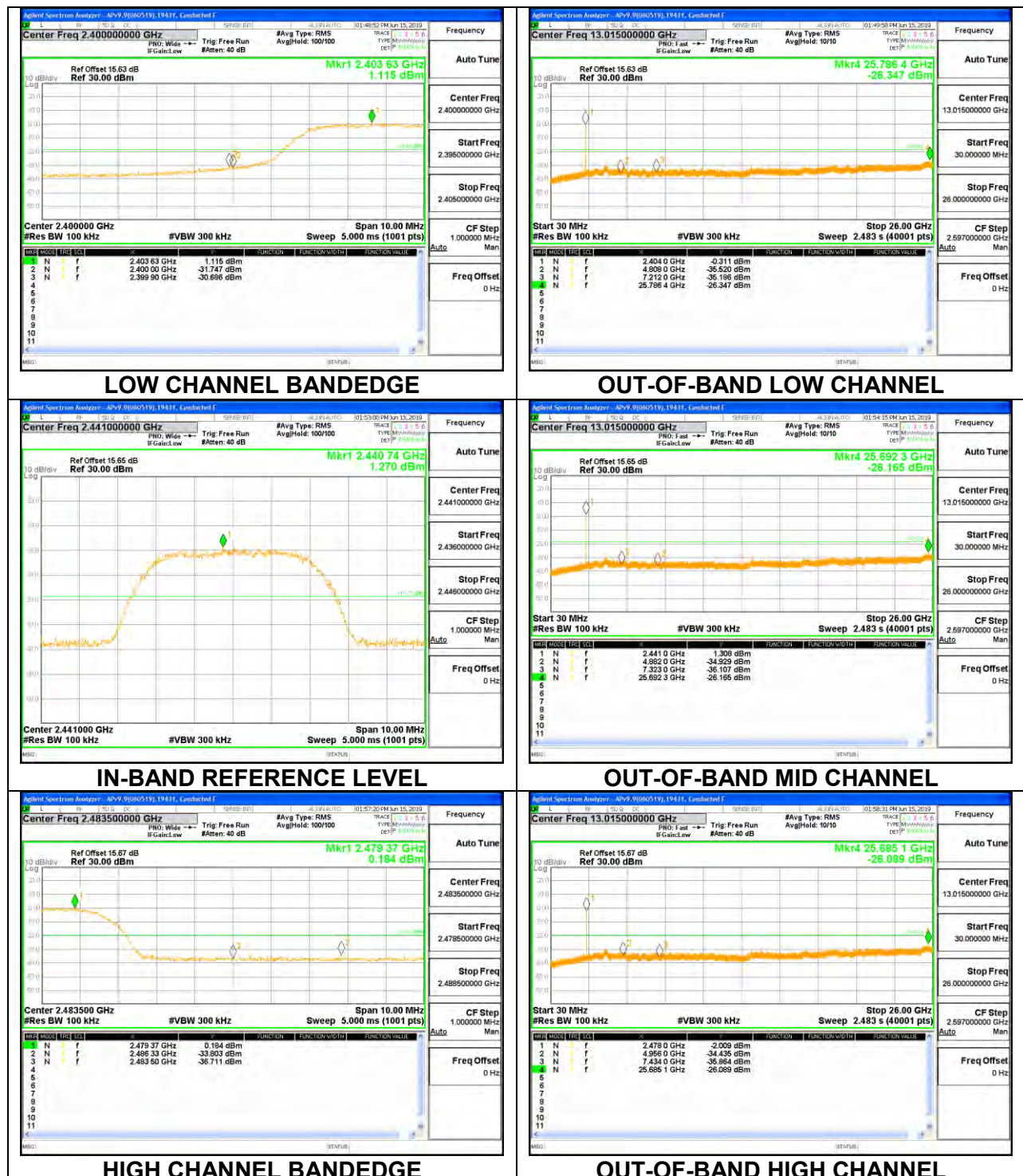


8.12.4. LOW POWER HDR (HDR8)

Antenna 4



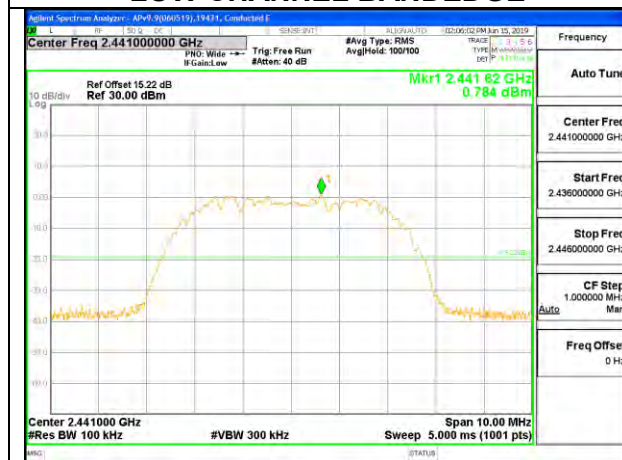
Antenna 3



LOW CHANNEL BANDEDGE



OUT-OF-BAND LOW CHANNEL



IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

8.13. BEAMFORMING CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

RSS-247 5.5

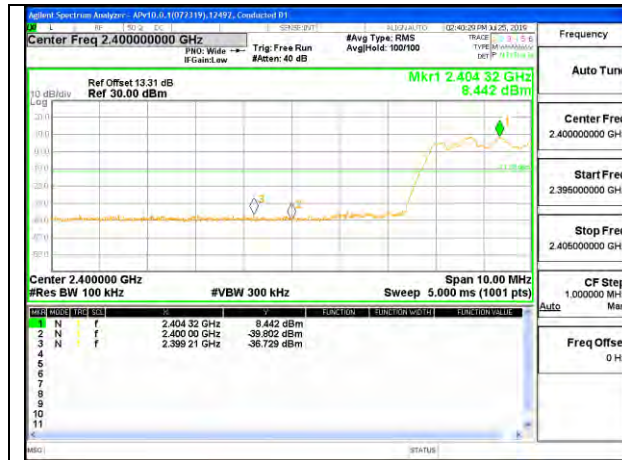
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

Note: Test procedures and setting on beamforming are same as HDR normal mode

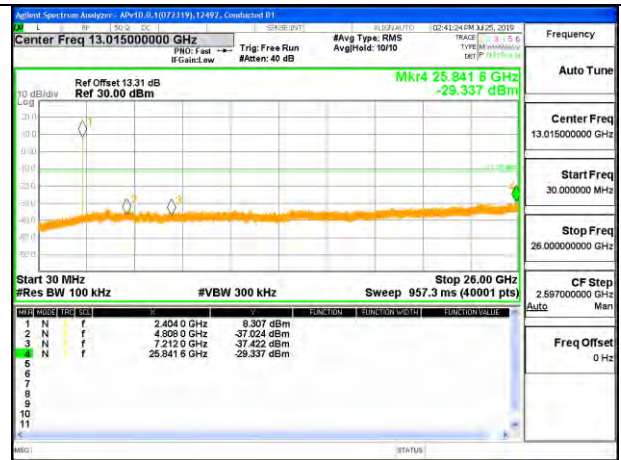
RESULTS

8.13.1. HIGH POWER HDR (HDR4)

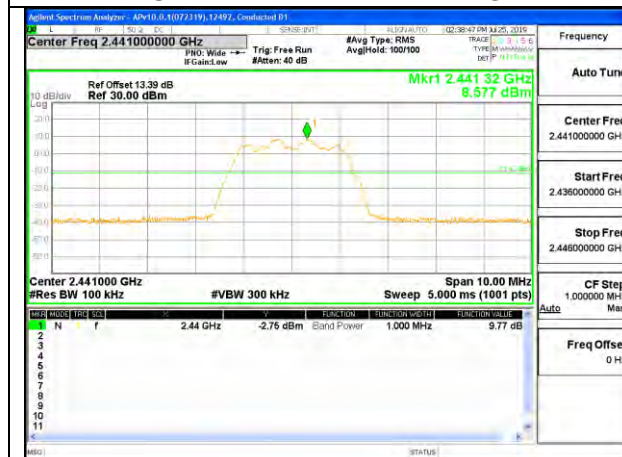
Antenna 4



LOW CHANNEL BANDEDGE



OUT-OF-BAND LOW CHANNEL



IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

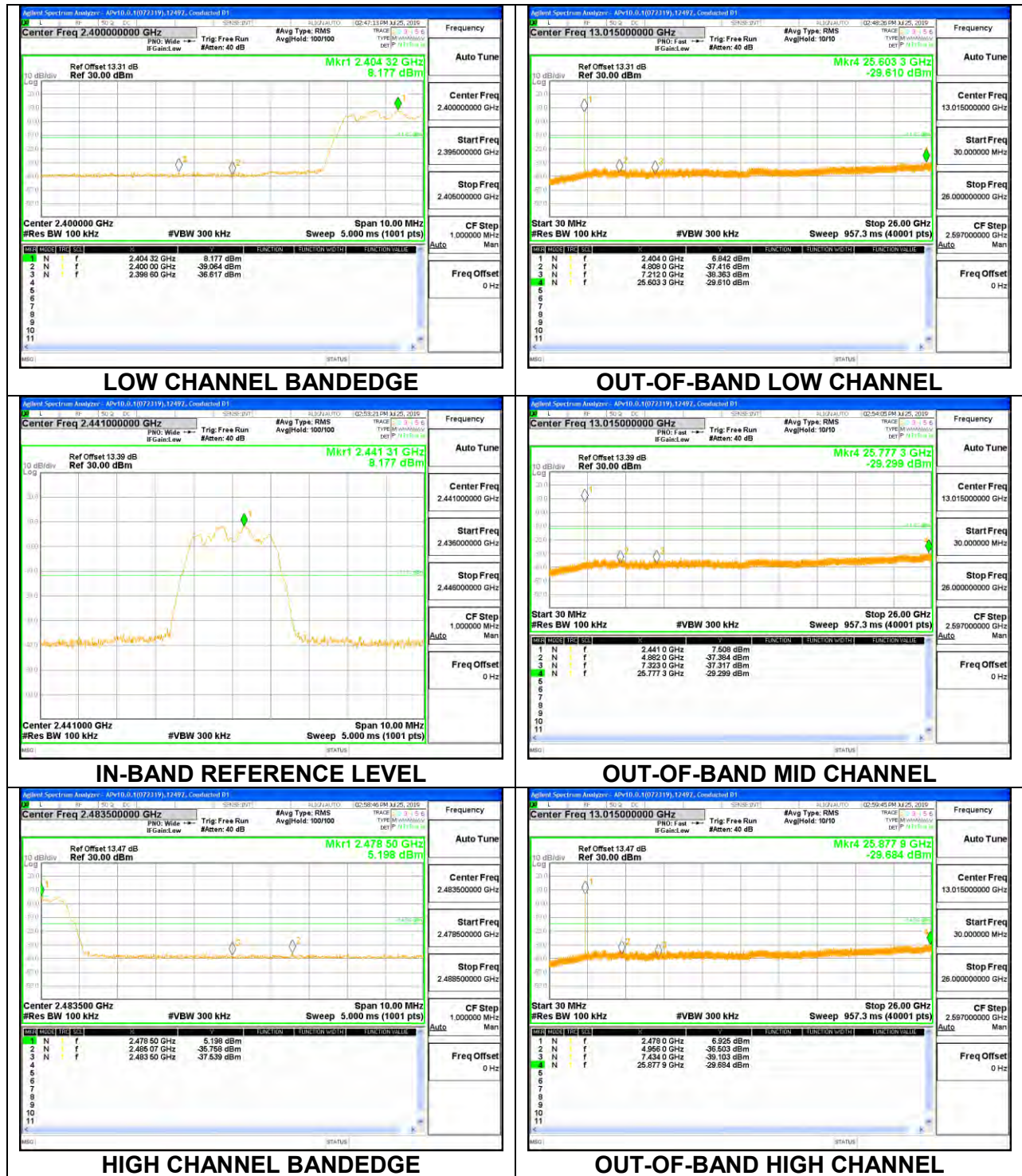


HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

Antenna 3



8.13.2. HIGH POWER HDR (HDR8)

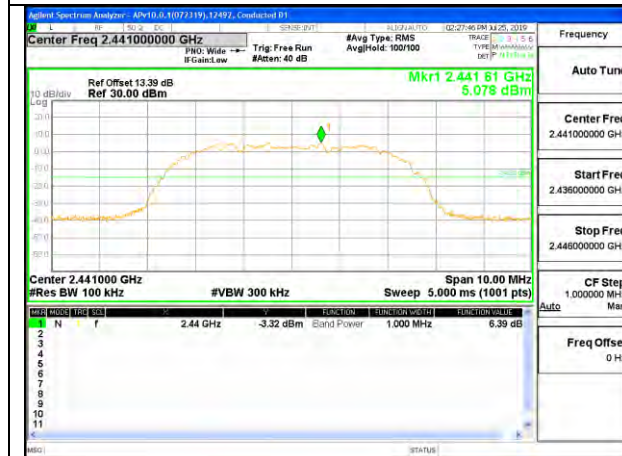
Antenna 4



LOW CHANNEL BANDEDGE



OUT-OF-BAND LOW CHANNEL



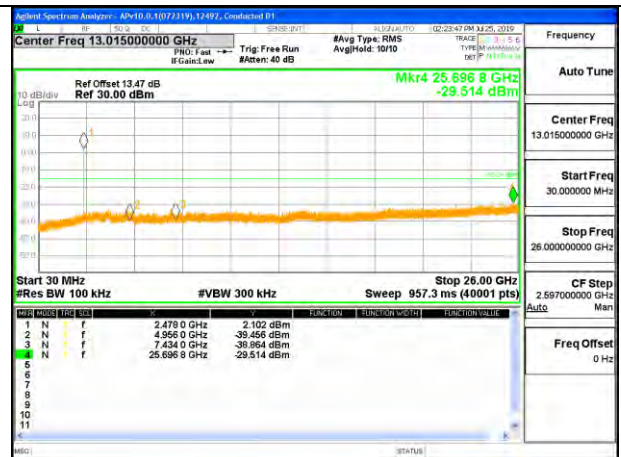
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

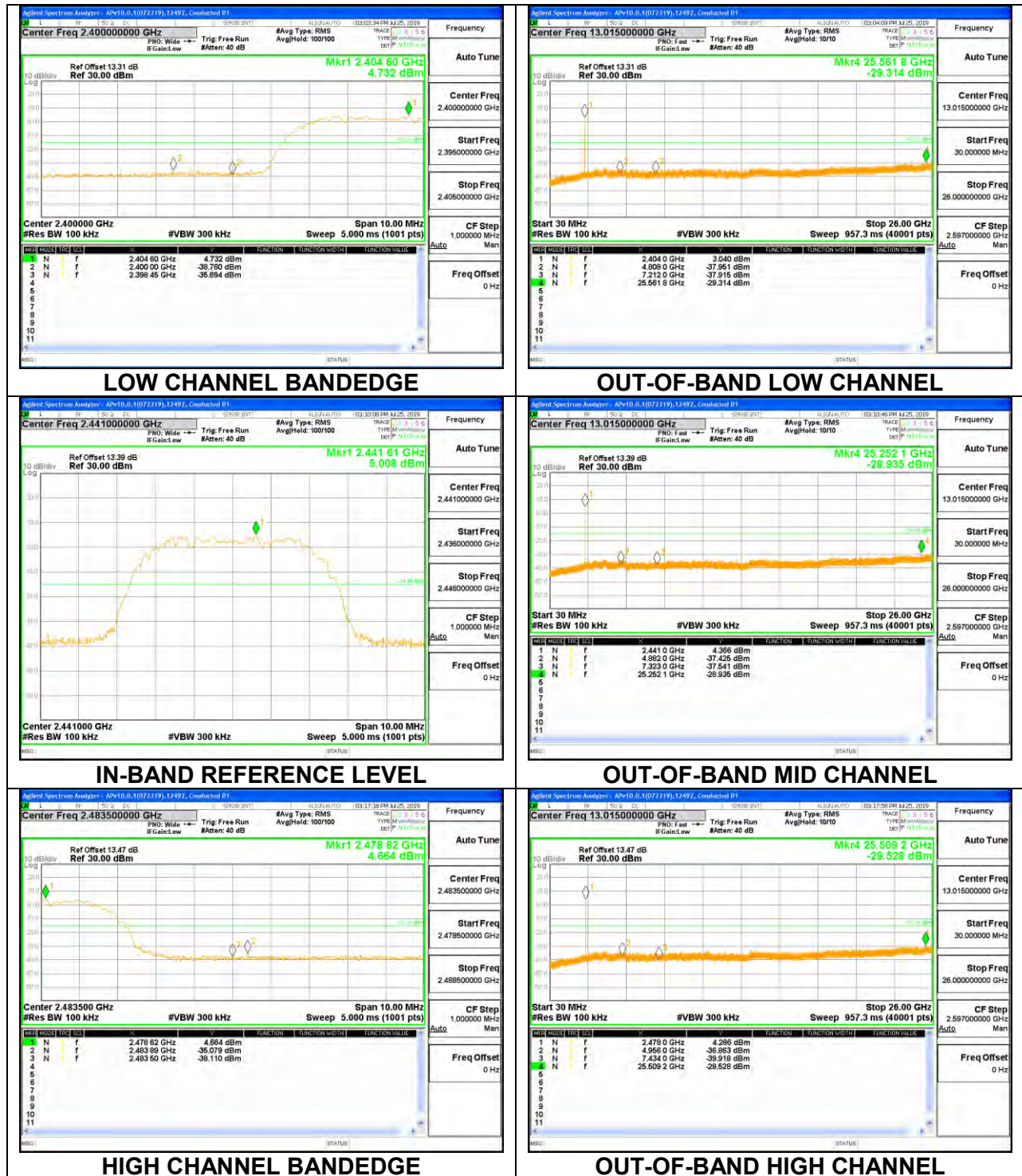


HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

Antenna 3



8.13.3. LOW POWER HDR (HDR4)

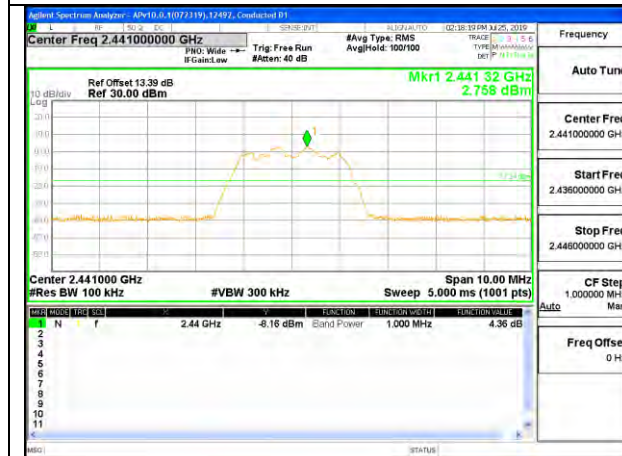
Antenna 4



LOW CHANNEL BANDEDGE



OUT-OF-BAND LOW CHANNEL



IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

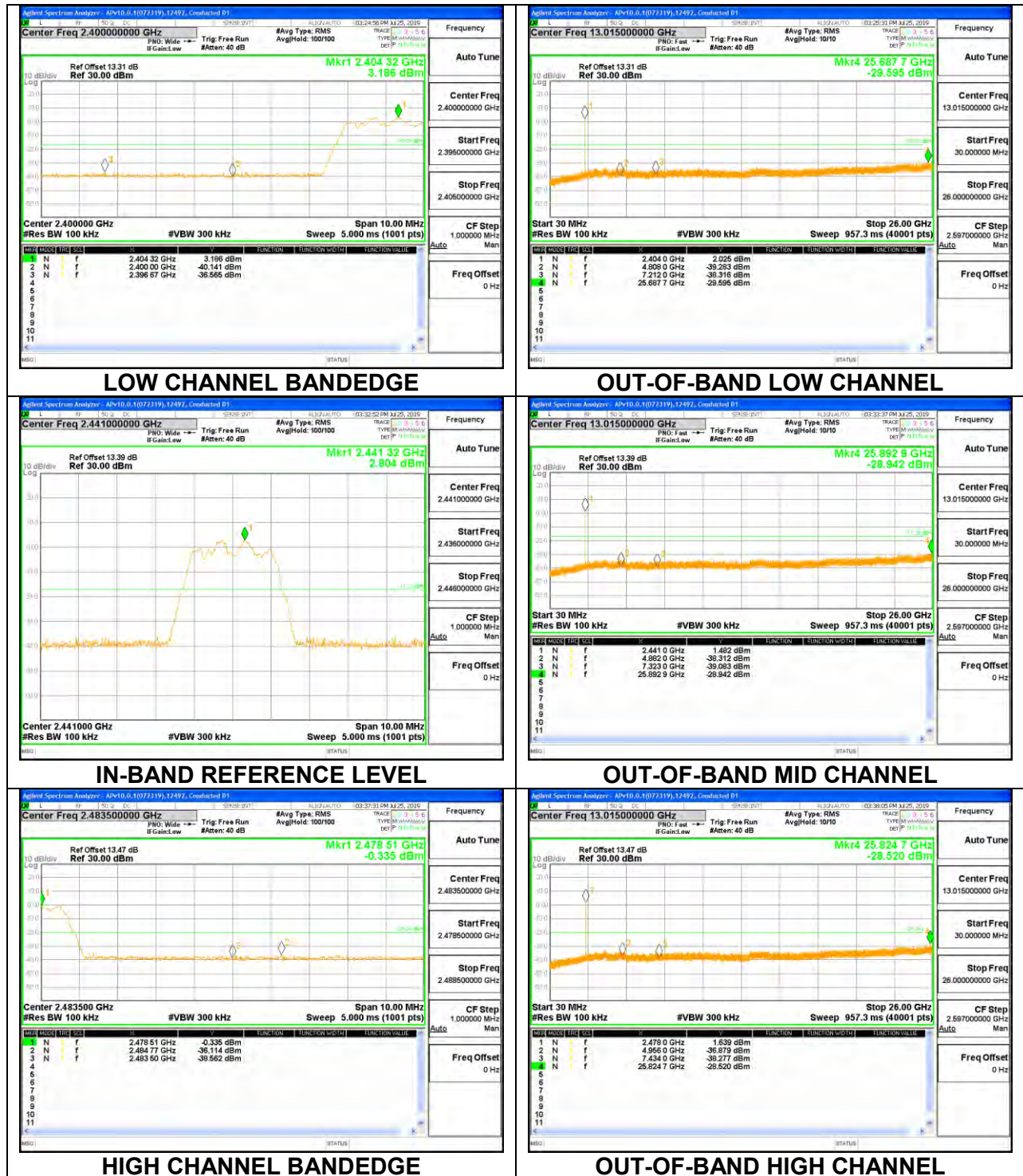


HIGH CHANNEL BANDEDGE



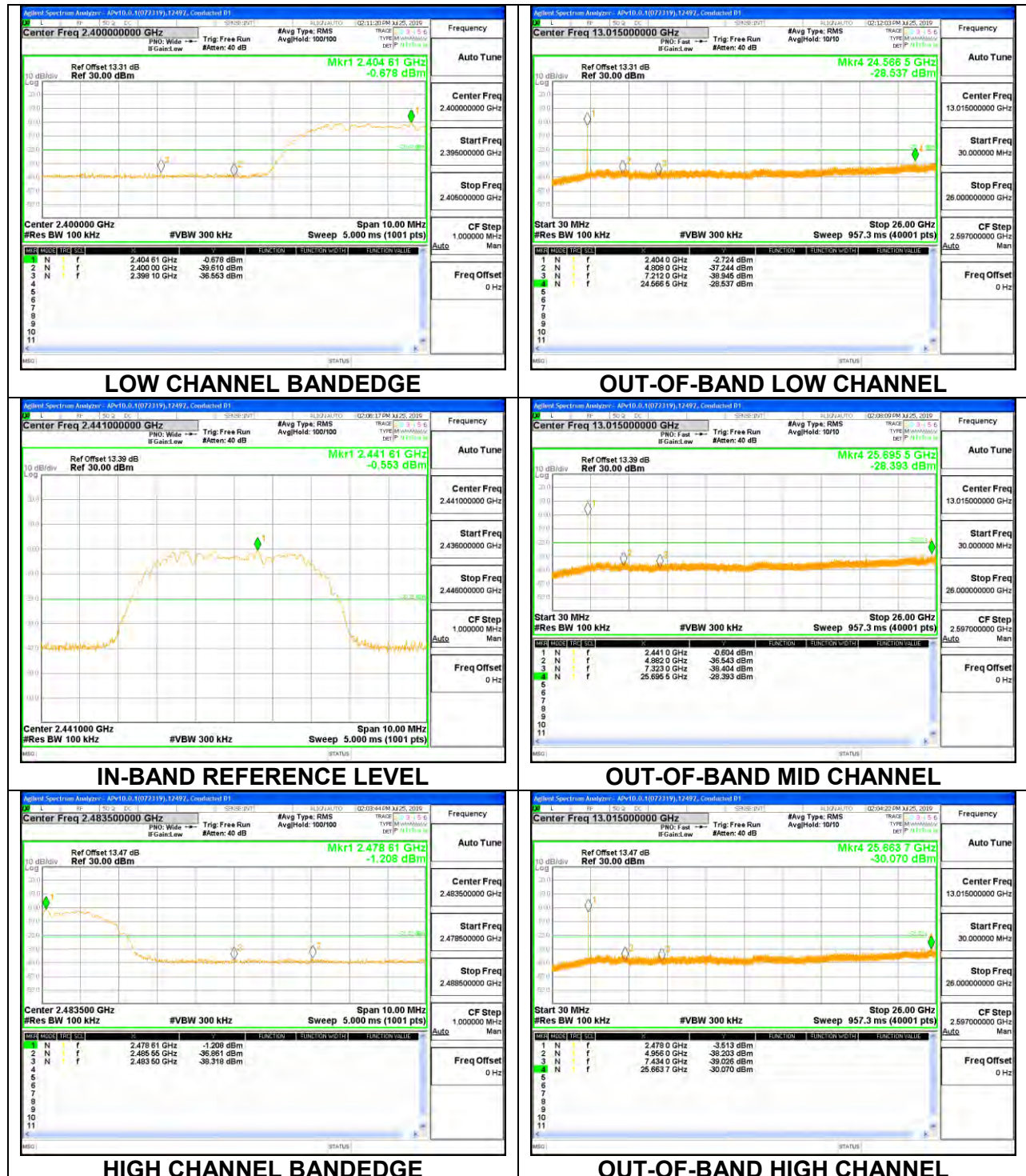
OUT-OF-BAND HIGH CHANNEL

Antenna 3

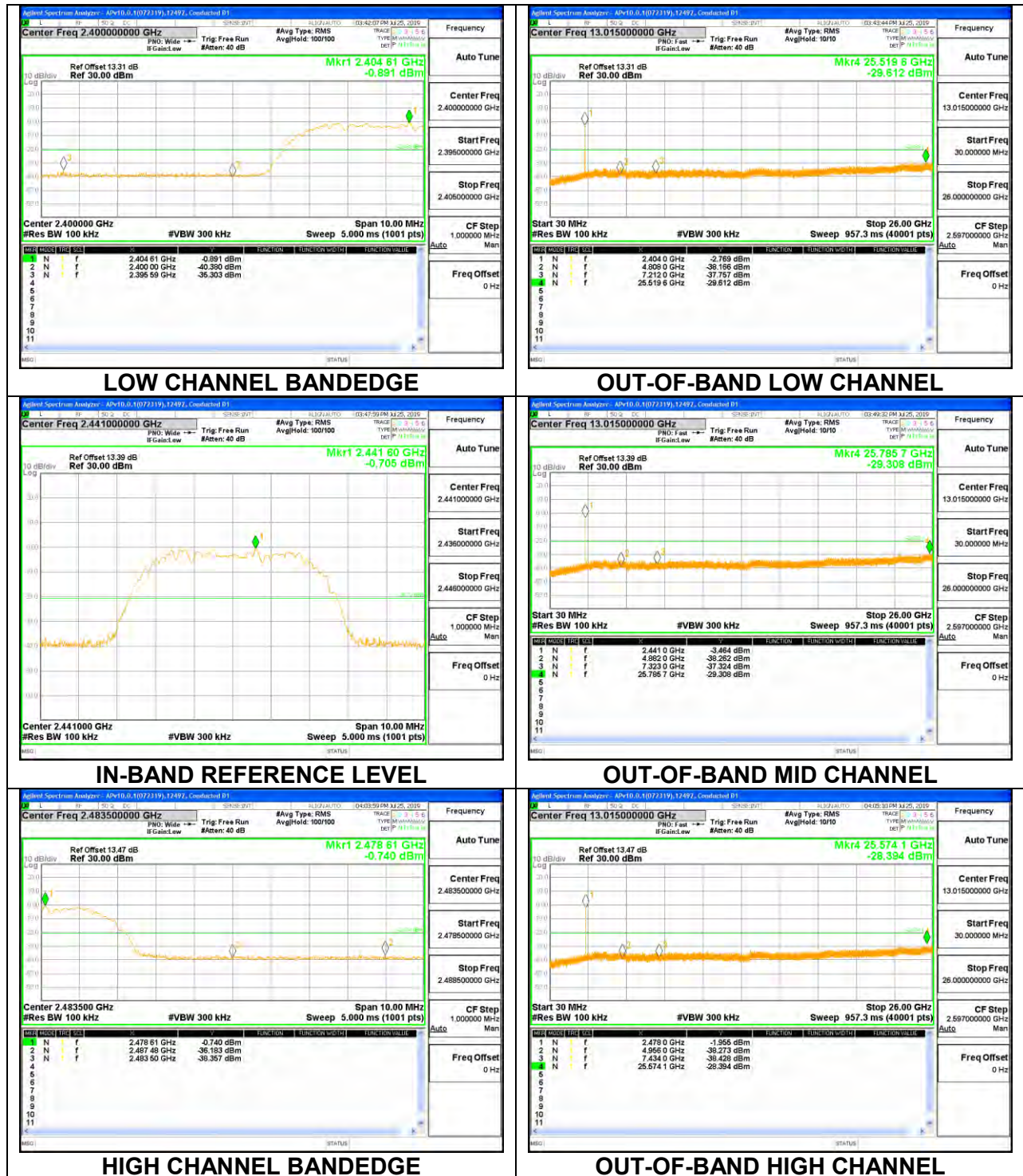


8.13.4. LOW POWER HDR (HDR8)

Antenna 4



Antenna 3



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
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 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

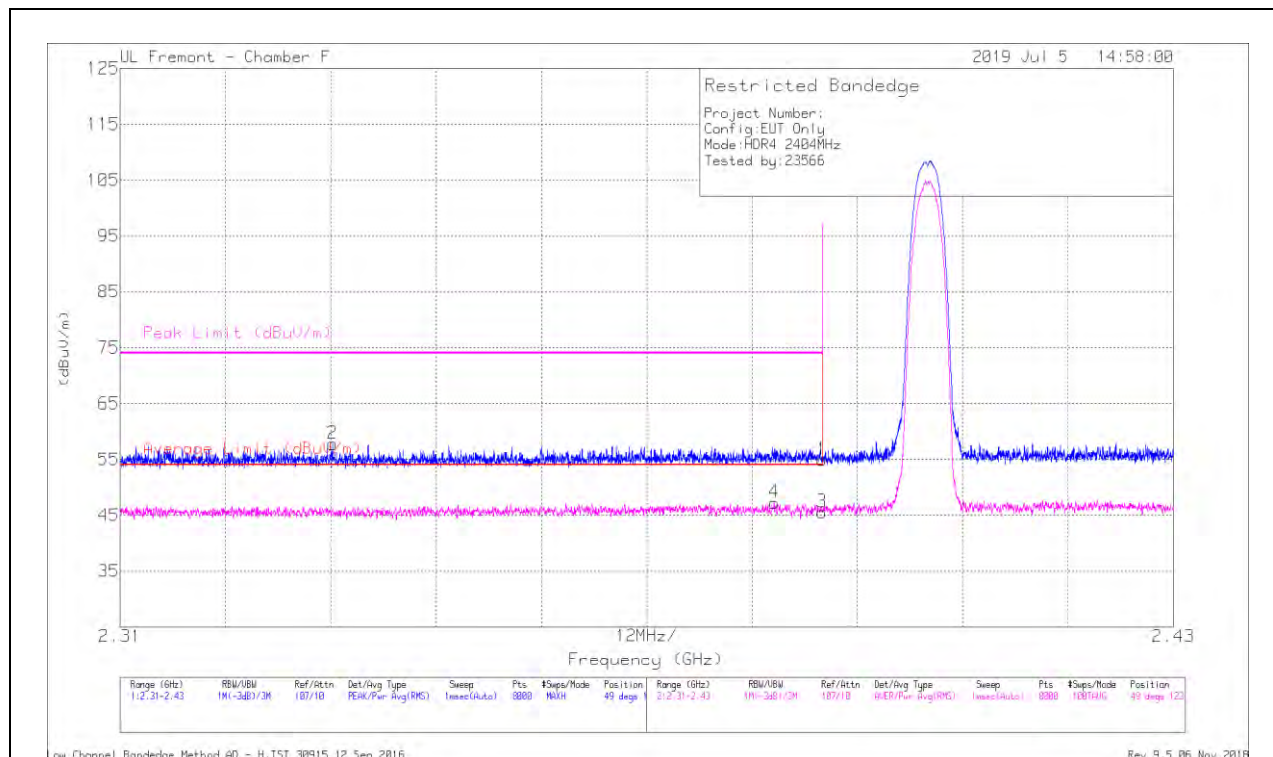
9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER HDR (HDR4)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



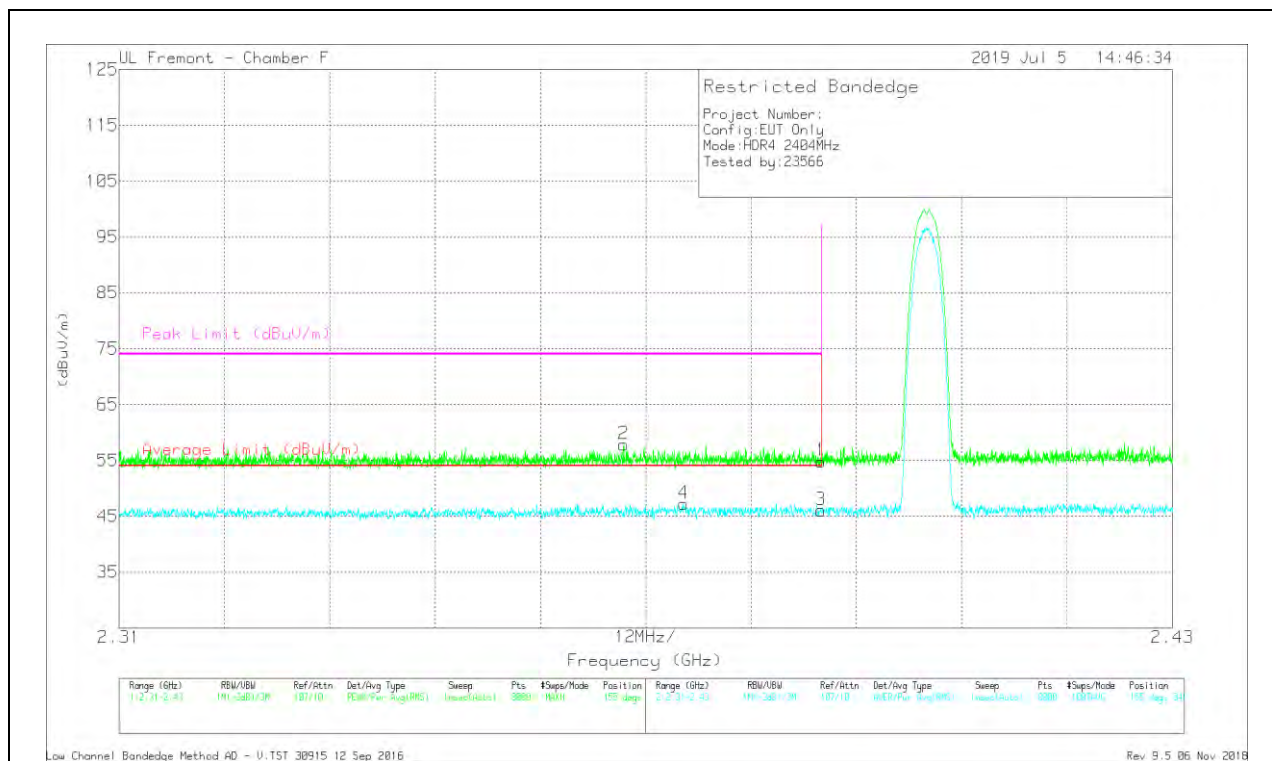
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.4	Pk	32	-14.5	54.9	-	-	74	-19.1	49	123	H
2	* 2.334	40.68	Pk	31.6	-14.5	57.78	-	-	74	-16.22	49	123	H
3	* 2.39	28.05	RMS	32	-14.5	45.55	54	-8.45	-	-	49	123	H
4	* 2.385	29.84	RMS	31.9	-14.5	47.24	54	-6.76	-	-	49	123	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 T345 (dBm)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.34	Pk	32	-14.5	54.84	-	-	74	-19.16	155	346	V
2	* 2.367	40.47	Pk	31.8	-14.4	57.87	-	-	74	-16.13	155	346	V
3	* 2.39	28.6	RMS	32	-14.5	46.1	54	-7.9	-	-	155	346	V
4	* 2.374	29.74	RMS	31.9	-14.4	47.24	54	-6.76	-	-	155	346	V

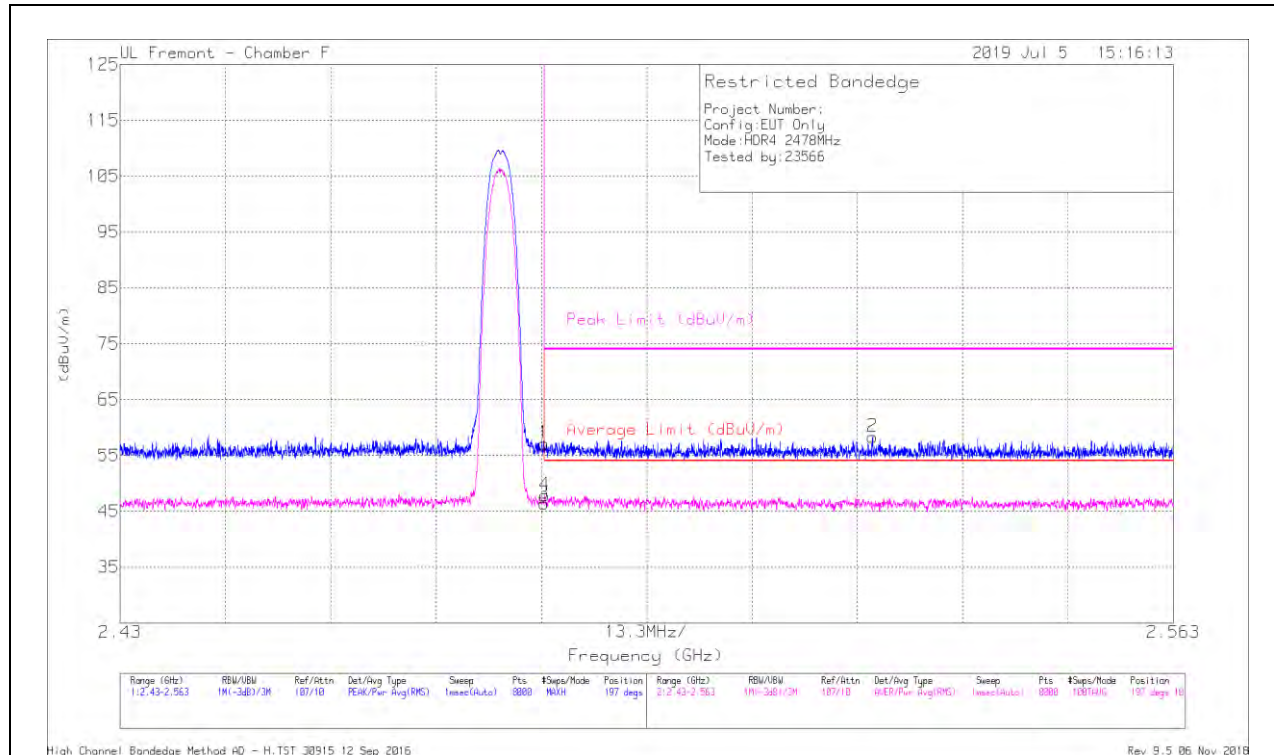
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



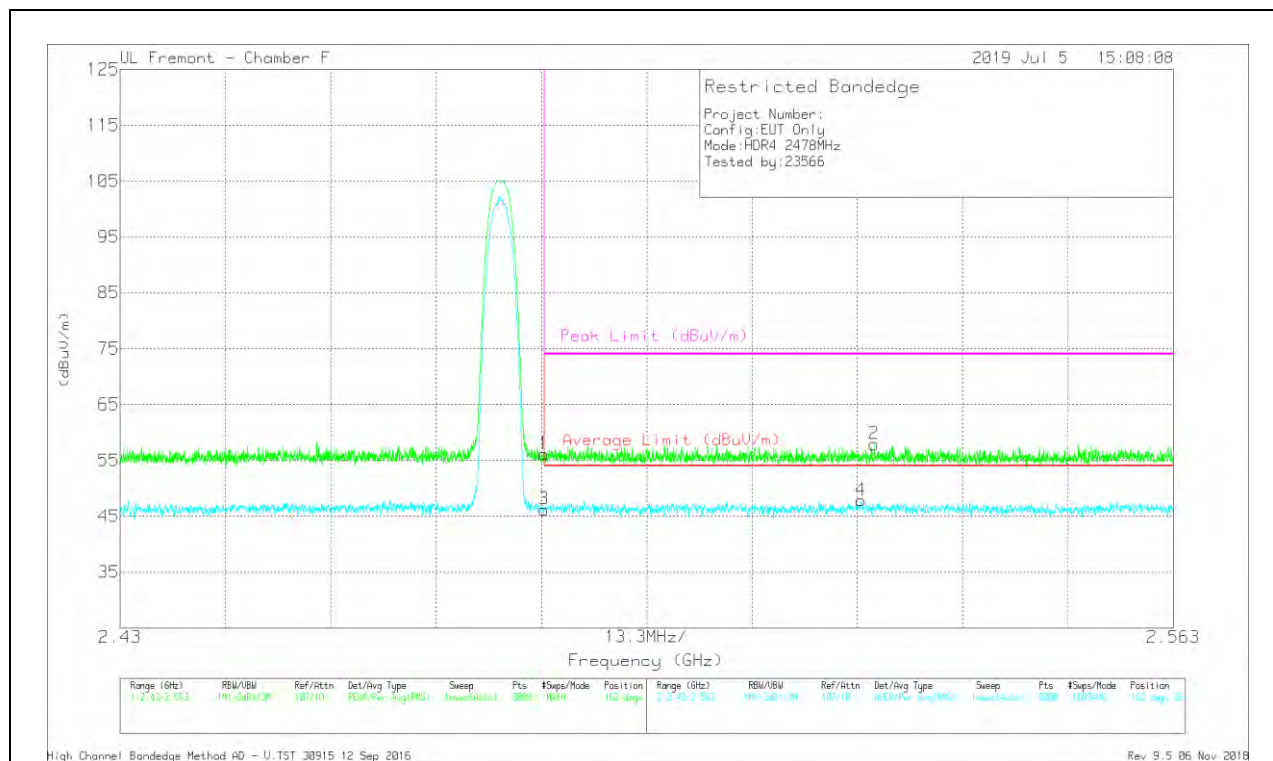
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.44	Pk	32.4	-14.7	57.14	-	-	74	-16.86	197	101	H
2	2.525	40.55	Pk	32.4	-14.6	58.35	-	-	74	-15.65	197	101	H
3	* 2.484	28.66	RMS	32.4	-14.7	46.36	54	-7.64	-	-	197	101	H
4	* 2.484	30.15	RMS	32.4	-14.7	47.85	54	-6.15	-	-	197	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 T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.4	Pk	32.4	-14.7	56.1	-	-	74	-17.9	162	364	V
2	2.525	40.1	Pk	32.4	-14.6	57.9	-	-	74	-16.1	162	364	V
3	* 2.484	28.5	RMS	32.4	-14.7	46.2	54	-7.8	-	-	162	364	V
4	2.524	30.03	RMS	32.3	-14.5	47.83	54	-6.17	-	-	162	364	V

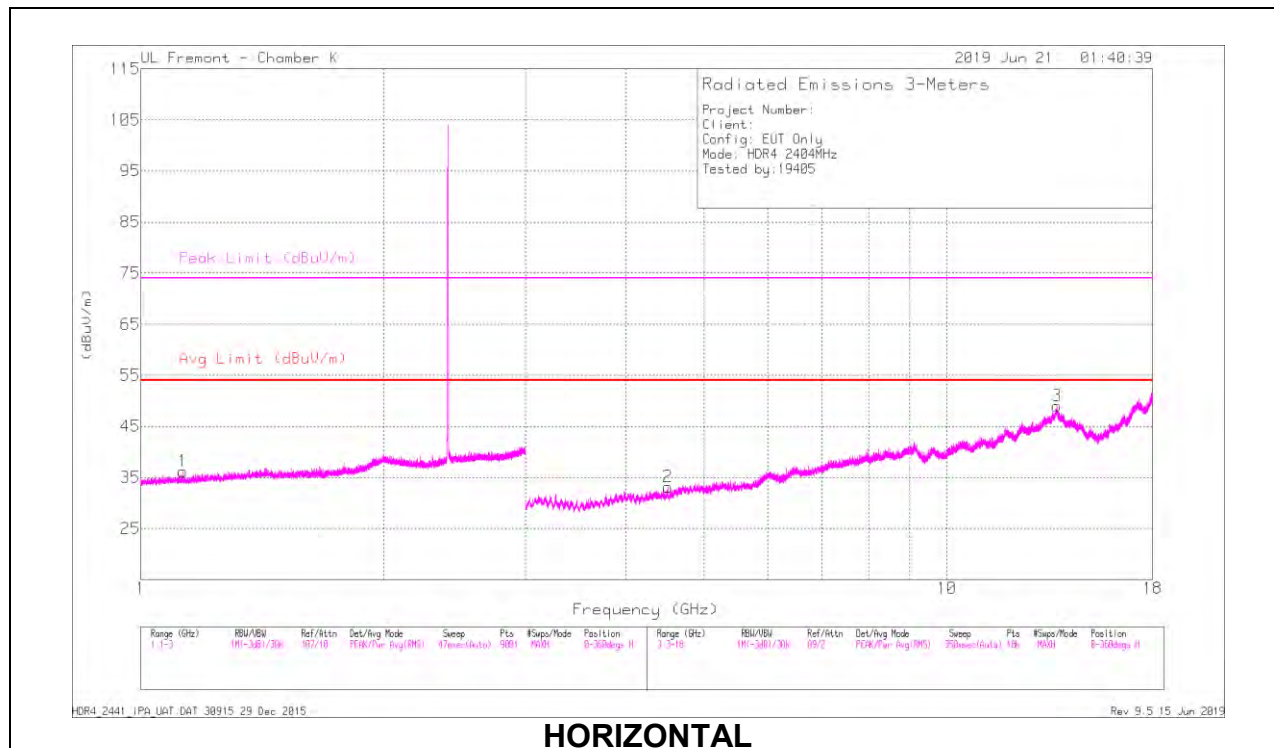
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

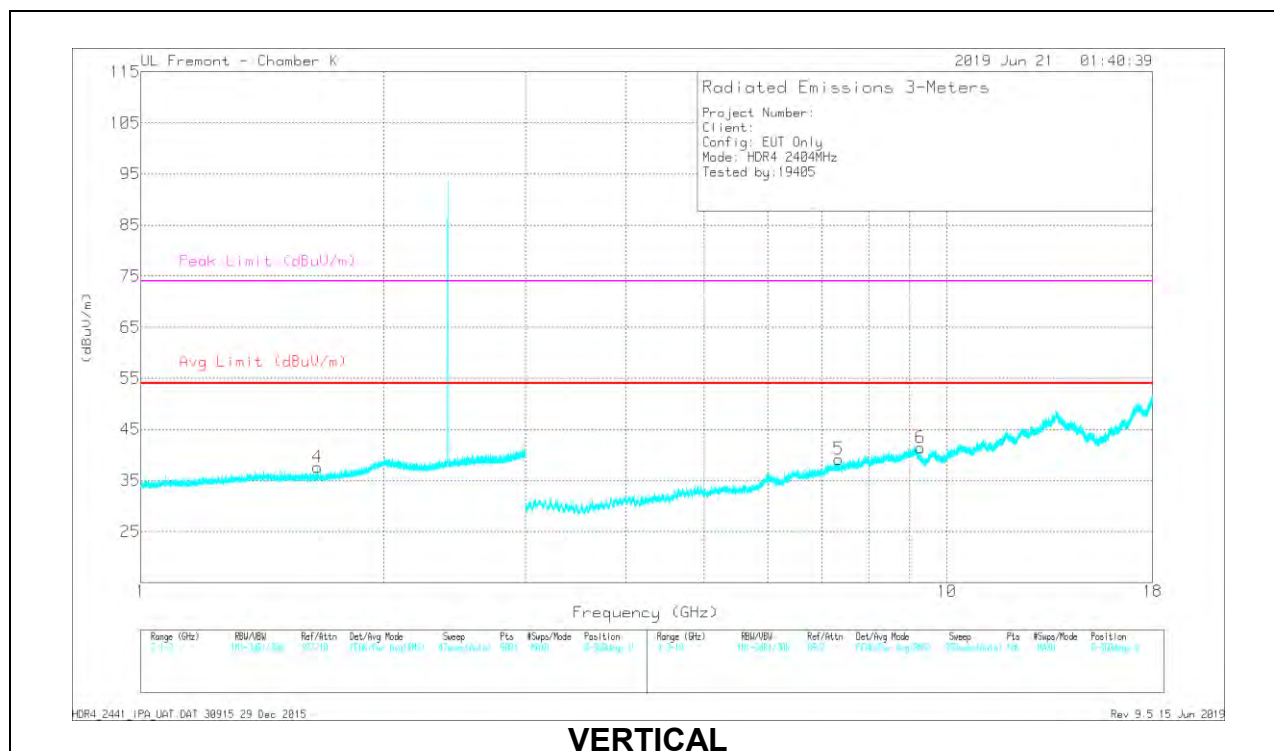
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

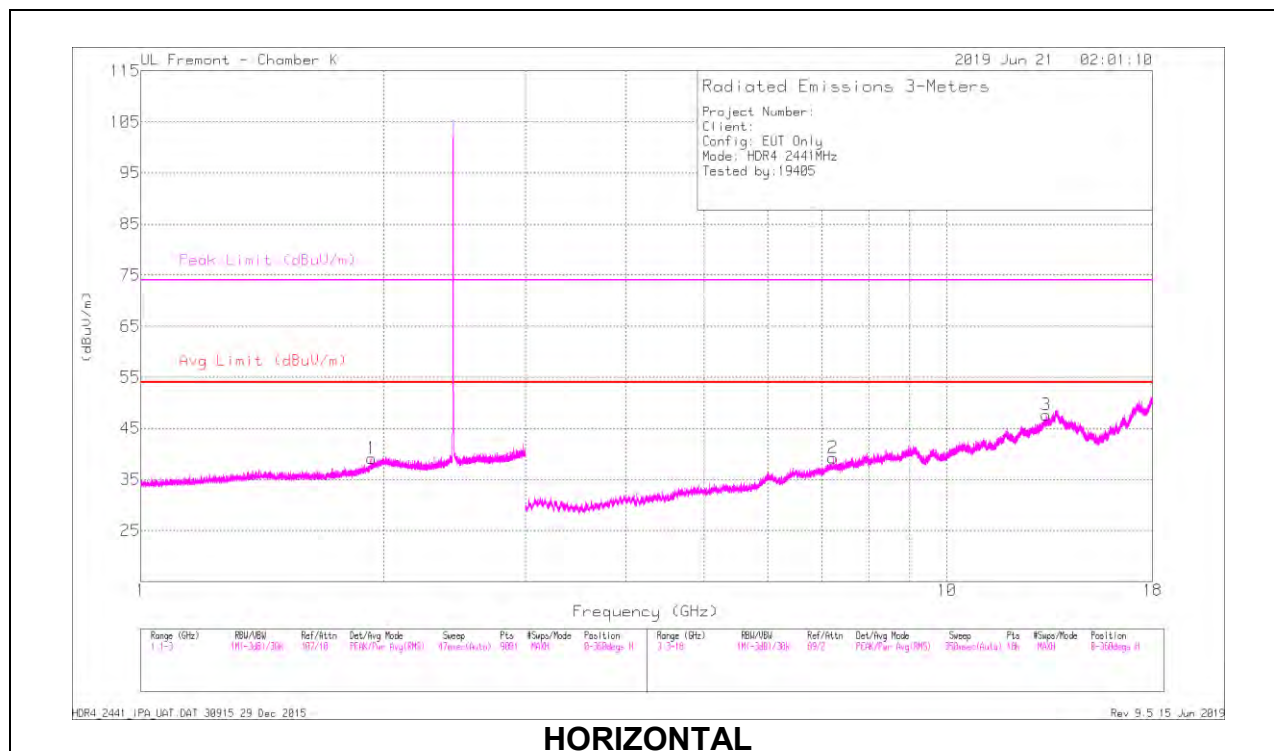
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.1264	42.82	PK2	23.7	-23.9	42.62	-	-	74	-31.38	298	346	H
	* 1.12711	32.79	MAv1	23.7	-23.8	32.69	54	-21.31	-	-	298	346	H
4	1.65745	43.15	PK2	24.9	-24	44.05	-	-	74	-29.95	231	333	V
2	* 4.50433	38.57	PK2	32	-30.6	39.97	-	-	74	-34.03	156	288	H
	* 4.50512	28.66	MAv1	32	-30.6	30.06	54	-23.94	-	-	156	288	H
3	13.7071	31.75	PK2	43	-18.6	56.15	-	-	74	-17.85	212	368	H
5	* 7.34604	35.06	PK2	37.1	-26.4	45.76	-	-	74	-28.24	279	144	V
	* 7.34555	24.95	MAv1	37.1	-26.4	35.65	54	-18.35	-	-	279	144	V
6	9.27124	33.66	PK2	38.6	-23.5	48.76	-	-	74	-25.24	70	138	V

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

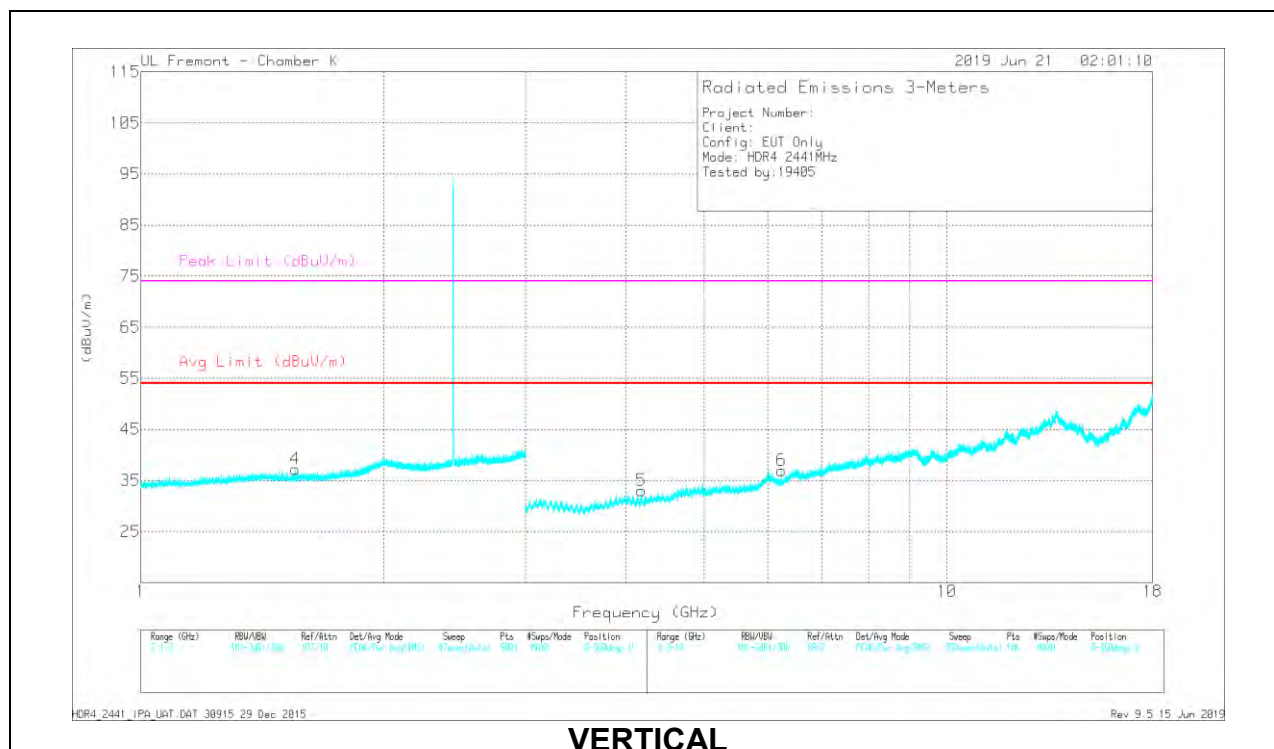
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

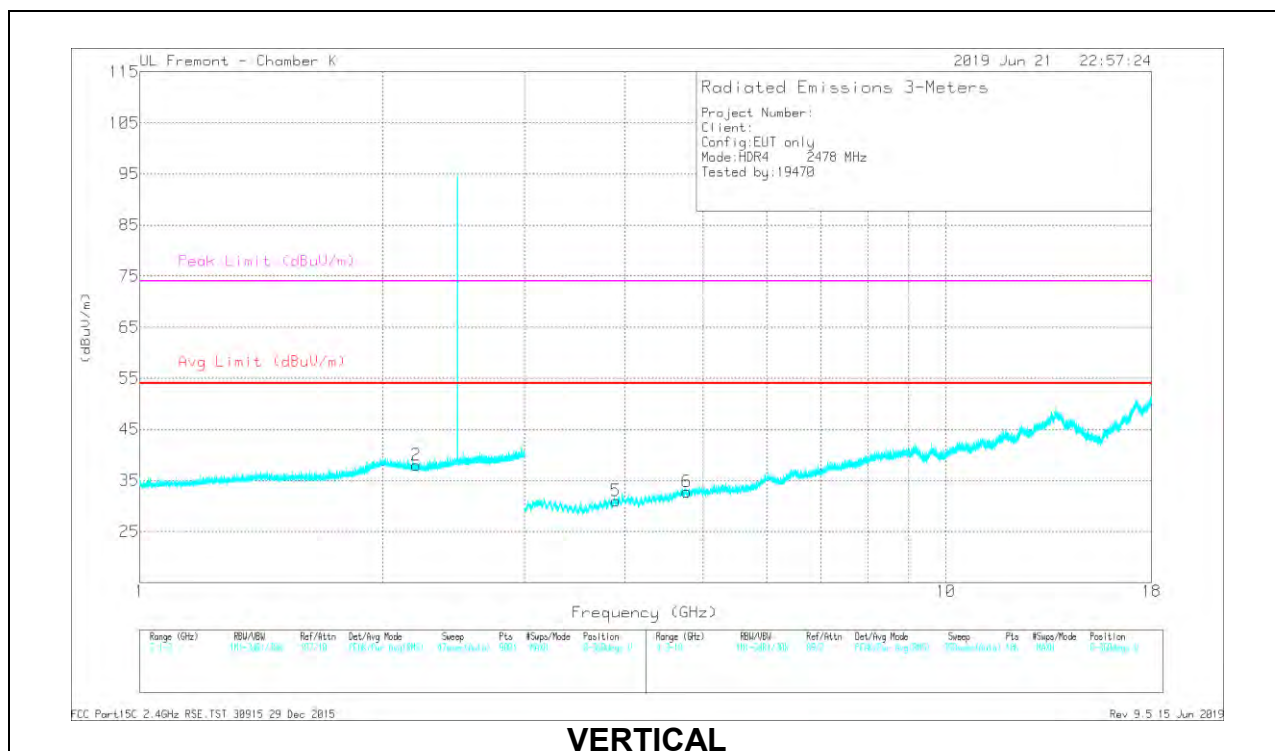
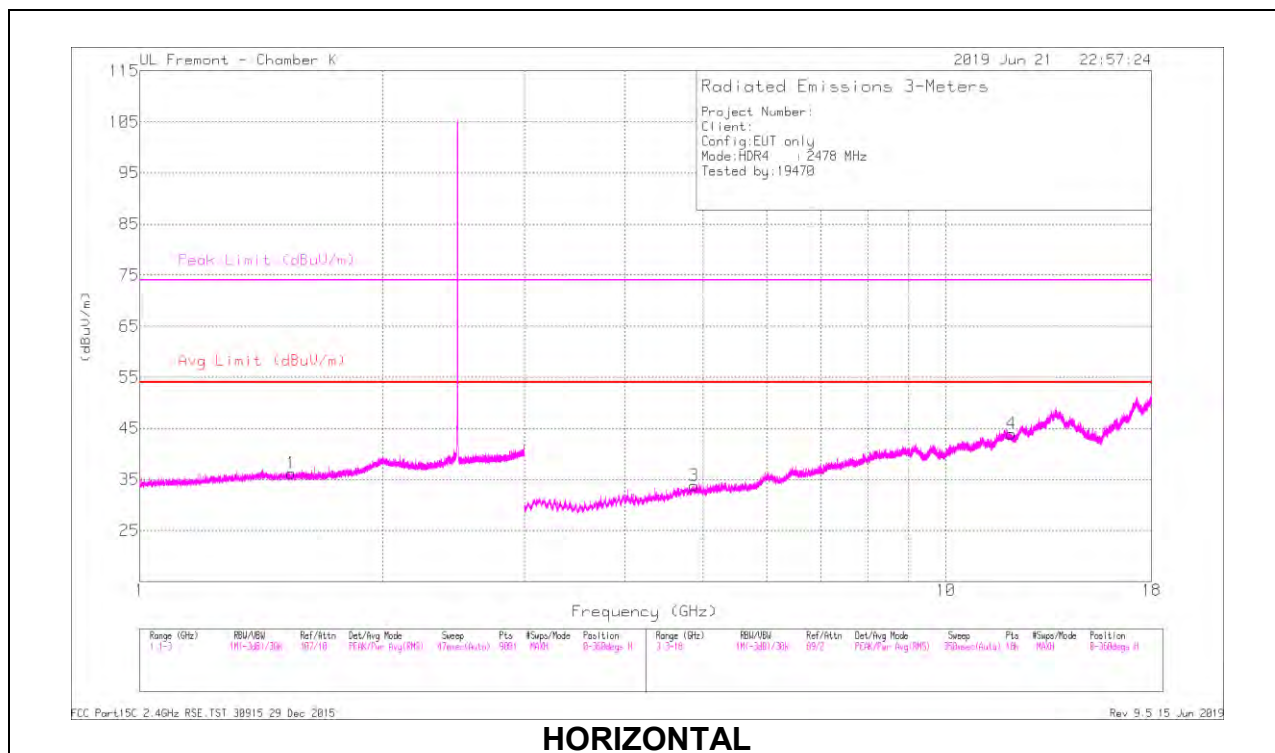
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.93642	43.06	PK2	27.1	-24.2	45.96	-	-	74	-28.04	332	354	H
4	* 1.5519	43.09	PK2	24.8	-23.9	43.99	-	-	74	-30.01	281	152	V
	* 1.55434	32.87	MAv1	24.8	-24	33.67	54	-20.33	-	-	281	152	V
2	7.2246	34.75	PK2	37.1	-26.2	45.65	-	-	74	-28.44	25	233	H
3	* 13.29169	31.85	PK2	42.6	-20	54.45	-	-	74	-19.55	177	256	H
	* 13.29209	21.95	MAv1	42.6	-20	44.55	54	-9.45	-	-	177	256	H
5	* 4.18215	39.67	PK2	31.2	-31.1	39.77	-	-	74	-34.23	166	122	V
	* 4.18248	29.12	MAv1	31.2	-31.1	29.22	54	-24.78	-	-	166	122	V
6	6.24265	35.98	PK2	34.8	-28	42.78	-	-	74	-31.22	248	348	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/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	* 1.53951	42.94	PK2	24.7	-23.9	43.74	-	-	74	-30.26	166	120	H
	* 1.54003	33.02	MAv1	24.7	-23.9	33.82	54	-20.18	-	-	166	120	H
2	* 2.20173	43.5	PK2	27.4	-24.7	46.2	-	-	74	-27.8	152	147	V
	* 2.2039	33.33	MAv1	27.4	-24.6	36.13	54	-17.87	-	-	152	147	V
3	* 4.86999	38.74	PK2	33.2	-30.5	41.44	-	-	74	-32.56	184	162	H
	* 4.87053	28.33	MAv1	33.2	-30.5	31.03	54	-22.97	-	-	184	162	H
4	* 12.06071	32.11	PK2	40.2	-20.1	52.21	-	-	74	-21.79	209	189	H
	* 12.06117	21.39	MAv1	40.2	-20.1	41.49	54	-12.51	-	-	209	189	H
5	* 3.89554	37.02	PK2	31.4	-31.6	36.82	-	-	74	-37.18	190	241	V
	* 3.89906	29.11	MAv1	31.4	-31.6	28.91	54	-25.09	-	-	190	241	V
6	* 4.77179	38.12	PK2	32.9	-30.2	40.82	-	-	74	-33.18	217	227	V
	* 4.77339	28.22	MAv1	32.9	-30.2	30.92	54	-23.08	-	-	217	227	V

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

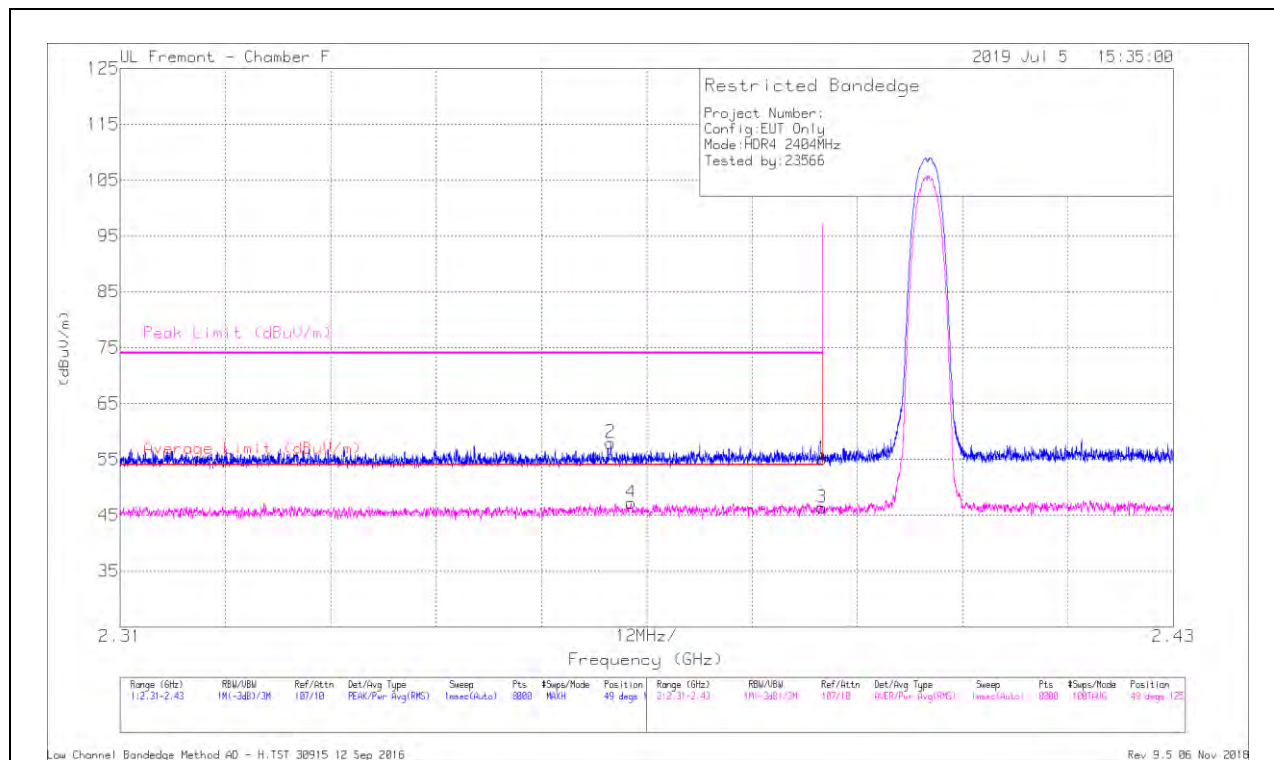
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /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	37.56	Pk	32	-14.5	55.06	-	-	74	-18.94	49	125	H
2	* 2.366	40.57	Pk	31.8	-14.4	57.97	-	-	74	-16.03	49	125	H
3	* 2.39	28.87	RMS	32	-14.5	46.37	54	-7.63	-	-	49	125	H
4	* 2.368	29.71	RMS	31.9	-14.4	47.21	54	-6.79	-	-	49	125	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber F

2019 Jul 5 15:26:50

Restricted Bandedge

Project Number:
Config: EUT Only
Mode: HDR4 2484MHz
Tested by: 23566

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

Frequency (GHz)

12MHz/

2.31 2.43

Range (GHz)	RBW/NBW	Ref/Attn	Det/Avg Type	Sweep	Pts	#Sups/Node	Position	Range (GHz)	RBW/NBW	Ref/Attn	Det/Avg Type	Sweep	Pts	#Sups/Node	Position
1.27-1.2.43	1M-3dB/12M	107/10	Peak/Fat	Auto/MS	1000	1000	2 steps	1.27-1.2.43	1M-3dB/12M	107/10	Peak/Fat	Auto/MS	1000	1000	2 steps

Low Channel Bandedge Method A0 - U.TST 30915 12 Sep 2016

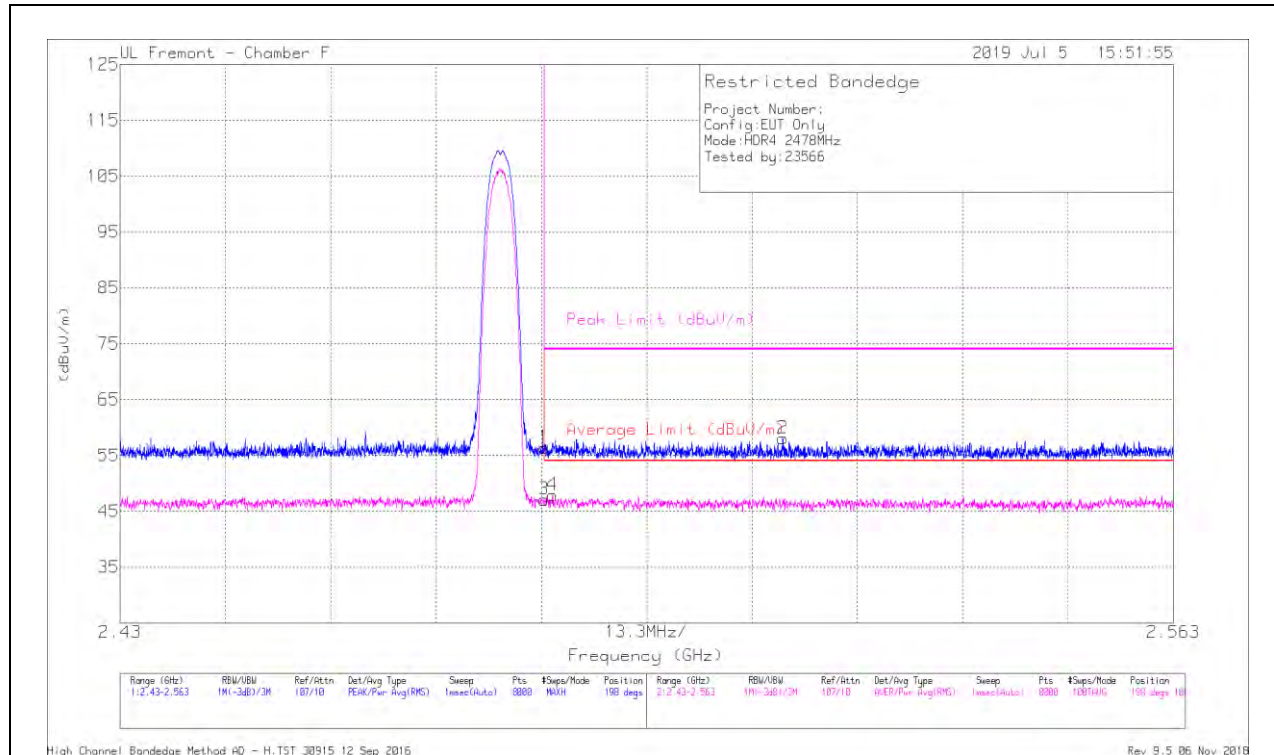
Rev 9.5 06 Nov 2019

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.5	Pk	32	-14.5	54	-	-	74	-20	3	343	V
2	* 2.386	40.8	Pk	31.9	-14.5	58.2	-	-	74	-15.8	3	343	V
3	* 2.39	28.28	RMS	32	-14.5	45.78	54	-8.22	-	-	3	343	V
4	* 2.389	29.89	RMS	32	-14.5	47.39	54	-6.61	-	-	3	343	V

Pk - Peak detector
RMS - RMS detection

BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



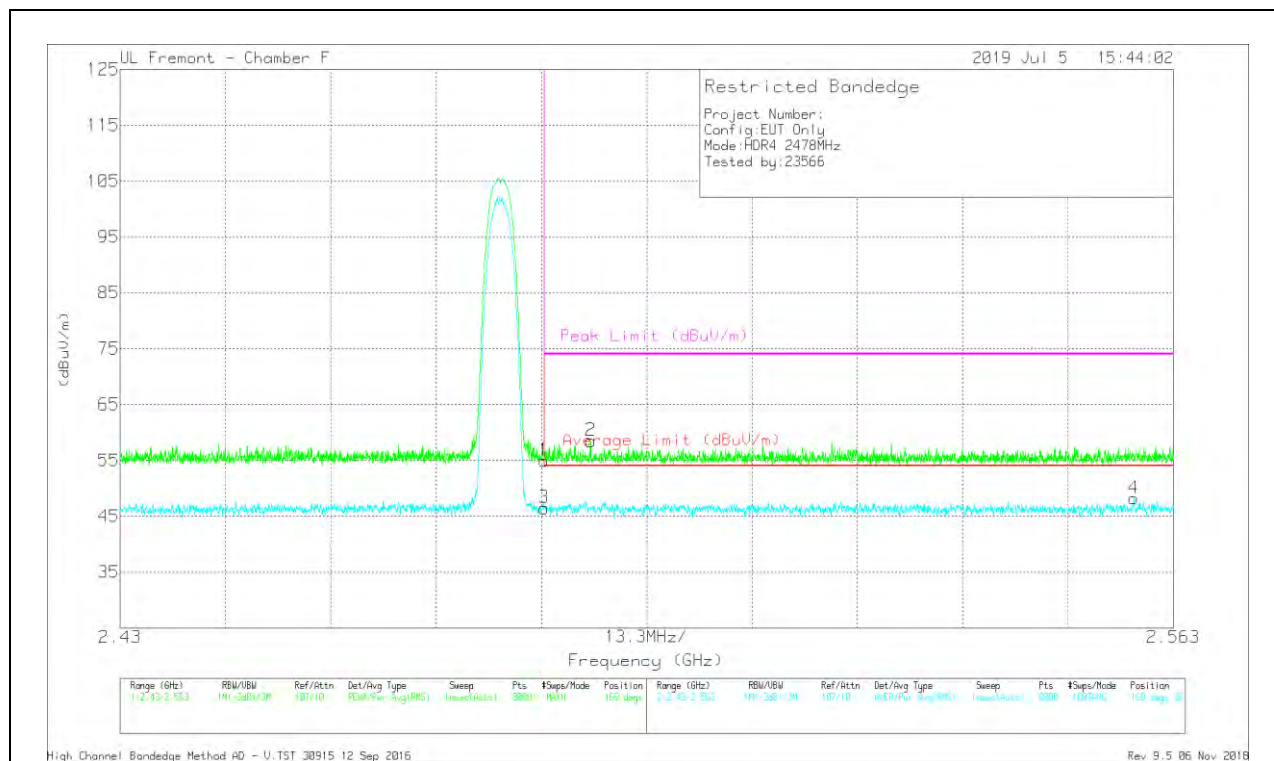
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filt /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.65	Pk	32.4	-14.7	56.35	-	-	74	-17.65	198	100	H
2	2.514	40.46	Pk	32.4	-14.8	58.06	-	-	74	-15.94	198	100	H
3	* 2.484	29.37	RMS	32.4	-14.7	47.07	54	-6.93	-	-	198	100	H
4	* 2.485	30.07	RMS	32.4	-14.6	47.87	54	-6.13	-	-	198	100	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 T345 (dBm)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.21	Pk	32.4	-14.7	54.91	-	-	74	-19.09	169	363	V
2	* 2.489	40.81	Pk	32.3	-14.6	58.51	-	-	74	-15.49	169	363	V
3	* 2.484	28.75	RMS	32.4	-14.7	46.45	54	-7.55	-	-	169	363	V
4	2.558	30.29	RMS	32.4	-14.5	48.19	54	-5.81	-	-	169	363	V

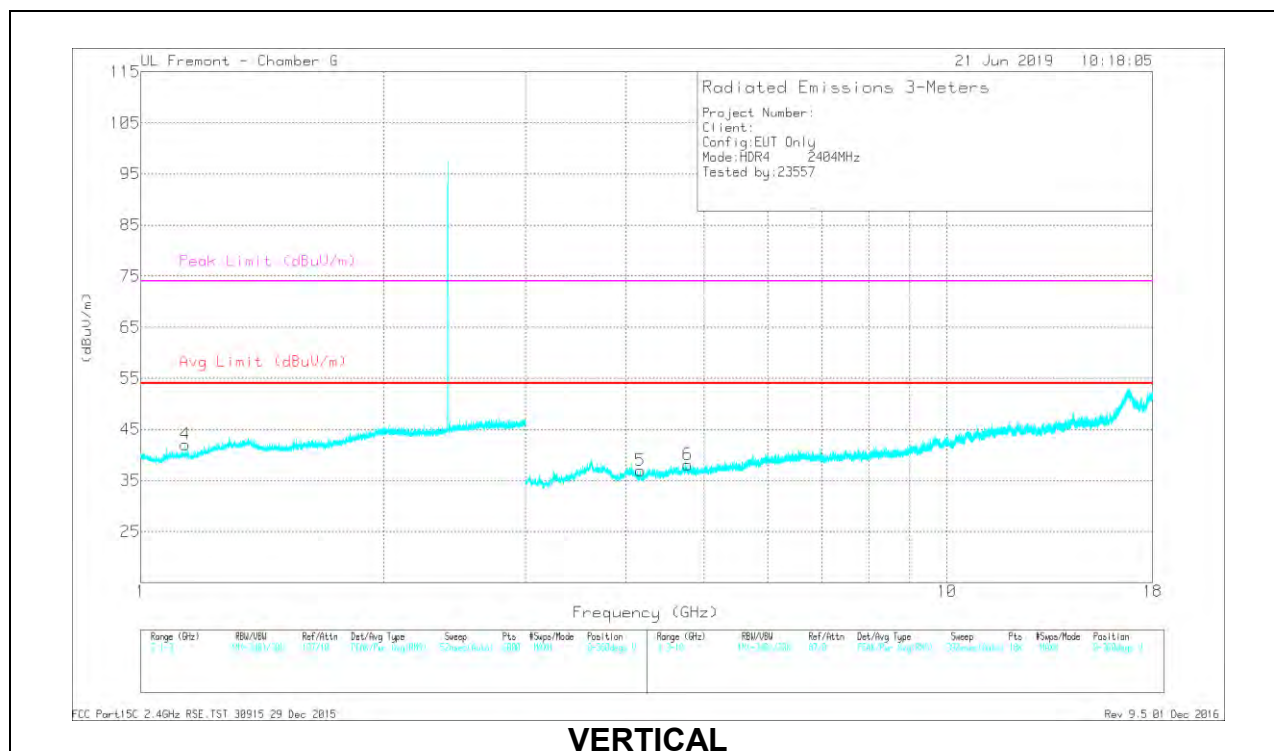
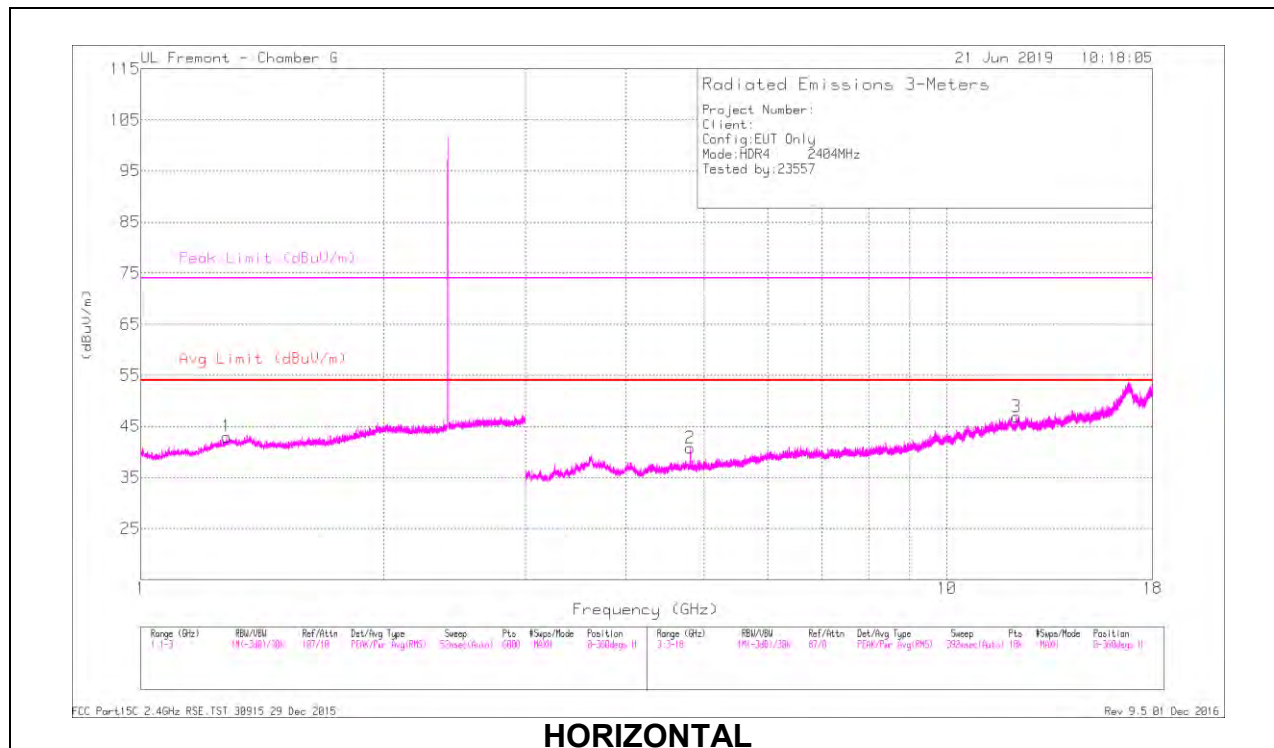
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

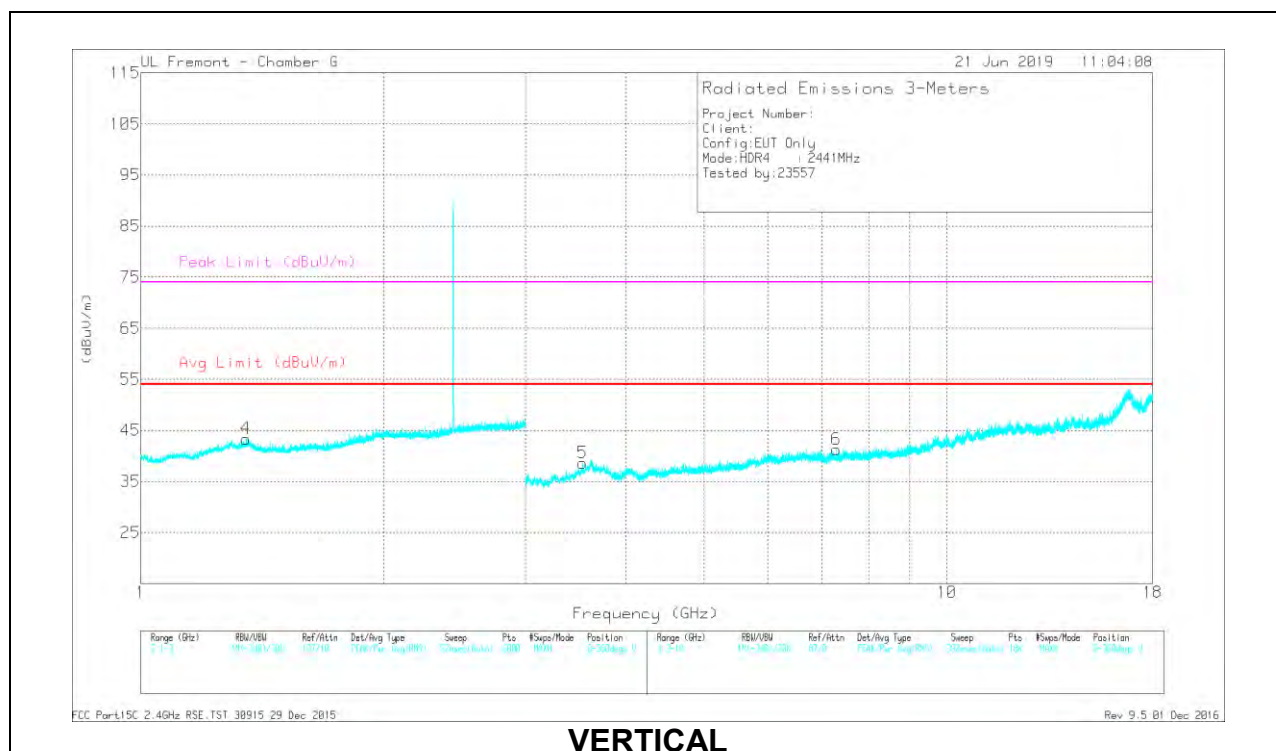
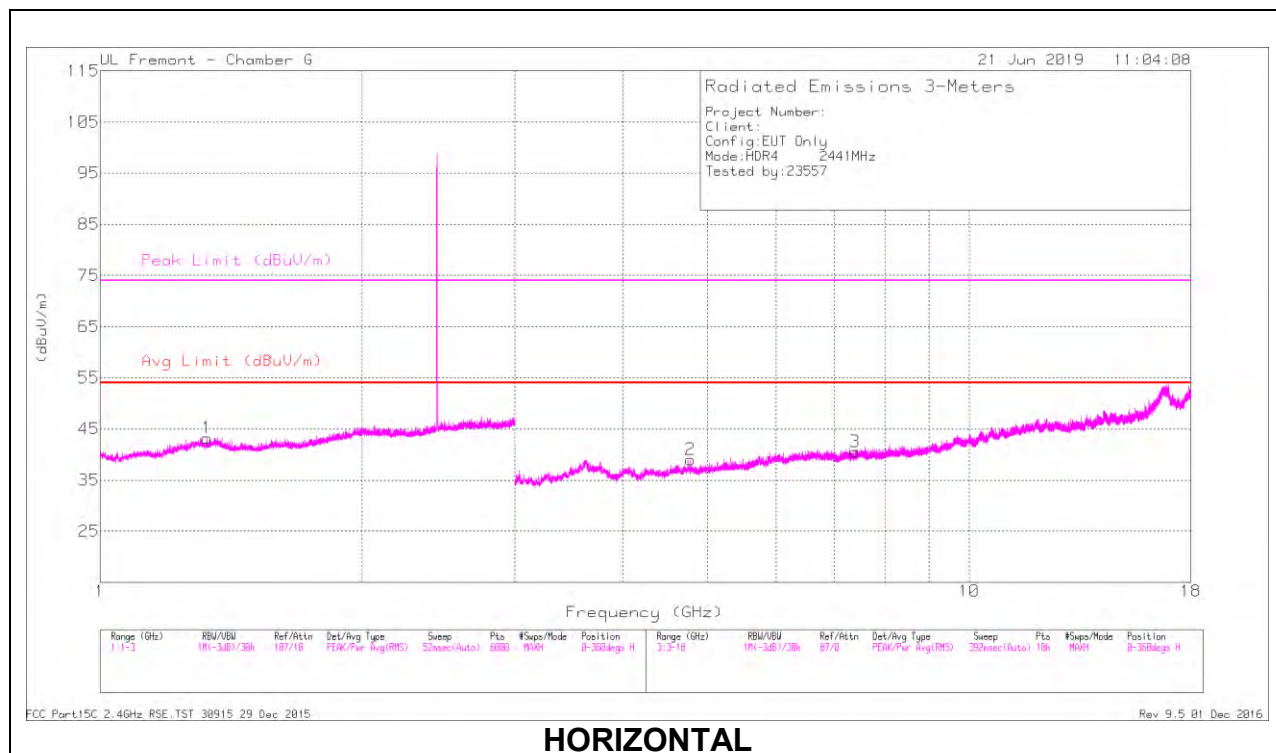
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.276	43.75	PK2	29.8	-23.6	49.95	-	-	74	-24.05	57	354	H
1	* 1.279	31.67	MAv1	29.8	-23.6	37.87	54	-16.13	-	-	57	354	H
	* 1.135	44.16	PK2	27.9	-23.7	48.36	-	-	74	-25.64	27	177	V
4	* 1.136	31.9	MAv1	27.9	-23.7	36.1	54	-17.9	-	-	27	177	V
	* 4.808	41.73	PK2	34.3	-29.8	46.23	-	-	74	-27.77	322	145	H
2	* 4.808	32.04	MAv1	34.3	-29.8	36.54	54	-17.46	-	-	322	145	H
	* 12.197	36.73	PK2	39.6	-22.9	53.43	-	-	74	-20.57	0	194	H
3	* 12.199	24.74	MAv1	39.5	-22.9	41.34	54	-12.66	-	-	0	194	H
	* 4.168	40.12	PK2	33.5	-30.4	43.22	-	-	74	-30.78	1	314	V
5	* 4.167	28.81	MAv1	33.5	-30.4	31.91	54	-22.09	-	-	1	314	V
	* 4.768	40.62	PK2	34.2	-29.6	45.22	-	-	74	-28.78	320	102	V
6	* 4.768	28.56	MAv1	34.2	-29.6	33.16	54	-20.84	-	-	320	102	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

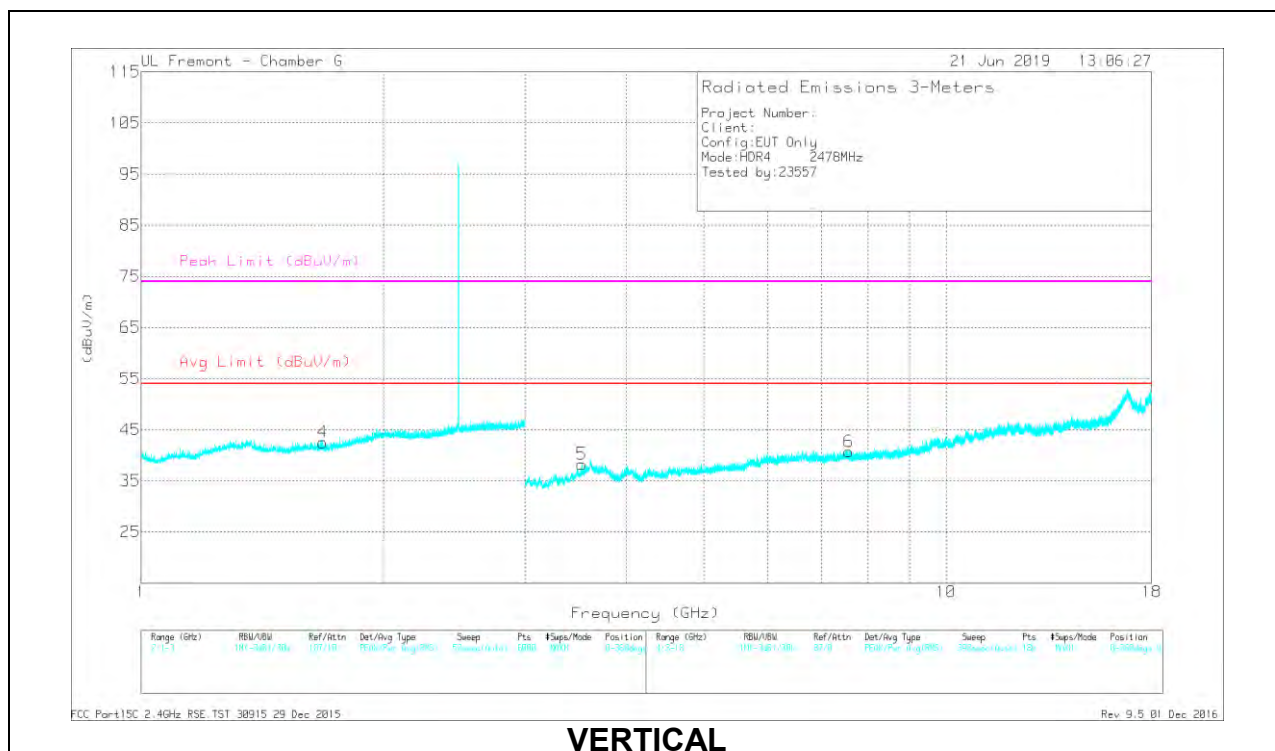
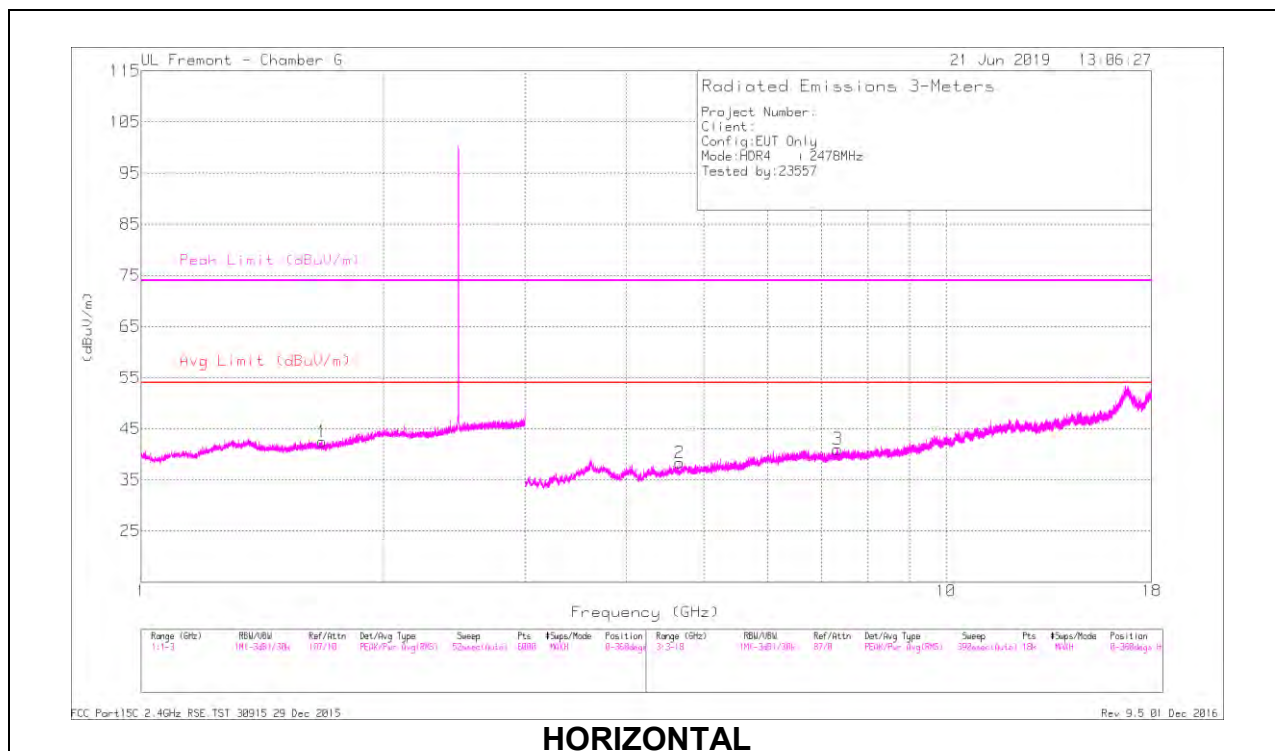
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.327	43.48	PK2	29.7	-23.4	49.78	-	-	74	-24.22	180	223	H
1	* 1.327	31.84	MAv1	29.7	-23.4	38.14	54	-15.86	-	-	180	223	H
	* 1.353	44.15	PK2	30	-23.3	50.85	-	-	74	-23.15	239	252	V
4	* 1.35	32.03	MAv1	29.9	-23.3	38.63	54	-15.37	-	-	239	252	V
	* 4.784	39.76	PK2	34.3	-29.8	44.26	-	-	74	-29.74	0	136	H
2	* 4.785	28.15	MAv1	34.3	-29.8	32.65	54	-21.35	-	-	0	136	H
	* 7.388	39.6	PK2	35.9	-28.2	47.3	-	-	74	-26.7	60	117	H
3	* 7.39	28.04	MAv1	35.9	-28.2	35.74	54	-18.26	-	-	60	117	H
	* 3.531	40.87	PK2	35	-30.6	45.27	-	-	74	-28.73	76	364	V
5	* 3.531	29.03	MAv1	35	-30.6	33.43	54	-20.57	-	-	76	364	V
	* 7.294	38.51	PK2	35.8	-27.4	46.91	-	-	74	-27.09	278	205	V
6	* 7.293	26.93	MAv1	35.8	-27.4	35.33	54	-18.67	-	-	278	205	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.678	43.09	PK2	28.3	-21.5	49.89	-	-	74	-24.11	155	172	H
1	* 1.678	31.14	MAv1	28.3	-21.5	37.94	54	-16.06	-	-	155	172	H
	* 1.682	42.43	PK2	28.3	-21.6	49.13	-	-	74	-24.87	270	302	V
4	* 1.683	30.91	MAv1	28.3	-21.6	37.61	54	-16.39	-	-	270	302	V
	* 4.668	39.92	PK2	34.3	-29.7	44.52	-	-	74	-29.48	190	112	H
2	* 4.668	28.32	MAv1	34.3	-29.7	32.92	54	-21.08	-	-	190	112	H
	* 7.334	38.99	PK2	35.8	-27.8	46.99	-	-	74	-27.01	151	105	H
3	* 7.331	27.54	MAv1	35.9	-27.8	35.64	54	-18.36	-	-	151	105	H
	* 3.53	41.71	PK2	35	-30.6	46.11	-	-	74	-27.89	296	159	V
5	* 3.528	29.55	MAv1	35	-30.6	33.95	54	-20.05	-	-	296	159	V
	* 7.57	38.91	PK2	36.1	-27	48.01	-	-	74	-25.99	28	301	V
6	* 7.566	26.54	MAv1	36.1	-27	35.64	54	-18.36	-	-	28	301	V

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

PK2 - KDB558074 Method: Maximum Peak

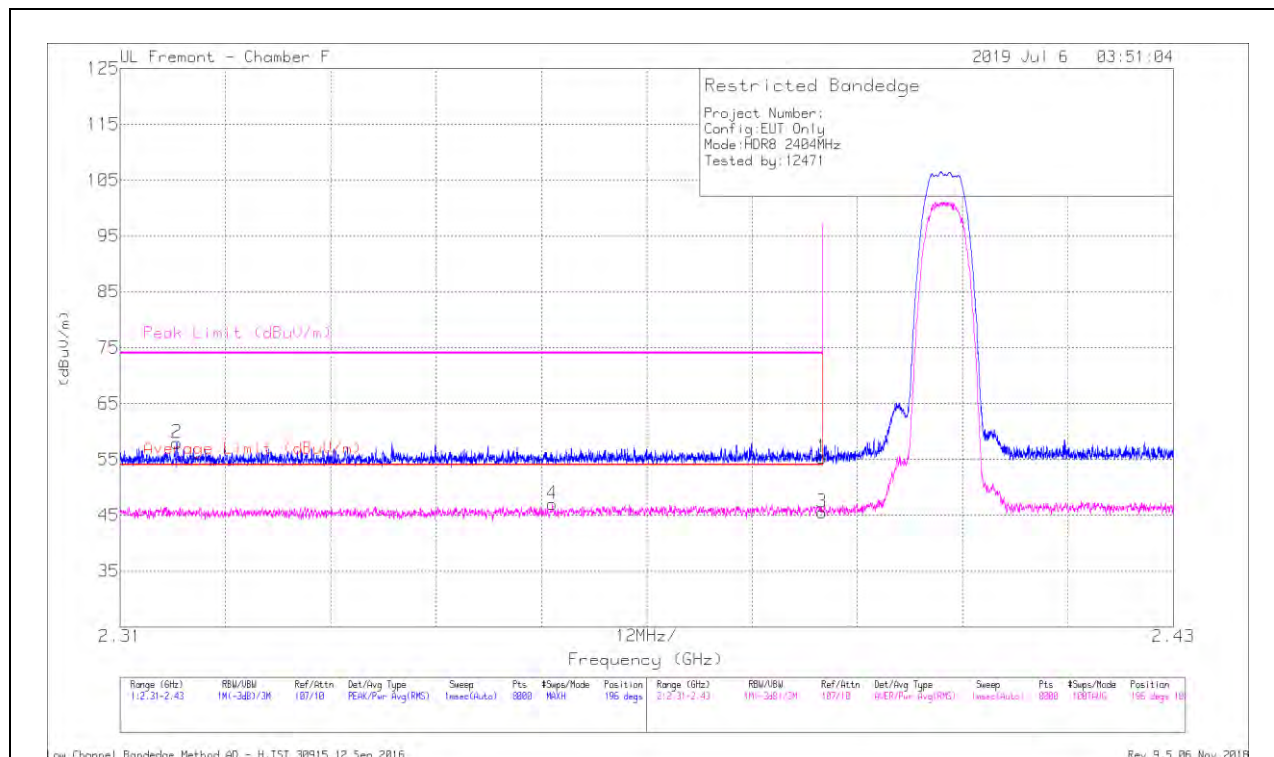
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.2. HIGH POWER HDR (HDR8)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.84	Pk	32	-14.5	55.34	-	-	74	-18.66	196	108	H
2	* 2.316	40.79	Pk	31.7	-14.5	57.99	-	-	74	-16.01	196	108	H
3	* 2.39	28.04	RMS	32	-14.5	45.54	54	-8.46	-	-	196	108	H
4	* 2.359	29.7	RMS	31.8	-14.5	47	54	-7	-	-	196	108	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber F

2019 Jul 6 03:57:44

Restricted Bandedge

Project Number:
Config: EUT Only
Mode: HDR8 2484MHz
Tested by: 12471

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

Frequency (GHz)

Range (GHz) 2.31 2.43

RBW/BBW 191.3dB/1.32dB

Ref/Attn 107/10

Det/Avg Type Peak/PPR Avg/MS

Sweep 1ms/100ns

Pts 5000

#Sups/Node 1000

Position 172 deg

Range (GHz) 2.31 2.43

RBW/BBW 191.3dB/1.32dB

Ref/Attn 107/10

Det/Avg Type Peak/PPR Avg/MS

Sweep 1ms/100ns

Pts 5000

#Sups/Node 1000

Position 172 deg

Low Channel Bandedge Method A0 - U.TST 30915 12 Sep 2016

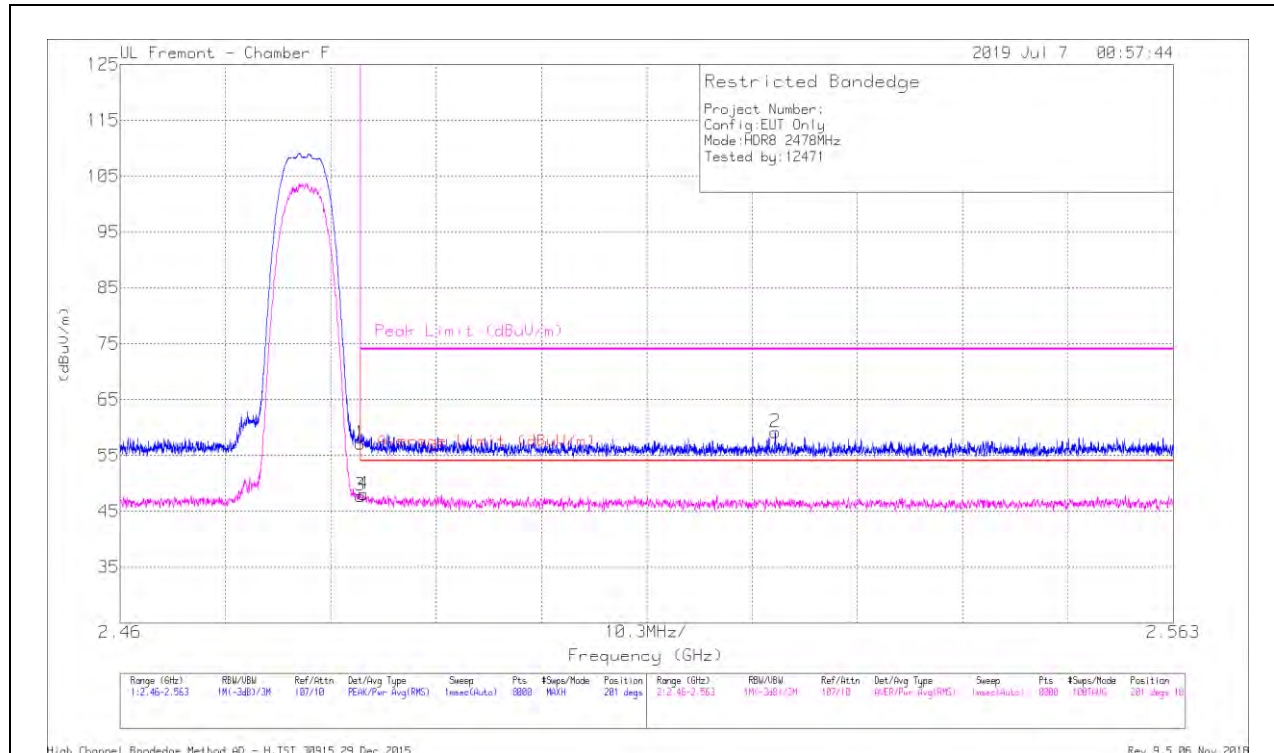
Rev 9.5 06 Nov 2019

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.84	Pk	32	-14.5	55.34	-	-	74	-18.66	172	397	V
2	* 2.315	41.52	Pk	31.7	-14.5	58.72	-	-	74	-15.28	172	397	V
3	* 2.39	28.31	RMS	32	-14.5	45.81	54	-8.19	-	-	172	397	V
4	* 2.386	29.56	RMS	31.9	-14.5	46.96	54	-7.04	-	-	172	397	V

Pk - Peak detector
RMS - RMS detection

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



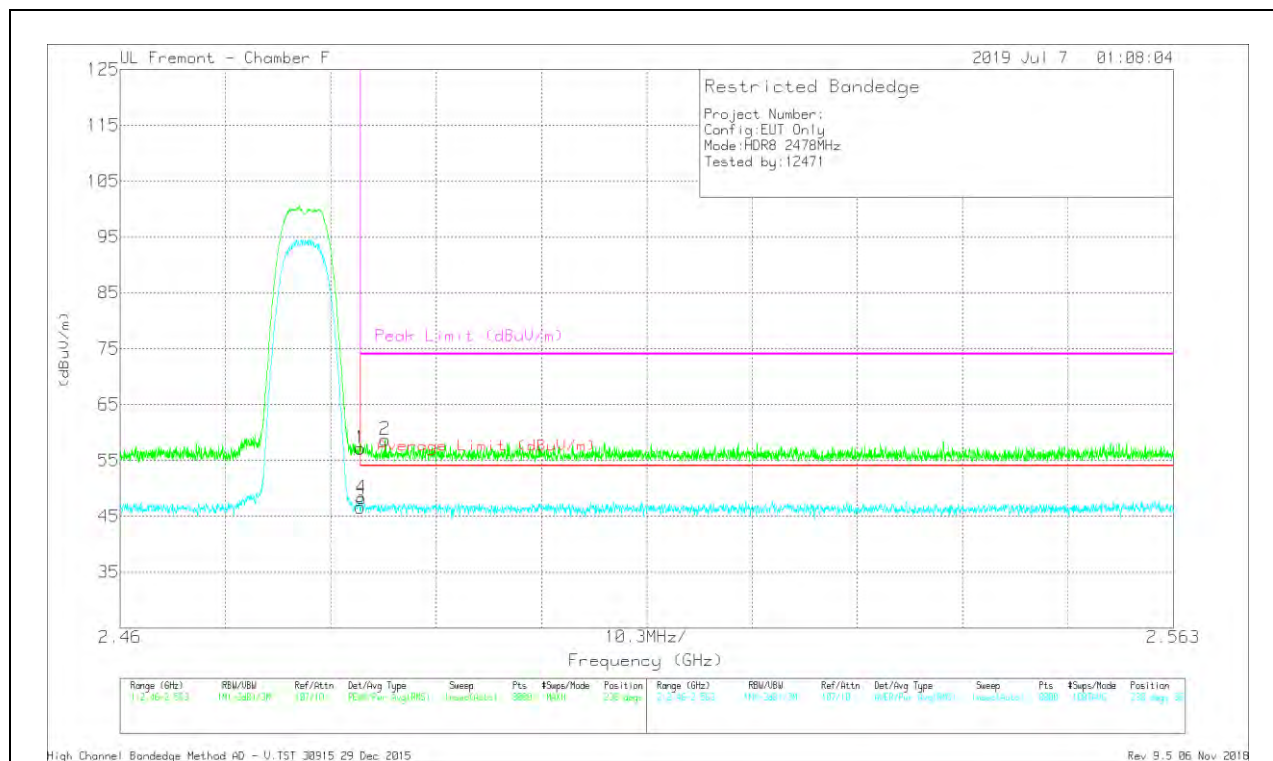
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.42	Pk	32.4	-14.7	57.12	-	-	74	-16.88	201	107	H
2	2.524	41.27	Pk	32.4	-14.5	59.17	-	-	74	-14.83	201	107	H
3	* 2.484	30.07	RMS	32.4	-14.7	47.77	54	-6.23	-	-	201	107	H
4	* 2.484	30.36	RMS	32.4	-14.7	48.06	54	-5.94	-	-	201	107	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 T345 (dB/m)	Amp/Cbl/Fitr /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	39.46	Pk	32.4	-14.7	57.16	-	-	74	-16.84	238	365	V
2	* 2.486	40.92	Pk	32.4	-14.6	58.72	-	-	74	-15.28	238	365	V
3	* 2.484	28.89	RMS	32.4	-14.7	46.59	54	-7.41	-	-	238	365	V
4	* 2.484	30.52	RMS	32.4	-14.7	48.22	54	-5.78	-	-	238	365	V

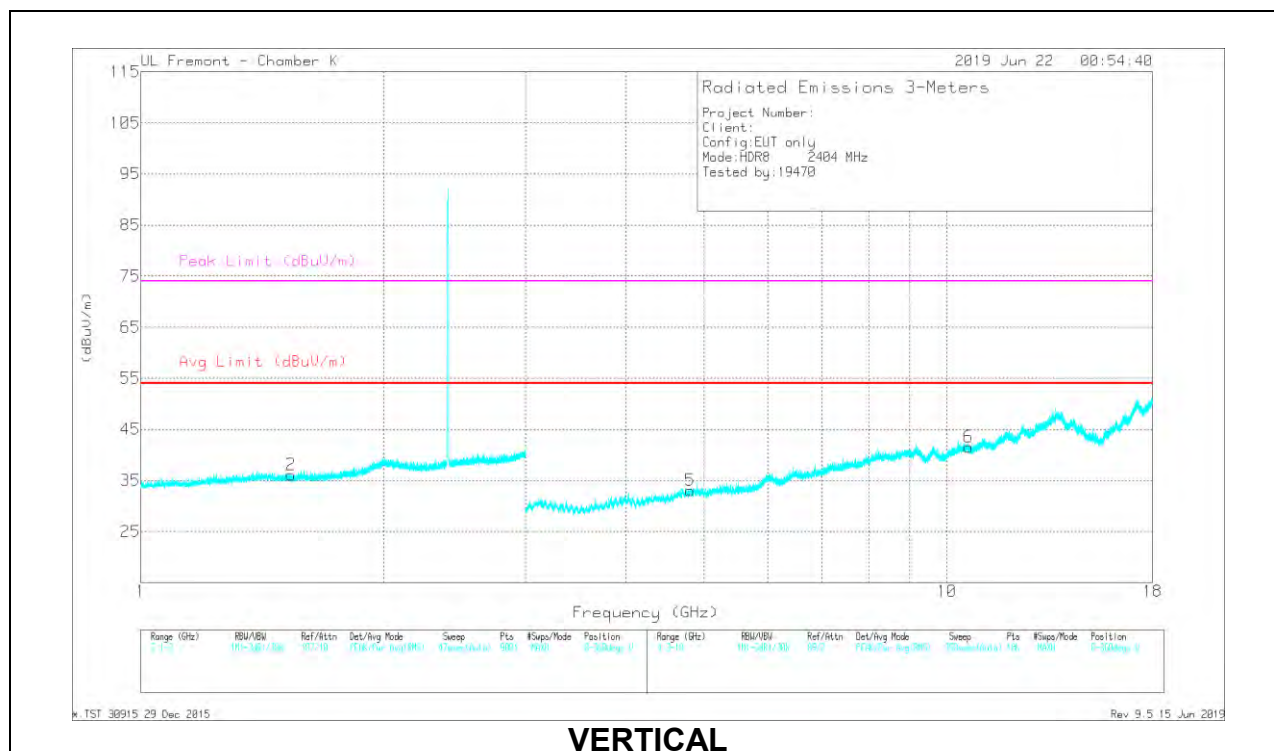
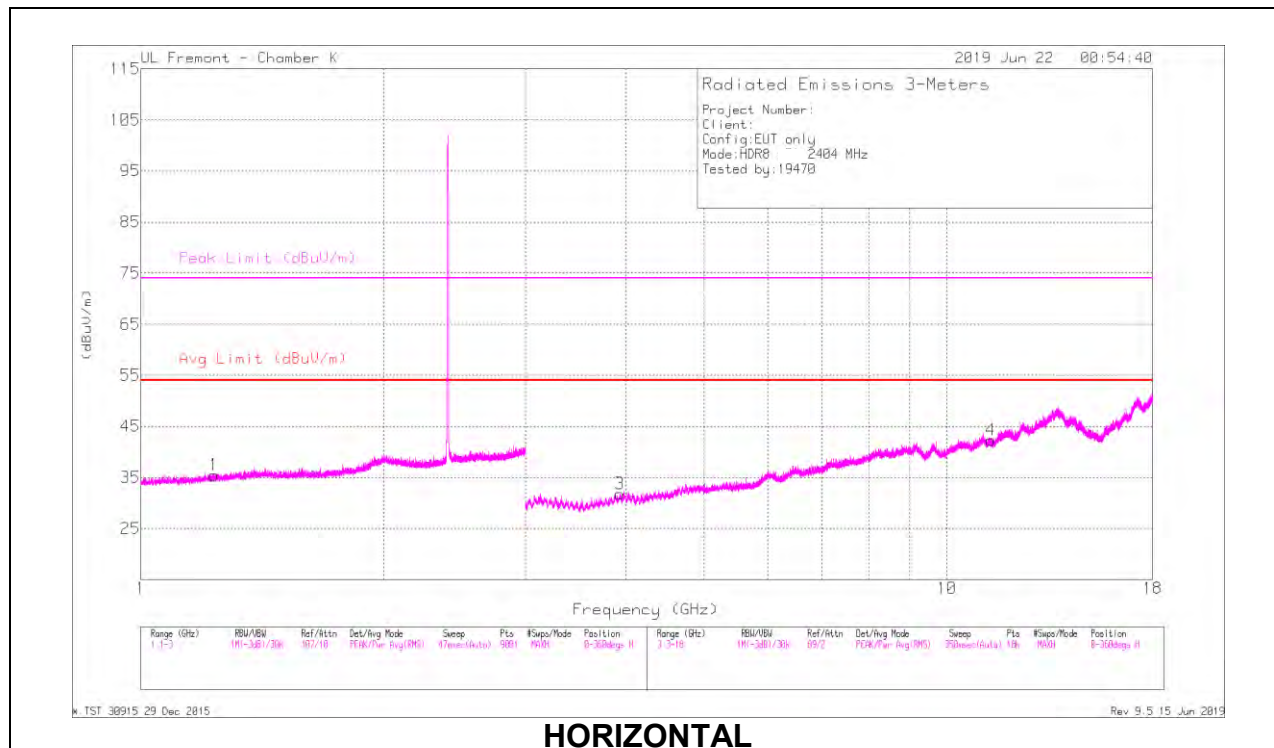
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

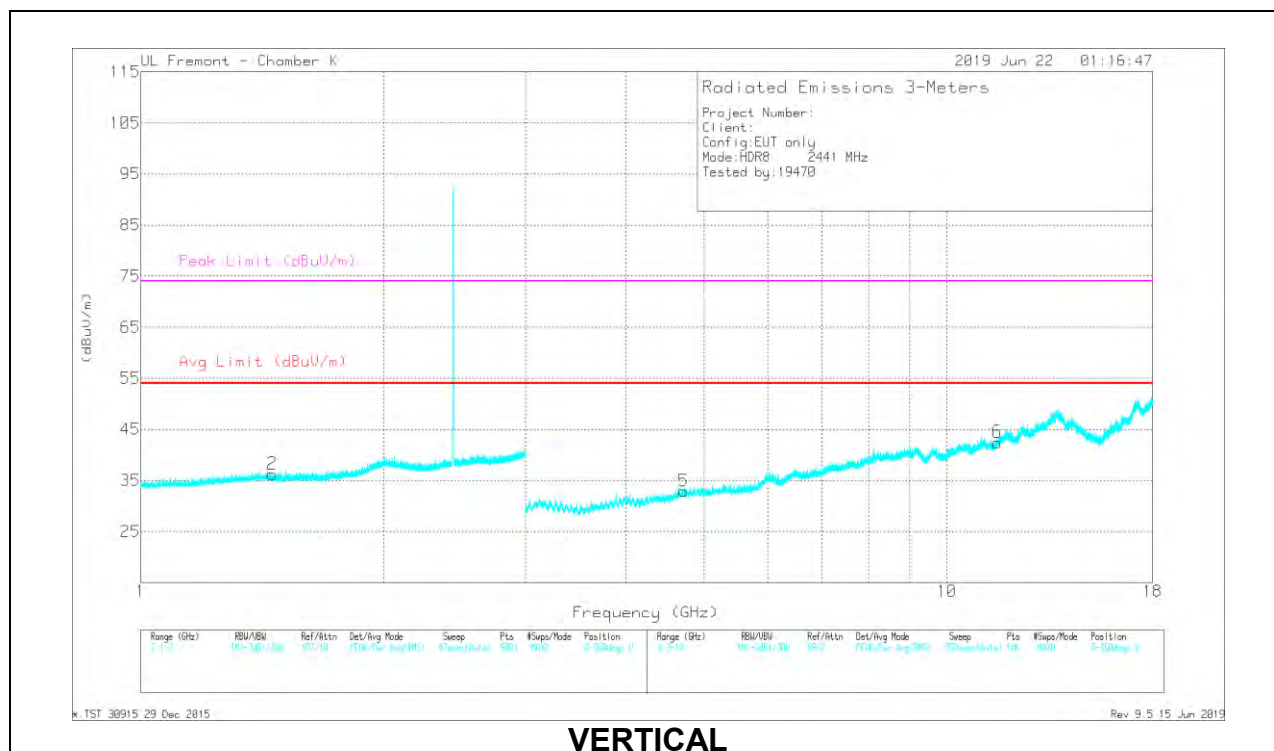
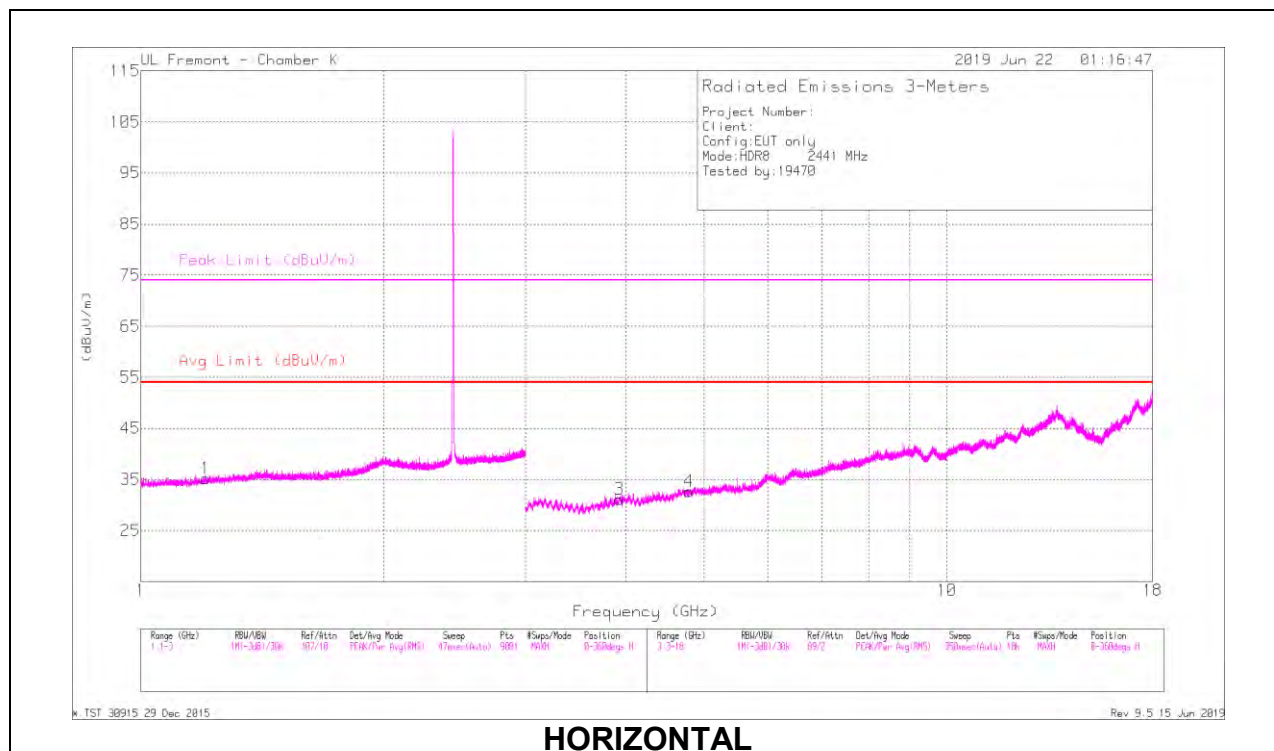
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.23412	42.9	PK2	24.3	-23.9	43.3	-	-	74	-30.7	201	173	H
	* 1.23367	32.72	MAv1	24.3	-23.9	33.12	54	-20.88	-	-	201	173	H
2	* 1.53379	42.68	PK2	24.7	-23.9	43.48	-	-	74	-30.52	166	196	V
	* 1.53318	33.14	MAv1	24.7	-23.9	33.94	54	-20.06	-	-	166	196	V
3	* 3.9326	39.81	PK2	31.5	-31.6	39.71	-	-	74	-34.29	189	219	H
	* 3.93302	29.39	MAv1	31.5	-31.6	29.29	54	-24.71	-	-	189	219	H
4	* 11.34185	32.38	PK2	39.2	-20.9	50.68	-	-	74	-23.32	177	200	H
	* 11.34194	21.32	MAv1	39.2	-20.9	39.62	54	-14.38	-	-	177	200	H
5	* 4.80293	38.85	PK2	33	-30.3	41.55	-	-	74	-32.45	197	189	V
	* 4.80236	28.23	MAv1	33	-30.3	30.93	54	-23.07	-	-	197	189	V
6	* 10.64285	32.4	PK2	39.1	-22	49.5	-	-	74	-24.5	190	223	V
	* 10.64467	23	MAv1	39.1	-22	40.1	54	-13.9	-	-	190	223	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

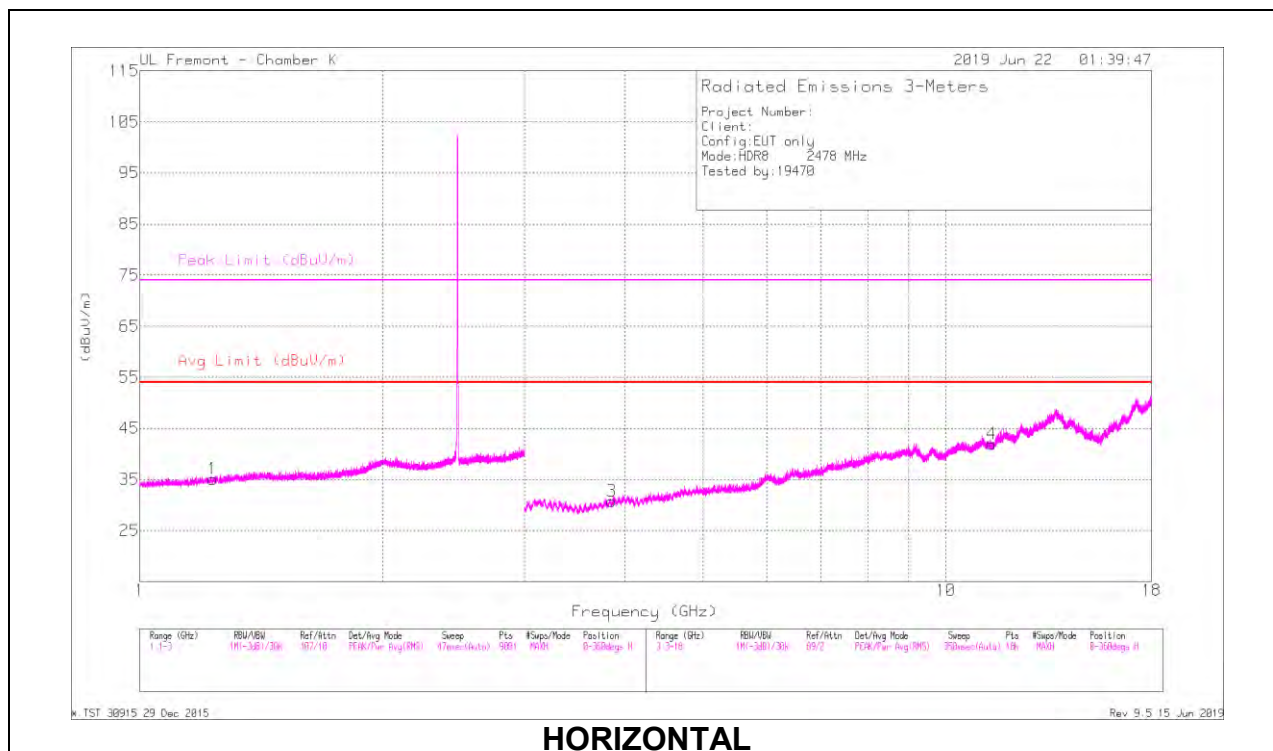
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.20404	43.21	PK2	24.1	-23.8	43.51	-	-	74	-30.49	209	182	H
	* 1.20371	33.05	MAv1	24.1	-23.9	33.25	54	-20.75	-	-	209	182	H
2	* 1.45545	43.23	PK2	24.7	-23.7	44.23	-	-	74	-29.77	177	188	V
	* 1.45338	33.05	MAv1	24.7	-23.7	34.05	54	-19.95	-	-	177	188	V
3	* 3.91994	39.8	PK2	31.4	-31.6	39.6	-	-	74	-34.4	191	160	H
	* 3.91988	29.47	MAv1	31.4	-31.6	29.27	54	-24.73	-	-	191	160	H
4	* 4.78711	38.23	PK2	32.9	-30.2	40.93	-	-	74	-33.07	217	184	H
	* 4.78793	27.79	MAv1	32.9	-30.2	30.49	54	-23.51	-	-	217	184	H
5	* 4.71609	38.47	PK2	32.7	-30.4	40.77	-	-	74	-33.23	159	167	V
	* 4.7156	28.59	MAv1	32.7	-30.4	30.89	54	-23.11	-	-	159	167	V
6	* 11.5539	31.58	PK2	39.5	-20.6	50.48	-	-	74	-23.52	217	185	V
	* 11.55258	22.02	MAv1	39.5	-20.6	40.92	54	-13.08	-	-	217	185	V

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

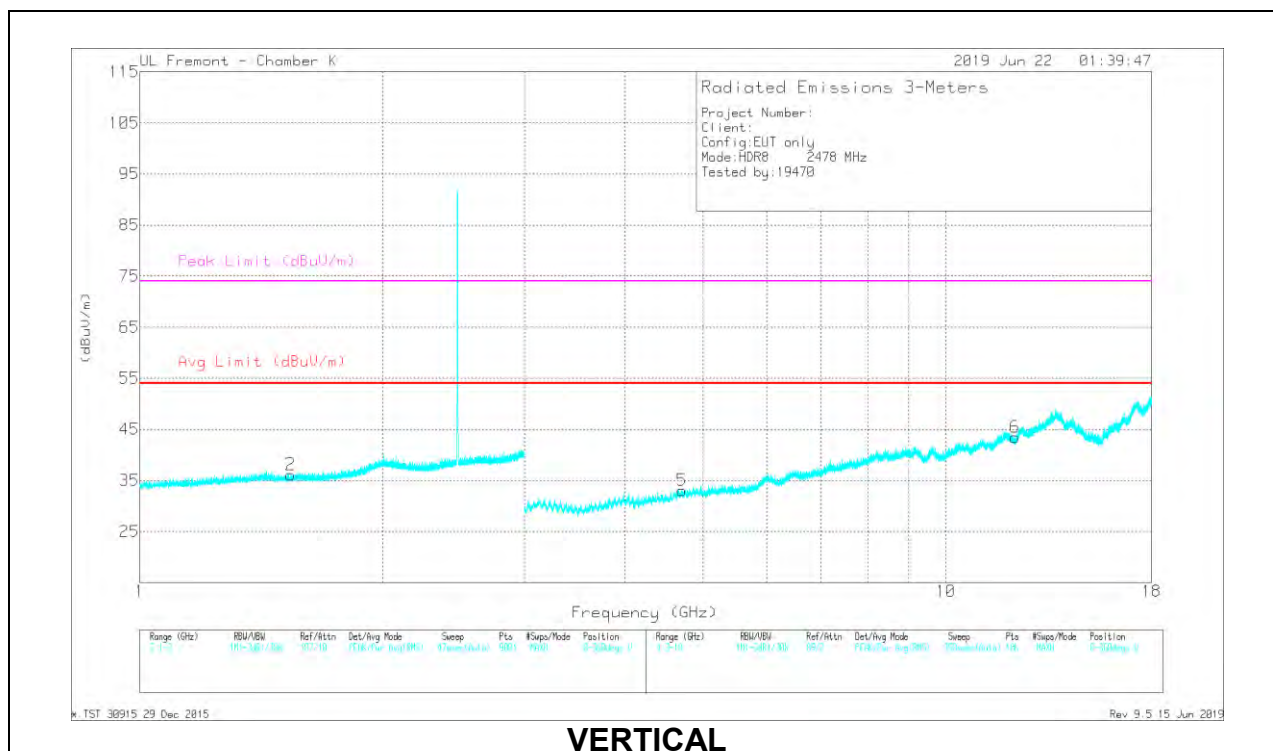
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/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	* 1.23317	42.4	PK2	24.3	-23.9	42.8	-	-	74	-31.2	156	121	H
	* 1.23059	32.87	MAv1	24.3	-23.9	33.27	54	-20.73	-	-	156	121	H
2	* 1.53974	43.85	PK2	24.7	-23.9	44.65	-	-	74	-29.35	181	163	V
	* 1.54044	33.19	MAv1	24.7	-23.9	33.99	54	-20.01	-	-	181	163	V
3	* 3.84621	38.87	PK2	31.1	-31.3	38.67	-	-	74	-35.33	168	146	H
	* 3.84617	29.07	MAv1	31.1	-31.3	28.87	54	-25.13	-	-	168	146	H
4	* 11.40074	31.23	PK2	39.3	-20.8	49.73	-	-	74	-24.27	210	181	H
	* 11.40318	21.48	MAv1	39.3	-20.8	39.98	54	-14.02	-	-	210	181	H
5	* 4.70542	39.34	PK2	32.7	-30.4	41.64	-	-	74	-32.36	195	203	V
	* 4.70668	28.82	MAv1	32.7	-30.4	31.12	54	-22.88	-	-	195	203	V
6	* 12.18714	30.6	PK2	40.5	-20.2	50.9	-	-	74	-23.1	219	188	V
	* 12.18541	20.45	MAv1	40.5	-20.2	40.75	54	-13.25	-	-	219	188	V

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

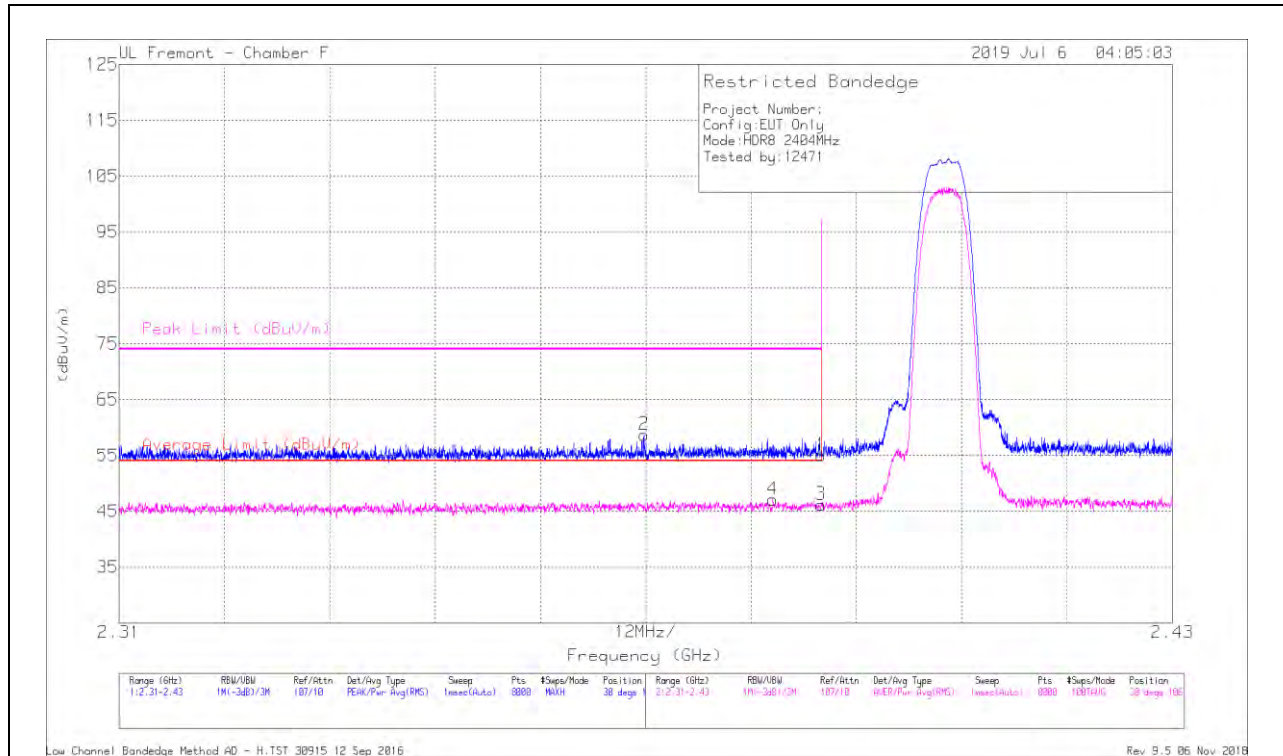
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



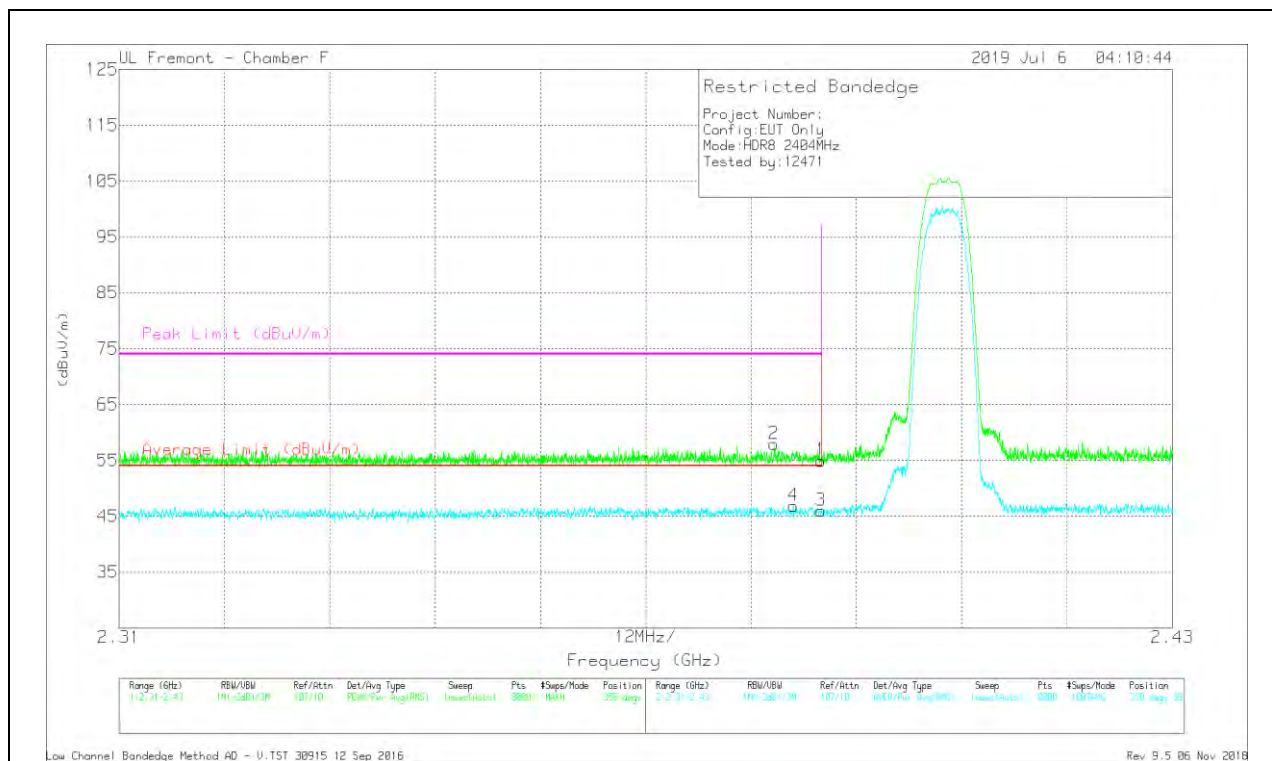
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.51	Pk	32	-14.5	55.01	-	-	74	-18.99	30	106	H
2	* 2.37	41.32	Pk	31.9	-14.5	58.72	-	-	74	-15.28	30	106	H
3	* 2.39	28.68	RMS	32	-14.5	46.18	54	-7.82	-	-	30	106	H
4	* 2.384	29.66	RMS	31.9	-14.5	47.06	54	-6.94	-	-	30	106	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 T345 (dB/m)	Amp/Cbl/Fitr /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	37.46	Pk	32	-14.5	54.96	-	-	74	-19.04	359	397	V
2	* 2.385	40.52	Pk	31.9	-14.5	57.92	-	-	74	-16.08	359	397	V
3	* 2.39	28.49	RMS	32	-14.5	45.99	54	-8.01	-	-	359	397	V
4	* 2.387	29.46	RMS	31.9	-14.5	46.86	54	-7.14	-	-	359	397	V

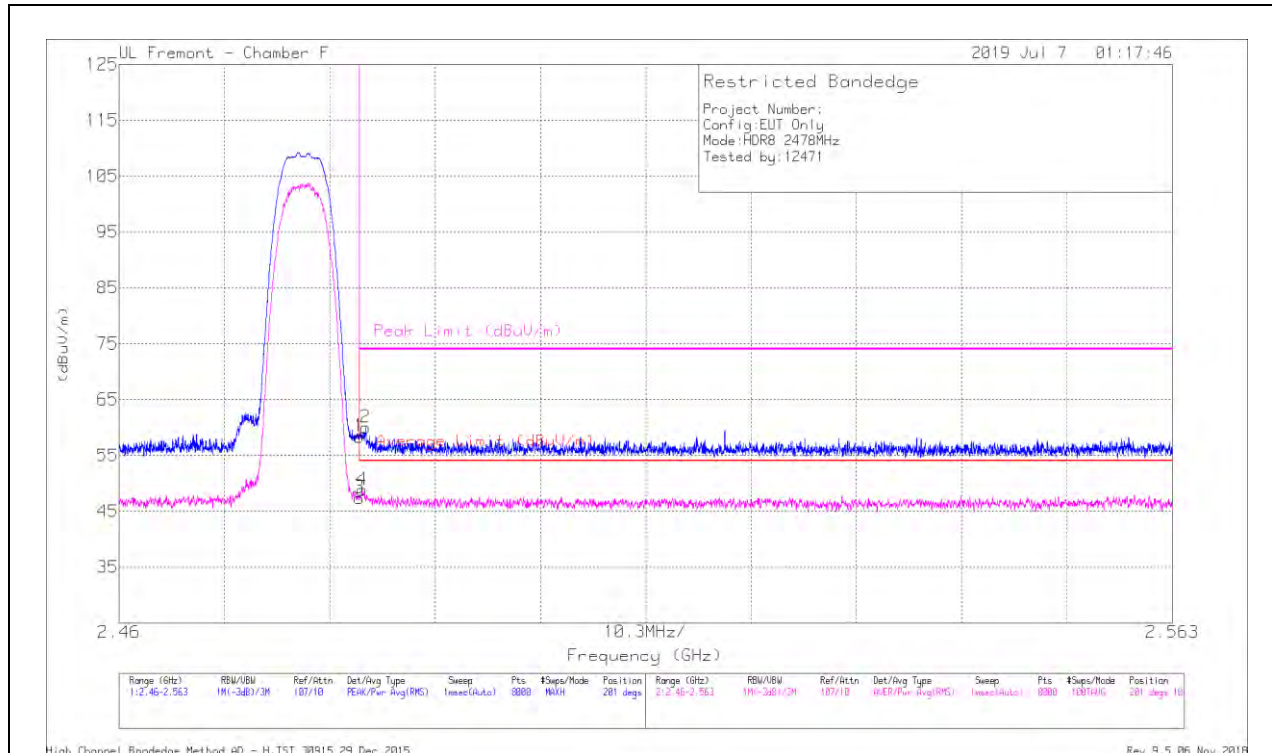
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



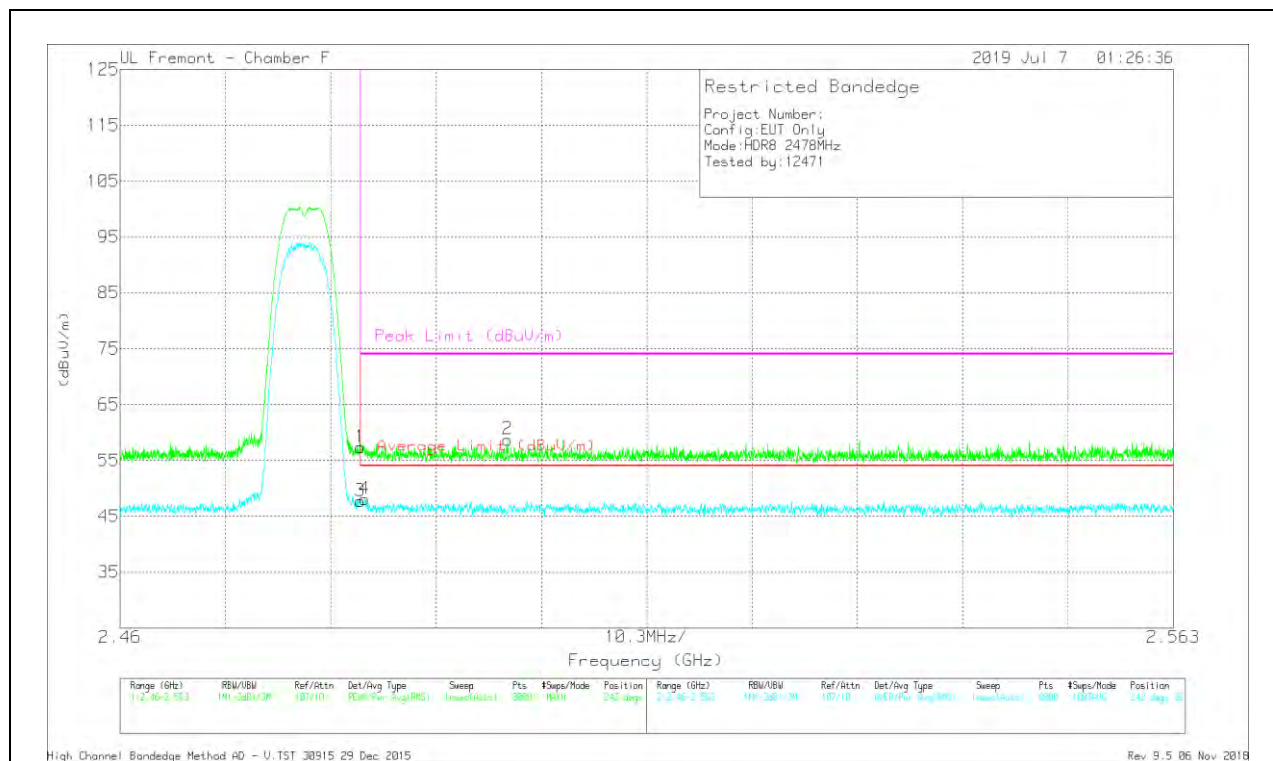
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.67	Pk	32.4	-14.7	58.37	-	-	74	-15.63	201	104	H
2	* 2.484	42.31	Pk	32.4	-14.7	60.01	-	-	74	-13.99	201	104	H
3	* 2.484	29.7	RMS	32.4	-14.7	47.4	54	-6.6	-	-	201	104	H
4	* 2.484	31.11	RMS	32.4	-14.7	48.81	54	-5.19	-	-	201	104	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 T345 (dB/m)	Amp/Cbl/Fitr /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	39.62	Pk	32.4	-14.7	57.32	-	-	74	-16.68	242	367	V
2	* 2.498	41.03	Pk	32.4	-14.7	58.73	-	-	74	-15.27	242	367	V
3	* 2.484	29.99	RMS	32.4	-14.7	47.69	54	-6.31	-	-	242	367	V
4	* 2.484	30.38	RMS	32.4	-14.7	48.08	54	-5.92	-	-	242	367	V

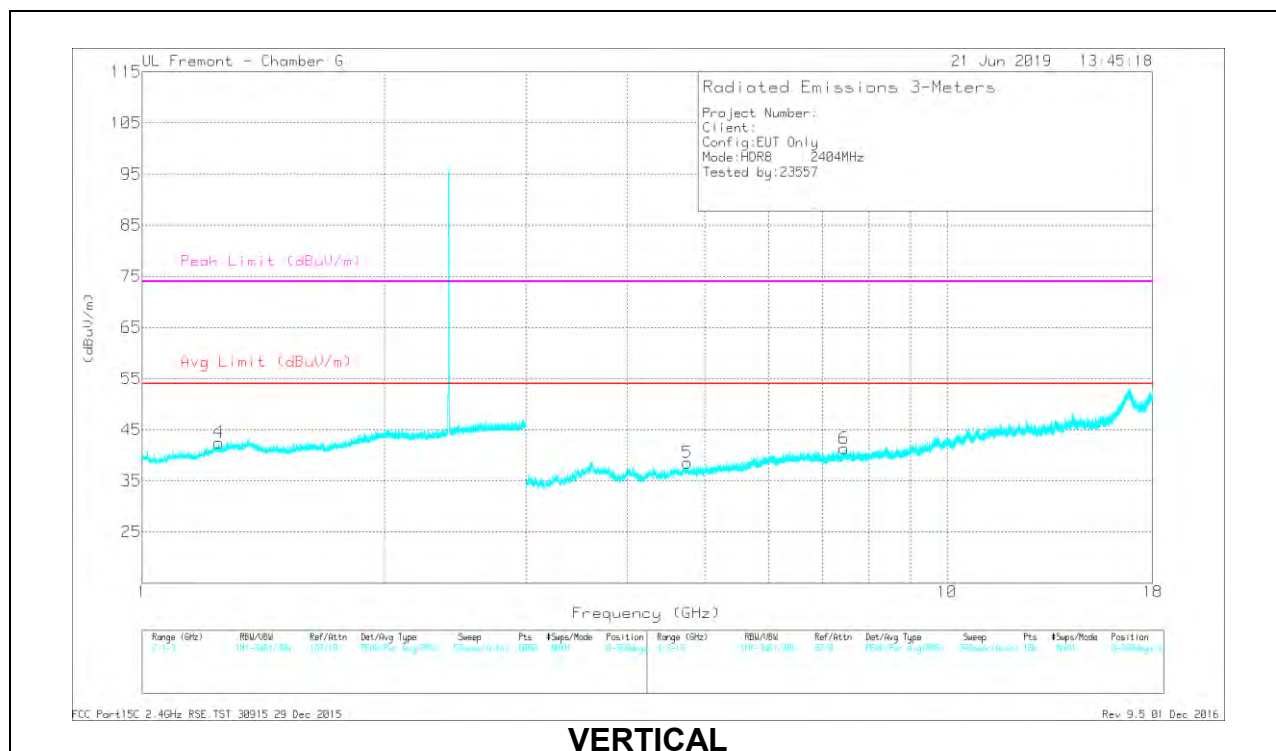
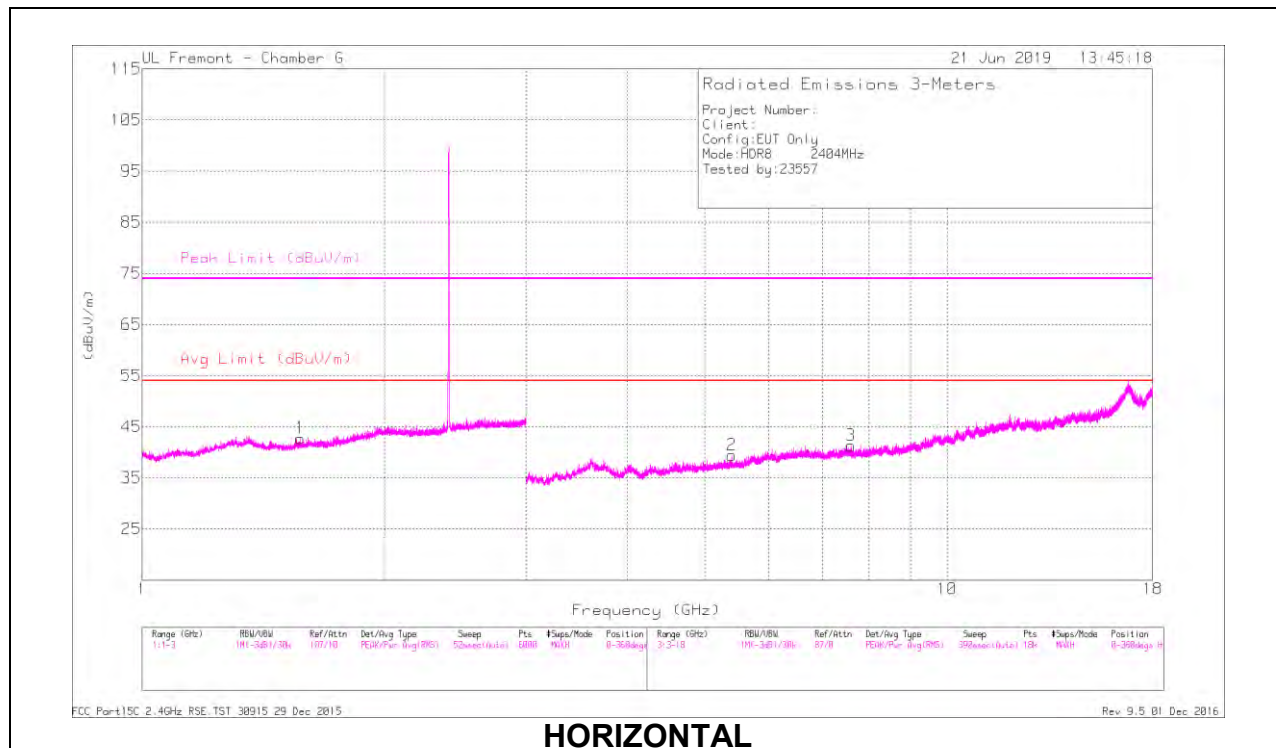
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

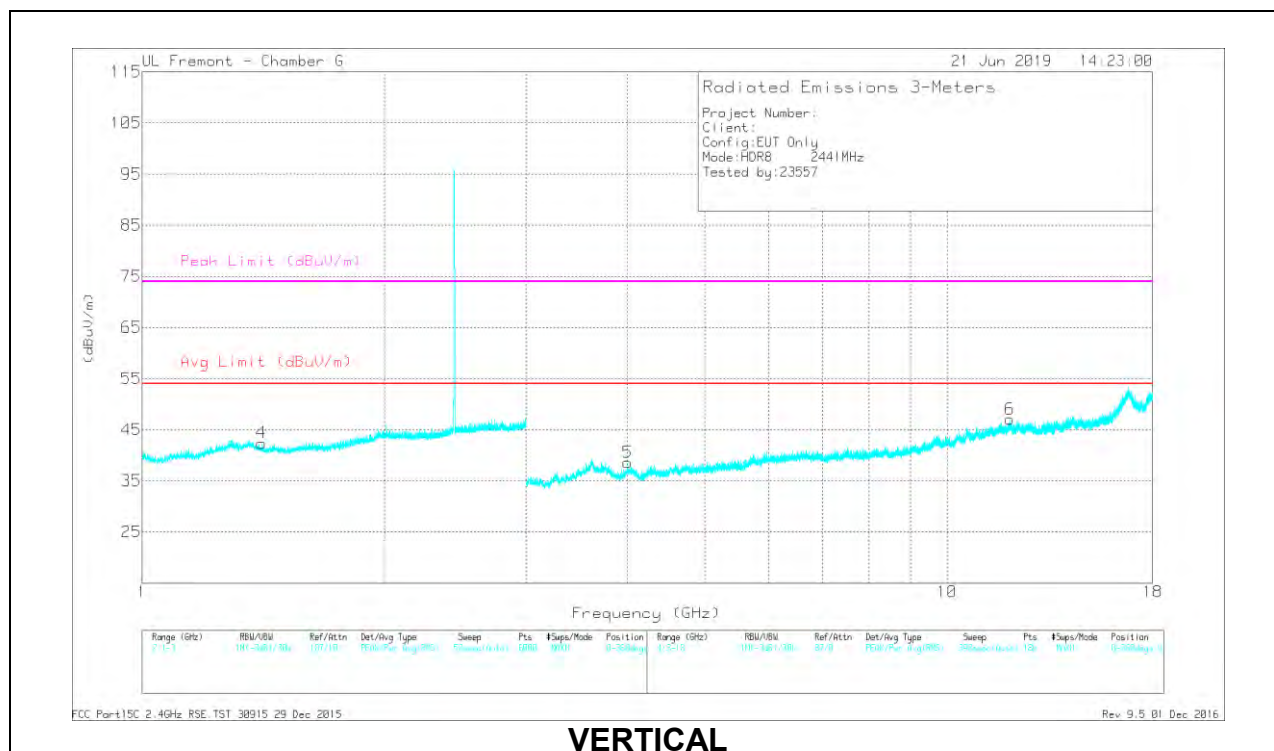
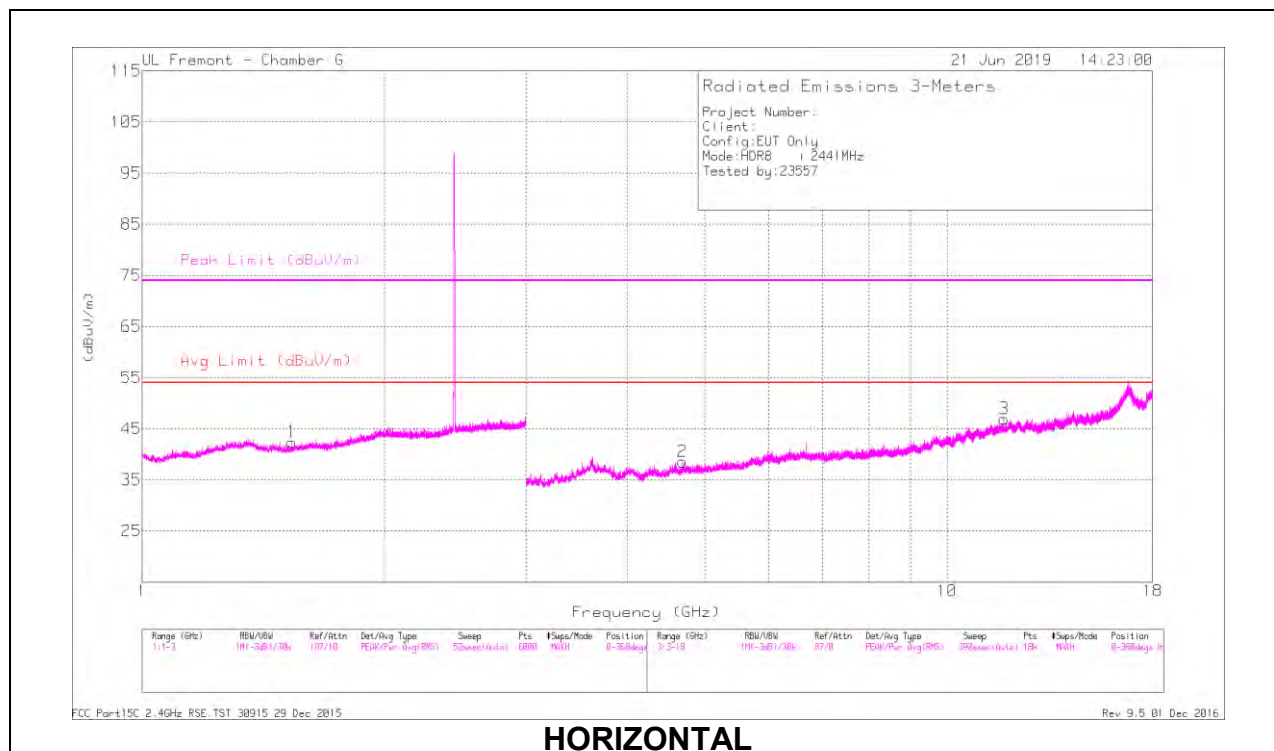
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.573	42.98	PK2	27.9	-21.4	49.48	-	-	74	-24.52	188	301	H
1	* 1.572	30.99	MAv1	27.9	-21.4	37.49	54	-16.51	-	-	188	301	H
	* 1.244	44.32	PK2	29.2	-23.7	49.82	-	-	74	-24.18	55	150	V
4	* 1.244	32.22	MAv1	29.1	-23.7	37.62	54	-16.38	-	-	55	150	V
	* 5.401	39.7	PK2	34.7	-29.1	45.3	-	-	74	-28.7	342	212	H
2	* 5.4	28.07	MAv1	34.7	-29.1	33.67	54	-20.33	-	-	342	212	H
	* 7.6	38.87	PK2	36	-27.2	47.67	-	-	74	-26.33	144	331	H
3	* 7.599	26.79	MAv1	36	-27.2	35.59	54	-18.41	-	-	144	331	H
	* 4.757	39.78	PK2	34.3	-29.6	44.48	-	-	74	-29.52	276	120	V
5	* 4.758	28.45	MAv1	34.3	-29.5	33.25	54	-20.75	-	-	276	120	V
	* 7.447	39.54	PK2	35.9	-27.7	47.74	-	-	74	-26.26	30	203	V
6	* 7.447	27.73	MAv1	35.9	-27.7	35.93	54	-18.07	-	-	30	203	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

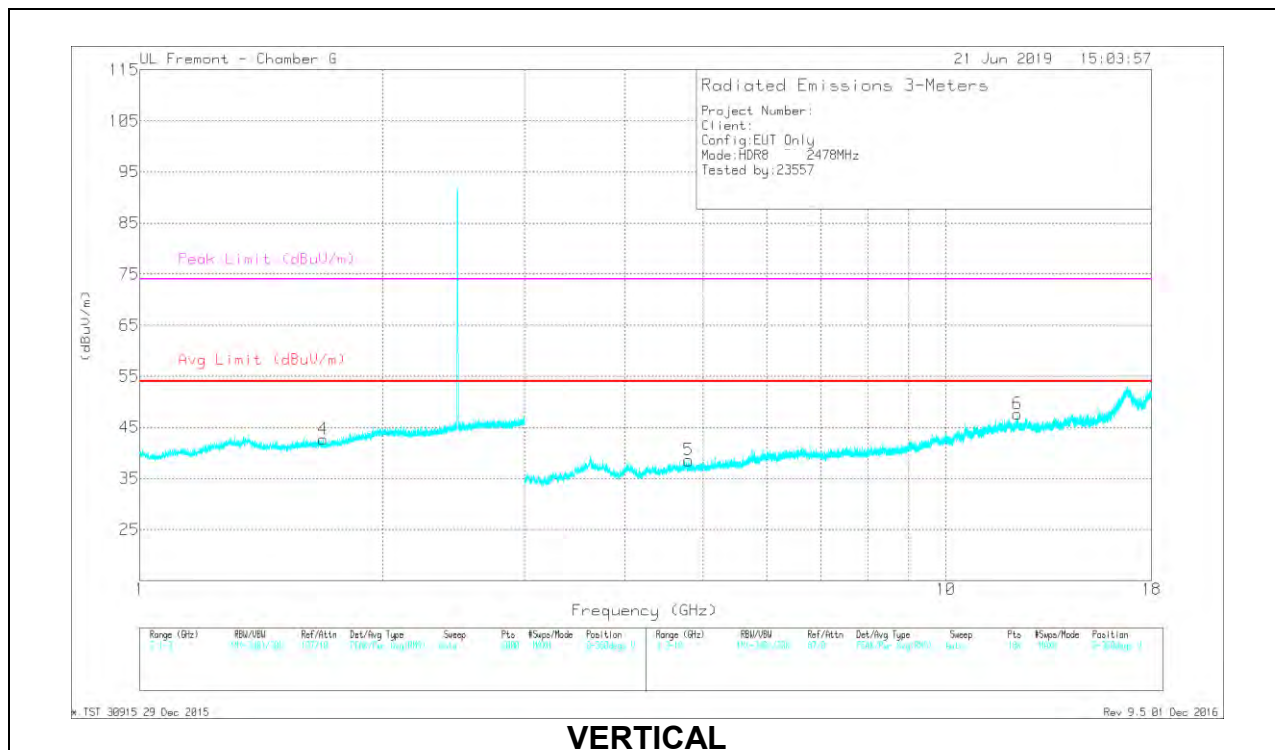
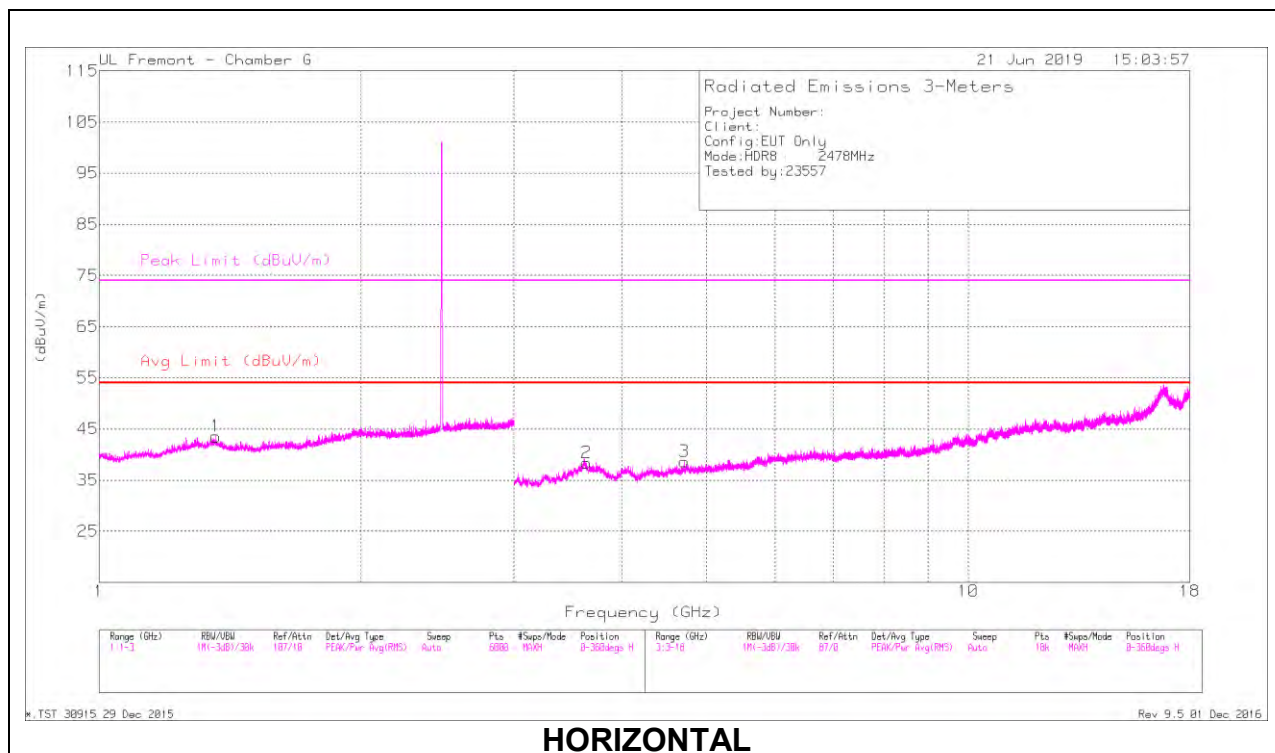
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.535	43.16	PK2	27.8	-21.7	49.26	-	-	74	-24.74	274	109	H
1	* 1.531	30.89	MAv1	27.7	-21.7	36.89	54	-17.11	-	-	274	109	H
	* 1.407	43.16	PK2	28.8	-22.9	49.06	-	-	74	-24.94	124	168	V
4	* 1.408	31.7	MAv1	28.8	-22.9	37.6	54	-16.4	-	-	124	168	V
	* 4.695	40.08	PK2	34.2	-29.5	44.78	-	-	74	-29.22	5	191	H
2	* 4.692	28.44	MAv1	34.2	-29.6	33.04	54	-20.96	-	-	5	191	H
	* 11.771	37.4	PK2	39.4	-23.3	53.5	-	-	74	-20.5	137	157	H
3	* 11.771	25.06	MAv1	39.4	-23.3	41.16	54	-12.84	-	-	137	157	H
	* 4.01	39.95	PK2	33.6	-29.1	44.45	-	-	74	-29.55	313	244	V
5	* 4.01	28.61	MAv1	33.6	-29.1	33.11	54	-20.89	-	-	313	244	V
	* 11.973	35.81	PK2	39.5	-22.1	53.21	-	-	74	-20.79	23	208	V
6	* 11.973	24.37	MAv1	39.5	-22.1	41.77	54	-12.23	-	-	23	208	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.363	44.24	PK2	30	-23.2	51.04	-	-	74	-22.96	253	287	H
1	* 1.365	31.97	MAv1	30	-23.2	38.77	54	-15.23	-	-	253	287	H
	* 1.685	43.56	PK2	28.3	-21.6	50.26	-	-	74	-23.74	217	152	V
4	* 1.687	31.68	MAv1	28.3	-21.6	38.38	54	-15.62	-	-	217	152	V
	* 3.639	40.5	PK2	34.7	-29.5	45.7	-	-	74	-28.3	35	176	H
2	* 3.637	28.35	MAv1	34.7	-29.5	33.55	54	-20.45	-	-	35	176	H
	* 4.709	40.97	PK2	34.3	-29.5	45.77	-	-	74	-28.23	57	148	H
3	* 4.71	28.9	MAv1	34.3	-29.5	33.7	54	-20.3	-	-	57	148	H
	* 4.802	40.23	PK2	34.3	-29.7	44.83	-	-	74	-29.17	142	382	V
5	* 4.8	28.34	MAv1	34.3	-29.7	32.94	54	-21.06	-	-	142	382	V
	* 12.277	36.21	PK2	39.4	-22.2	53.41	-	-	74	-20.59	306	392	V
6	* 12.276	24.62	MAv1	39.4	-22.2	41.82	54	-12.18	-	-	306	392	V

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

PK2 - KDB558074 Method: Maximum Peak

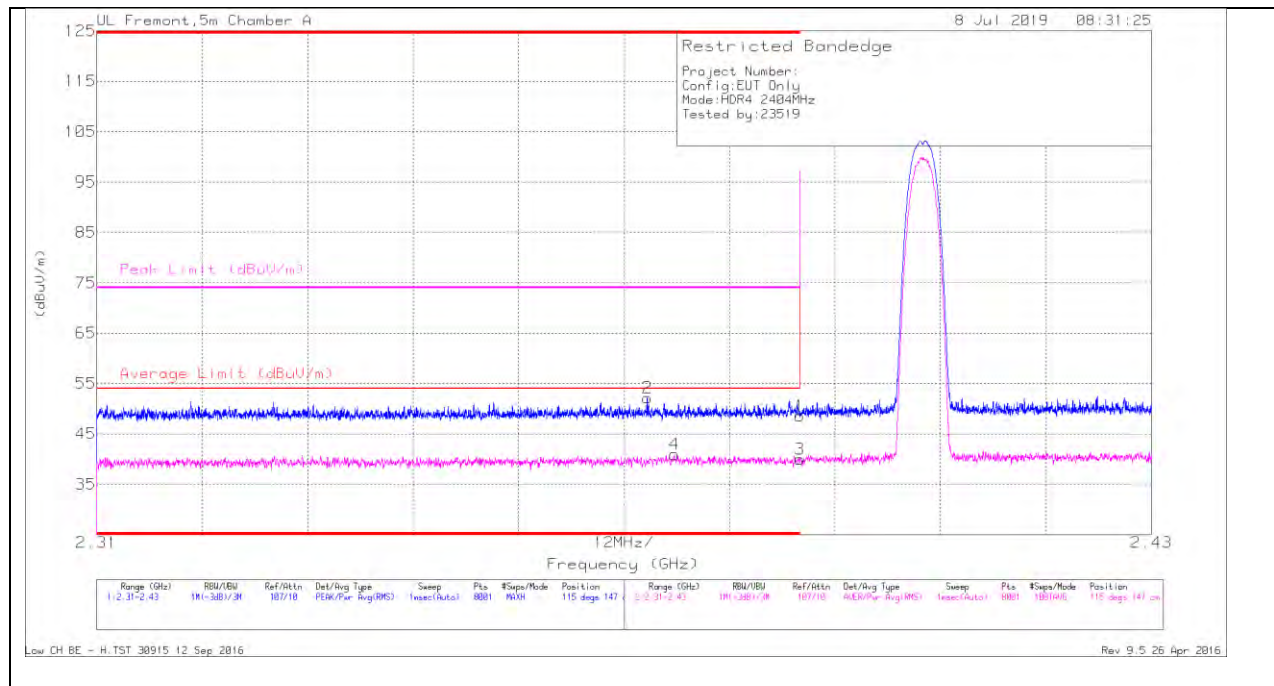
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.3. LOW POWER HDR (HDR4)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	38.62	Pk	32.2	-22.3	48.52	-	-	74	-25.48	115	147	H
2	* 2.373	42.33	Pk	32.2	-22.4	52.13	-	-	74	-21.87	115	147	H
3	* 2.39	30.13	RMS	32.2	-22.3	40.03	54	-13.97	-	-	115	147	H
4	* 2.376	31.02	RMS	32.2	-22.3	40.92	54	-13.08	-	-	115	147	H

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

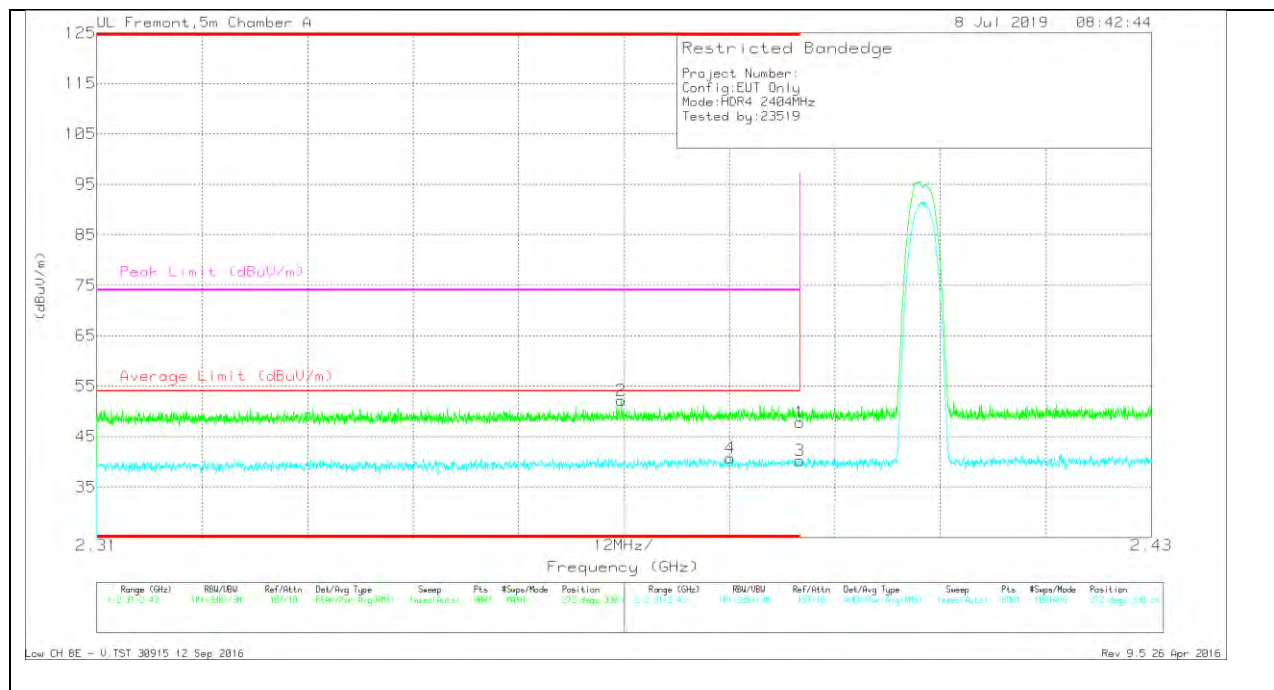
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (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	* 2.39	37.91	Pk	32.2	-22.3	47.81	-	-	74	-26.19	272	330	V
2	* 2.37	42.5	Pk	32.1	-22.4	52.2	-	-	74	-21.8	272	330	V
3	* 2.39	30.34	RMS	32.2	-22.3	40.24	54	-13.76	-	-	272	330	V
4	* 2.382	30.98	RMS	32.2	-22.4	40.78	54	-13.22	-	-	272	330	V

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

Pk - Peak detector

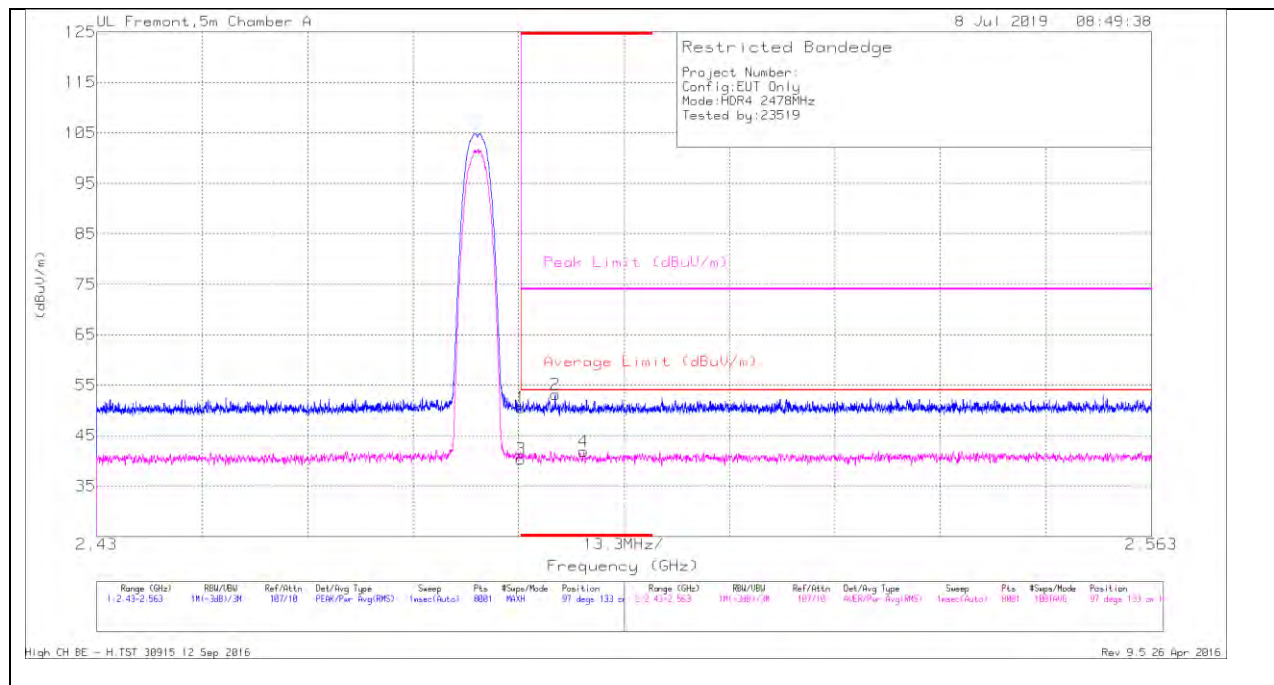
RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.484	39.99	Pk	32.6	-22.1	50.49	-	-	74	-23.51	97	133	H
2	* 2.488	42.68	Pk	32.6	-22.1	53.18	-	-	74	-20.82	97	133	H
3	* 2.484	29.9	RMS	32.6	-22.1	40.4	54	-13.6	-	-	97	133	H
4	* 2.491	31.4	RMS	32.6	-22.1	41.9	54	-12.1	-	-	97	133	H

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

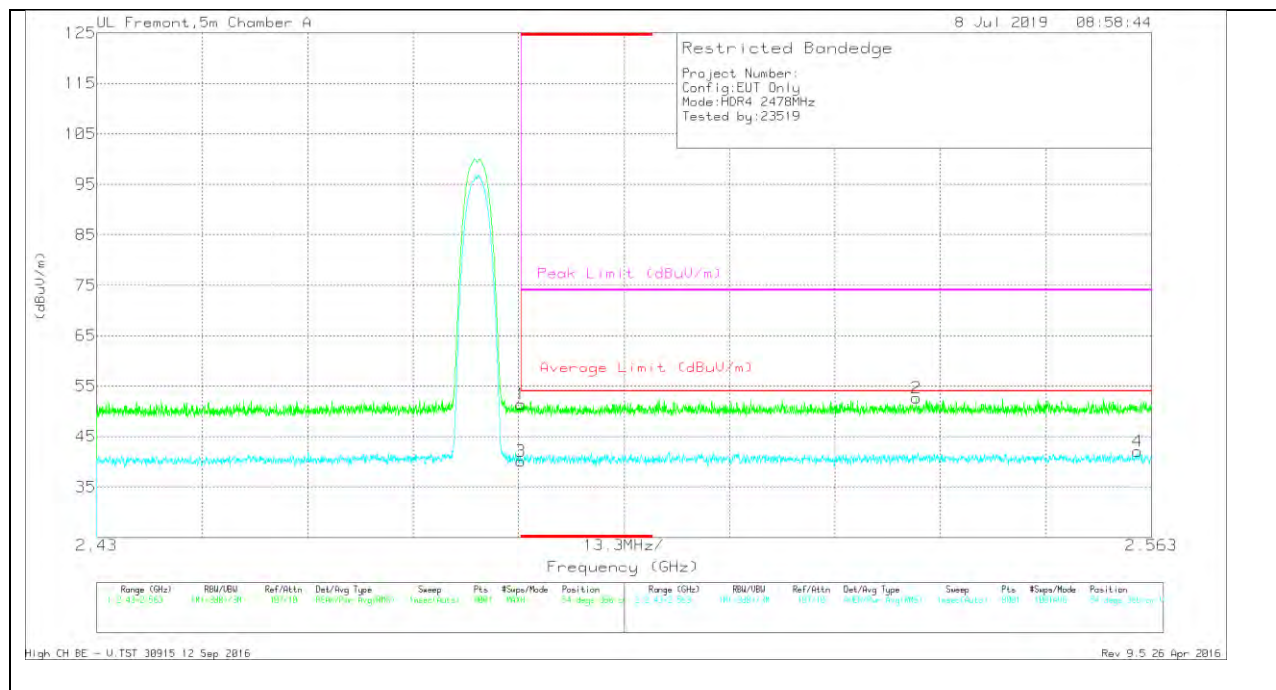
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.484	40.9	Pk	32.6	-22.1	51.4	-	-	74	-22.6	54	366	V
3	* 2.484	29.66	RMS	32.6	-22.1	40.16	54	-13.84	-	-	54	366	V
2	2.533	41.83	Pk	32.6	-21.8	52.63	-	-	74	-21.37	54	366	V
4	2.561	31.24	RMS	32.6	-21.7	42.14	54	-11.86	-	-	54	366	V

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

Pk - Peak detector

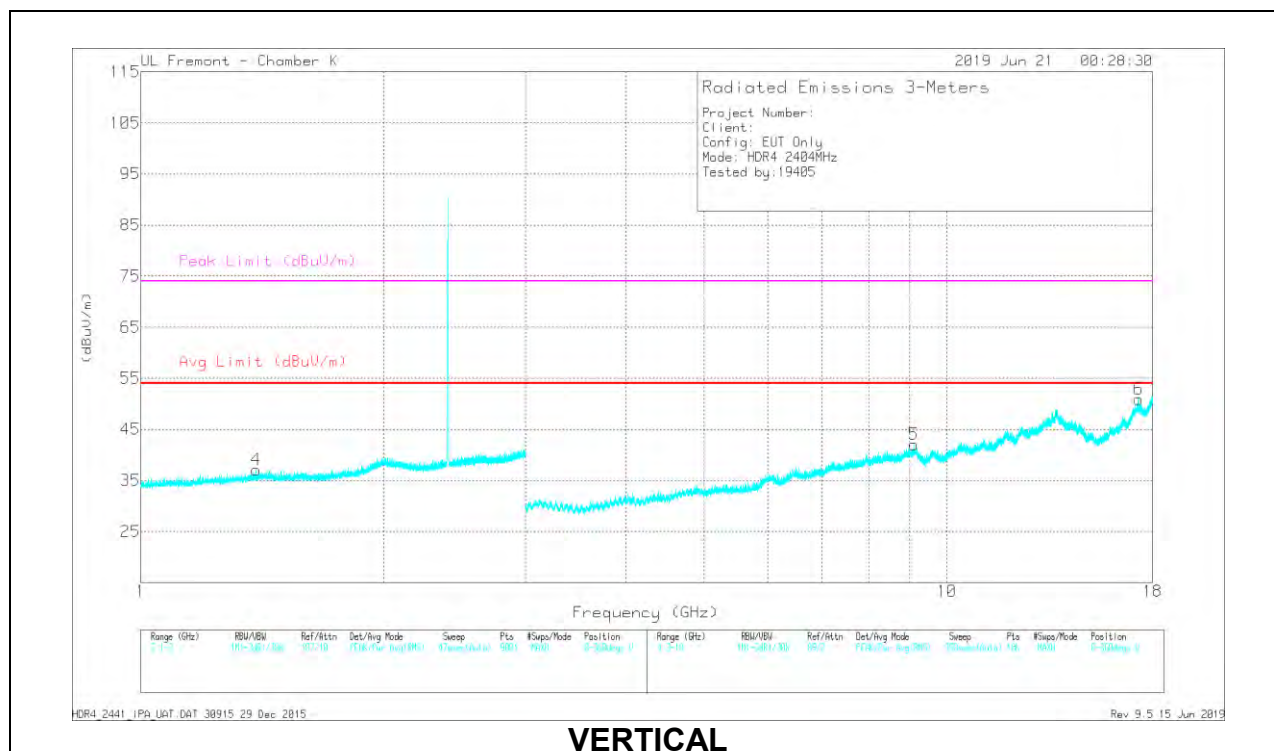
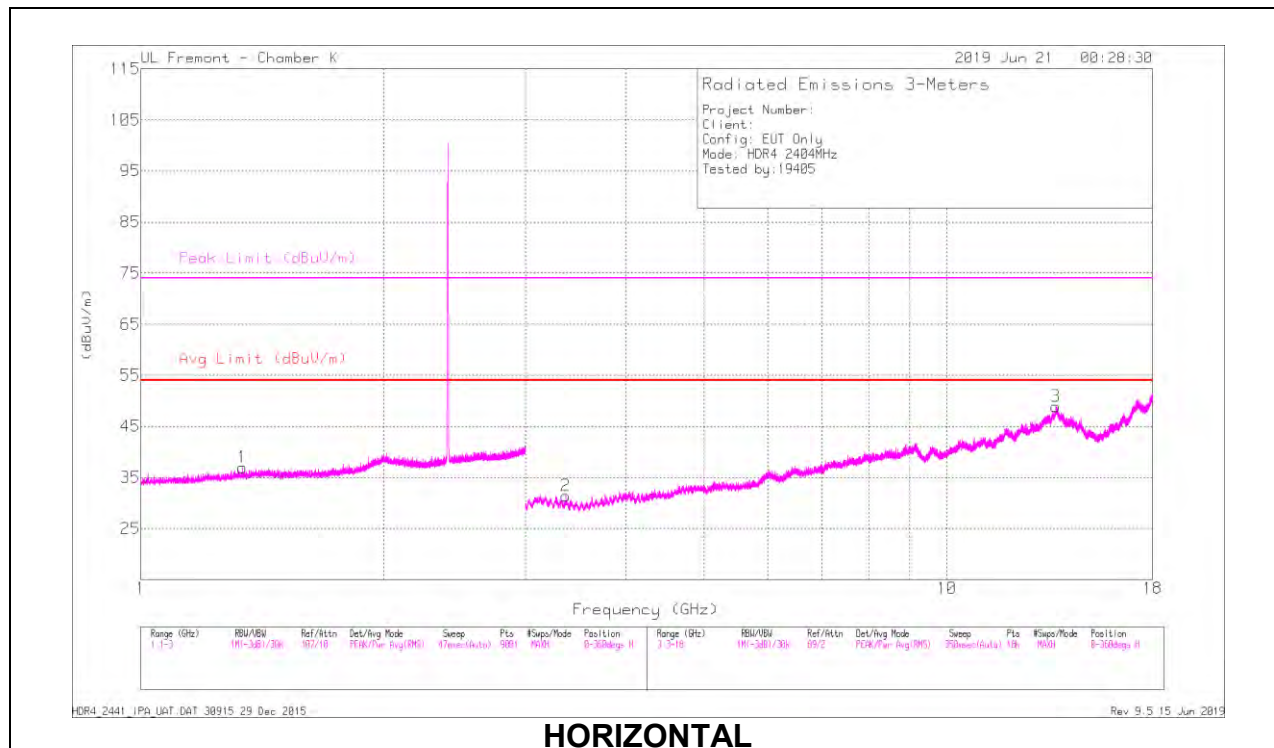
RMS - RMS detection

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

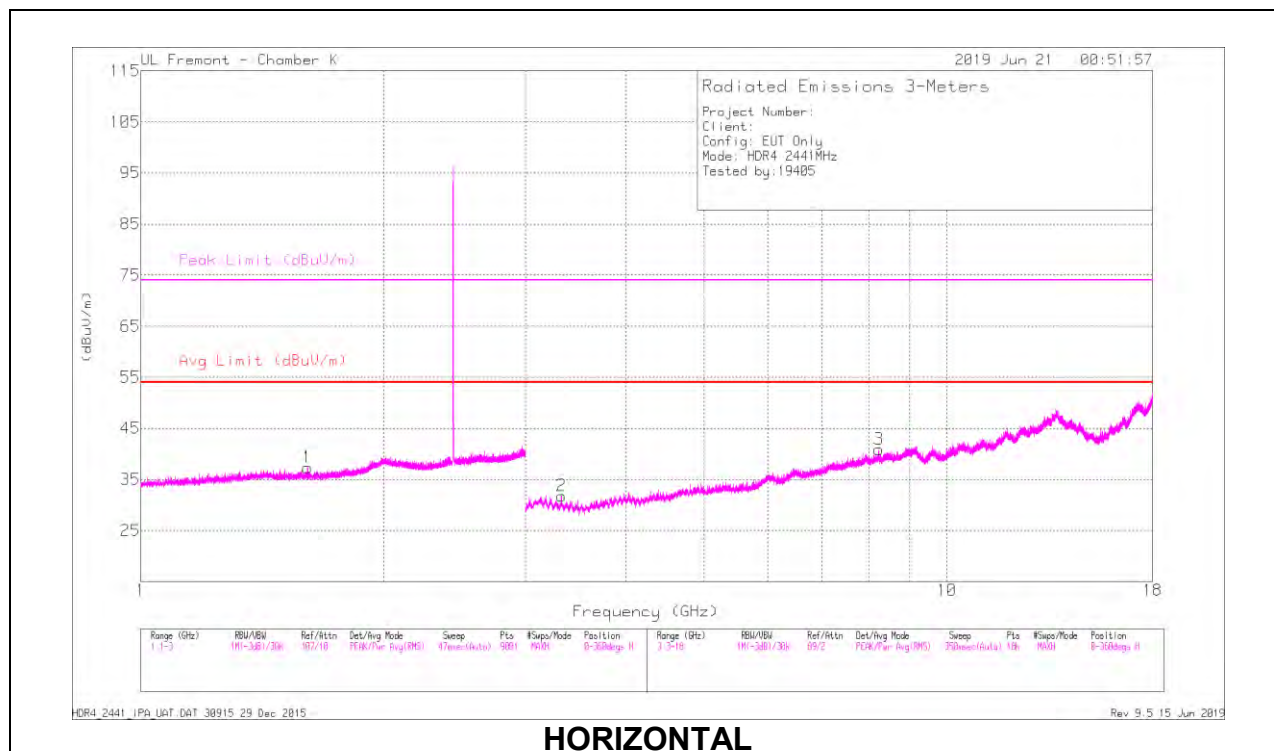
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.3364	43.55	PK2	24.5	-23.9	44.15	-	-	74	-29.85	166	363	H
	* 1.338	33.44	MAv1	24.5	-24	33.94	54	-20.06	-	-	166	363	H
4	* 1.38778	44.03	PK2	24.7	-23.8	44.93	-	-	74	-29.07	21	368	V
	* 1.38993	33.51	MAv1	24.7	-23.8	34.41	54	-19.59	-	-	21	368	V
2	3.36963	41.85	PK2	30.2	-32.9	39.15	-	-	74	-34.85	56	338	H
3	13.64926	31.01	PK2	43.1	-18.5	55.61	-	-	74	-18.39	135	224	H
5	* 9.10176	34.63	PK2	38.7	-23.4	49.93	-	-	74	-24.07	240	202	V
	* 9.10144	23.65	MAv1	38.7	-23.4	38.95	54	-15.05	-	-	240	202	V
6	17.29219	31.38	PK2	43.2	-15.9	58.68	-	-	74	-15.32	352	185	V

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

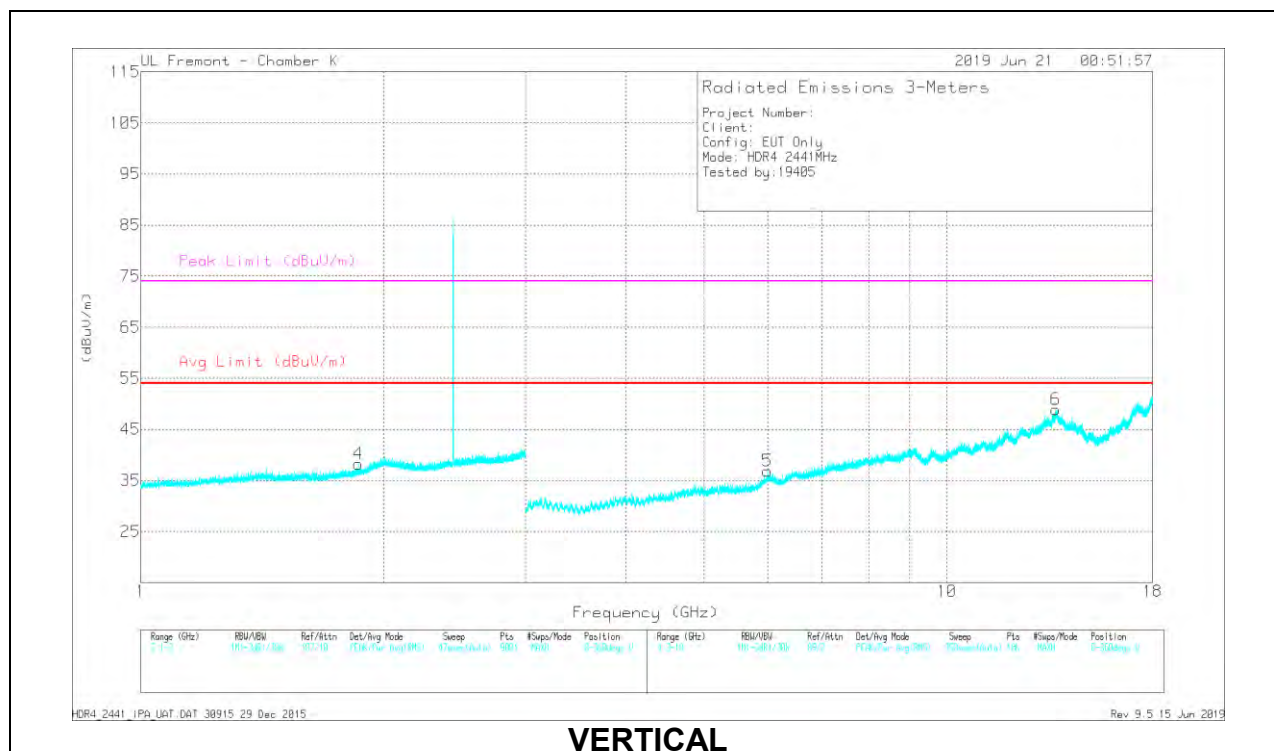
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/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	* 1.60844	43.08	PK2	24.9	-24	43.98	-	-	74	-30.02	196	204	H
	* 1.61123	33.27	MAv1	24.9	-24.1	34.07	54	-19.93	-	-	196	204	H
4	1.86179	42.5	PK2	26	-24.1	44.4	-	-	-	-	45	375	V
2	3.32533	41.17	PK2	30.4	-32.7	38.87	-	-	-	-	129	333	H
3	* 8.23312	34.95	PK2	38	-24.8	48.15	-	-	74	-25.85	305	164	H
	* 8.23174	25.06	MAv1	38	-24.8	38.26	54	-15.74	-	-	305	164	H
5	5.99271	36.64	PK2	35	-27.5	44.14	-	-	74	-29.86	355	147	V
6	13.66168	31.52	PK2	43.1	-18.6	56.02	-	-	74	-17.98	335	340	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/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	1.77471	42.95	PK2	25.5	-24.2	44.25	-	-	74	-29.75	167	184	V
1	3.22798	41.24	PK2	30.7	-32.8	39.14	-	-	74	-34.86	76	151	H
2	6.743	35.79	PK2	35.7	-26.7	44.79	-	-	74	-29.21	198	281	H
3	13.6561	31.2	PK2	43.1	-18.6	55.7	-	-	74	-18.30	283	181	H
5	* 3.77902	40.84	PK2	30.7	-31.6	39.94	-	-	74	-34.06	357	193	V
	* 3.77554	30.16	MAv1	30.6	-31.6	29.16	54	-24.84	-	-	357	193	V
6	* 12.05927	31.38	PK2	40.2	-20.1	51.48	-	-	74	-22.52	80	169	V
	* 12.05601	20.95	MAv1	40.2	-20.1	41.05	54	-12.95	-	-	80	169	V

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

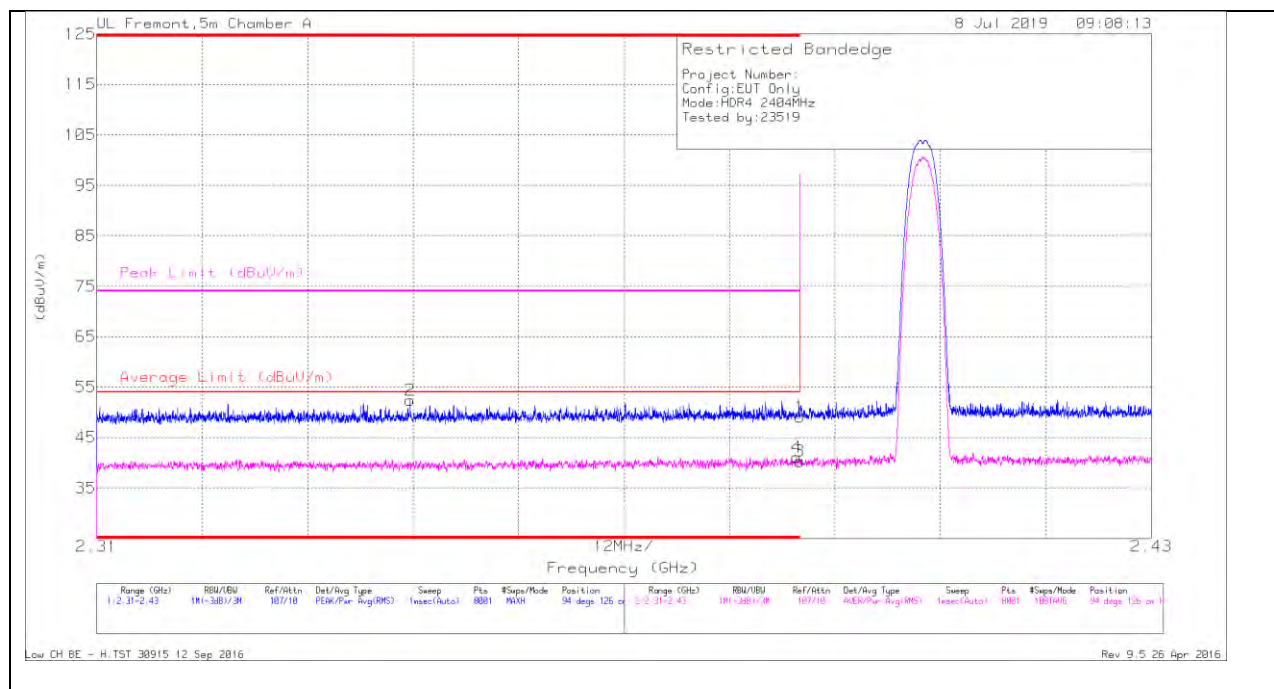
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	39.14	Pk	32.2	-22.3	49.04	-	-	74	-24.96	94	126	H
2	* 2.346	42.86	Pk	31.9	-22.4	52.36	-	-	74	-21.64	94	126	H
3	* 2.39	30.4	RMS	32.2	-22.3	40.3	54	-13.7	-	-	94	126	H
4	* 2.39	31.2	RMS	32.2	-22.3	41.1	54	-12.9	-	-	94	126	H

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

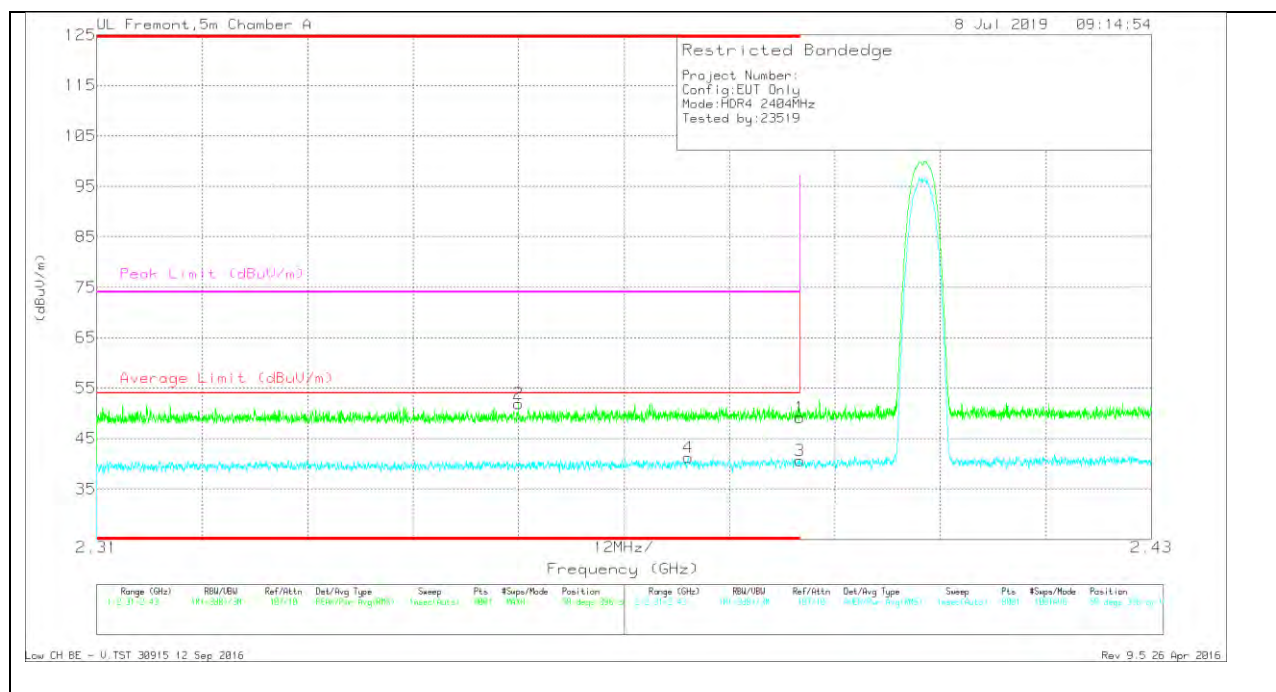
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	39.32	Pk	32.2	-22.3	49.22	-	-	74	-24.78	58	396	V
2	* 2.358	42.3	Pk	32	-22.4	51.9	-	-	74	-22.1	58	396	V
3	* 2.39	30.71	RMS	32.2	-22.3	40.61	54	-13.39	-	-	58	396	V
4	* 2.377	31.32	RMS	32.2	-22.3	41.22	54	-12.78	-	-	58	396	V

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

Pk - Peak detector

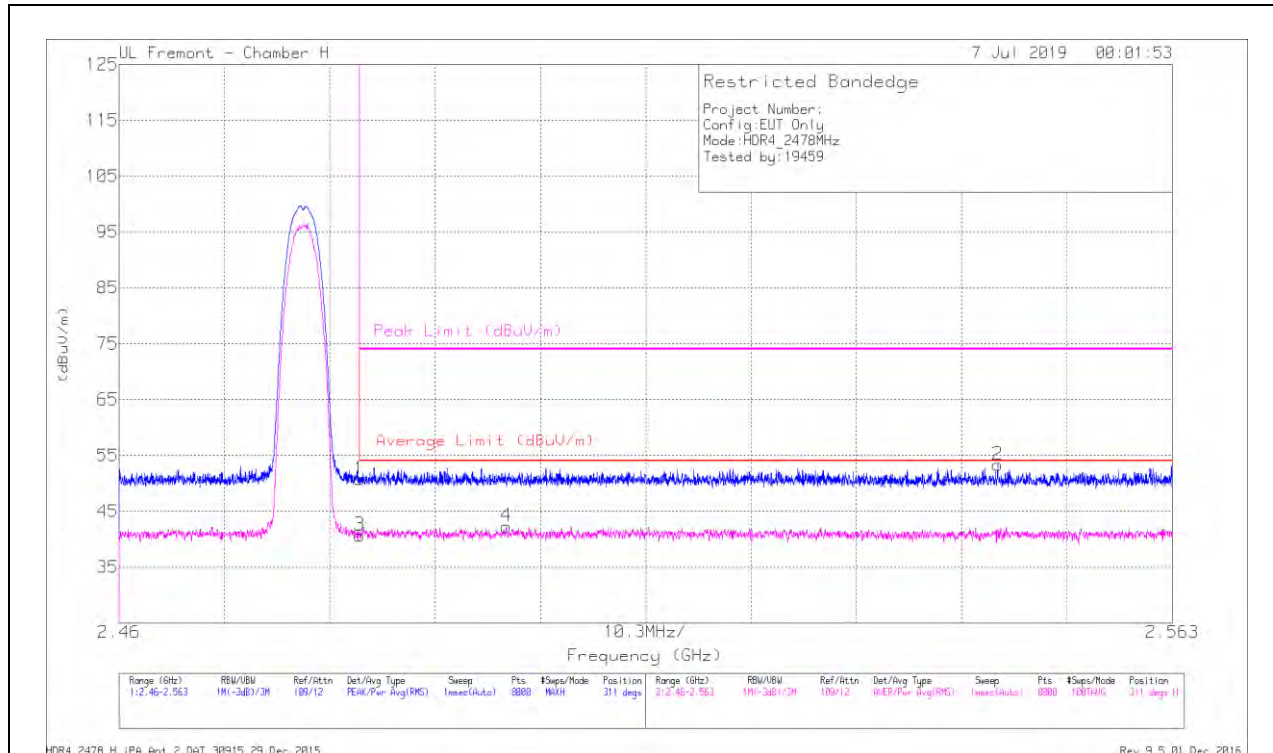
RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

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BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



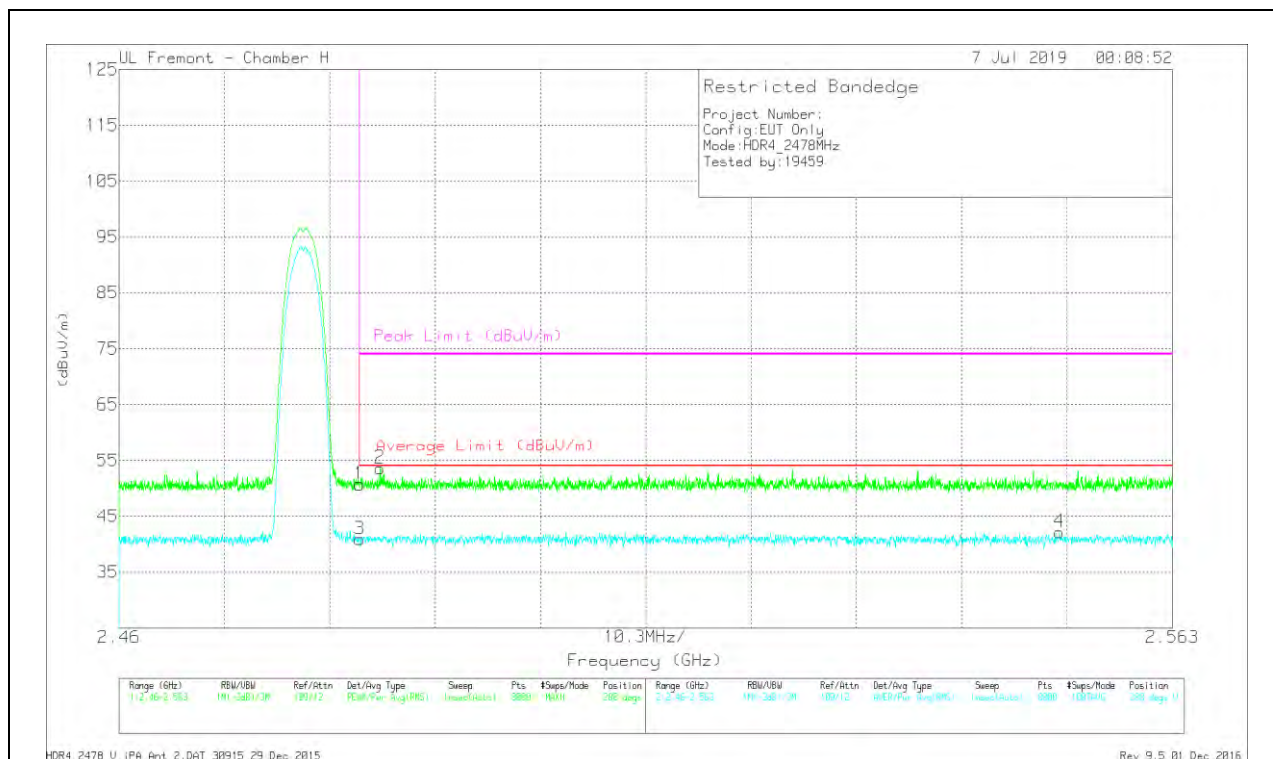
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.35	Pk	32.3	-18.9	50.75	-	-	74	-23.25	311	115	H
3	* 2.484	27.31	RMS	32.3	-18.9	40.71	54	-13.29	-	-	311	115	H
4	* 2.498	28.8	RMS	32.4	-18.9	42.3	54	-11.7	-	-	311	115	H
2	2.546	39.93	Pk	32.3	-18.9	53.33	-	-	74	-20.67	311	115	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 T344 (dBm)	Amp/Cbl/FiltriP 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	* 2.484	37.33	Pk	32.3	-18.9	50.73	-	-	74	-23.27	288	362	V
2	* 2.486	40.2	Pk	32.3	-18.9	53.6	-	-	74	-20.4	288	362	V
3	* 2.484	27.48	RMS	32.3	-18.9	40.88	54	-13.12	-	-	288	362	V
4	2.552	28.76	RMS	32.3	-18.9	42.16	54	-11.84	-	-	288	362	V

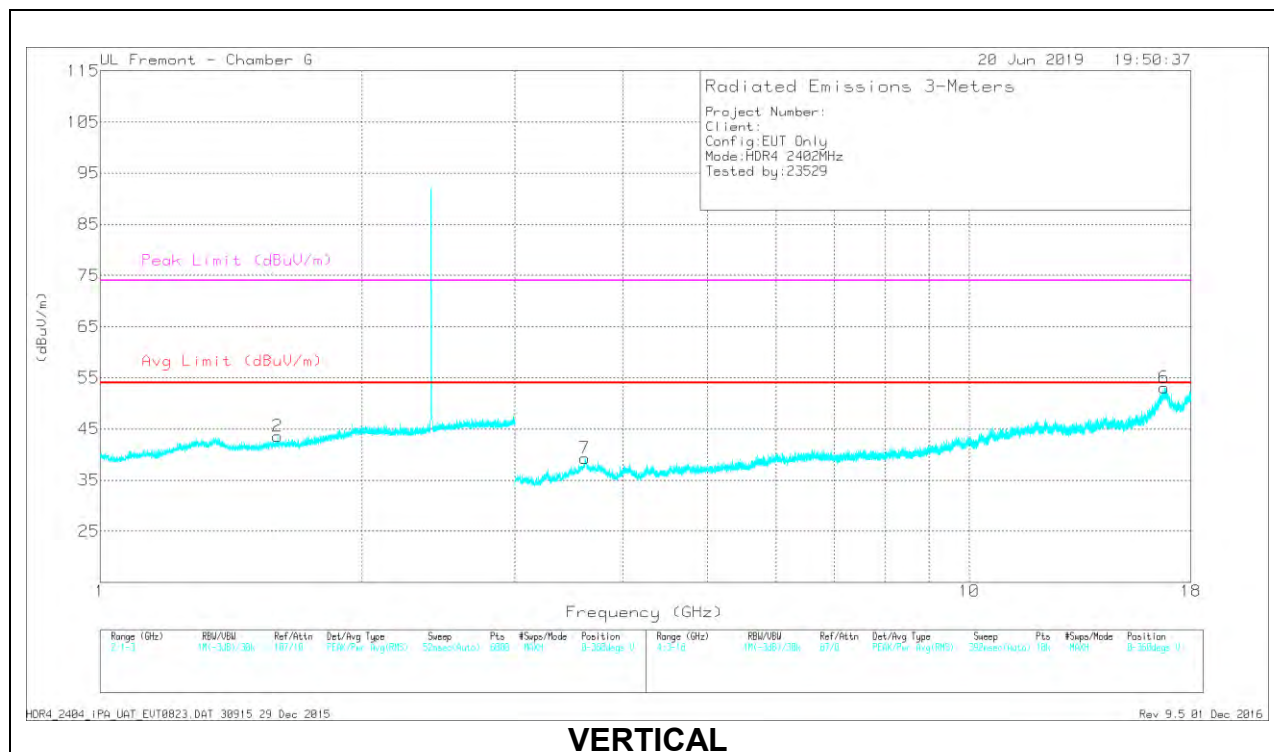
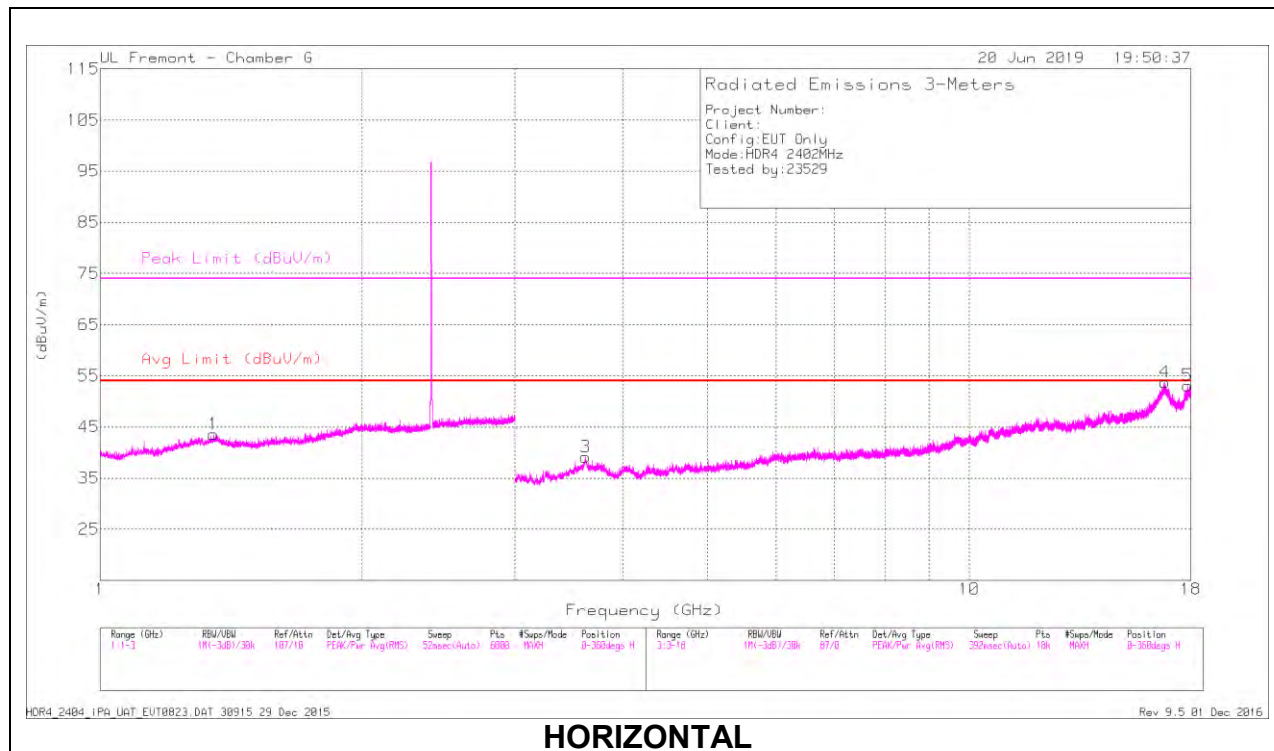
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

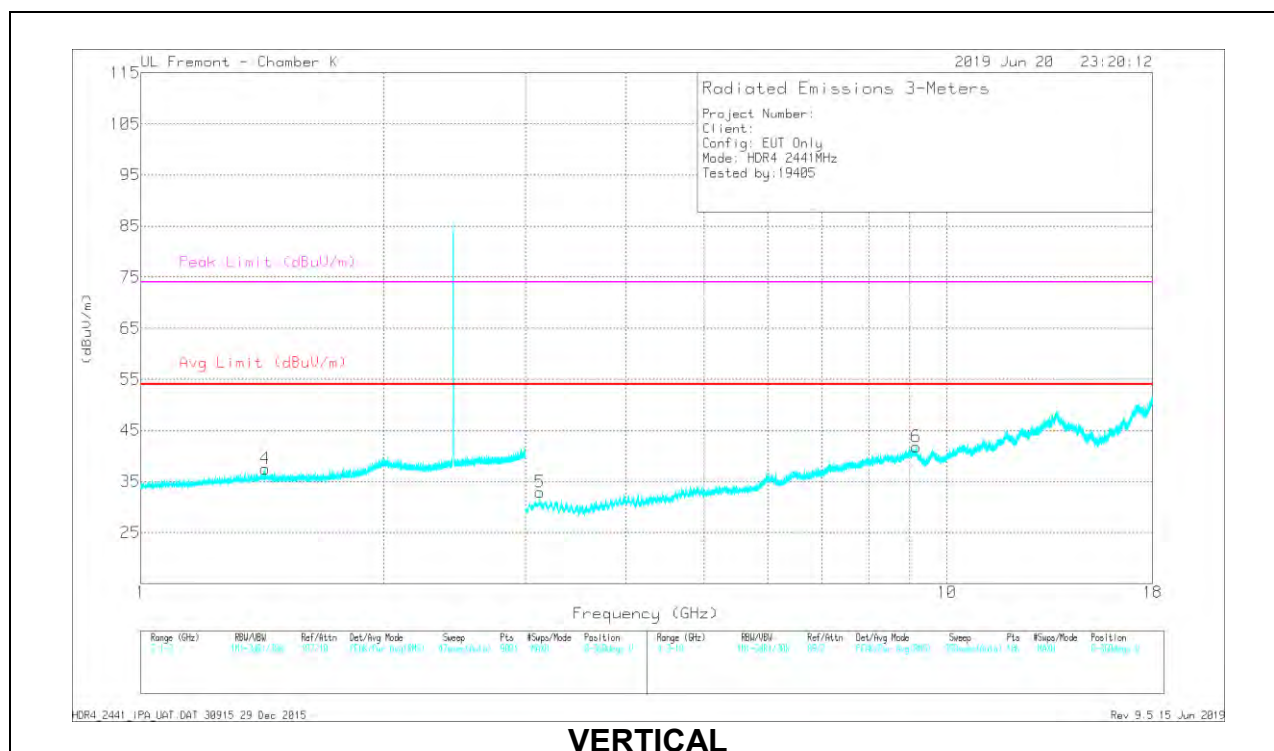
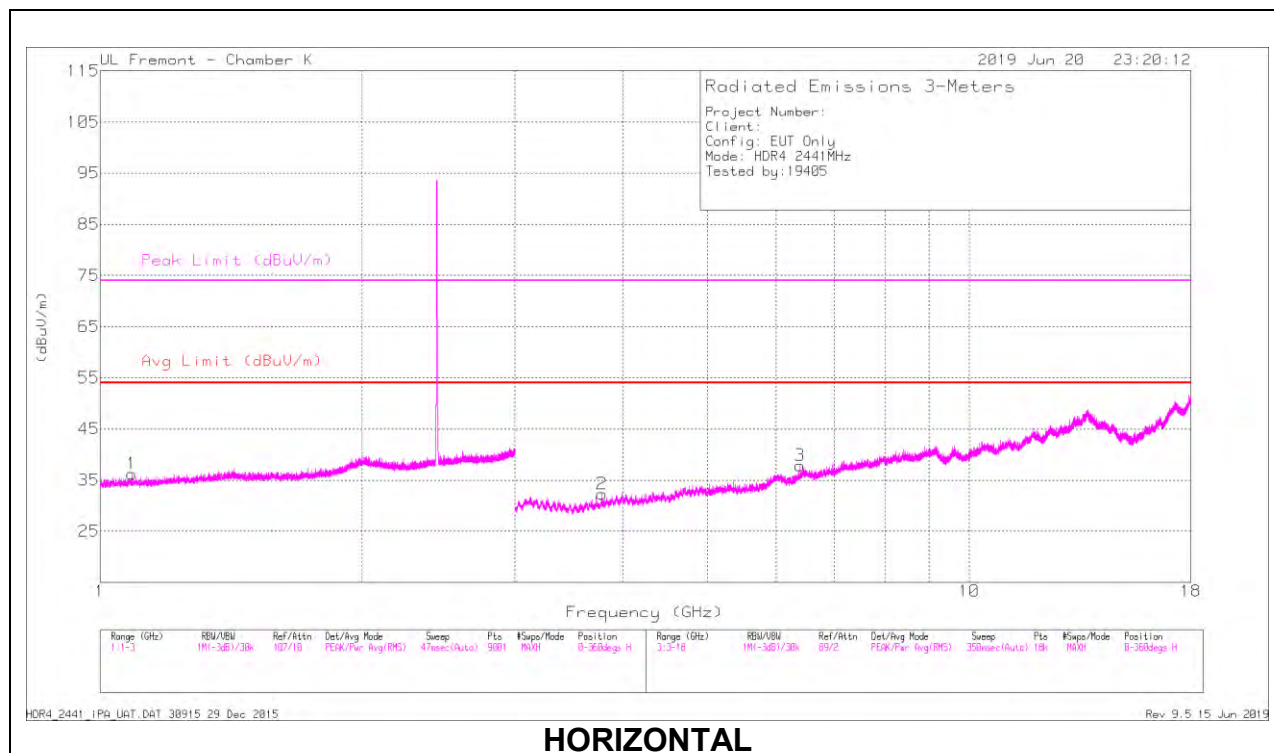
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.349	43.76	PK2	29.9	-23.3	50.36	-	-	74	-23.64	131	212	H
	* 1.351	32.16	MAv1	29.9	-23.3	38.76	54	-15.24	-	-	131	212	H
2	* 1.6	43.7	PK2	27.8	-21.2	50.3	-	-	74	-23.7	34	331	V
	* 1.6	32.02	MAv1	27.8	-21.2	38.62	54	-15.38	-	-	34	331	V
3	* 3.622	41.16	PK2	35.7	-29.9	46.96	-	-	74	-27.04	339	387	H
	* 3.621	29.89	MAv1	35.7	-30	35.59	54	-18.41	-	-	339	387	H
5	* 17.855	35.43	PK2	42.4	-18.2	59.63	-	-	74	-14.37	75	245	H
	* 17.854	24.04	MAv1	42.3	-18.2	48.14	54	-5.86	-	-	75	245	H
7	* 3.615	41.05	PK2	35.6	-30.1	46.55	-	-	74	-27.45	97	118	V
	* 3.614	30.29	MAv1	35.5	-30.2	35.59	54	-18.41	-	-	97	118	V
6	16.78	35.47	PK2	41.7	-17.6	59.57	-	-	74	-14.43	25	187	V
4	16.791	36.14	MAv1	41.7	-17.4	60.44	-	-	74	-13.56	152	227	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/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	* 1.08831	42.63	PK2	23.8	-23.8	42.63	-	-	74	-31.37	85	210	H
	* 1.08883	32.71	MAv1	23.8	-23.8	32.71	54	-21.29	-	-	85	210	H
4	* 1.42558	43.19	PK2	24.7	-23.8	44.09	-	-	74	-29.91	342	153	V
	* 1.42522	32.59	MAv1	24.7	-23.8	33.49	54	-20.51	-	-	342	153	V
2	* 3.78148	39.57	PK2	30.7	-31.5	38.77	-	-	74	-35.23	283	235	H
	* 3.78281	29.9	MAv1	30.7	-31.5	29.1	54	-24.9	-	-	283	235	H
3	6.38731	35.67	PK2	35.2	-26.7	44.17	-	-	74	-29.83	317	183	H
5	3.12705	42.51	PK2	30.6	-33.3	39.81	-	-	74	-34.19	218	180	V
6	* 9.16466	34.42	PK2	38.6	-23	50.02	-	-	74	-23.98	164	202	V
	* 9.16753	23.14	MAv1	38.6	-22.9	38.84	54	-15.16	-	-	164	202	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average