



CERTIFICATION TEST REPORT

Report Number. : 12943451-E4V1

Applicant : APPLE, INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A2218

FCC ID : BCG-E3308A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	8/14/2019	Initial Issue	Francisco Guarnero

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1. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-3) -Un-Restricted bands

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

TEST PROCEDURE

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

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

For 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.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

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.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

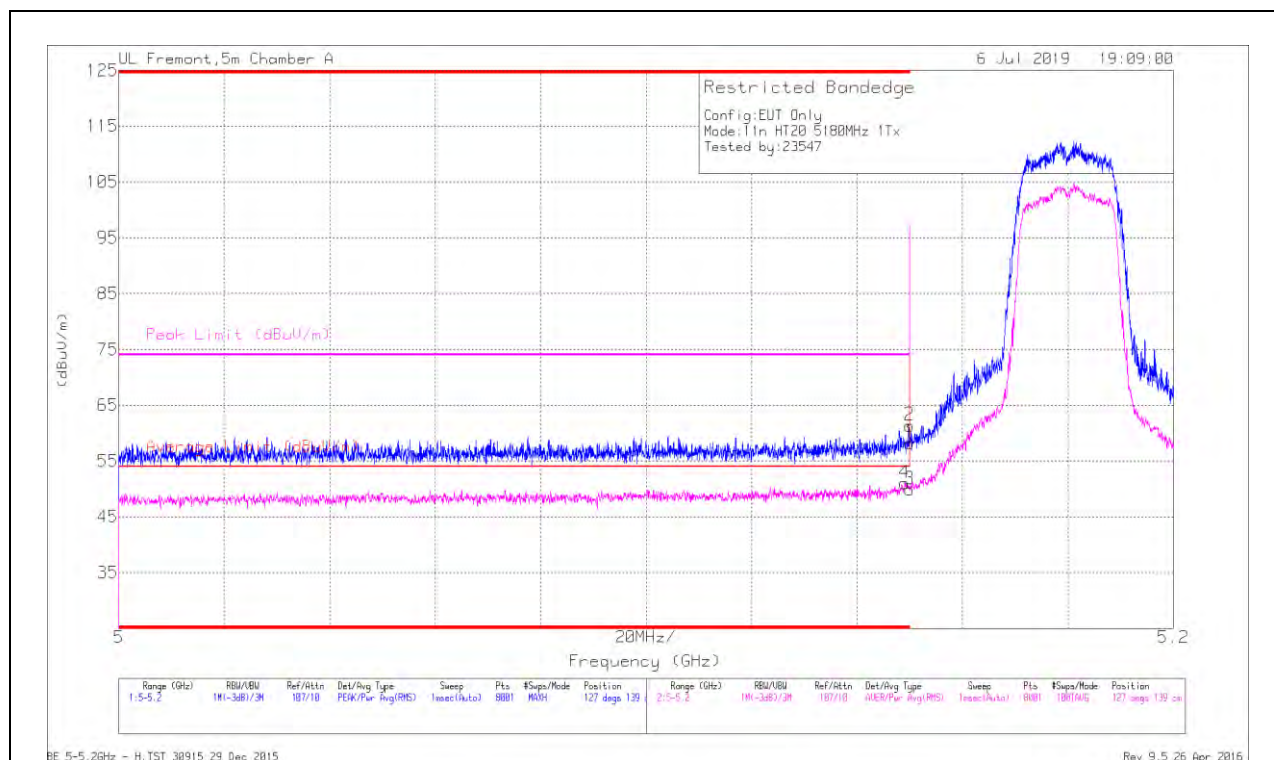
1.1. TRANSMITTER ABOVE 1 GHz

1.1.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



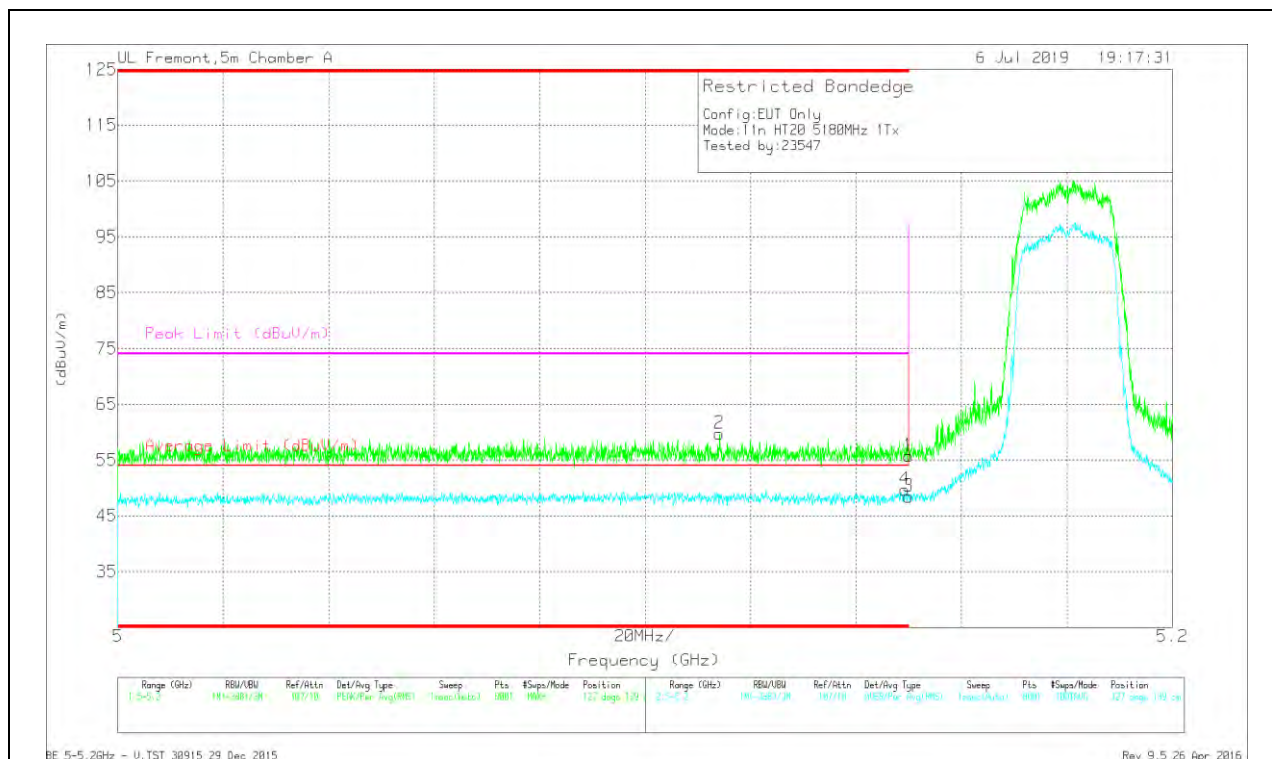
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.15	44.8	Pk	34.6	-18	0	61.4	-	-	74	-12.6	127	139	H
4	* 5.149	34.58	RMS	34.5	-18	0	51.08	54	-2.92	-	-	127	139	H
1	5.15	41.7	Pk	34.6	-18	0	58.3	-	-	74	-15.7	127	139	H
3	5.15	33.28	RMS	34.6	-18	0	49.88	54	-4.12	-	-	127	139	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtri/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	* 5.114	43.35	Pk	34.4	-18	0	59.75	-	-	74	-14.25	127	139	V
4	* 5.149	33.14	RMS	34.5	-18	0	49.64	54	-4.36	-	-	127	139	V
1	5.15	39.21	Pk	34.6	-18	0	55.81	-	-	74	-18.19	127	139	V
3	5.15	31.87	RMS	34.6	-18	0	48.47	54	-5.53	-	-	127	139	V

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

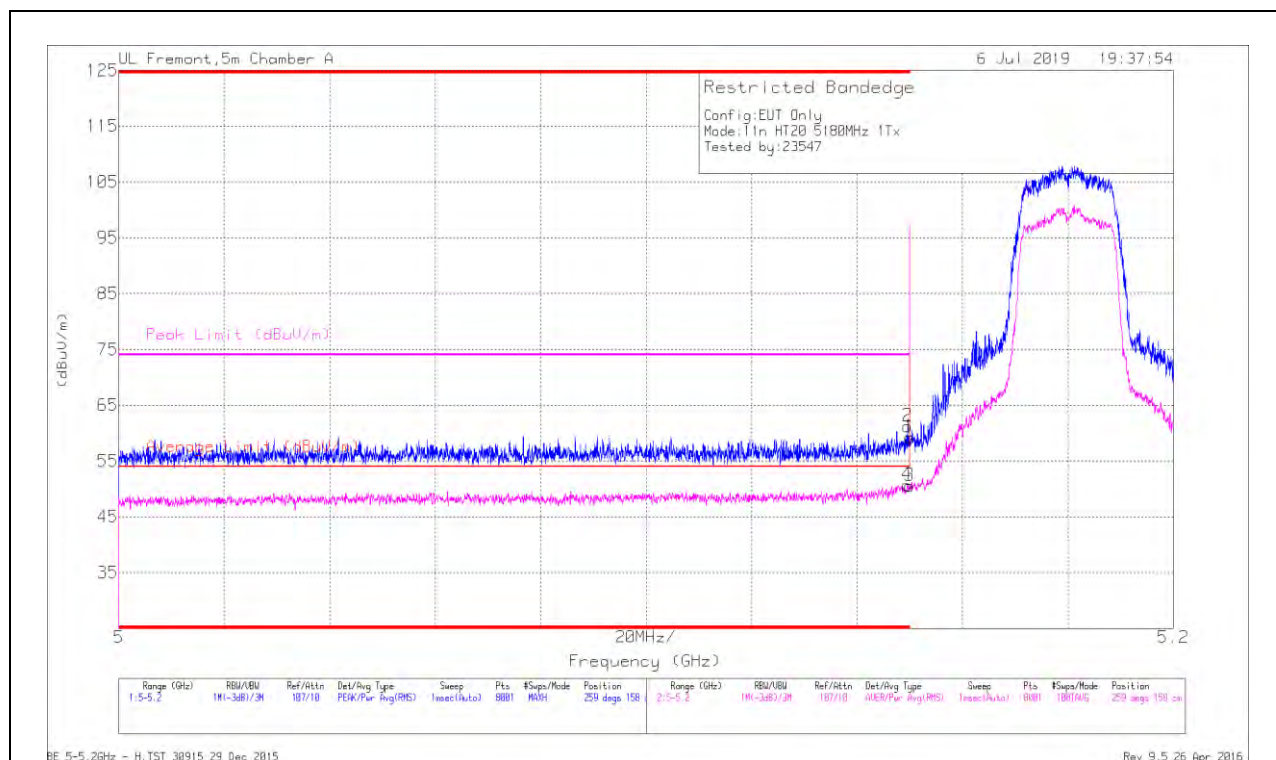
Pk - Peak detector

RMS - RMS detection

1TX Antenna 5 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



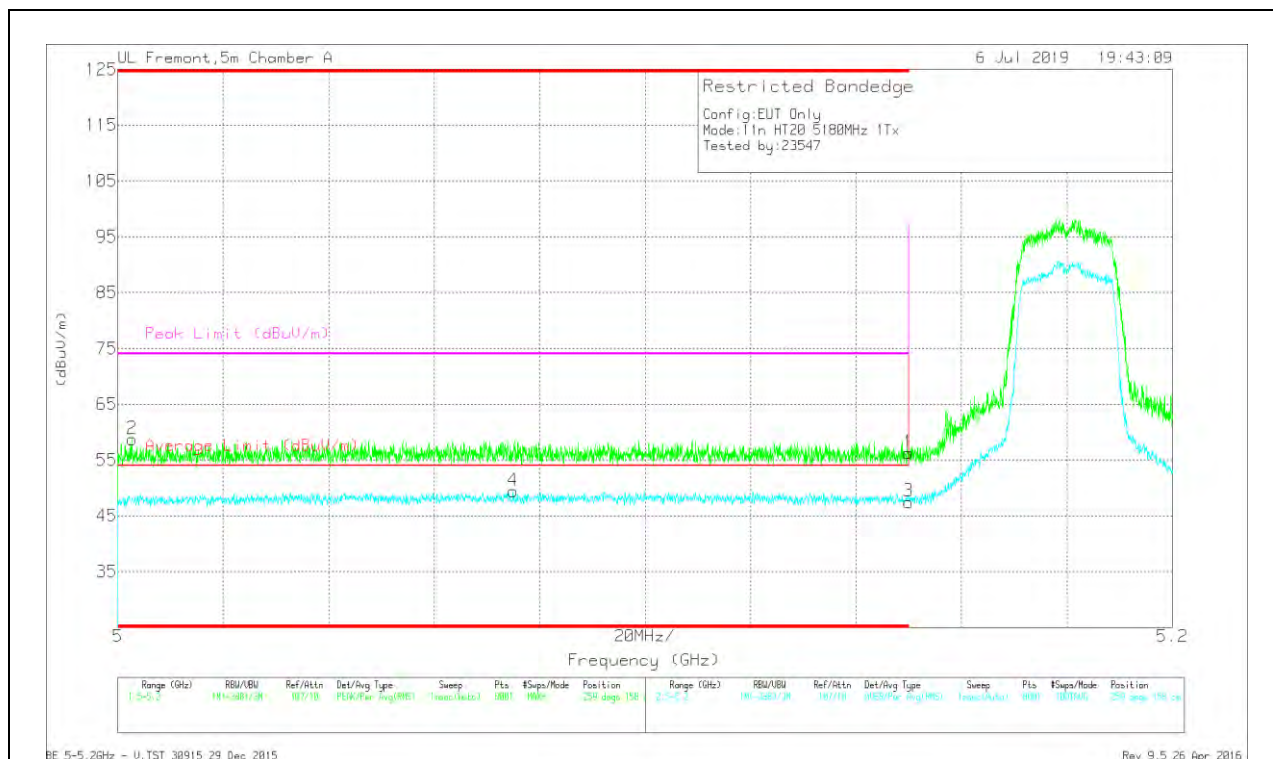
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.15	44.67	Pk	34.5	-18	0	61.17	-	-	74	-12.83	259	158	H
4	* 5.15	34.2	RMS	34.5	-18	0	50.7	54	-3.3	-	-	259	158	H
1	5.15	42.64	Pk	34.6	-18	0	59.24	-	-	74	-14.76	259	158	H
3	5.15	33.91	RMS	34.6	-18	0	50.51	54	-3.49	-	-	259	158	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtri/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	* 5.003	42.67	Pk	34.3	-18.2	0	58.77	-	-	74	-15.23	259	158	V
4	* 5.075	33.18	RMS	34.3	-18.1	0	49.38	54	-4.62	-	-	259	158	V
1	5.15	39.66	Pk	34.6	-18	0	56.26	-	-	74	-17.74	259	158	V
3	5.15	30.9	RMS	34.6	-18	0	47.5	54	-6.5	-	-	259	158	V

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

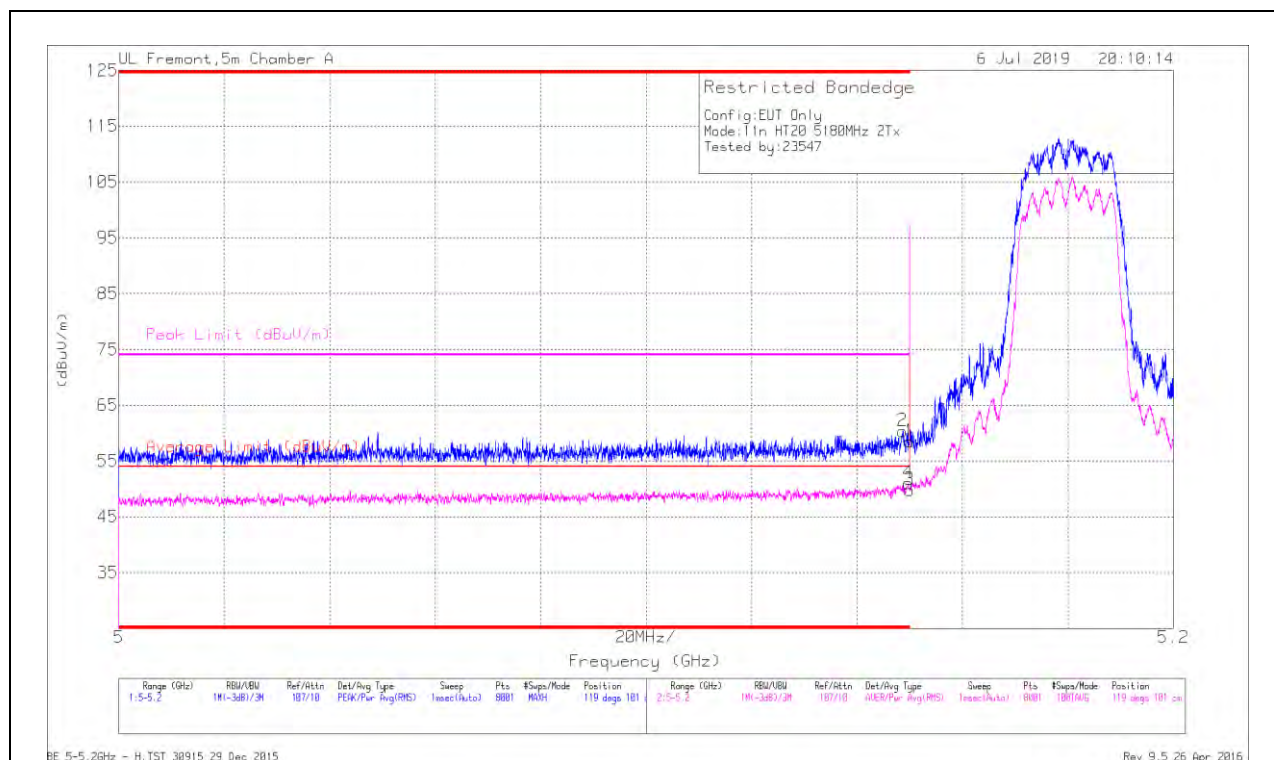
Pk - Peak detector

RMS - RMS detection

2TX Antenna 6 + Antenna 5 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



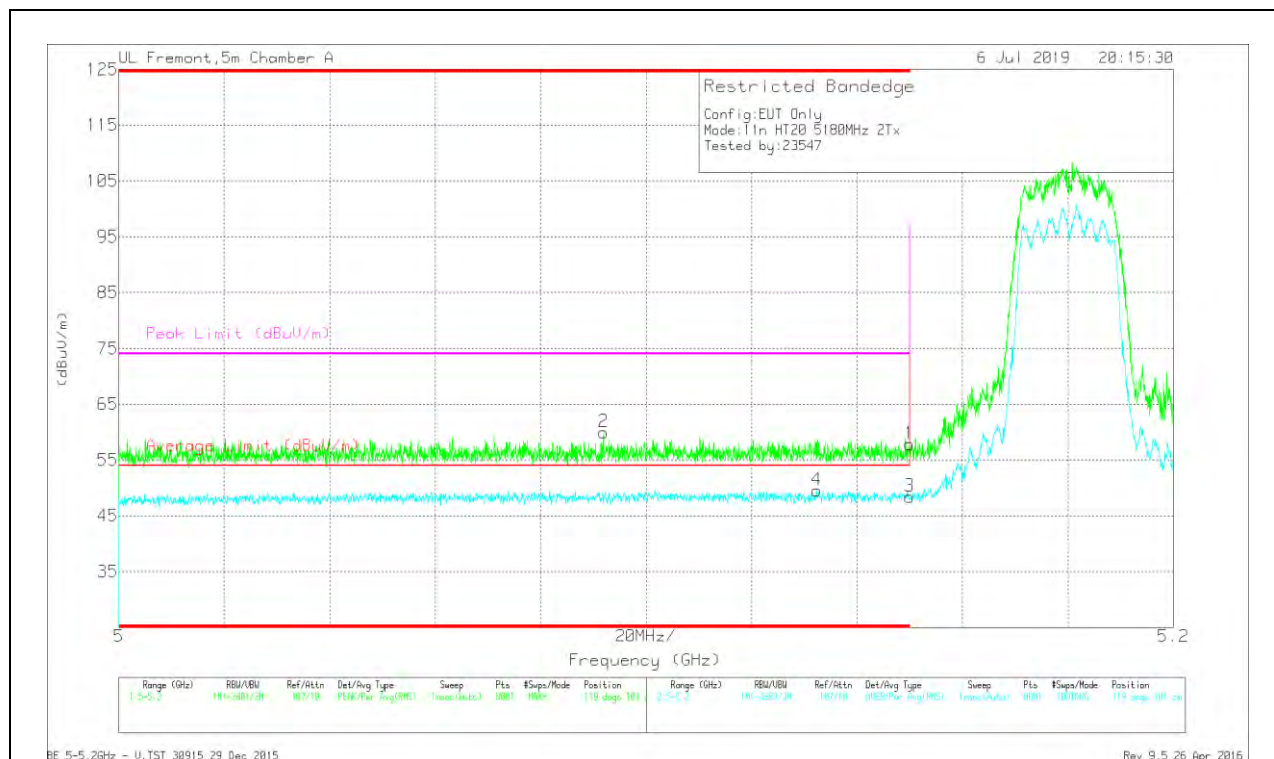
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	43.85	Pk	34.5	-18	0	60.35	-	-	74	-13.65	119	101	H
4	* 5.15	34.42	RMS	34.6	-18	0	51.02	54	-2.98	-	-	119	101	H
1	5.15	41.85	Pk	34.6	-18	0	58.45	-	-	74	-15.55	119	101	H
3	5.15	33.19	RMS	34.6	-18	0	49.79	54	-4.21	-	-	119	101	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.092	43.63	Pk	34.4	-18.1	0	59.93	-	-	74	-14.07	119	101	V
4	* 5.132	33.1	RMS	34.5	-18	0	49.6	54	-4.4	-	-	119	101	V
1	5.15	41.23	Pk	34.6	-18	0	57.83	-	-	74	-16.17	119	101	V
3	5.15	31.84	RMS	34.6	-18	0	48.44	54	-5.56	-	-	119	101	V

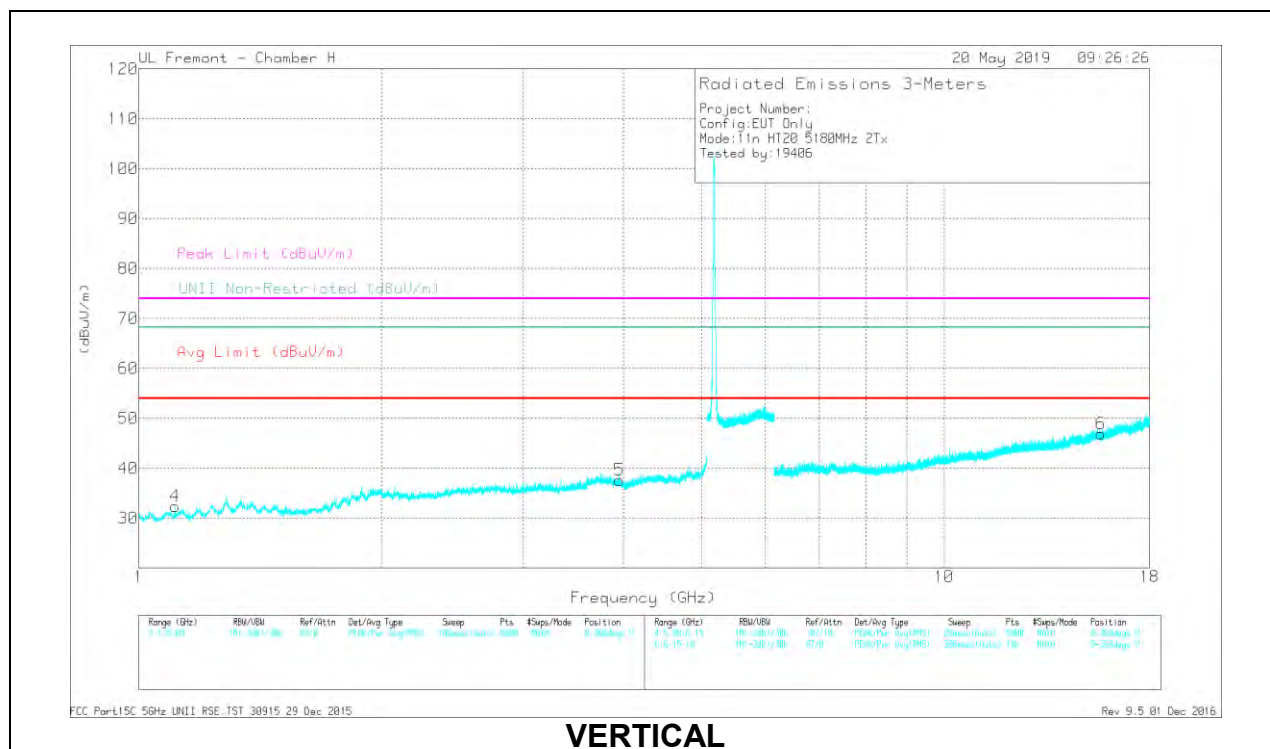
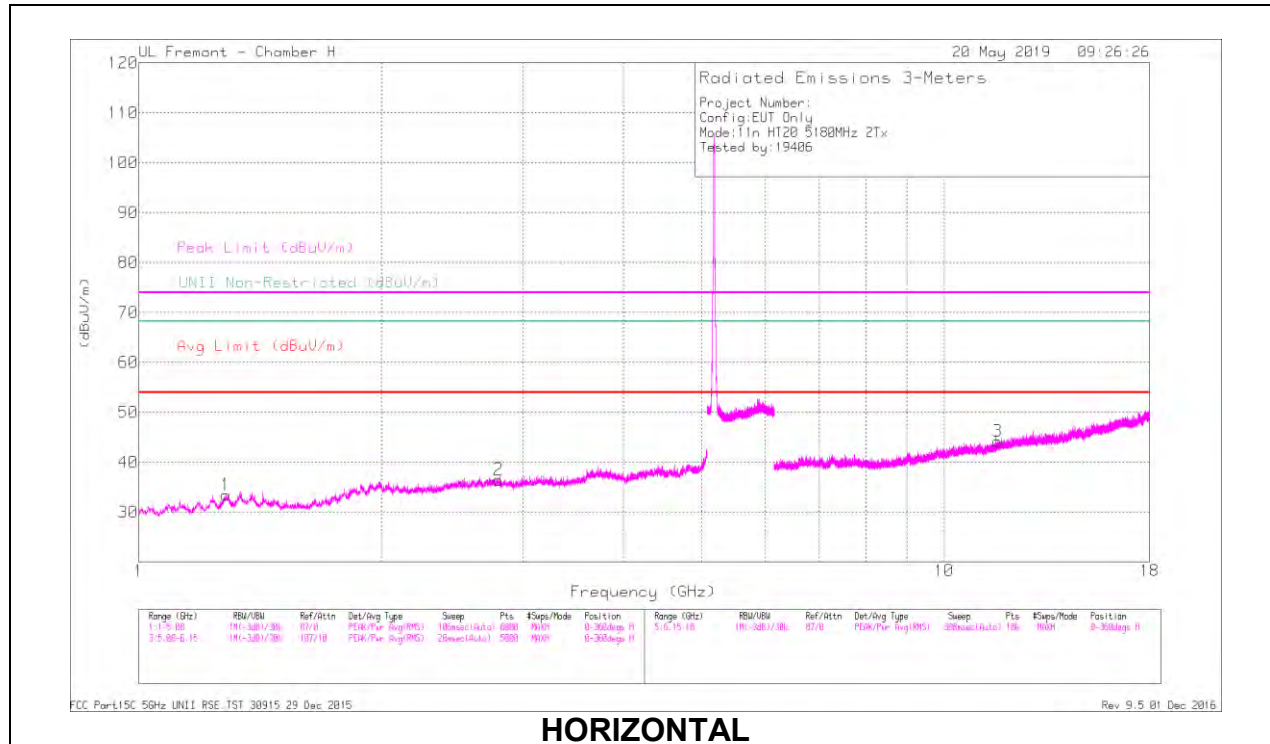
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

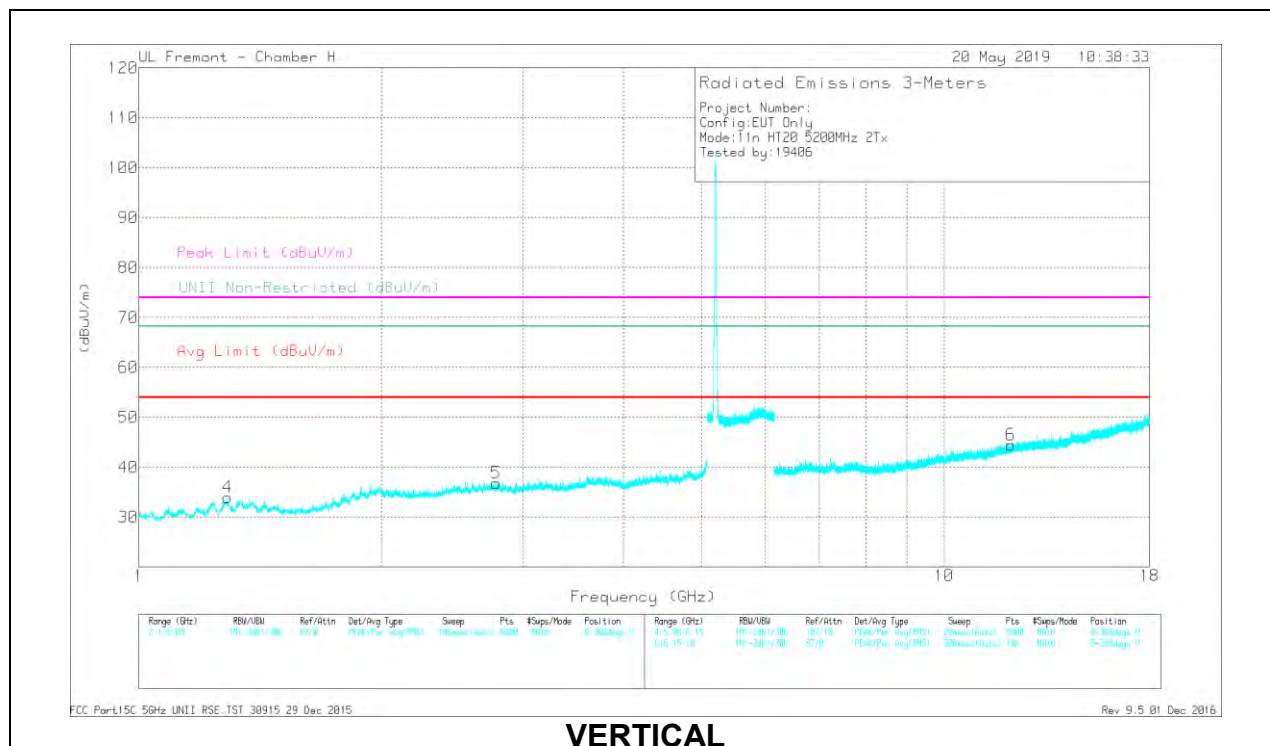
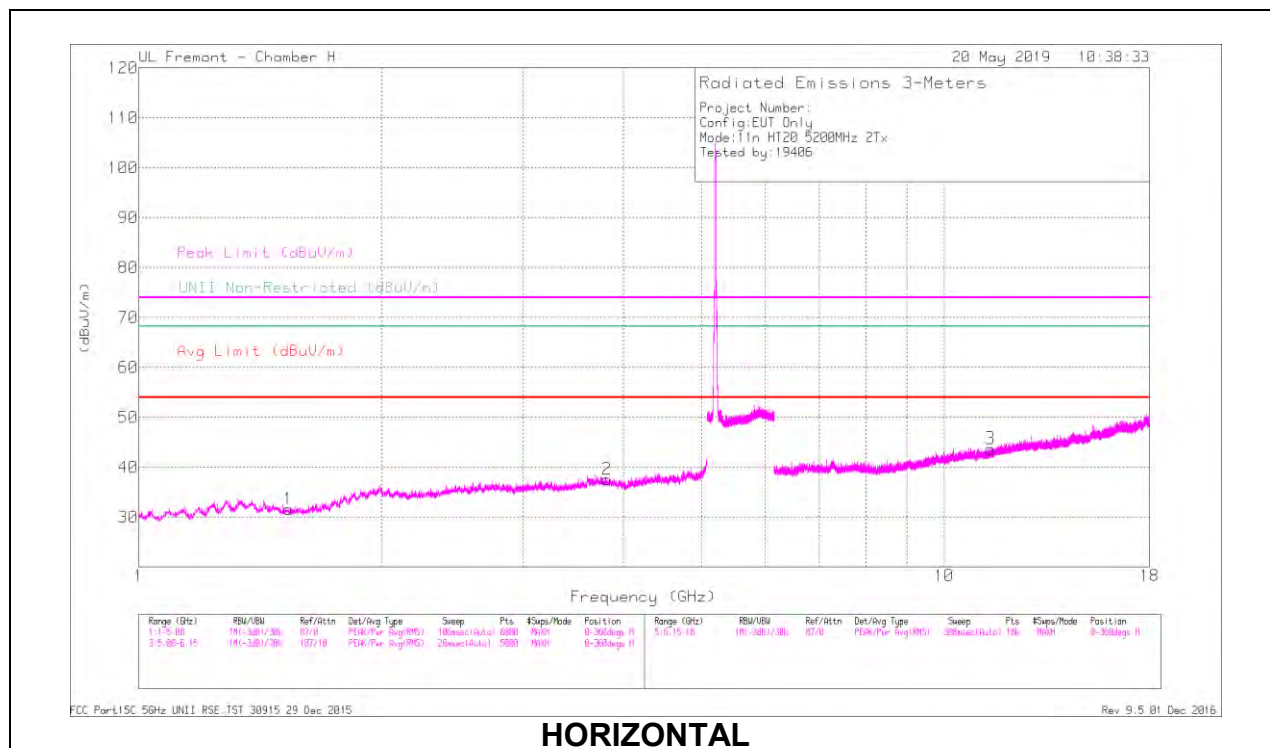
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.284	45.15	PK-U	29.2	-32.9	0	41.45	-	-	74	-32.55	-	-	75	188	H
	* 1.283	32.85	ADR	29.2	-32.9	0	29.15	54	-24.85	-	-	-	-	75	188	H
2	* 2.795	43.18	PK-U	32.6	-31.8	0	43.98	-	-	74	-30.02	-	-	132	326	H
	* 2.795	31.41	ADR	32.6	-31.8	0	32.21	54	-21.79	-	-	-	-	132	326	H
4	* 1.111	44.55	PK-U	27.5	-33.2	0	38.85	-	-	74	-35.15	-	-	10	277	V
	* 1.111	32.3	ADR	27.5	-33.2	0	26.6	54	-27.4	-	-	-	-	10	277	V
5	* 3.953	42.39	PK-U	33.3	-30.7	0	44.99	-	-	74	-29.01	-	-	322	117	V
	* 3.953	30.43	ADR	33.3	-30.7	0	33.03	54	-20.97	-	-	-	-	322	117	V
3	* 11.651	36.11	PK-U	38.5	-23.1	0	51.51	-	-	74	-22.49	-	-	83	230	H
	* 11.651	23.87	ADR	38.5	-23	0	39.37	54	-14.63	-	-	-	-	83	230	H
6	* 15.659	37	PK-U	40.7	-22.7	0	55	-	-	74	-19	-	-	286	164	V
	* 15.658	24.51	ADR	40.7	-22.8	0	42.41	54	-11.59	-	-	-	-	286	164	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

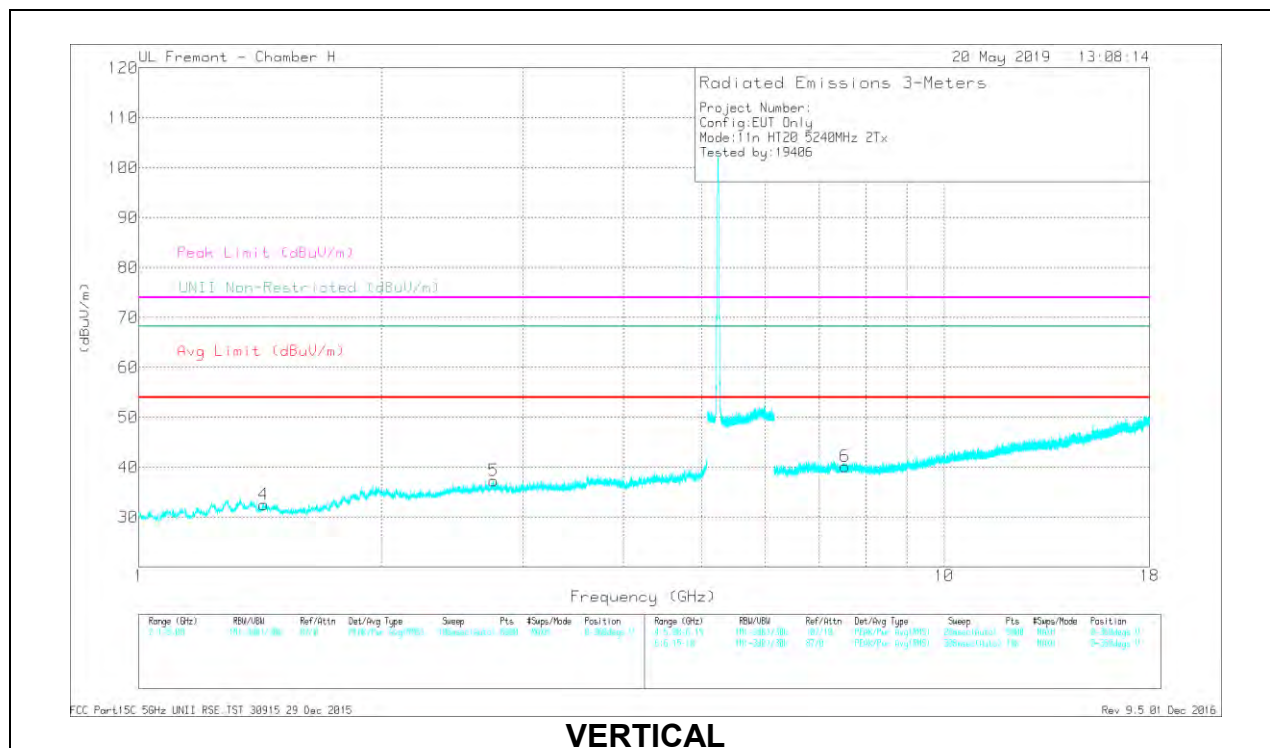
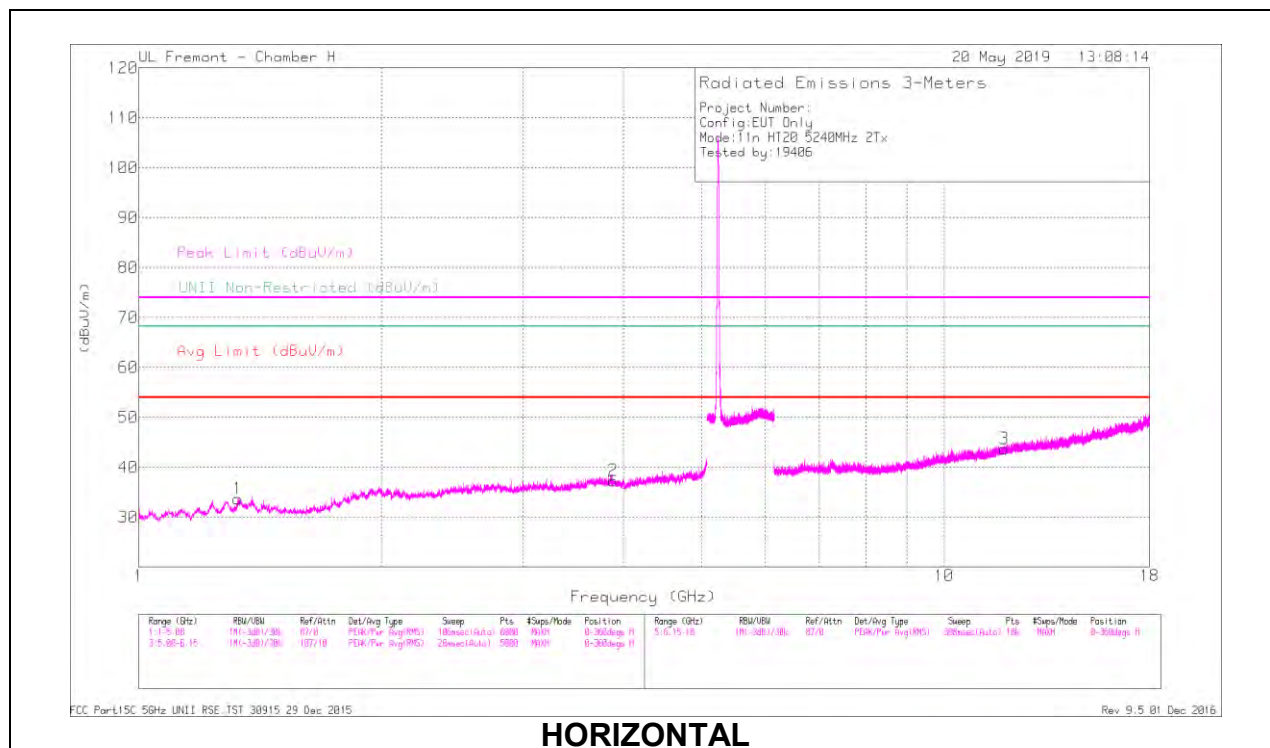
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.532	44.05	PK-U	27.9	-32.7	0	39.25	-	-	74	-34.75	-	-	173	182	H
	* 1.533	32.11	ADR	27.9	-32.7	0	27.31	54	-26.69	-	-	-	-	173	182	H
2	* 3.819	42.08	PK-U	33.4	-30.8	0	44.68	-	-	74	-29.32	-	-	91	364	H
	* 3.822	30.19	ADR	33.4	-30.7	0	32.89	54	-21.11	-	-	-	-	91	364	H
4	* 1.291	45	PK-U	29.3	-32.9	0	41.4	-	-	74	-32.6	-	-	265	173	V
	* 1.288	32.77	ADR	29.2	-32.9	0	29.07	54	-24.93	-	-	-	-	265	173	V
5	* 2.777	43.05	PK-U	32.5	-31.7	0	43.85	-	-	74	-30.15	-	-	308	303	V
	* 2.779	31.12	ADR	32.5	-31.7	0	31.92	54	-22.08	-	-	-	-	308	303	V
3	* 11.417	36.13	PK-U	38.2	-23.6	0	50.73	-	-	74	-23.27	-	-	113	376	H
	* 11.419	24.25	ADR	38.2	-23.6	0	38.85	54	-15.15	-	-	-	-	113	376	H
6	* 12.1	36.08	PK-U	39	-23.5	0	51.58	-	-	74	-22.42	-	-	0	110	V
	* 12.101	24.23	ADR	39	-23.5	0	39.73	54	-14.27	-	-	-	-	0	110	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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	* 1.329	44.17	PK-U	29.1	-32.8	0	40.47	-	-	74	-33.53	-	-	129	312	H
	* 1.329	32.4	ADR	29.1	-32.8	0	28.7	54	-25.3	-	-	-	-	129	312	H
2	* 3.888	41.74	PK-U	33.4	-30.5	0	44.64	-	-	74	-29.36	-	-	97	135	H
	* 3.888	30.36	ADR	33.4	-30.5	0	33.26	54	-20.74	-	-	-	-	97	135	H
5	* 2.757	44.12	PK-U	32.5	-31.8	0	44.82	-	-	74	-29.18	-	-	131	292	V
	* 2.758	31.23	ADR	32.5	-31.8	0	31.93	54	-22.07	-	-	-	-	131	292	V
3	* 11.873	36.15	PK-U	38.7	-23.4	0	51.45	-	-	74	-22.55	-	-	96	187	H
	* 11.875	24.84	ADR	38.7	-23.4	0	40.14	54	-13.86	-	-	-	-	96	187	H
6	* 7.529	38.51	PK-U	36.6	-27.3	0	47.81	-	-	74	-26.19	-	-	60	222	V
	* 7.531	27.06	ADR	36.6	-27.3	0	36.36	54	-17.64	-	-	-	-	60	222	V
4	1.43	33	ADR	28.6	-33	0	28.6	-	-	-	-	-	-	319	116	V
	1.431	44.26	PK-U	28.6	-33	0	39.86	-	-	-	-	68.2	-28.34	319	116	V

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

PK-U - U-NII: Maximum Peak

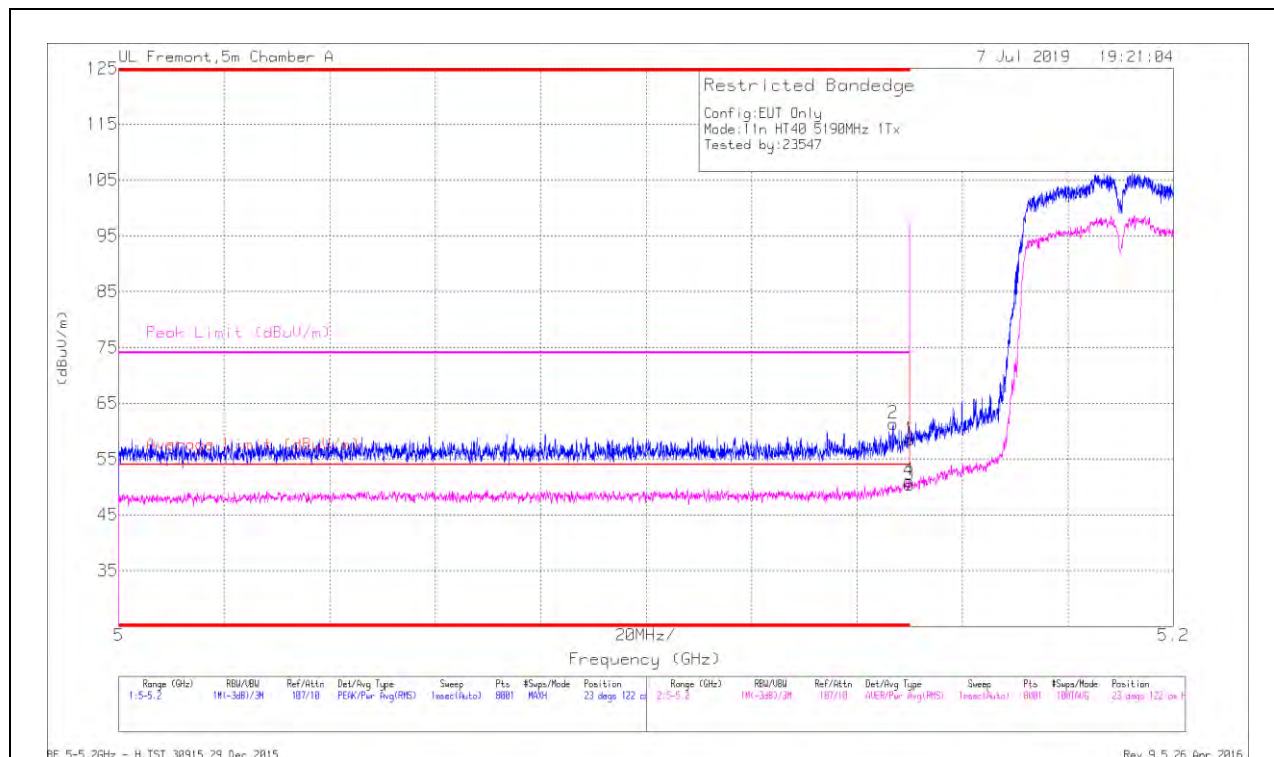
ADR - U-NII AD primary method, RMS average

1.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



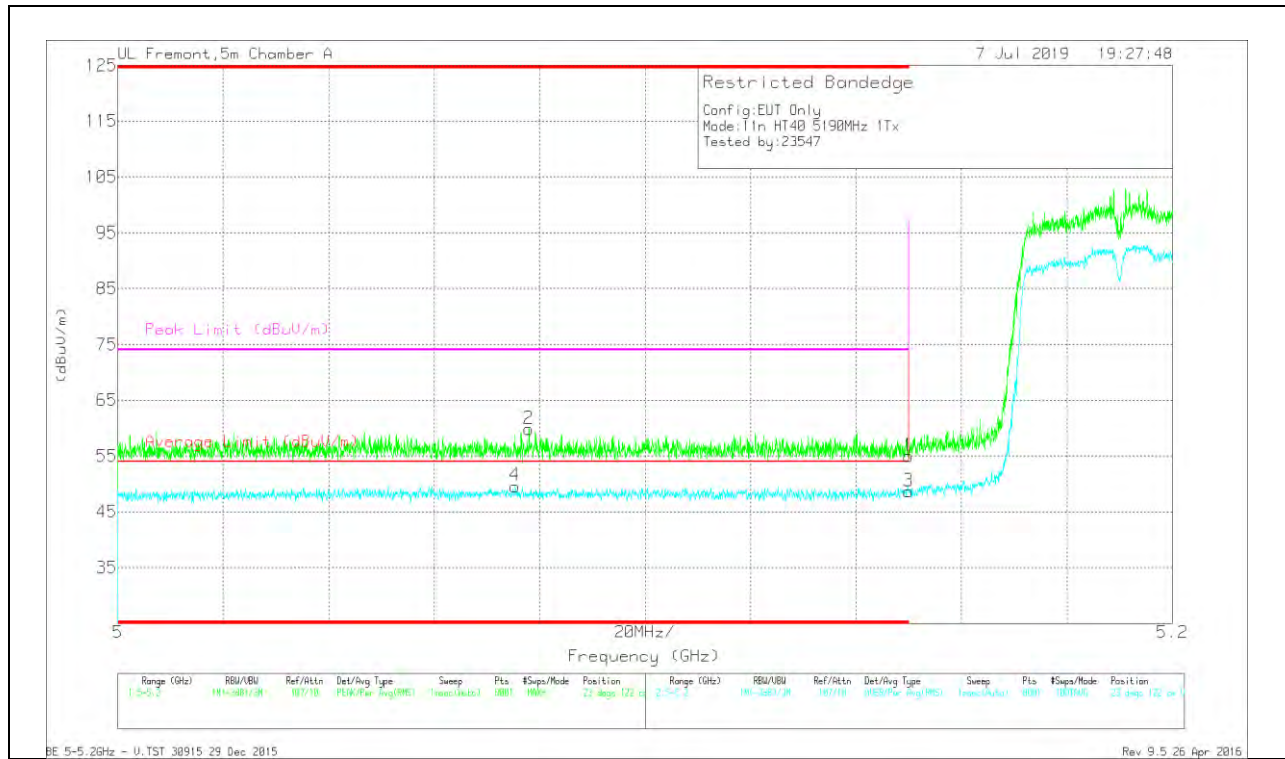
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	41.86	Pk	34.6	-18	0	58.46	-	-	74	-15.54	23	122	H
2	* 5.147	44.88	Pk	34.5	-18	0	61.38	-	-	74	-12.62	23	122	H
3	5.15	33.86	RMS	34.6	-18	0.12	50.58	54	-3.42	-	-	23	122	H
4	* 5.15	34.49	RMS	34.6	-18	0.12	51.21	54	-2.79	-	-	23	122	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.078	43.58	Pk	34.4	-18.1	0	59.88	-	-	74	-14.12	23	122	V
4	* 5.075	33.41	RMS	34.3	-18.1	0.12	49.73	54	-4.27	-	-	23	122	V
1	5.15	38.42	Pk	34.6	-18	0	55.02	-	-	74	-18.98	23	122	V
3	5.15	32.12	RMS	34.6	-18	0.12	48.84	54	-5.16	-	-	23	122	V

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

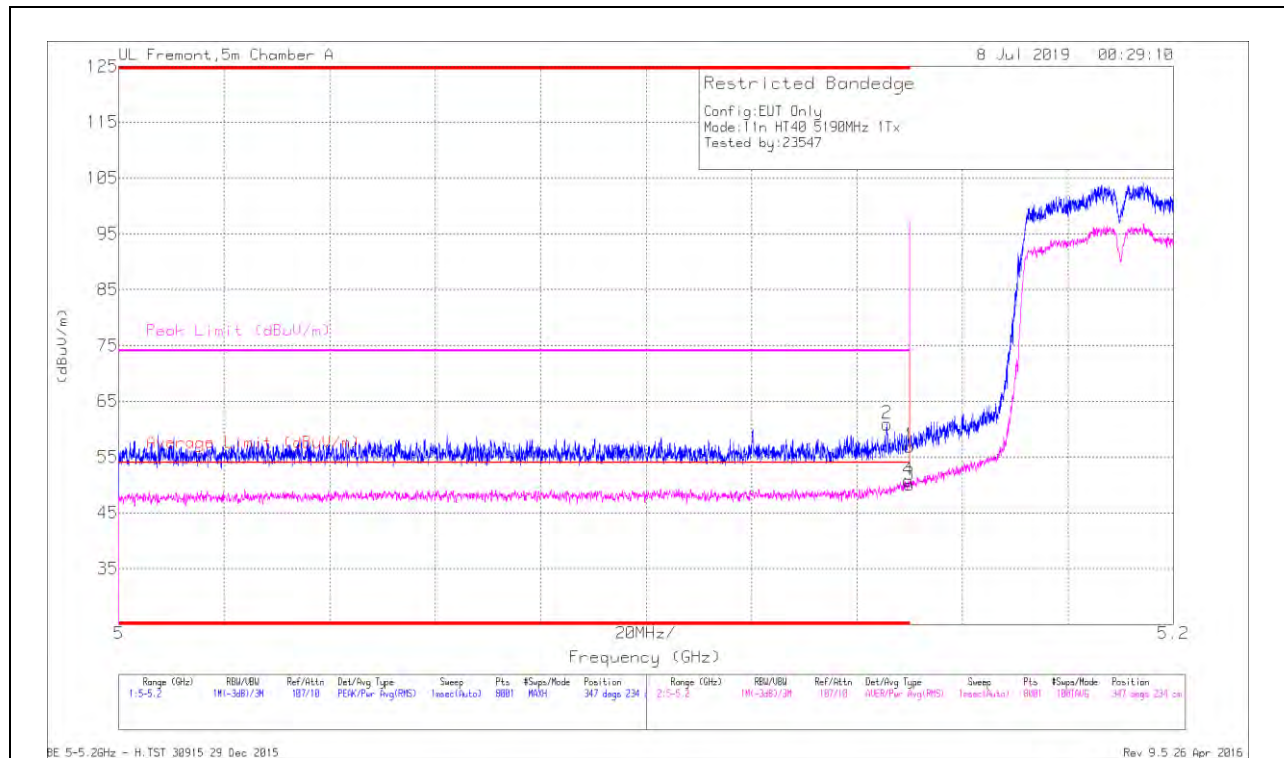
Pk - Peak detector

RMS - RMS detection

1TX Antenna 5 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.146	44.41	Pk	34.5	-18	0	60.91	-	-	74	-13.09	347	234	H
4	* 5.15	34.21	RMS	34.6	-18	0.12	50.93	54	-3.07	-	-	347	234	H
1	5.15	40.33	Pk	34.6	-18	0	56.93	-	-	74	-17.07	347	234	H
3	5.15	33.49	RMS	34.6	-18	0.12	50.21	54	-3.79	-	-	347	234	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont, 5m Chamber A

8 Jul 2019 00:40:56

Restricted Bandedge

Config: EUT Only
Mode: 1 In HT40 5310MHz 1Tx
Tested by: 23547

Peak Limit (dBu/m)

Average Limit (dBu/m)

2

3

20MHz/

Frequency (GHz)

Range (GHz)	RBW/ABW	Ref/BW	Det/Avg Type	Sweep	Pts	#Sups/Mode	Position	Range (GHz)	RBW/ABW	Ref/BW	Det/Avg Type	Sweep	Pts	#Sups/Mode	Position
1-5.2	100/30000	10/710	PEAK/Avg	10000000	1000	1000	347 deg 234	1-5.2	100/30000	10/710	10000000	10000000	1000	1000	347 deg 234

RF 5-5.2GHz - U.TST 30915_29 Dec 2015

Rev 9.5.26 Apr 2016

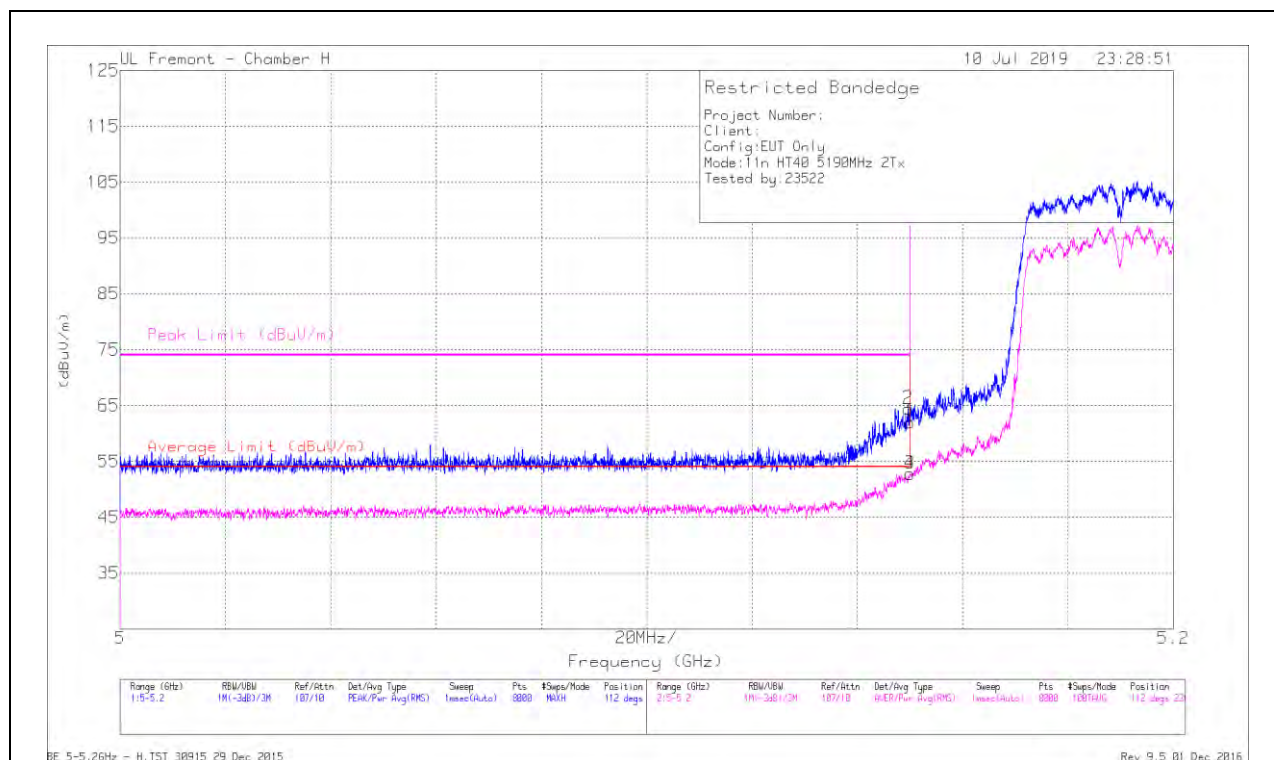
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt/r/P ad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.11	43.14	Pk	34.4	-18	0	59.54	-	-	74	-14.46	347	234	V
4	* 5.047	33.24	RMS	34.4	-18.1	0.12	49.66	54	-4.34	-	-	347	234	V
1	5.15	39.09	Pk	34.6	-18	0	55.69	-	-	74	-18.31	347	234	V
3	5.15	31.43	RMS	34.6	-18	0.12	48.15	54	-5.85	-	-	347	234	V

Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 CDD MODE

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	48.49	Pk	34.4	-20.9	0	61.99	-	-	74	-12.01	112	236	H
2	* 5.15	50.91	Pk	34.4	-20.9	0	64.41	-	-	74	-9.59	112	236	H
3	* 5.15	39.28	RMS	34.4	-20.9	0.09	52.87	54	-1.13	-	-	112	236	H
4	* 5.15	39.29	RMS	34.4	-20.9	0.09	52.88	54	-1.12	-	-	112	236	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber H

10 Jul 2019 23:41:24

Restricted Bandedge

Project Number:
Client:
Config: EUT Only
Mode: 1 in HT40 5190MHz 2Tx
Tested by: 23522

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

20MHz/

Frequency (GHz)

Range (GHz) RBW/NBW Ref/Attn Det/Avg Type Sweep Pts #Sups/Mode Position

5.0-5.2 100/30dB/20 100/10 PEAK/Freq Avg(PRS) 1000000 1000 1000 100 deg

Range (GHz) RBW/NBW Ref/Attn Det/Avg Type Sweep Pts #Sups/Mode Position

5.0-5.2 100/30dB/20 100/10 PEAK/Freq Avg(PRS) 1000000 1000 1000 100 deg

BE 5-5.26Hz - U.TST 30915 29 Dec 2015

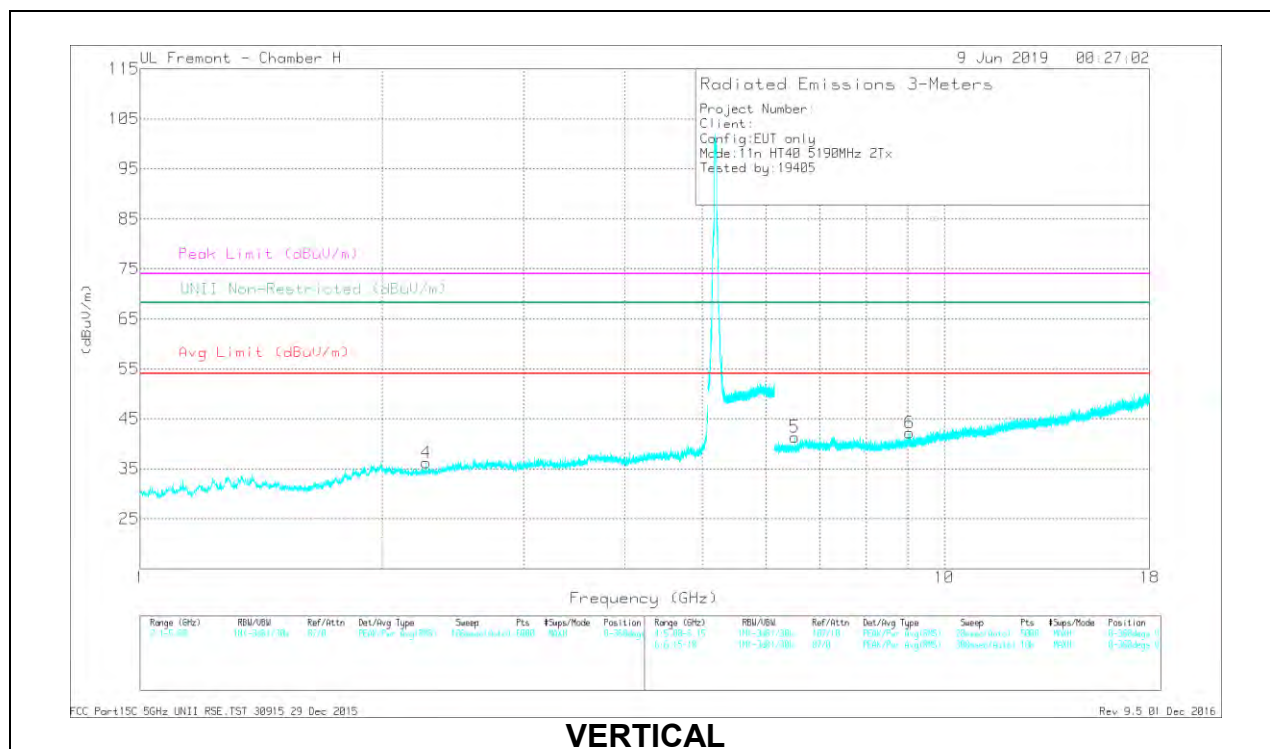
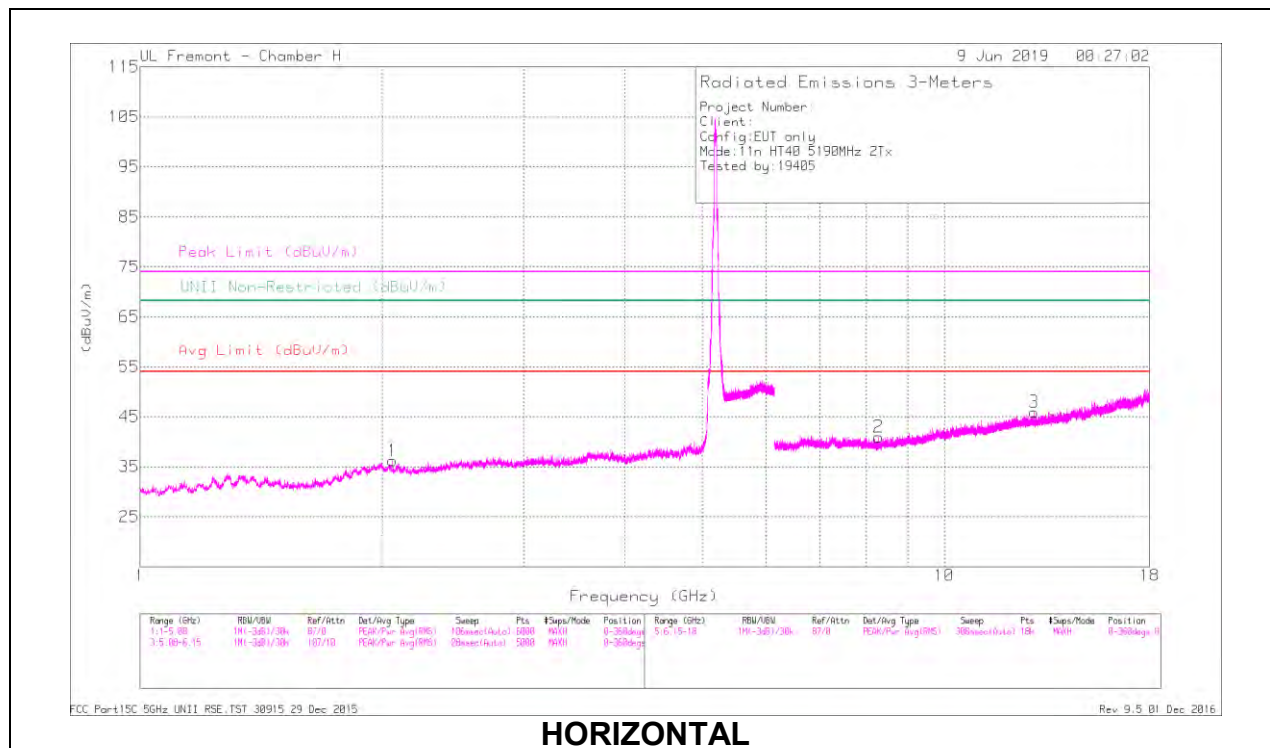
Rev 9.5 01 Dec 2015

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cal/Filt/rP ad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.11	Pk	34.4	-20.9	0	60.61	-	-	74	-13.39	162	111	V
2	* 5.145	52.25	Pk	34.3	-21	0	65.55	-	-	74	-8.45	162	111	V
3	* 5.15	39.56	RMS	34.4	-20.9	0.09	53.15	54	-8.5	-	-	162	111	V
4	* 5.149	40.52	RMS	34.3	-21	0.09	53.91	54	-0.9	-	-	162	111	V

Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

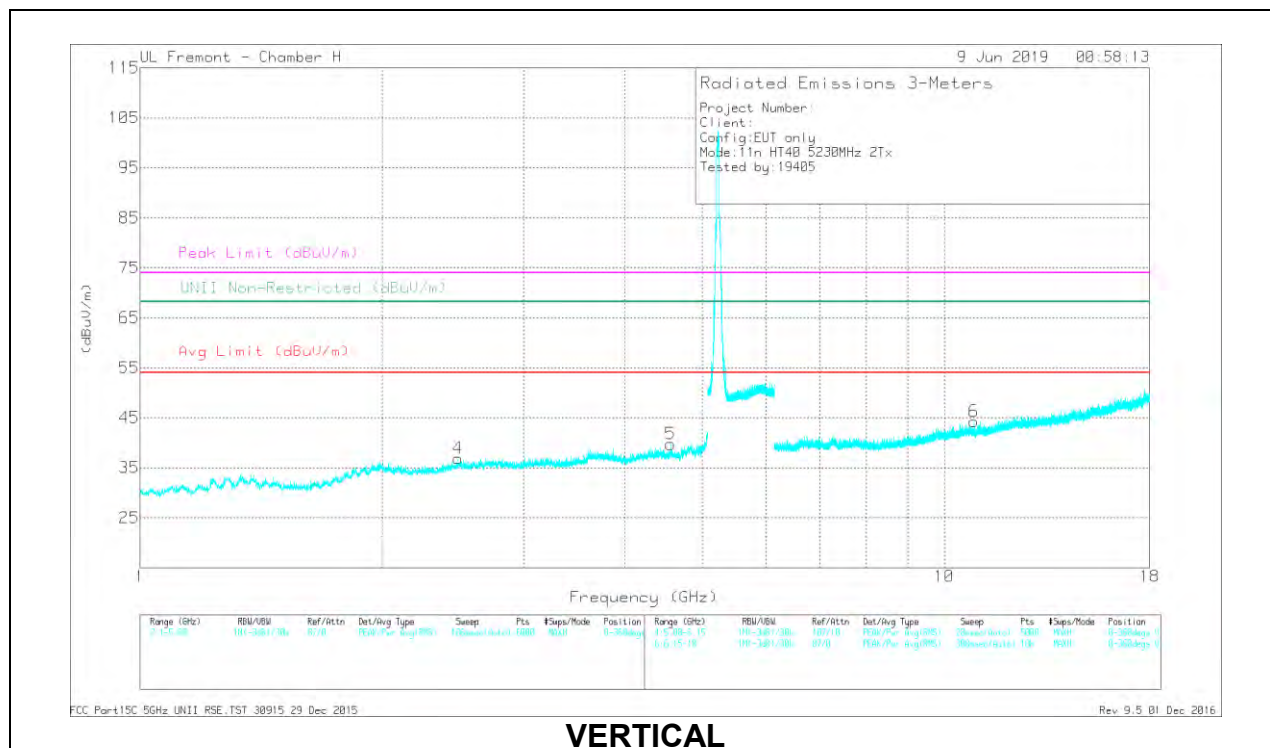
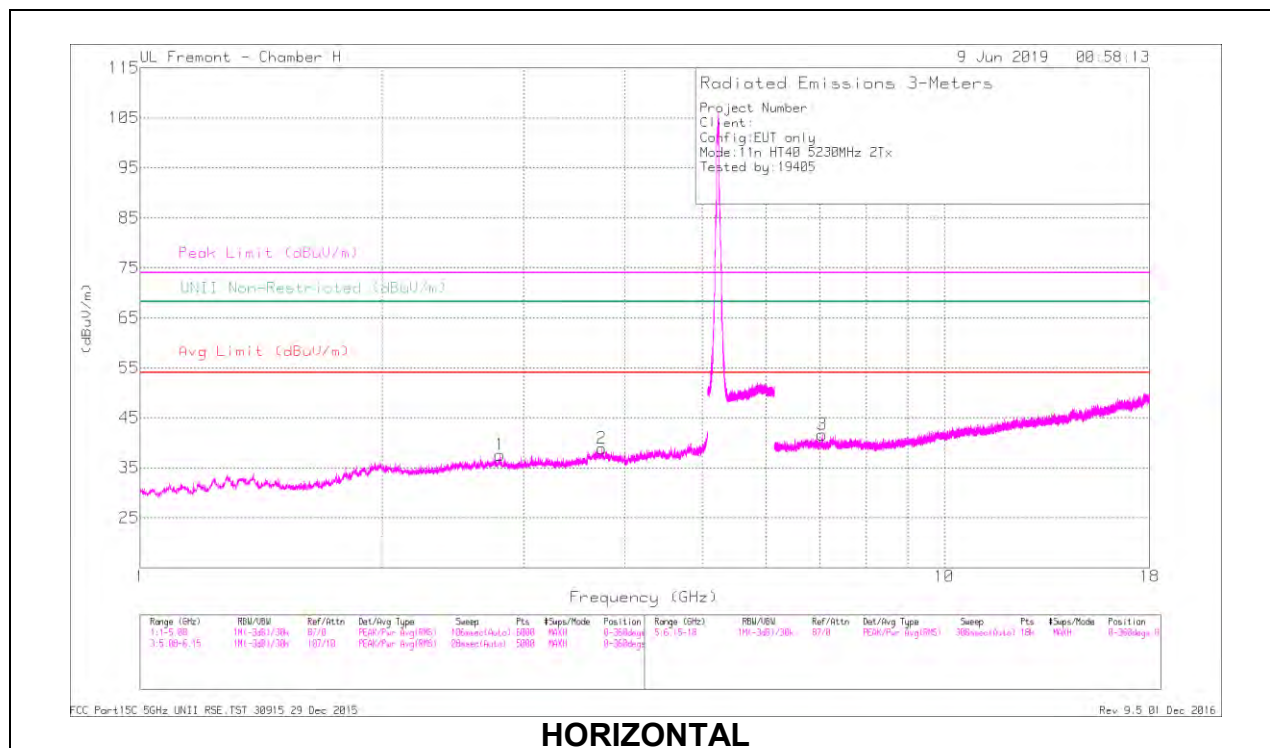
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.268	43.18	PK-U	31.3	-31.9	0	42.58	-	-	74	-31.42	-	-	0	100	V
	* 2.267	31.6	ADR	31.3	-31.9	0.09	31.09	54	-22.91	-	-	-	-	0	100	V
2	* 8.285	37.57	PK-U	35.8	-26.5	0	46.87	-	-	74	-27.13	-	-	0	100	H
	* 8.285	26.61	ADR	35.8	-26.5	0.09	36.00	54	-18.00	-	-	-	-	0	100	H
6	* 9.059	37.55	PK-U	36.3	-24.8	0	49.05	-	-	74	-24.95	-	-	0	100	V
	* 9.057	25.5	ADR	36.3	-24.7	0.09	37.19	54	-16.81	-	-	-	-	0	100	V
1	2.06	44.06	PK-U	31.5	-32.2	0	43.36	-	-	-	-	68.2	-24.84	0	100	H
	2.06	31.68	ADR	31.5	-32.2	0.09	31.07	-	-	-	-	-	-	0	100	H
5	6.52	40.24	PK-U	36.1	-28.8	0	47.54	-	-	-	-	68.2	-20.66	0	100	V
	6.521	28.92	ADR	36.1	-28.8	0.09	36.31	-	-	-	-	-	-	0	100	V
3	12.932	34.95	PK-U	39.3	-23.1	0	51.15	-	-	-	-	68.2	-17.05	0	100	H
	12.933	24.3	ADR	39.3	-23.1	0.09	40.59	-	-	-	-	-	-	0	100	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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	* 2.8	43.91	PK-U	32.5	-31.8	0	44.61	-	-	74	-29.39	-	-	0	100	H
	* 2.8	31.74	ADR	32.5	-31.8	0.09	32.53	54	-21.47	-	-	-	-	0	100	H
2	* 3.752	41.72	PK-U	33.3	-30.9	0	44.12	-	-	74	-29.88	-	-	0	100	H
	* 3.753	30.69	ADR	33.3	-30.9	0.09	33.18	54	-20.82	-	-	-	-	0	100	H
4	* 2.495	43.26	PK-U	32.3	-31.7	0	43.86	-	-	74	-30.14	-	-	0	100	V
	* 2.496	31.42	ADR	32.3	-31.7	0.09	32.11	54	-21.89	-	-	-	-	0	100	V
5	* 4.567	41.17	PK-U	34.1	-29.6	0	45.67	-	-	74	-28.33	-	-	0	100	V
	* 4.568	29.95	ADR	34.1	-29.6	0.09	34.54	54	-19.46	-	-	-	-	0	100	V
6	* 10.886	36.34	PK-U	37.8	-23.6	0	50.54	-	-	74	-23.46	-	-	0	100	V
	* 10.884	24.43	ADR	37.8	-23.6	0.09	38.72	54	-15.28	-	-	-	-	0	100	V
3	7.05	27.45	ADR	36.3	-27.5	0.09	36.34	-	-	-	-	-	-	0	100	H
	7.051	38.84	PK-U	36.3	-27.5	0	47.64	-	-	-	-	68.2	-20.56	0	100	H

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

PK-U - U-NII: Maximum Peak

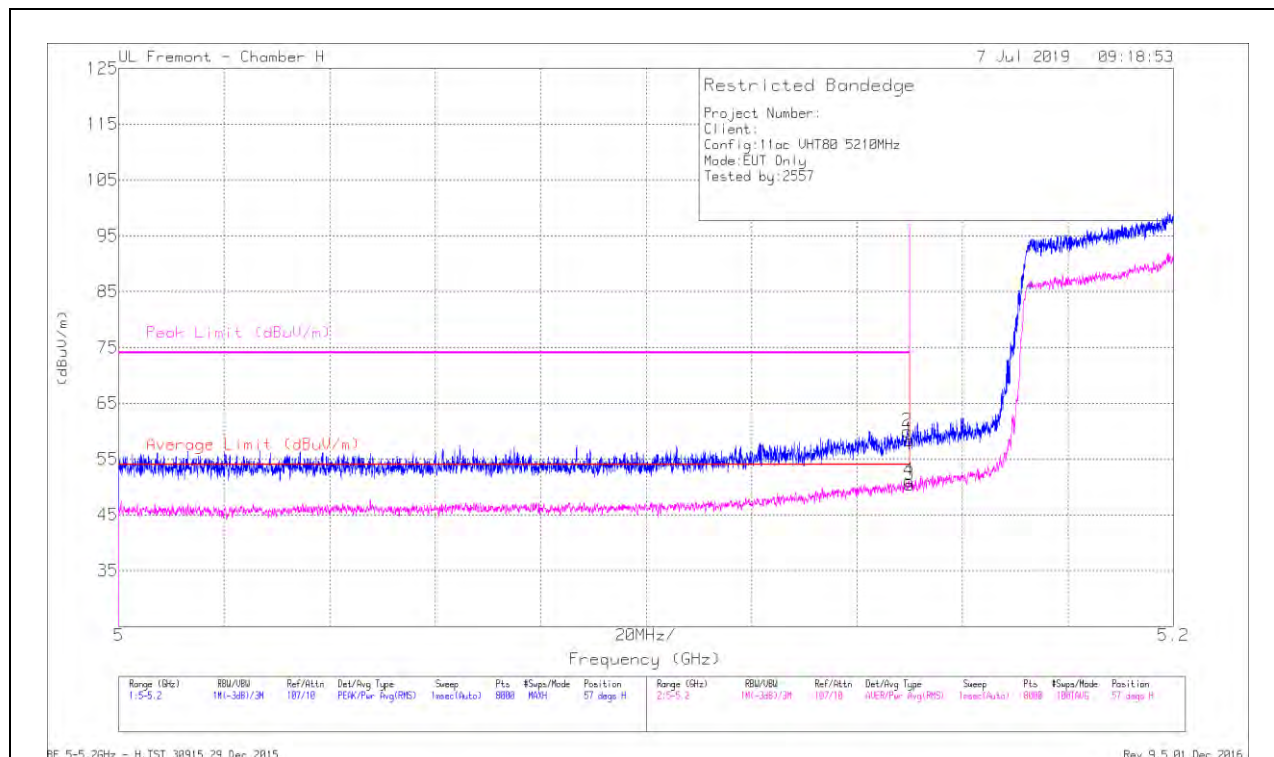
ADR - U-NII AD primary method, RMS average

1.1.3. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



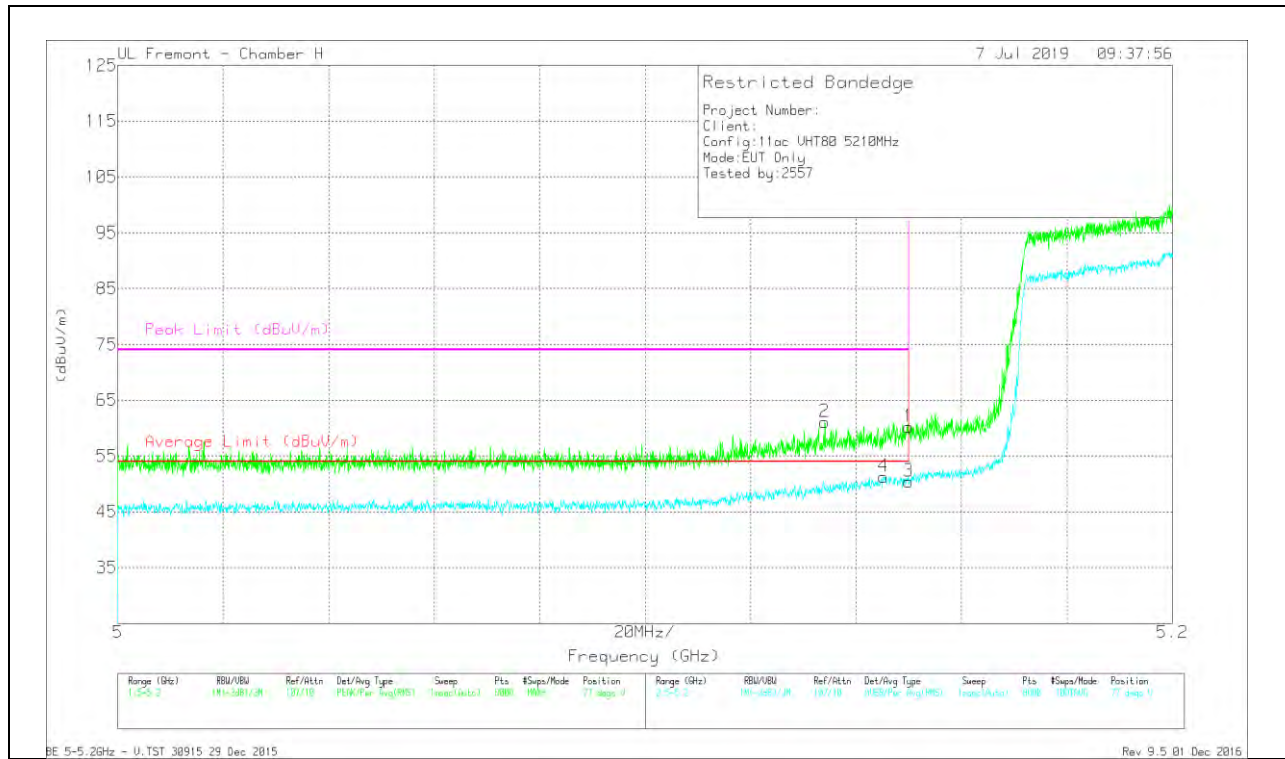
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.82	Pk	34.4	-20.9	0	58.32	-	-	74	-15.68	57	114	H
2	* 5.149	46.59	Pk	34.4	-21	0	59.99	-	-	74	-14.01	57	114	H
3	* 5.15	36.97	RMS	34.4	-20.9	0.19	50.66	54	-3.36	-	-	57	114	H
4	* 5.15	37.53	RMS	34.4	-20.9	0.19	51.22	54	-2.88	-	-	57	114	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	46.73	Pk	34.4	-20.9	0	60.23	-	-	74	-13.77	77	108	V
2	* 5.134	47.64	Pk	34.4	-20.9	0	61.14	-	-	74	-12.86	77	108	V
3	* 5.15	36.97	RMS	34.4	-20.9	0.19	50.66	54	-3.34	-	-	77	108	V
4	* 5.145	38.01	RMS	34.3	-21	0.19	51.50	54	-2.50	-	-	77	108	V

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

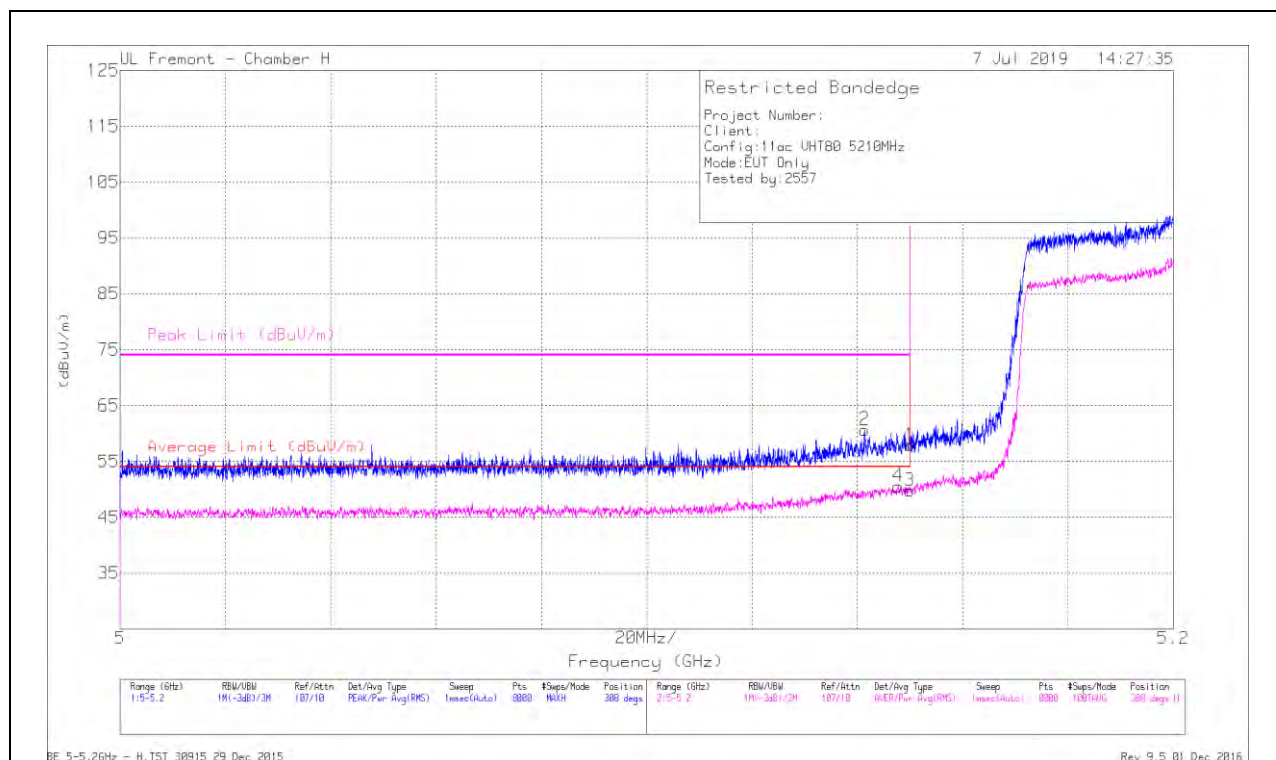
Pk - Peak detector

RMS - RMS detection

1TX Antenna 5 MODE

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



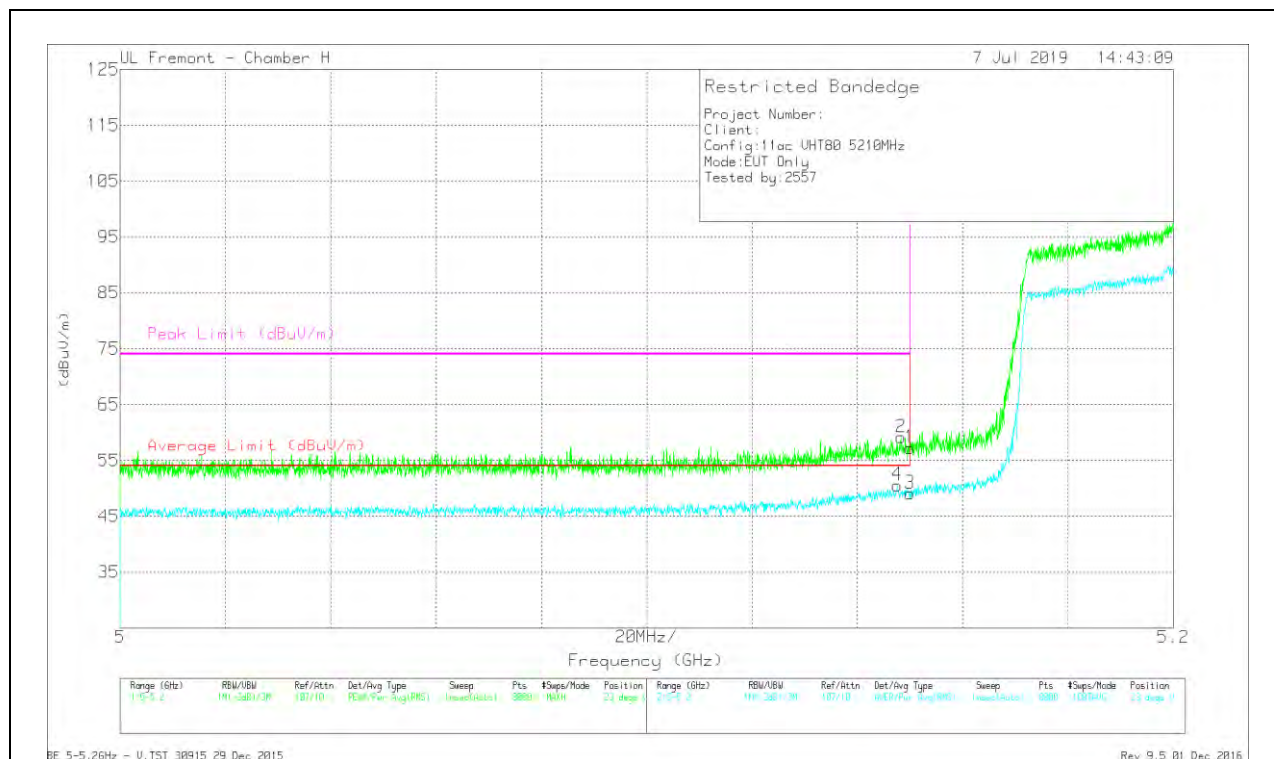
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.43	Pk	34.4	-20.9	0	57.93	-	-	74	-16.07	308	260	H
2	* 5.141	47.12	Pk	34.4	-20.9	0	60.62	-	-	74	-13.38	308	260	H
3	* 5.15	36.26	RMS	34.4	-20.9	0.19	49.95	54	-4.05	-	-	308	260	H
4	* 5.148	37.23	RMS	34.3	-21	0.19	50.72	54	-3.28	-	-	308	260	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	43.73	Pk	34.4	-20.9	0	57.23	-	-	74	-16.77	23	195	V
2	* 5.148	45.83	Pk	34.3	-21	0	59.13	-	-	74	-14.87	23	195	V
3	* 5.15	35.57	RMS	34.4	-20.9	0.19	49.26	54	-4.74	-	-	23	195	V
4	* 5.148	37.26	RMS	34.3	-21	0.19	50.75	54	-3.25	-	-	23	195	V

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

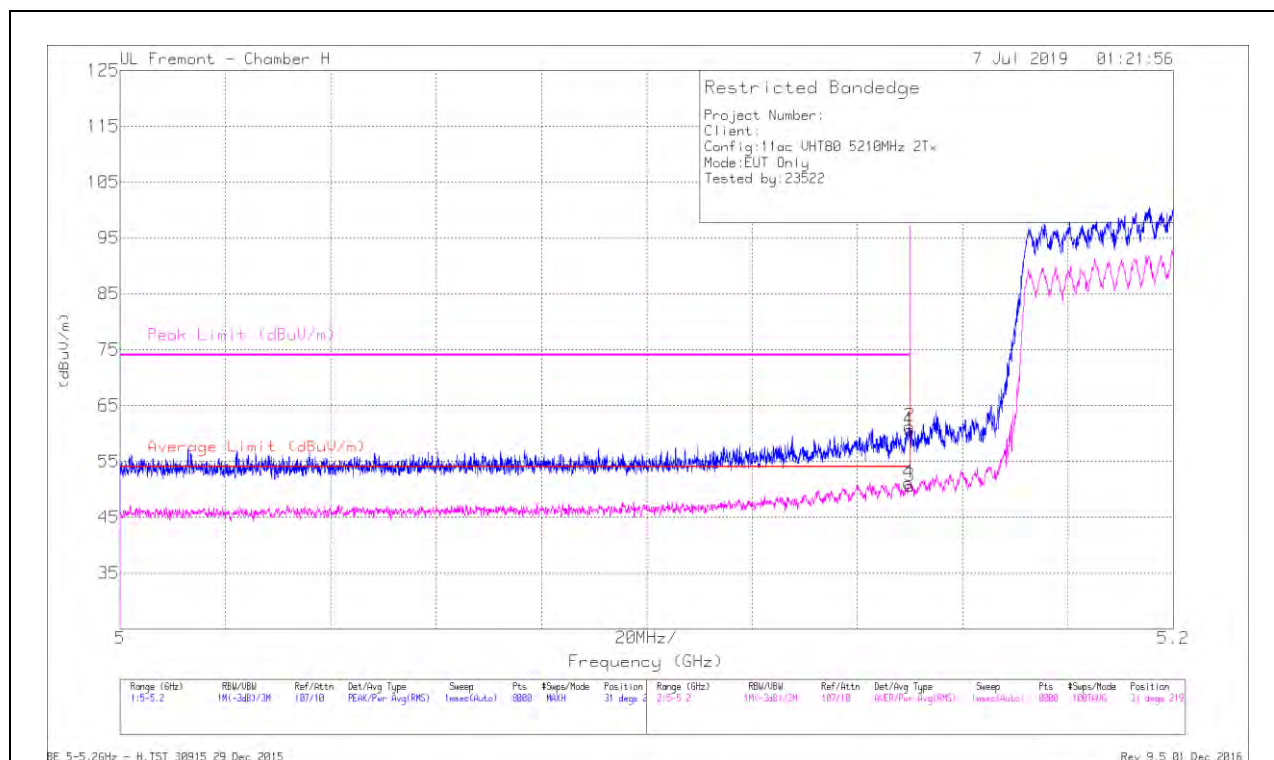
Pk - Peak detector

RMS - RMS detection

2TX Antenna 6 + Antenna 5 CDD MODE

BANEDGE (MID CHANNEL)

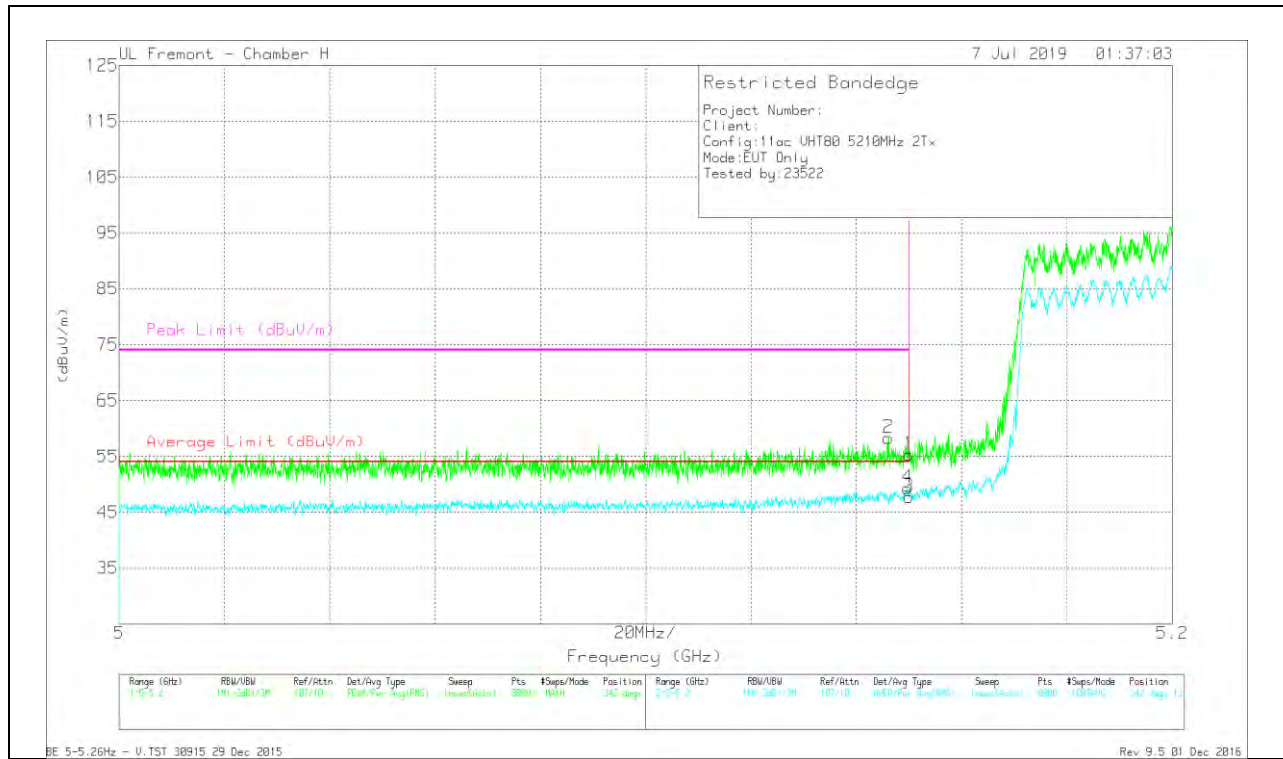
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	47.13	Pk	34.4	-20.9	0	60.63	-	-	74	-13.37	31	219	H
2	* 5.15	47.78	Pk	34.4	-20.9	0	61.28	-	-	74	-12.72	31	219	H
3	* 5.15	37.11	RMS	34.4	-20.9	0.19	50.80	54	-3.20	-	-	31	219	H
4	* 5.15	37.66	RMS	34.4	-20.9	0.19	51.35	54	-2.65	-	-	31	219	H

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	41.82	Pk	34.4	-20.9	0	55.32	-	-	74	-18.68	342	132	V
2	* 5.146	45.05	Pk	34.3	-21	0	58.35	-	-	74	-15.65	342	132	V
3	* 5.15	34.24	RMS	34.4	-20.9	0.19	47.93	54	-6.07	-	-	342	132	V
4	* 5.15	35.85	RMS	34.4	-20.9	0.19	49.54	54	-4.46	-	-	342	132	V

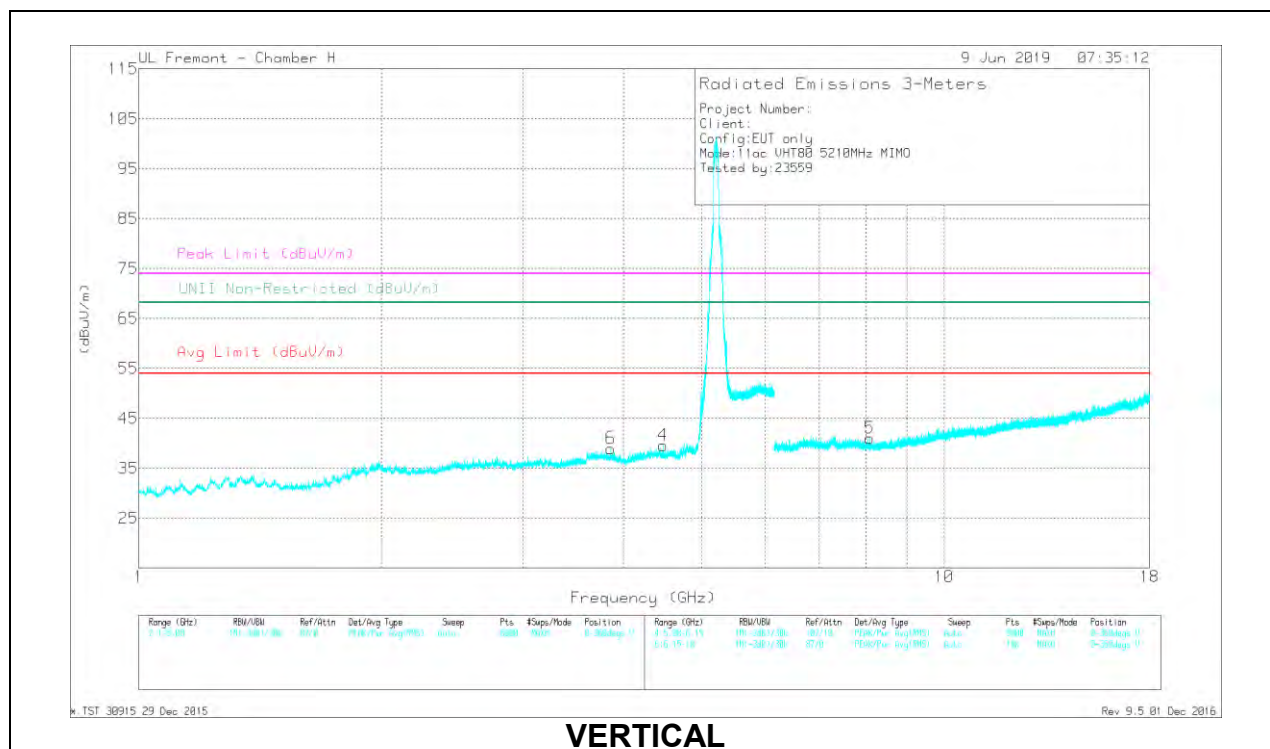
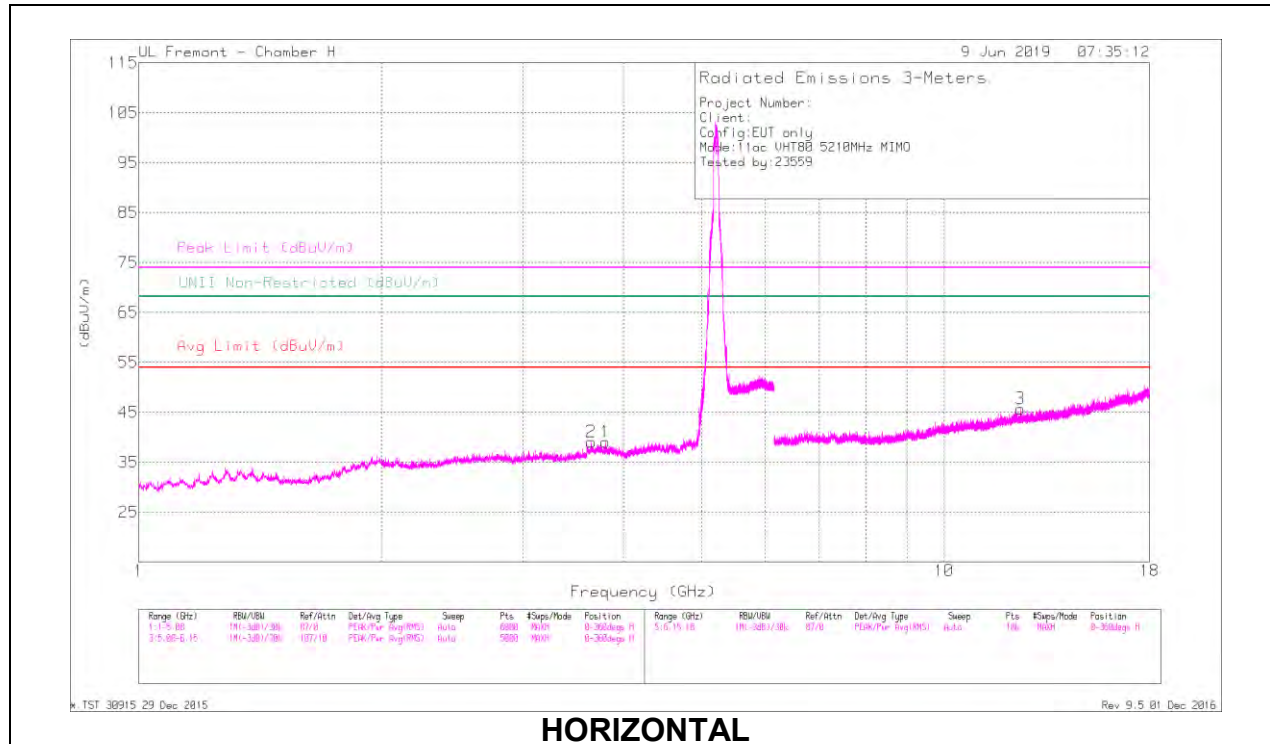
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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	* 3.8	41.86	PK-U	33.5	-30.9	0	44.46	-	-	74	-29.54	-	-	129	181	H
	* 3.799	30.75	ADR	33.5	-30.9	0.19	33.54	54	-20.46	-	-	-	-	129	181	H
2	* 3.647	41.99	PK-U	33.2	-30.9	0	44.29	-	-	74	-29.71	-	-	158	193	H
	* 3.649	30.59	ADR	33.2	-30.9	0.19	33.08	54	-20.92	-	-	-	-	158	193	H
6	* 3.856	42.21	PK-U	33.4	-30.5	0	45.11	-	-	74	-28.89	-	-	236	372	V
	* 3.856	30.75	ADR	33.4	-30.5	0.19	33.84	54	-20.16	-	-	-	-	236	372	V
3	* 12.436	36.35	PK-U	39.2	-23.9	0	51.65	-	-	74	-22.35	-	-	169	310	H
	* 12.437	24.98	ADR	39.2	-23.9	0.19	40.47	54	-13.53	-	-	-	-	169	310	H
5	* 8.085	37.2	PK-U	35.9	-26.3	0	46.8	-	-	74	-27.2	-	-	69	249	V
	* 8.083	26.5	ADR	35.9	-26.3	0.19	36.2.9	54	-17.71	-	-	-	-	69	249	V
4	4.482	41.24	PK-U	33.9	-30.2	0	44.94	-	-	-	-	68.2	-23.26	336	298	V

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

PK-U - U-NII: Maximum Peak

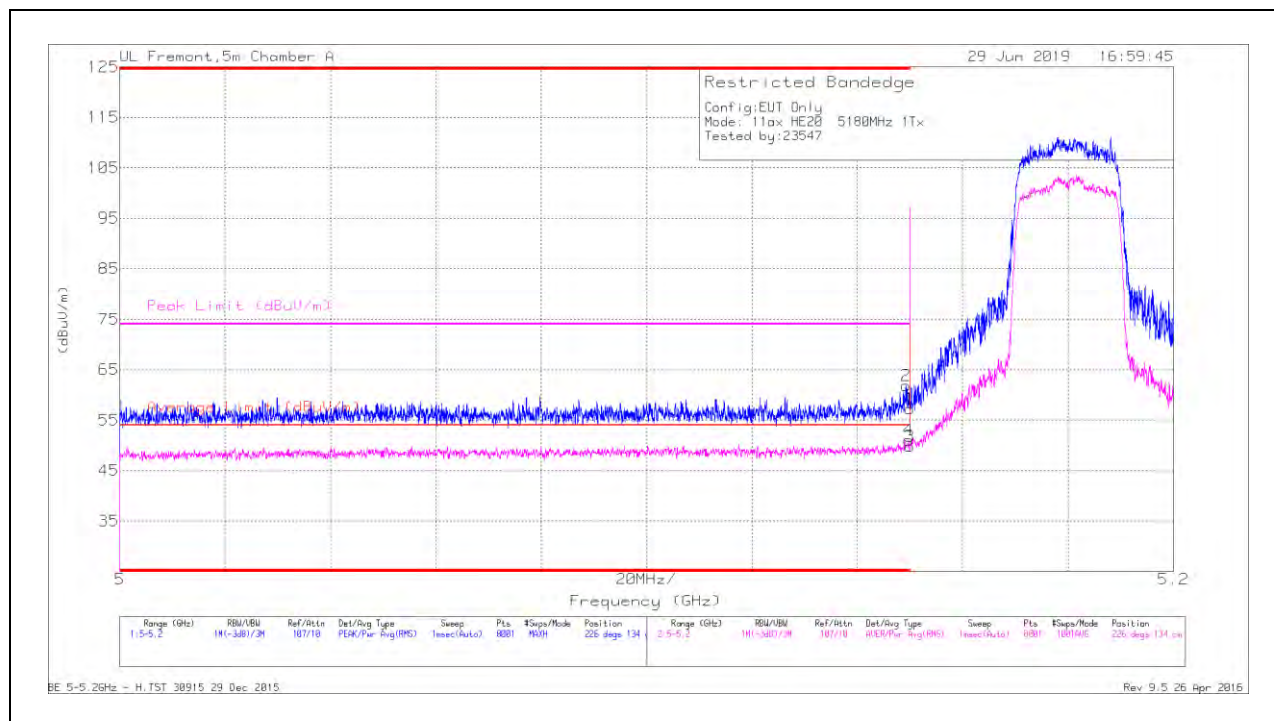
ADR - U-NII AD primary method, RMS average

1.1.4. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE – 242 Tones, RU Index 61

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



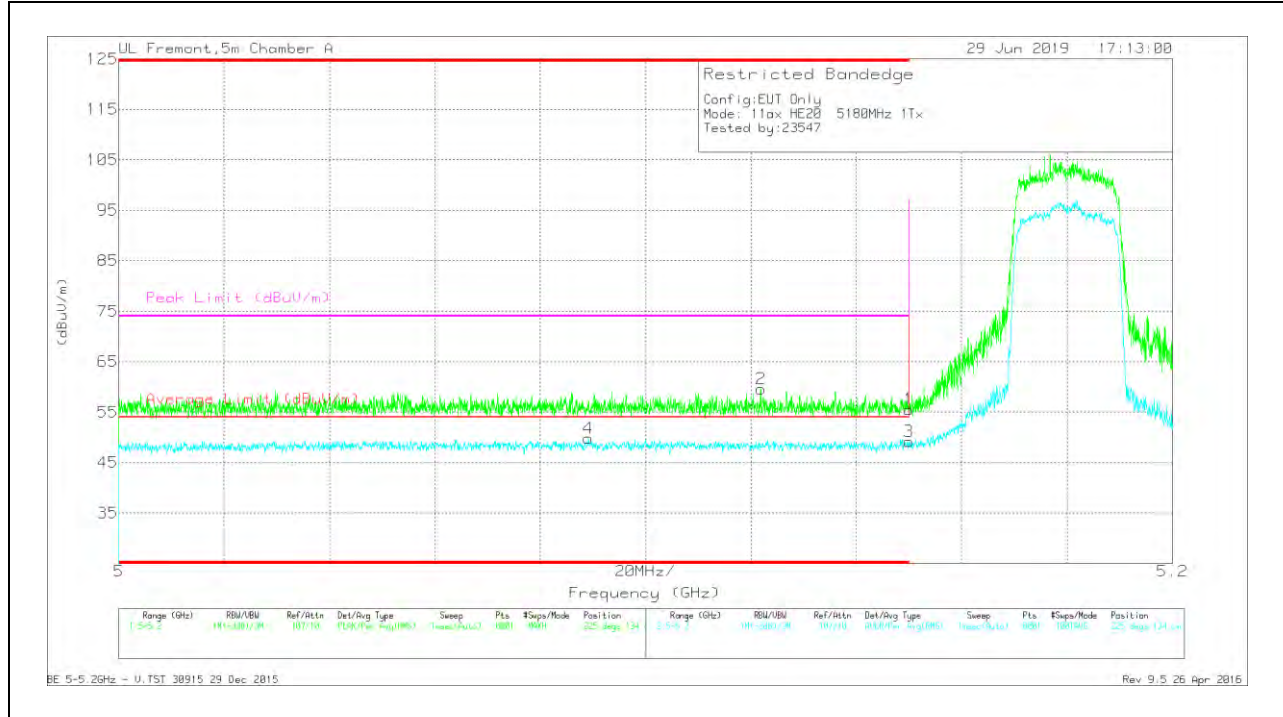
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtri/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	45.32	Pk	34.5	-18	0	61.82	-	-	74	-12.18	226	134	H
4	* 5.15	34.38	RMS	34.6	-18	0	50.98	54	-3.02	-	-	226	134	H
1	5.15	40.62	Pk	34.6	-18	0	57.22	-	-	74	-16.78	226	134	H
3	5.15	33.17	RMS	34.6	-18	0	49.77	54	-4.23	-	-	226	134	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

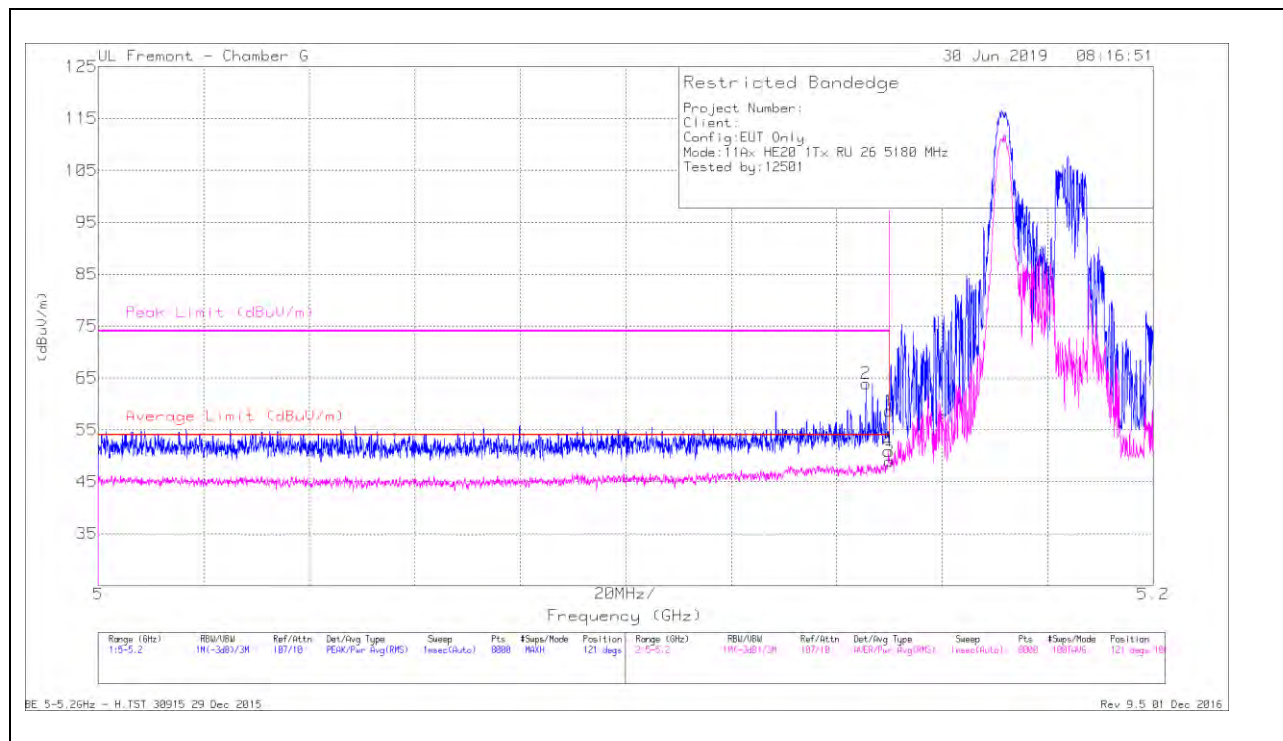


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ctrl/Filt/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.122	42.95	Pk	34.6	-18	0	59.55	-	-	74	-14.45	225	134	V
4	* 5.089	33.46	RMS	34.4	-18.1	0	49.76	54	-4.24	-	-	225	134	V
1	5.15	38.97	Pk	34.6	-18	0	55.57	-	-	74	-18.43	225	134	V
3	5.15	32.56	RMS	34.6	-18	0	49.16	54	-4.84	-	-	225	134	V

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

Pk - Peak detector

RMS - RMS detection

1TX Antenna 6 MODE – 26 Tones, RU Index 0**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	44.42	Pk	34.5	-20.3	0	58.62	-	-	74	-15.38	121	106	H
2	* 5.146	49.75	PK	34.5	-20.3	0	63.95	-	-	74	-10.05	121	106	H
3	* 5.15	34.72	RMS	34.5	-20.3	0	48.92	54	-5.08	-	-	121	106	H
4	* 5.15	36.69	RMS	34.5	-20.3	0	50.89	54	-3.11	-	-	121	106	H

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

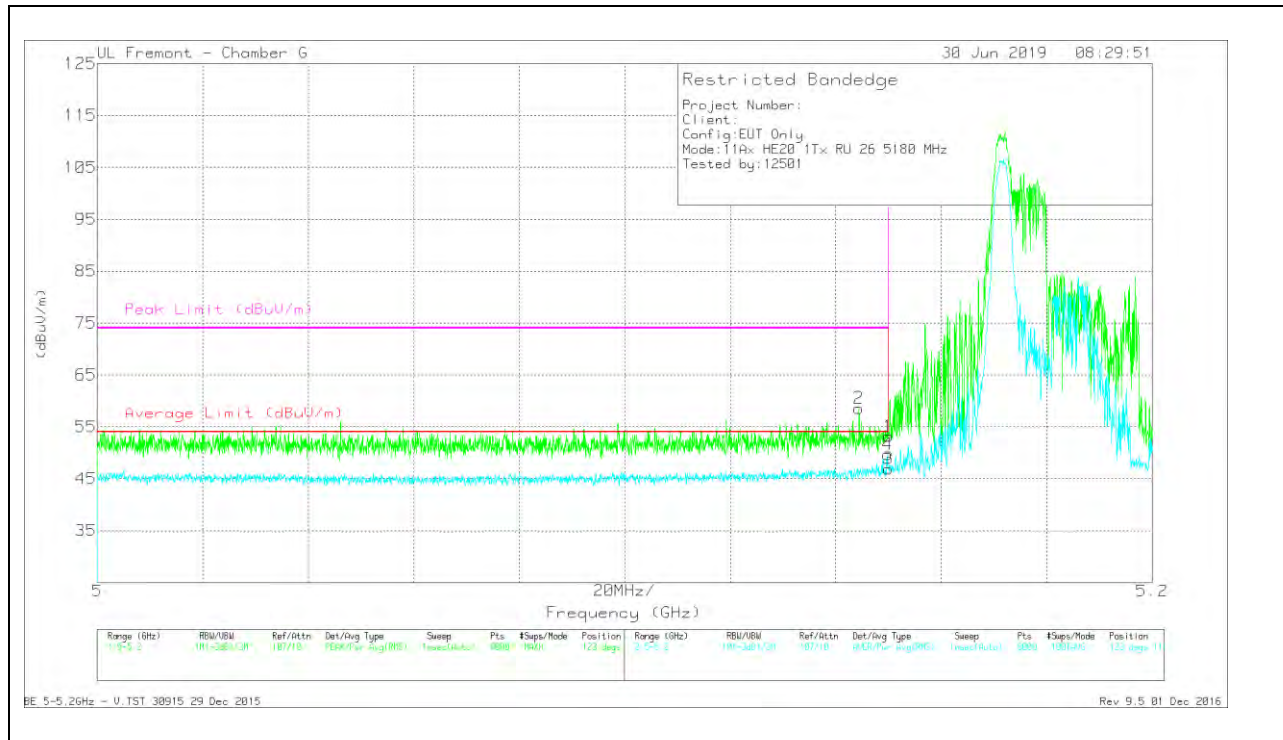
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	38.97	Pk	34.5	-20.3	0	53.17	-	-	74	-20.83	123	118	V
2	* 5.144	44.47	Pk	34.4	-20.3	0	58.57	-	-	74	-15.43	123	118	V
3	* 5.15	32.73	RMS	34.5	-20.3	0	46.93	54	-7.07	-	-	123	118	V
4	* 5.15	35.48	RMS	34.5	-20.3	0	49.68	54	-4.32	-	-	123	118	V

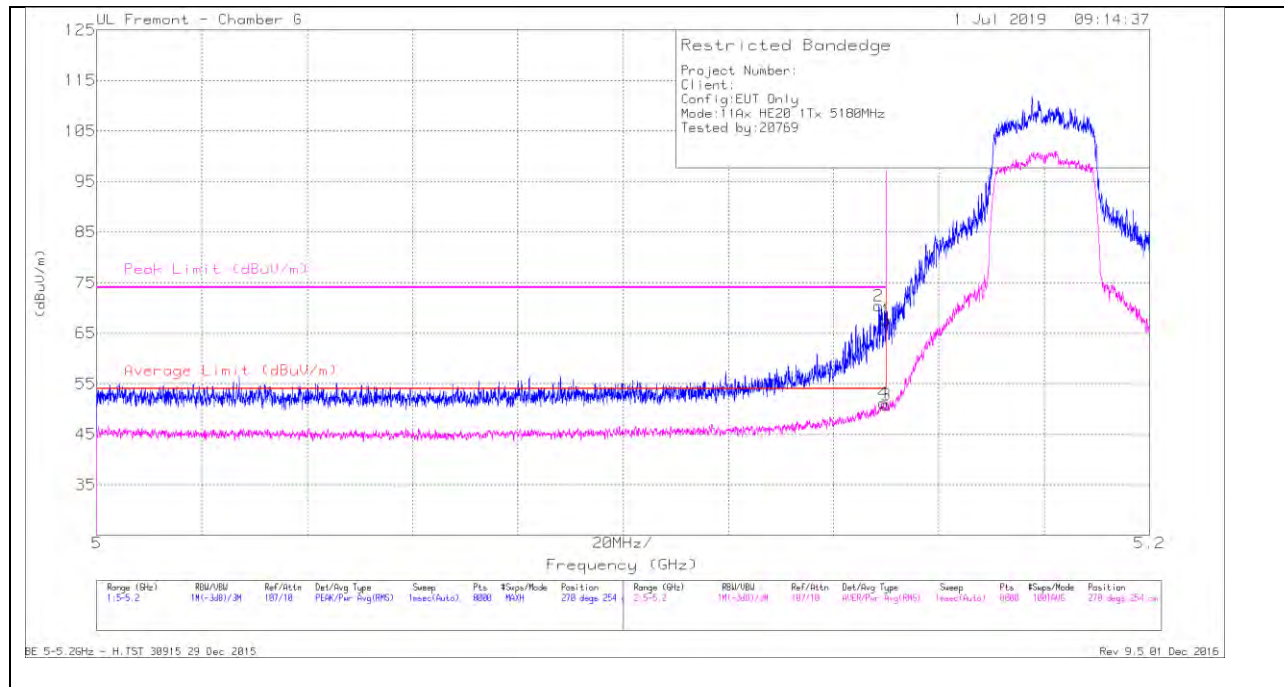
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

1TX Antenna 5 MODE – 242 Tones, RU Index 61**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Ctrl/Filtr/P ad (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	* 5.15	53.33	Pk	34.5	-20.3	0	67.53	-	-	74	-6.47	270	254	H
2	* 5.149	56.16	Pk	34.5	-20.3	0	70.36	-	-	74	-3.64	270	254	H
3	* 5.15	36.59	RMS	34.5	-20.3	0	50.79	54	-3.21	-	-	270	254	H
4	* 5.149	37.01	RMS	34.5	-20.3	0	51.21	54	-2.79	-	-	270	254	H

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

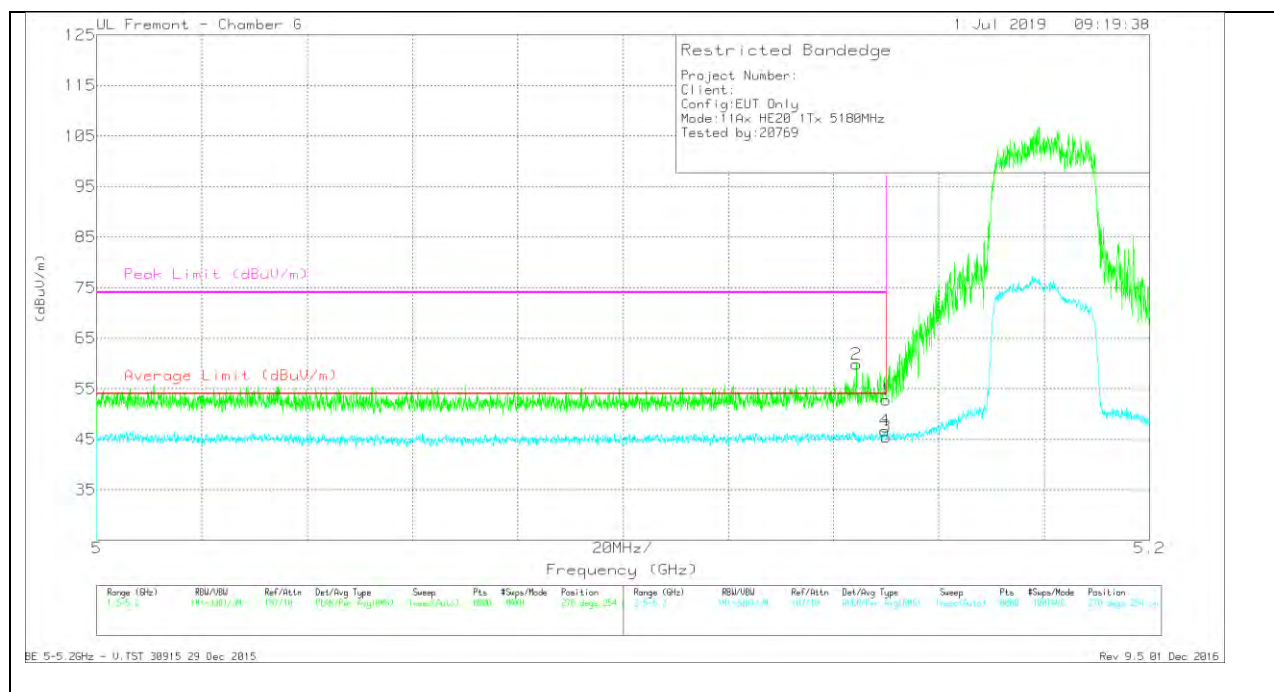
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Filtr/P ad (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	* 5.15	38.54	Pk	34.5	-20.3	0	52.74	-	-	74	-21.26	270	254	V
2	* 5.144	45.8	Pk	34.4	-20.3	0	59.9	-	-	74	-14.1	270	254	V
3	* 5.15	31.31	RMS	34.5	-20.3	0	45.51	54	-8.49	-	-	270	254	V
4	* 5.15	32.47	RMS	34.5	-20.3	0	46.67	54	-7.33	-	-	270	254	V

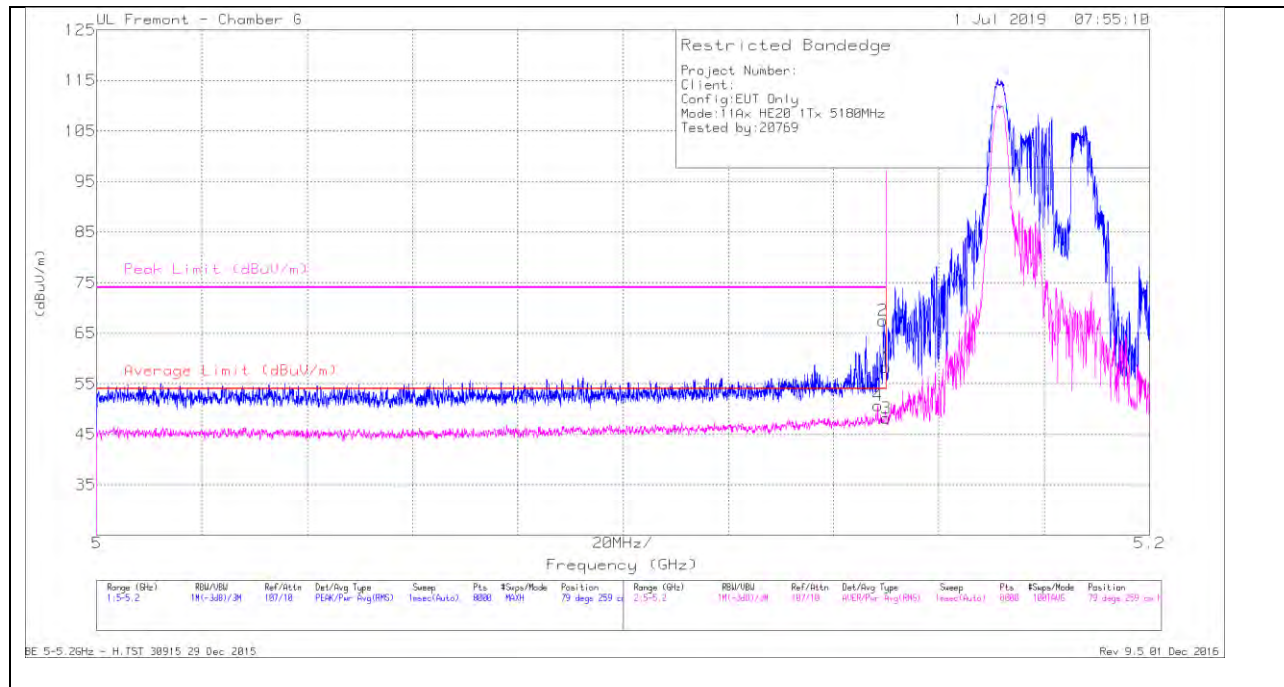
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

1TX Antenna 5 MODE – 26 Tones, RU Index 0**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Ctrl/Filt/P ad (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	* 5.15	43.99	Pk	34.5	-20.3	0	58.19	-	-	74	-15.81	79	259	H
2	* 5.149	53.29	Pk	34.5	-20.3	0	67.49	-	-	74	-6.51	79	259	H
3	* 5.15	33.96	RMS	34.5	-20.3	0	48.16	54	-5.84	-	-	79	259	H
4	* 5.148	36.44	RMS	34.5	-20.3	0	50.64	54	-3.36	-	-	79	259	H

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

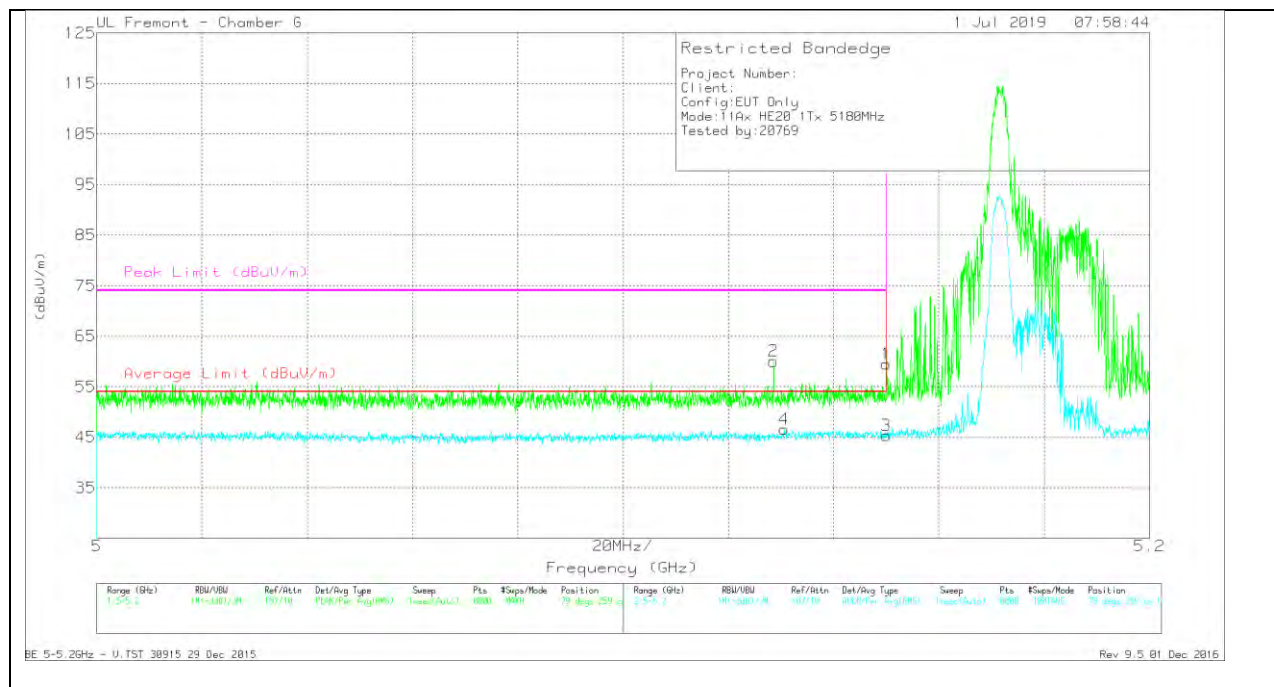
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	45.31	Pk	34.5	-20.3	0	59.51	-	-	74	-14.49	79	259	V
2	* 5.129	45.94	Pk	34.4	-20.3	0	60.04	-	-	74	-13.96	79	259	V
3	* 5.15	31.13	RMS	34.5	-20.3	0	45.33	54	-8.67	-	-	79	259	V
4	* 5.131	32.41	RMS	34.4	-20.3	0	46.51	54	-7.49	-	-	79	259	V

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

Pk - Peak detector

RMS - RMS detection

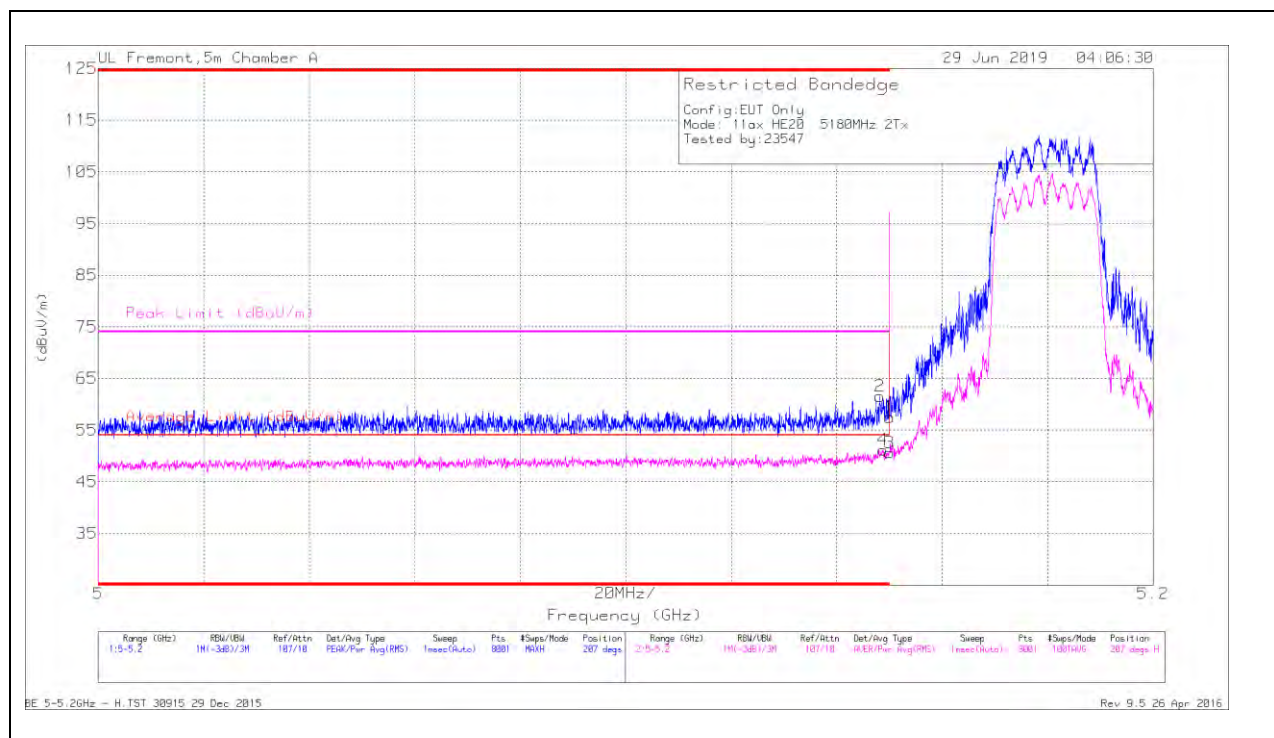
BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

2TX Antenna 6 + Antenna 5 OFDMA MODE – 242 Tones, RU Index 61

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb1/Filt/P ad (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	* 5.148	45.05	Pk	34.5	-18	0	61.55	-	-	74	-12.45	207	115	H
4	* 5.149	34.67	RMS	34.5	-18	0	51.17	54	-2.83	-	-	207	115	H
1	5.15	40.93	Pk	34.6	-18	0	57.53	-	-	74	-16.47	207	115	H
3	5.15	34.02	RMS	34.6	-18	0	50.62	54	-3.38	-	-	207	115	H

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

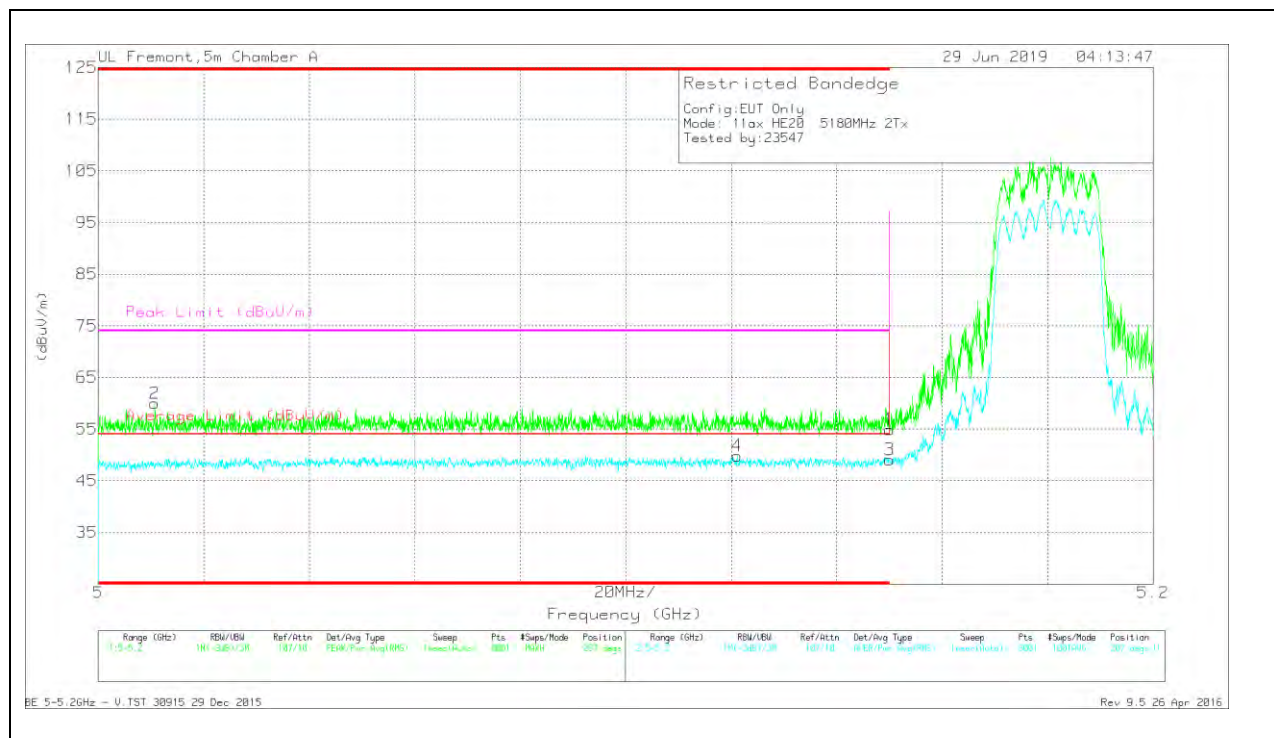
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.011	44.01	Pk	34.3	-18.3	0	60.01	-	-	74	-13.99	207	115	V
4	* 5.121	33.2	RMS	34.6	-18	0	49.8	54	-4.2	-	-	207	115	V
1	5.15	38.34	Pk	34.6	-18	0	54.94	-	-	74	-19.06	207	115	V
3	5.15	32.5	RMS	34.6	-18	0	49.1	54	-4.9	-	-	207	115	V

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

Pk - Peak detector

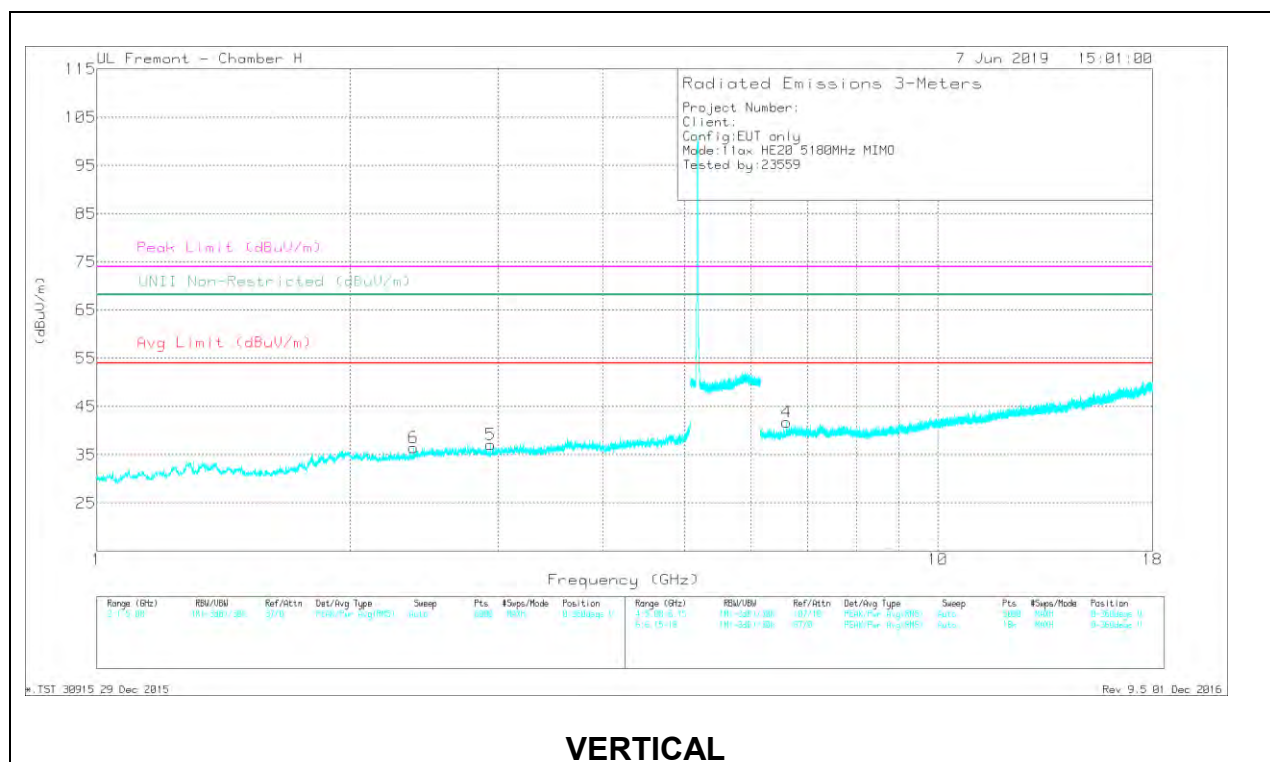
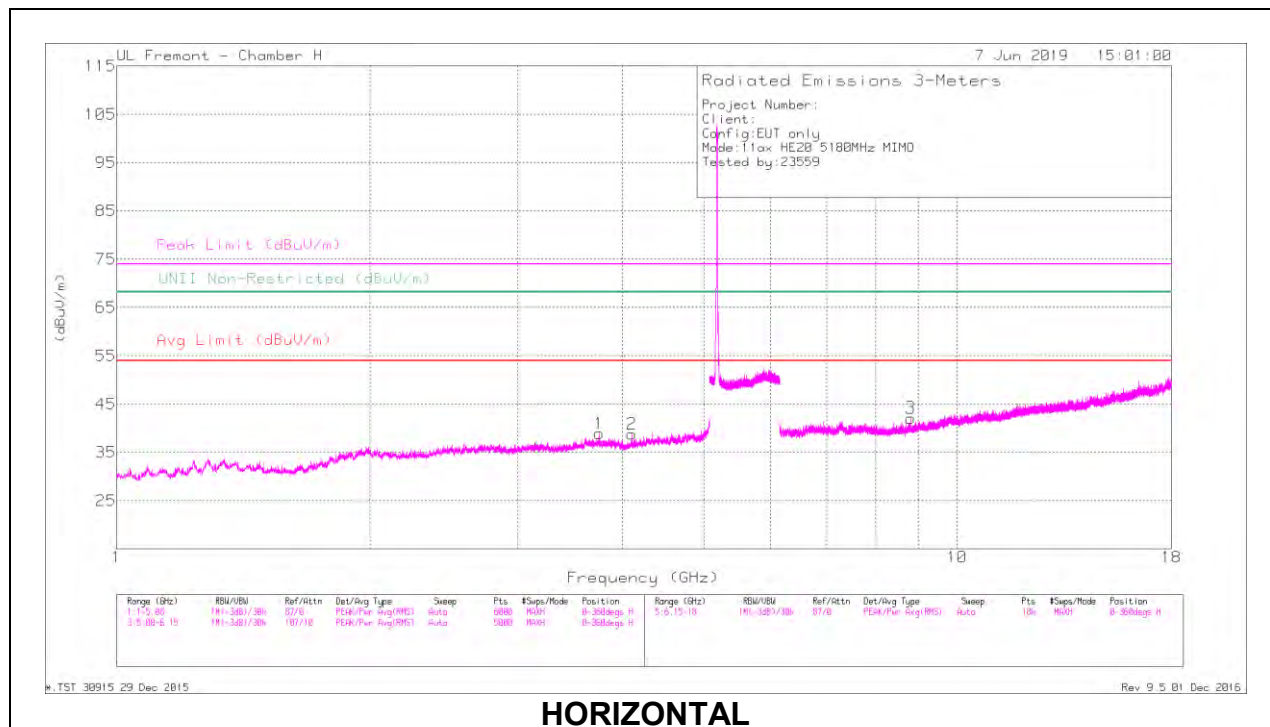
RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



Radiated Emissions

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Correcte d 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	* 3.749	42.32	PK-U	33.3	-30.9	0	44.72	-	-	74	-29.28	-	-	141	224	H
	* 3.757	30.79	ADR	33.2	-30.8	0	33.19	54	-20.81	-	-	-	-	141	224	H
2	* 4.097	41.44	PK-U	33.3	-30.8	0	43.94	-	-	74	-30.06	-	-	217	289	H
	* 4.098	30.49	ADR	33.3	-30.8	0	32.99	54	-21.01	-	-	-	-	217	289	H
6	* 2.377	43.67	PK-U	31.6	-31.9	0	43.37	-	-	74	-30.63	-	-	226	276	V
	* 2.38	31.51	ADR	31.6	-31.9	0	31.21	54	-22.79	-	-	-	-	226	276	V
5	2.939	42.3	PK-U	32.3	-30.8	0	43.8	-	-	-	-	68.2	-24.4	360	359	V
4	6.612	40	PK-U	36.4	-28.9	0	47.5	-	-	-	-	68.2	-20.7	102	129	V
3	8.799	36.67	PK-U	36.1	-25.4	0	47.37	-	-	-	-	68.2	-20.83	65	204	H

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

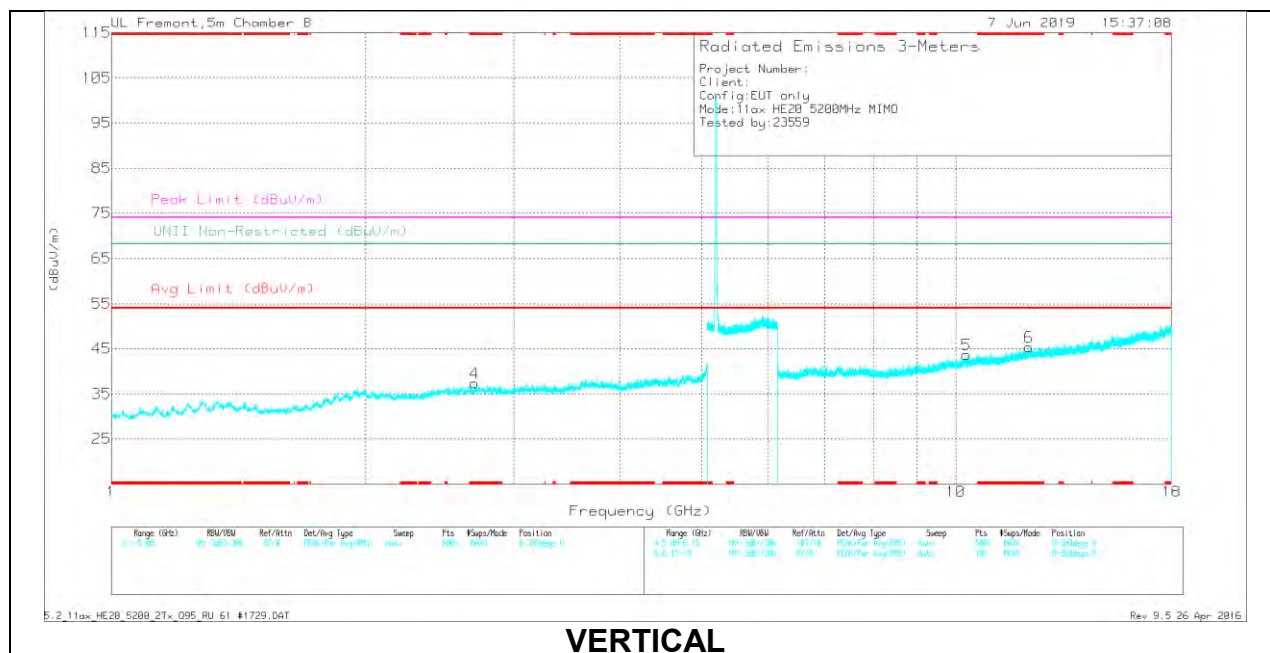
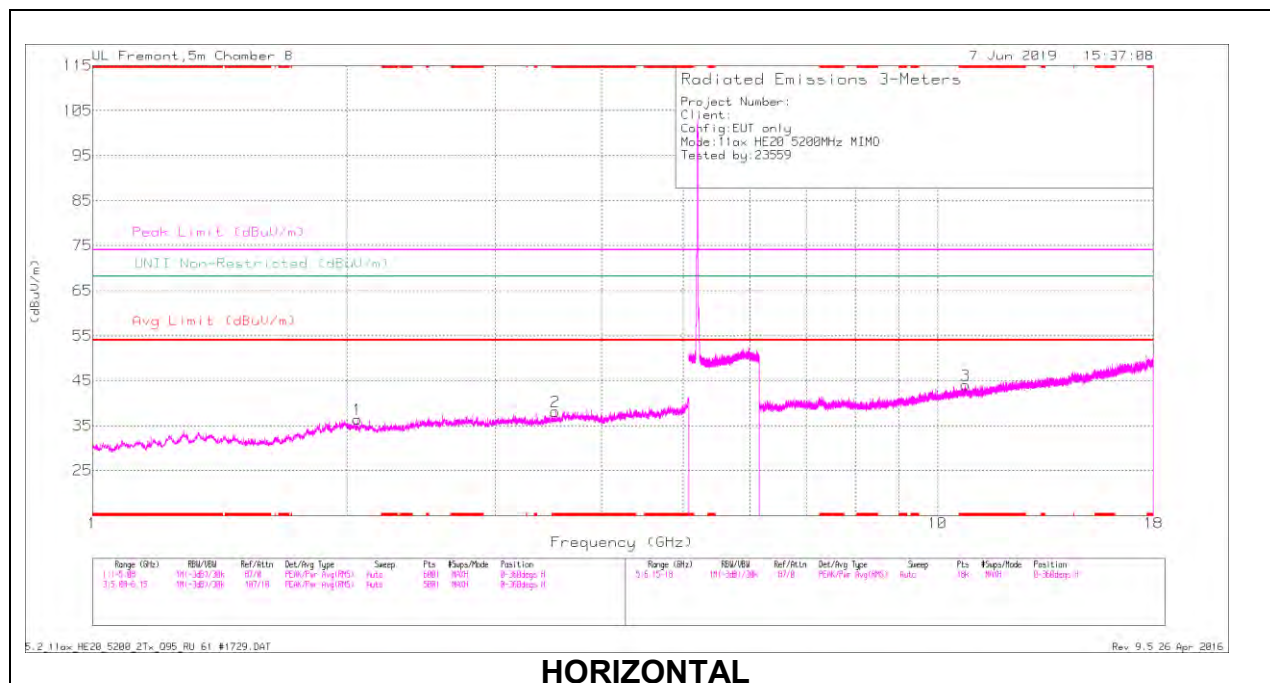
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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MID CHANNEL RESULTS



Radiated Emissions

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt/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
* 3.528	42.45	PK-U	33.1	-31.1	0	44.45	-	-	74	-29.55	-	-	253	256	H
* 3.527	30.62	ADR	33.1	-31.1	0	32.62	54	-21.38	-	-	-	-	253	256	H
* 2.692	42.63	PK-U	32.6	-31.5	0	43.73	-	-	74	-30.27	-	-	301	326	V
* 2.695	31.32	ADR	32.6	-31.5	0	32.42	54	-21.58	-	-	-	-	301	326	V
* 10.793	36.07	PK-U	37.8	-22.9	0	50.97	-	-	74	-23.03	-	-	360	265	H
* 10.793	24.29	ADR	37.8	-22.9	0	39.19	54	-14.81	-	-	-	-	360	265	H
* 12.203	35.37	PK-U	39.1	-23.3	0	51.17	-	-	74	-22.83	-	-	360	262	V
* 12.204	24.43	ADR	39.1	-23.3	0	40.23	54	-13.77	-	-	-	-	360	262	V
2.056	43.43	PK-U	31.5	-32.3	0	42.63	-	-	-	-	68.2	-25.57	139	179	H
10.293	36.42	PK-U	37.4	-24.4	0	49.42	-	-	-	-	68.2	-18.78	265	333	V

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

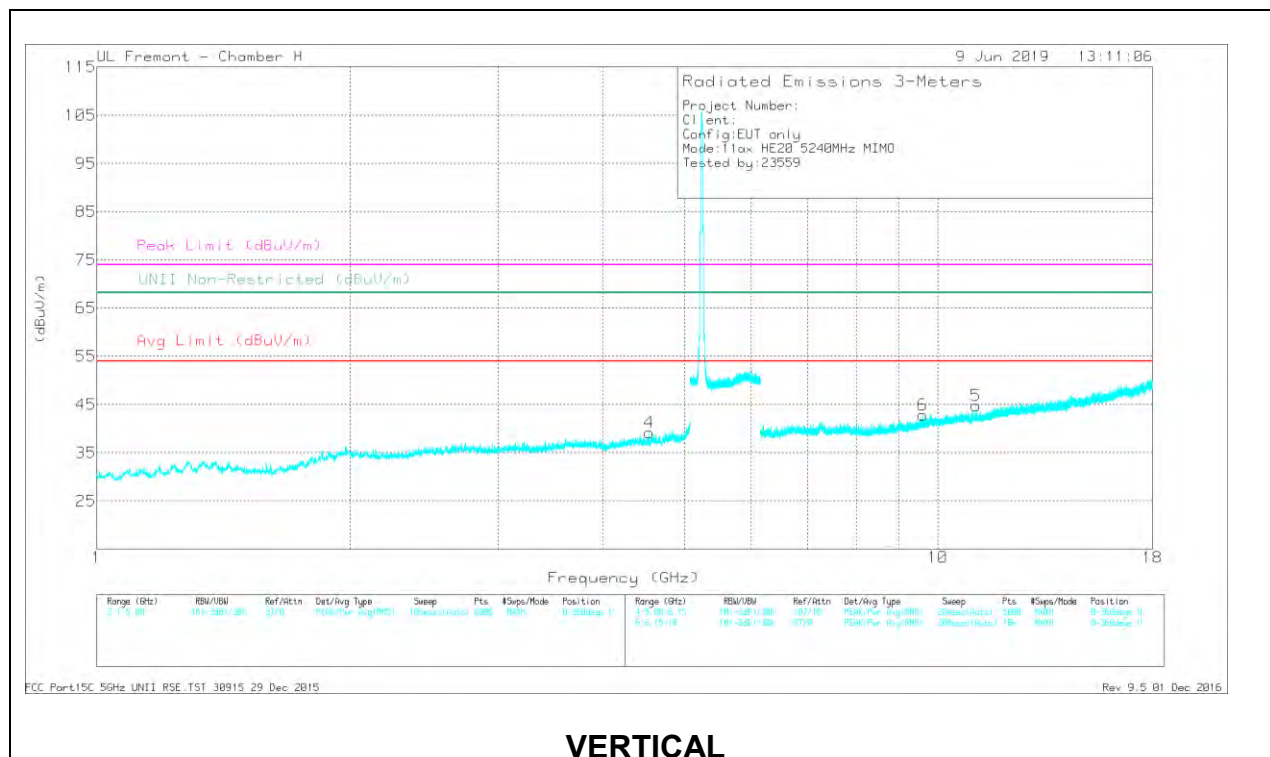
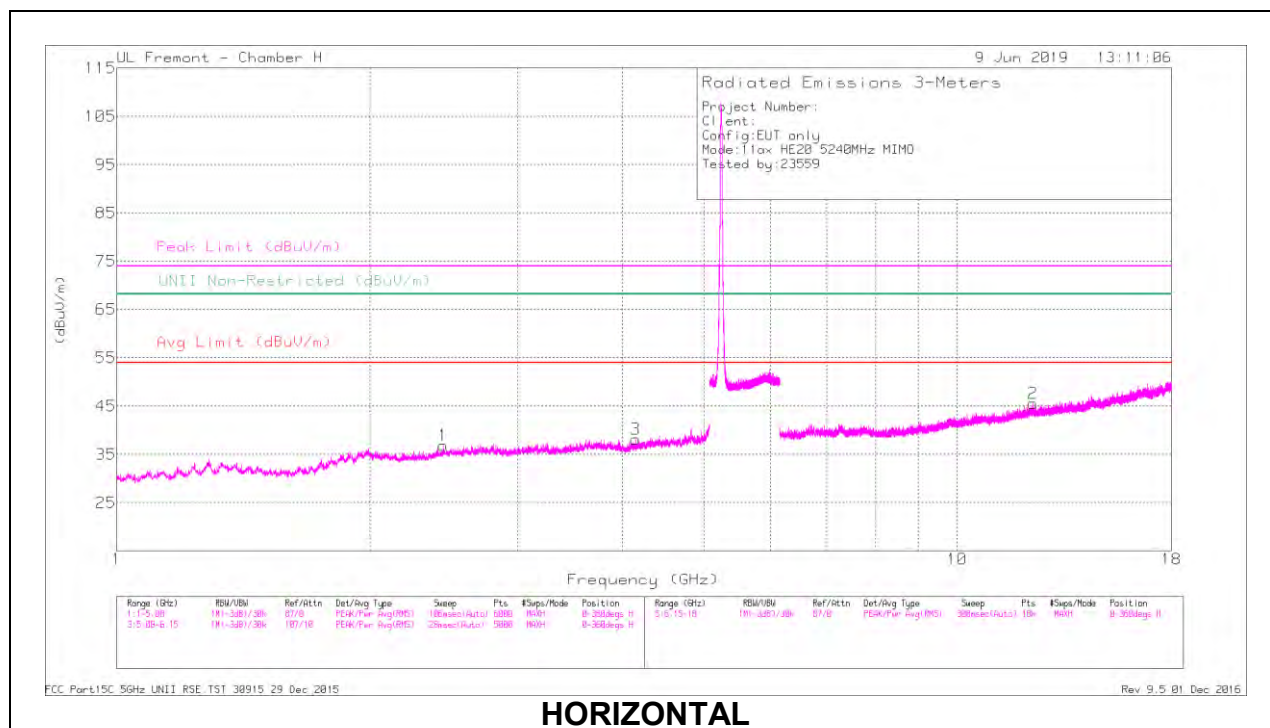
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

5.2_11ax_HE20_5200_2Tx_Q95_RU 61 #1729.DAT

Rev 9.5 26 Apr 2016

HIGH CHANNEL RESULTS



Radiated Emissions

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/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
3	* 4.144	41.88	PK-U	33.1	-30.8	0	44.18	-	-	74	-29.82	-	-	157	219	H
	* 4.145	30.6	ADR	33.1	-30.8	0	32.9	54	-21.1	-	-	-	-	157	219	H
4	* 4.535	41.03	PK-U	34	-29.4	0	45.63	-	-	74	-28.37	-	-	76	300	V
	* 4.537	29.34	ADR	34	-29.4	0	33.94	54	-20.06	-	-	-	-	76	300	V
2	* 12.311	35.92	PK-U	39	-23.1	0	51.82	-	-	74	-22.18	-	-	46	375	H
	* 12.31	24.66	ADR	39	-23.1	0	40.56	54	-13.44	-	-	-	-	46	375	H
5	* 11.114	35.22	PK-U	37.8	-23.5	0	49.52	-	-	74	-24.48	-	-	187	310	V
	* 11.113	24.76	ADR	37.8	-23.5	0	39.06	54	-14.94	-	-	-	-	187	310	V
1	2.449	43.17	PK-U	32.1	-31.9	0	43.37	-	-	-	-	68.2	-24.83	263	152	H
6	9.605	36.59	PK-U	36.9	-24.6	0	48.89	-	-	-	-	68.2	-19.31	266	247	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

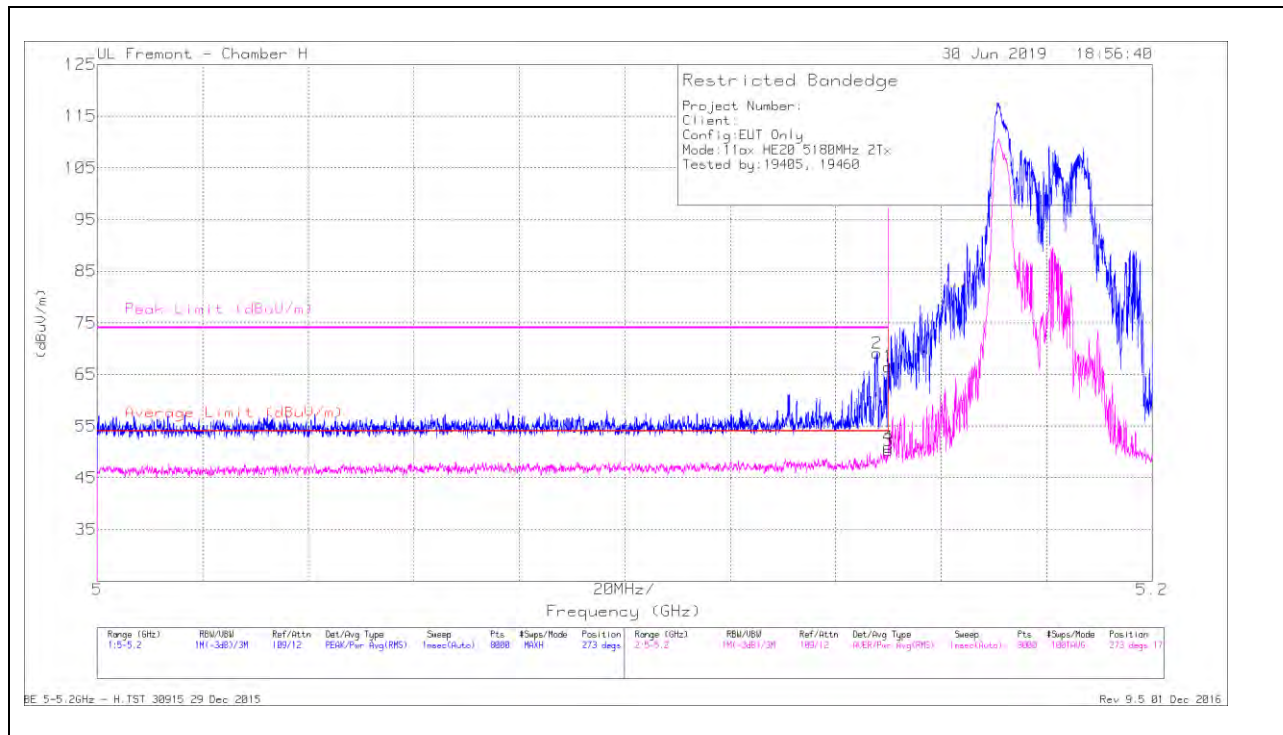
FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	51.8	Pk	34.4	-19.7	0	66.5	-	-	74	-7.5	273	173	H
2	* 5.148	54.52	Pk	34.3	-19.7	0	69.12	-	-	74	-4.88	273	173	H
3	* 5.15	35.59	RMS	34.4	-19.7	0	50.29	54	-3.71	-	-	273	173	H
4	* 5.15	36.26	RMS	34.4	-19.7	0	50.96	54	-3.04	-	-	273	173	H

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

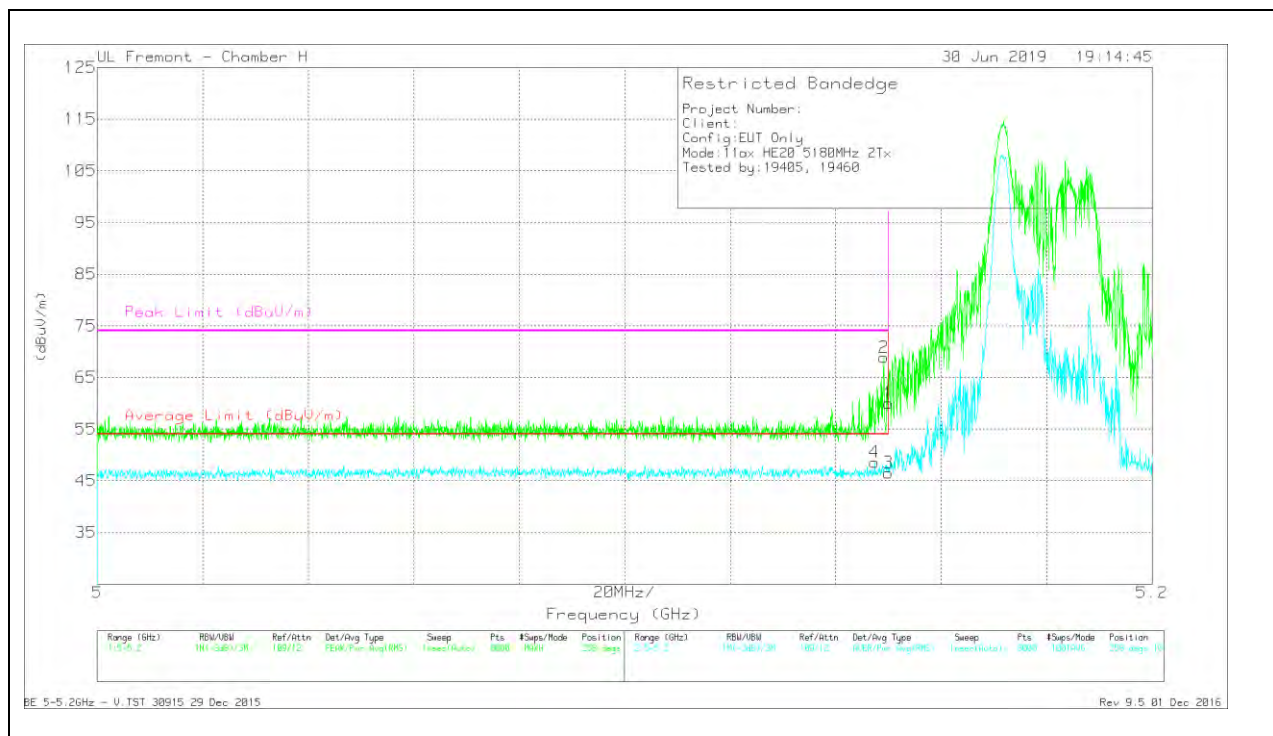
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.147	33.89	RMS	34.3	-19.6	0	48.59	54	-5.41	-	-	258	107	V
2	* 5.149	53.98	Pk	34.4	-19.5	0	68.88	-	-	74	-5.12	258	107	V
1	* 5.15	45.29	Pk	34.4	-19.7	0	59.99	-	-	74	-14.01	258	107	V
3	* 5.15	31.83	RMS	34.4	-19.7	0	46.53	54	-7.47	-	-	258	107	V

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

Pk - Peak detector

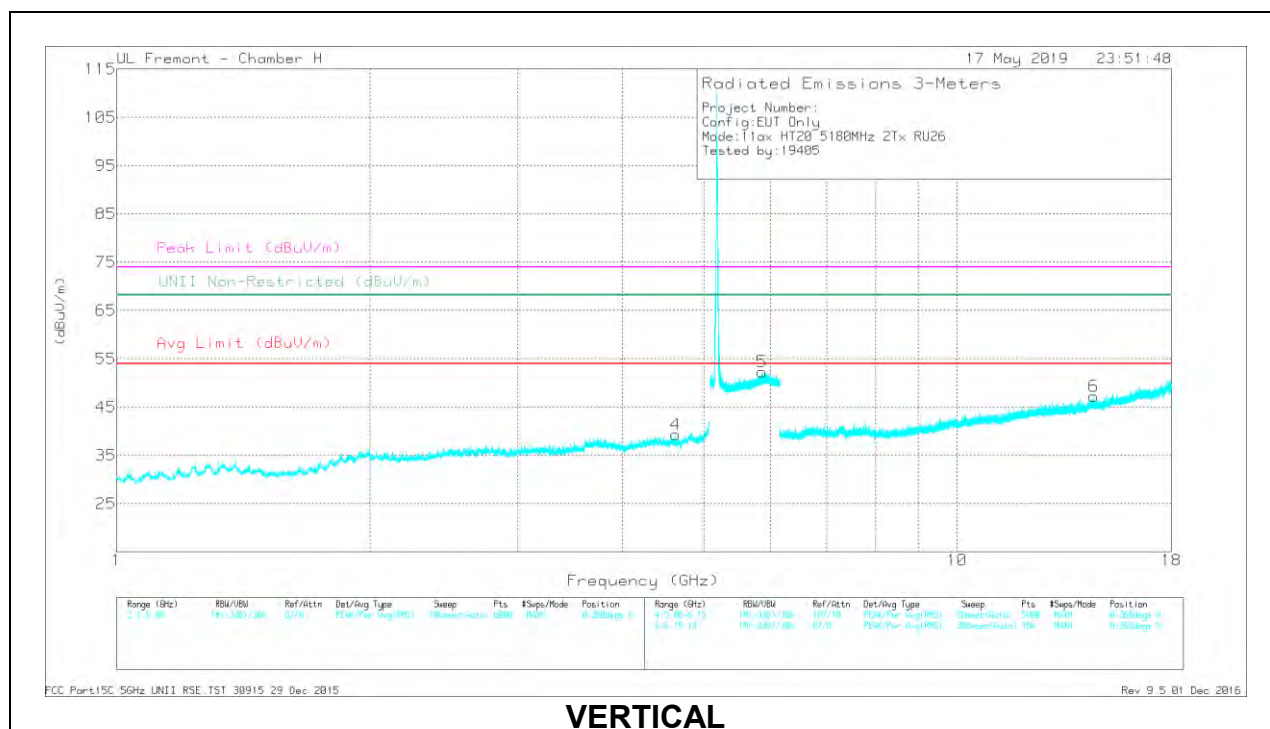
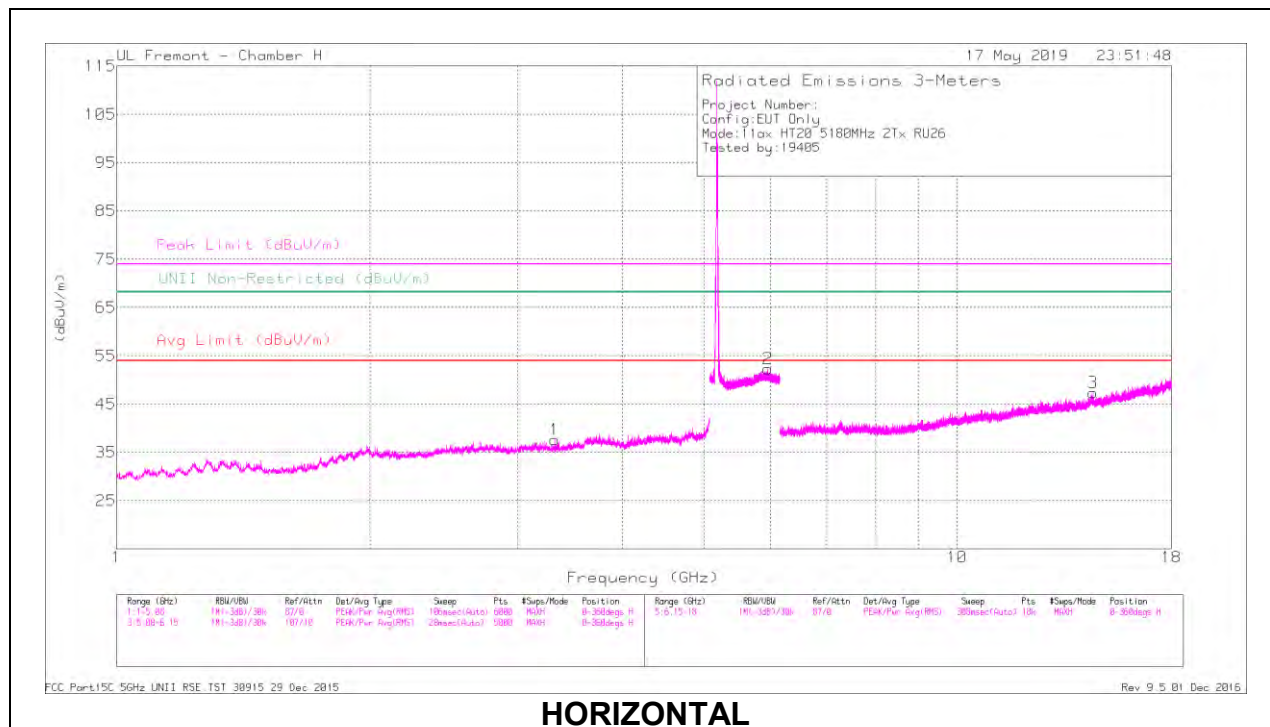
RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.627	41.64	PK-U	34.1	-29.9	0	45.84	-	-	74	-28.16	-	-	82	202	V
	* 4.628	30.11	ADR	34.1	-29.9	0	34.31	54	-19.69	-	-	-	-	82	202	V
1	3.323	30.26	ADR	32.6	-30.6	0	32.26	-	-	-	-	-	-	40	125	H
	3.325	41.96	PK-U	32.6	-30.6	0	43.96	-	-	-	-	68.2	-24.24	40	125	H
5	5.865	43.65	PK-U	35.5	-20.4	0	58.75	-	-	-	-	68.2	-9.45	225	118	V
	5.865	32.08	ADR	35.5	-20.4	0	47.18	-	-	-	-	-	-	225	118	V
2	5.95	43.75	PK-U	35.6	-20.1	0	59.25	-	-	-	-	68.2	-8.95	143	283	H
	5.952	31.74	ADR	35.6	-20.2	0	47.14	-	-	-	-	-	-	143	283	H
3	14.531	35.27	PK-U	40	-22.1	0	53.17	-	-	-	-	68.2	-15.03	171	320	H
	14.531	24.43	ADR	40	-22.1	0	42.33	-	-	-	-	-	-	171	320	H
6	14.535	24.52	ADR	40	-22.2	0	42.32	-	-	-	-	-	-	238	120	V
	14.537	35.87	PK-U	40	-22.2	0	53.67	-	-	-	-	68.2	-14.53	238	120	V

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

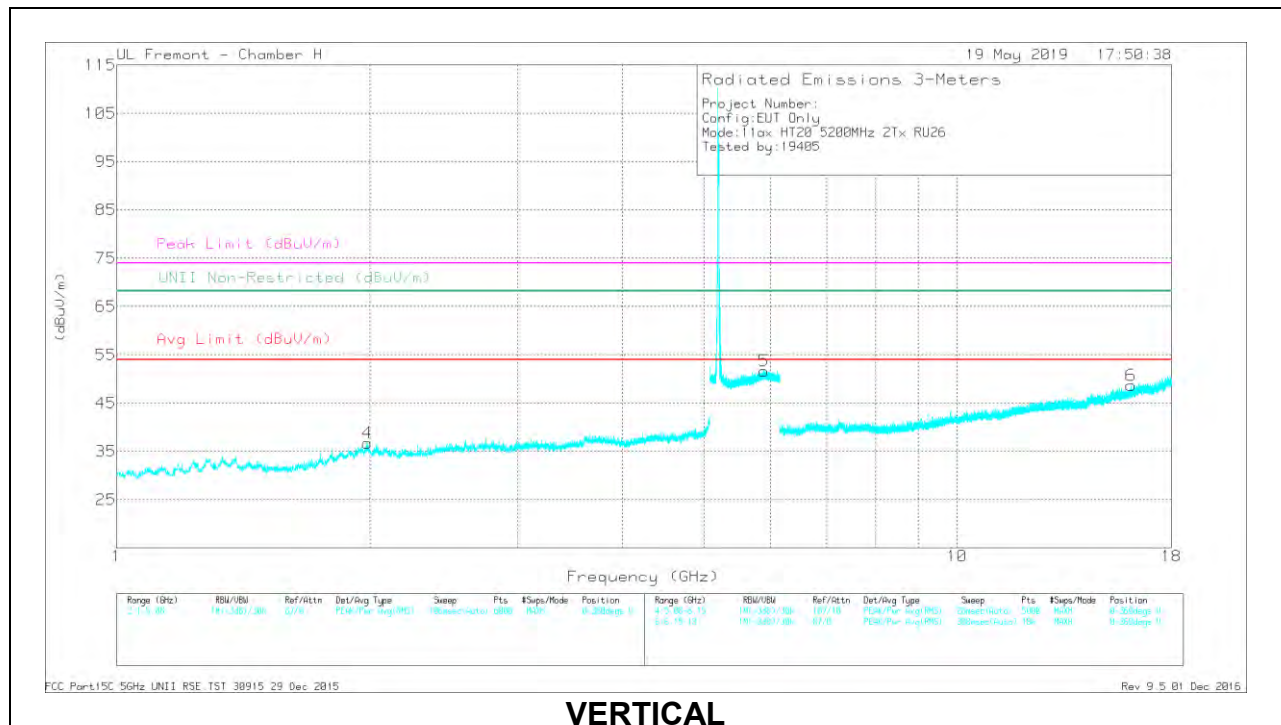
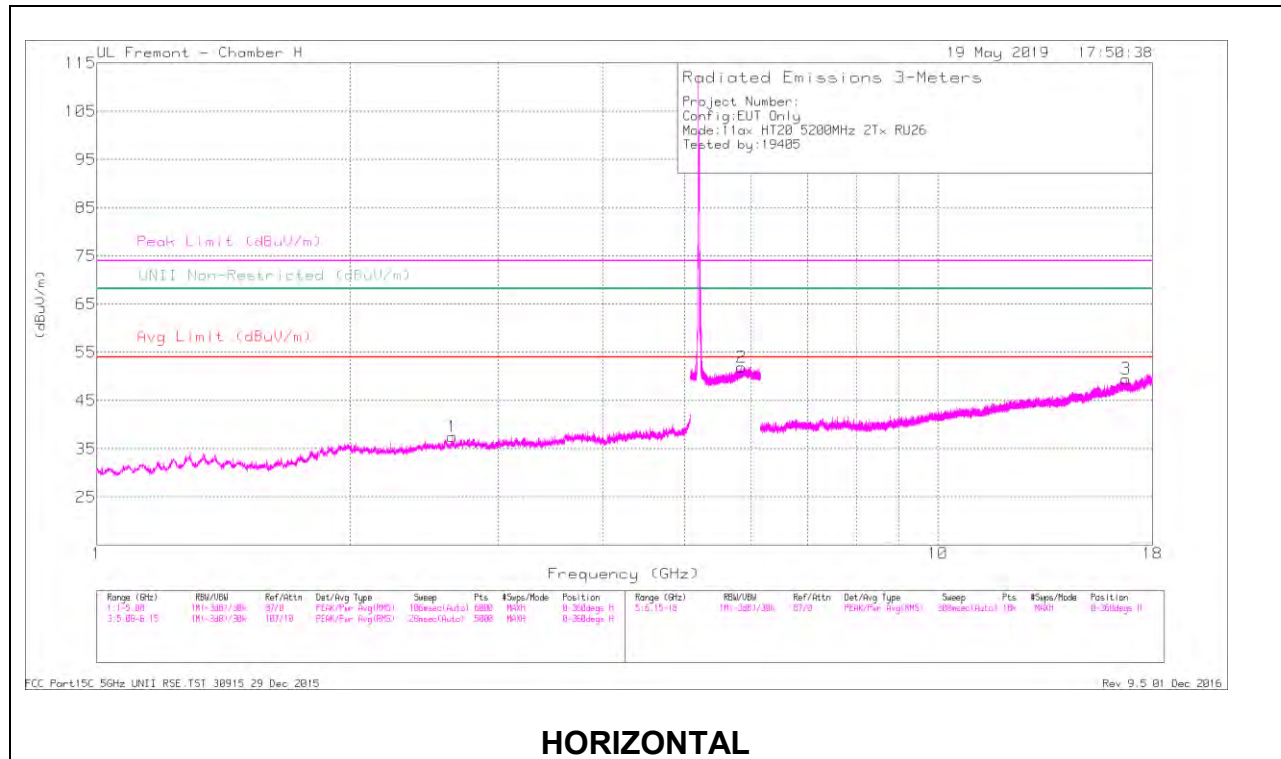
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBim)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 16.114	36.56	PK-U	41.1	-22.1	0	55.56	-	-	74	-18.44	-	-	149	145	V
	* 16.11	24.97	ADR	41.1	-22.1	0	43.97	54	-10.03	-	-	-	-	149	145	V
4	1.987	44.04	PK-U	31.9	-32.3	0	43.64	-	-	-	-	68.2	-24.56	219	142	V
	1.987	32.37	ADR	31.9	-32.3	0	31.97	-	-	-	-	-	-	219	142	V
1	2.646	42.78	PK-U	32.6	-31.3	0	44.08	-	-	-	-	68.2	-24.12	166	215	H
	2.649	30.75	ADR	32.6	-31.3	0	32.05	-	-	-	-	-	-	166	215	H
2	5.84	43.63	PK-U	35.5	-20.3	0	58.83	-	-	-	-	68.2	-9.37	324	178	H
	5.84	31.97	ADR	35.5	-20.3	0	47.17	-	-	-	-	-	-	324	178	H
5	5.889	44.07	PK-U	35.7	-20.3	0	59.47	-	-	-	-	68.2	-8.73	243	198	V
	5.889	32.2	ADR	35.7	-20.3	0	47.6	-	-	-	-	-	-	243	198	V
3	16.738	24.32	ADR	41.7	-21.5	0	44.52	-	-	-	-	-	-	108	240	H
	16.74	35.52	PK-U	41.7	-21.4	0	55.82	-	-	-	-	68.2	-12.38	108	240	H

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

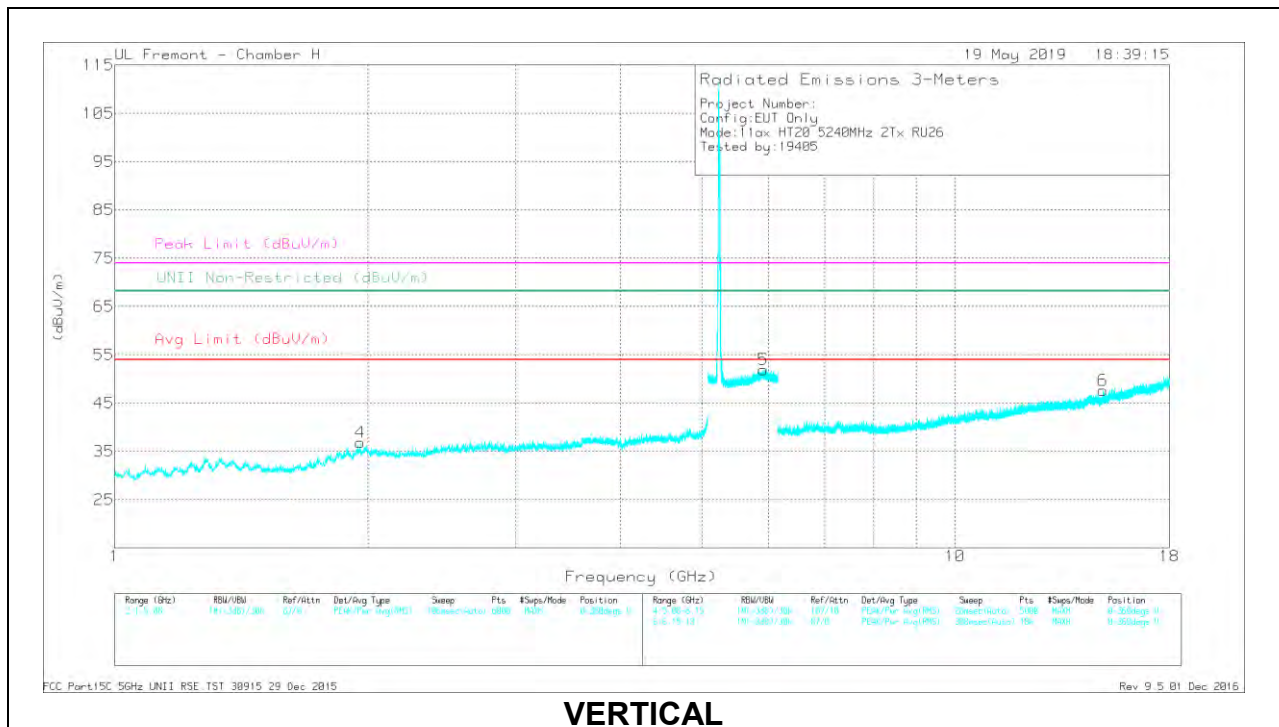
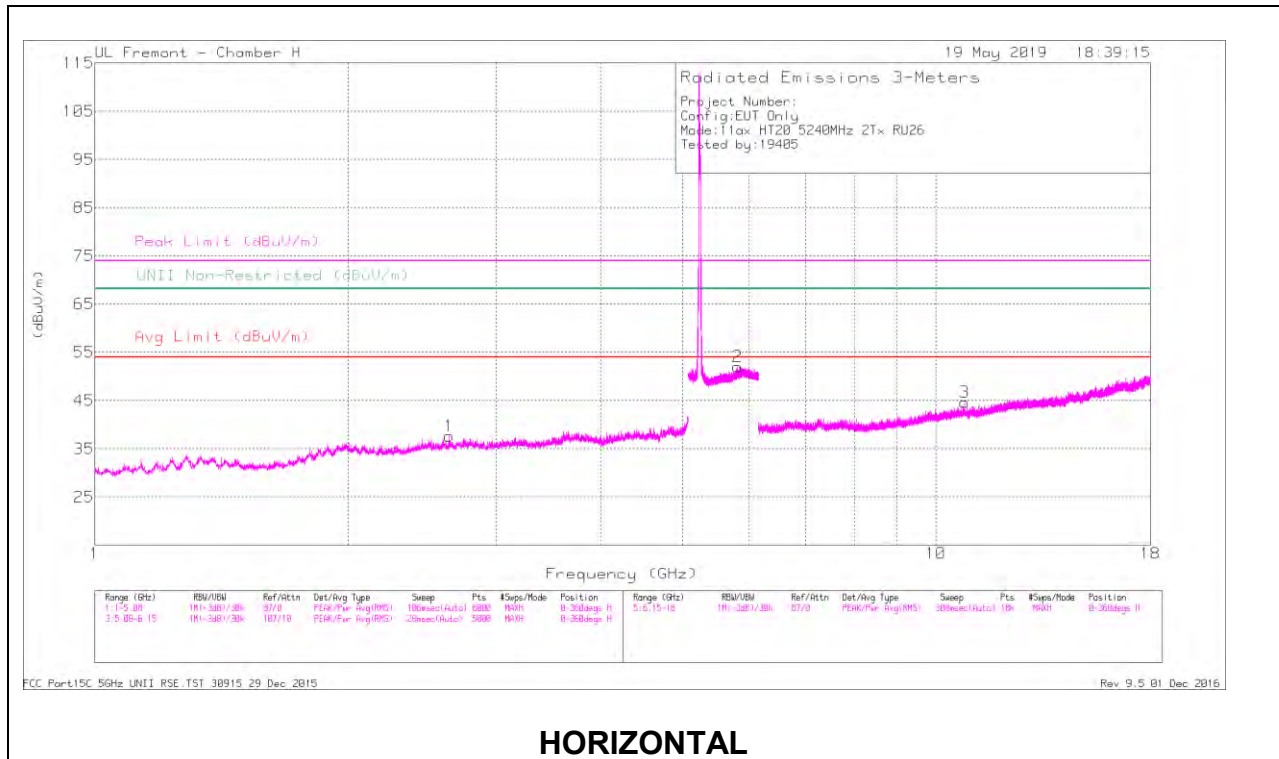
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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
3	* 10.833	35.33	PK-U	37.8	-23.4	0	49.73	-	-	74	-24.27	-	-	62	267	H
	* 10.831	23.83	ADR	37.8	-23.4	0	38.23	54	-15.77	-	-	-	-	62	267	H
4	1.957	31.44	ADR	31.9	-32.3	0	31.04	-	-	-	-	-	-	305	338	V
	1.959	43.48	PK-U	31.9	-32.3	0	43.08	-	-	-	-	68.2	-25.12	305	338	V
1	2.639	30.43	ADR	32.6	-31.3	0	31.73	-	-	-	-	-	-	204	287	H
	2.641	42.48	PK-U	32.6	-31.3	0	43.78	-	-	-	-	68.2	-24.42	204	287	H
2	5.813	43.33	PK-U	35.5	-20.6	0	58.23	-	-	-	-	68.2	-9.97	129	308	H
	5.813	31.69	ADR	35.5	-20.5	0	46.69	-	-	-	-	-	-	129	308	H
5	5.914	43.38	PK-U	35.6	-20.2	0	58.78	-	-	-	-	68.2	-9.42	355	100	V
	5.915	31.84	ADR	35.6	-20.2	0	47.24	-	-	-	-	-	-	355	100	V
6	15.004	24.15	ADR	39.8	-22.2	0	41.75	-	-	-	-	-	-	53	156	V
	15.006	37.12	PK-U	39.8	-22.2	0	54.72	-	-	-	-	68.2	-13.48	53	156	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

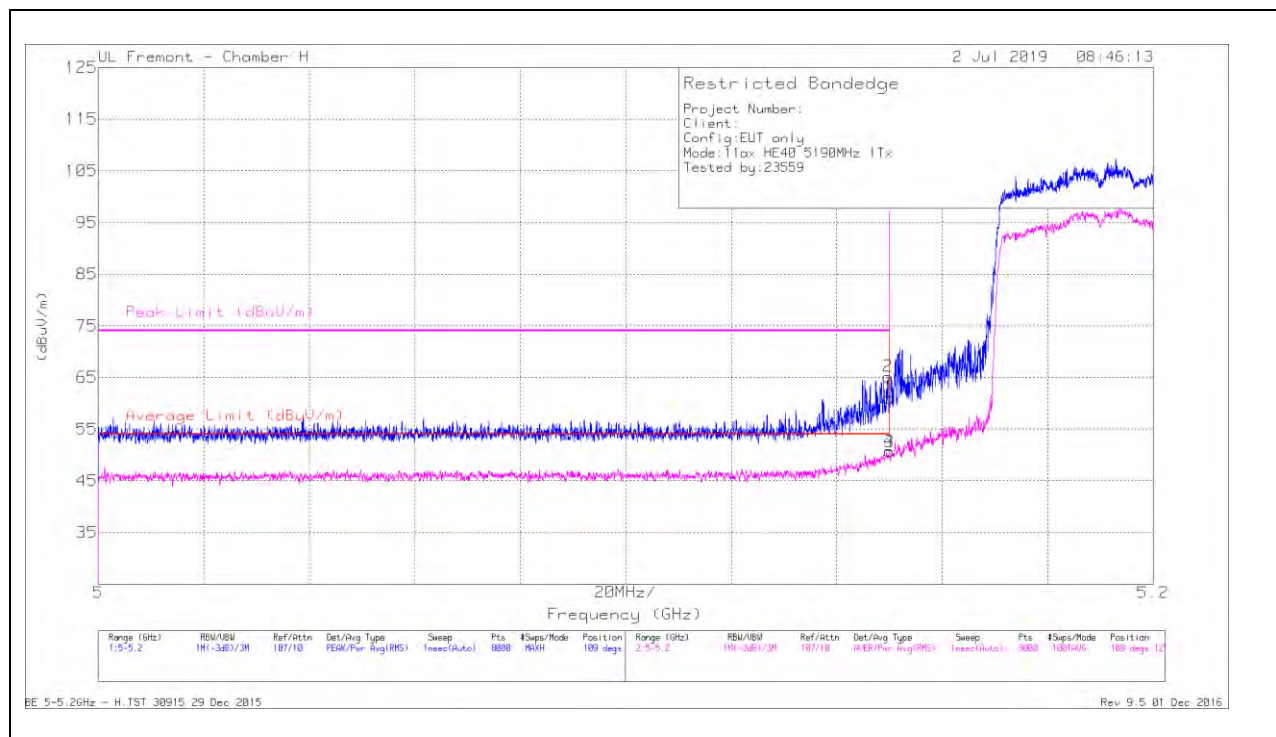
Rev 9.5 01 Dec 2016

1.1.5. TX ABOVE 1 GHz 802.11ax HE40 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE – 484 Tones, RU Index 65

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	47.57	Pk	34.4	-20.9	0	61.07	-	-	74	-12.93	109	125	H
2	* 5.15	51.68	Pk	34.4	-20.9	0	65.18	-	-	74	-8.82	109	125	H
3	* 5.15	37.13	RMS	34.4	-20.9	0	50.63	54	-3.37	-	-	109	125	H
4	* 5.15	37.23	RMS	34.4	-20.9	0	50.73	54	-3.27	-	-	109	125	H

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

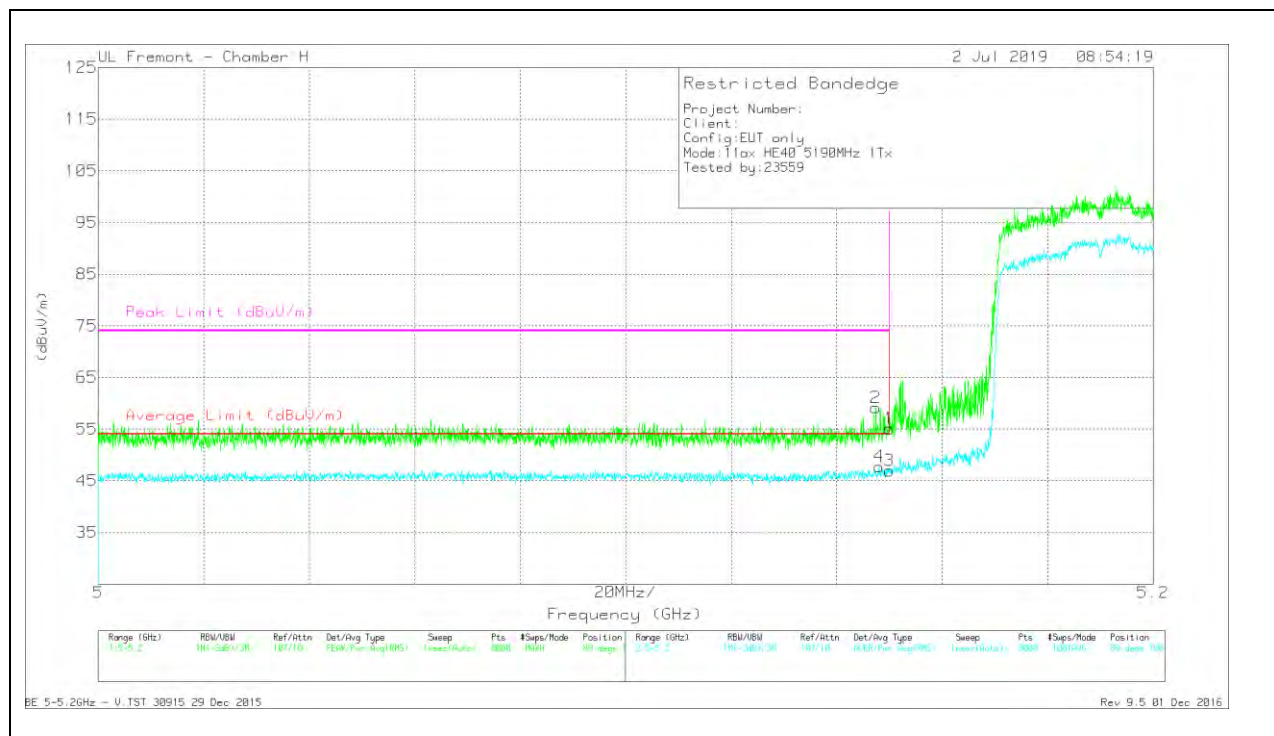
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	41.59	Pk	34.4	-20.9	0	55.09	-	-	74	-18.91	89	108	V
2	* 5.147	45.84	Pk	34.3	-21	0	59.14	-	-	74	-14.86	89	108	V
3	* 5.15	33.45	RMS	34.4	-20.9	0	46.95	54	-7.05	-	-	89	108	V
4	* 5.148	34.46	RMS	34.3	-21	0	47.76	54	-6.24	-	-	89	108	V

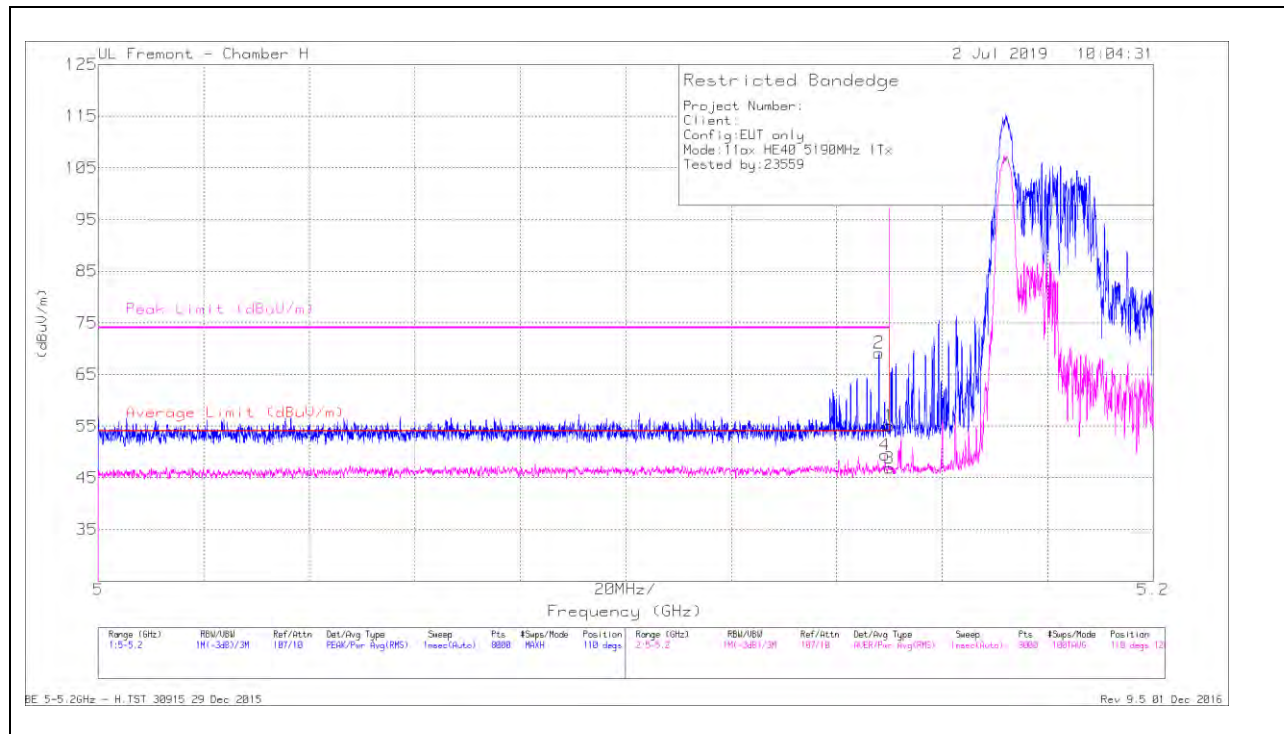
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

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1TX Antenna 6 MODE – 26 Tones, RU Index 0**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	41.58	Pk	34.4	-20.9	0	55.08	-	-	74	-18.92	110	126	H
2	* 5.148	55.88	Pk	34.3	-21	0	69.18	-	-	74	-4.82	110	126	H
3	* 5.15	33.35	RMS	34.4	-20.9	0	46.85	54	-7.15	-	-	110	126	H
4	* 5.149	36	RMS	34.4	-21	0	49.4	54	-4.6	-	-	110	126	H

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

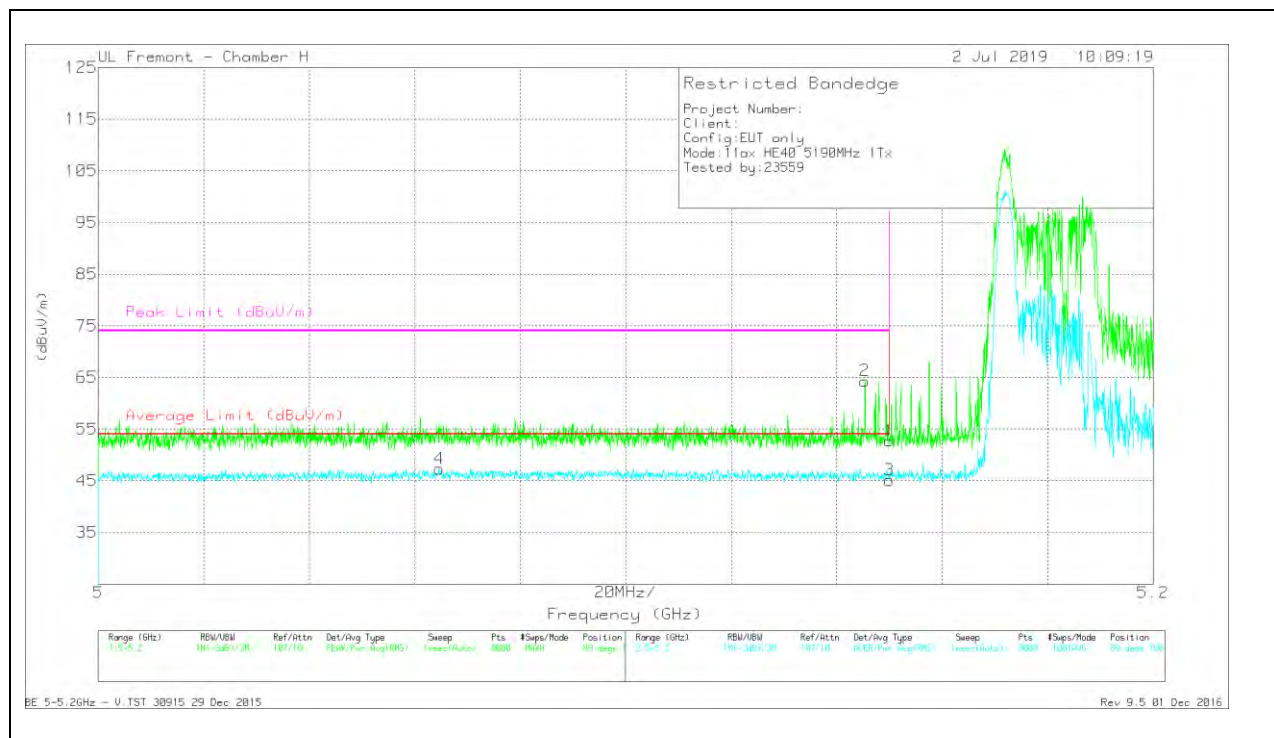
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	39.2	Pk	34.4	-20.9	0	52.7	-	-	74	-21.3	89	108	V
2	* 5.145	51.03	Pk	34.3	-21	0	64.33	-	-	74	-9.67	89	108	V
3	* 5.15	31.61	RMS	34.4	-20.9	0	45.11	54	-8.89	-	-	89	108	V
4	* 5.065	34.02	RMS	34.2	-20.9	0	47.32	54	-6.68	-	-	89	108	V

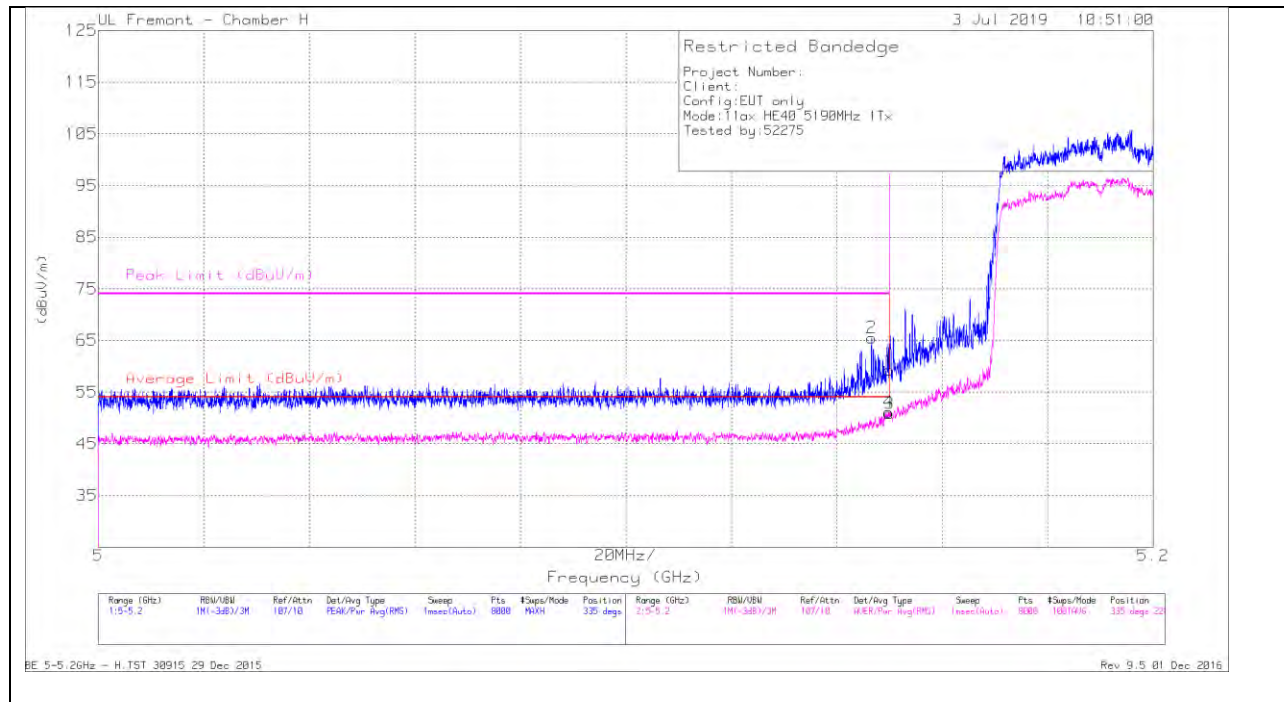
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

1TX Antenna 5 MODE – 484 Tones, RU Index 65**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	45.77	Pk	34.4	-20.9	0	59.27	-	-	74	-14.73	335	228	H
2	* 5.147	52.21	Pk	34.3	-21	0	65.51	-	-	74	-8.49	335	228	H
3	* 5.15	37.37	RMS	34.4	-20.9	0	50.87	54	-3.13	-	-	335	228	H
4	* 5.15	37.6	RMS	34.4	-20.9	0	51.1	54	-2.9	-	-	335	228	H

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

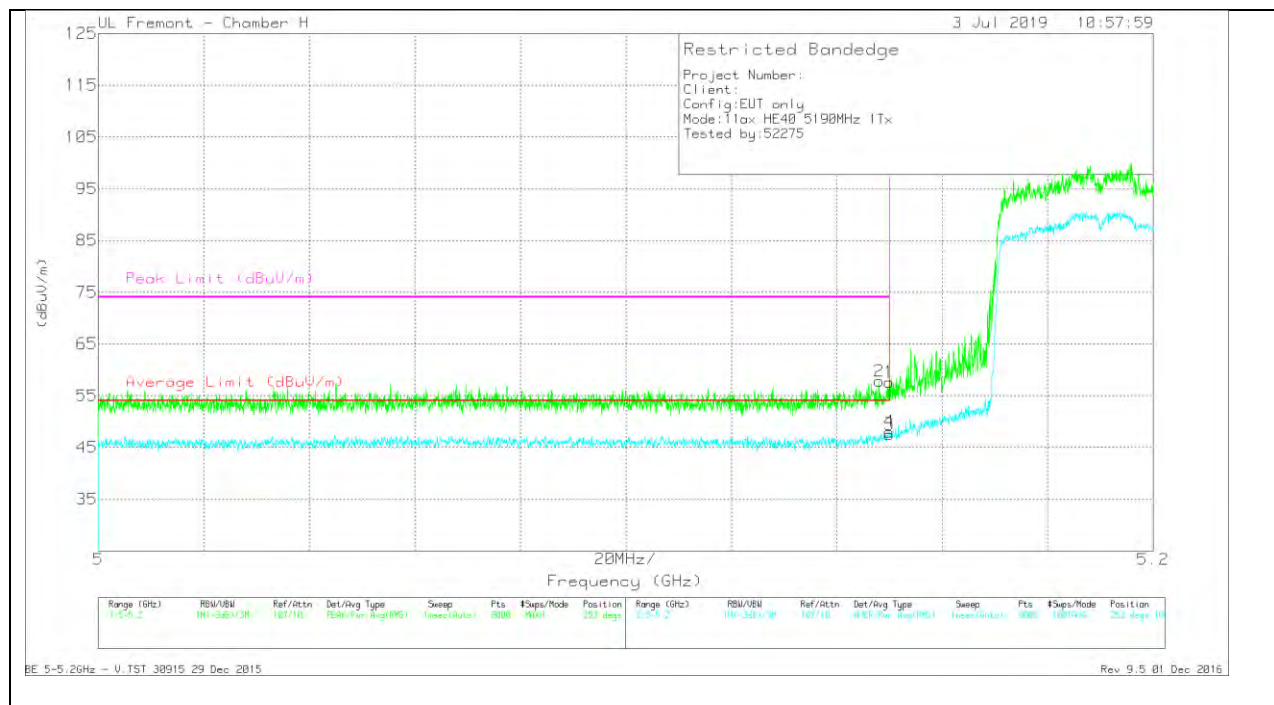
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	44.12	Pk	34.4	-20.9	0	57.62	-	-	74	-16.38	253	100	V
2	* 5.148	44.49	Pk	34.3	-21	0	57.79	-	-	74	-16.21	253	100	V
3	* 5.15	34.01	RMS	34.4	-20.9	0	47.51	54	-6.49	-	-	253	100	V
4	* 5.15	34.52	RMS	34.4	-20.9	0	48.02	54	-5.98	-	-	253	100	V

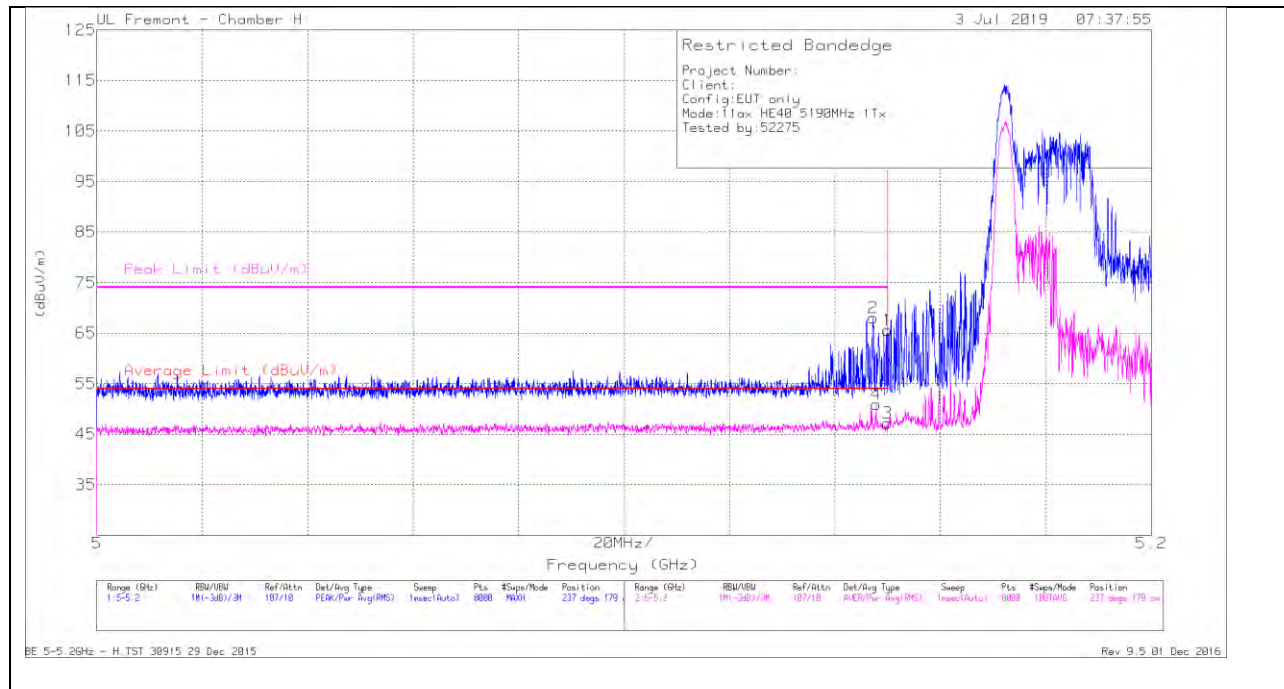
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

1TX Antenna 5 MODE – 26 Tones, RU Index 0**BANEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	52.03	Pk	34.4	-20.9	0	65.53	-	-	74	-8.47	237	179	H
2	* 5.147	54.78	Pk	34.3	-21	0	68.08	-	-	74	-5.92	237	179	H
3	* 5.15	33.66	RMS	34.4	-20.9	0	47.16	54	-6.84	-	-	237	179	H
4	* 5.148	37.58	RMS	34.3	-21	0	50.88	54	-3.12	-	-	237	179	H

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

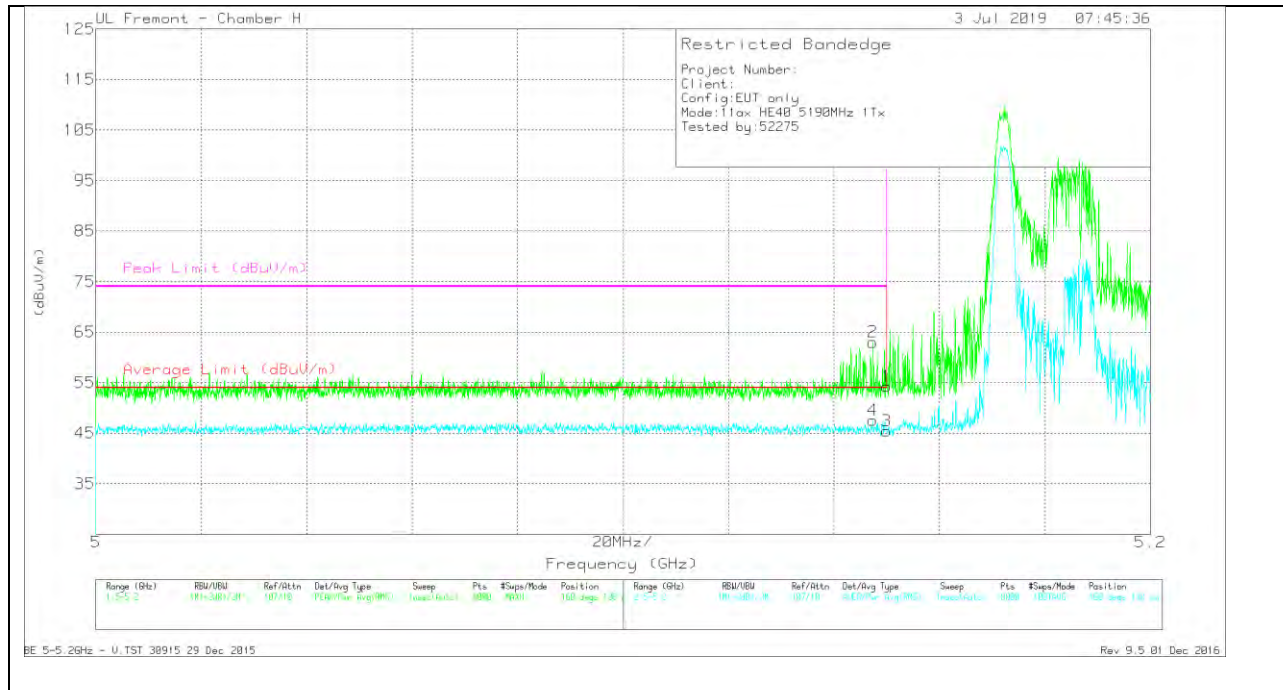
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	40.75	Pk	34.4	-20.9	0	54.25	-	-	74	-19.75	160	138	V
2	* 5.147	49.72	Pk	34.3	-21	0	63.02	-	-	74	-10.98	160	138	V
3	* 5.15	31.93	RMS	34.4	-20.9	0	45.43	54	-8.57	-	-	160	138	V
4	* 5.147	34.26	RMS	34.3	-21	0	47.56	54	-6.44	-	-	160	138	V

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

Pk - Peak detector

RMS - RMS detection

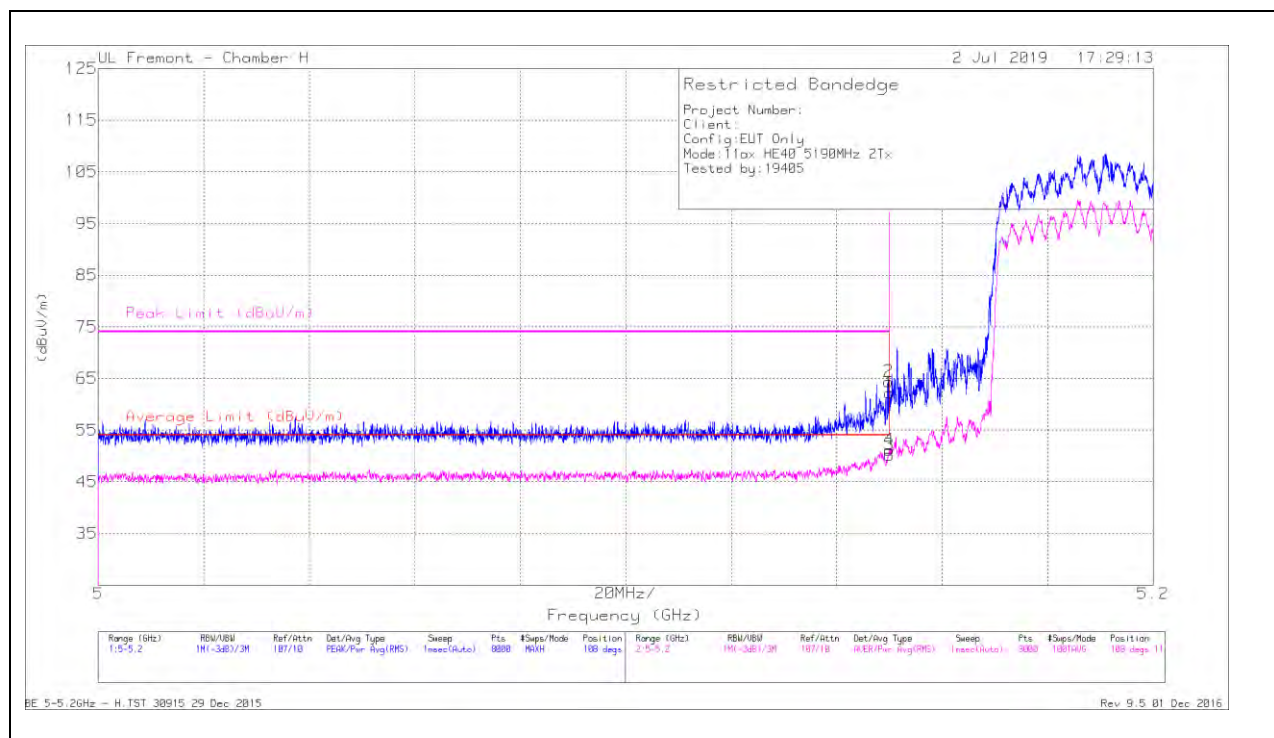
BE 5-5.2GHz - V.TST 30915 29 Dec 2015

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2TX Antenna 6 + Antenna 5 OFDMA MODE – 484 Tones, RU Index 65

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	48.72	Pk	34.4	-20.9	0	62.22	-	-	74	-11.78	108	113	H
2	* 5.15	50.92	Pk	34.4	-20.9	0	64.42	-	-	74	-9.58	108	113	H
3	* 5.15	36.72	RMS	34.4	-20.9	0	50.22	54	-3.78	-	-	108	113	H
4	* 5.15	37.63	RMS	34.4	-20.9	0	51.13	54	-2.87	-	-	108	113	H

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

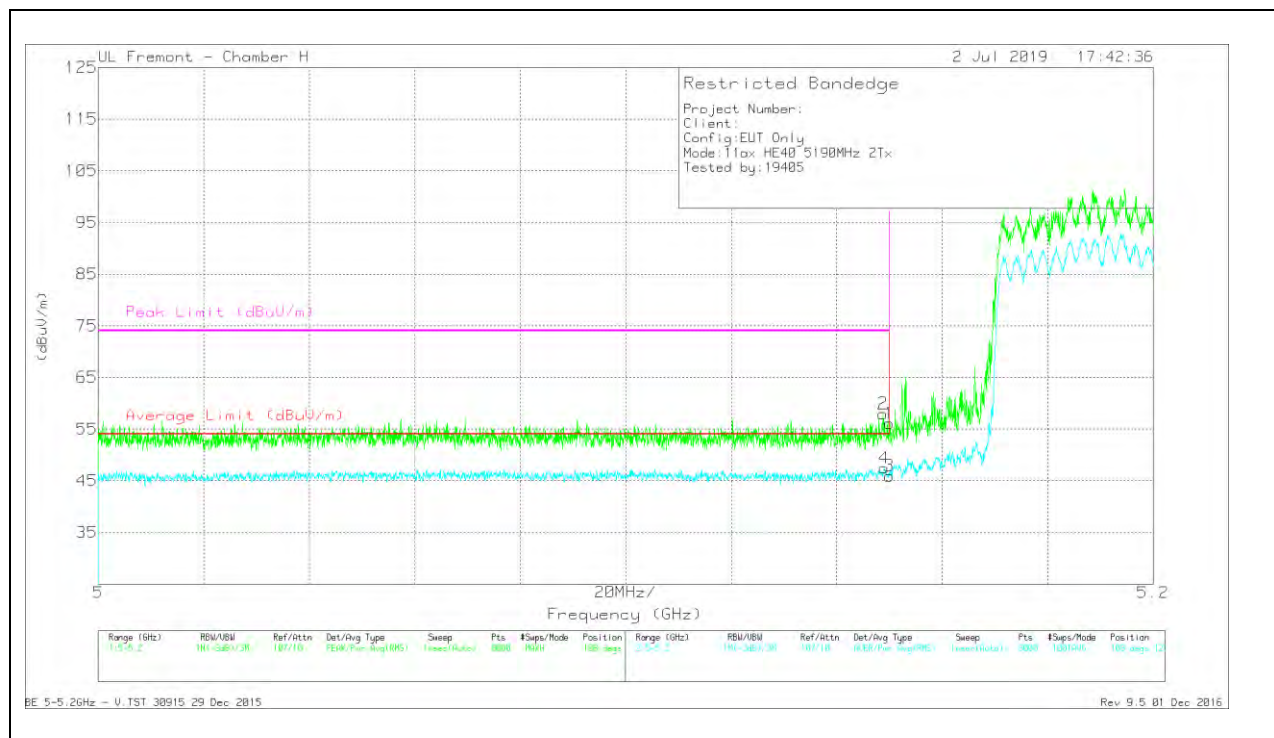
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	42.59	Pk	34.4	-20.9	0	56.09	-	-	74	-17.91	108	126	V
2	* 5.149	44.68	Pk	34.3	-21	0	57.98	-	-	74	-16.02	108	126	V
3	* 5.15	32.42	RMS	34.4	-20.9	0	45.92	54	-8.08	-	-	108	126	V
4	* 5.149	34.07	RMS	34.4	-21	0	47.47	54	-6.53	-	-	108	126	V

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

Pk - Peak detector

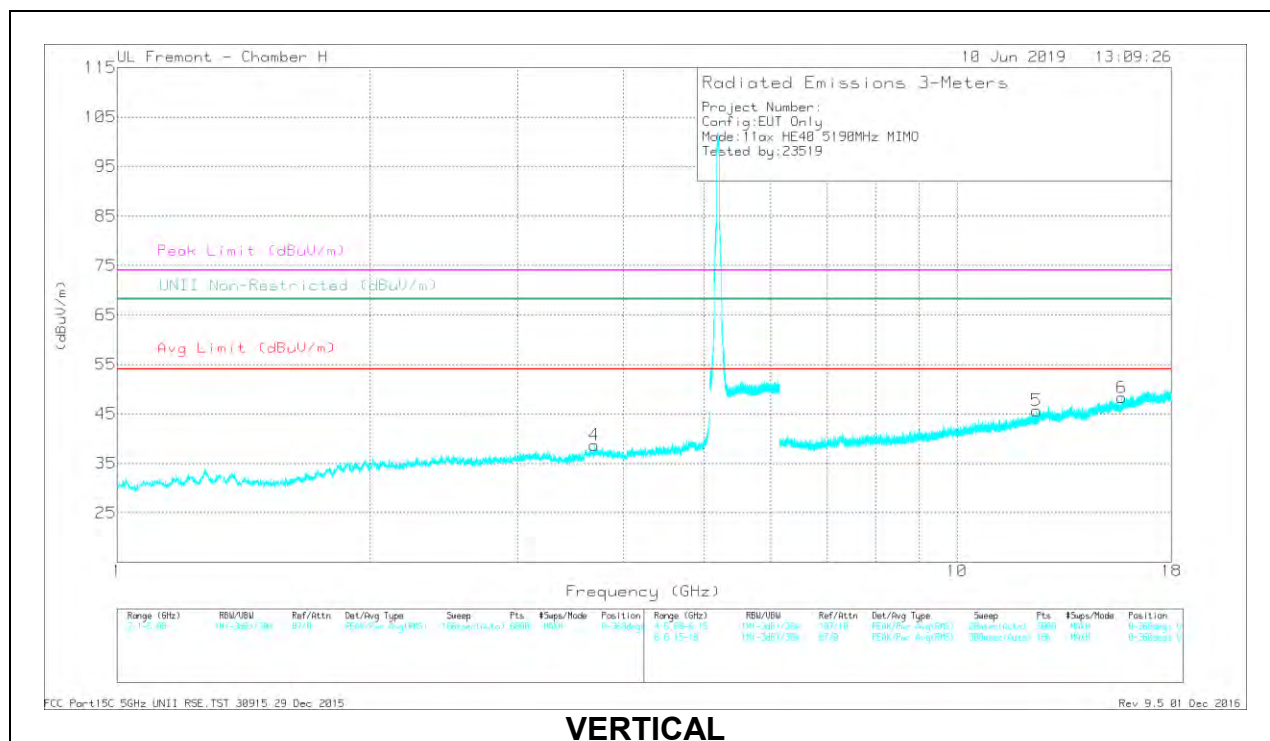
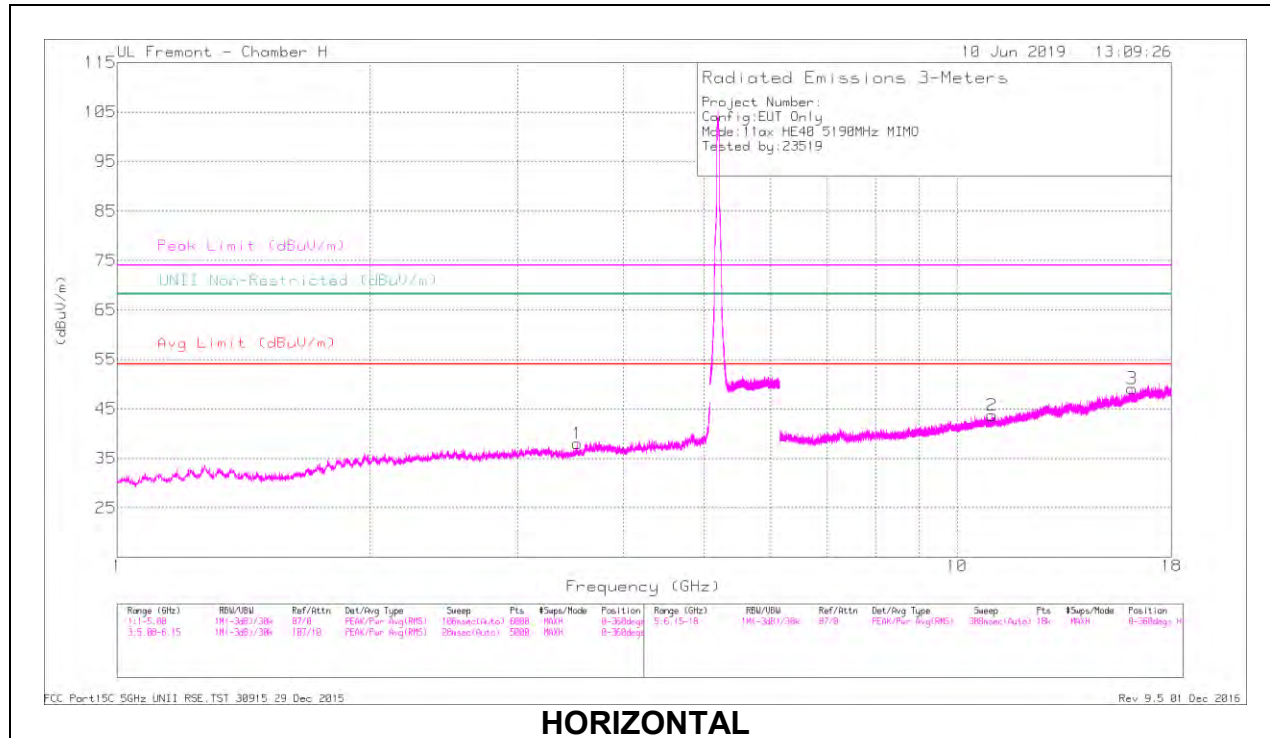
RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.53	42.79	PK-U	33.1	-31.1	0	44.79	-	-	74	-29.21	-	-	230	164	H
	* 3.531	30.64	ADR	33.1	-31.1	0	32.64	54	-21.36	-	-	-	-	230	164	H
4	* 3.696	41.13	PK-U	33.1	-30.7	0	43.53	-	-	74	-30.47	-	-	360	216	V
	* 3.699	30.23	ADR	33.1	-30.7	0	32.63	54	-21.37	-	-	-	-	360	216	V
2	* 11.007	35.62	PK-U	37.7	-23.3	0	50.02	-	-	74	-23.98	-	-	268	315	H
	* 11.005	25.07	ADR	37.7	-23.3	0	39.47	54	-14.53	-	-	-	-	268	315	H
3	* 16.16	35.82	PK-U	41.6	-22.2	0	55.22	-	-	74	-18.78	-	-	172	246	H
	* 16.158	24.65	ADR	41.6	-22.2	0	44.05	54	-9.95	-	-	-	-	172	246	H
5	* 12.437	36.4	PK-U	39.1	-23.9	0	51.6	-	-	74	-22.4	-	-	100	306	V
	* 12.44	25.25	ADR	39.1	-23.9	0	40.45	54	-13.55	-	-	-	-	100	306	V
6	* 15.703	36.73	PK-U	40.8	-22.6	0	54.93	-	-	74	-19.07	-	-	233	210	V
	* 15.7	25.17	ADR	40.8	-22.7	0	43.27	54	-10.73	-	-	-	-	233	210	V

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

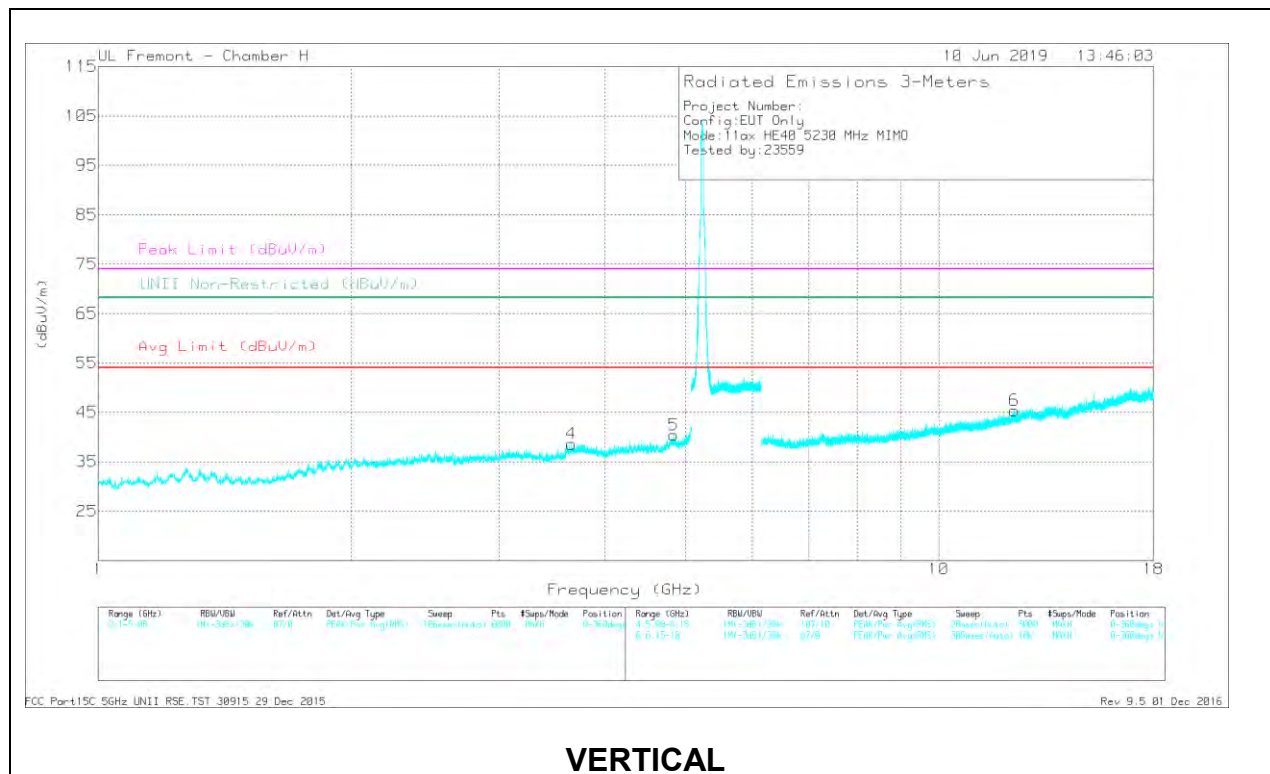
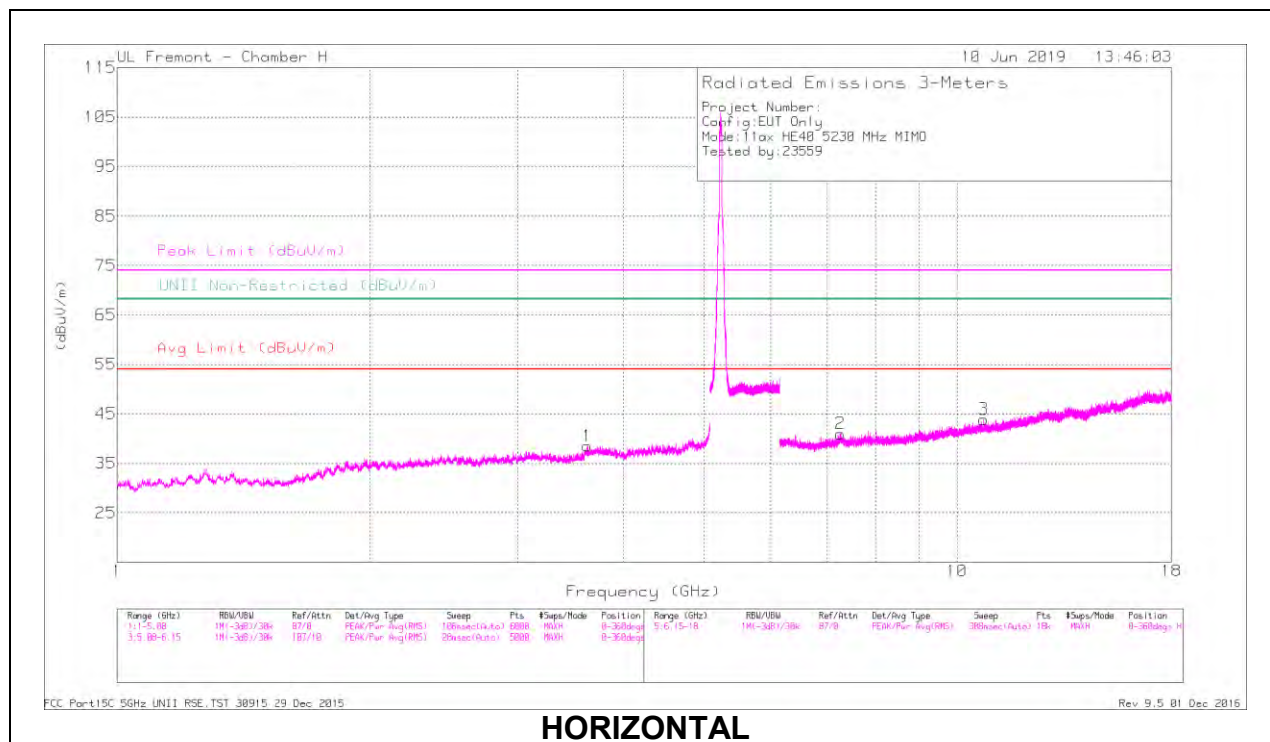
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

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HIGH CHANNEL RESULTS



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.629	41.75	PK-U	33.1	-31	0	43.85	-	-	74	-30.15	-	-	221	213	H
	* 3.626	30.56	ADR	33.1	-31	0	32.66	54	-21.34	-	-	-	-	221	213	H
4	* 3.652	41.45	PK-U	33	-30.9	0	43.55	-	-	74	-30.45	-	-	156	283	V
	* 3.651	30.18	ADR	33	-30.9	0	32.28	54	-21.72	-	-	-	-	156	283	V
5	* 4.835	41.61	PK-U	34.3	-30	0	45.91	-	-	74	-28.09	-	-	223	218	V
	* 4.834	30.48	ADR	34.3	-30	0	34.78	54	-19.22	-	-	-	-	223	218	V
2	* 7.265	39.19	PK-U	36	-26.3	0	48.89	-	-	74	-25.11	-	-	115	249	H
	* 7.268	27.21	ADR	36	-26.3	0	36.91	54	-17.09	-	-	-	-	115	249	H
3	* 10.751	35.95	PK-U	37.6	-23.4	0	50.15	-	-	74	-23.85	-	-	157	180	H
	* 10.752	24.48	ADR	37.6	-23.4	0	38.68	54	-15.32	-	-	-	-	157	180	H
6	* 12.298	35.42	PK-U	38.9	-23	0	51.32	-	-	74	-22.68	-	-	238	137	V
	* 12.297	24.81	ADR	38.9	-23	0	40.71	54	-13.29	-	-	-	-	238	137	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

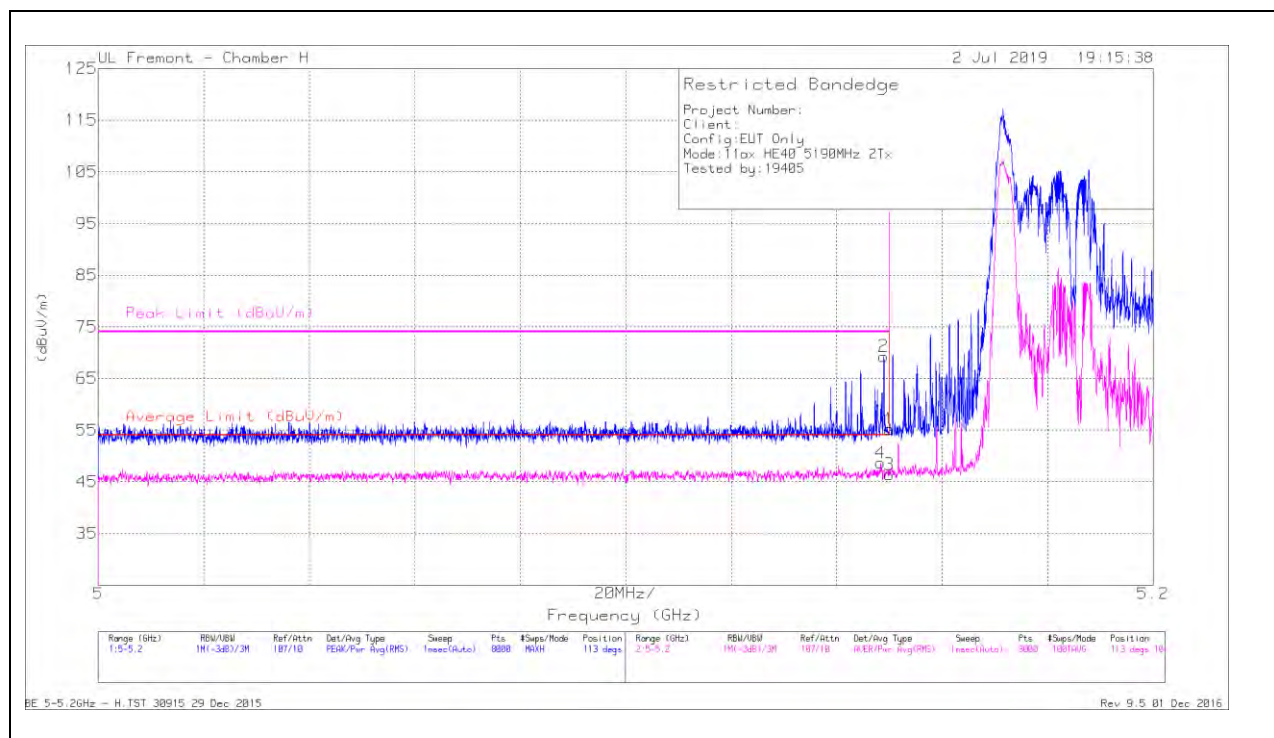
FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

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2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	41.71	Pk	34.4	-20.9	0	55.21	-	-	74	-18.79	113	104	H
2	* 5.149	55.9	Pk	34.4	-21	0	69.3	-	-	74	-4.7	113	104	H
3	* 5.15	32.89	RMS	34.4	-20.9	0	46.39	54	-7.61	-	-	113	104	H
4	* 5.148	35.39	RMS	34.3	-21	0	48.69	54	-5.31	-	-	113	104	H

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

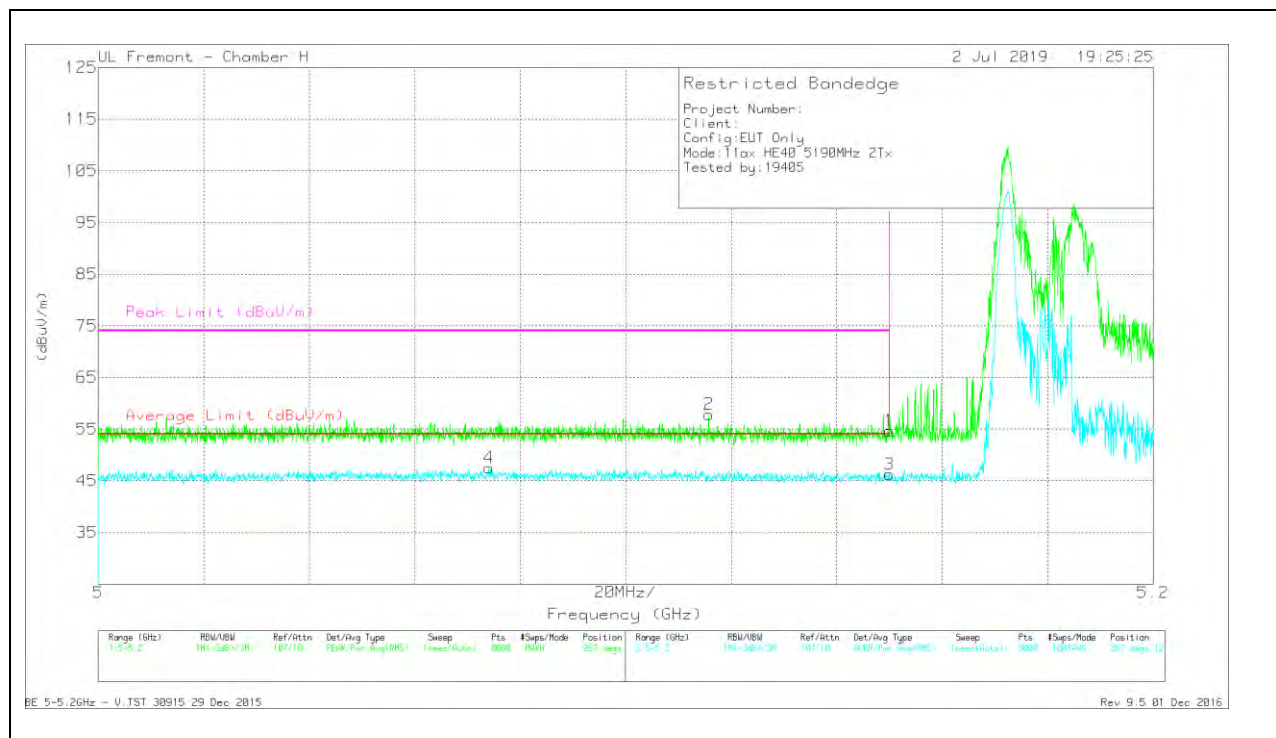
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	41.18	Pk	34.4	-20.9	0	54.68	-	-	74	-19.32	267	123	V
2	* 5.116	44.36	Pk	34.3	-20.8	0	57.86	-	-	74	-16.14	267	123	V
3	* 5.15	32.73	RMS	34.4	-20.9	0	46.23	54	-7.77	-	-	267	123	V
4	* 5.074	34.2	RMS	34.2	-20.9	0	47.5	54	-6.5	-	-	267	123	V

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

Pk - Peak detector

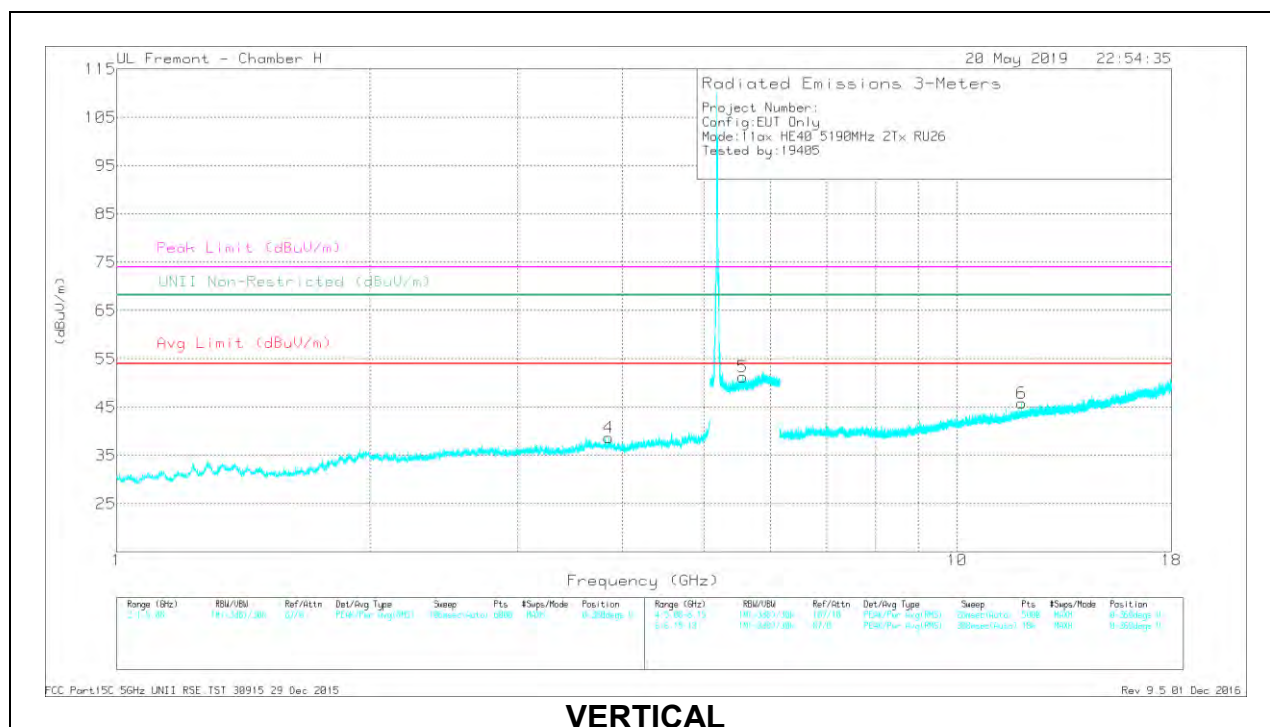
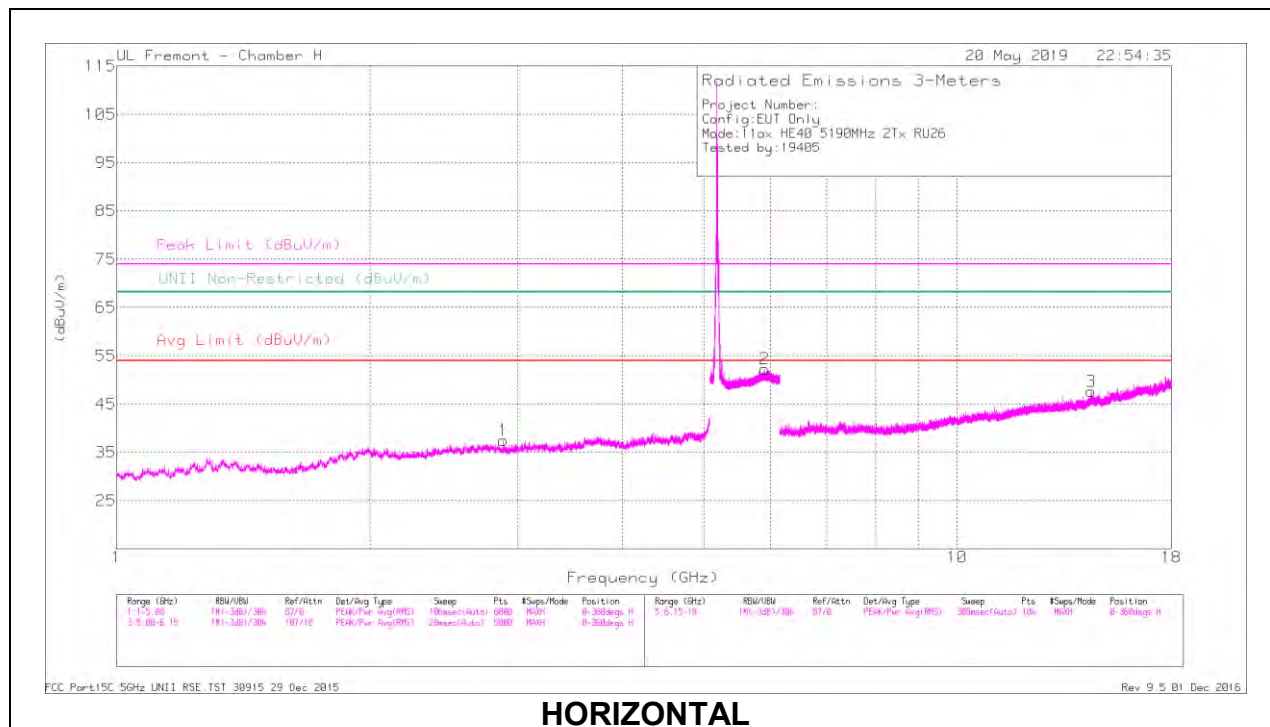
RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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	* 2.883	42.92	PK-U	32.3	-31.5	0	43.72	-	-	74	-30.28	-	-	295	218	H
	* 2.884	31.2	ADR	32.3	-31.4	0	32.1	54	-21.9	-	-	-	-	295	218	H
4	* 3.847	42.3	PK-U	33.4	-30.5	0	45.2	-	-	74	-28.8	-	-	326	141	V
	* 3.85	30.83	ADR	33.4	-30.5	0	33.73	54	-20.27	-	-	-	-	326	141	V
6	* 11.95	35.92	PK-U	38.8	-23.5	0	51.22	-	-	74	-22.78	-	-	137	255	V
	* 11.949	24.96	ADR	38.8	-23.5	0	40.26	54	-13.74	-	-	-	-	137	255	V
5	5.557	31.76	ADR	34.7	-20.5	0	45.96	-	-	-	-	-	-	319	117	V
	5.56	43.31	PK-U	34.7	-20.5	0	57.51	-	-	-	-	68.2	-10.69	319	117	V
2	5.902	43.62	PK-U	35.6	-20.1	0	59.12	-	-	-	-	68.2	-9.08	245	106	H
	5.902	32.18	ADR	35.6	-20.1	0	47.68	-	-	-	-	-	-	245	106	H
3	14.454	24.31	ADR	39.9	-21.5	0	42.71	-	-	-	-	-	-	15	270	H
	14.455	35.04	PK-U	39.9	-21.5	0	53.44	-	-	-	-	68.2	-14.76	15	270	H

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

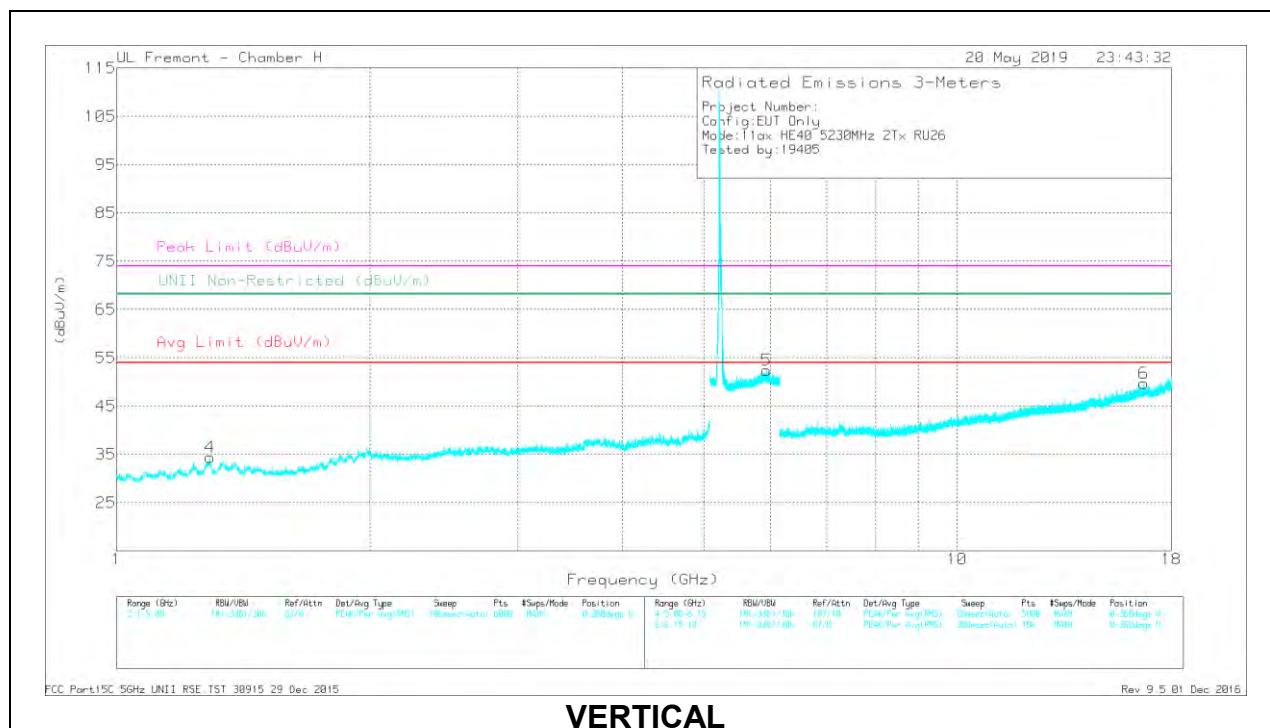
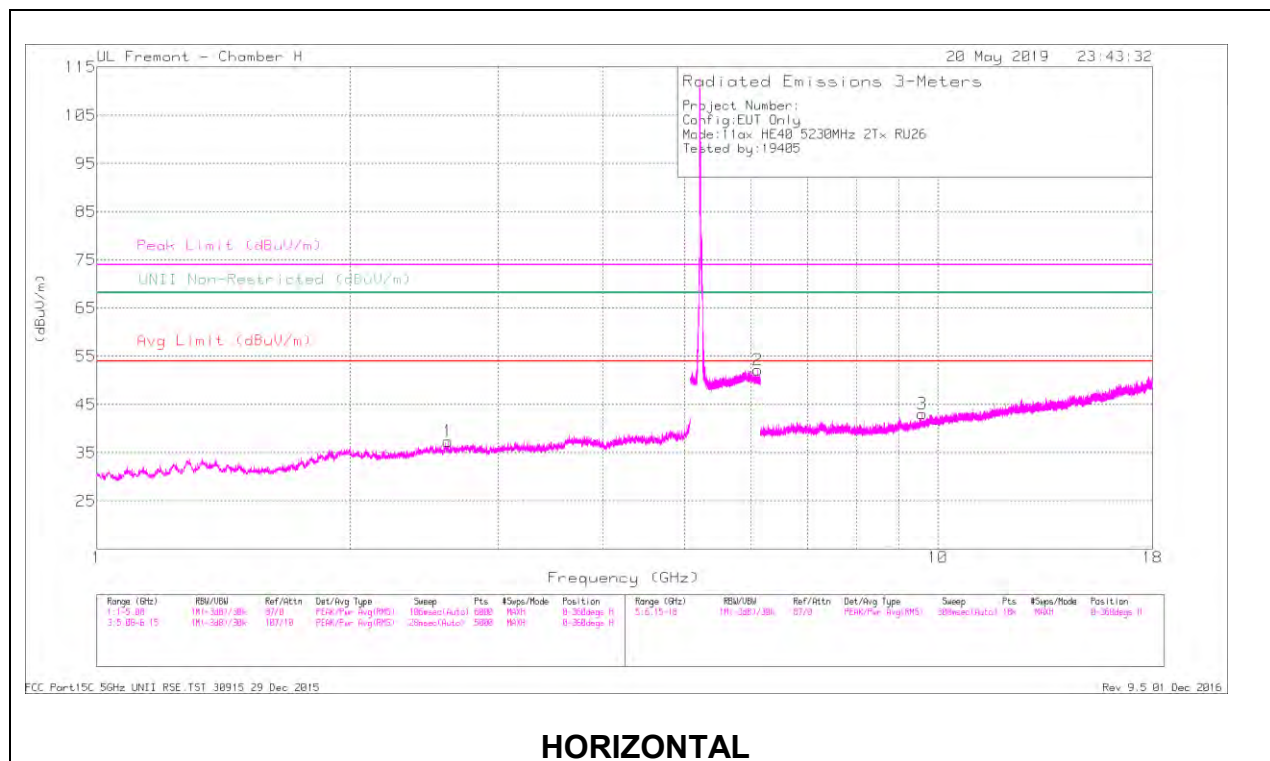
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Correcte d 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
4	* 1.291	45.42	PK-U	29.3	-32.9	0	41.82	-	-	74	-32.18	-	-	249	126	V
	* 1.289	33.04	ADR	29.3	-32.9	0	29.44	54	-24.56	-	-	-	-	249	126	V
1	2.616	42.48	PK-U	32.6	-31.2	0	43.88	-	-	-	-	68.2	-24.32	194	156	H
	2.618	30.23	ADR	32.6	-31.2	0	31.63	-	-	-	-	-	-	194	156	H
5	5.937	43.28	PK-U	35.6	-20.1	0	58.78	-	-	-	-	68.2	-9.42	82	382	V
	5.937	31.97	ADR	35.6	-20.1	0	47.47	-	-	-	-	-	-	82	382	V
2	6.113	42.45	PK-U	35.6	-19.7	0	58.35	-	-	-	-	68.2	-9.85	141	298	H
	6.116	30.84	ADR	35.6	-19.8	0	46.64	-	-	-	-	-	-	141	298	H
3	9.575	37.13	PK-U	36.8	-24.4	0	49.53	-	-	-	-	68.2	-18.67	162	258	H
	9.576	25.19	ADR	36.9	-24.4	0	37.69	-	-	-	-	-	-	162	258	H
6	16.675	35.5	PK-U	41.7	-21.4	0	55.8	-	-	-	-	68.2	-12.4	71	115	V
	16.675	24	ADR	41.7	-21.4	0	44.3	-	-	-	-	-	-	71	115	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 29 Dec 2015

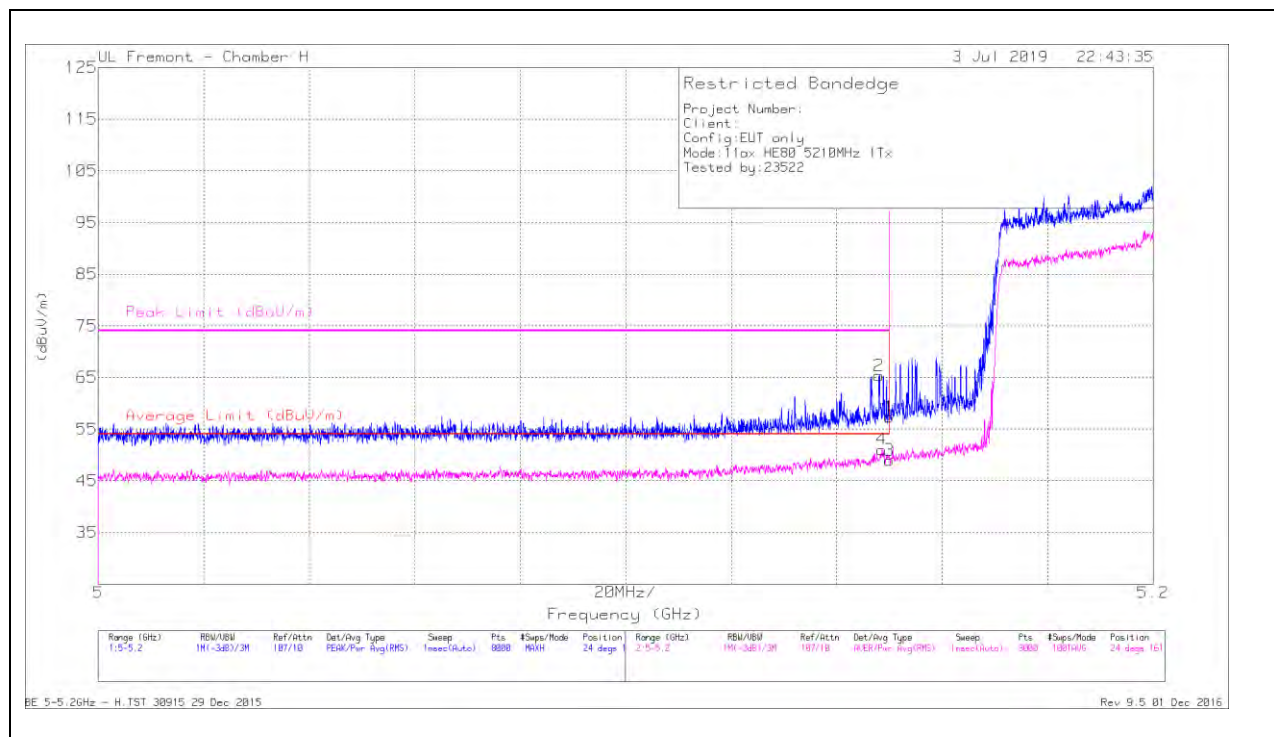
Rev 9.5 01 Dec 2016

1.1.6. TX ABOVE 1 GHz 802.11ax HE80 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE – 996 Tones, RU Index 67

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	43.84	Pk	34.4	-20.9	0	57.34	-	-	74	-16.66	24	161	H
2	* 5.148	52.04	Pk	34.3	-21	0	65.34	-	-	74	-8.66	24	161	H
3	* 5.15	35.44	RMS	34.4	-20.9	0.12	49.06	54	-4.94	-	-	24	161	H
4	* 5.149	37.77	RMS	34.3	-21	0.12	51.19	54	-2.81	-	-	24	161	H

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

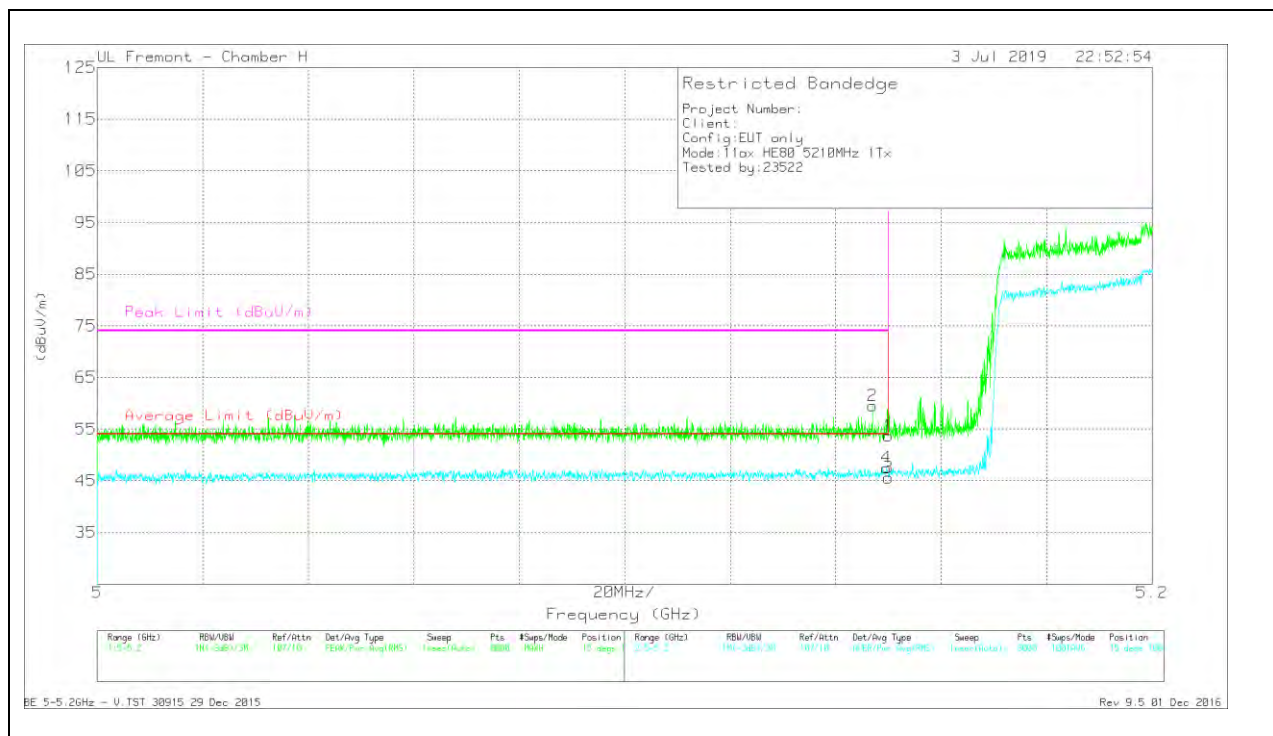
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	40.18	Pk	34.4	-20.9	0	53.68	-	-	74	-20.32	15	100	V
2	* 5.147	46.22	Pk	34.3	-21	0	59.52	-	-	74	-14.48	15	100	V
3	* 5.15	32.1	RMS	34.4	-20.9	0.12	45.72	54	-8.28	-	-	15	100	V
4	* 5.15	34.03	RMS	34.4	-20.9	0.12	47.75	54	-6.35	-	-	15	100	V

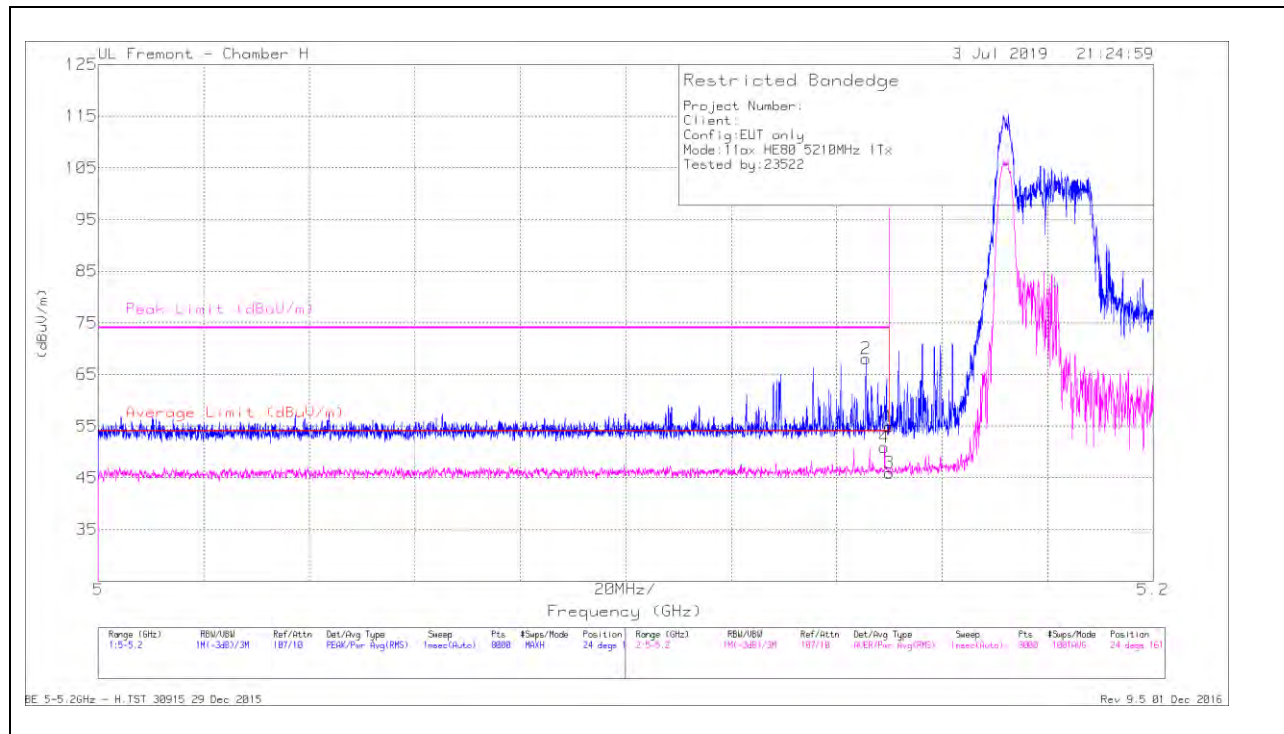
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

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1TX Antenna 6 MODE – 26 Tones, RU Index 0**BANDEDGE (MID CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtri/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	* 5.15	41.38	Pk	34.4	-20.9	0	54.88	-	-	74	-19.12	24	161	H
2	* 5.146	54.76	Pk	34.3	-21	0	68.06	-	-	74	-5.94	24	161	H
3	* 5.15	32.44	RMS	34.4	-20.9	0	45.94	54	-8.06	-	-	24	161	H
4	* 5.149	37.46	RMS	34.4	-21	0	50.86	54	-3.14	-	-	24	161	H

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

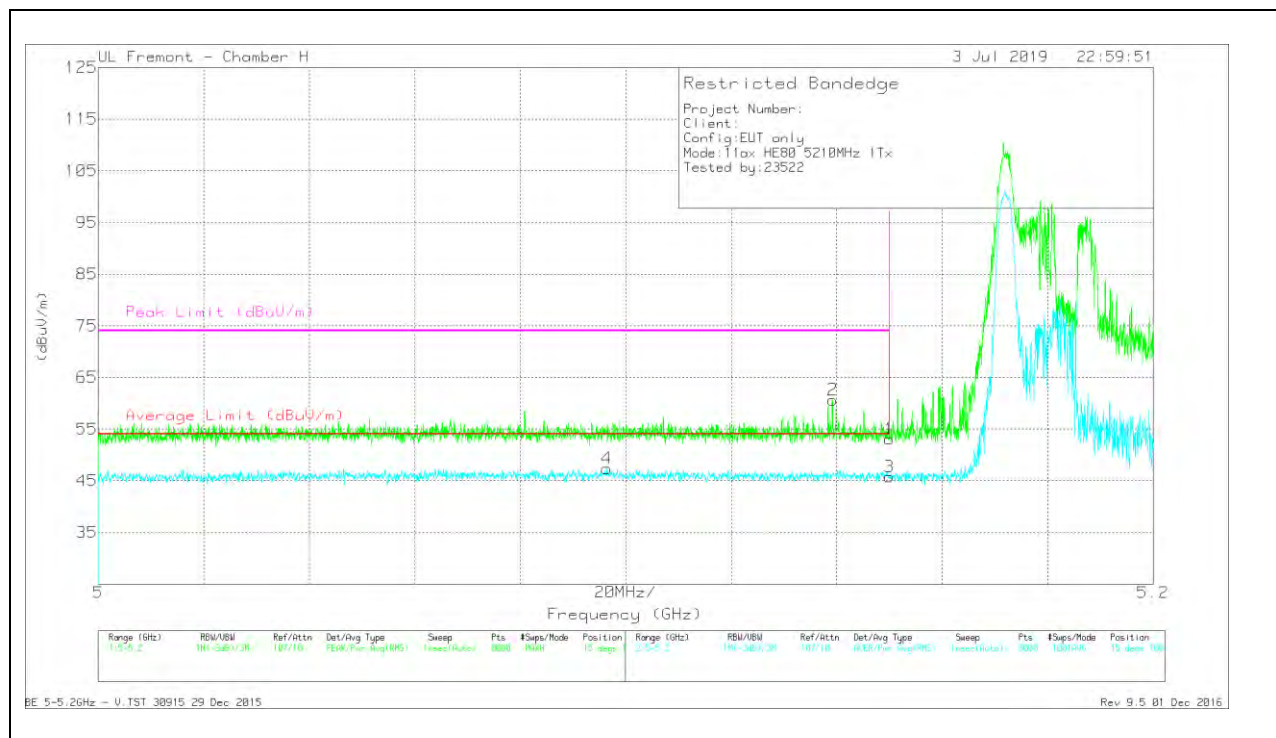
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.58	Pk	34.4	-20.9	53.08	-	-	74	-20.92	15	100	V
2	* 5.139	47.14	Pk	34.4	-20.9	60.64	-	-	74	-13.36	15	100	V
3	* 5.15	32.27	RMS	34.4	-20.9	45.77	54	-8.23	-	-	15	100	V
4	* 5.096	33.88	RMS	34.3	-20.8	47.38	54	-6.62	-	-	15	100	V

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

Pk - Peak detector

RMS - RMS detection

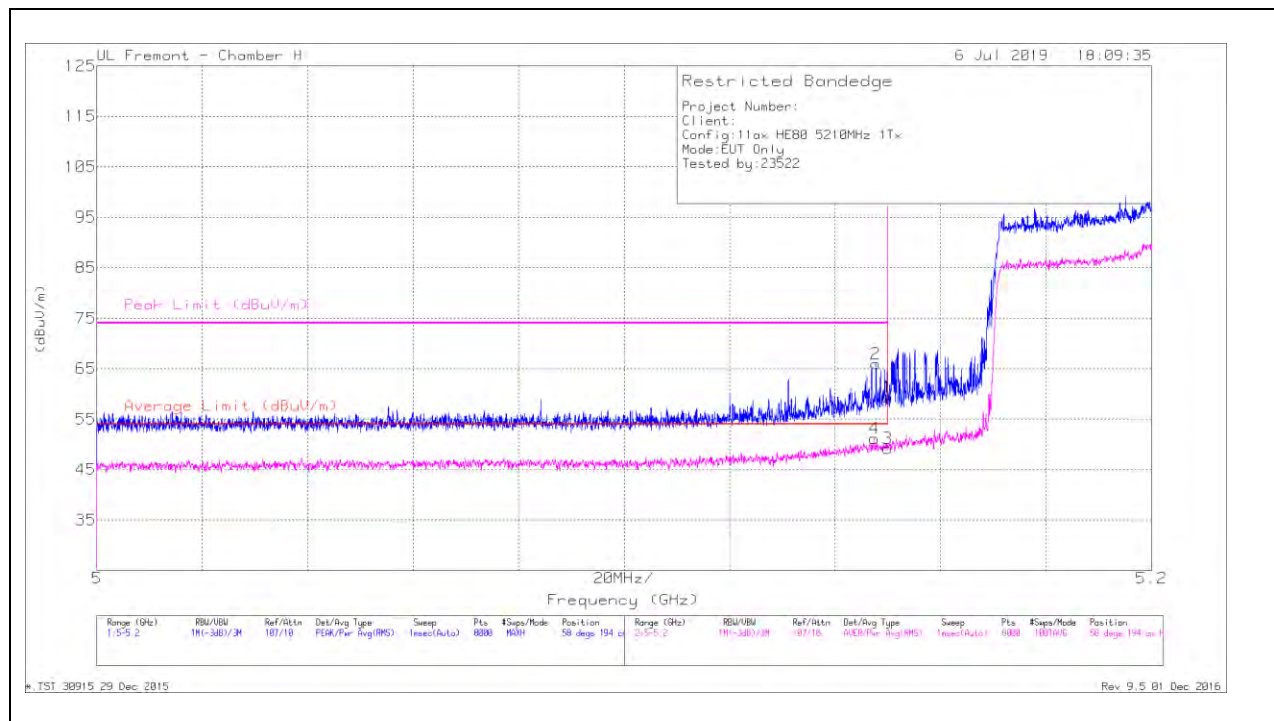
BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

1TX Antenna 5 MODE – 996 Tones, RU Index 67

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	45.85	Pk	34.4	-20.9	0	59.35	-	-	74	-14.65	58	194	H
2	* 5.148	52.69	Pk	34.3	-21	0	65.99	-	-	74	-8.01	58	194	H
3	* 5.15	35.72	RMS	34.4	-20.9	0.12	49.34	54	-4.66	-	-	58	194	H
4	* 5.147	37.88	RMS	34.3	-21	0.12	51.30	54	-2.70	-	-	58	194	H

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

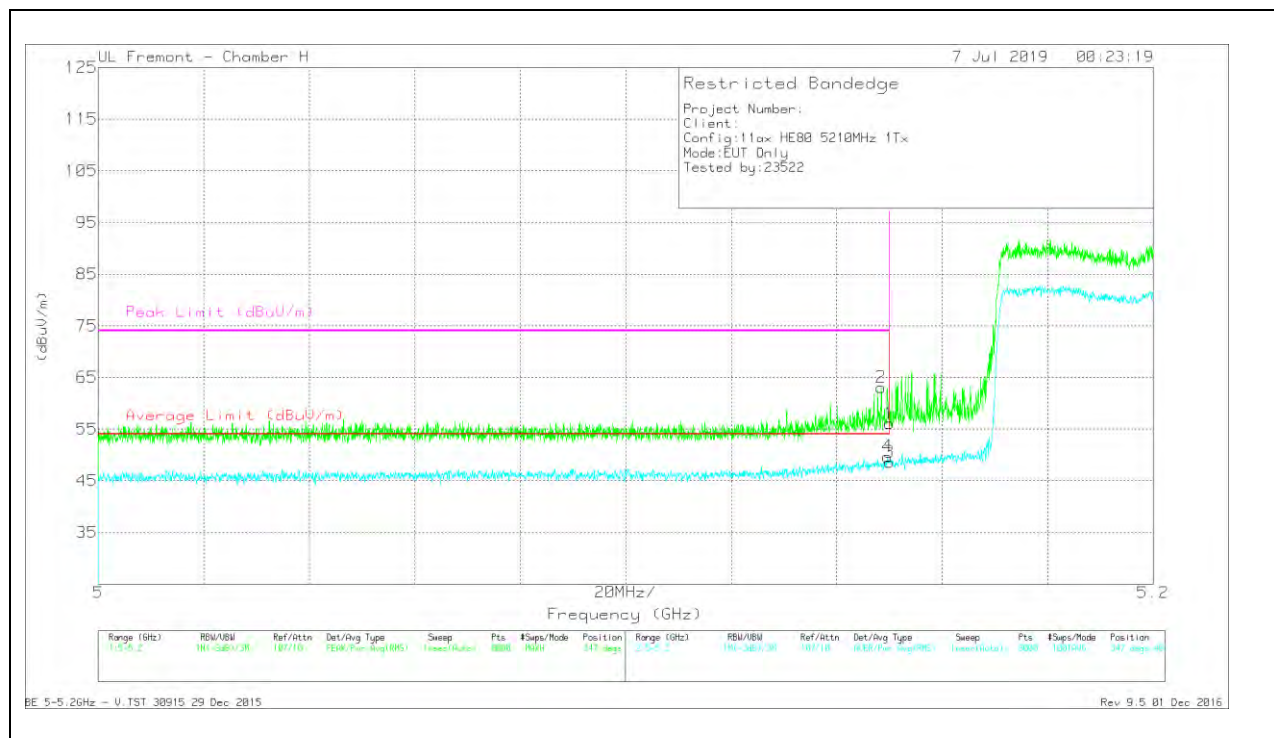
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	42.6	Pk	34.4	-20.9	0	56.1	-	-	74	-17.9	347	403	V
2	* 5.148	49.78	Pk	34.3	-21	0	63.08	-	-	74	-10.92	347	403	V
3	* 5.15	35.1	RMS	34.4	-20.9	0.12	48.72	54	-5.28	-	-	347	403	V
4	* 5.15	36.19	RMS	34.4	-20.9	0.12	49.81	54	-4.19	-	-	347	403	V

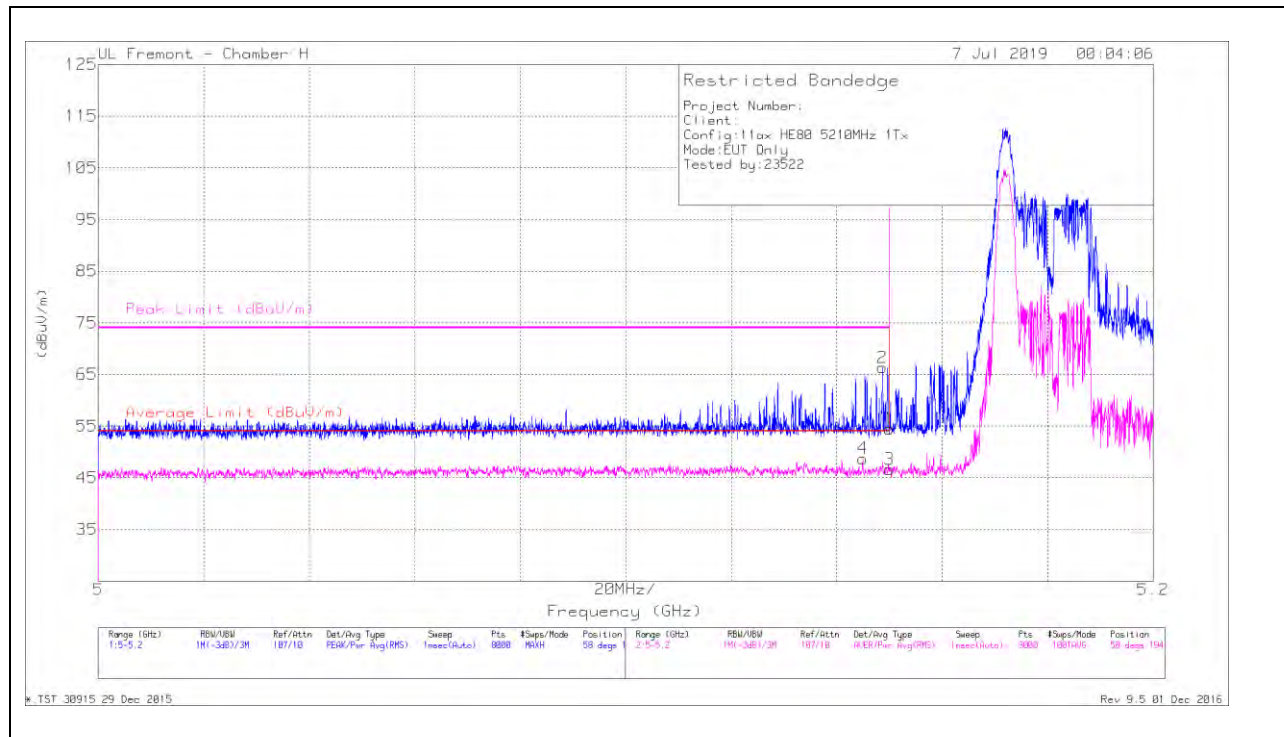
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

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1TX Antenna 5 MODE – 26 Tones, RU Index 0**BANDEDGE (MID CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.15	41	Pk	34.4	-20.9	0	54.5	-	-	74	-19.5	58	194	H
2	* 5.149	53.03	Pk	34.3	-21	0	66.33	-	-	74	-7.67	58	194	H
3	* 5.15	33.14	RMS	34.4	-20.9	0	46.64	54	-7.36	-	-	58	194	H
4	* 5.145	35.43	RMS	34.3	-21	0	48.73	54	-5.27	-	-	58	194	H

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

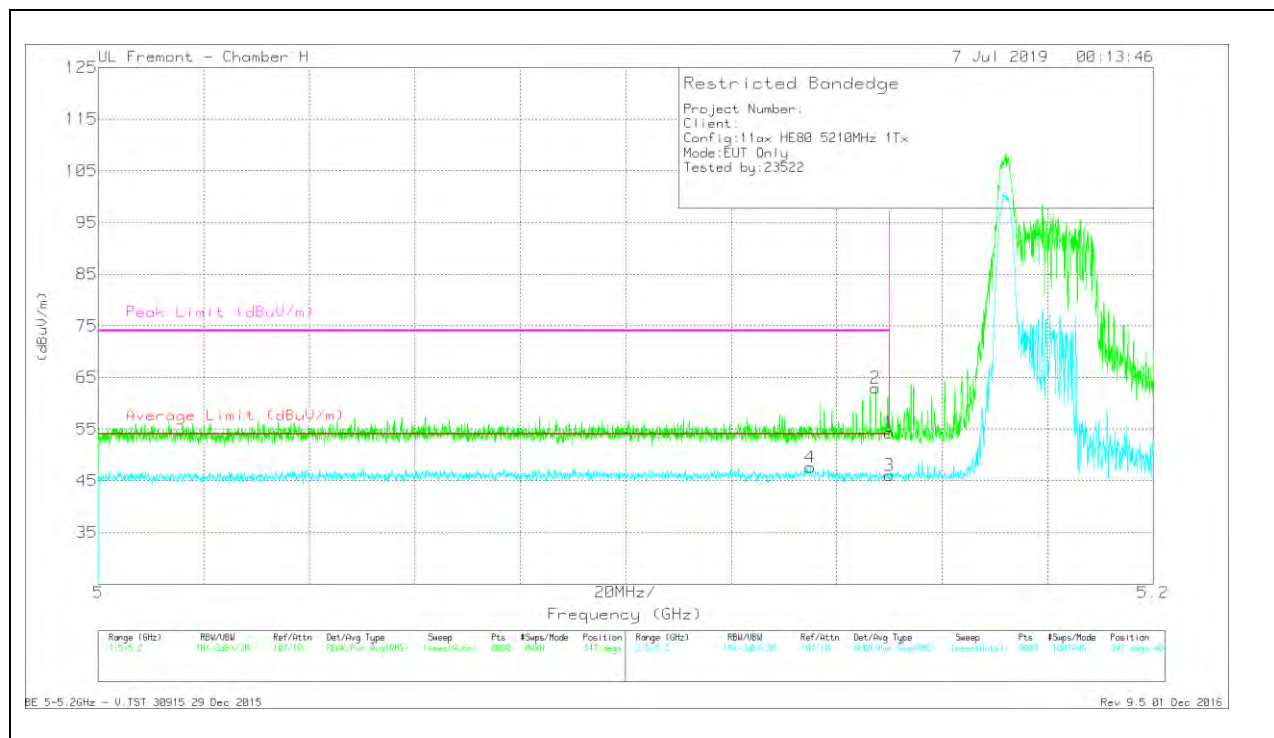
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	40.82	Pk	34.4	-20.9	0	54.32	-	-	74	-19.68	347	403	V
2	* 5.147	49.65	Pk	34.3	-21	0	62.95	-	-	74	-11.05	347	403	V
3	* 5.15	32.52	RMS	34.4	-20.9	0	46.02	54	-7.98	-	-	347	403	V
4	* 5.135	34.08	RMS	34.4	-20.9	0	47.58	54	-6.42	-	-	347	403	V

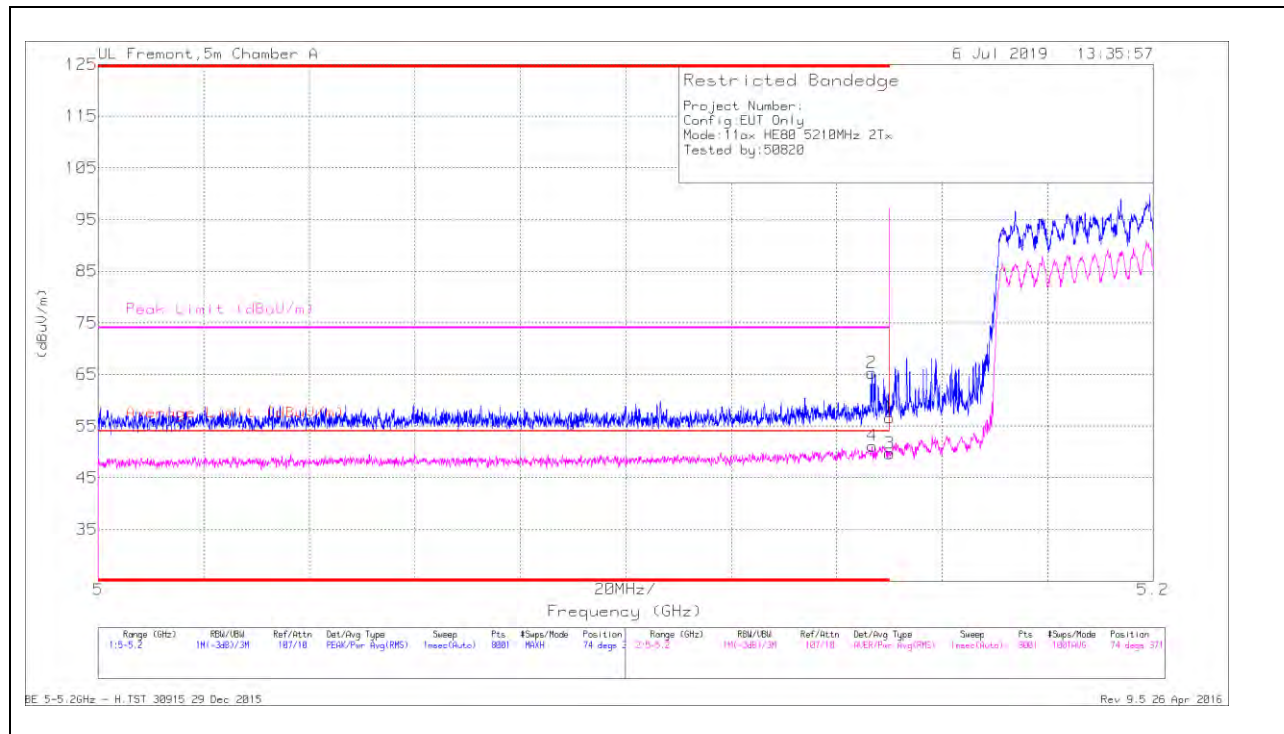
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

2TX Antenna 6 + Antenna 5 OFDMA MODE – 996 Tones, RU Index 67**BANDEDGE (MID CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ctrl/Filt/P ad (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	* 5.147	48.83	Pk	34.5	-18	0	65.33	-	-	74	-8.67	74	371	H
4	* 5.147	34.68	RMS	34.5	-18	0.10	51.28	54	-2.72	-	-	74	371	H
1	5.15	40.05	Pk	34.6	-18	0	56.65	-	-	74	-17.35	74	371	H
3	5.15	33.15	RMS	34.6	-18	0.10	49.85	54	-4.15	-	-	74	371	H

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

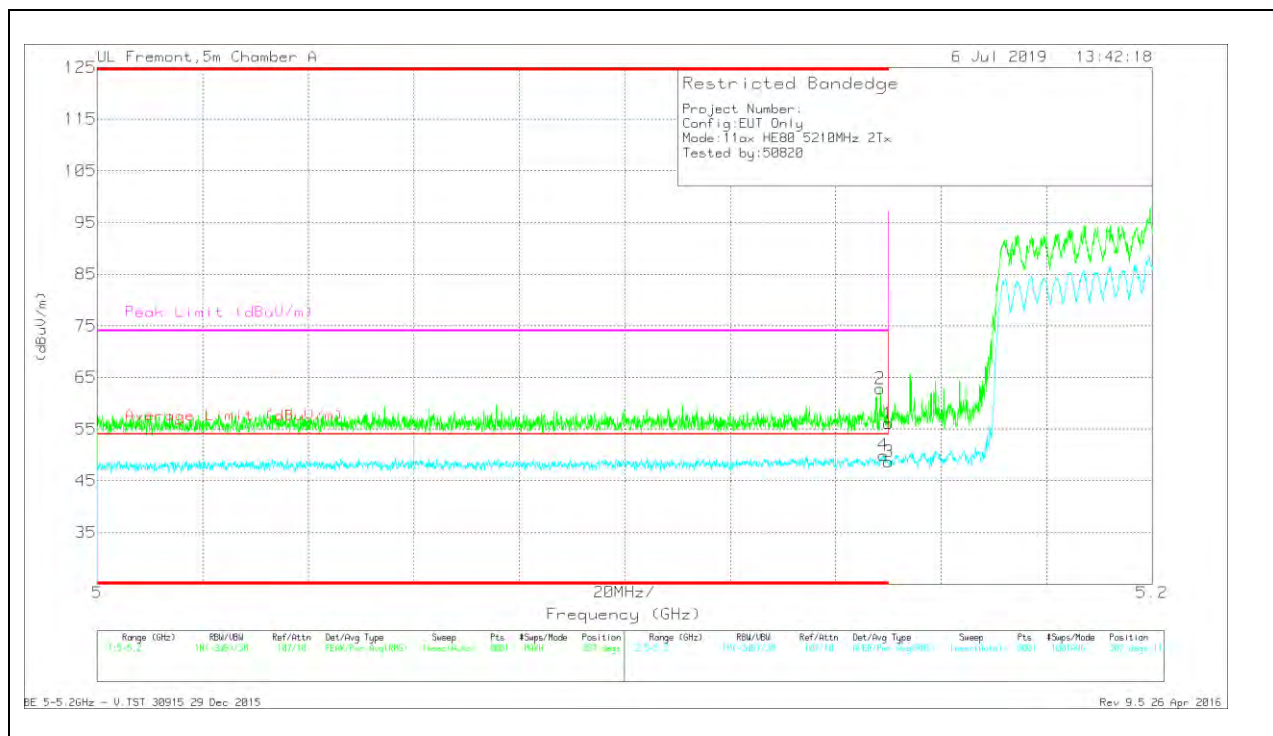
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.148	46.32	Pk	34.5	-18	0	62.82	-	-	74	-11.18	307	114	V
4	* 5.149	33.45	RMS	34.5	-18	0.1	50.05	54	-3.95	-	-	307	114	V
1	5.15	39.5	Pk	34.6	-18	0	56.1	-	-	74	-17.9	307	114	V
3	5.15	32.11	RMS	34.6	-18	0.1	48.81	54	-5.19	-	-	307	114	V

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

Pk - Peak detector

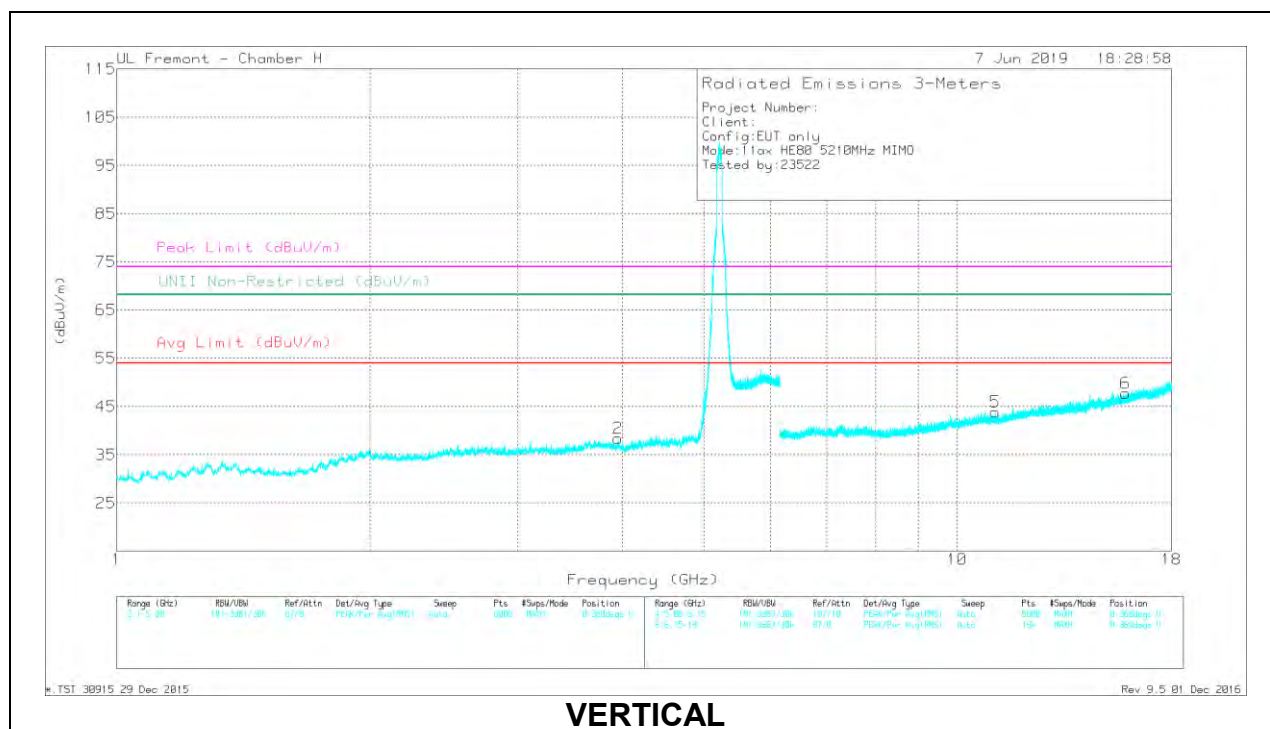
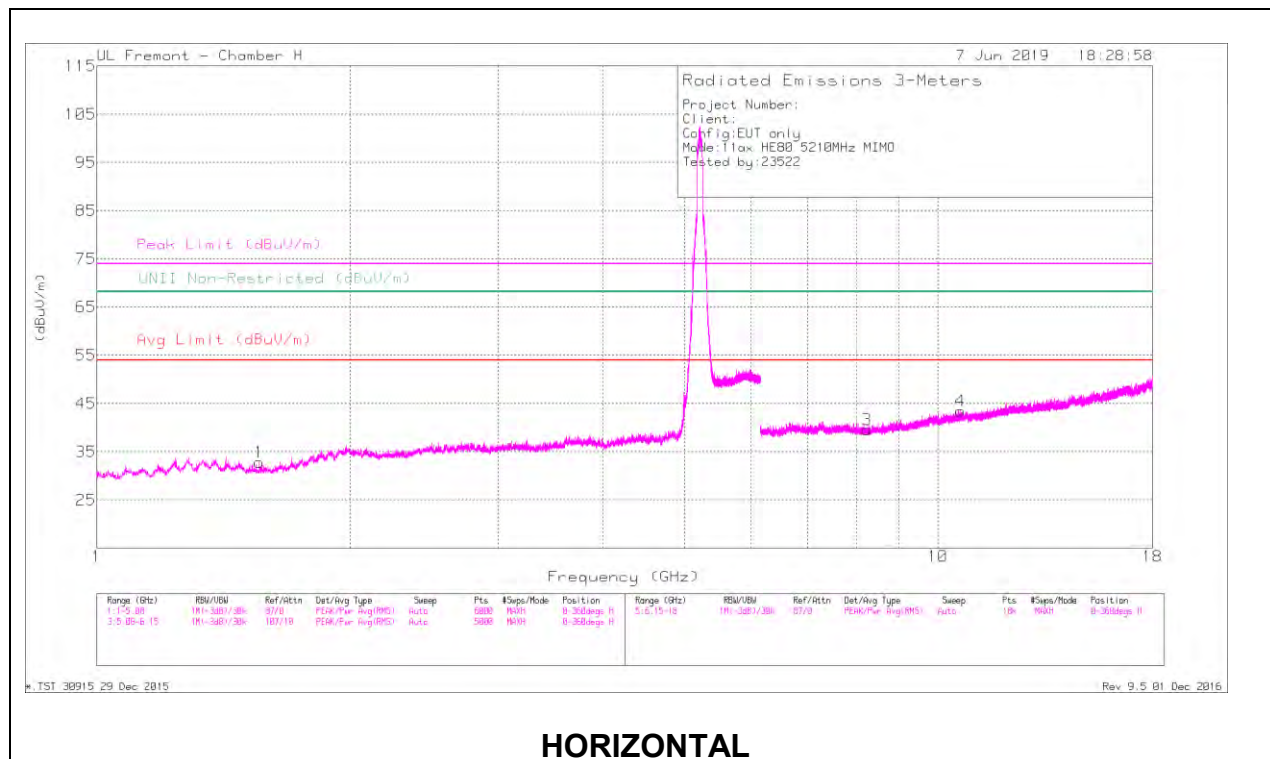
RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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	* 1.559	43.62	PK-U	28.1	-32.6	0	39.12	-	-	74	-34.88	-	-	350	105	H
	* 1.561	32.18	ADR	28	-32.5	0.1	27.78	54	-26.22	-	-	-	-	350	105	H
2	* 3.948	42.45	PK-U	33.3	-30.7	0	45.05	-	-	74	-28.95	-	-	324	169	V
	* 3.951	30.69	ADR	33.3	-30.7	0.1	33.39	54	-20.61	-	-	-	-	324	169	V
3	* 8.238	37.6	PK-U	35.8	-26.3	0	47.1	-	-	74	-26.9	-	-	273	235	H
	* 8.237	26.29	ADR	35.8	-26.3	0.1	35.89	54	-18.11	-	-	-	-	273	235	H
4	* 10.648	35.87	PK-U	37.7	-23.8	0	49.77	-	-	74	-24.23	-	-	241	275	H
	* 10.648	24.64	ADR	37.7	-23.8	0.1	38.64	54	-15.36	-	-	-	-	241	275	H
6	* 15.872	35.22	PK-U	40.7	-21.7	0	54.22	-	-	74	-19.78	-	-	32	344	V
	* 15.87	24.28	ADR	40.7	-21.7	0.1	43.38	54	-10.62	-	-	-	-	32	344	V
5	* 11.115	35.7	PK-U	37.9	-23.5	0	50.1	-	-	74	-23.9	-	-	156	384	V
	* 11.115	24.72	ADR	37.8	-23.5	0.1	39.12	54	-14.88	-	-	-	-	156	384	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

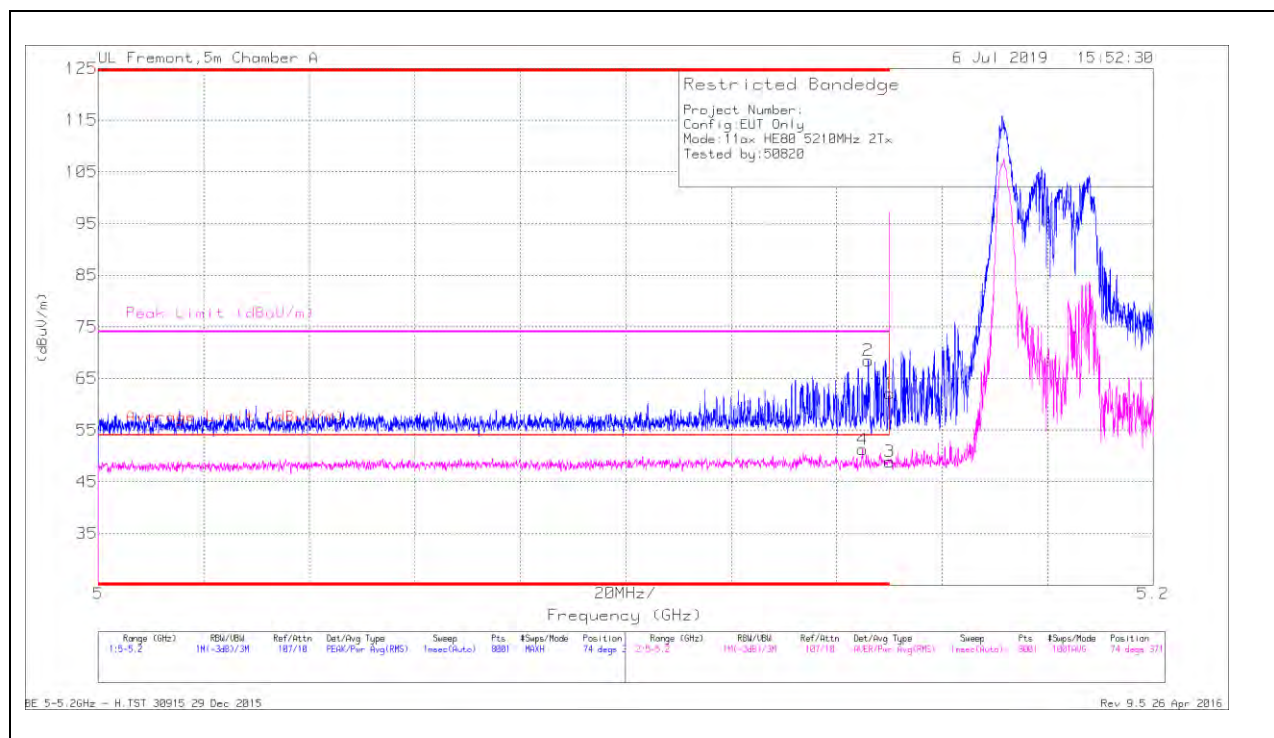
*.TST 30915 29 Dec 2015

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2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ctrl/Filt/P ad (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	* 5.146	51.99	Pk	34.5	-18	0	68.49	-	-	74	-5.51	74	371	H
4	* 5.145	34.73	RMS	34.5	-18	0	51.23	54	-2.77	-	-	74	371	H
1	5.15	45.52	PK	34.6	-18	0	62.12	-	-	74	-11.88	74	371	H
3	5.15	32.29	RMS	34.6	-18	0	48.89	54	-5.11	-	-	74	371	H

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

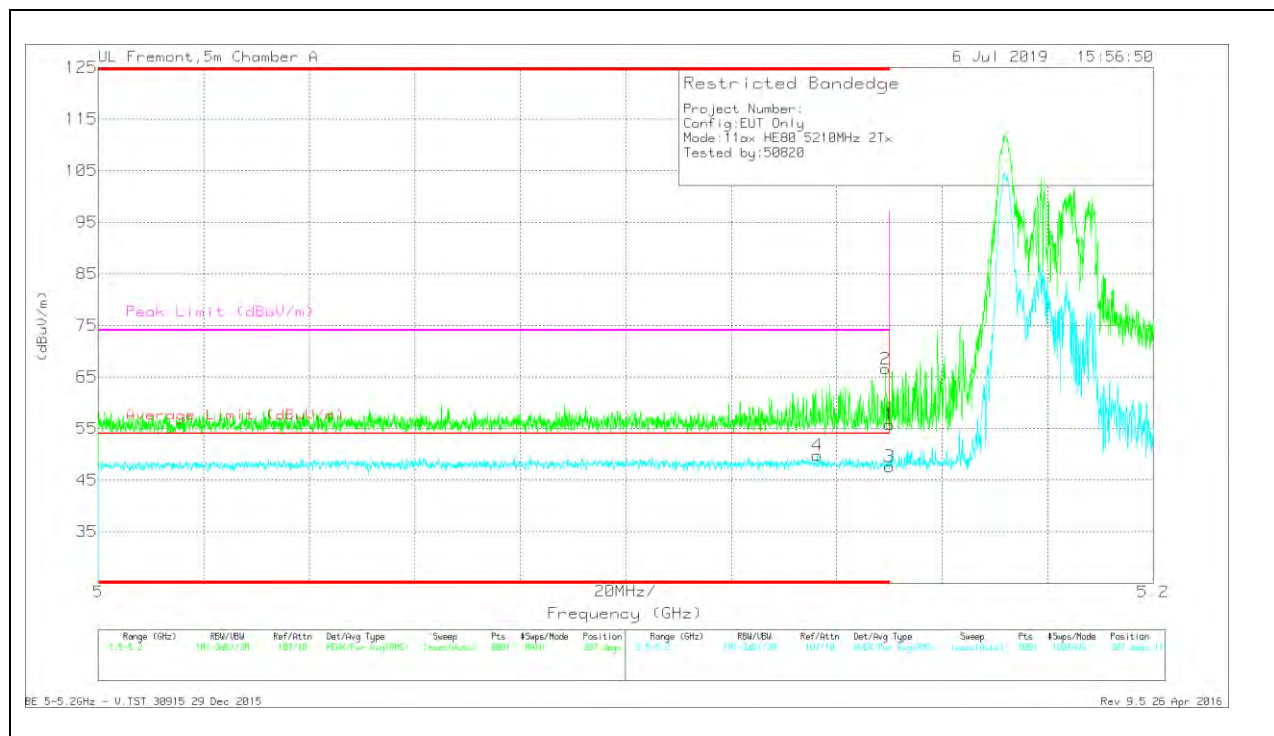
Pk - Peak detector

RMS - RMS detection

BE 5-5.2GHz - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.149	50.08	Pk	34.5	-18	0	66.58	-	-	74	-7.42	307	115	V
4	* 5.136	33.21	RMS	34.6	-18	0	49.81	54	-4.19	-	-	307	115	V
1	5.15	39.14	Pk	34.6	-18	0	55.74	-	-	74	-18.26	307	115	V
3	5.15	31.01	RMS	34.6	-18	0	47.61	54	-6.39	-	-	307	115	V

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

Pk - Peak detector

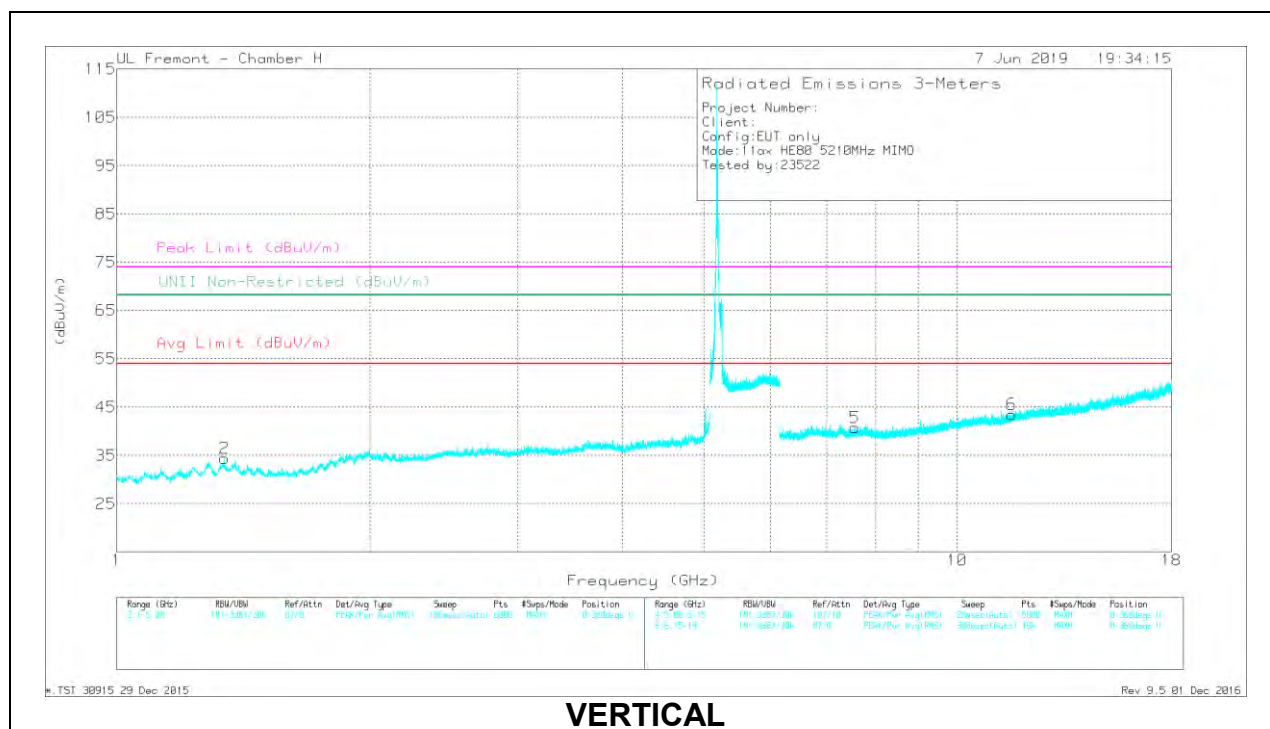
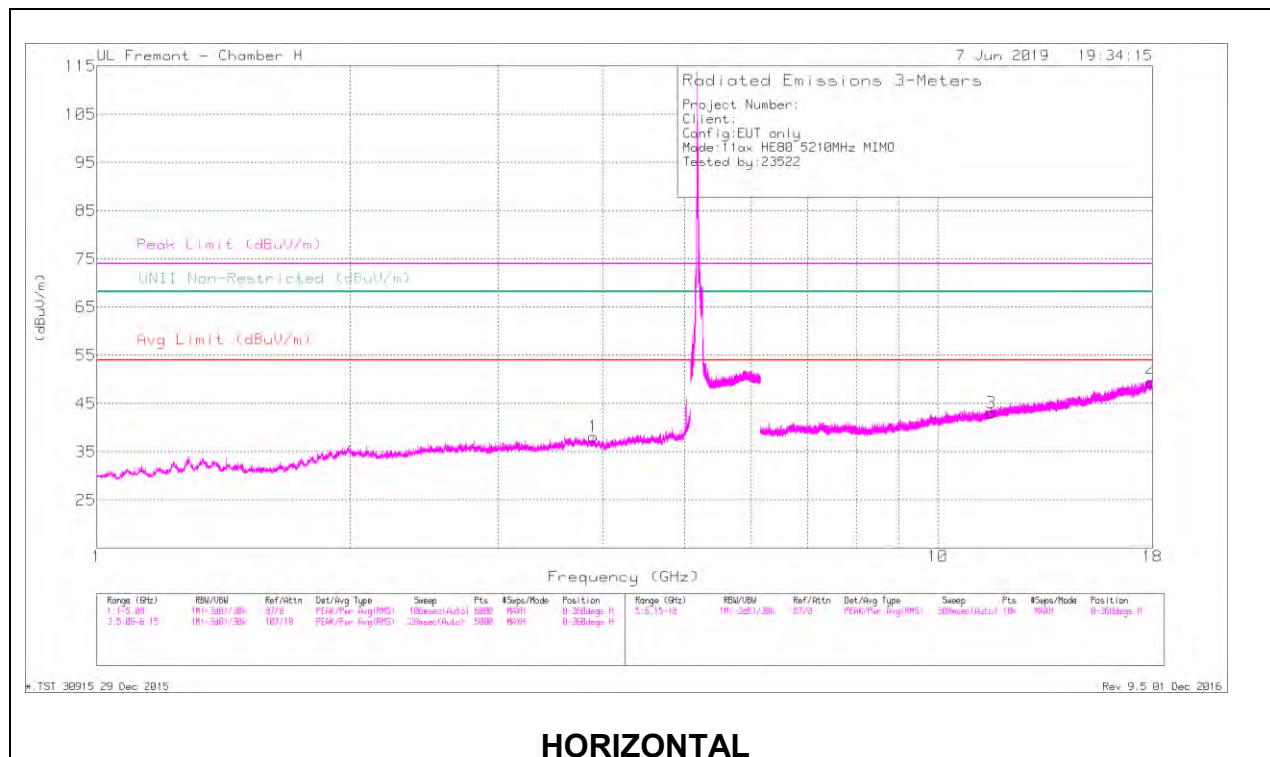
RMS - RMS detection

BE 5-5.2GHz - V.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.894	41.7	PK-U	33.4	-30.6	0	44.5	-	-	74	-29.5	-	-	28	128	H
	* 3.898	30.55	ADR	33.4	-30.6	0	33.35	54	-20.65	-	-	-	-	28	128	H
2	* 1.343	44.56	PK-U	29.4	-33	0	40.96	-	-	74	-33.04	-	-	146	180	V
	* 1.341	33.05	ADR	29.4	-32.9	0	29.55	54	-24.45	-	-	-	-	146	180	V
3	* 11.572	35.4	PK-U	38.4	-23.6	0	50.2	-	-	74	-23.8	-	-	204	226	H
	* 11.573	24.5	ADR	38.3	-23.6	0	39.2	54	-14.8	-	-	-	-	204	226	H
4	* 17.949	35.09	PK-U	42.1	-20.4	0	56.79	-	-	74	-17.21	-	-	259	292	H
	* 17.949	23.97	ADR	42.1	-20.4	0	45.67	54	-8.33	-	-	-	-	259	292	H
5	* 7.567	39.17	PK-U	36.6	-27.5	0	48.27	-	-	74	-25.73	-	-	325	342	V
	* 7.567	27.09	ADR	36.6	-27.5	0	36.19	54	-17.81	-	-	-	-	325	342	V
6	* 11.626	35.56	PK-U	38.4	-23.1	0	50.86	-	-	74	-23.14	-	-	347	375	V
	* 11.626	24.2	ADR	38.4	-23.1	0	39.5	54	-14.5	-	-	-	-	347	375	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

*.TST 30915 29 Dec 2015

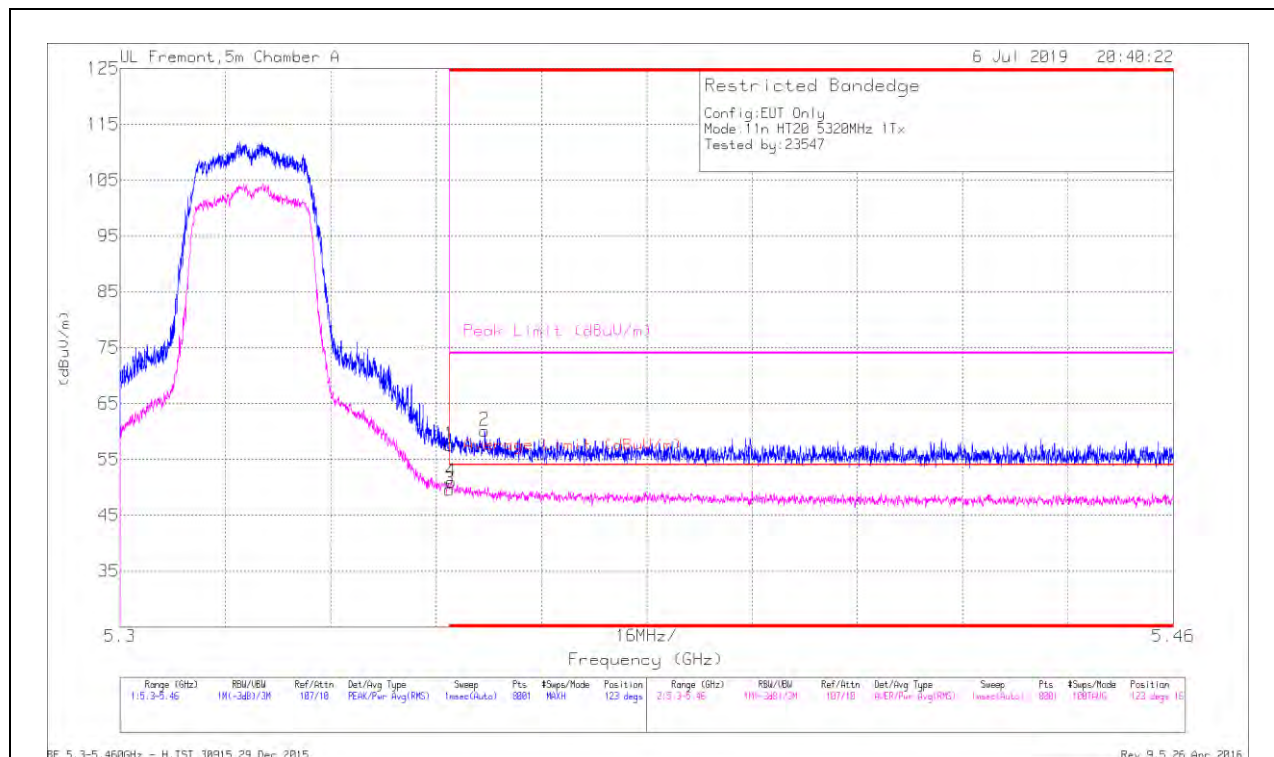
Rev 9.5 01 Dec 2016

1.1.7. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 6 MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



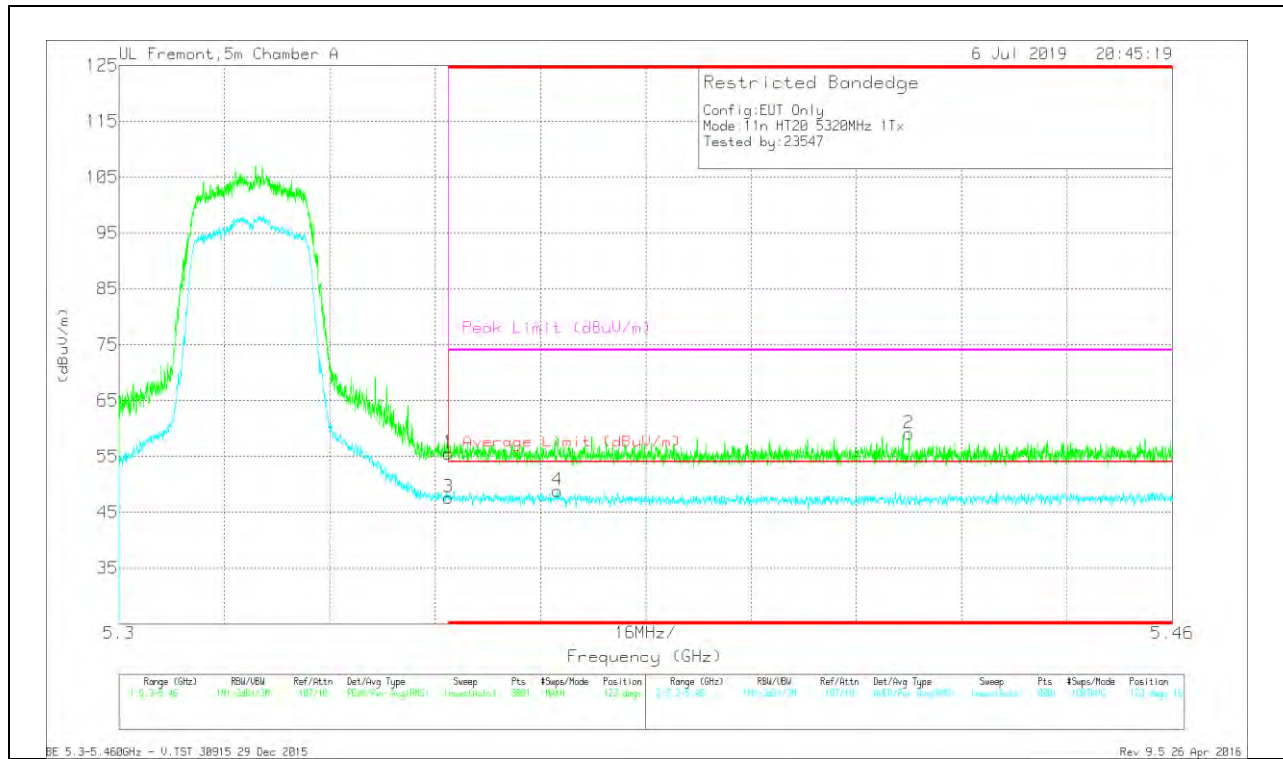
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.35	Pk	35	-17.7	0	57.65	-	-	74	-16.35	123	161	H
2	* 5.355	42.87	Pk	35	-17.7	0	60.17	-	-	74	-13.83	123	161	H
3	* 5.35	32.32	RMS	35	-17.7	0	49.62	54	-4.38	-	-	123	161	H
4	* 5.35	33.72	RMS	35	-17.7	0	51.02	54	-2.98	-	-	123	161	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/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	* 5.35	38.23	Pk	35	-17.7	0	55.53	-	-	74	-18.47	123	161	V
2	* 5.42	41.81	Pk	34.9	-17.6	0	59.11	-	-	74	-14.89	123	161	V
3	* 5.35	30.36	RMS	35	-17.7	0	47.66	54	-6.34	-	-	123	161	V
4	* 5.367	31.57	RMS	35	-17.7	0	48.87	54	-5.13	-	-	123	161	V

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

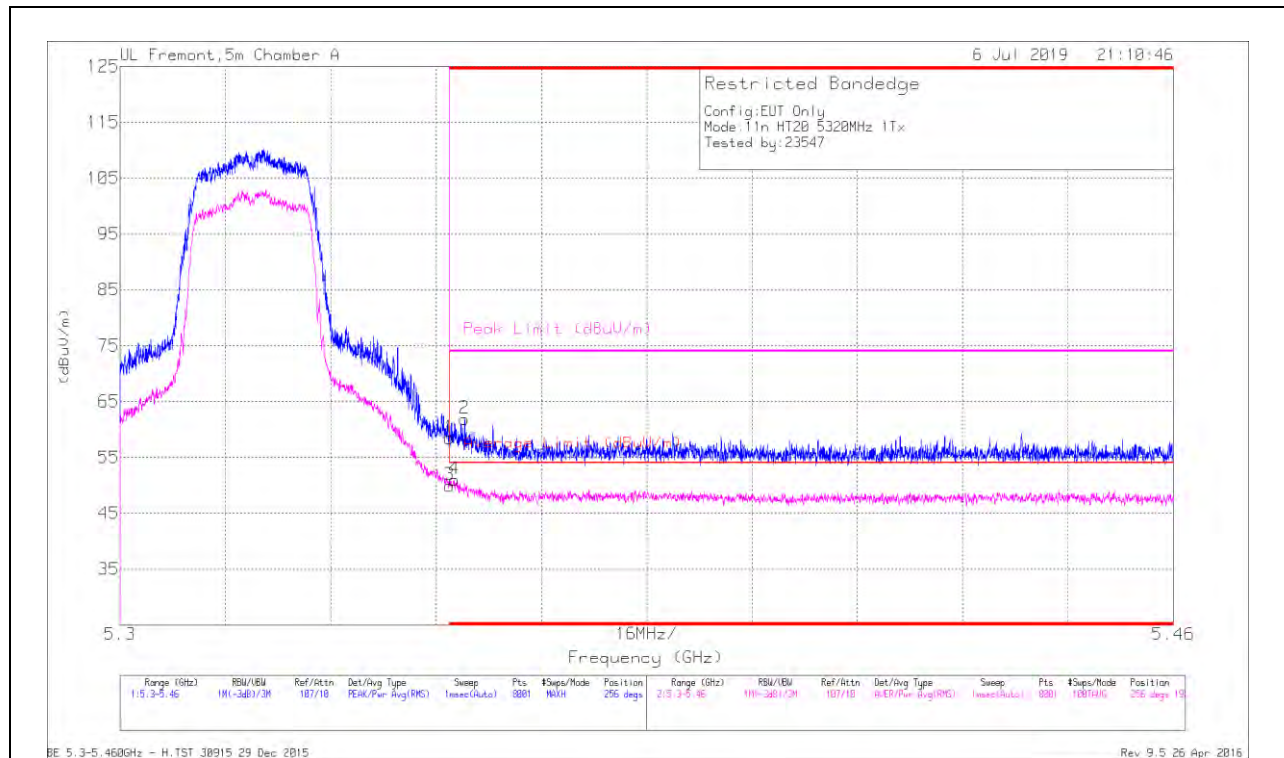
Pk - Peak detector

RMS - RMS detection

1TX Antenna 5 MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



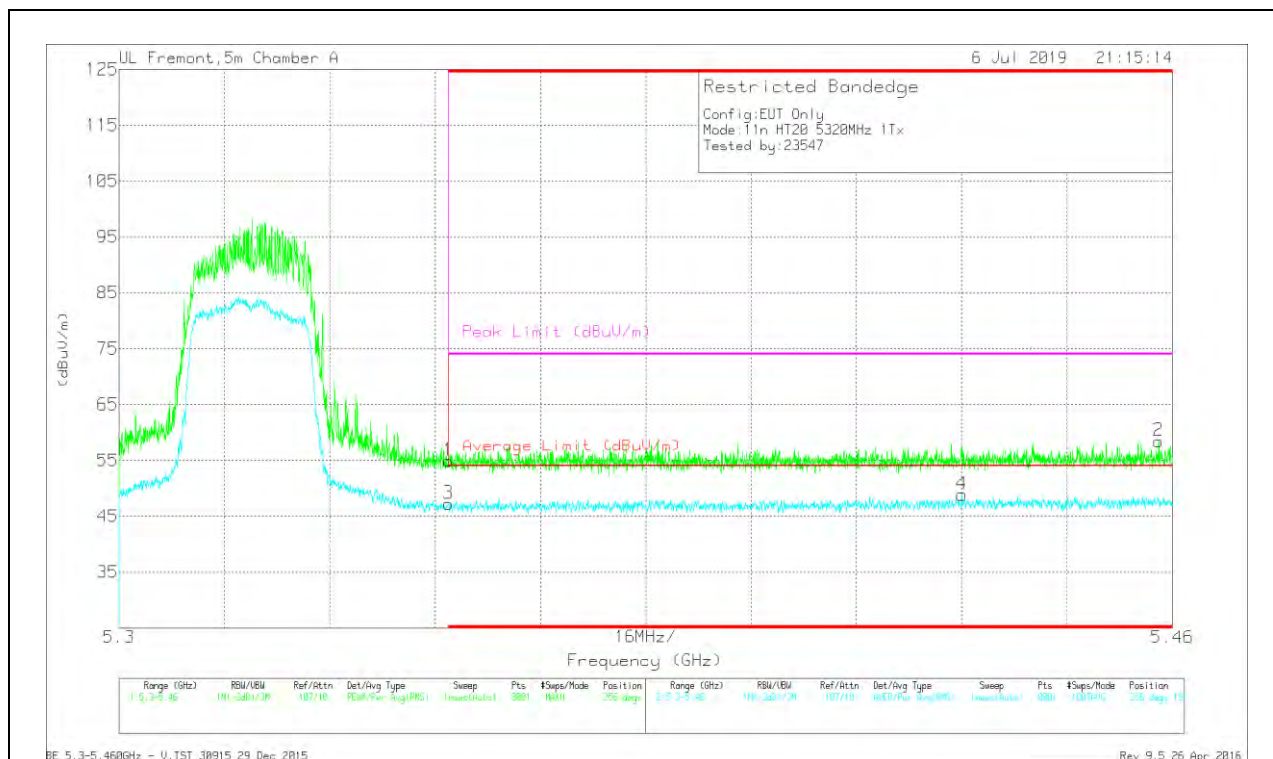
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.2	Pk	35	-17.7	0	58.5	-	-	74	-15.5	256	198	H
2	* 5.352	44.6	Pk	35	-17.7	0	61.9	-	-	74	-12.1	256	198	H
3	* 5.35	32.67	RMS	35	-17.7	0	49.97	54	-4.03	-	-	256	198	H
4	* 5.351	33.76	RMS	35	-17.7	0	51.06	54	-2.94	-	-	256	198	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.35	37.61	Pk	35	-17.7	0	54.91	-	-	74	-19.09	256	198	V
2	* 5.458	40.98	Pk	35	-17.5	0	58.48	-	-	74	-15.52	256	198	V
3	* 5.35	29.97	RMS	35	-17.7	0	47.27	54	-6.73	-	-	256	198	V
4	* 5.428	31.6	RMS	34.9	-17.6	0	48.9	54	-5.1	-	-	256	198	V

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

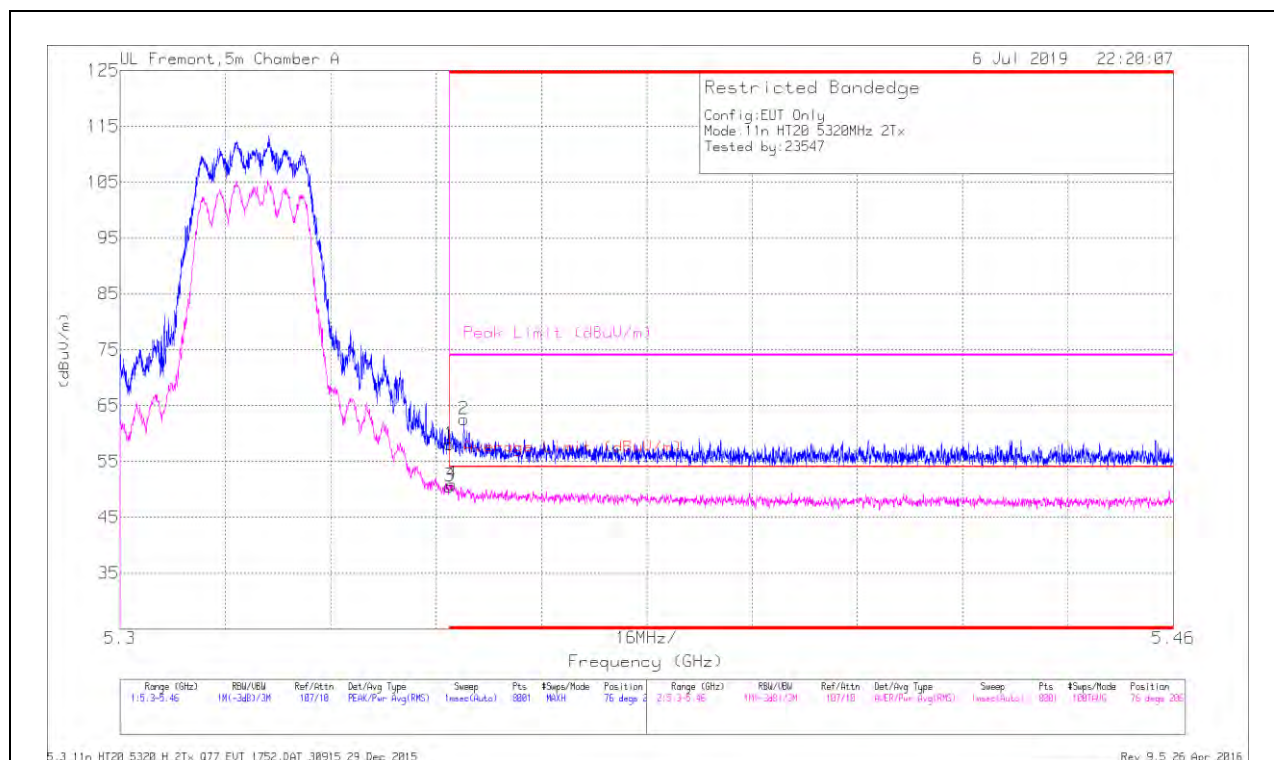
Pk - Peak detector

RMS - RMS detection

2TX Antenna 6 + Antenna 5 CDD MODE

BANDEDGE (HIGH CHANNEL)

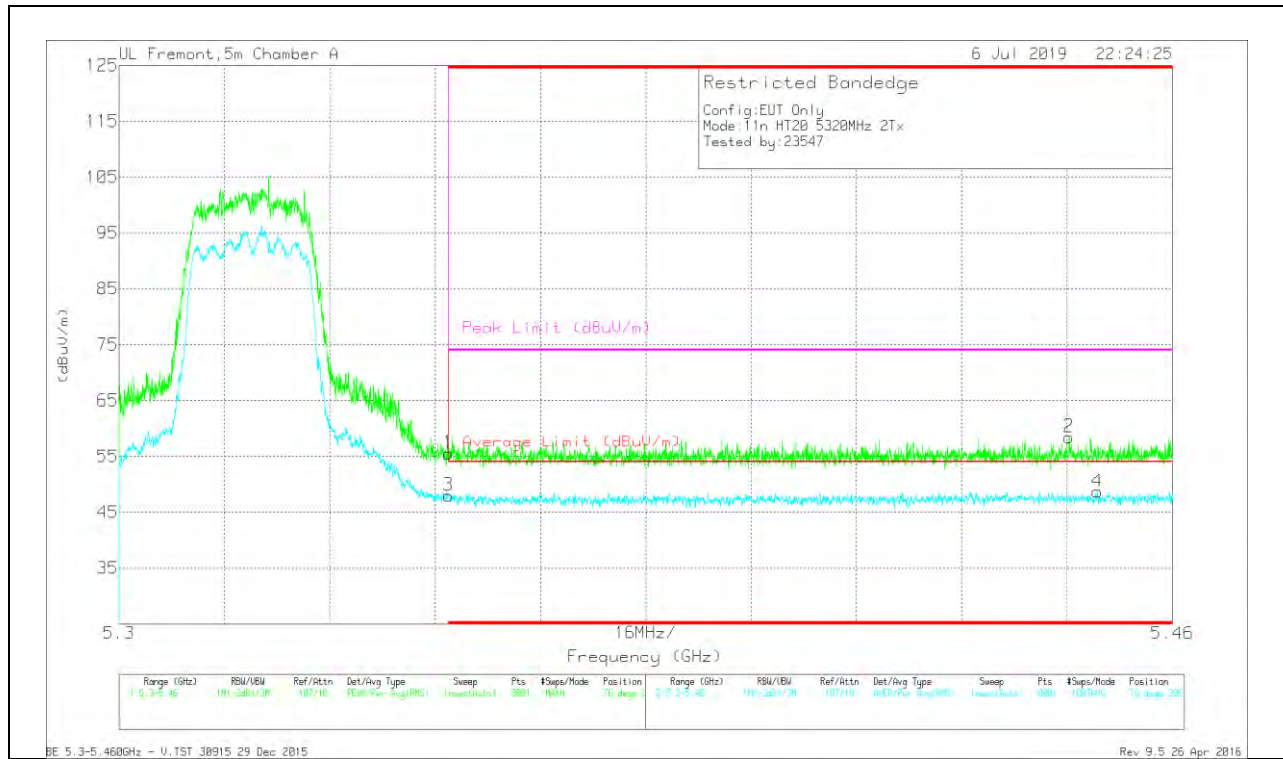
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.35	40.76	Pk	35	-17.7	0	58.06	-	-	74	-15.94	76	206	H
2	* 5.352	45.24	Pk	35	-17.7	0	62.54	-	-	74	-11.46	76	206	H
3	* 5.35	33.25	RMS	35	-17.7	0	50.55	54	-3.45	-	-	76	206	H
4	* 5.35	33.64	RMS	35	-17.7	0	50.94	54	-3.06	-	-	76	206	H

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 5.35	38.24	Pk	35	-17.7	0	55.54	-	-	74	-18.46	76	206	V
2	* 5.444	41.05	Pk	34.9	-17.5	0	58.45	-	-	74	-15.55	76	206	V
3	* 5.35	30.69	RMS	35	-17.7	0	47.99	54	-6.01	-	-	76	206	V
4	* 5.449	31.29	RMS	34.9	-17.5	0	48.69	54	-5.31	-	-	76	206	V

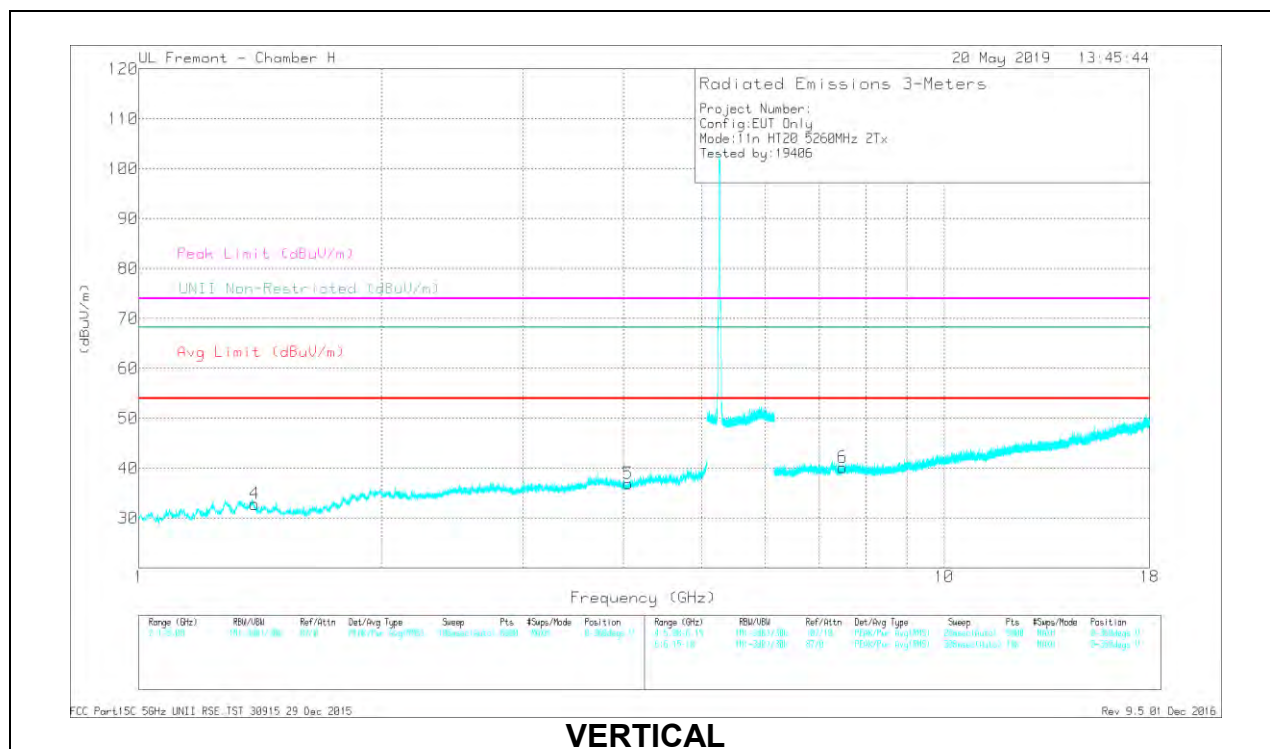
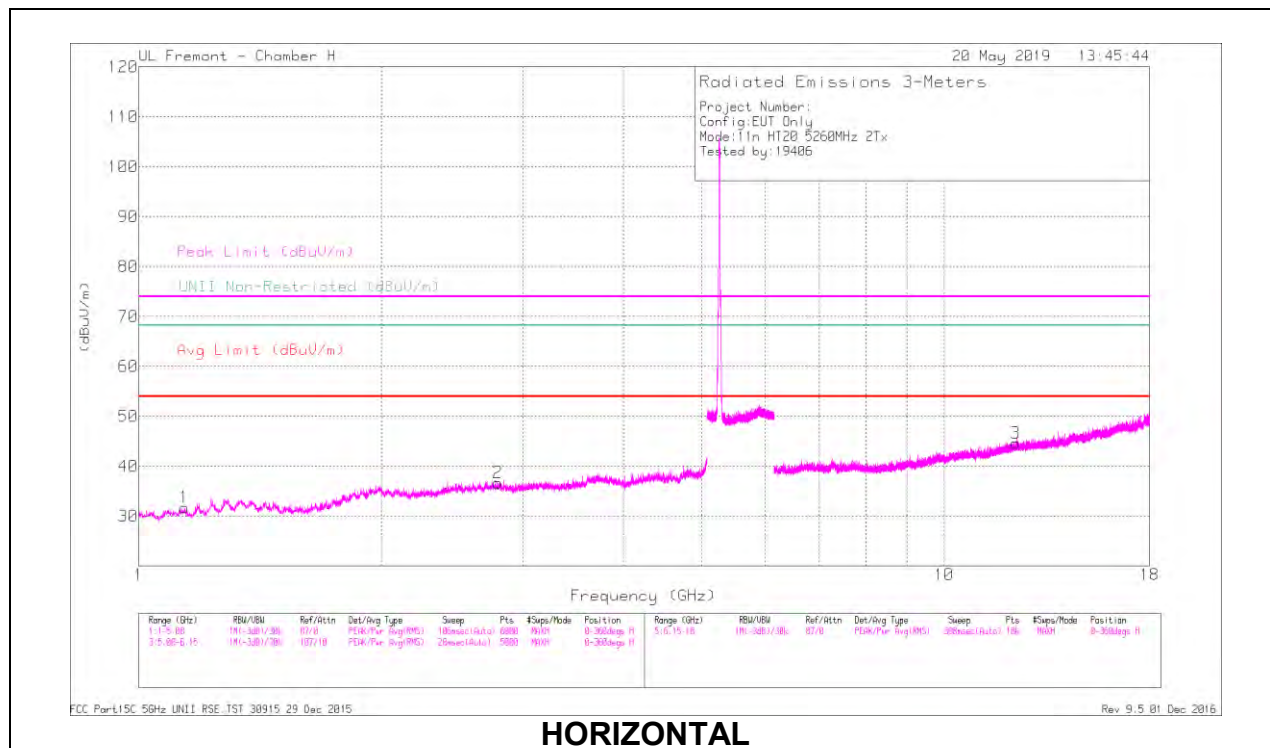
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/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	* 1.139	44.99	PK-U	27.6	-33.2	0	39.39	-	-	74	-34.61	-	-	109	122	H
	* 1.138	33.22	ADR	27.6	-33.2	0	27.62	54	-26.38	-	-	-	-	109	122	H
2	* 2.794	43.9	PK-U	32.6	-31.8	0	44.7	-	-	74	-29.3	-	-	198	181	H
	* 2.795	31.89	ADR	32.6	-31.8	0	32.69	54	-21.31	-	-	-	-	198	181	H
4	* 1.391	44.68	PK-U	28.9	-32.9	0	40.68	-	-	74	-33.32	-	-	238	293	V
	* 1.391	32.86	ADR	28.9	-32.9	0	28.86	54	-25.14	-	-	-	-	238	293	V
5	* 4.054	41.78	PK-U	33.3	-30.7	0	44.38	-	-	74	-29.62	-	-	352	219	V
	* 4.053	30.12	ADR	33.3	-30.7	0	32.72	54	-21.28	-	-	-	-	352	219	V
3	* 12.274	36.09	PK-U	39	-23.2	0	51.89	-	-	74	-22.11	-	-	338	249	H
	* 12.273	24.73	ADR	39	-23.3	0	40.43	54	-13.57	-	-	-	-	338	249	H
6	* 7.481	38.7	PK-U	36.5	-27.5	0	47.7	-	-	74	-26.3	-	-	71	116	V
	* 7.48	27.31	ADR	36.5	-27.5	0	36.31	54	-17.69	-	-	-	-	71	116	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average