.41	PK2	35.7	-26.8	46.31	54	-7.69	74	-27.69	360	100	H
* 3.835	40.81	PK2	33.7	-30.2	44.31	54	-9.69	74	-29.69	360	100	V
* 4.793	39.47	PK2	34.2	-28.8	44.87	54	-9.13	74	-29.13	360	100	V
2.468	44.56	PK2	32.3	-22.8	54.06			74	-20.06	360	100	H
2.468	32.55	MAV1	32.4	-22.8	42.15	54	-11.85	74	-31.85	360	100	H

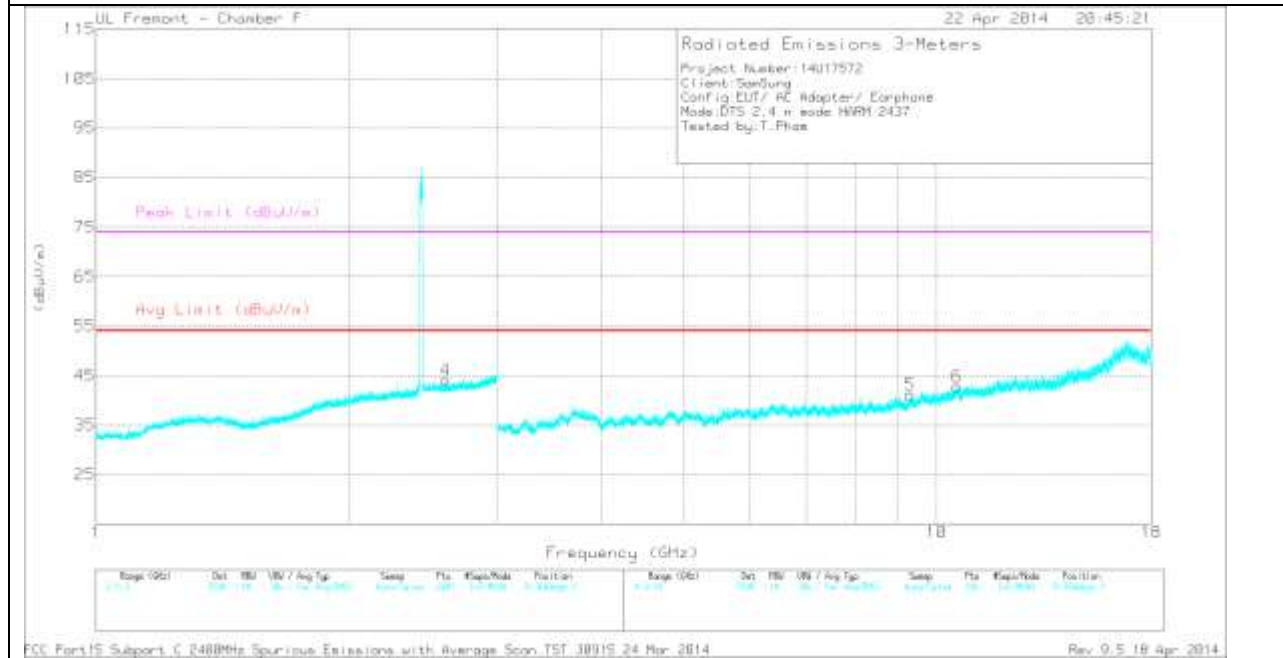
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL
HORIZONTAL



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

MID CHANNEL
VERTICAL



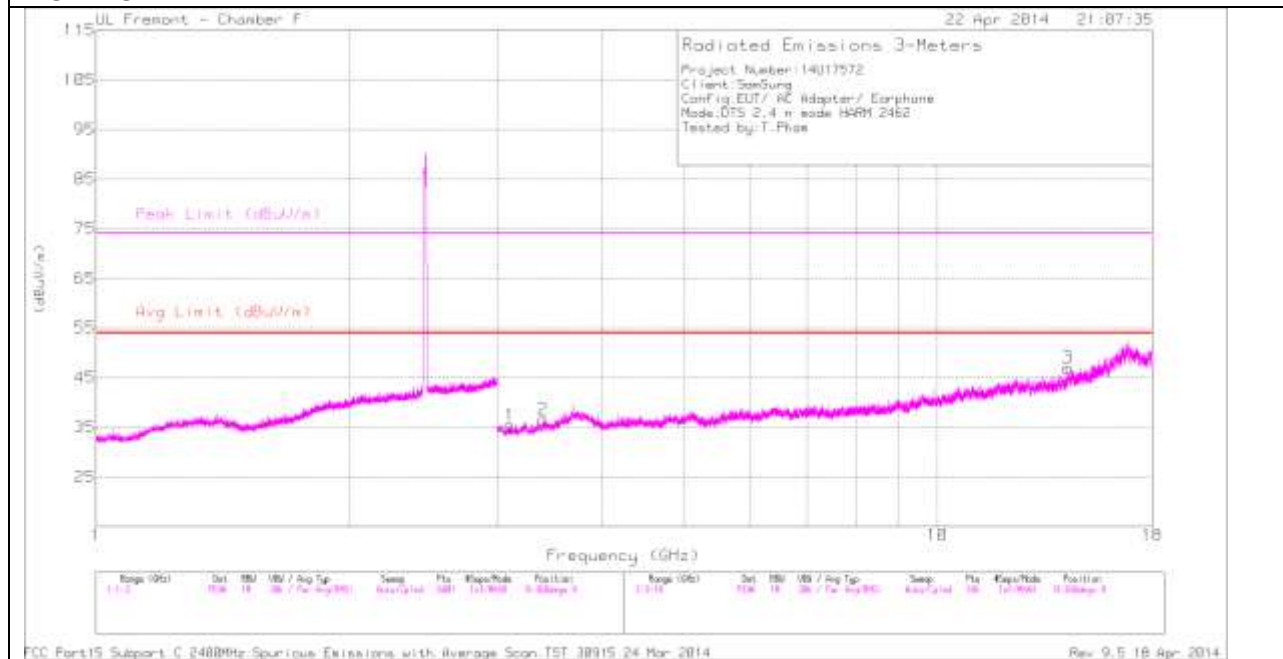
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.905	34.24	PK2	31.4	-24.7	40.94	54	-13.06	74	-33.06	0-360	199	H
4	2.606	34.68	PK2	32.7	-23.3	44.08	54	-9.92	74	-29.92	0-360	101	V
2	3.433	31.98	PK2	34.1	-29	37.08	54	-16.92	74	-36.92	0-360	199	H
3	9.888	27.42	PK2	37.2	-22	42.62	54	-11.38	74	-31.38	0-360	101	H
5	9.294	28.09	PK2	36.4	-23.3	41.19	54	-12.91	74	-32.91	0-360	201	V
6	10.57	25.82	PK2	37.8	-20.8	42.82	54	-11.18	74	-31.18	0-360	201	V

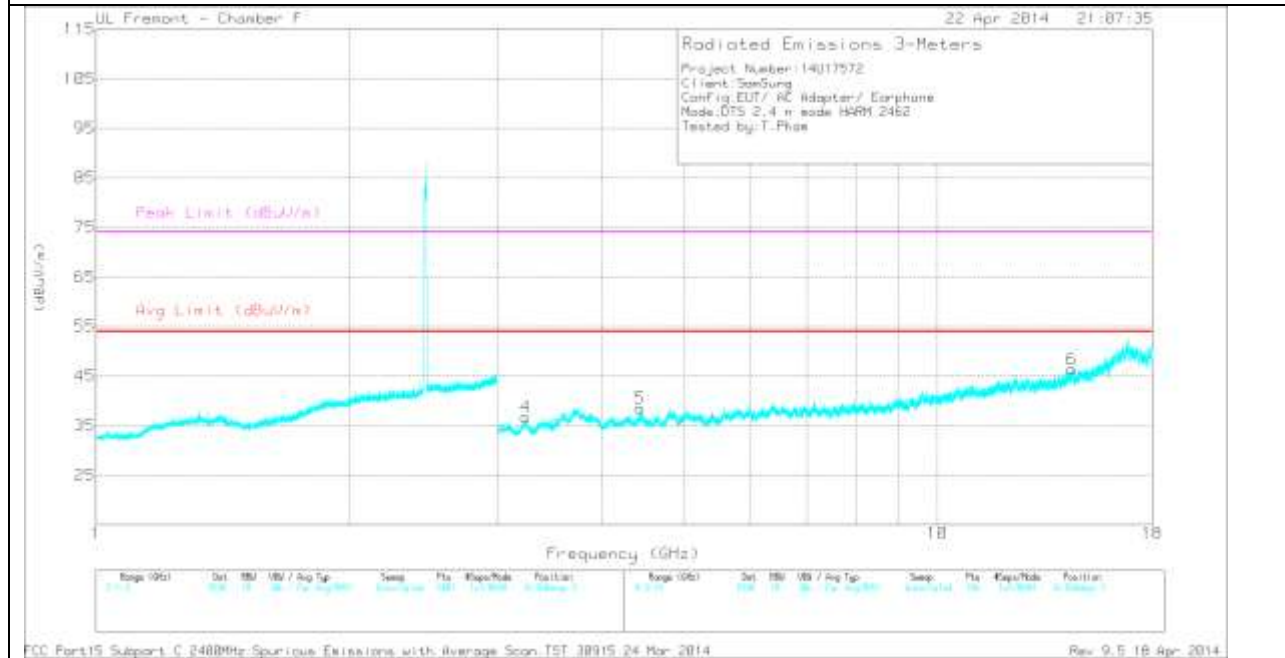
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL
VERTICAL



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

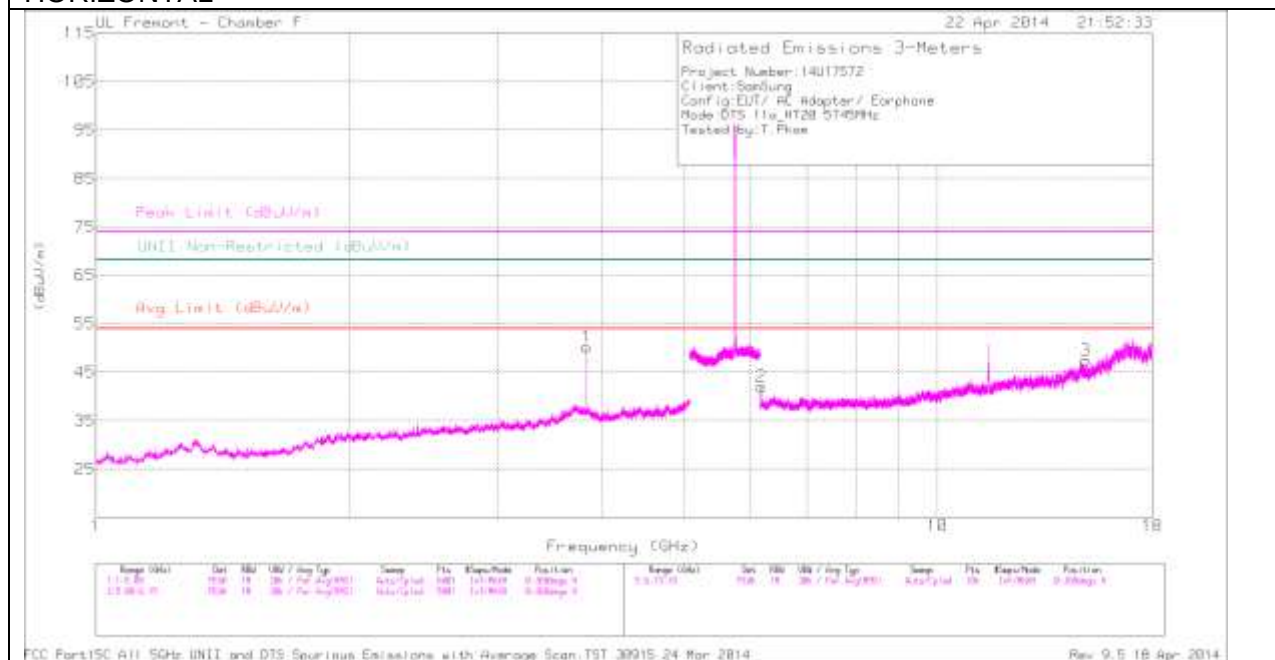
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.104	32	PK2	33.3	-29.8	35.5	54	-18.5	74	-38.5	0-360	200	H
2	3.403	31.99	PK2	34	-29.4	36.59	54	-17.41	74	- 37.41	0-360	200	H
3	14.279	29.76	PK2	39.4	-22.1	47.06	54	-6.94	74	- 26.94	0-360	200	H
4	3.239	32.08	PK2	33.4	-28.8	36.68	54	-17.32	74	- 37.32	0-360	201	V
5	4.43	33.23	PK2	33.9	-28.6	38.53	54	-15.47	74	- 35.47	0-360	201	V
6	14.435	29.23	PK2	39.7	-22.6	46.33	54	-7.67	74	- 27.67	0-360	201	V

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

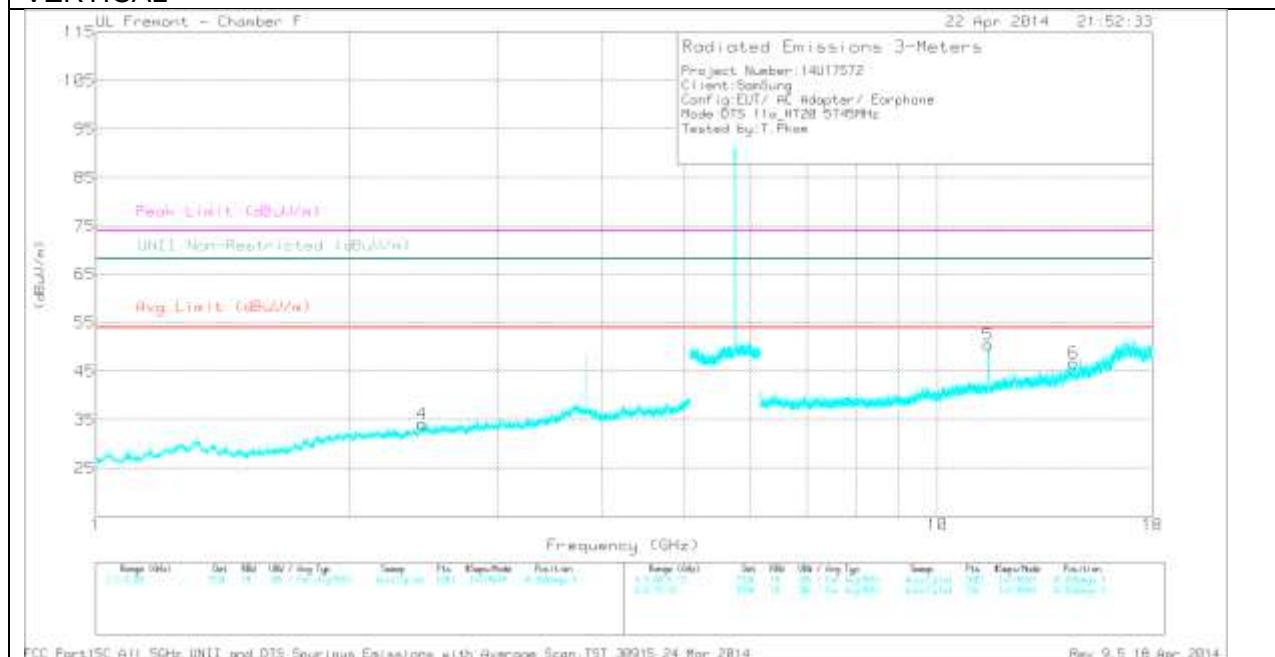
10.2.4. TX ABOVE 1 GHz 802.11a HT20 CDD MODE IN THE 5.8 GHz BAND **HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL
VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.83	45.19	PK	34.3	-29.2	50.29	-	-	74	-23.71	-	-	0-360	101	H
4	2.442	32.64	PK	32.4	-30.9	34.14	-	-	-	-	68.2	-34.06	0-360	201	V
2	6.174	33.56	PK	35.4	-26.9	42.06	-	-	-	-	68.2	-26.14	0-360	101	H
3	14.988	29.49	PK	39.8	-21.8	47.49	-	-	-	-	68.2	-20.71	0-360	101	H
5	* 11.49	34.71	PK	38.4	-22.6	50.51	-	-	74	-23.49	-	-	0-360	201	V
6	14.525	29.13	PK	39.8	-22.2	46.73	-	-	-	-	68.2	-21.47	0-360	101	V

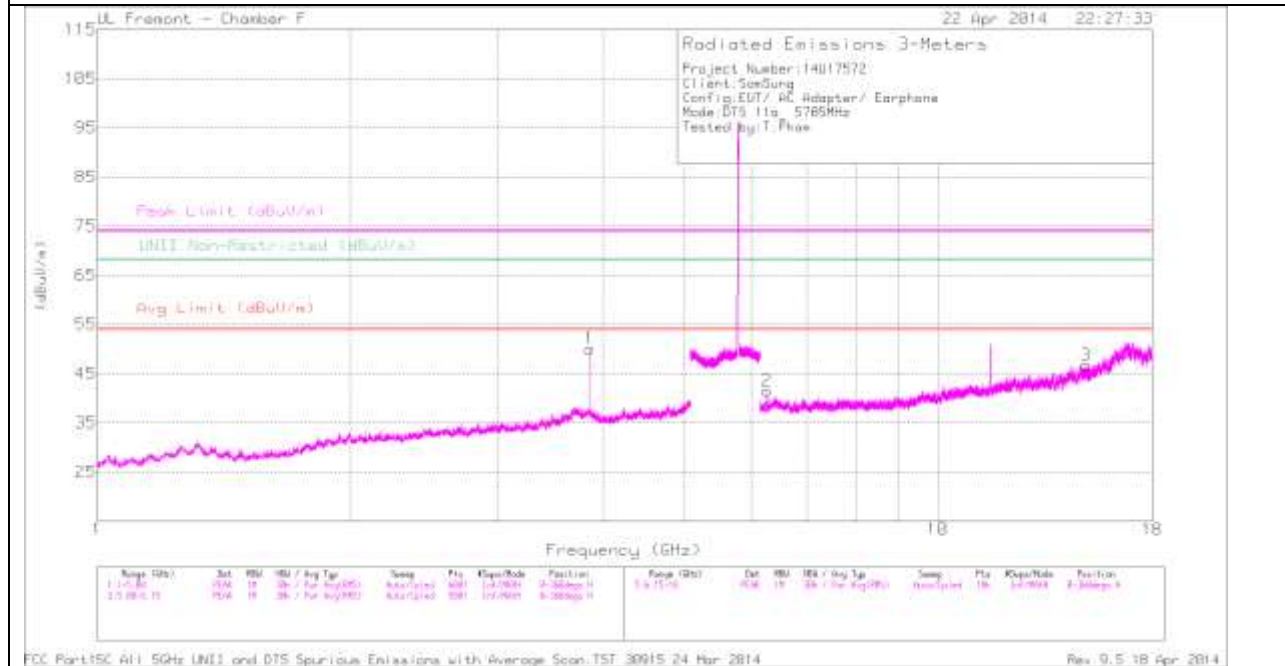
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.83	49	PK2	34.3	-29.2	54.1	-	-	74	-19.9	-	-	278	185	H
* 3.83	45.87	MAV1	34.3	-29.2	50.97	54	-3.03	-	-	-	-	278	185	H
* 11.496	45.75	PK2	38.4	-22.4	61.75	-	-	74	-12.25	-	-	47	175	V
* 11.491	33.64	MAV1	38.4	-22.6	49.44	54	-4.56	-	-	-	-	47	175	V

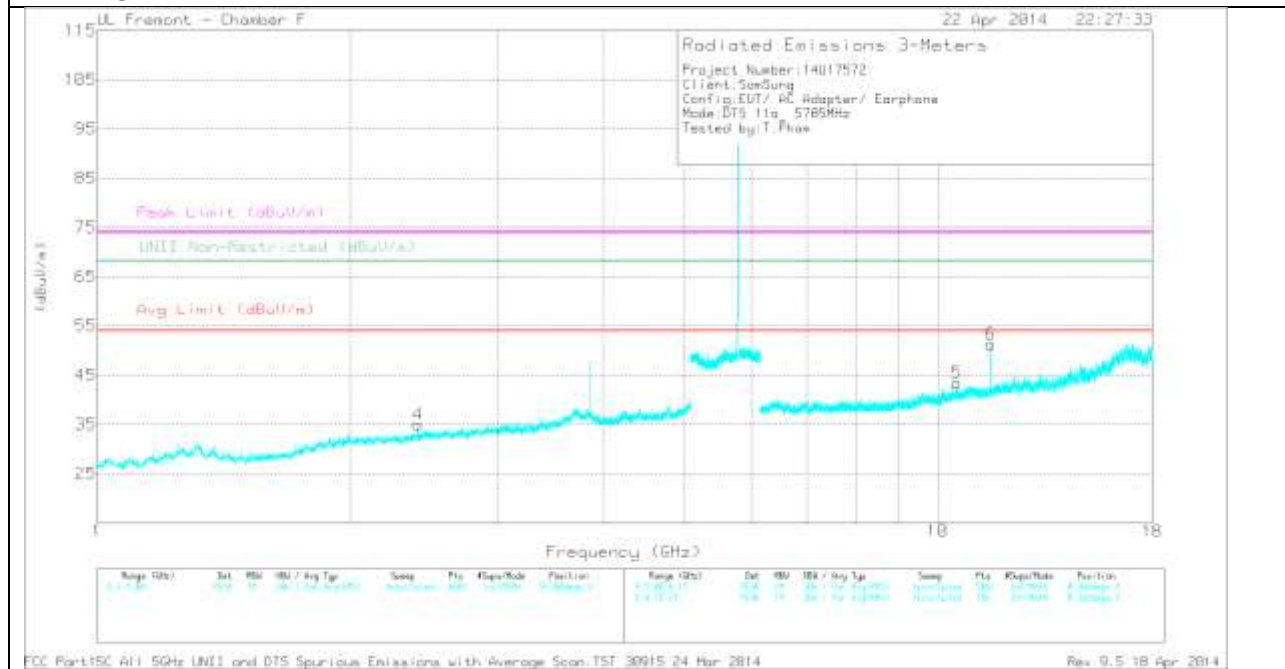
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL
HORIZONTAL



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

MID CHANNEL
VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.857	45.31	PK	34.2	-29.4	50.11	-	-	74	-23.89	-	-	0-360	200	H
4	2.408	33.58	PK	32.2	-30.8	34.98	-	-	-	-	68.2	-33.22	0-360	101	V
2	6.265	32.85	PK	35.5	-26.8	41.55	-	-	-	-	68.2	-26.65	0-360	101	H
3	15.024	28.75	PK	39.9	-21.9	46.75	-	-	-	-	68.2	-21.45	0-360	200	H
5	10.541	27.28	PK	37.8	-21.7	43.38	-	-	-	-	68.2	-24.82	0-360	201	V
6	* 11.568	36.11	PK	38.4	-23.2	51.31	-	-	74	-22.69	-	-	0-360	101	V

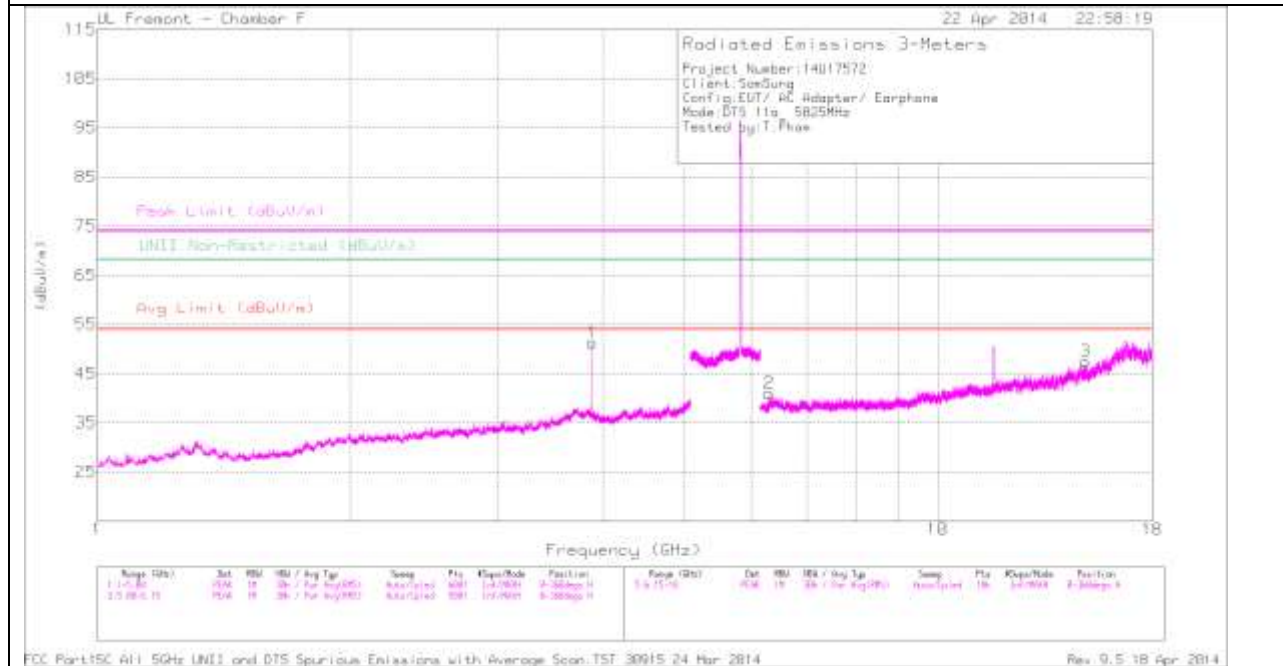
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.857	48.72	PK2	34.2	-29.4	53.52	-	-	74	-20.48	-	-	279	181	H
* 3.857	47.08	MAV1	34.2	-29.4	51.88	54	-2.12	-	-	-	-	279	181	H
* 11.573	44.02	PK2	38.5	-23.1	59.42	-	-	74	-14.58	-	-	276	322	V
* 11.572	32.5	MAV1	38.5	-23.2	47.8	54	-6.2	-	-	-	-	276	322	V

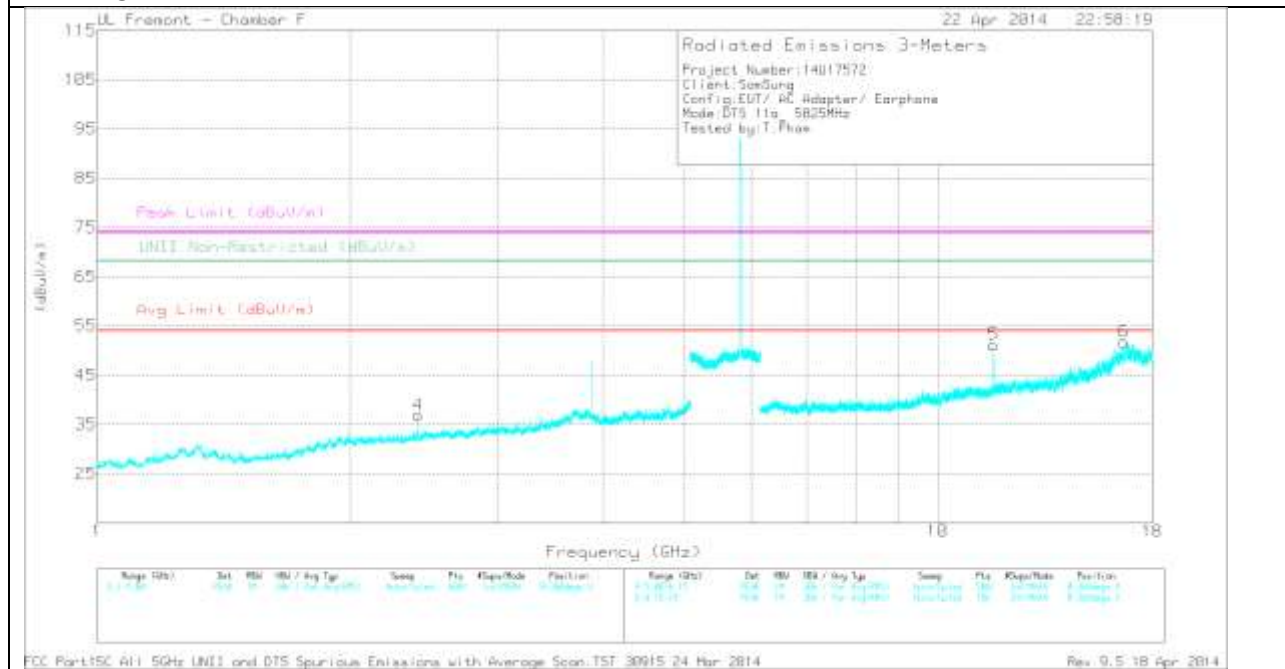
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL
HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.883	46.79	PK	34.1	-29.6	51.29	-	-	74	-22.71	-	-	0-360	199	H
4	2.41	35.49	PK	32.2	-30.8	36.89	-	-	-	-	68.2	-31.31	0-360	101	V
2	6.303	31.94	PK	35.5	-26.5	40.94	-	-	-	-	68.2	-27.26	0-360	101	H
3	14.99	29.46	PK	39.8	-21.8	47.46	-	-	-	-	68.2	-20.74	0-360	200	H
5	* 11.651	36.05	PK	38.6	-23.5	51.15	-	-	74	-22.85	-	-	0-360	201	V
6	16.645	27.62	PK	41.3	-17.1	51.82	-	-	-	-	68.2	-16.38	0-360	101	V

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

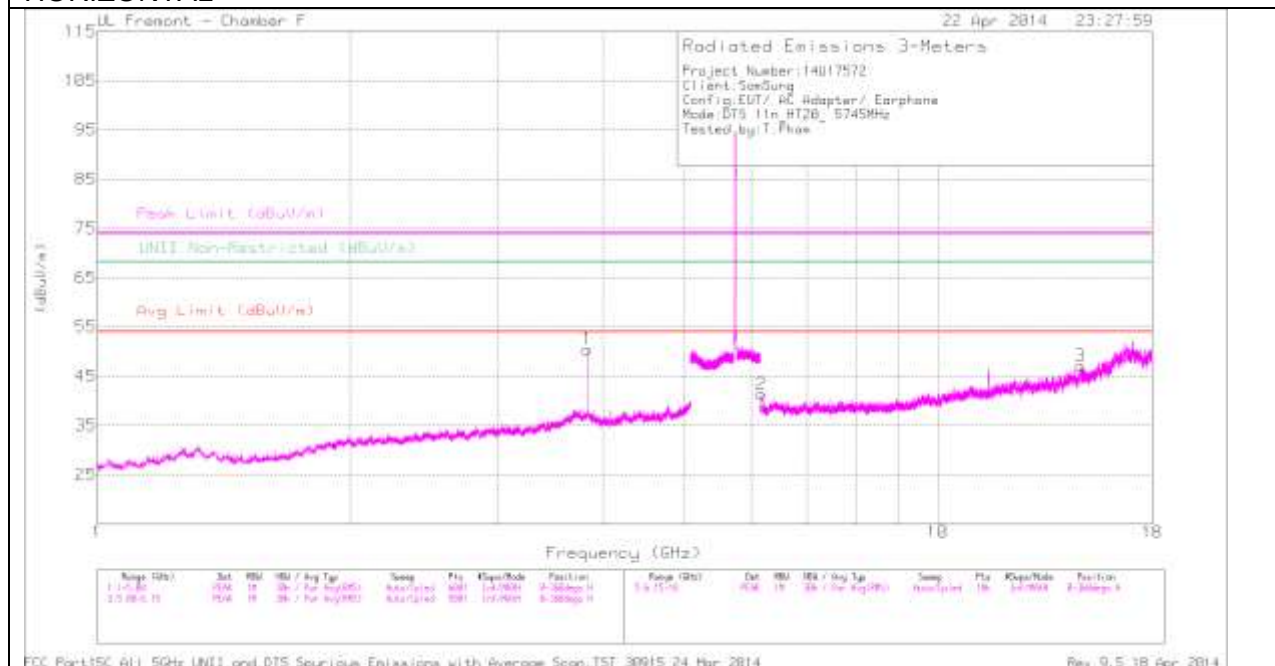
PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.883	50.5	PK2	34.1	-29.6	55	-	-	74	-19	-	-	271	181	H
* 3.883	48.04	MAv1	34.1	-29.6	52.54	54	-1.46	-	-	-	-	271	181	H
* 11.651	40.21	PK2	38.6	-23.5	55.31	-	-	74	-18.69	-	-	46	136	V
* 11.651	33.27	MAv1	38.6	-23.5	48.37	54	-5.63	-	-	-	-	46	136	V

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

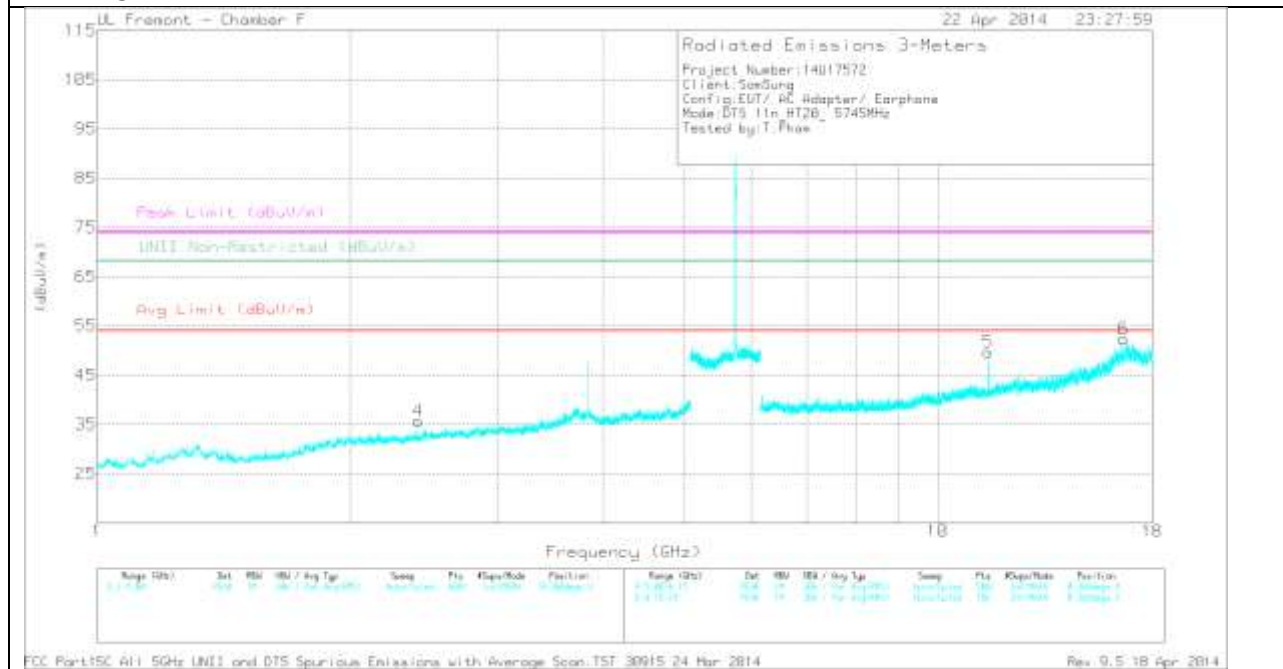
10.2.5. TX ABOVE 1 GHz 802.11n HT20 CDD MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL
VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.83	45.4	PK	34.3	-29.2	50.5	-	-	74	-23.5	-	-	0-360	101	H
4	2.41	34.21	PK	32.3	-30.8	35.71	-	-	-	-	68.2	-32.49	0-360	201	V
2	6.17	32.79	PK	35.4	-26.8	41.39	-	-	-	-	68.2	-26.81	0-360	101	H
3	14.793	28.74	PK	39.8	-21.5	47.04	-	-	-	-	68.2	-21.16	0-360	200	H
5	* 11.491	33.88	PK	38.4	-22.6	49.68	-	-	74	-24.32	-	-	0-360	201	V
6	16.641	28.36	PK	41.3	-17.3	52.36	-	-	-	-	68.2	-15.84	0-360	201	V

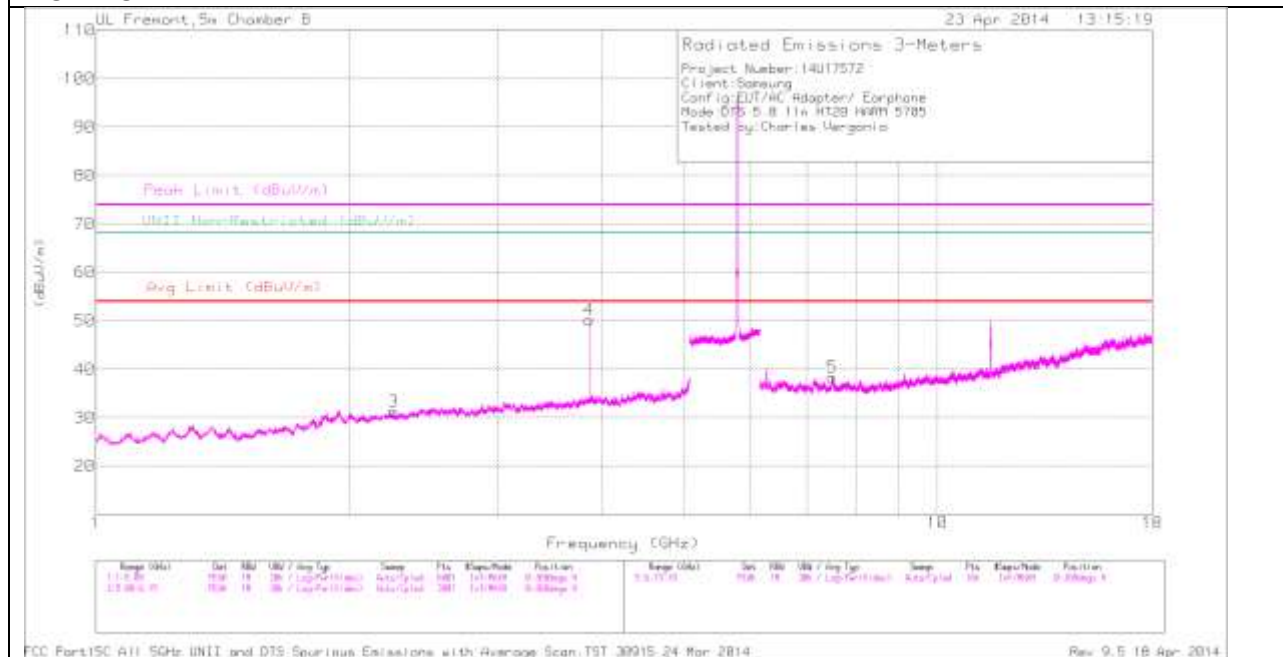
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.83	47.45	PK2	34.3	-29.2	52.55	-	-	74	-21.45	-	-	274	159	H
* 3.83	46.29	MAv1	34.3	-29.2	51.39	54	-2.61	-	-	-	-	274	159	H
* 11.487	41.25	PK2	38.4	-22.8	56.85	-	-	74	-17.15	-	-	39	182	V
* 11.491	27.77	MAv1	38.4	-22.6	43.57	54	-10.43	-	-	-	-	39	182	V

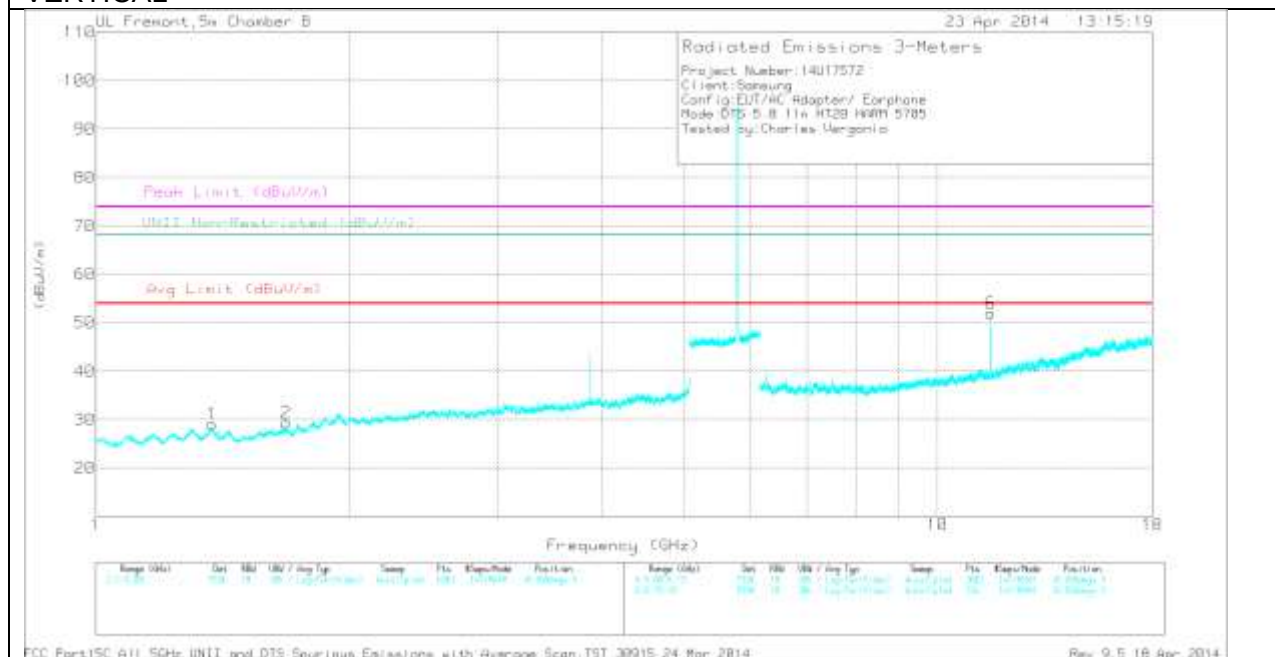
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL
HORIZONTAL



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

MID CHANNEL
VERTICAL



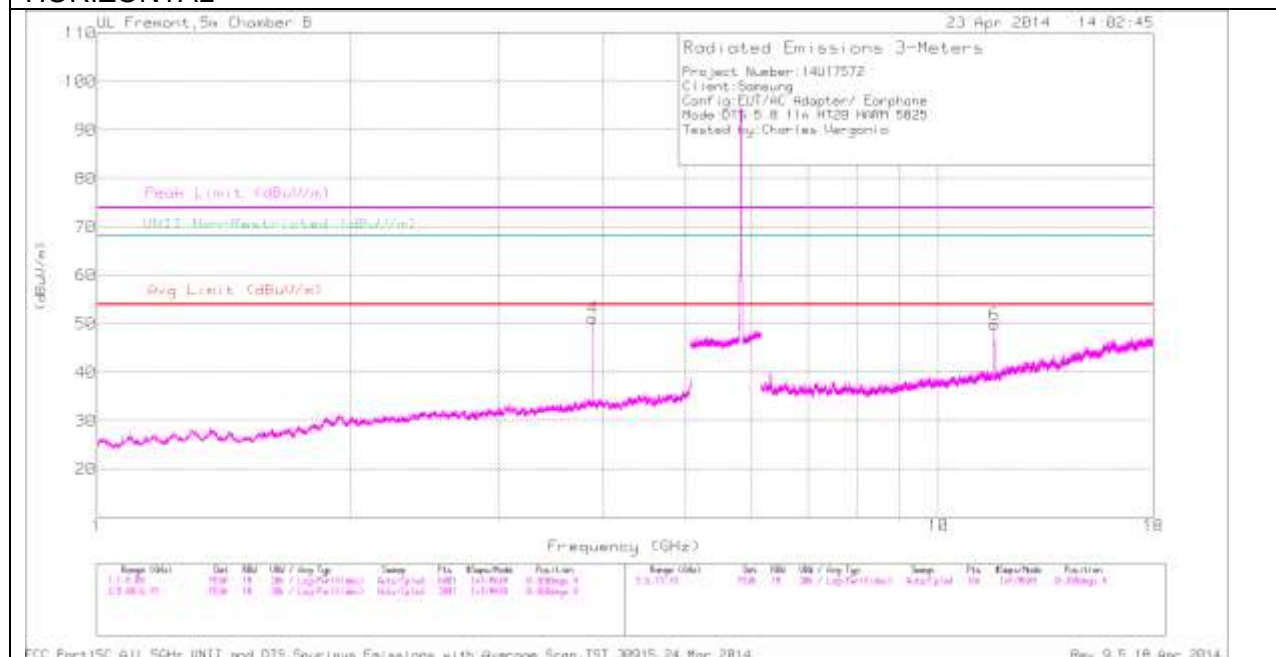
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.26	41.9	PK2	31.5	-32.7	0	40.7	54	-13.3	74	-33.3	-	-	360	100	H
* 3.857	53.08	PK2	33.7	-31.4	0	55.38			74	-18.62	-	-	231	278	H
* 3.857	50.63	MAv1	33.7	-31.4	.6	53.53	54	-47	74	-20.47	-	-	231	278	H
* 1.376	43.67	PK2	28.6	-33.8	0	38.47	54	-15.53	74	-35.53	-	-	360	100	V
* 1.683	42.17	PK2	29	-33.3	0	37.87	54	-16.13	74	-36.13	-	-	360	100	V
* 7.493	37.88	PK2	35.6	-25.7	0	47.78	54	-6.22	74	-26.22	-	-	360	100	H
* 11.568	45.28	PK2	38.1	-22.8	0	60.58			74	-13.42	-	-	274	221	V
* 11.571	33.45	MAv1	38.1	-22.7	.6	49.45	54	-4.55	74	-24.55	-	-	274	221	V

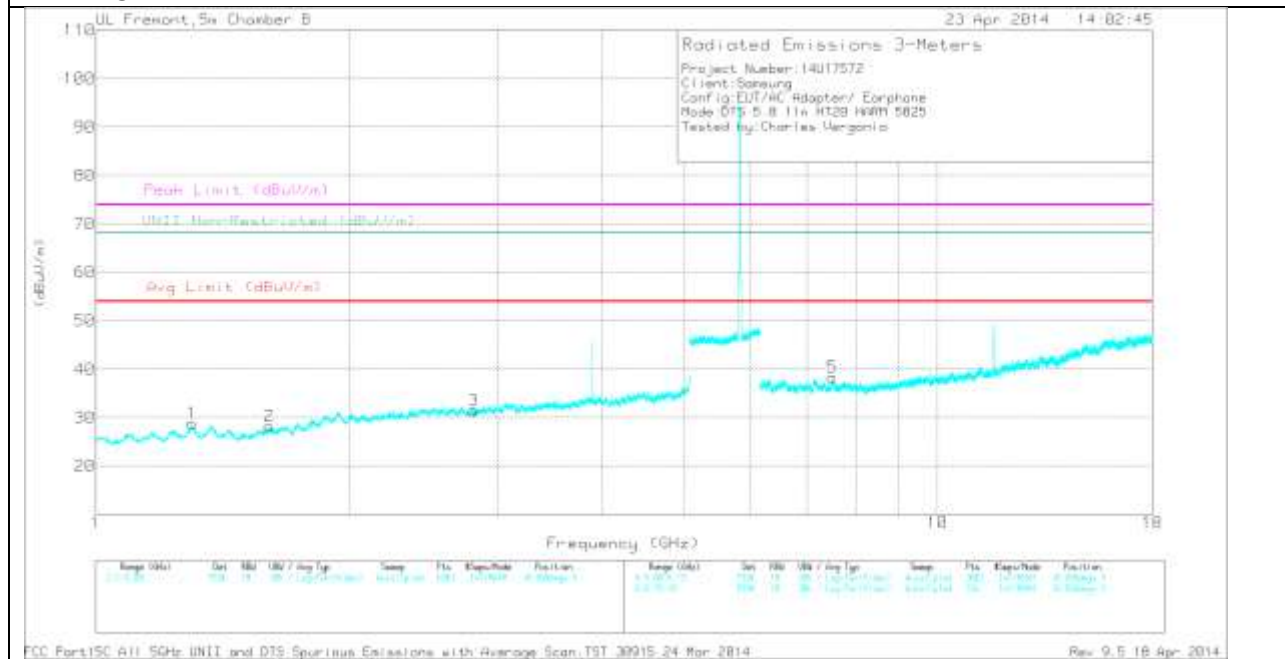
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

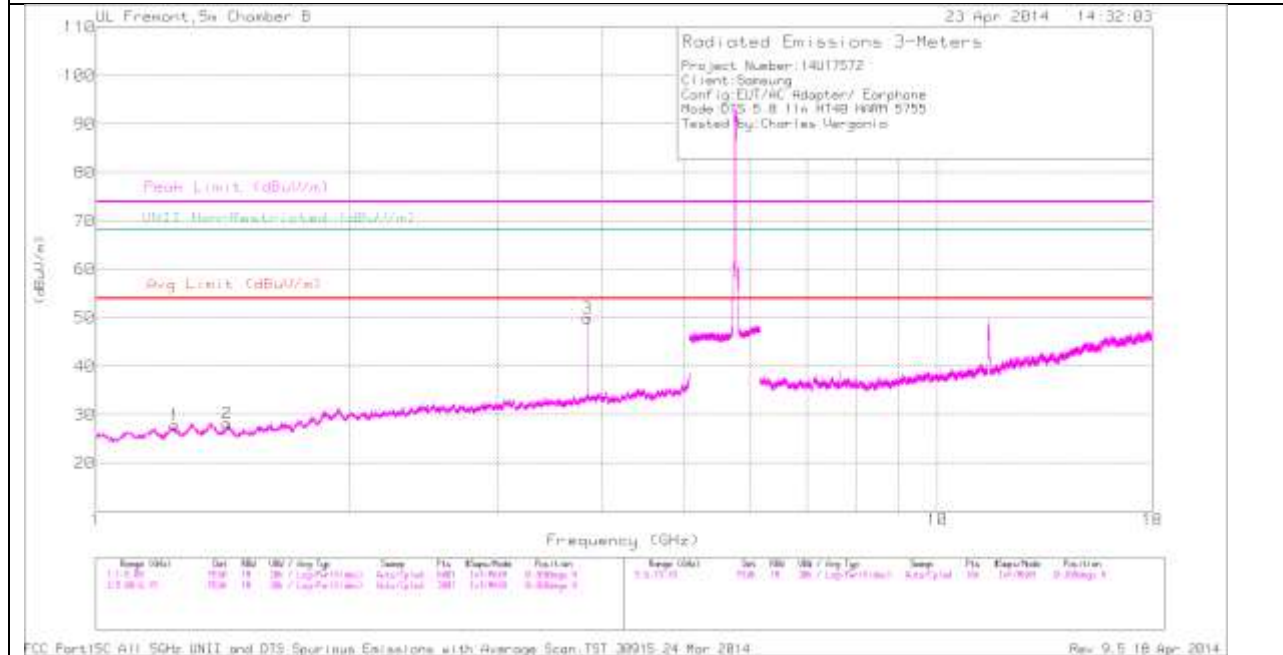
HIGH CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.883	53.54	PK2	33.8	-31.7	55.64			74	-18.36	-	-	249	241	H
* 3.883	51.33	MAv1	33.8	-31.7	53.43	54	-.57	74	-20.57	-	-	249	241	H
* 1.299	42.72	PK2	28.9	-34.2	37.42	54	-16.58	74	-36.58	-	-	359	100	V
* 1.609	41.88	PK2	28.5	-33	37.38	54	-16.62	74	-36.62	-	-	359	100	V
* 2.811	42.12	PK2	32.4	-32.6	41.92	54	-12.08	74	-32.08	-	-	359	100	V
* 11.649	47.64	PK2	38.1	-23.1	62.64			74	-11.36	-	-	321	211	H
* 11.649	34.11	MAv1	38.1	-23.1	49.11	54	-4.89	74	-24.89	-	-	321	211	H
* 7.497	37.97	PK2	35.6	-25.8	47.77	54	-6.23	74	-26.23	-	-	359	100	V

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

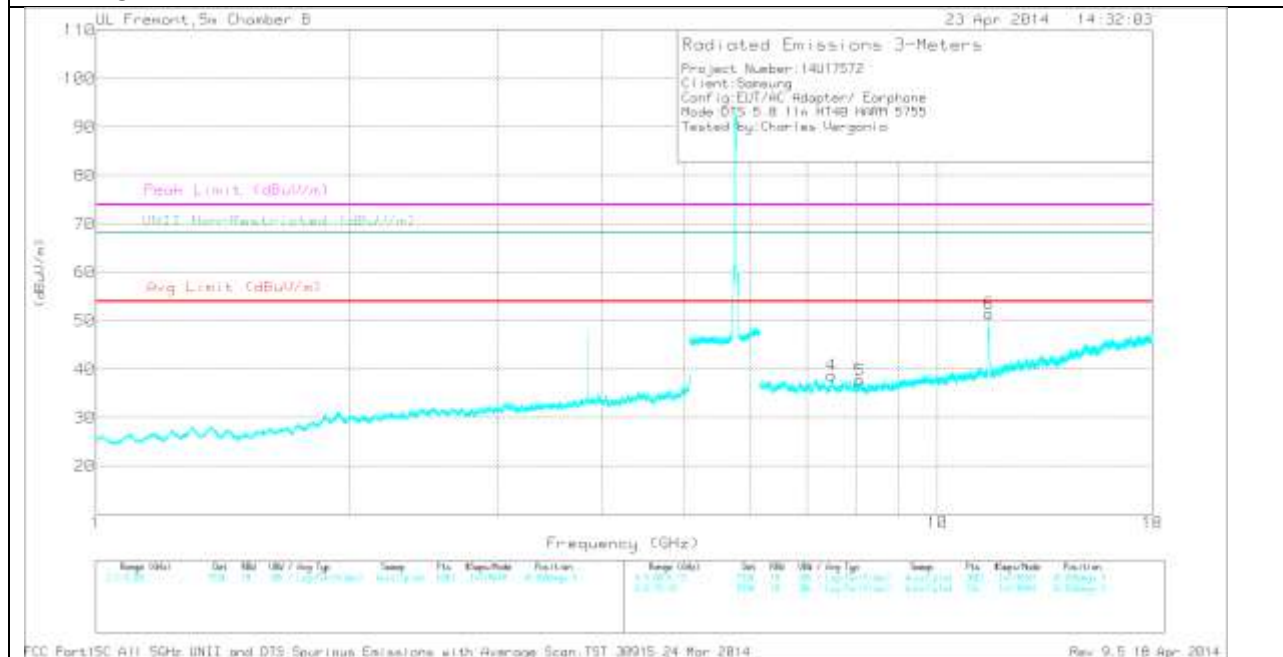
10.2.6. TX ABOVE 1 GHz 802.11n HT40 CDD MODE IN THE 5.8 GHz BAND
HARMONICS AND SPURIOUS EMISSIONS

**MID CHANNEL
HORIZONTAL**



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

MID CHANNEL
VERTICAL



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

MID CHANNEL DATA

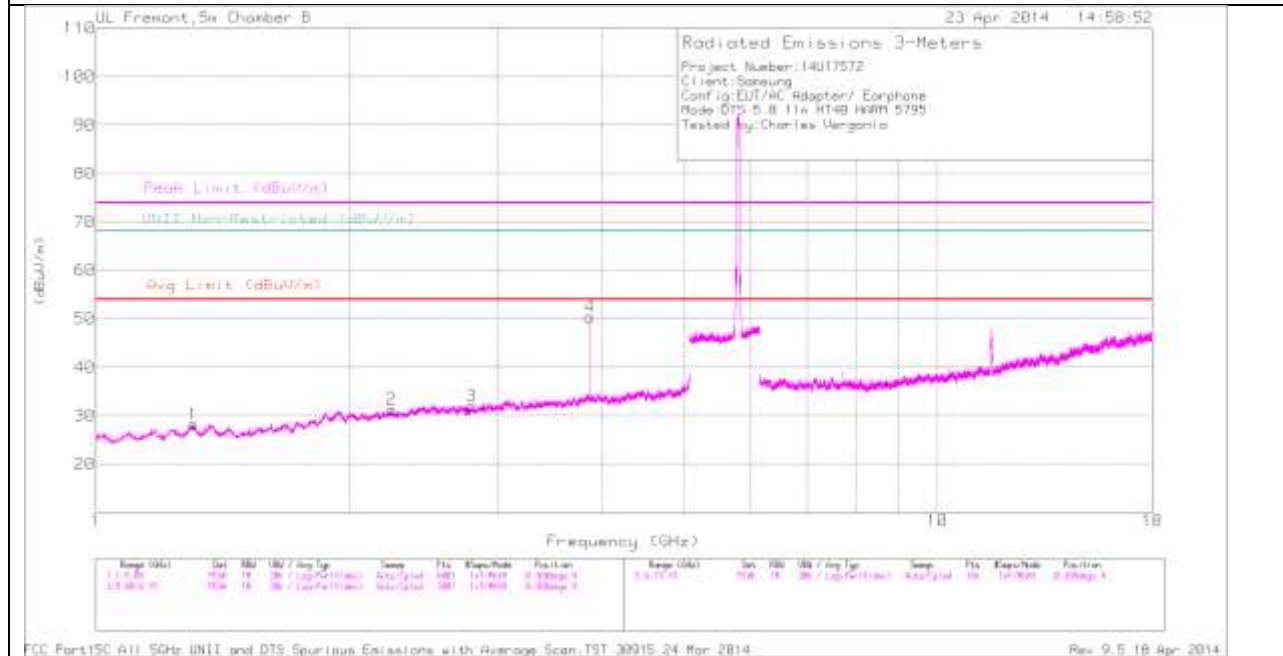
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.24	43.38	PK2	28.5	-34.7	0	37.18	54	-16.82	74	-36.82	-	-	359	100	H
* 3.837	52.06	PK2	33.7	-31.1	0	54.66			74	-19.34	-	-	252	246	H
* 3.837	48.97	MAv1	33.7	-31.1	1.1	52.67	54	-1.33	74	-21.33	-	-	252	246	H
* 7.487	37.93	PK2	35.6	-25.8	0	47.73	54	-6.27	74	-26.27	-	-	359	100	V
* 8.089	38.59	PK2	35.7	-26.4	0	47.89	54	-6.11	74	-26.11	-	-	359	100	V
* 11.511	42.71	PK2	38.1	-22.8	0	58.01			74	-15.99	-	-	232	278	V
* 11.51	29.69	MAv1	38.1	-22.9	1.1	45.99	54	-8.01	74	-28.01	-	-	232	278	V
1.433	43.44	PK2	28.3	-34	0	37.74	54	-	-	-	68.2	-30.46	359	100	H

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

PK2 - KDB558074 Method: Maximum Peak

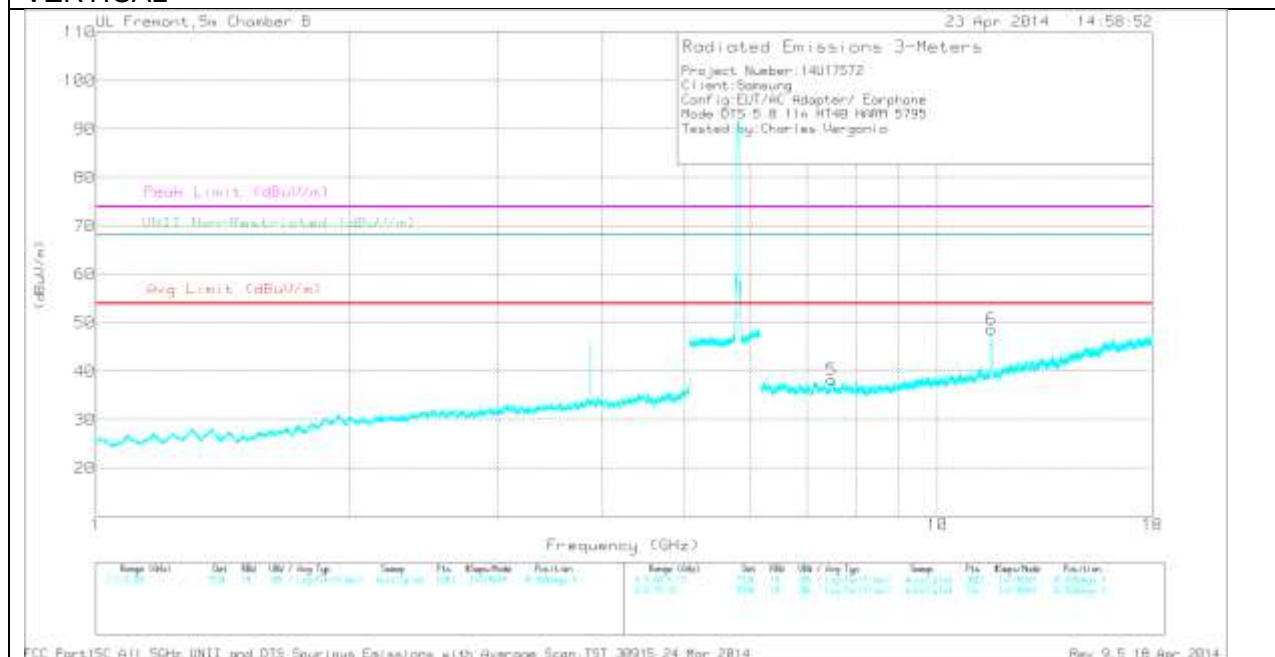
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

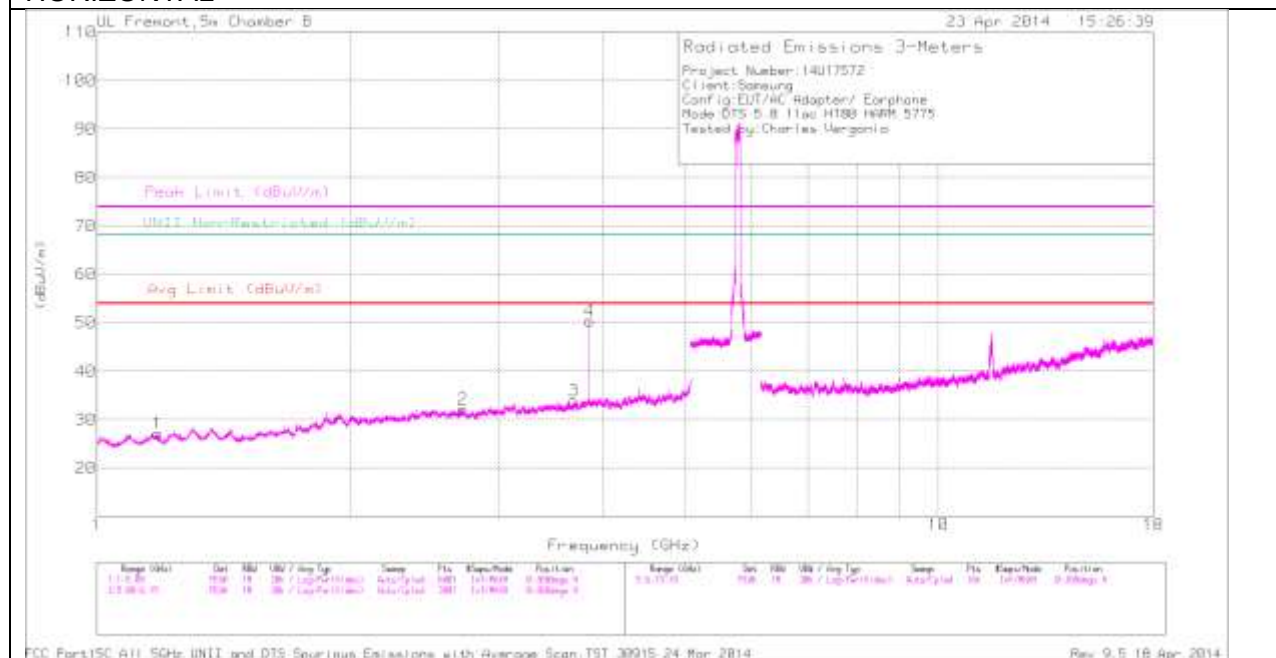
HIGH CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.305	43.67	PK2	28.8	-34.2	0	38.27	54	-15.73	74	-35.73	-	-	360	100	H
* 2.25	42.05	PK2	31.5	-32.5	0	41.05	54	-12.95	74	-32.95	-	-	360	100	H
* 2.794	41.89	PK2	32.3	-32.4	0	41.79	54	-12.21	74	-32.21	-	-	360	100	H
* 3.863	51.54	PK2	33.7	-31.5	0	53.74	54	-0.26	74	-20.26	-	-	239	274	H
* 3.863	48.33	MAv1	33.7	-31.5	1.1	51.63	54	-2.37	-	-	-	-	239	274	H
* 7.491	37.97	PK2	35.6	-25.7	0	47.87	54	-6.13	74	-26.13	-	-	360	100	V
* 11.586	42.39	PK2	38.1	-22.8	0	57.69			74	-16.31	-	-	247	377	V
* 11.586	28.74	MAv1	38.1	-22.8	1.1	45.14	54	-8.86	-	-	-	-	247	377	V

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

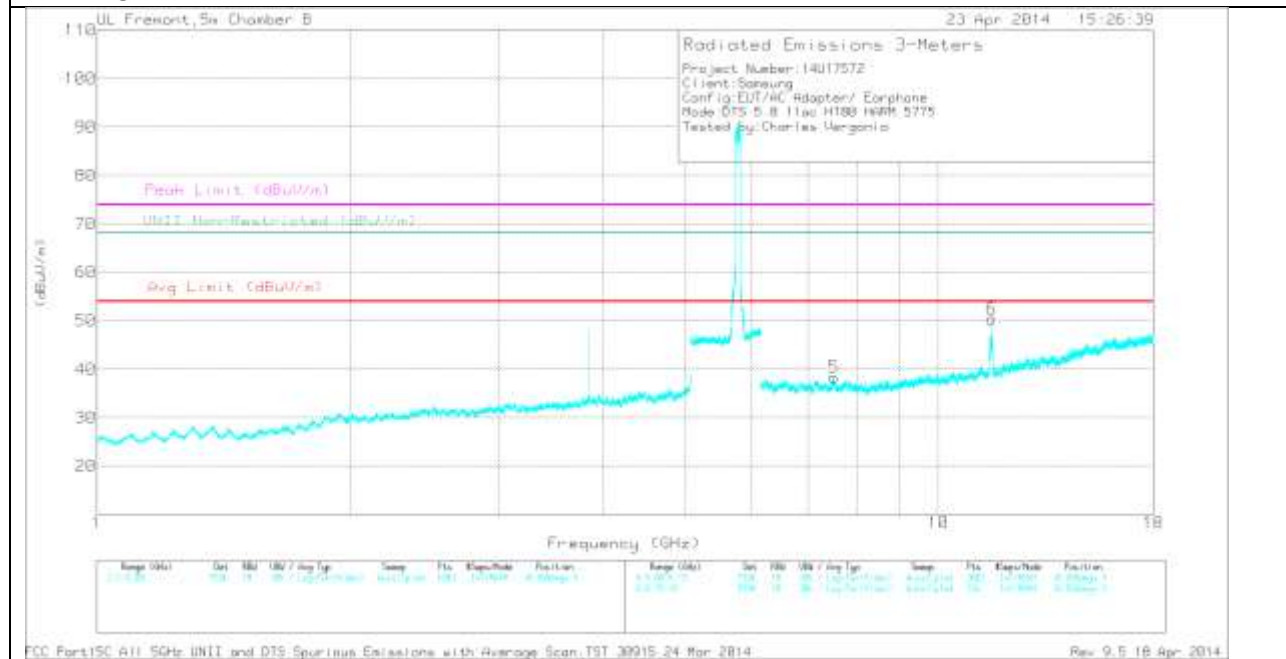
10.2.7. TX ABOVE 1 GHz 802.11ac HT80 CDD MODE IN THE 5.8 GHz BAND
HARMONICS AND SPURIOUS EMISSIONS

HORIZONTAL



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

VERTICAL



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

CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.181	43.29	PK2	28	-34.6	0	36.69	54	-17.31	74	-37.31	-	-	360	100	H
* 2.727	41.78	PK2	32.2	-31.9	0	42.08	54	-11.92	74	-31.92	-	-	360	100	H
* 3.69	41.09	PK2	33.3	-31.3	0	43.09	54	-10.91	74	-30.91	-	-	360	100	H
* 3.85	52.37	PK2	33.7	-31.3	0	54.77			74	-19.23	-	-	242	279	H
* 3.85	48.18	MAv1	33.7	-31.3	1.8	52.38	54	-1.62	-	-	-	-	242	279	H
* 7.514	37.43	PK2	35.6	-26.3	0	46.73	54	-7.27	74	-27.27	-	-	360	100	V
* 11.567	43.87	PK2	38.1	-22.8	0	59.17			74	-14.83	-	-	17	166	V
* 11.565	29.3	MAv1	38.1	-22.8	1.8	46.4	54	-7.6	-	-	-	-	17	166	V

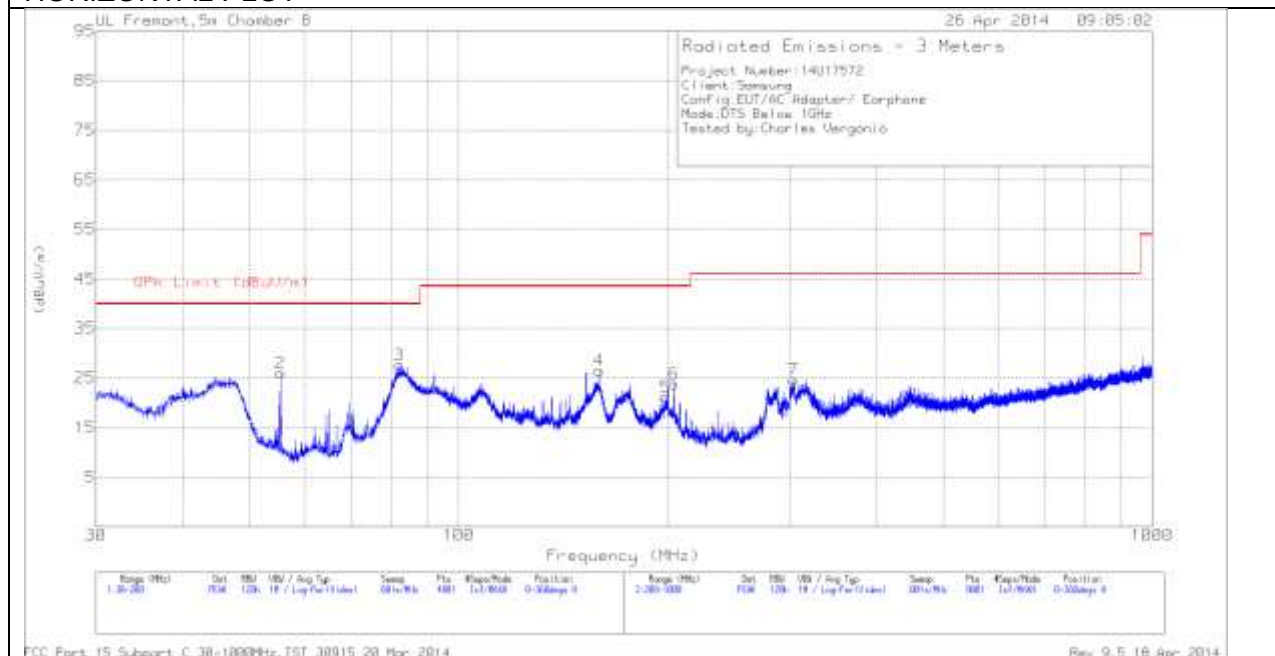
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

RMS - RMS detection

10.3. WORST-CASE BELOW 1 GHz

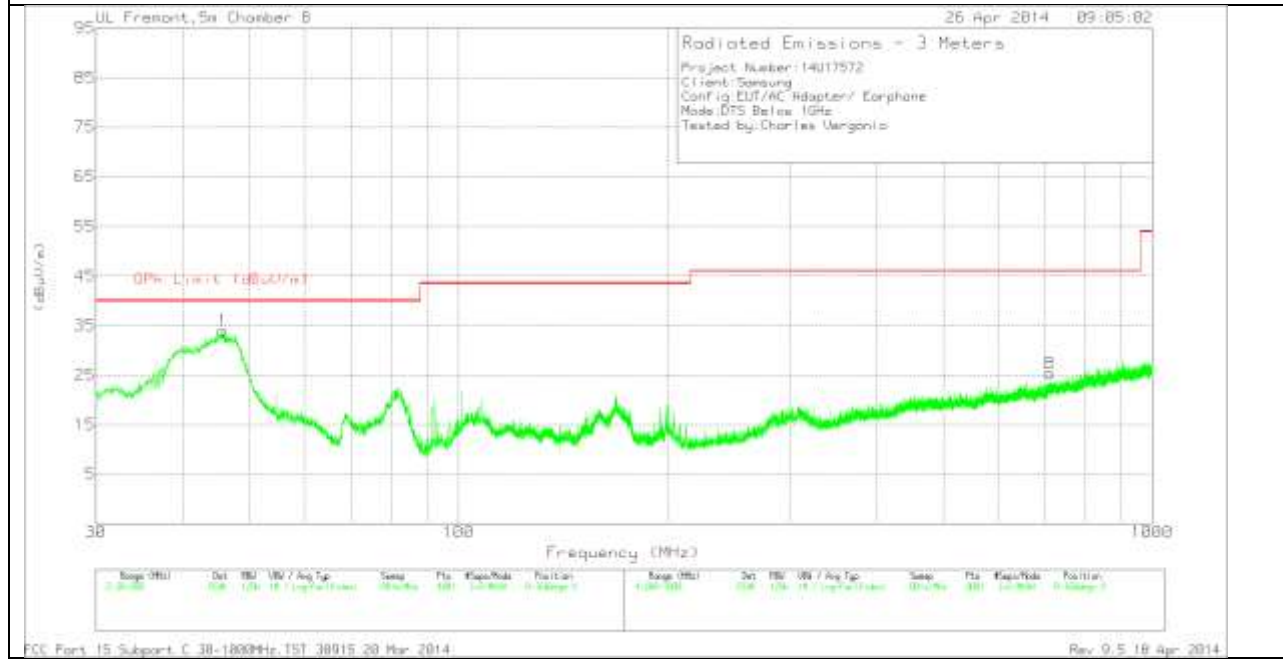
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



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

VERTICAL PLOT



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	45.725	52.96	PK	9.7	-28.7	33.96	40	-6.04	0-360	101	V
2	55.33	47.58	PK	7	-28.6	25.98	40	-14.02	0-360	400	H
3	82.19	48.31	PK	7.5	-28.2	27.61	40	-12.39	0-360	400	H
4	159.37	41.6	PK	12.2	-27.3	26.5	43.52	-17.02	0-360	100	H
5	199.1075	35.81	PK	12.3	-27	21.11	43.52	-22.41	0-360	200	H
6	204.5	39.5	PK	11.2	-26.9	23.8	43.52	-19.72	0-360	200	H
7	304.1	37.37	PK	13.3	-26	24.67	46.02	-21.35	0-360	101	H
8	711.3	29.72	PK	20.2	-24.6	25.32	46.02	-20.7	0-360	200	V

PK - Peak detector