

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.

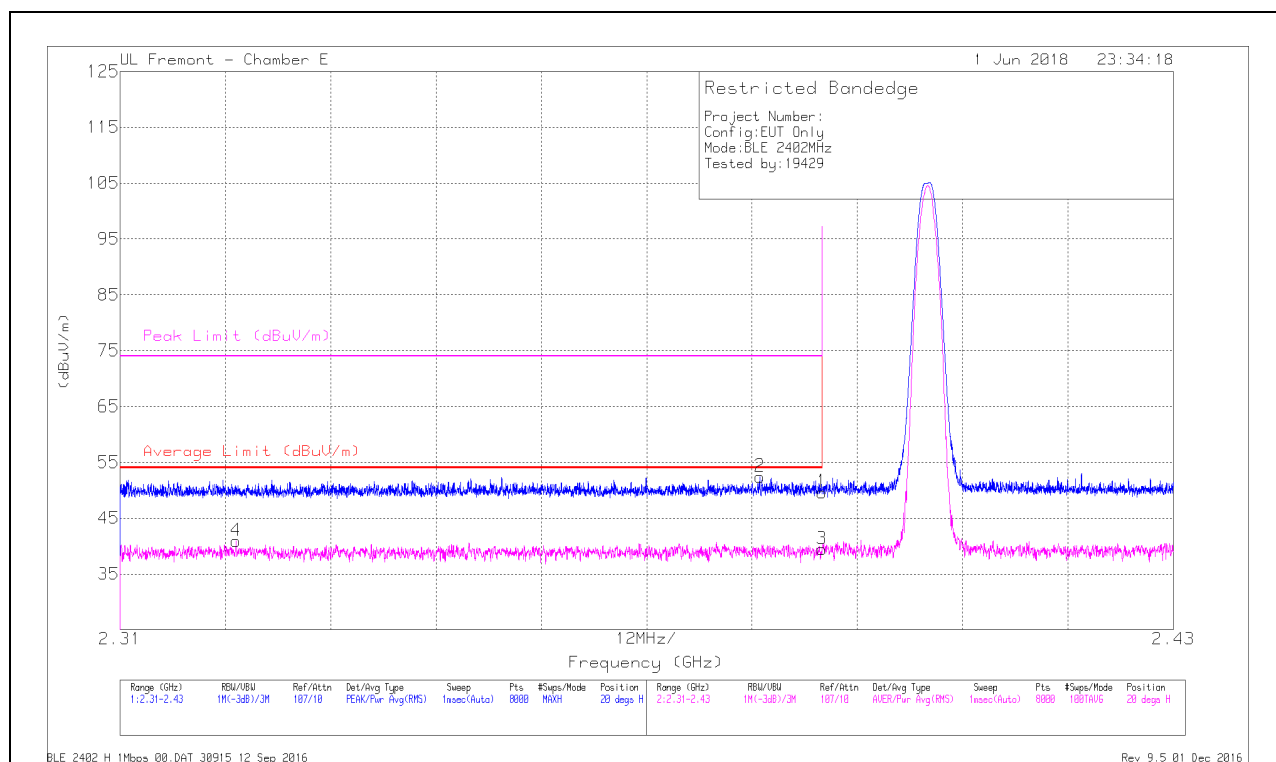
9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER BLE (1Mbps)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



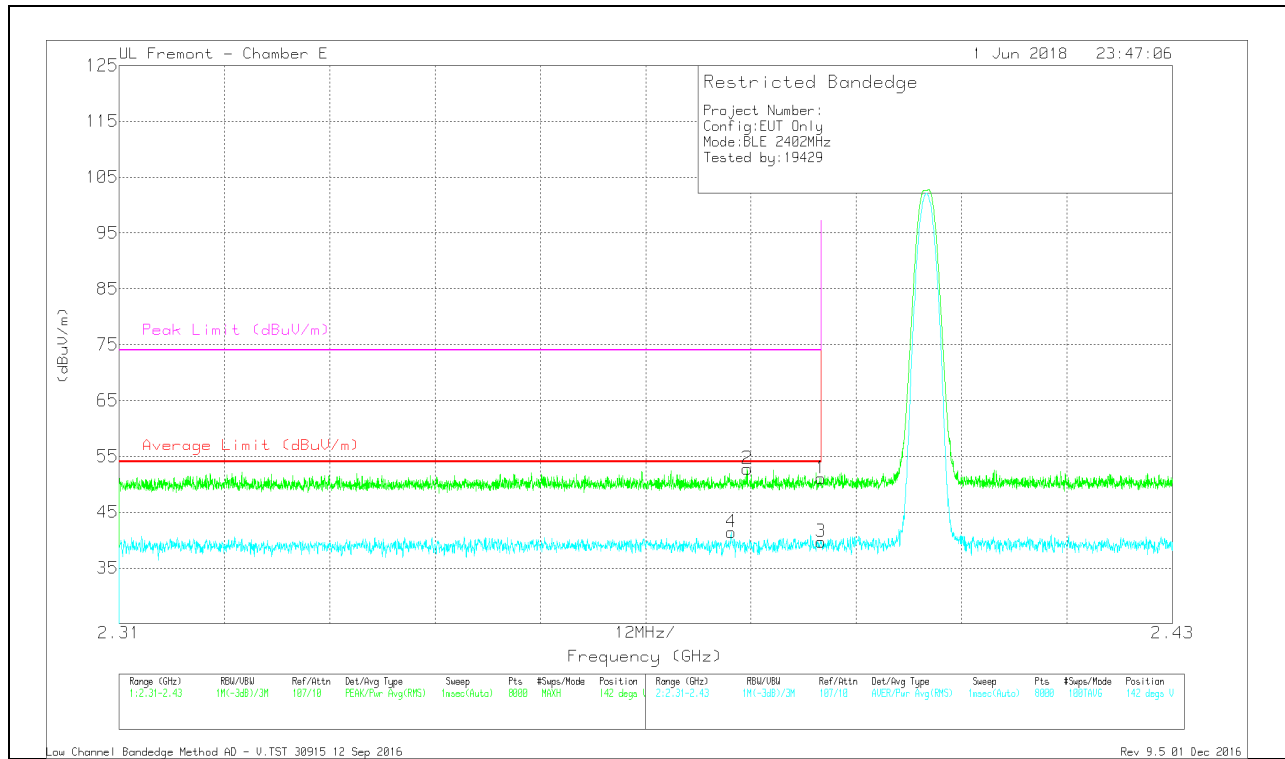
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/FiltriP ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.23	Pk	32	-22.6	49.63	-	-	74	-24.37	20	192	H
2	* 2.383	43.12	Pk	31.9	-22.6	52.42	-	-	74	-21.58	20	192	H
3	* 2.39	30.02	RMS	32	-22.6	39.42	54	-14.58	-	-	20	192	H
4	* 2.323	31.81	RMS	31.8	-22.7	40.91	54	-13.09	-	-	20	192	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 (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	41.65	Pk	32	-22.6	51.05	-	-	74	-22.95	142	335	V
2	* 2.382	43.45	Pk	31.9	-22.6	52.75	-	-	74	-21.25	142	335	V
3	* 2.39	30.28	RMS	32	-22.6	39.68	54	-14.32	-	-	142	335	V
4	* 2.38	32.12	RMS	31.9	-22.6	41.42	54	-12.58	-	-	142	335	V

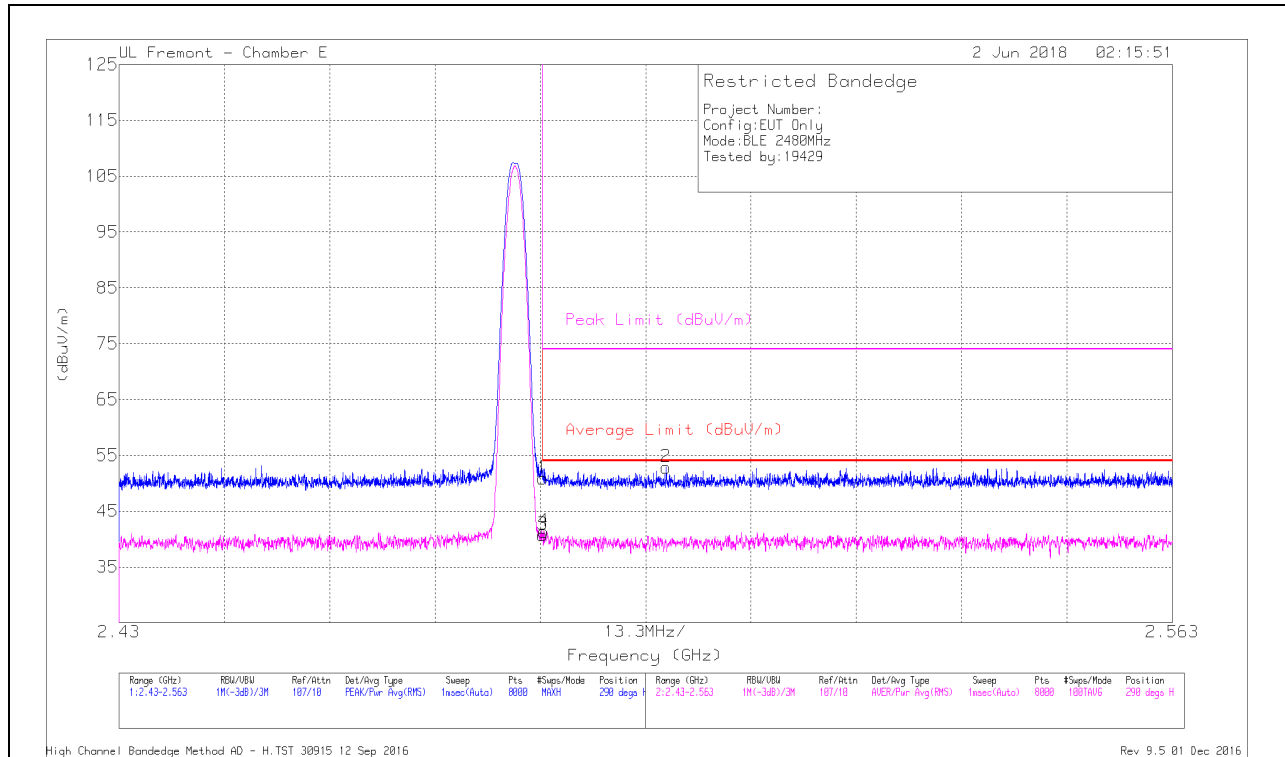
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



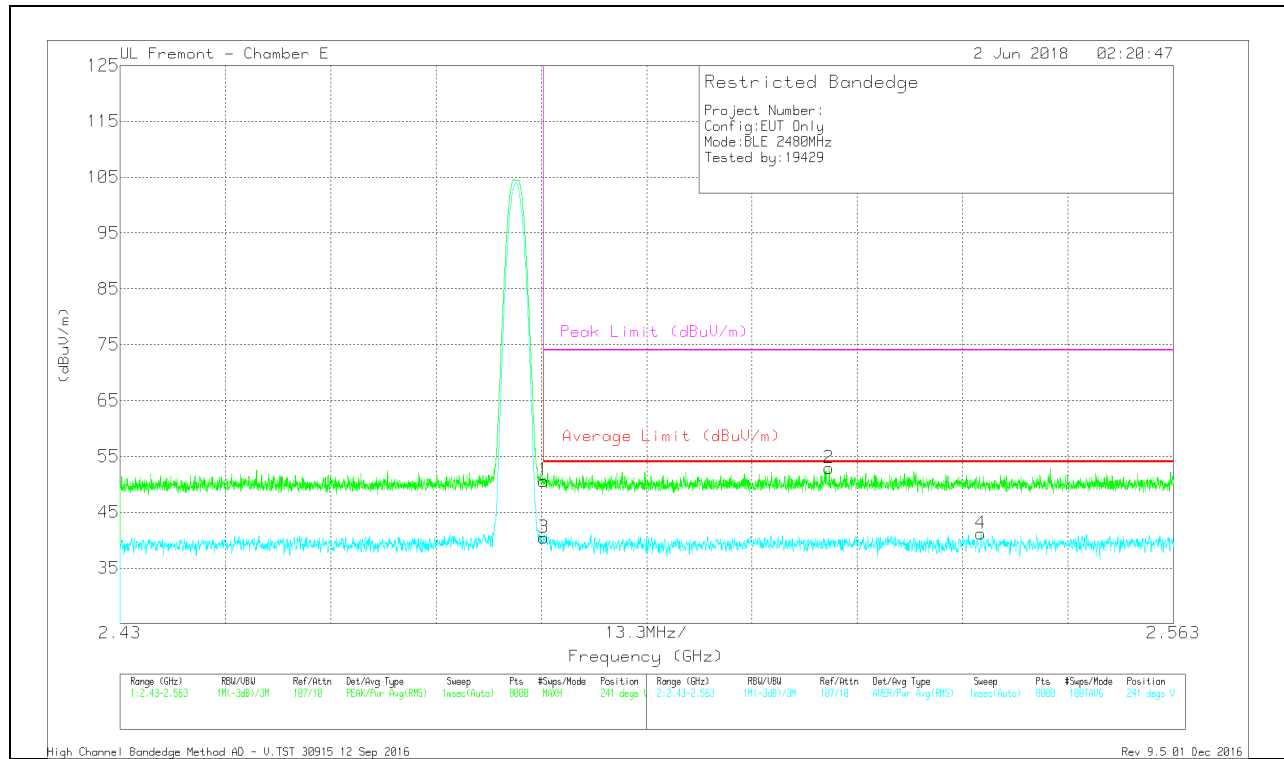
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.1	Pk	32.1	-22.3	50.9	-	-	74	-23.1	290	101	H
2	* 2.499	43.14	Pk	32.1	-22.4	52.84	-	-	74	-21.16	290	101	H
3	* 2.484	30.95	RMS	32.1	-22.3	40.75	54	-13.25	-	-	290	101	H
4	* 2.484	31.56	RMS	32.1	-22.3	41.36	54	-12.64	-	-	290	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 (dBm)	Amp/Cbl/Filtri/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	40.83	Pk	32.1	-22.3	50.63	-	-	74	-23.37	241	356	V
3	* 2.484	30.6	RMS	32.1	-22.3	40.4	54	-13.6	-	-	241	356	V
2	2.52	43.06	Pk	32.1	-22.3	52.86	-	-	74	-21.14	241	356	V
4	2.539	31.47	RMS	32.1	-22.4	41.17	54	-12.83	-	-	241	356	V

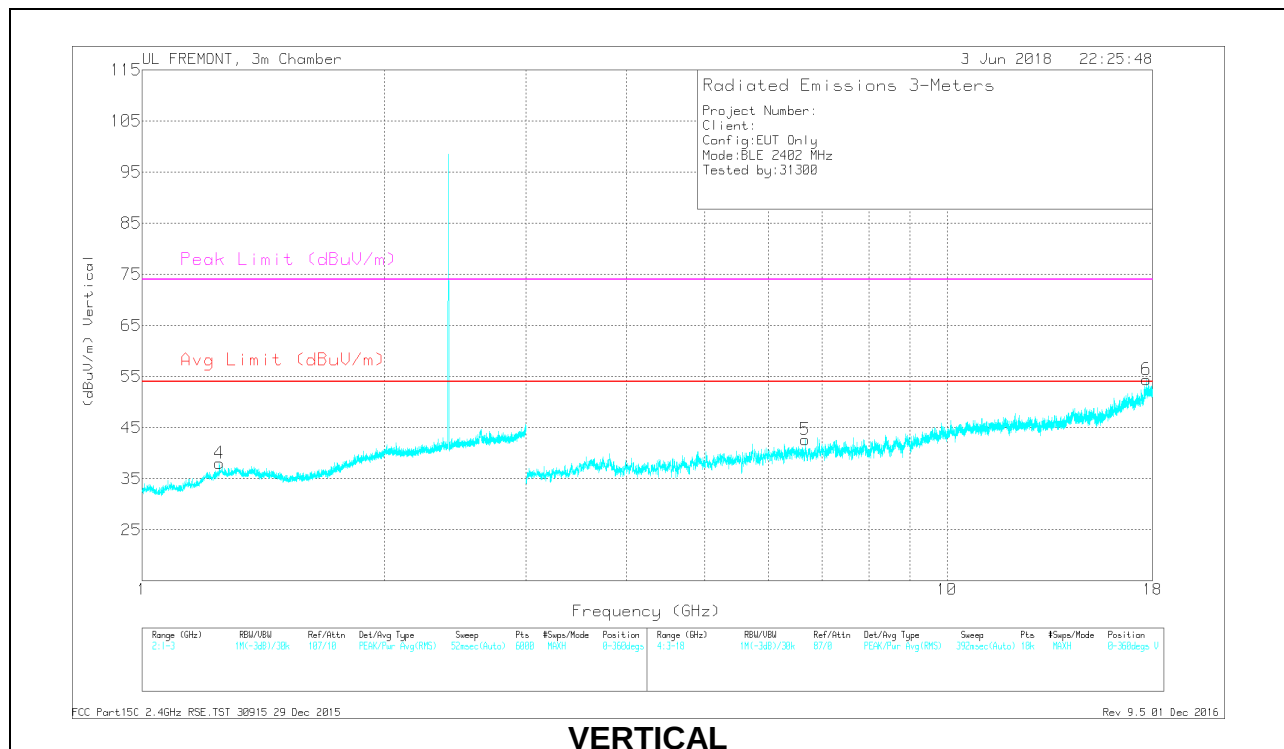
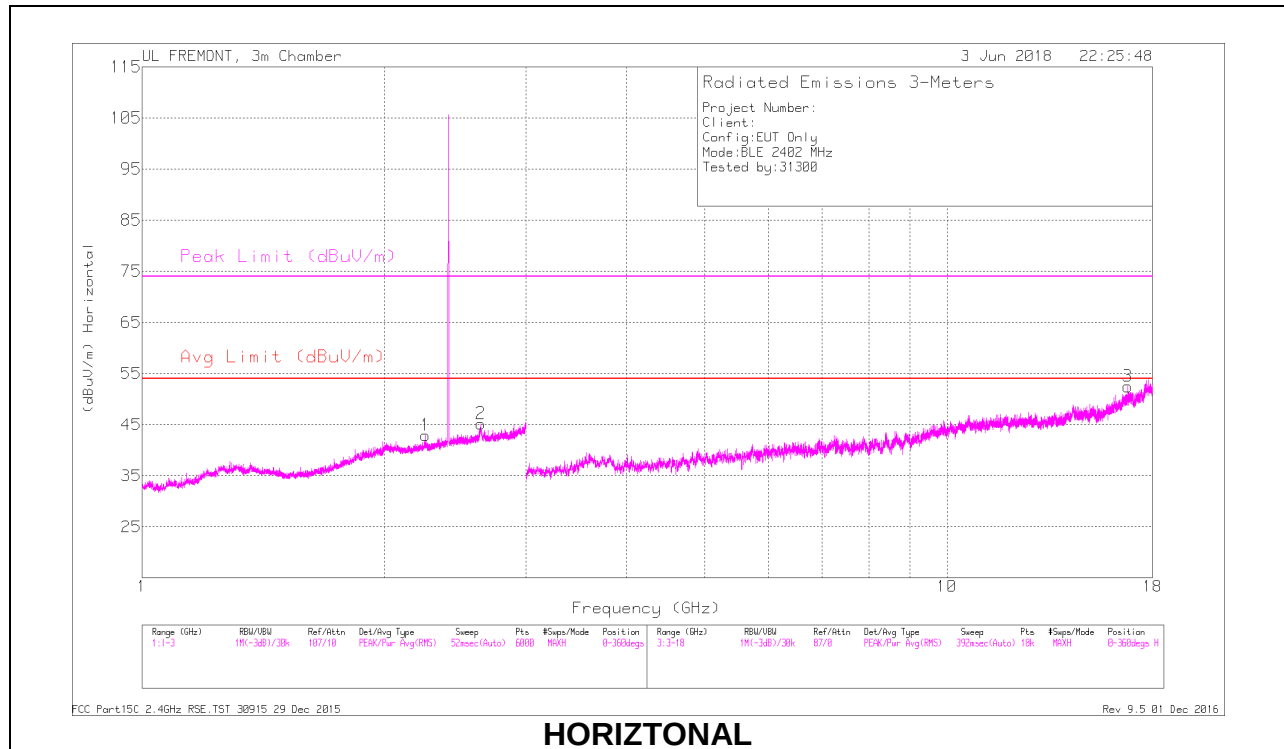
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

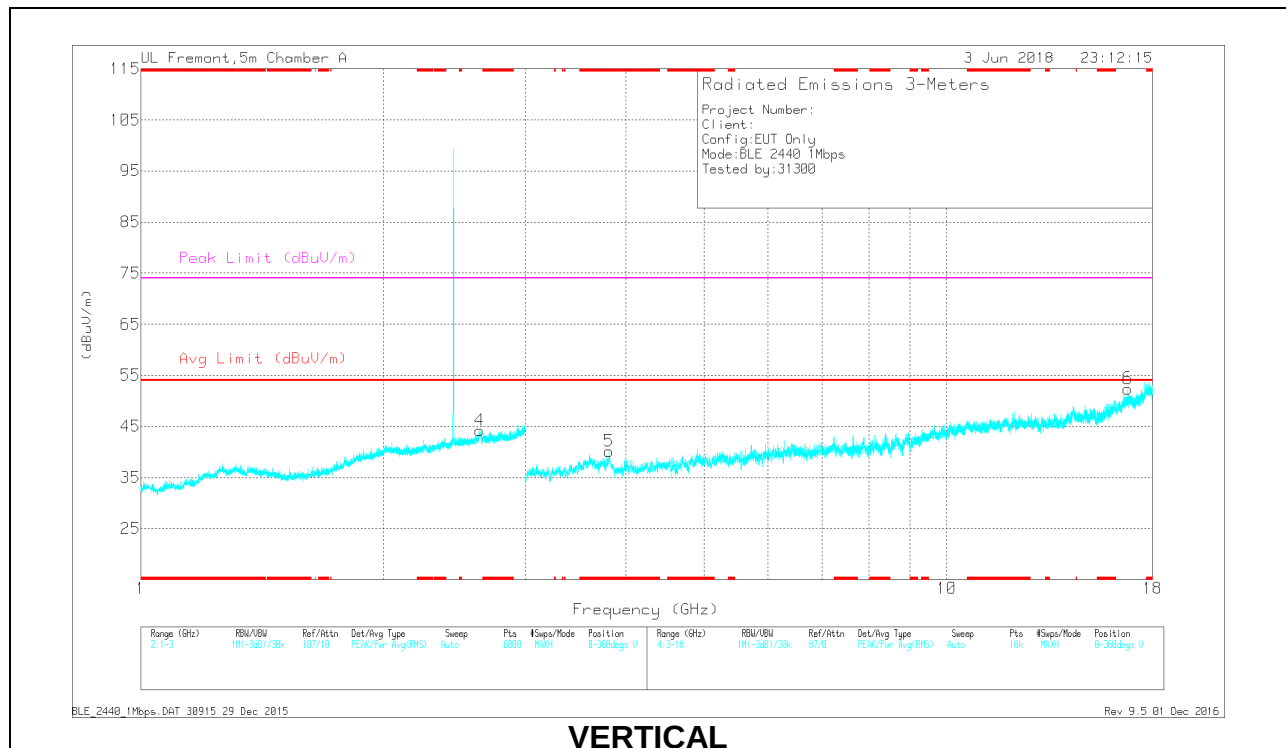
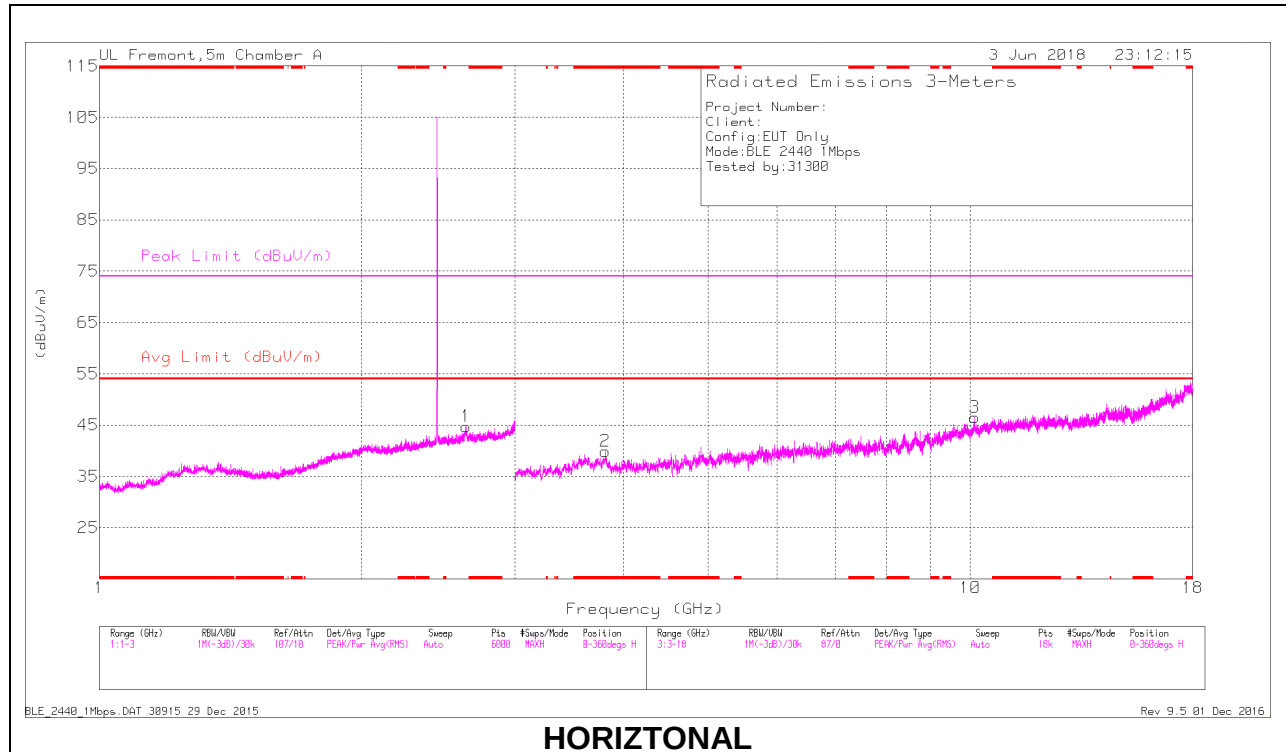
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.253	37.94	PK2	31.9	-21.4	48.44	-	-	74	-25.56	340	279	H
	* 2.251	26.02	MAv1	31.9	-21.4	36.52	54	-17.48	-	-	340	279	H
4	* 1.248	37.17	PK2	29.8	-22.7	44.27	-	-	74	-29.73	186	150	V
	* 1.25	25.21	MAv1	29.9	-22.8	32.31	54	-21.69	-	-	186	150	V
2	2.634	39.02	PK2	32.5	-20.1	51.42	-	-	-	-	145	167	H
5	6.669	38.2	PK2	35.7	-24.7	49.2	-	-	-	-	130	219	V
3	16.774	34.6	PK2	41.5	-16.5	59.6	-	-	-	-	332	292	H
6	17.685	35.2	PK2	41.1	-15.1	61.2	-	-	-	-	248	400	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

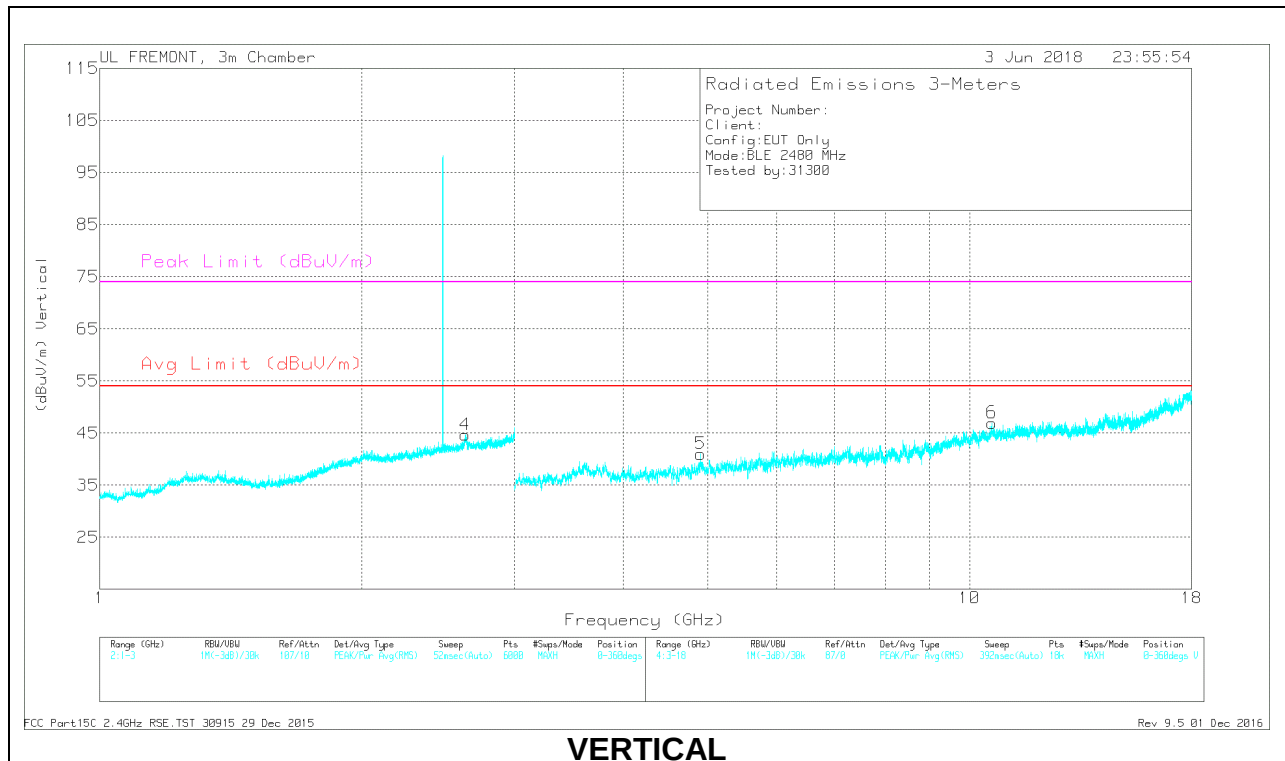
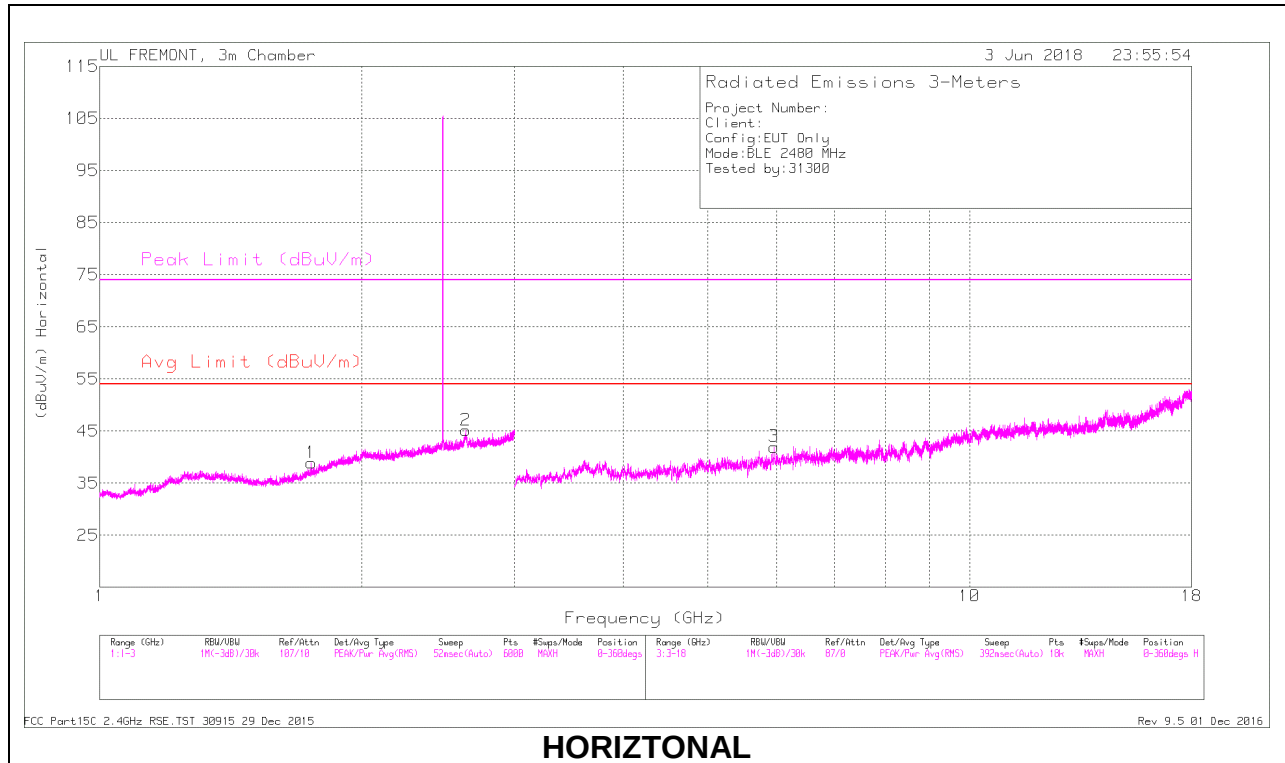
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.812	40.56	PK2	33.7	-26.9	47.36	-	-	74	-26.64	276	136	H
	* 3.811	28.84	MAv1	33.7	-26.9	35.64	54	-18.36	-	-	276	136	H
5	* 3.81	40.65	PK2	33.7	-26.7	47.65	-	-	74	-26.35	217	208	V
	* 3.811	28.82	MAv1	33.7	-26.8	35.72	54	-18.28	-	-	217	208	V
4	2.632	39.17	PK2	32.5	-20.2	51.47	-	-	-	-	334	201	V
1	2.634	39.32	PK2	32.6	-20.1	51.82	-	-	-	-	330	380	H
3	10.115	35.29	PK2	37.4	-20	52.69	-	-	-	-	26	100	H
6	16.777	34.37	PK2	41.6	-16.6	59.37	-	-	-	-	159	400	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 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
5	* 4.903	40.59	PK2	34	-26.3	48.29	-	-	74	-25.71	191	284	V
	* 4.905	28.24	MAv1	34	-26.5	35.74	54	-18.26	-	-	191	284	V
6	* 10.607	36.34	PK2	37.8	-21	53.14	-	-	74	-20.86	146	278	V
	* 10.609	24.8	MAv1	37.8	-20.9	41.7	54	-12.3	-	-	146	278	V
1	1.753	36.96	PK2	29.5	-21.7	44.76	-	-	-	-	300	179	H
4	2.631	39.27	PK2	32.5	-20.2	51.57	-	-	-	-	345	200	V
2	2.637	38.68	PK2	32.6	-20.2	51.08	-	-	-	-	95	173	H
3	5.957	38.31	PK2	35.3	-24.9	48.71	-	-	-	-	182	108	H

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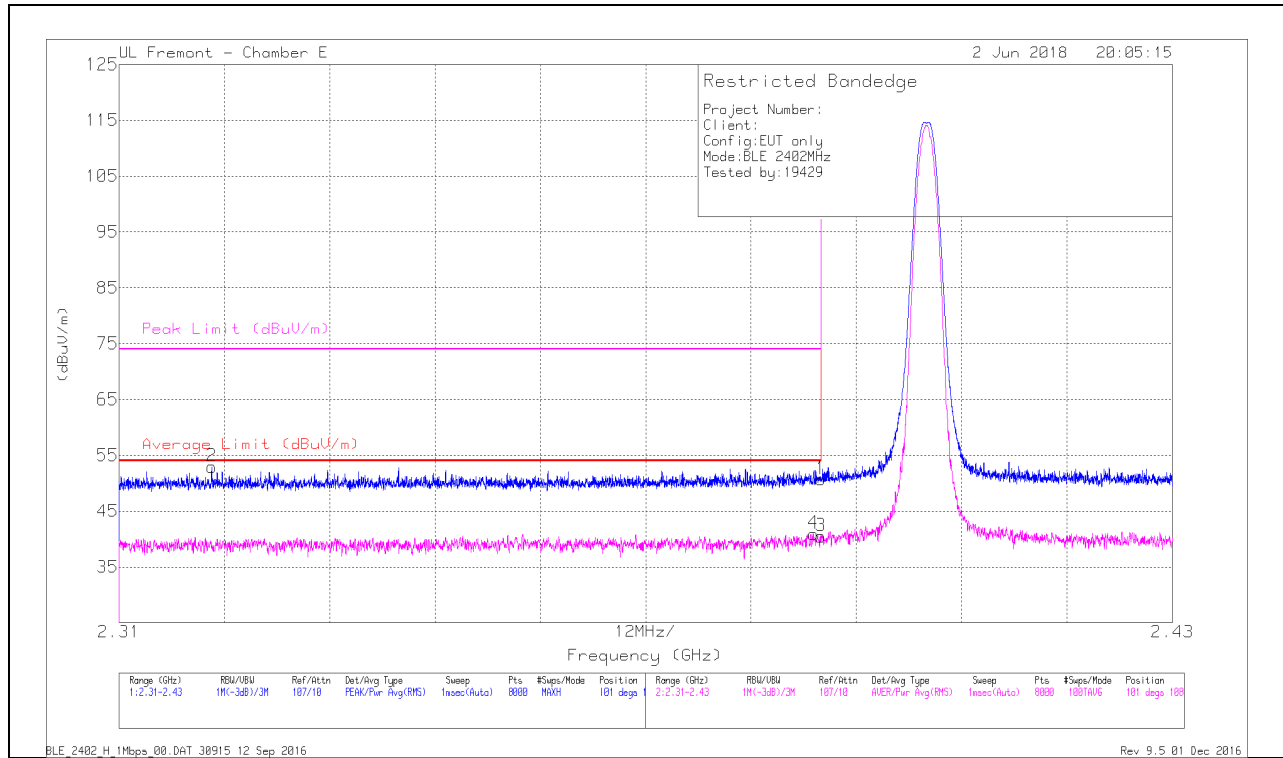
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



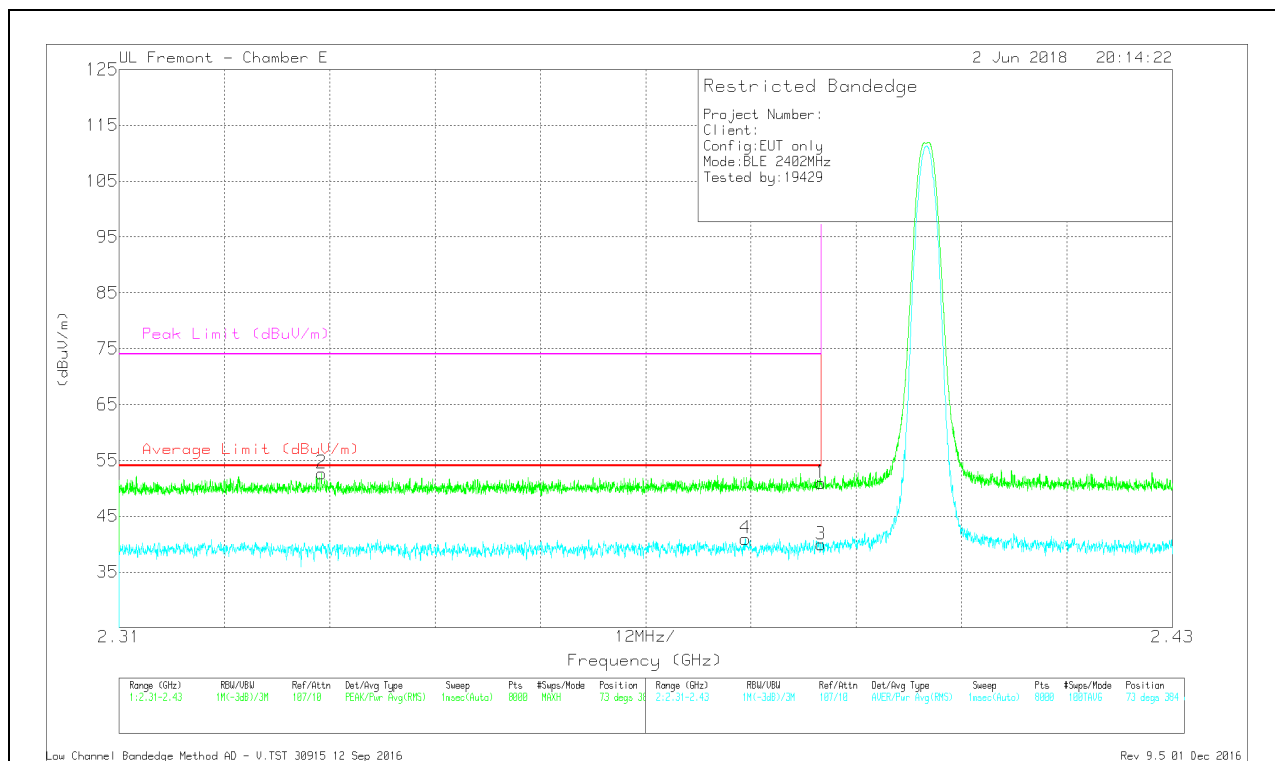
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.34	Pk	32	-22.6	50.74	-	-	74	-23.26	101	108	H
2	* 2.321	43.86	Pk	31.8	-22.7	52.96	-	-	74	-21.04	101	108	H
3	* 2.39	31.1	RMS	32	-22.6	40.5	54	-13.5	-	-	101	108	H
4	* 2.389	31.67	RMS	31.9	-22.6	40.97	54	-13.03	-	-	101	108	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 (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	* 2.39	41.57	Pk	32	-22.6	50.97	-	-	74	-23.03	73	384	V
2	* 2.333	43.58	Pk	31.8	-22.7	52.68	-	-	74	-21.32	73	384	V
3	* 2.39	30.54	RMS	32	-22.6	39.94	54	-14.06	-	-	73	384	V
4	* 2.381	31.68	RMS	31.9	-22.6	40.98	54	-13.02	-	-	73	384	V

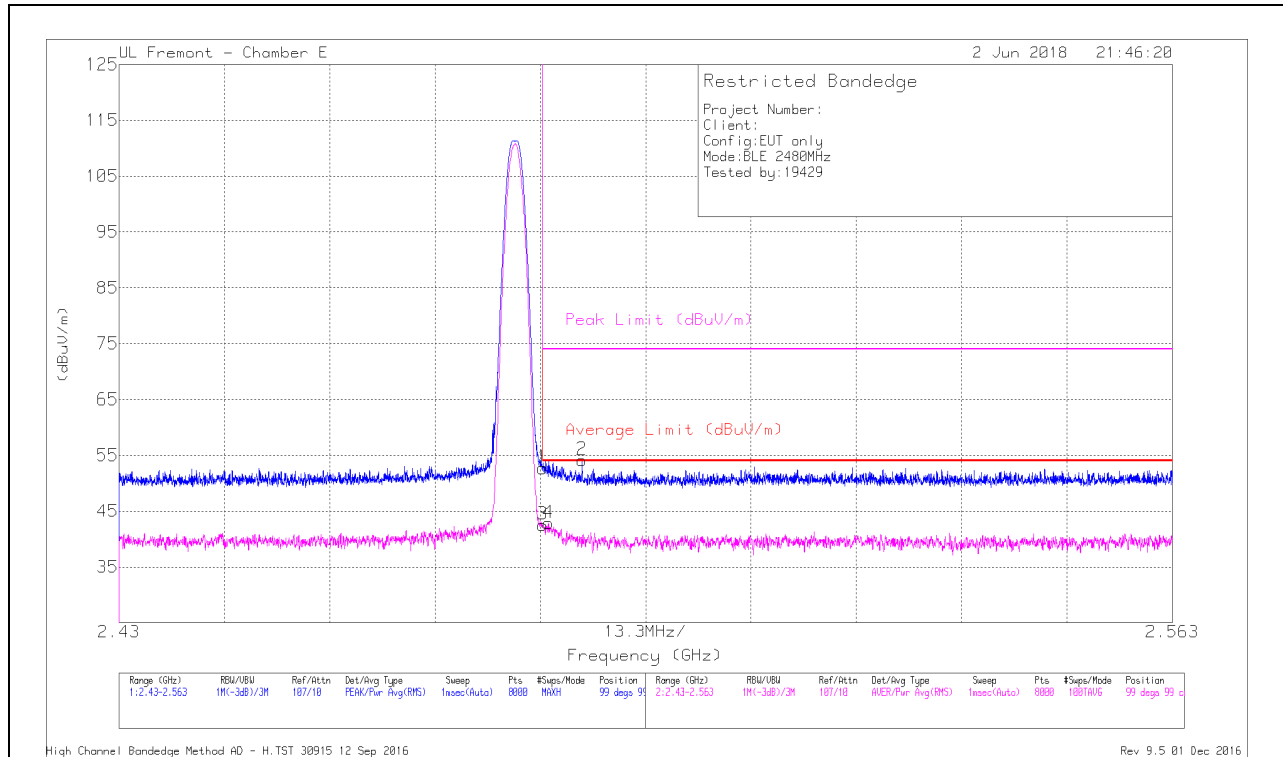
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



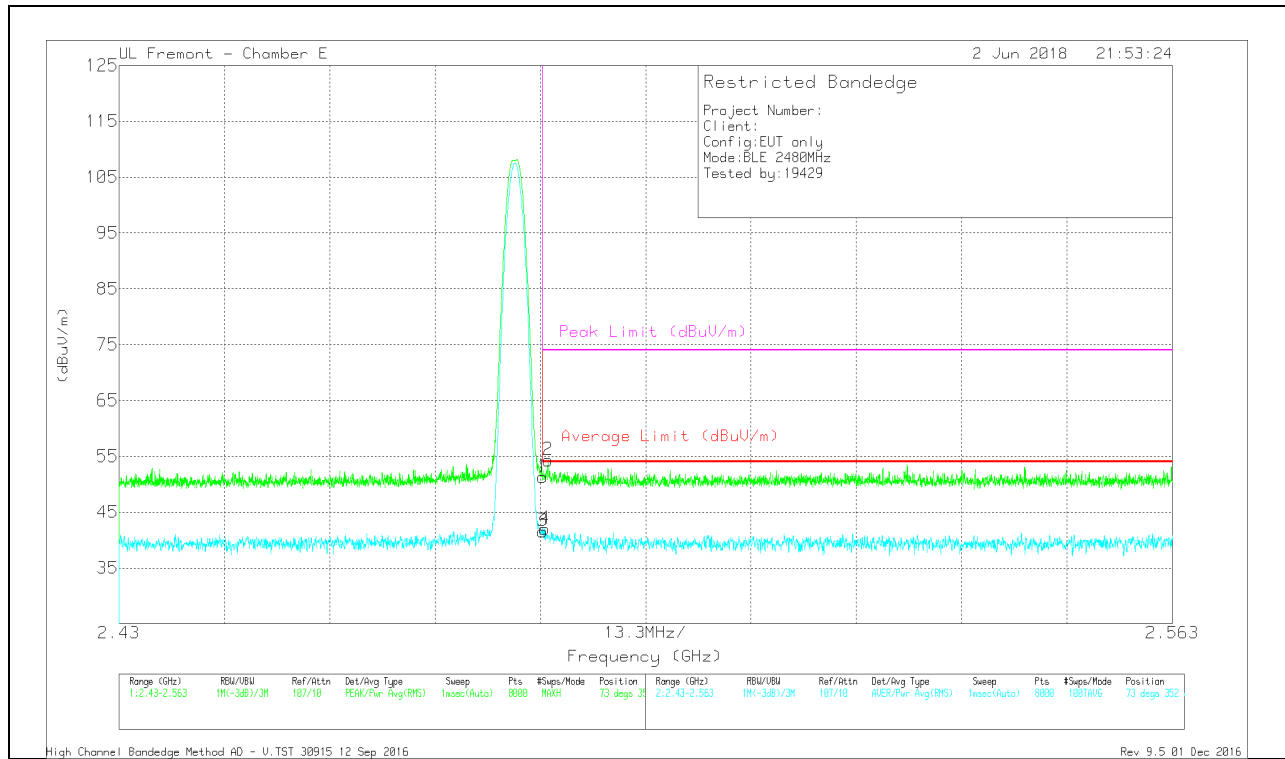
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.92	Pk	32.1	-22.3	52.72	-	-	74	-21.28	99	99	H
2	* 2.488	44.46	Pk	32.1	-22.4	54.16	-	-	74	-19.84	99	99	H
3	* 2.484	32.77	RMS	32.1	-22.3	42.57	54	-11.43	-	-	99	99	H
4	* 2.484	33.04	RMS	32.1	-22.3	42.84	54	-11.16	-	-	99	99	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 (dBm)	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	41.5	Pk	32.1	-22.3	51.3	-	-	74	-22.7	73	352	V
2	* 2.484	44.52	Pk	32.1	-22.3	54.32	-	-	74	-19.68	73	352	V
3	* 2.484	31.79	RMS	32.1	-22.3	41.59	54	-12.41	-	-	73	352	V
4	* 2.484	32.21	RMS	32.1	-22.3	42.01	54	-11.99	-	-	73	352	V

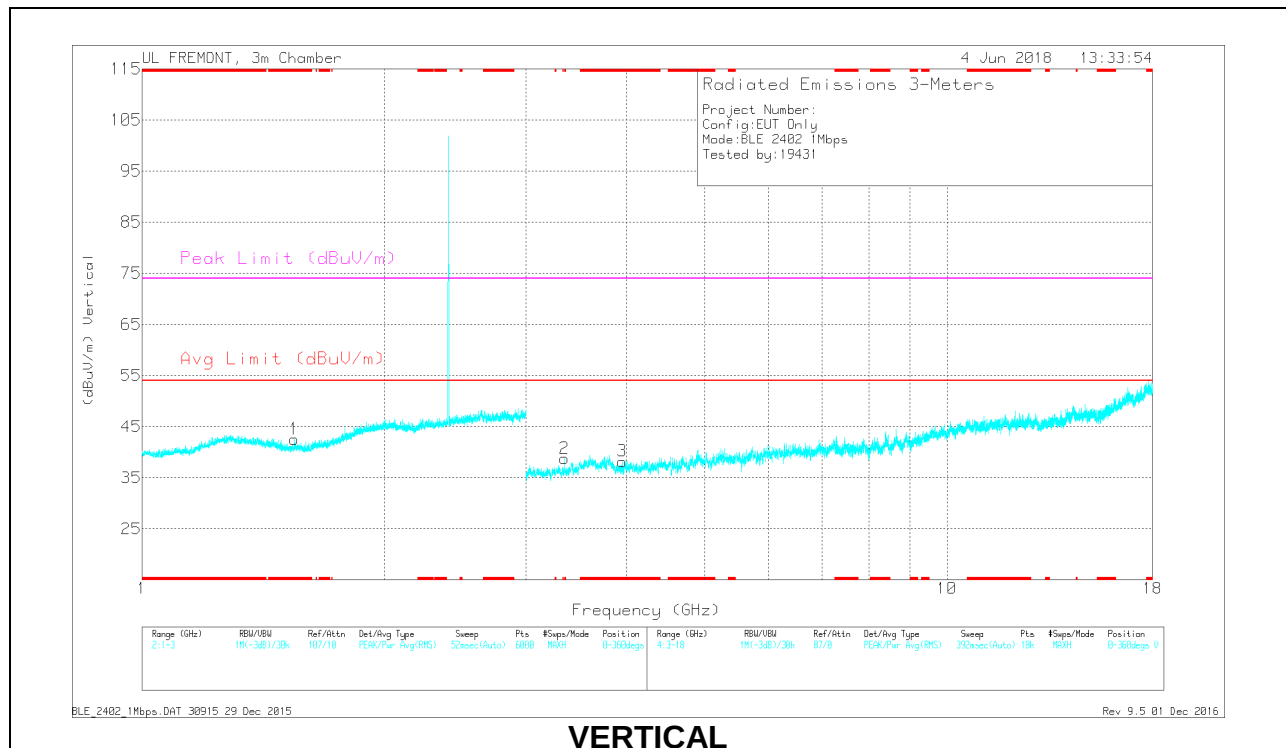
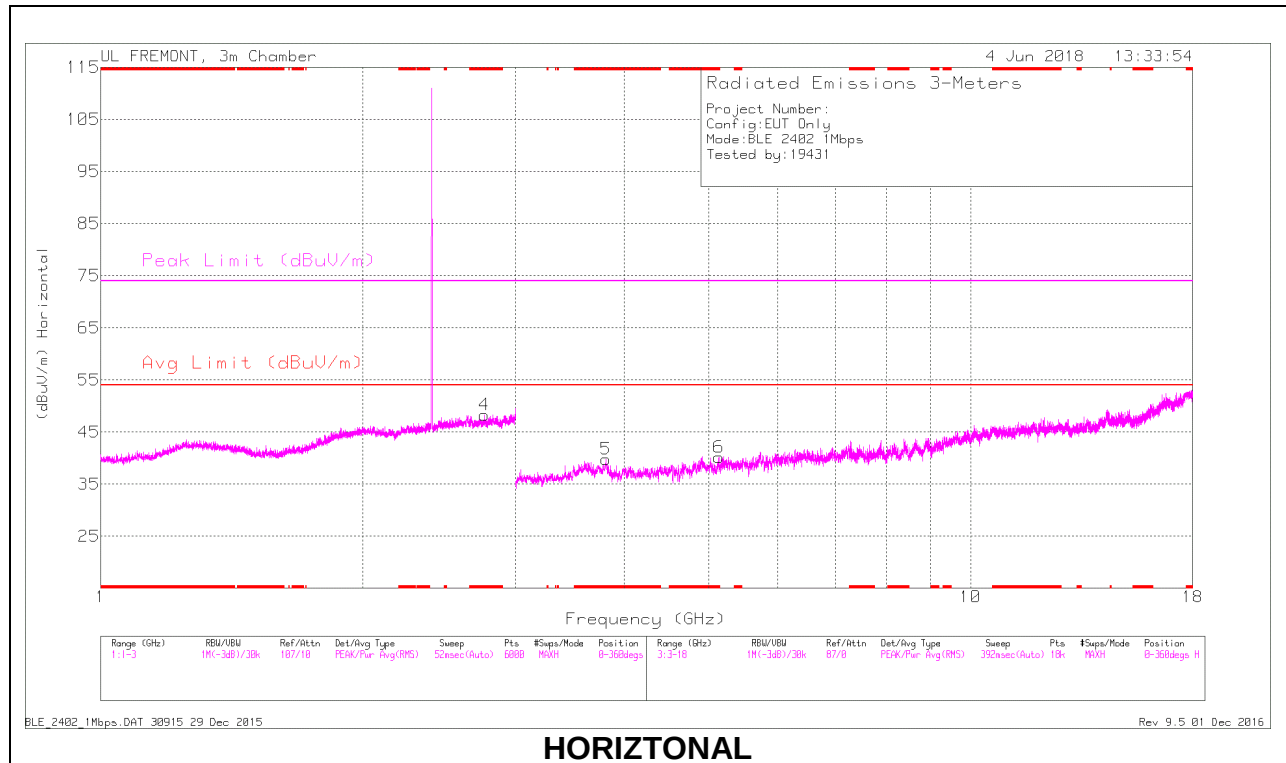
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Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

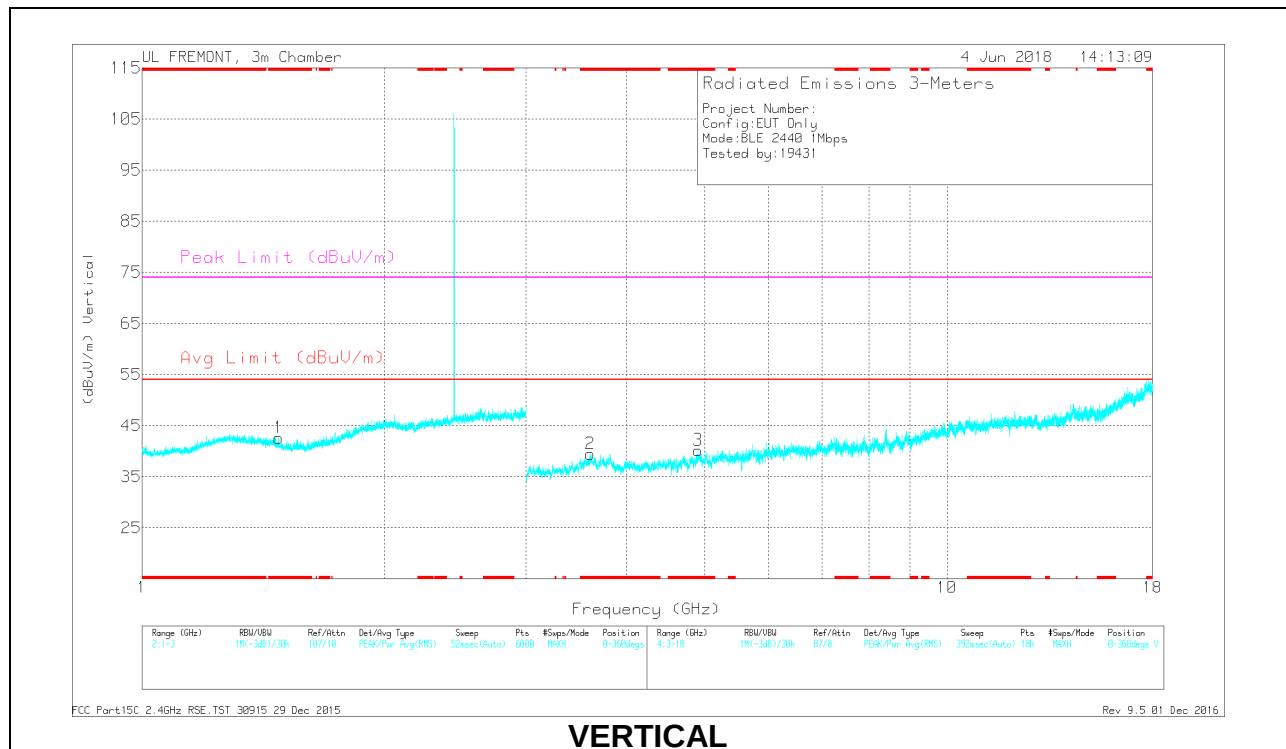
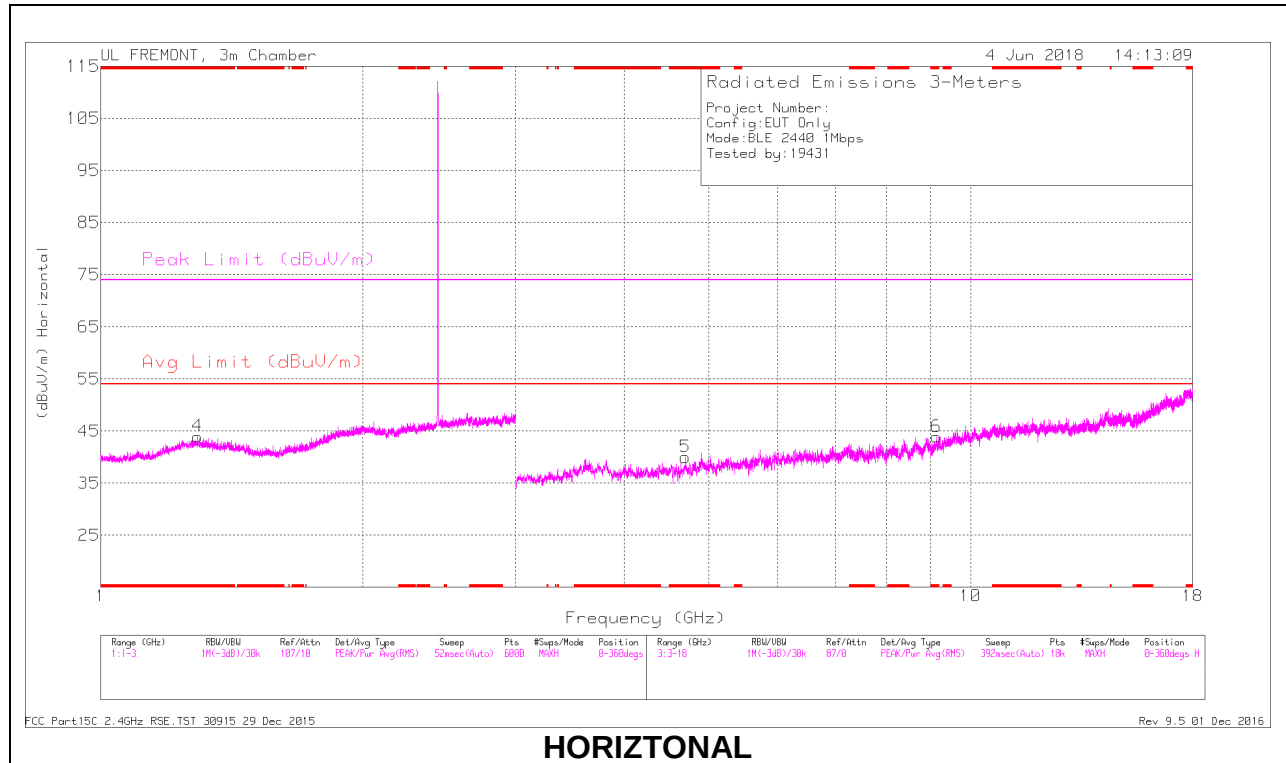
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.759	42.48	PK2	32.5	-20.1	54.88	-	-	74	-19.12	10	189	H
	* 2.759	30.15	MAv1	32.5	-20.1	42.55	54	-11.45	-	-	10	189	H
1	* 1.548	42.37	PK2	28	-21.4	48.97	-	-	74	-25.03	54	377	V
	* 1.547	30.36	MAv1	28	-21.4	36.96	54	-17.04	-	-	54	377	V
5	* 3.809	40.44	PK2	33.7	-26.7	47.44	-	-	74	-26.56	72	332	H
	* 3.811	28.96	MAv1	33.7	-26.8	35.86	54	-18.14	-	-	72	332	H
6	* 5.136	39.68	PK2	34.3	-27	46.98	-	-	74	-27.02	53	296	H
	* 5.137	28.05	MAv1	34.3	-27.1	35.25	54	-18.75	-	-	53	296	H
2	* 3.348	39.36	PK2	33.5	-28.1	44.76	-	-	74	-29.24	130	307	V
	* 3.35	27.31	MAv1	33.5	-28.1	32.71	54	-21.29	-	-	130	307	V
3	* 3.95	40.26	PK2	33.4	-28.8	44.86	-	-	74	-29.14	130	345	V
	* 3.951	28.49	MAv1	33.4	-28.8	33.09	54	-20.91	-	-	130	345	V

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PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

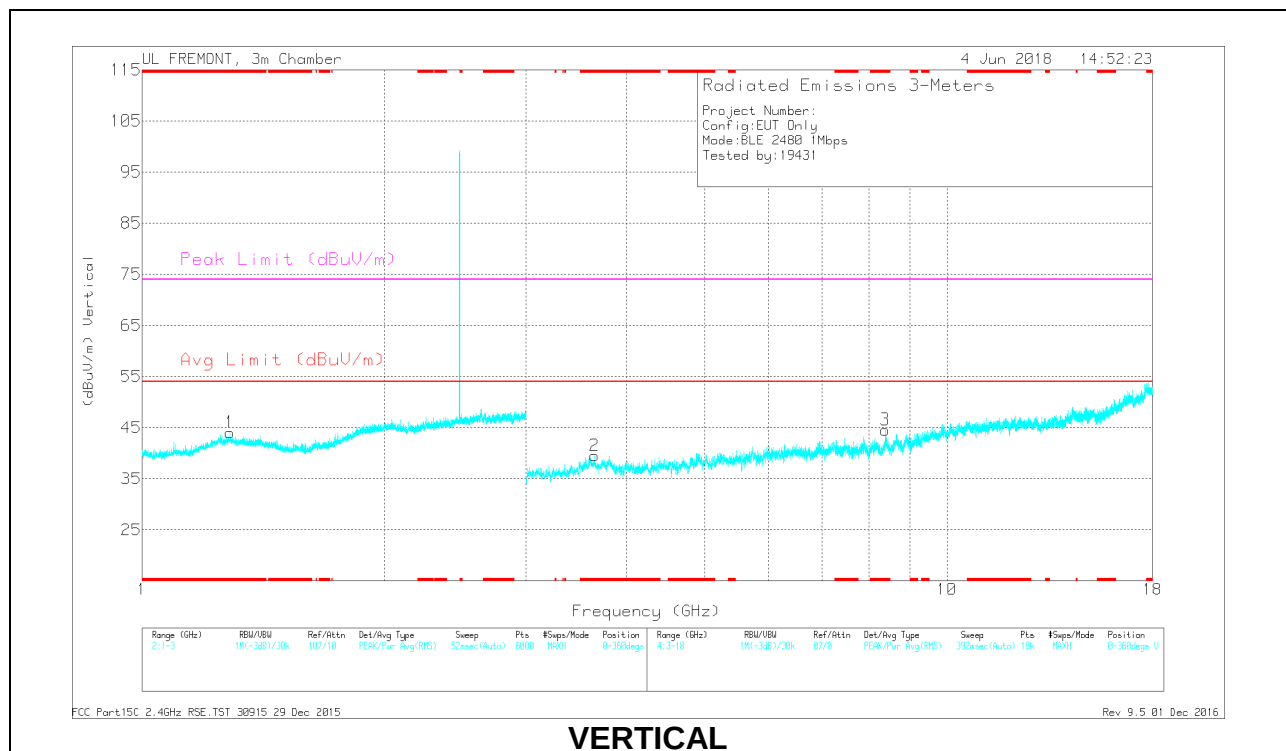
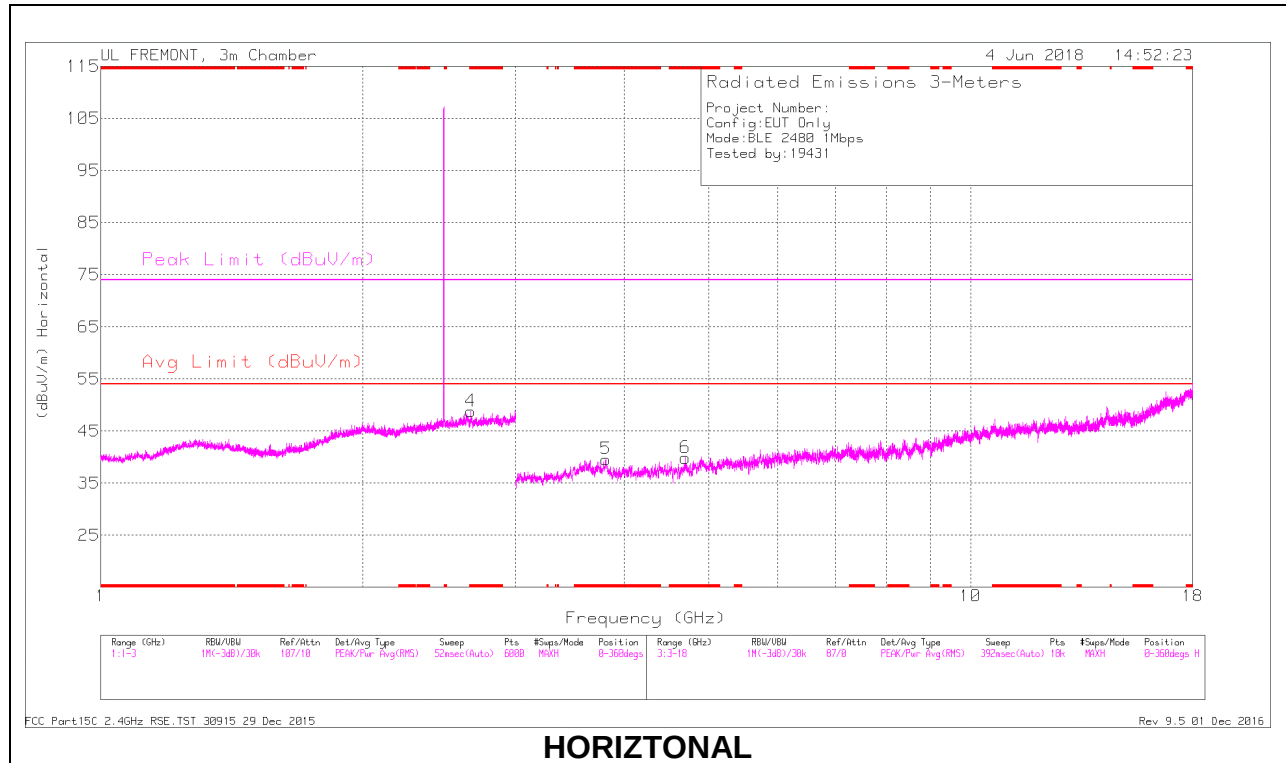
Marker	Frequency (GHz)	MeterReading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin(dB)	Peak Limit (dBuV/m)	PK Margin(dB)	Azimuth(Degs)	Height(cm)	Polarity
4	* 1.291	42.85	PK2	29.9	-21.9	50.85	-	-	74	-23.15	206	395	H
	* 1.293	30.46	MAv1	29.9	-21.9	38.46	54	-15.54	-	-	206	395	H
1	* 1.48	42.38	PK2	28.4	-21.6	49.18	-	-	74	-24.82	243	146	V
	* 1.478	30.24	MAv1	28.5	-21.6	37.14	54	-16.86	-	-	243	146	V
5	* 4.698	39.74	PK2	34	-27.3	46.44	-	-	74	-27.56	319	393	H
	* 4.7	28.48	MAv1	34	-27.2	35.28	54	-18.72	-	-	319	393	H
6	* 9.135	35.51	PK2	36.2	-20.5	51.21	-	-	74	-22.79	287	345	H
	* 9.138	23.7	MAv1	36.2	-20.7	39.2	54	-14.8	-	-	287	345	H
2	* 3.607	41.07	PK2	34.7	-28.9	46.87	-	-	74	-27.13	354	272	V
	* 3.608	29.22	MAv1	34.7	-28.9	35.02	54	-18.98	-	-	354	272	V
3	* 4.906	39.95	PK2	34	-26.6	47.35	-	-	74	-26.65	0	171	V
	* 4.907	28.23	MAv1	34	-26.7	35.53	54	-18.47	-	-	0	171	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	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.665	41.8	PK2	32.6	-19.2	55.2	-	-	74	-18.8	142	256	H
	* 2.666	29.61	MAv1	32.6	-19.2	43.01	54	-10.99	-	-	142	256	H
1	* 1.288	42.18	PK2	29.9	-21.9	50.18	-	-	74	-23.82	264	196	V
	* 1.288	30.56	MAv1	29.9	-21.9	38.56	54	-15.44	-	-	264	196	V
5	* 3.812	40.4	PK2	33.7	-27.1	47	-	-	74	-27	47	104	H
	* 3.812	28.97	MAv1	33.7	-27	35.67	54	-18.33	-	-	47	104	H
6	* 4.698	40.54	PK2	34	-27.3	47.24	-	-	74	-26.76	95	127	H
	* 4.7	28.46	MAv1	34	-27.2	35.26	54	-18.74	-	-	95	127	H
2	* 3.647	40.79	PK2	34.5	-28.6	46.69	-	-	74	-27.31	225	105	V
	* 3.649	28.93	MAv1	34.5	-28.7	34.73	54	-19.27	-	-	225	105	V
3	* 8.38	35.8	PK2	35.7	-21.3	50.2	-	-	74	-23.8	238	148	V
	* 8.383	24.54	MAv1	35.7	-21.3	38.94	54	-15.06	-	-	238	148	V

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

PK2 - KDB558074 Method: Maximum Peak

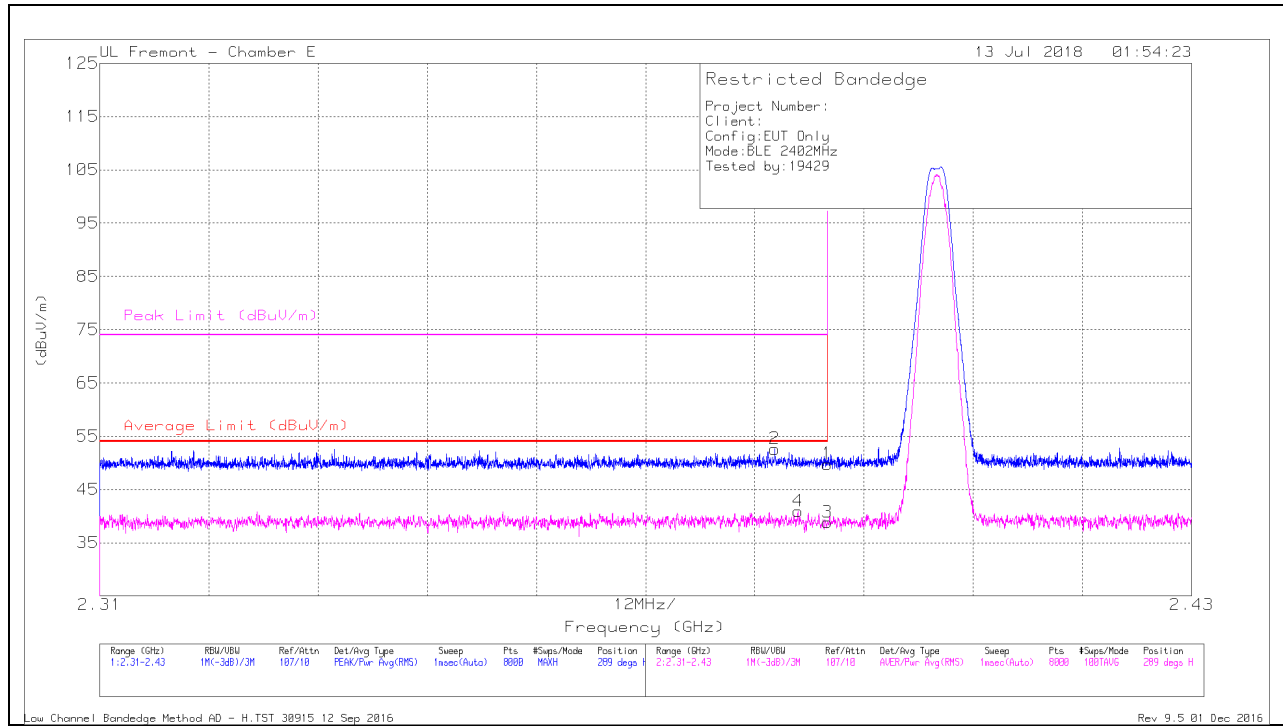
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.2. HIGH POWER BLE (2Mbps)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



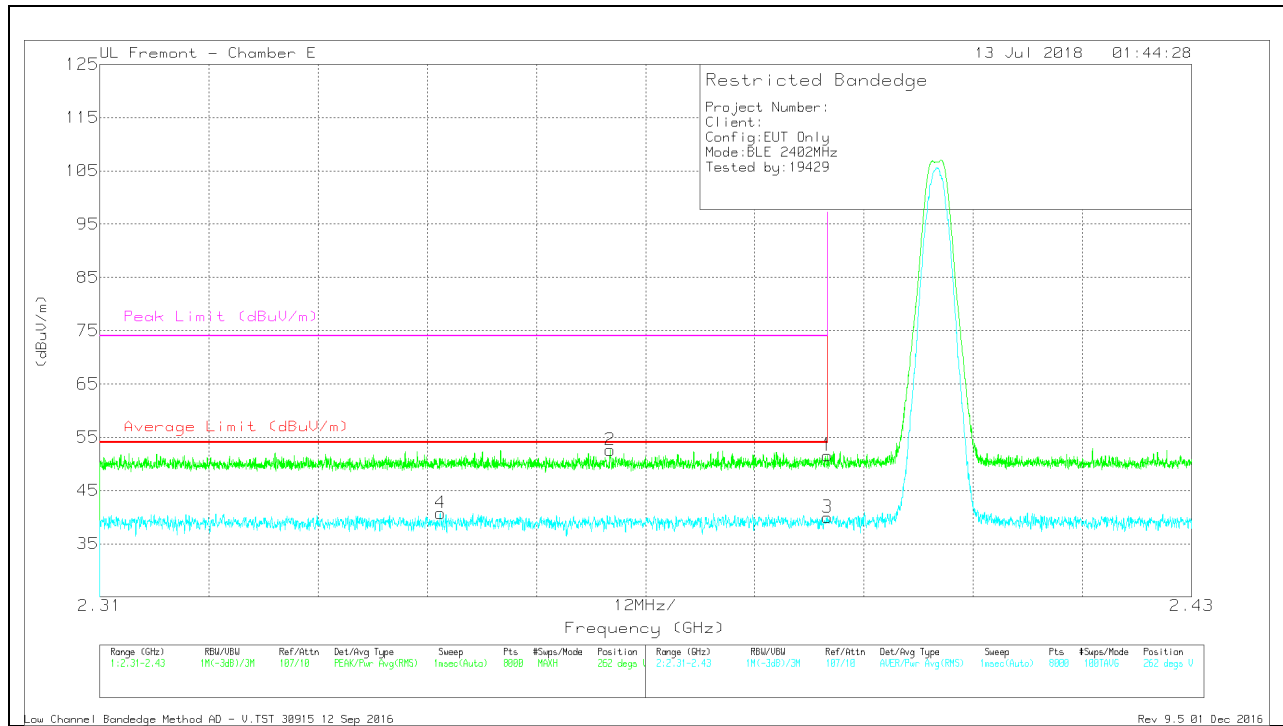
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Chl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.384	43.3	Pk	31.9	-22.6	52.6	-	-	74	-21.4	289	102	H
4	* 2.387	31.63	RMS	31.9	-22.6	40.93	54	-13.07	-	-	289	102	H
1	* 2.39	40.36	Pk	32	-22.6	49.76	-	-	74	-24.24	289	102	H
3	* 2.39	29.42	RMS	32	-22.6	38.82	54	-15.18	-	-	289	102	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 (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	42.18	Pk	32	-22.6	51.58	-	-	74	-22.42	262	345	V
2	* 2.366	43.4	Pk	31.9	-22.7	52.6	-	-	74	-21.4	262	345	V
3	* 2.39	30.56	RMS	32	-22.6	39.96	54	-14.04	-	-	262	345	V
4	* 2.347	31.65	RMS	31.8	-22.7	40.75	54	-13.25	-	-	262	345	V

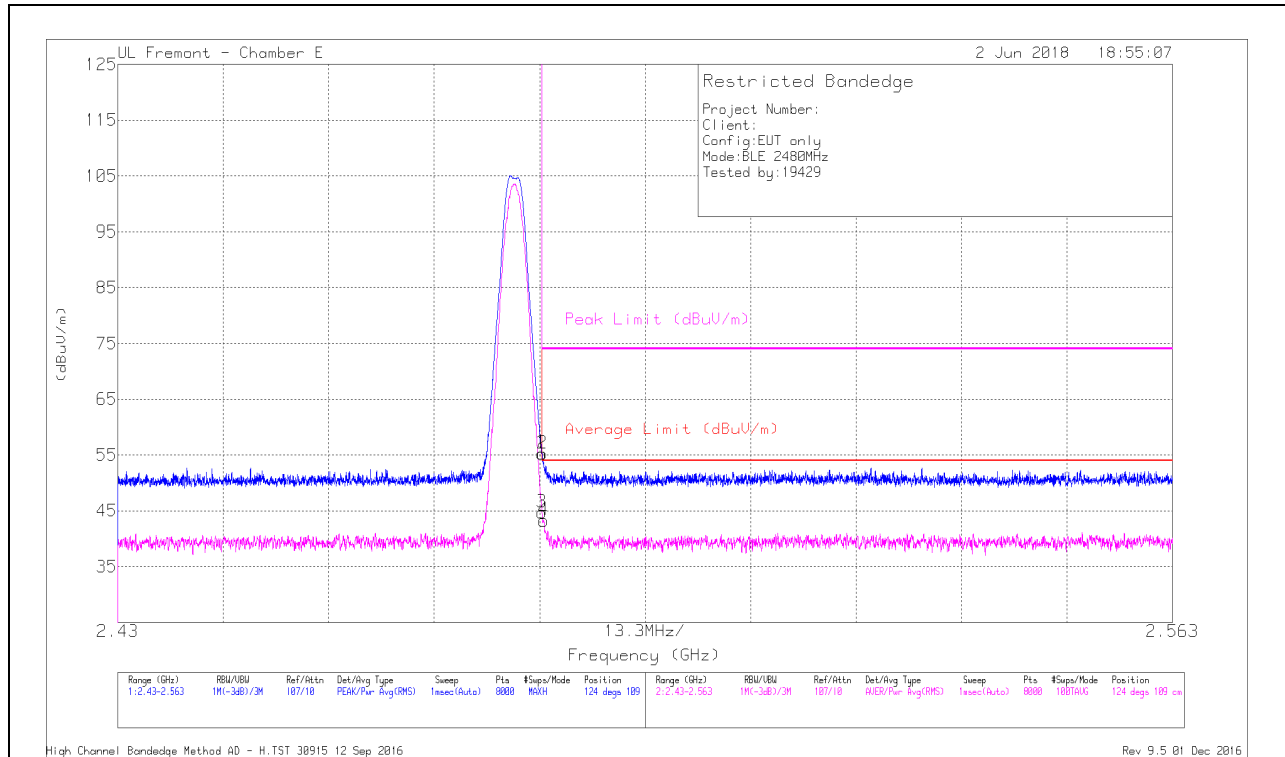
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



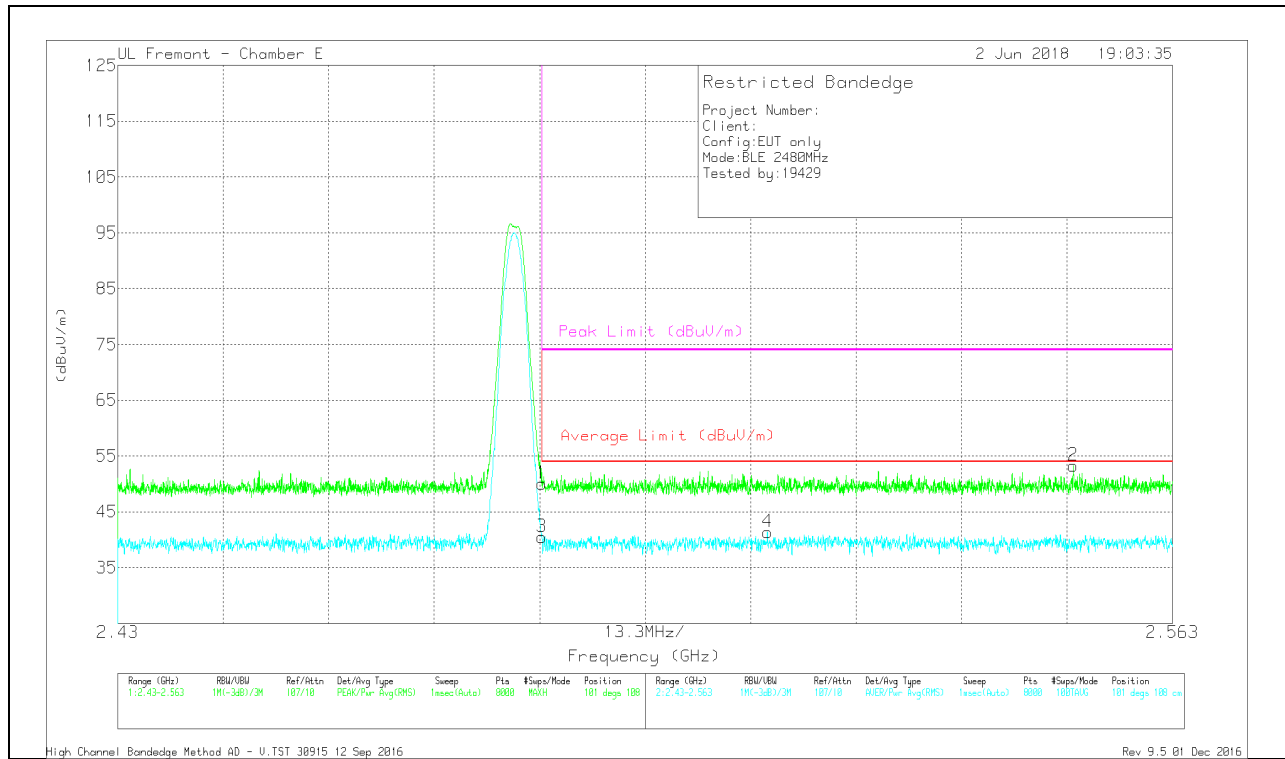
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.52	Pk	32.1	-22.3	55.32	-	-	74	-18.68	124	109	H
2	* 2.484	45.42	Pk	32.1	-22.3	55.22	-	-	74	-18.78	124	109	H
3	* 2.484	34.86	RMS	32.1	-22.3	44.66	54	-9.34	-	-	124	109	H
4	* 2.484	33.48	RMS	32.1	-22.3	43.28	54	-10.72	-	-	124	109	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 (dBm)	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	40.19	Pk	32.1	-22.3	49.99	-	-	74	-24.01	101	108	V
3	* 2.484	30.72	RMS	32.1	-22.3	40.52	54	-13.48	-	-	101	108	V
4	2.512	31.42	RMS	32.1	-22.2	41.32	54	-12.68	-	-	101	108	V
2	2.55	43.5	Pk	32.1	-22.3	53.3	-	-	74	-20.7	101	108	V

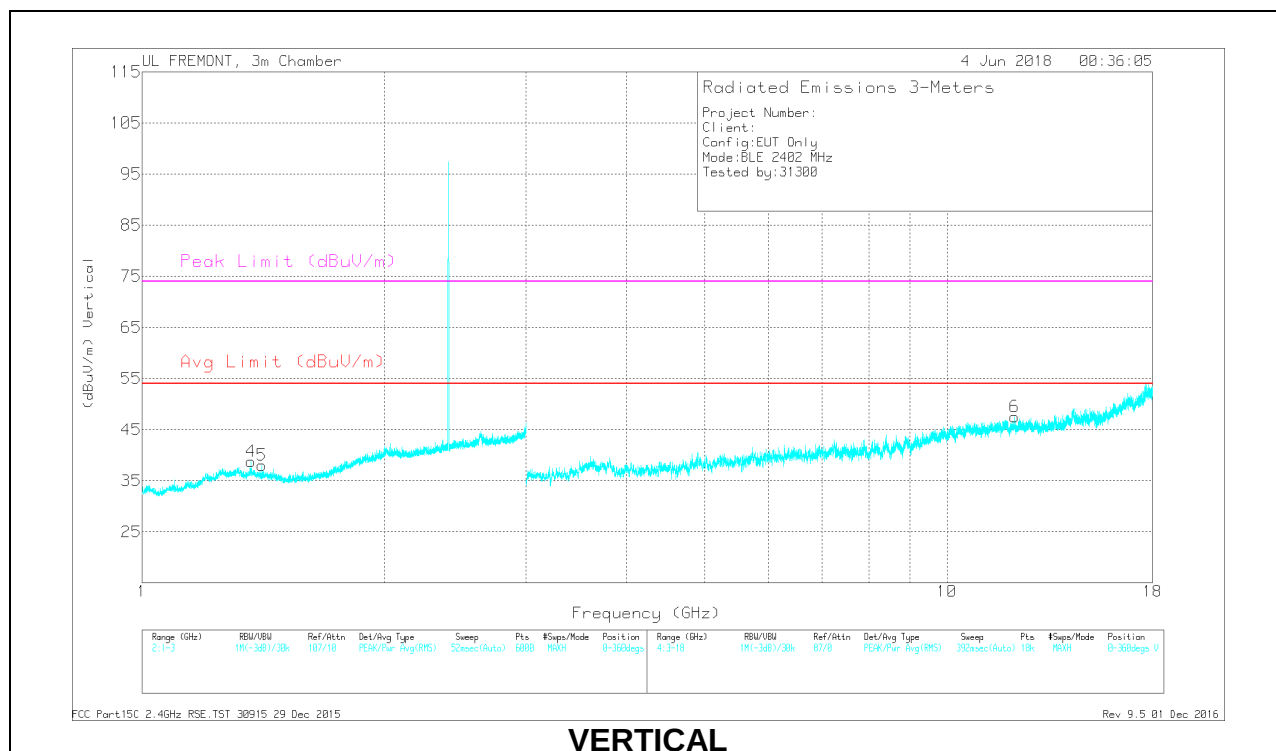
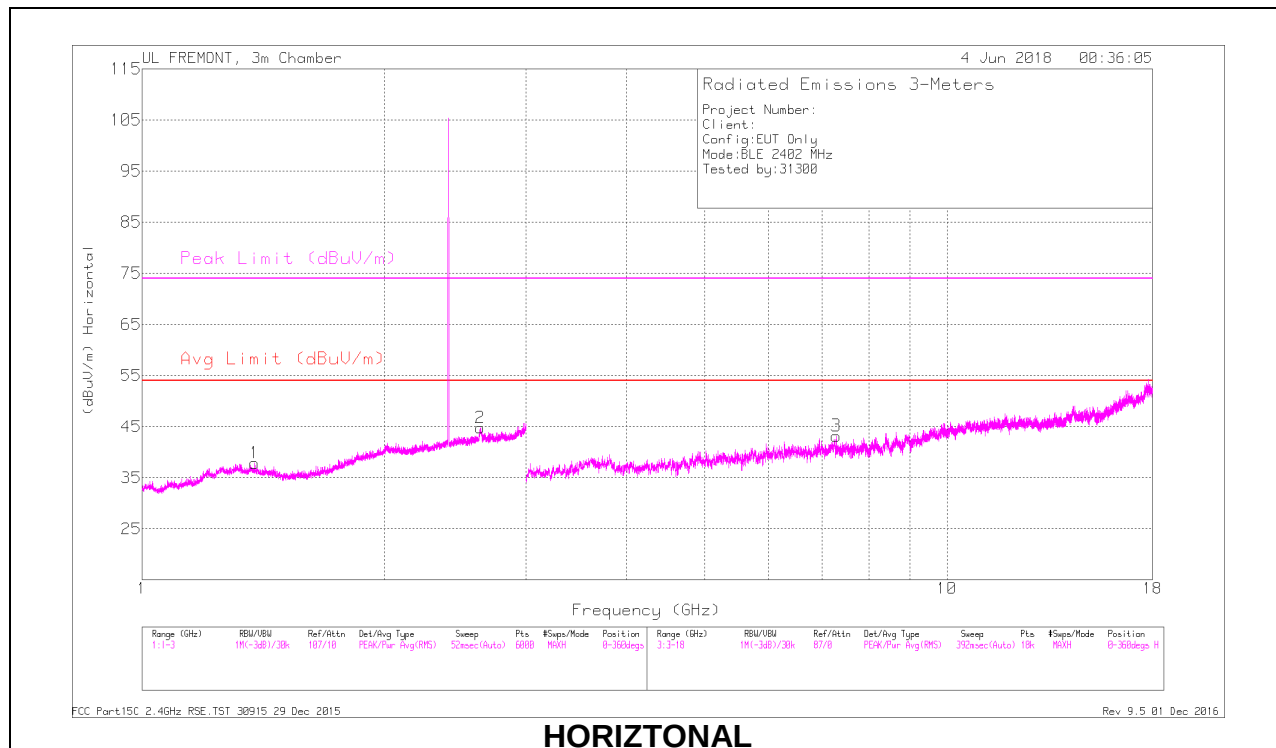
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

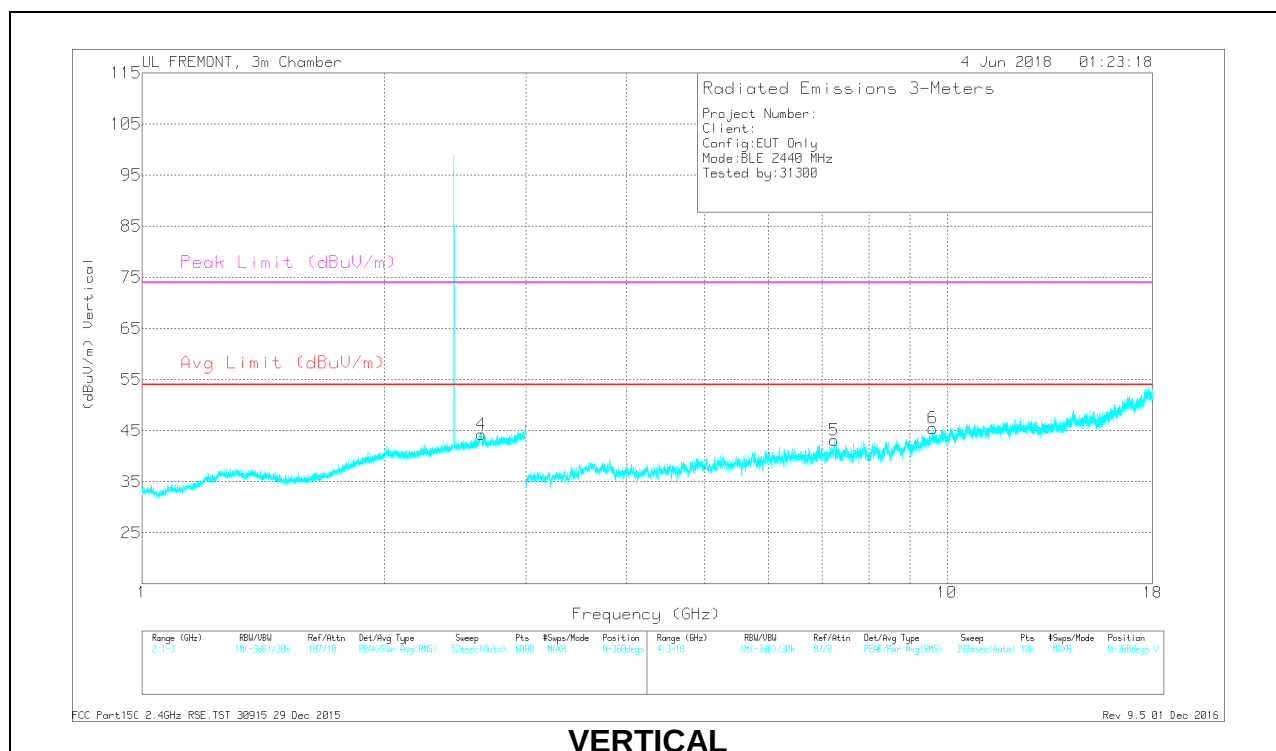
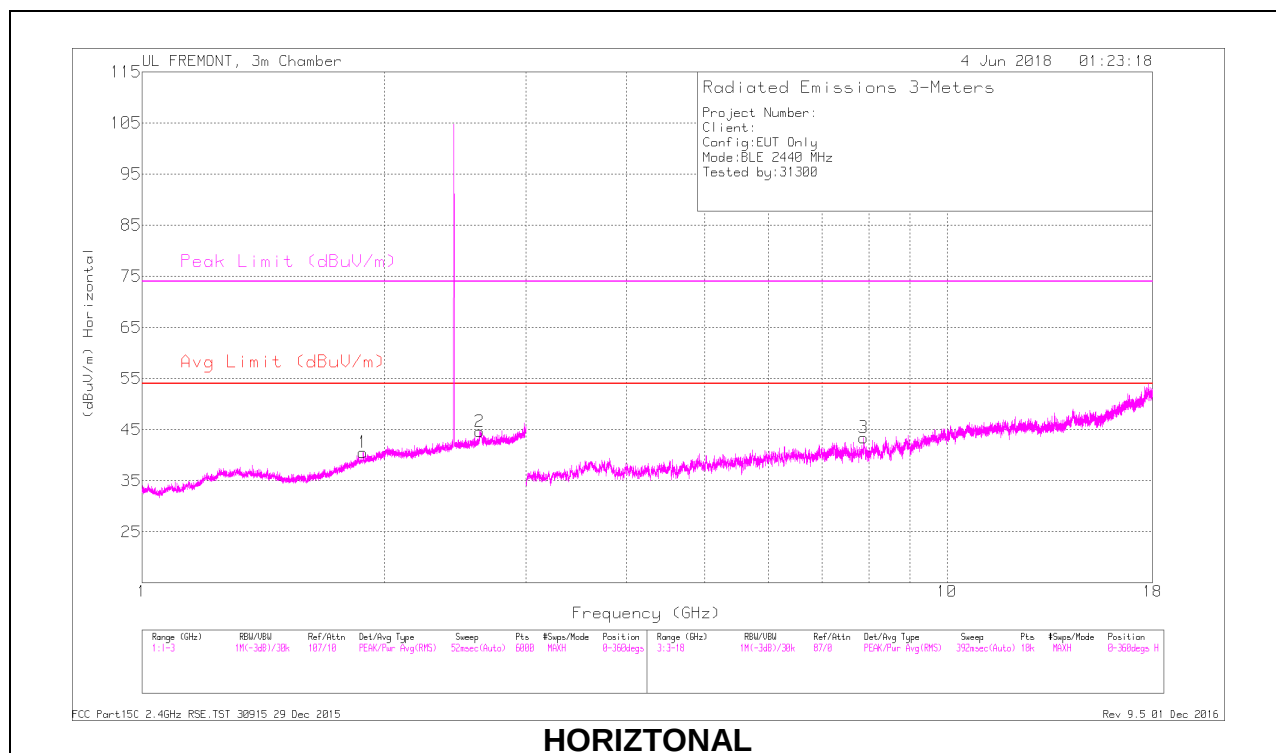
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.381	37.68	PK2	29.3	-22.4	44.58	-	-	74	-29.42	344	162	H
	* 1.38	25.31	MAv1	29.3	-22.4	32.21	54	-21.79	-	-	344	162	H
5	* 1.41	37.34	PK2	29.2	-22.4	44.14	-	-	74	-29.86	54	393	V
	* 1.41	25.24	MAv1	29.2	-22.4	32.04	54	-21.96	-	-	54	393	V
4	* 1.368	37.97	PK2	29.4	-22.4	44.97	-	-	74	-29.03	173	302	V
	* 1.367	25.43	MAv1	29.4	-22.3	32.53	54	-21.47	-	-	173	302	V
3	* 7.286	37.46	PK2	35.7	-23.5	49.66	-	-	74	-24.34	165	391	H
	* 7.286	26.05	MAv1	35.7	-23.6	38.15	54	-15.85	-	-	165	391	H
6	* 12.144	36.59	PK2	39.1	-20.9	54.79	-	-	74	-19.21	30	101	V
	* 12.143	24.75	MAv1	39.1	-20.9	42.95	54	-11.05	-	-	30	101	V
2	2.629	39.07	PK2	32.5	-20.4	51.17	-	-	-	-	196	102	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

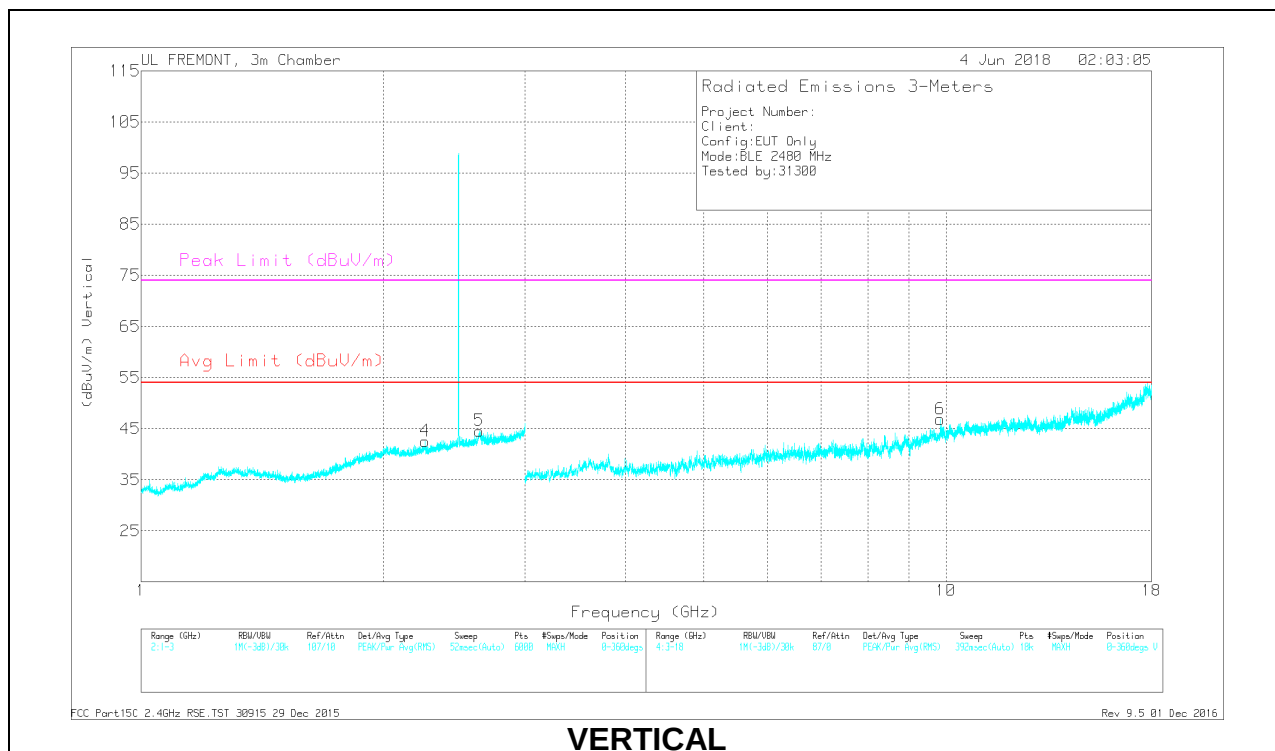
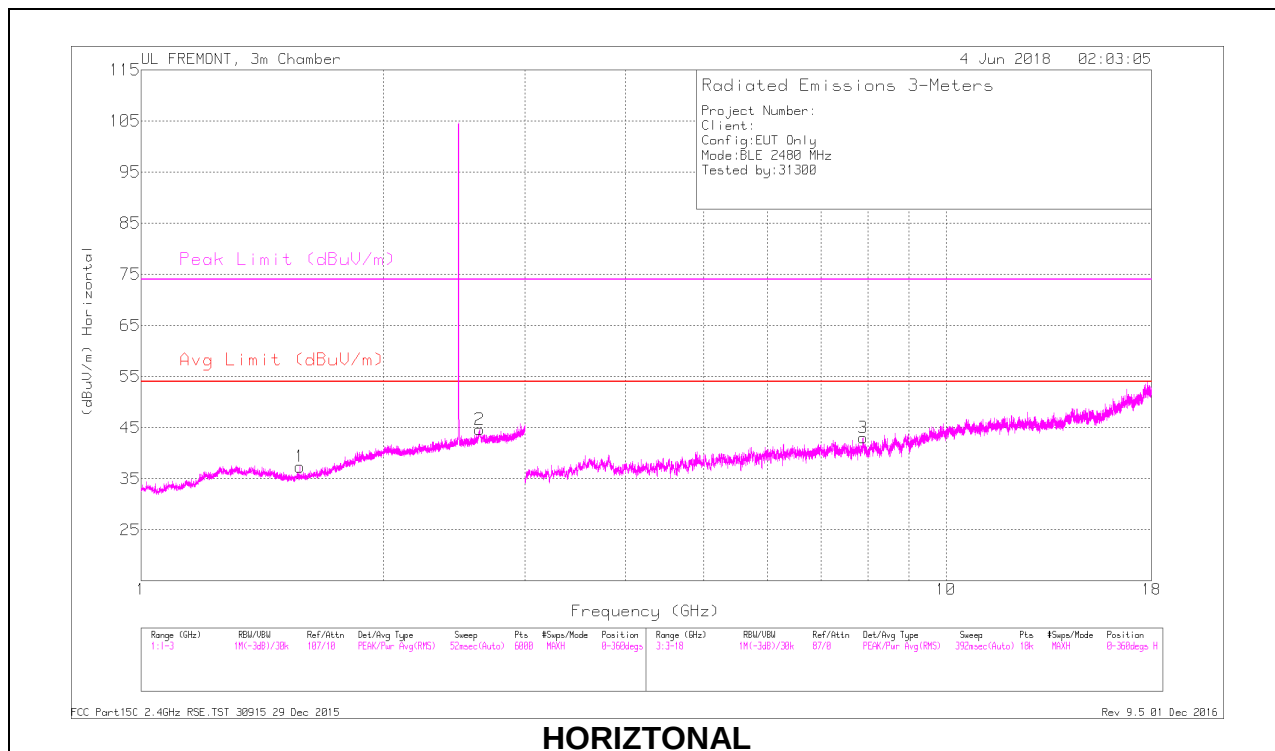


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 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	1.88	37.11	PK2	31.2	-21.8	46.51	-	-	-	-	2	134	H
2	2.63	39.56	PK2	32.5	-20.4	51.66	-	-	-	-	212	255	H
4	2.641	38.52	PK2	32.6	-20.8	50.32	-	-	-	-	170	286	V
5	7.246	38.4	PK2	35.7	-24.1	50	-	-	-	-	96	145	V
3	7.879	36.28	PK2	35.8	-22.1	49.98	-	-	-	-	308	162	H
6	9.599	35.75	PK2	36.9	-21	51.65	-	-	-	-	155	133	V

PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

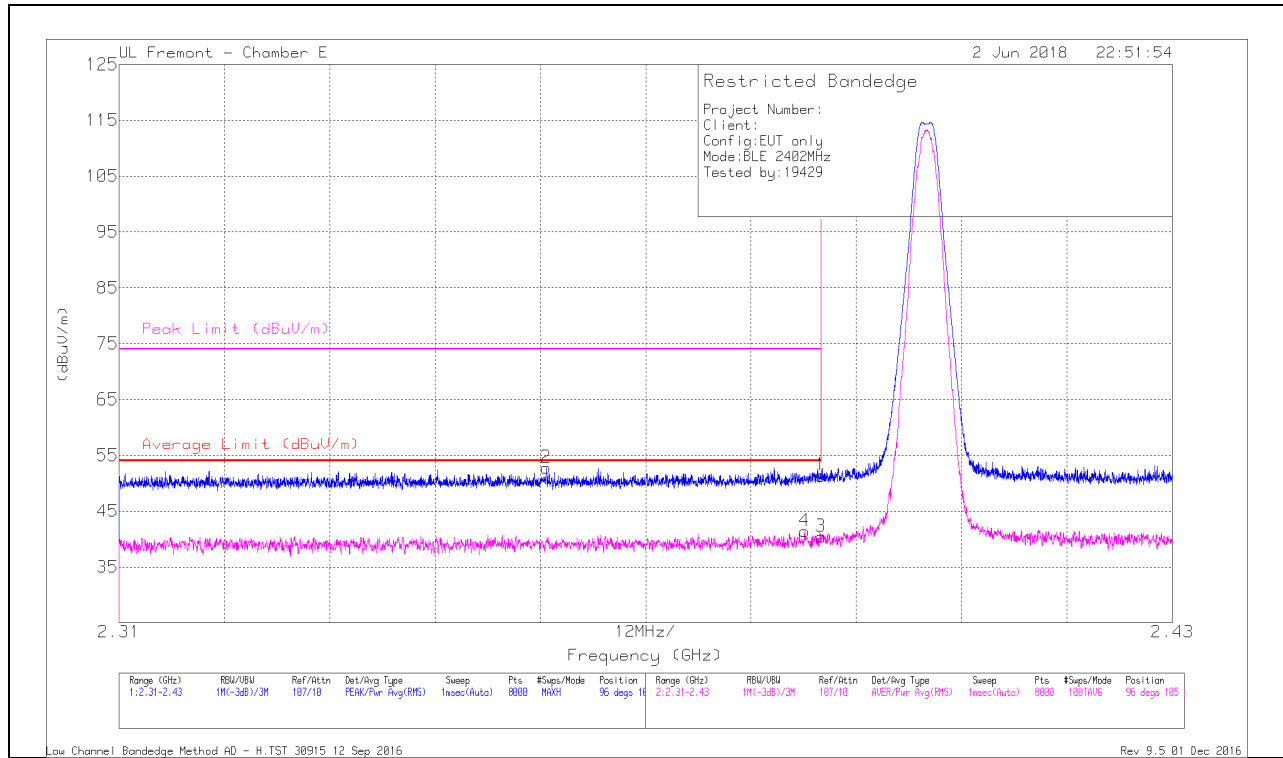
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.576	37.88	PK2	28	-22	43.88	-	-	74	-30.12	233	123	H
	* 1.575	25.31	MAv1	28	-22	31.31	54	-22.69	-	-	233	123	H
4	* 2.253	37.9	PK2	31.9	-21.4	48.4	-	-	74	-25.6	349	200	V
5	2.63	39.1	PK2	32.5	-20.3	51.3	-	-	-	-	275	173	V
2	2.635	39.04	PK2	32.6	-20.1	51.54	-	-	-	-	249	200	H
3	7.891	37.22	PK2	35.8	-23.1	49.92	-	-	-	-	197	133	H
6	9.839	35.71	PK2	37.2	-20.5	52.41	-	-	-	-	309	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 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



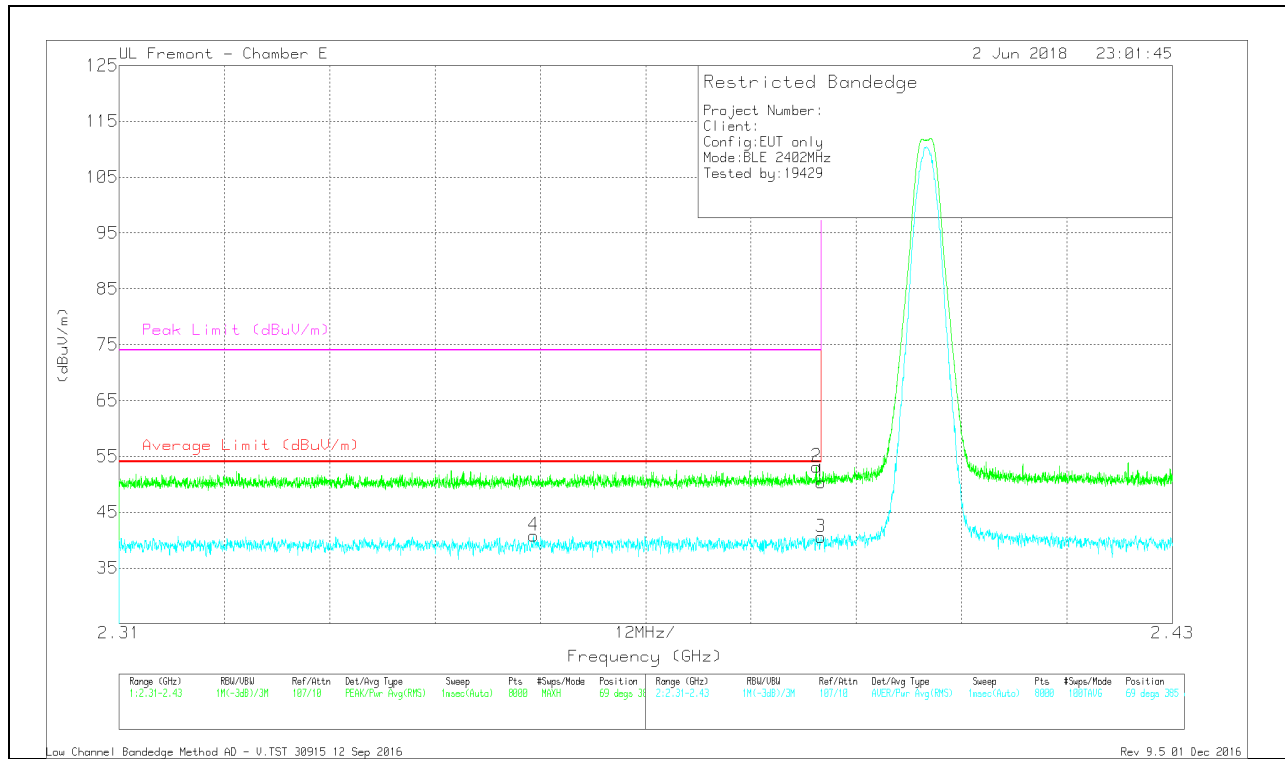
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.97	Pk	32	-22.6	51.37	-	-	74	-22.63	96	105	H
2	* 2.359	43.57	Pk	31.9	-22.7	52.77	-	-	74	-21.23	96	105	H
3	* 2.39	31.03	RMS	32	-22.6	40.43	54	-13.57	-	-	96	105	H
4	* 2.388	32.12	RMS	31.9	-22.6	41.42	54	-12.58	-	-	96	105	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 (dBm)	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	40.98	Pk	32	-22.6	50.38	-	-	74	-23.62	69	385	V
2	* 2.389	43.75	Pk	32	-22.6	53.15	-	-	74	-20.85	69	385	V
3	* 2.39	31.15	RMS	32	-22.6	40.55	54	-13.45	-	-	69	385	V
4	* 2.357	31.62	RMS	31.9	-22.7	40.82	54	-13.18	-	-	69	385	V

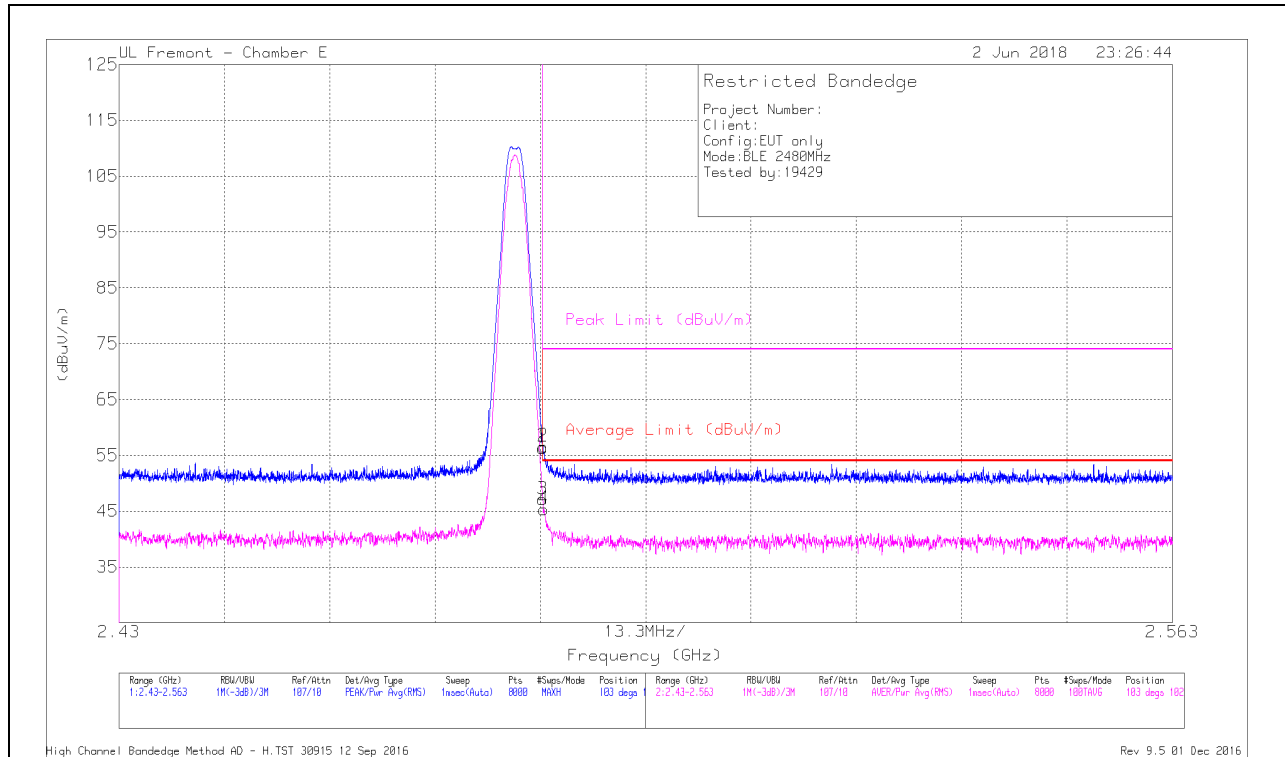
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



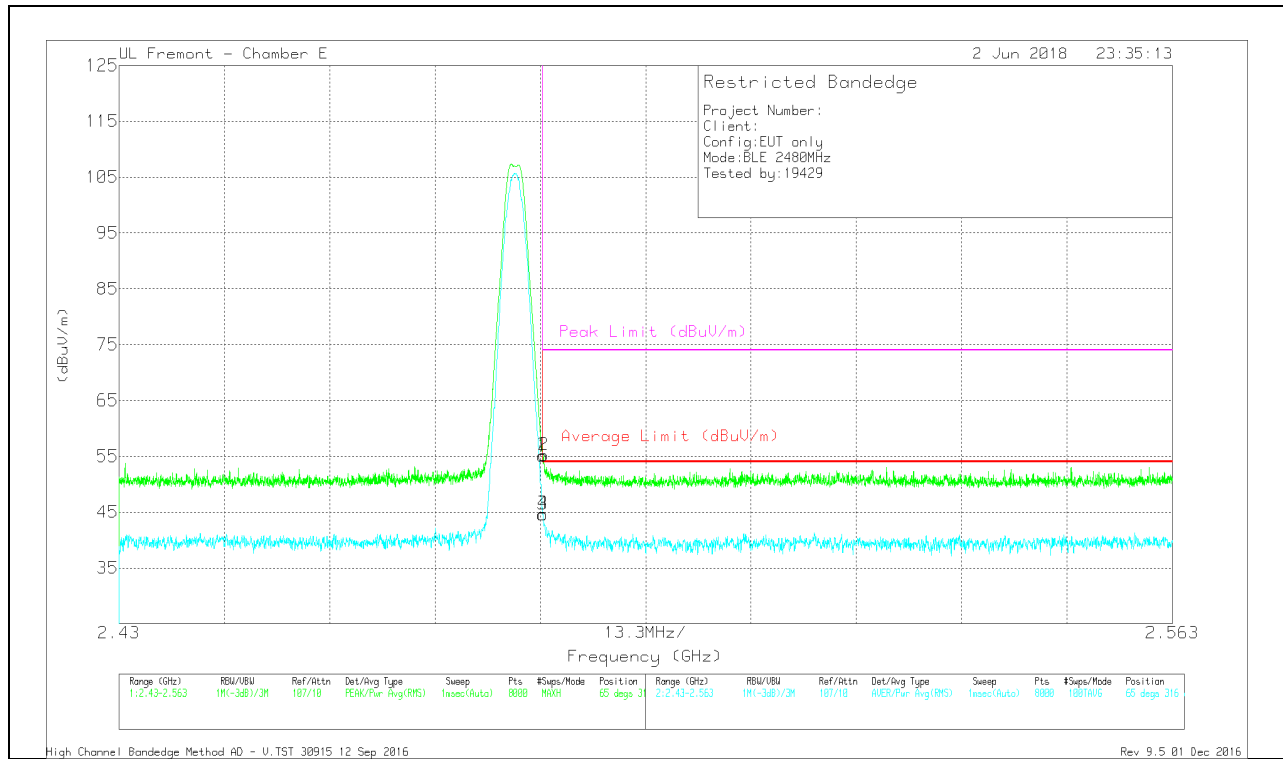
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.58	Pk	32.1	-22.3	56.38	-	-	74	-17.62	103	102	H
2	* 2.484	46.78	Pk	32.1	-22.3	56.58	-	-	74	-17.42	103	102	H
3	* 2.484	37.33	RMS	32.1	-22.3	47.13	54	-6.87	-	-	103	102	H
4	* 2.484	35.54	RMS	32.1	-22.3	45.34	54	-8.66	-	-	103	102	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)	Ampl/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	45.27	Pk	32.1	-22.3	55.07	-	-	74	-18.93	65	316	V
2	* 2.484	45.39	Pk	32.1	-22.3	55.19	-	-	74	-18.81	65	316	V
3	* 2.484	34.81	RMS	32.1	-22.3	44.61	54	-9.39	-	-	65	316	V
4	* 2.484	34.85	RMS	32.1	-22.3	44.65	54	-9.35	-	-	65	316	V

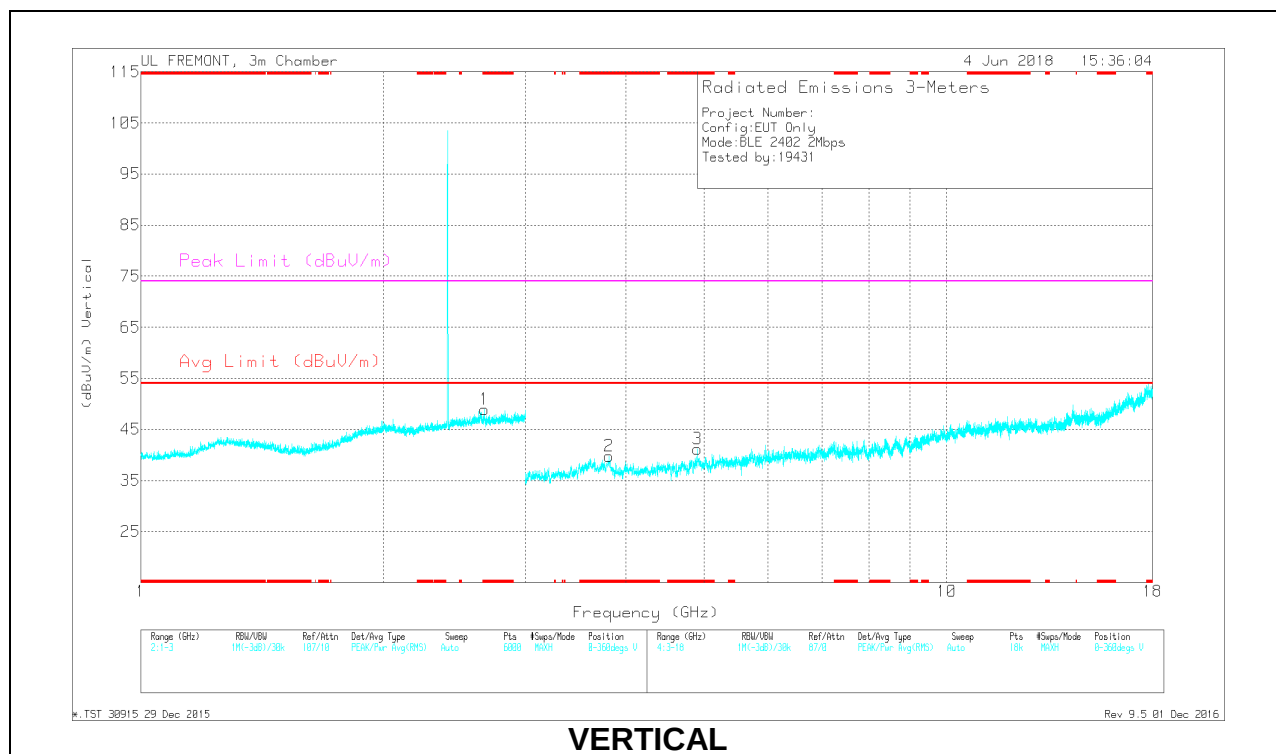
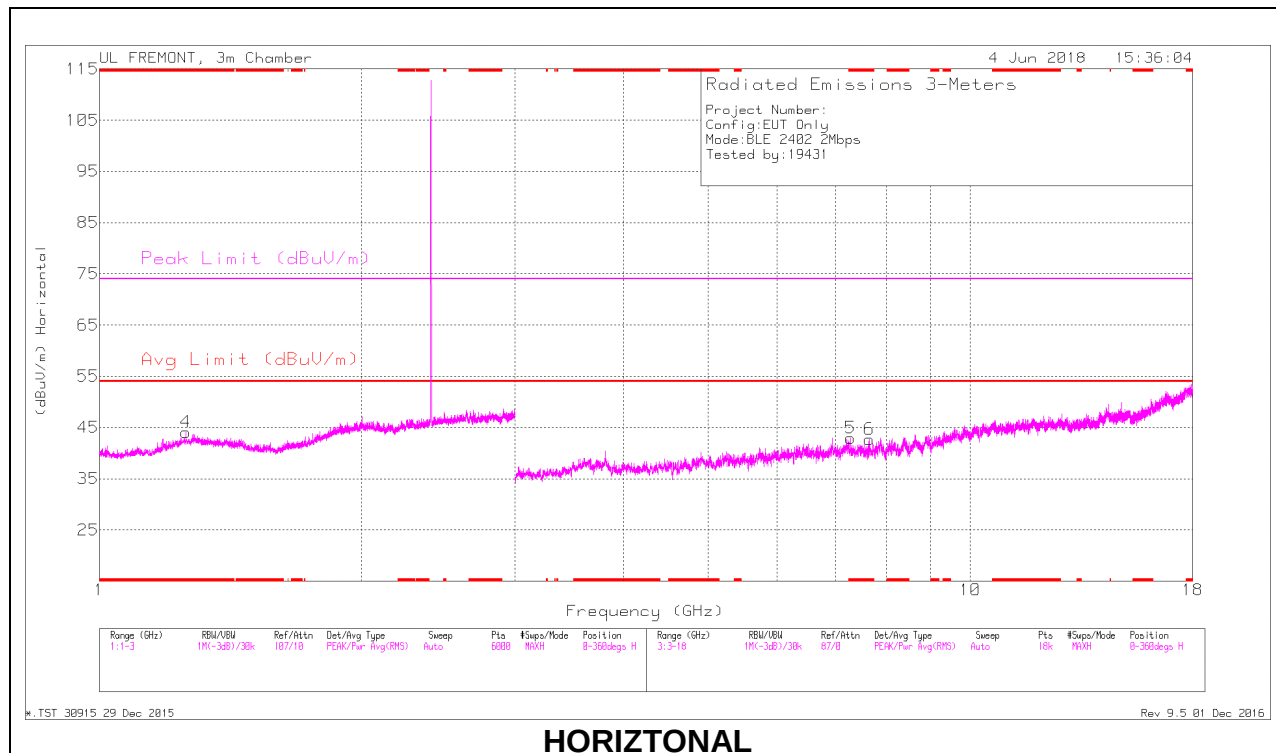
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

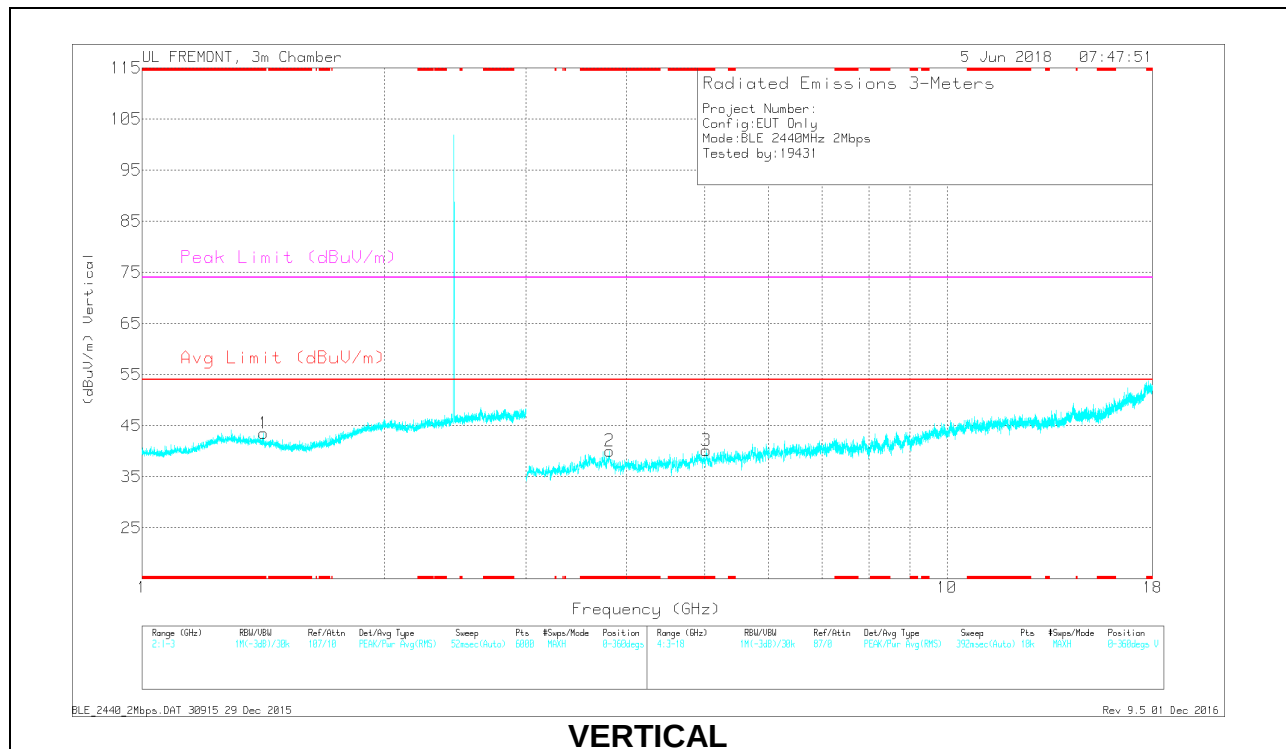
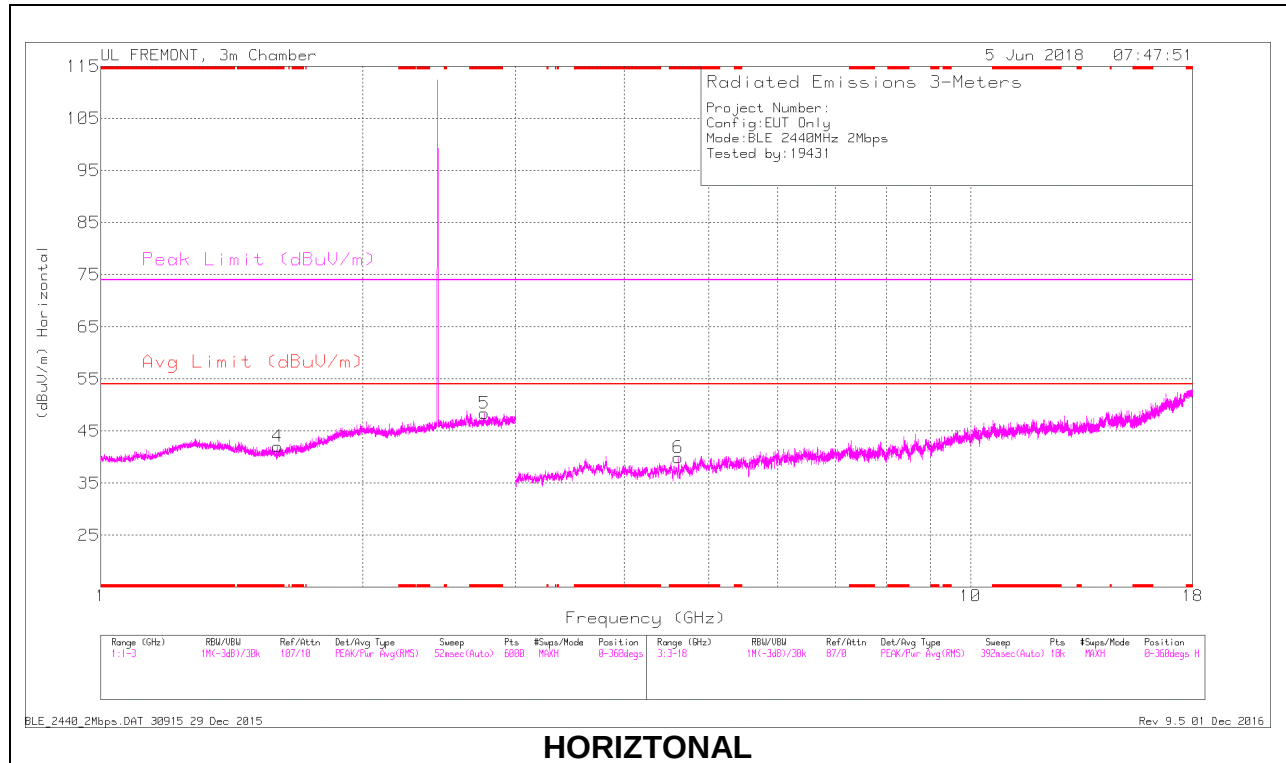
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.254	43.01	PK2	29.9	-22.1	50.81	-	-	74	-23.19	155	369	H
	* 1.256	30.56	MAv1	29.9	-22.1	38.36	54	-15.64	-	-	155	369	H
1	* 2.669	42.4	PK2	32.6	-19.9	55.1	-	-	74	-18.9	59	200	V
	* 2.67	30.16	MAv1	32.6	-20.1	42.66	54	-11.34	-	-	59	200	V
5	* 7.284	38	PK2	35.7	-23.1	50.6	-	-	74	-23.4	1	274	H
	* 7.287	26.28	MAv1	35.7	-23.9	38.08	54	-15.92	-	-	1	274	H
6	* 7.653	36.96	PK2	35.8	-23.1	49.66	-	-	74	-24.34	219	244	H
	* 7.654	25.19	MAv1	35.8	-23.4	37.59	54	-16.41	-	-	219	244	H
2	* 3.807	40.38	PK2	33.7	-27	47.08	-	-	74	-26.92	257	118	V
	* 3.81	28.76	MAv1	33.7	-26.7	35.76	54	-18.24	-	-	257	118	V
3	* 4.903	40.31	PK2	34	-26.2	48.11	-	-	74	-25.89	127	196	V
	* 4.906	28.2	MAv1	34	-26.6	35.6	54	-18.4	-	-	127	196	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

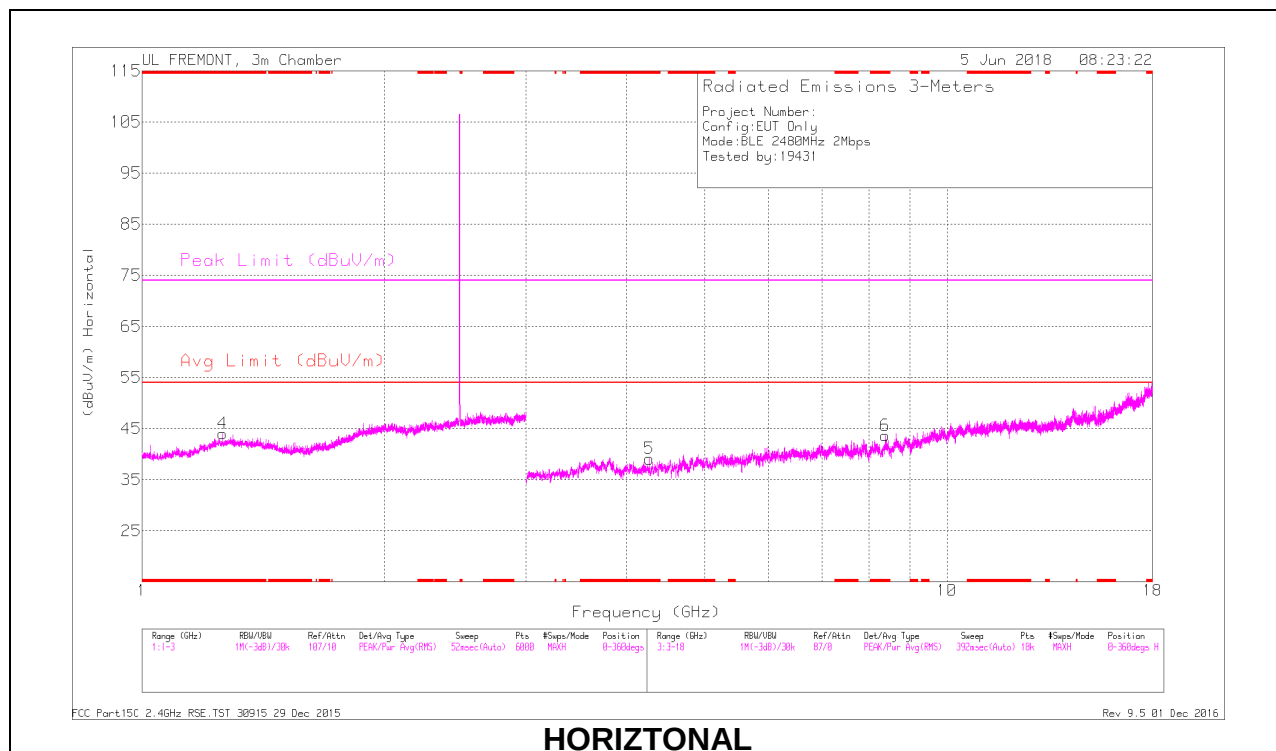
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.598	41.49	PK2	28.1	-21.4	48.19	-	-	74	-25.81	209	109	H
	* 1.598	29.88	MAv1	28.1	-21.4	36.58	54	-17.42	-	-	209	109	H
5	* 2.761	42.41	PK2	32.5	-20.1	54.81	-	-	74	-19.19	153	400	H
	* 2.761	30.28	MAv1	32.5	-20	42.78	54	-11.22	-	-	153	400	H
1	* 1.415	42.52	PK2	29.1	-21.7	49.92	-	-	74	-24.08	228	399	V
	* 1.415	30.38	MAv1	29.2	-21.7	37.88	54	-16.12	-	-	228	399	V
6	* 4.611	38.61	PK2	34.1	-26.3	46.41	-	-	74	-27.59	153	286	H
	* 4.614	26.86	MAv1	34.1	-26.5	34.46	54	-19.54	-	-	153	286	H
2	* 3.811	40.3	PK2	33.7	-26.8	47.2	-	-	74	-26.8	351	335	V
	* 3.812	28.86	MAv1	33.7	-26.9	35.66	54	-18.34	-	-	351	335	V
3	* 5.024	37.77	PK2	34.2	-25	46.97	-	-	74	-27.03	24	398	V
	* 5.024	25.68	MAv1	34.2	-24.8	35.08	54	-18.92	-	-	24	398	V

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

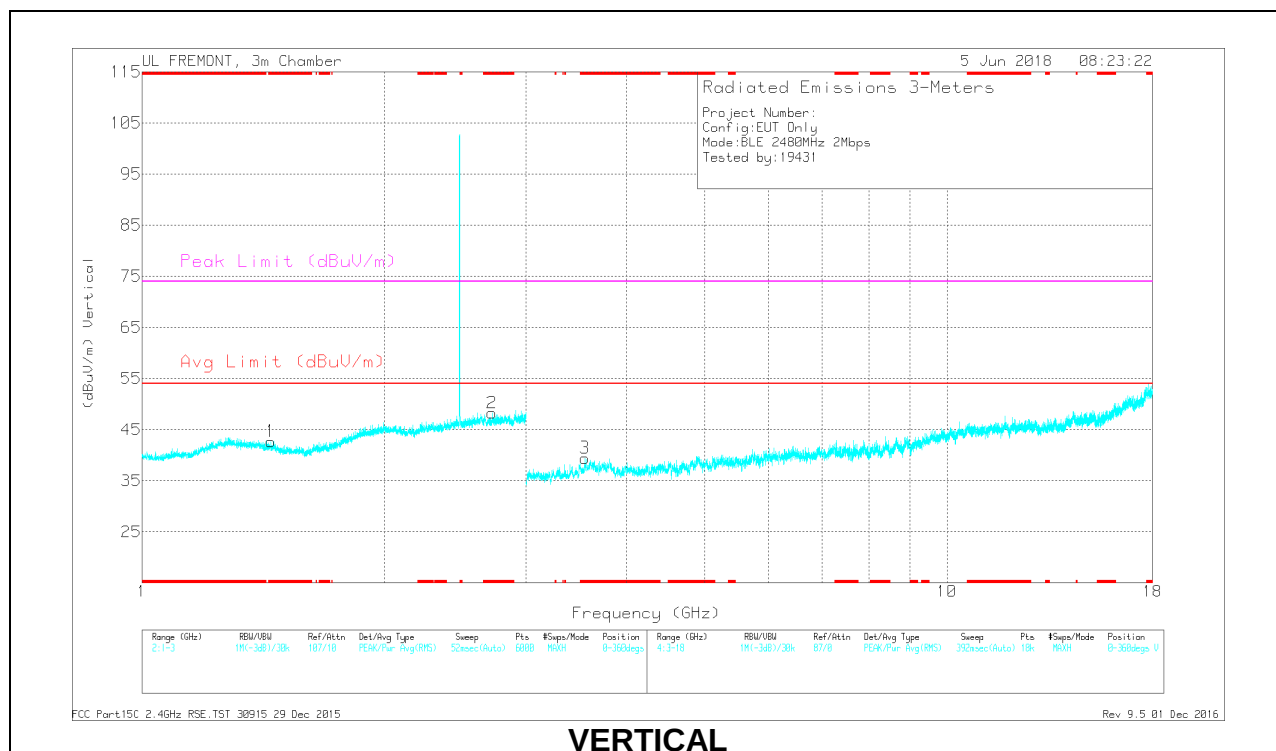
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.258	42.61	PK2	29.9	-22.1	50.41	-	-	74	-23.59	143	396	H
	* 1.258	30.55	MAv1	29.9	-22.1	38.35	54	-15.65	-	-	143	396	H
1	* 1.446	42.08	PK2	28.9	-21.4	49.58	-	-	74	-24.42	324	148	V
	* 1.446	30.21	MAv1	28.9	-21.4	37.71	54	-16.29	-	-	324	148	V
2	* 2.721	41.17	PK2	32.5	-19.2	54.47	-	-	74	-19.53	97	174	V
	* 2.723	29.3	MAv1	32.5	-19.4	42.4	54	-11.6	-	-	97	174	V
5	* 4.269	40.12	PK2	33.5	-28.4	45.22	-	-	74	-28.78	229	229	H
	* 4.27	28.45	MAv1	33.5	-28.5	33.45	54	-20.55	-	-	229	229	H
6	* 8.377	35.79	PK2	35.7	-21.8	49.69	-	-	74	-24.31	233	352	H
	* 8.378	23.96	MAv1	35.7	-21.6	38.06	54	-15.94	-	-	233	352	H
3	* 3.552	38.95	PK2	34.7	-27.4	46.25	-	-	74	-27.75	329	123	V
	* 3.55	27.27	MAv1	34.7	-27.7	34.27	54	-19.73	-	-	329	123	V

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

PK2 - KDB558074 Method: Maximum Peak

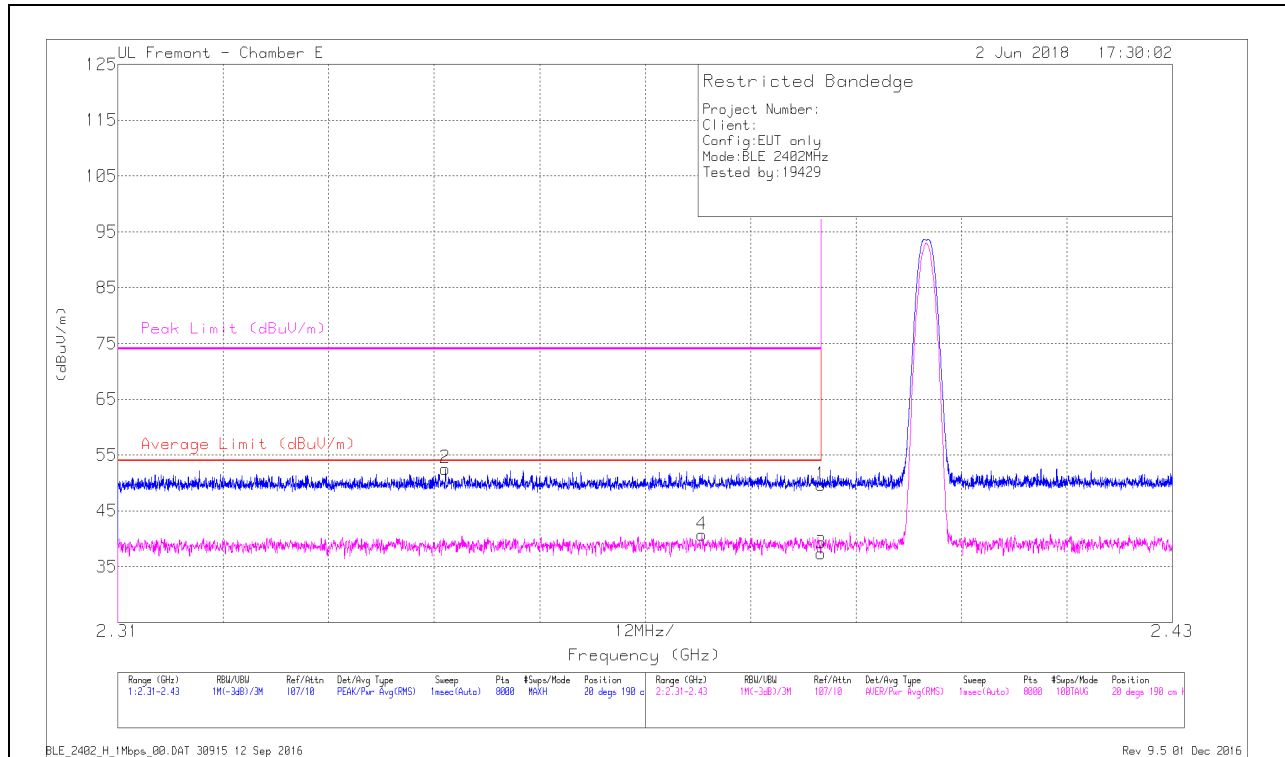
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.3. LOW POWER BLE (1Mbps)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



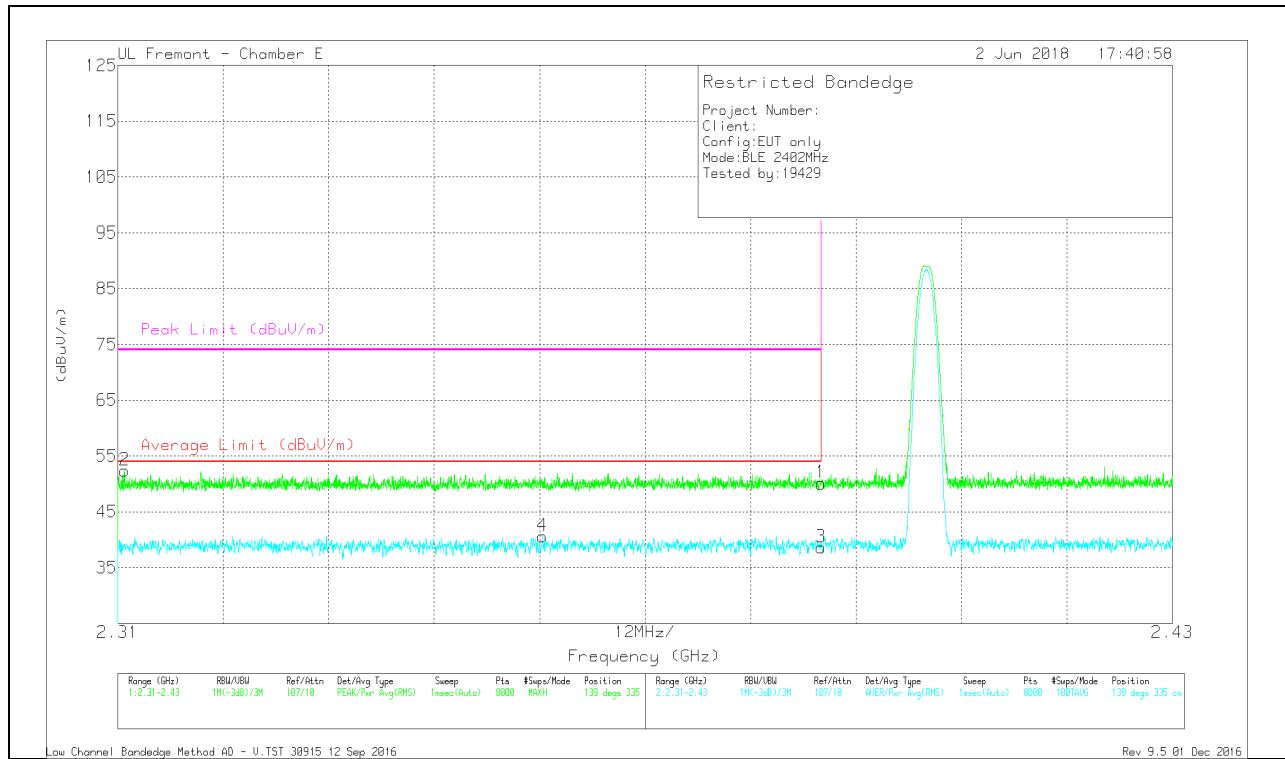
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.31	Pk	32	-22.6	49.71	-	-	74	-24.29	20	190	H
2	* 2.347	43.49	Pk	31.8	-22.7	52.59	-	-	74	-21.41	20	190	H
3	* 2.39	27.93	RMS	32	-22.6	37.33	54	-16.67	-	-	20	190	H
4	* 2.376	31.44	RMS	31.9	-22.6	40.74	54	-13.26	-	-	20	190	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 (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	40.71	Pk	32	-22.6	50.11	-	-	74	-23.89	139	335	V
2	* 2.311	43.47	Pk	31.7	-22.8	52.37	-	-	74	-21.63	139	335	V
3	* 2.39	29.27	RMS	32	-22.6	38.67	54	-15.33	-	-	139	335	V
4	* 2.358	31.36	RMS	31.9	-22.7	40.56	54	-13.44	-	-	139	335	V

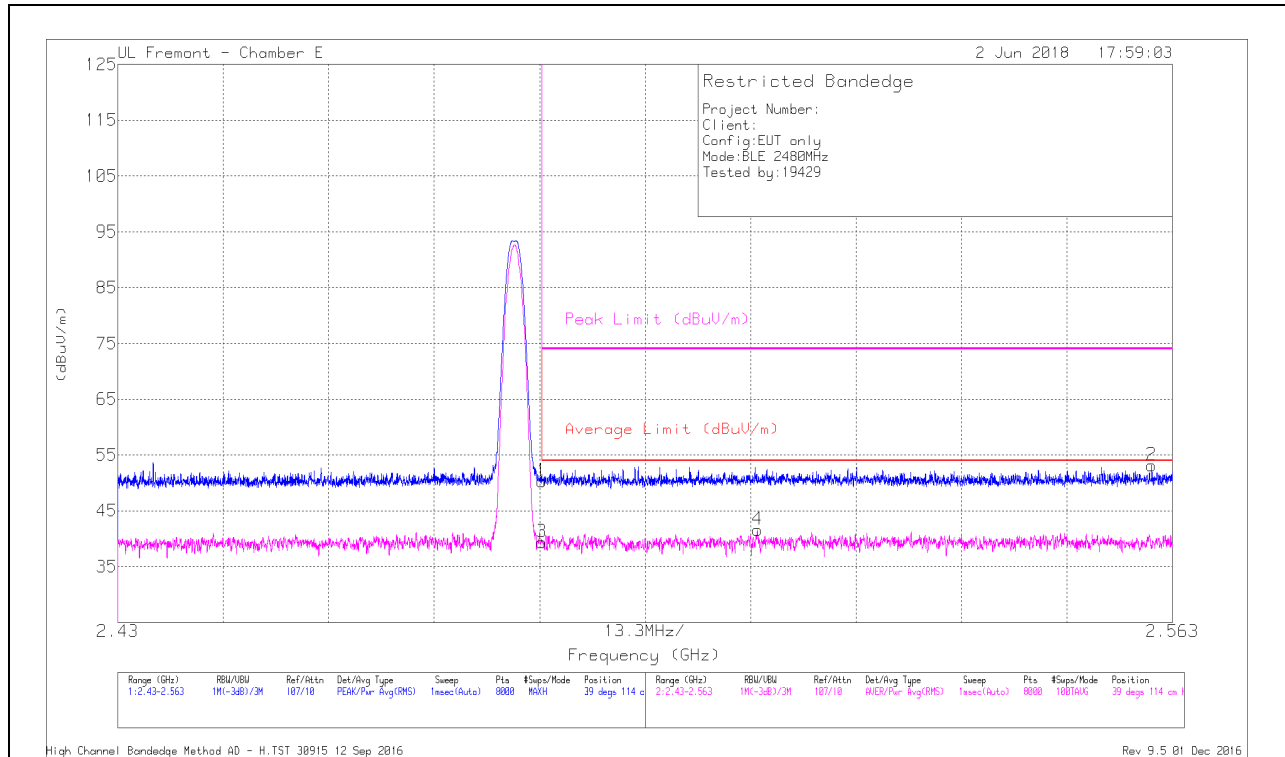
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



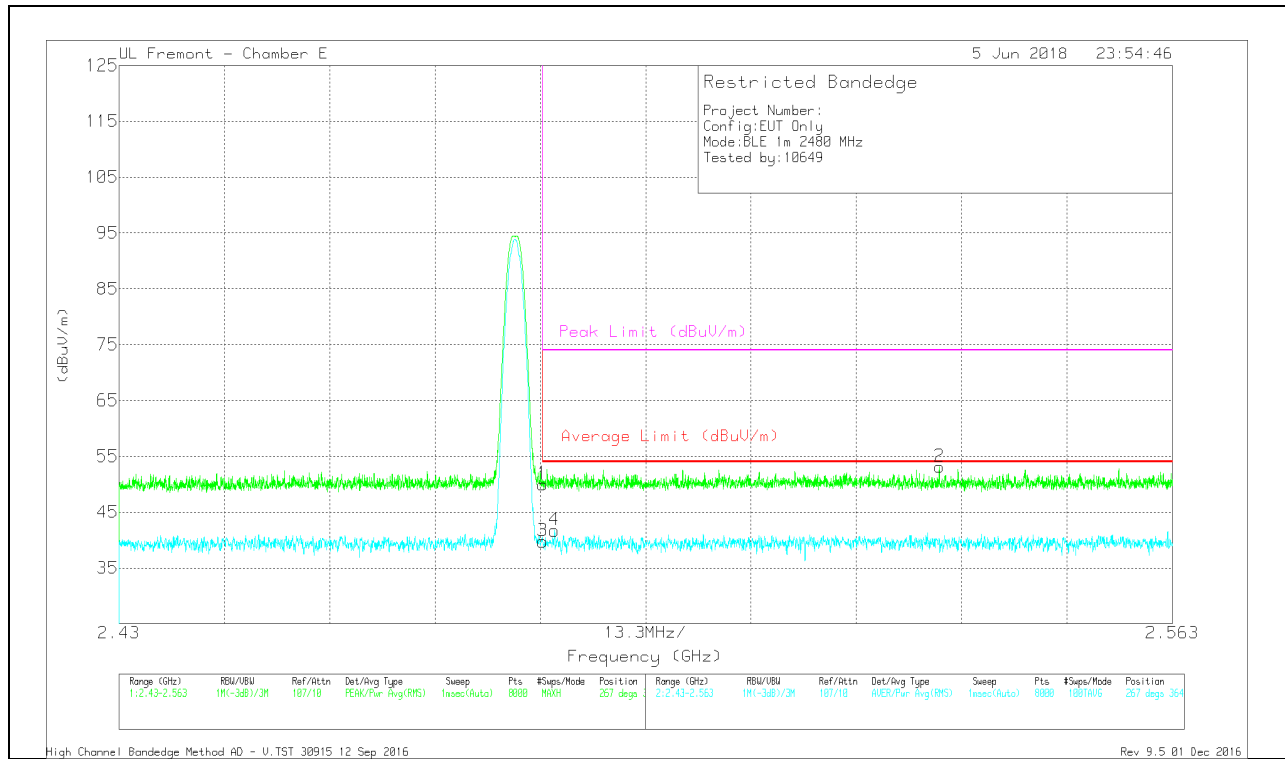
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/CbI/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.44	Pk	32.1	-22.3	50.24	-	-	74	-23.76	39	114	H
3	* 2.484	29.54	RMS	32.1	-22.3	39.34	54	-14.66	-	-	39	114	H
4	2.511	31.84	RMS	32.1	-22.3	41.64	54	-12.36	-	-	39	114	H
2	2.56	43.3	Pk	32.1	-22.3	53.1	-	-	74	-20.9	39	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 T346 (dBm)	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	40.19	Pk	32.1	-22.3	49.99	-	-	74	-24.01	267	364	V
3	* 2.484	29.98	RMS	32.1	-22.3	39.78	54	-14.22	-	-	267	364	V
4	* 2.485	32.03	RMS	32.1	-22.4	41.73	54	-12.27	-	-	267	364	V
2	2.534	43.41	Pk	32.1	-22.4	53.11	-	-	74	-20.89	267	364	V

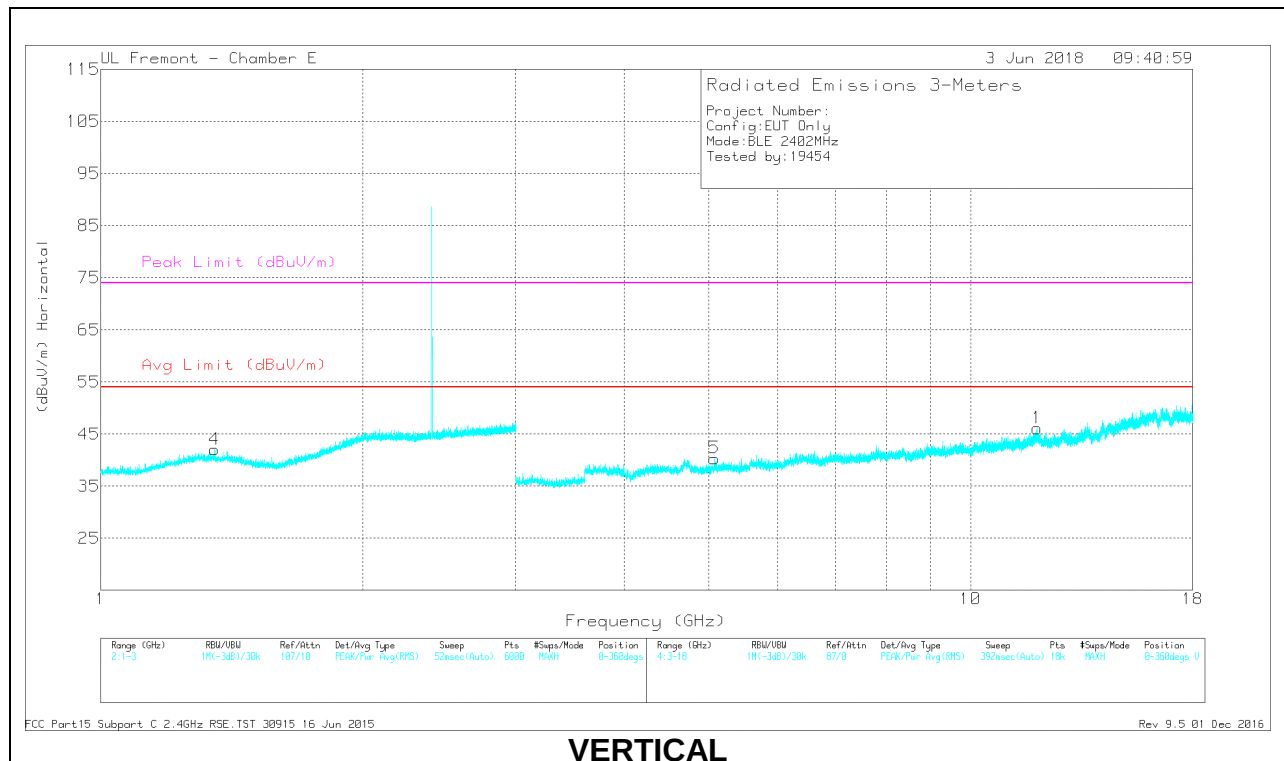
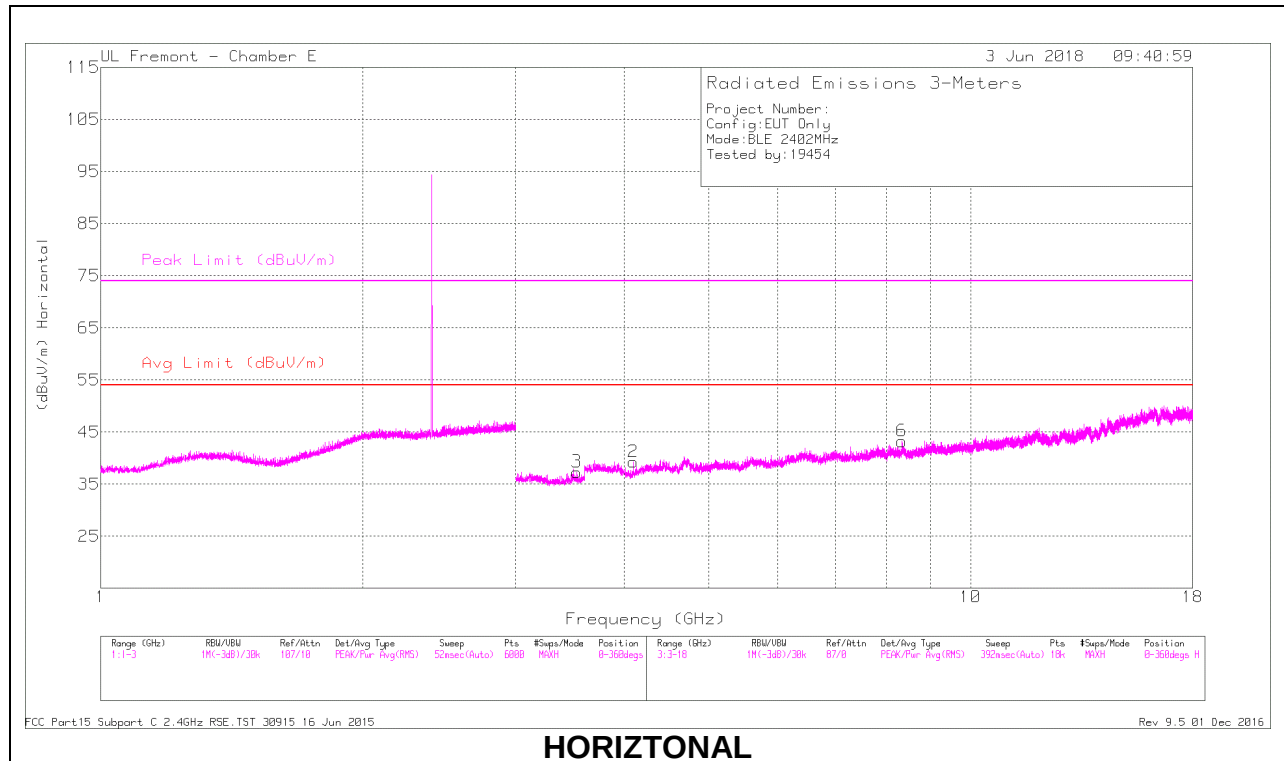
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

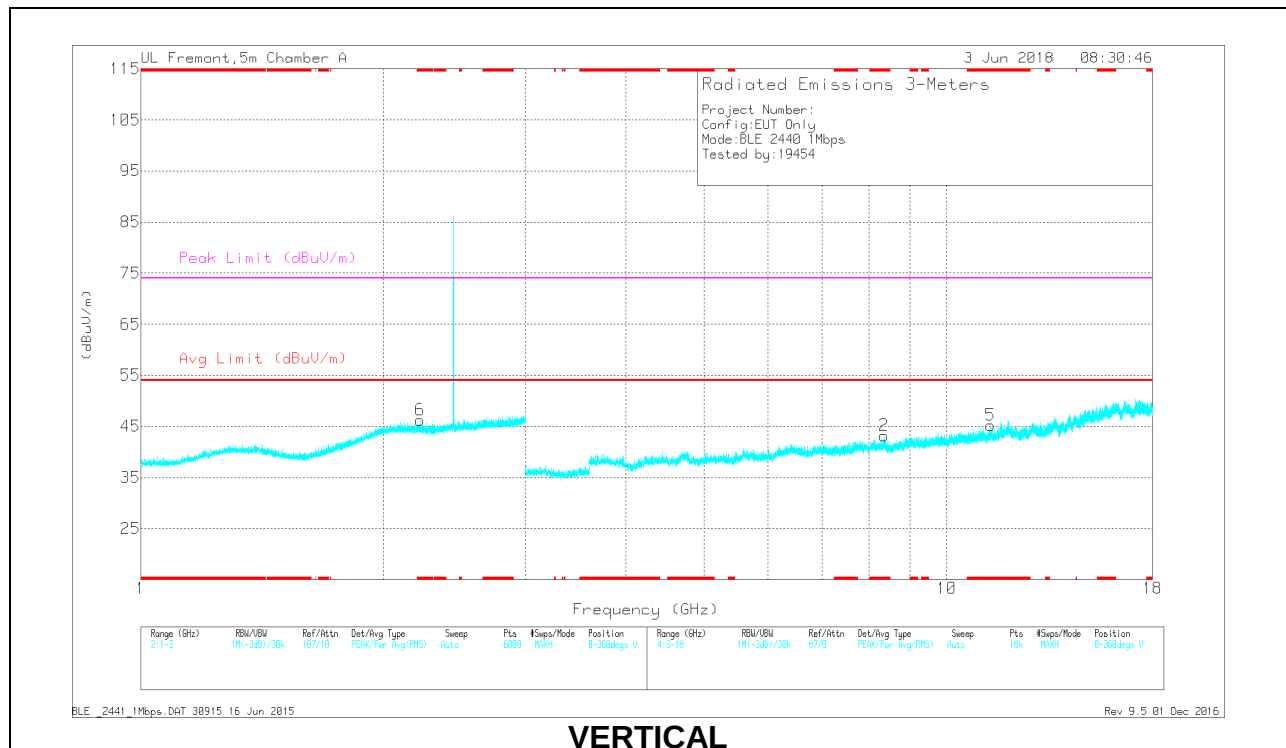
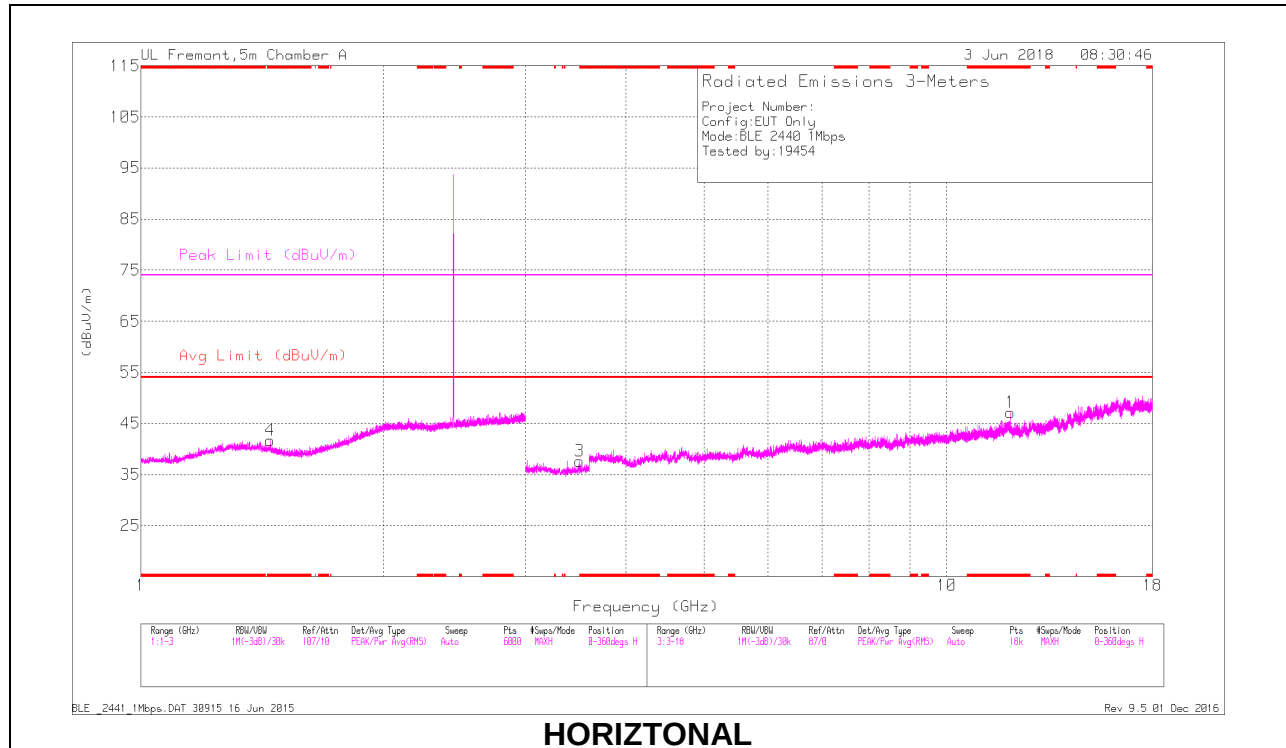
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.353	45.08	PK2	28.8	-25.2	48.68	-	-	74	-25.32	106	299	V
	* 1.352	32.28	MAv1	28.8	-25.2	35.88	54	-18.12	-	-	106	299	V
2	* 4.096	41.61	PK2	33.6	-30.2	45.01	-	-	74	-28.99	184	183	H
	* 4.096	29.59	MAv1	33.6	-30.2	32.99	54	-21.01	-	-	184	183	H
3	* 3.525	41.09	PK2	33.2	-30.2	44.09	-	-	74	-29.91	241	366	H
	* 3.524	28.95	MAv1	33.2	-30.2	31.95	54	-22.05	-	-	241	366	H
6	* 8.343	38.78	PK2	36.5	-25.3	49.98	-	-	74	-24.02	29	107	H
	* 8.342	26	MAv1	36.5	-25.4	37.1	54	-16.9	-	-	29	107	H
1	* 11.924	35.39	PK2	39.5	-22	52.89	-	-	74	-21.11	138	112	V
	* 11.924	22.63	MAv1	39.5	-22	40.13	54	-13.87	-	-	138	112	V
5	* 5.077	41.24	PK2	34.6	-28.8	47.04	-	-	74	-26.96	100	294	V
	* 5.075	28.85	MAv1	34.6	-28.7	34.75	54	-19.25	-	-	100	294	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

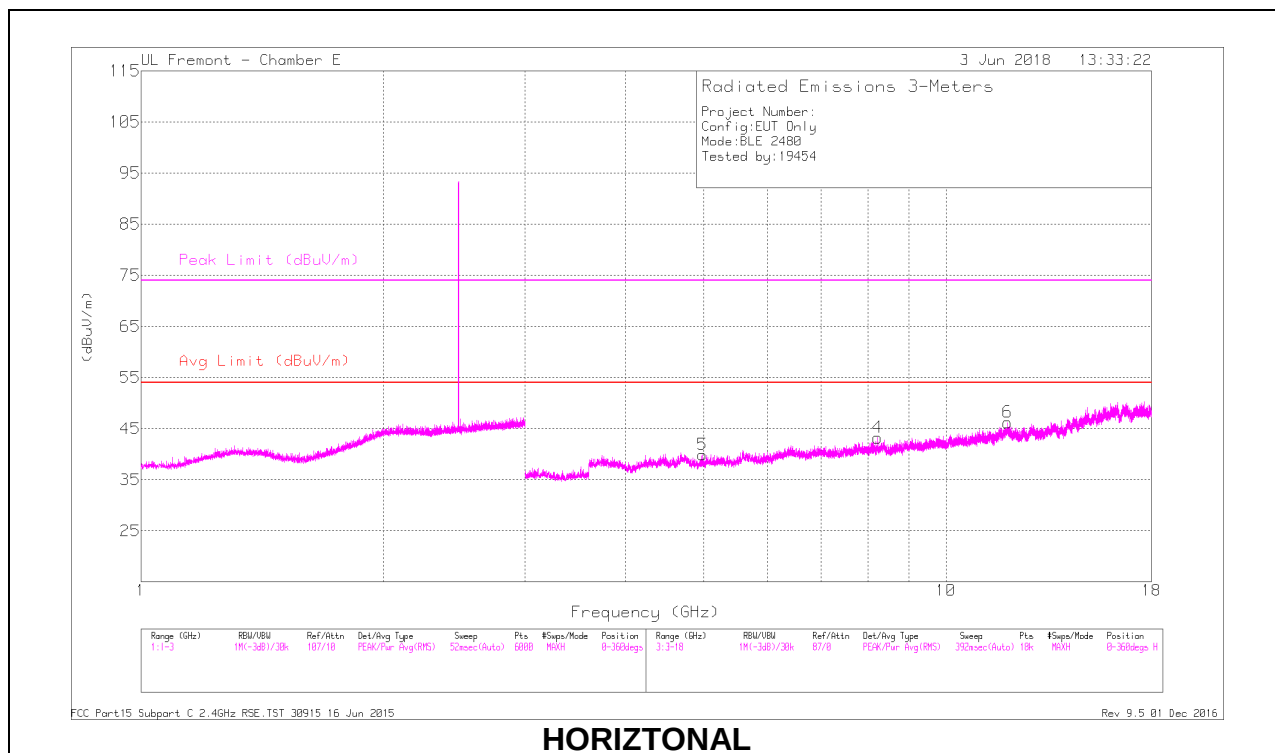
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.449	44.46	PK2	28.2	-24.9	47.76	-	-	74	-26.24	207	269	H
	* 1.449	32.07	MAv1	28.2	-24.9	35.37	54	-18.63	-	-	207	269	H
6	* 2.218	43.74	PK2	32	-23	52.74	-	-	74	-21.26	317	124	V
	* 2.22	30.44	MAv1	32	-23	39.44	54	-14.56	-	-	317	124	V
1	* 11.994	36.09	PK2	39.8	-23	52.89	-	-	74	-21.11	4	113	H
	* 11.997	22.46	MAv1	39.8	-23.1	39.16	54	-14.84	-	-	4	113	H
3	* 3.505	41.29	PK2	33.1	-30.1	44.29	-	-	74	-29.71	203	283	H
	* 3.506	28.94	MAv1	33.1	-30.1	31.94	54	-22.06	-	-	203	283	H
2	* 8.361	37.81	PK2	36.5	-24.8	49.51	-	-	74	-24.49	19	115	V
	* 8.361	25.76	MAv1	36.5	-24.8	37.46	54	-16.54	-	-	19	115	V
5	* 11.341	34.92	PK2	38.6	-22.5	51.02	-	-	74	-22.98	150	255	V
	* 11.339	20.62	MAv1	38.6	-22.5	36.72	54	-17.28	-	-	150	255	V

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

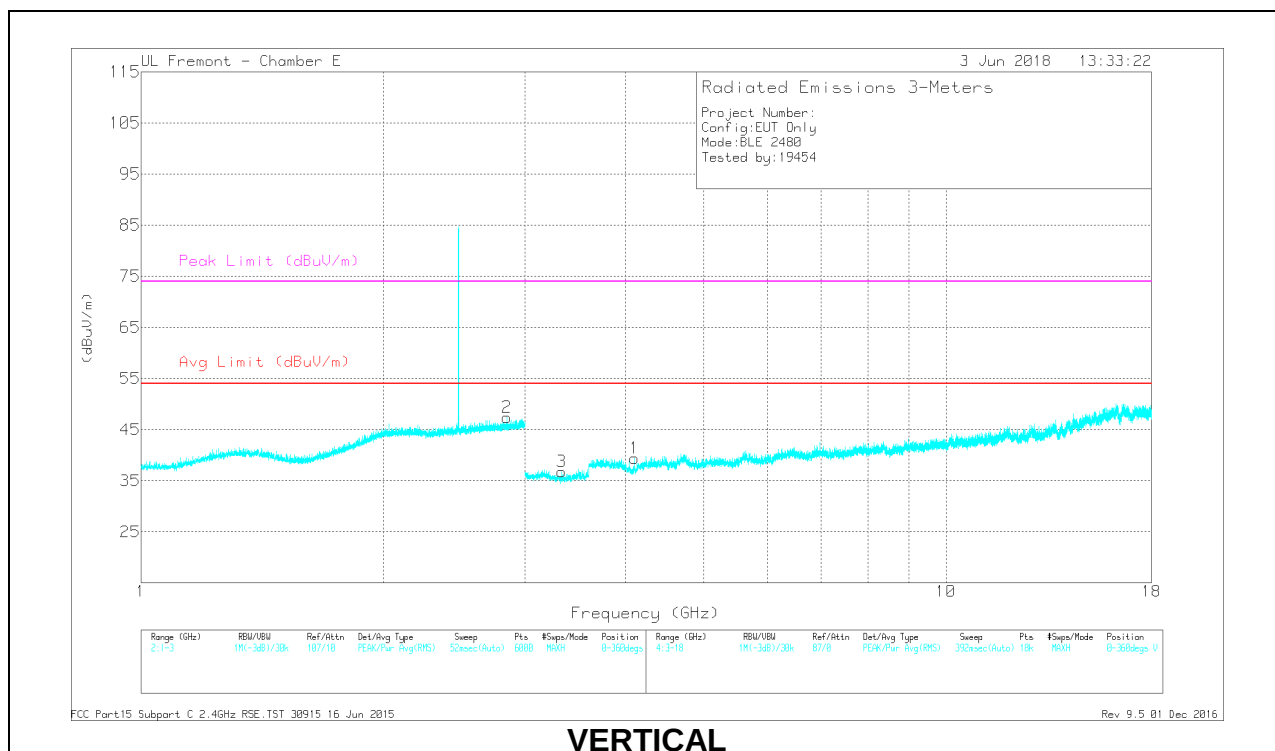
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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
2	* 2.848	42.74	PK2	32.7	-21.9	53.54	-	-	74	-20.46	219	183	V
	* 2.848	29.5	MAv1	32.7	-21.9	40.3	54	-13.7	-	-	219	183	V
4	* 8.222	37.89	PK2	36.5	-25.8	48.59	-	-	74	-25.41	184	241	H
	* 8.222	25.72	MAv1	36.5	-25.8	36.42	54	-17.58	-	-	184	241	H
5	* 4.984	40.97	PK2	34.5	-29.5	45.97	-	-	74	-28.03	131	358	H
	* 4.982	29.11	MAv1	34.5	-29.5	34.11	54	-19.89	-	-	131	358	H
6	* 11.924	35.64	PK2	39.5	-22	53.14	-	-	74	-20.86	95	100	H
	* 11.927	23.04	MAv1	39.5	-21.9	40.64	54	-13.36	-	-	95	100	H
1	* 4.102	41.14	PK2	33.6	-30.2	44.54	-	-	74	-29.46	32	223	V
	* 4.104	29.37	MAv1	33.6	-30.2	32.77	54	-21.23	-	-	32	223	V
3	* 3.339	41.66	PK2	32.9	-30.4	44.16	-	-	74	-29.84	317	101	V
	* 3.339	29.15	MAv1	32.9	-30.4	31.65	54	-22.35	-	-	317	101	V

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

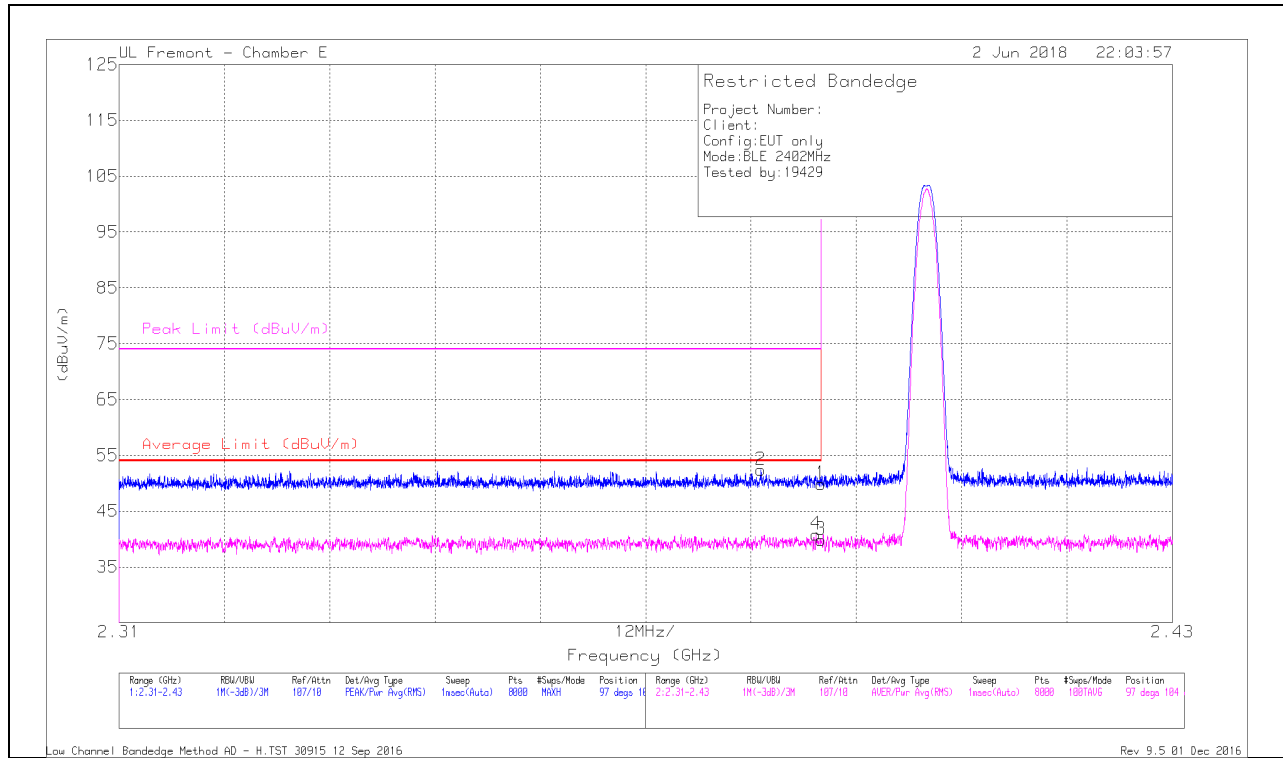
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



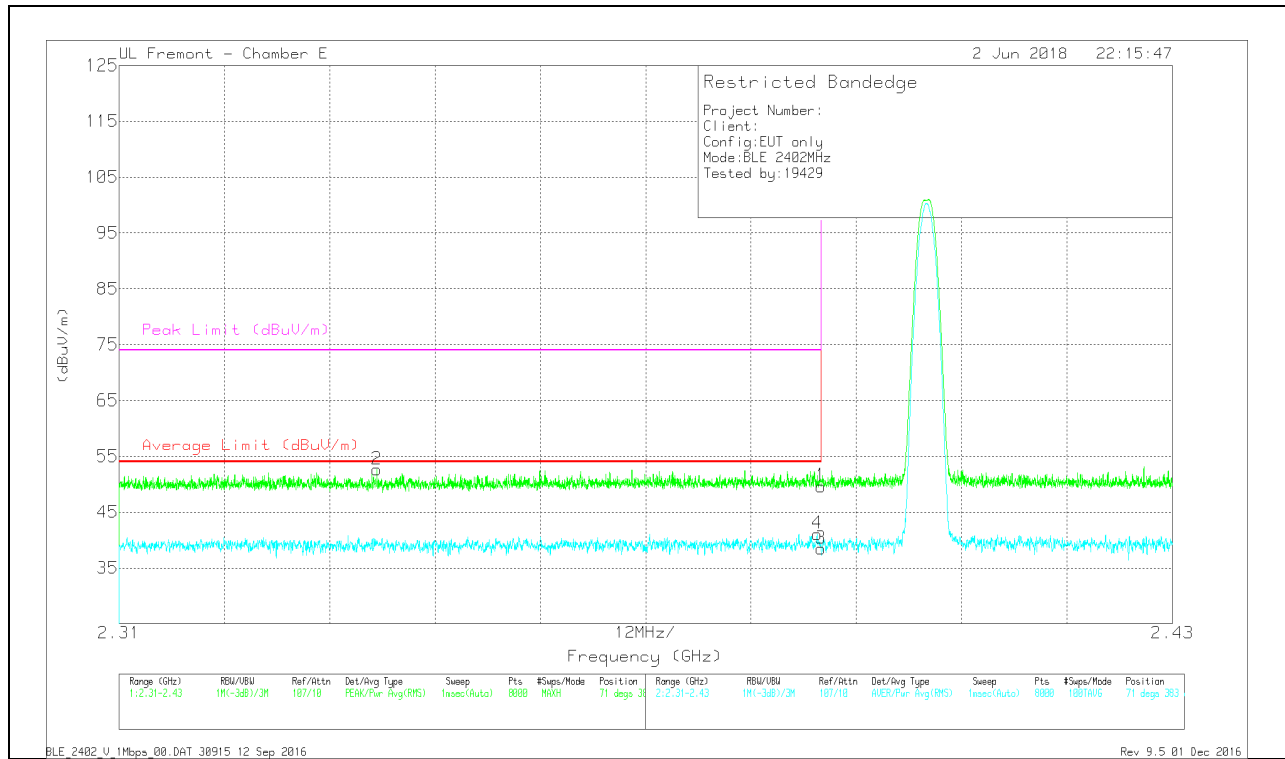
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.49	Pk	32	-22.6	49.89	-	-	74	-24.11	97	104	H
2	* 2.383	43.11	Pk	31.9	-22.6	52.41	-	-	74	-21.59	97	104	H
3	* 2.39	30.47	RMS	32	-22.6	39.87	54	-14.13	-	-	97	104	H
4	* 2.389	31.44	RMS	32	-22.6	40.84	54	-13.16	-	-	97	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 T346 (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	* 2.39	40.25	Pk	32	-22.6	49.65	-	-	74	-24.35	71	383	V
2	* 2.339	43.56	Pk	31.8	-22.7	52.66	-	-	74	-21.34	71	383	V
3	* 2.39	29.08	RMS	32	-22.6	38.48	54	-15.52	-	-	71	383	V
4	* 2.39	31.7	RMS	32	-22.6	41.1	54	-12.9	-	-	71	383	V

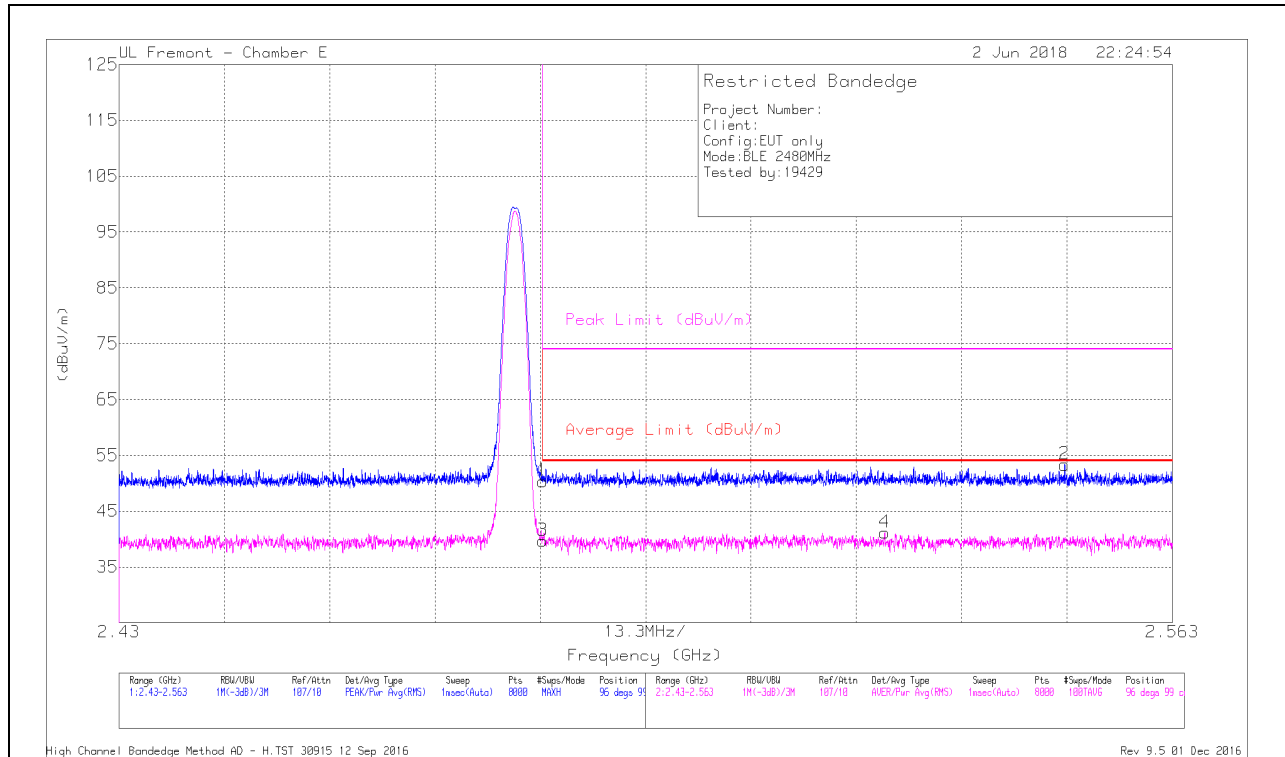
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



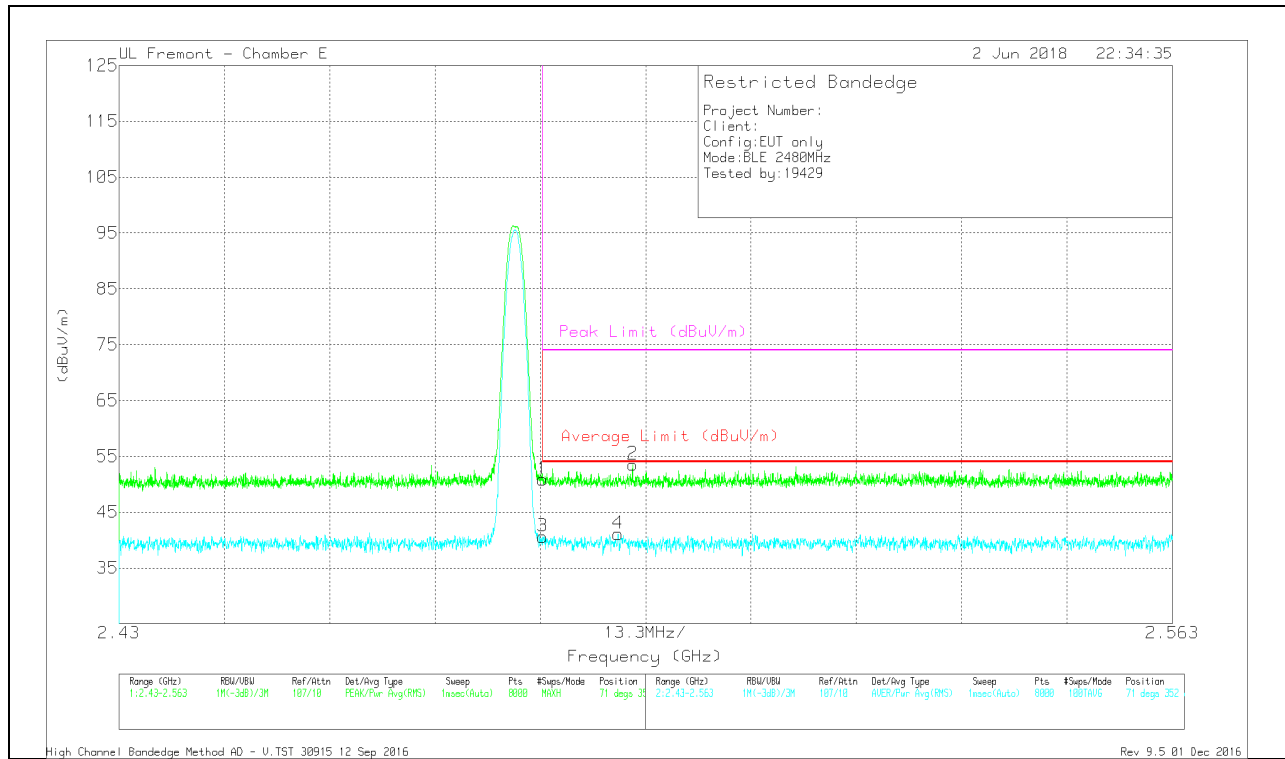
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.55	Pk	32.1	-22.3	50.35	-	-	74	-23.65	96	99	H
3	* 2.484	29.91	RMS	32.1	-22.3	39.71	54	-14.29	-	-	96	99	H
4	2.527	31.36	RMS	32.1	-22.3	41.16	54	-12.84	-	-	96	99	H
2	2.549	43.53	Pk	32.1	-22.3	53.33	-	-	74	-20.67	96	99	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 (dBm)	Amp/Cbl/Filtri/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	41.09	Pk	32.1	-22.3	50.89	-	-	74	-23.11	71	352	V
2	* 2.495	43.95	Pk	32.1	-22.5	53.55	-	-	74	-20.45	71	352	V
3	* 2.484	30.82	RMS	32.1	-22.3	40.62	54	-13.38	-	-	71	352	V
4	* 2.493	31.51	RMS	32.1	-22.5	41.11	54	-12.89	-	-	71	352	V

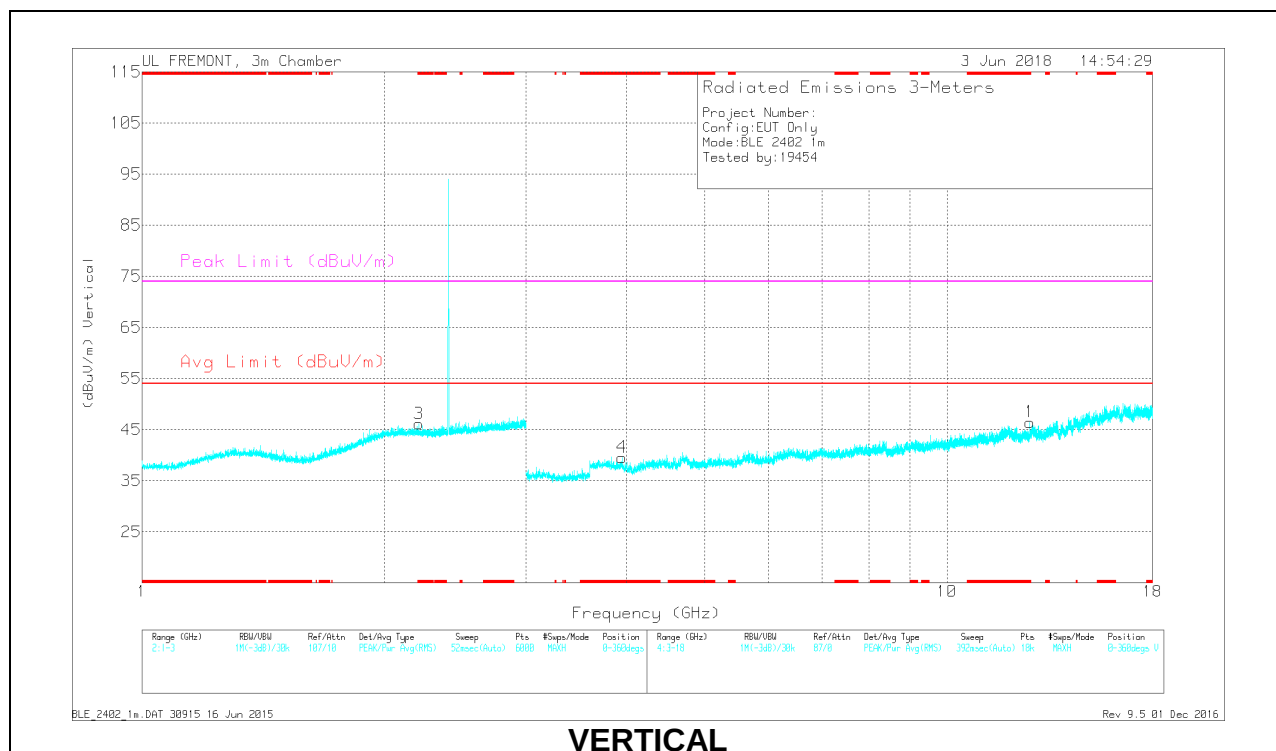
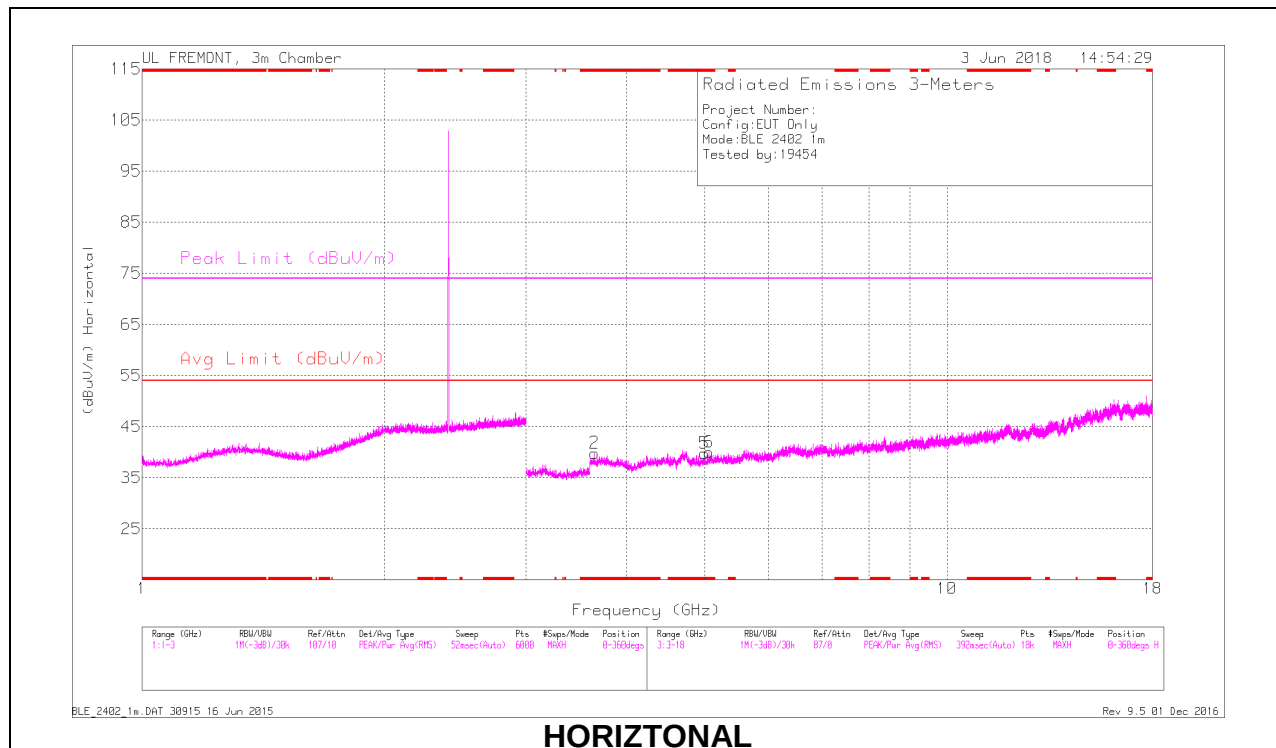
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

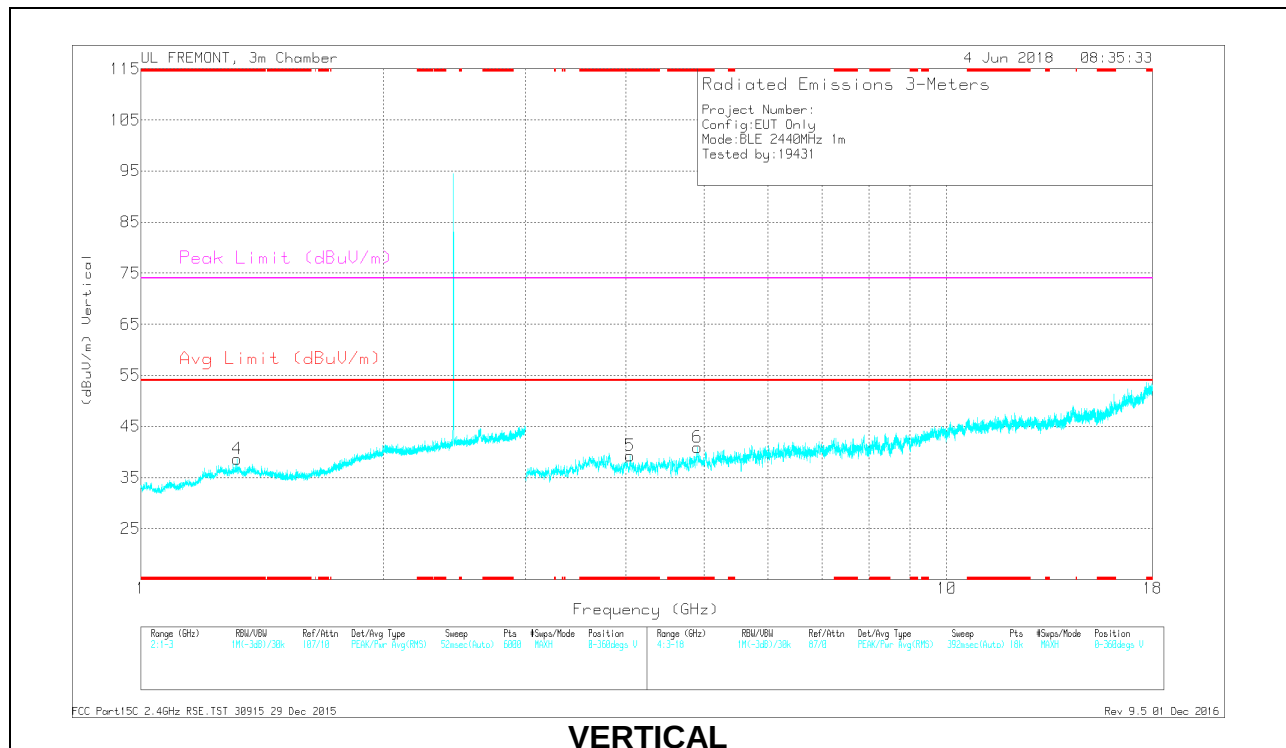
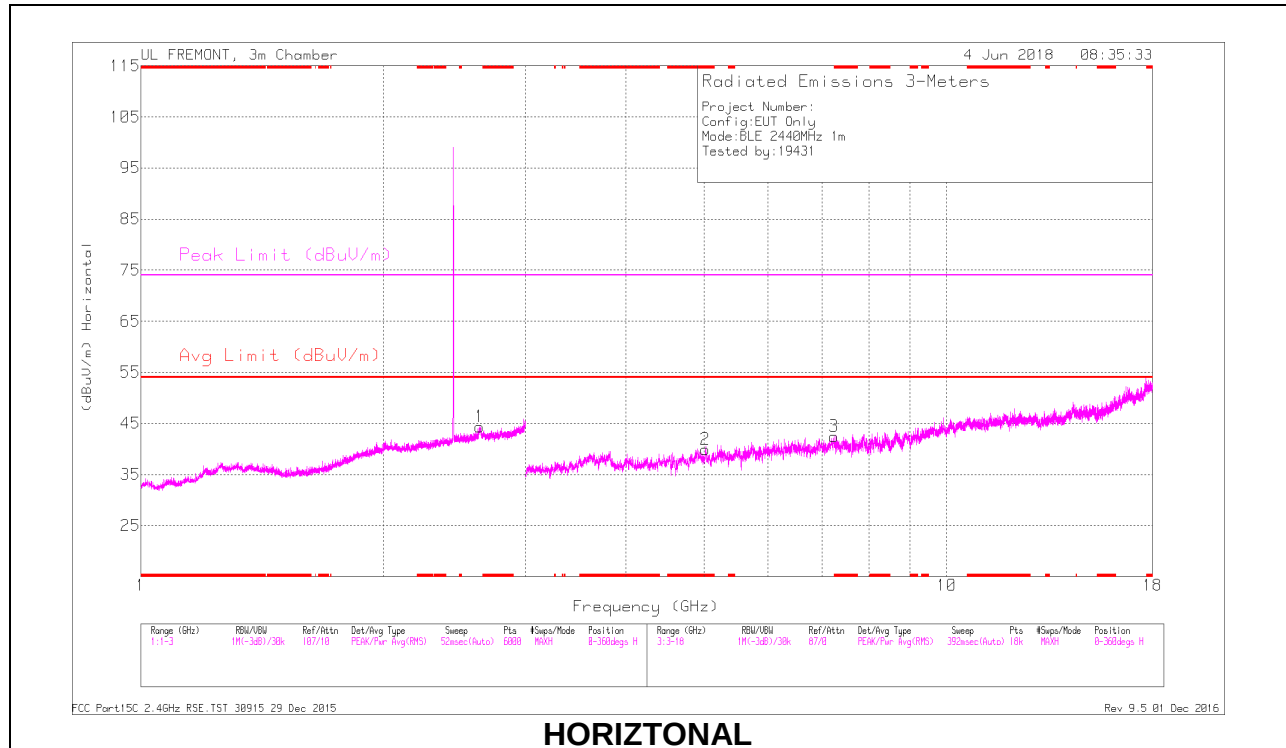
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 2.206	43.97	PK2	32.1	-23	53.07	-	-	74	-20.93	303	334	V
	* 2.204	30.59	MAv1	32.1	-23	39.69	54	-14.31	-	-	303	334	V
2	* 3.647	41.4	PK2	33.4	-29.6	45.2	-	-	74	-28.8	310	286	H
	* 3.651	29.25	MAv1	33.4	-29.5	33.15	54	-20.85	-	-	310	286	H
5	* 4.996	41.11	PK2	34.5	-29.6	46.01	-	-	74	-27.99	345	250	H
	* 4.998	28.88	MAv1	34.5	-29.6	33.78	54	-20.22	-	-	345	250	H
6	* 5.06	40.95	PK2	34.6	-29.1	46.45	-	-	74	-27.55	357	101	H
	* 5.062	28.82	MAv1	34.6	-29.1	34.32	54	-19.68	-	-	357	101	H
1	* 12.678	35.93	PK2	39.4	-23.8	51.53	-	-	74	-22.47	3	340	V
	* 12.674	22.98	MAv1	39.4	-23.8	38.58	54	-15.42	-	-	3	340	V
4	* 3.948	41.26	PK2	33.7	-29	45.96	-	-	74	-28.04	10	284	V
	* 3.949	28.99	MAv1	33.7	-29	33.69	54	-20.31	-	-	10	284	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 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
4	* 1.318	37.91	PK2	29.7	-22.7	44.91	-	-	74	-29.09	153	251	V
	* 1.315	25.54	MAv1	29.8	-22.7	32.64	54	-21.36	-	-	153	251	V
2	* 5.016	37.49	PK2	34.2	-24.7	46.99	-	-	74	-27.01	82	347	H
	* 5.017	25.57	MAv1	34.2	-24.6	35.17	54	-18.83	-	-	82	347	H
5	* 4.046	40.68	PK2	33.5	-28.3	45.88	-	-	74	-28.12	228	171	V
	* 4.05	28.73	MAv1	33.5	-27.8	34.43	54	-19.57	-	-	228	171	V
6	* 4.903	39.74	PK2	34	-26.2	47.54	-	-	74	-26.46	144	160	V
	* 4.905	28.21	MAv1	34	-26.4	35.81	54	-18.19	-	-	144	160	V
1	2.631	39.24	PK2	32.5	-20.3	51.44	-	-	-	-	75	136	H
3	7.247	38.31	PK2	35.7	-24.3	49.71	-	-	-	-	262	255	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

UL FREMONT, 3m Chamber

4 Jun 2018 09:26:23

Radiated Emissions 3-Meters

Project Number:
Config:EUT Only
Mode:BLE 2480MHz 1m
Tested by:19431

Horizontal

Peak Limit (dBuV/m)

Avg Limit (dBuV/m)

1

2

3

Frequency (GHz)

Range (GHz)	RBW/VBW	Ref/Att	Det/Avg Type	Sweep	Pts	#Seps/Mode	Position	Range (GHz)	RBW/VBW	Ref/Att	Det/Avg Type	Sweep	Pts	#Seps/Mode	Position
1.1-3	1M(-3dB)/30k	107/10	PEAK/Pur Avg(RMS)	52sec(Auto)	6000	16001	0-360deg	3.1-18	1M(-3dB)/30k	87/0	PEAK/Pur Avg(RMS)	392sec(Auto)	19k	16001	0-360deg

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2015

UL FREMONT, 3m Chamber 4 Jun 2018 09:26:23

Radiated Emissions 3-Meters
 Project Number:
 Config:EUT Only
 Made:BLE 2400MHz 1m
 Tested by:19431

Peak Limit (dBuU/m)
 Avg Limit (dBuU/m)

4 6

Vertical (dBuU/m)

Frequency (GHz)

Range (GHz)	RBW/VBW	Ref/Att	Det/Avg Type	Sweep	Pts	#Seps/Mode	Position	Range (GHz)	RBW/VBW	Ref/Att	Det/Avg Type	Sweep	Pts	#Seps/Mode	Position
2.1-3	1M<3dB/30k	107/10	PEAK/Pwr Avg(RMS)	52usec(Auto)	6000	1600	0-360deg	4.1-18	1M<3dB/30k	87/0	PEAK/Pwr Avg(RMS)	352usec(Auto)	10k	1600	0-360deg

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015 Rev 9.5 01 Dec 2015

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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	* 1.374	42.1	PK2	29.4	-21.6	49.9	-	-	74	-24.1	360	295	H
	* 1.373	30.29	MAv1	29.4	-21.6	38.09	54	-15.91	-	-	360	295	H
4	* 2.328	41.86	PK2	31.7	-20.2	53.36	-	-	74	-20.64	138	349	V
	* 2.328	29.83	MAv1	31.7	-20.2	41.33	54	-12.67	-	-	138	349	V
2	* 3.649	40.59	PK2	34.5	-28.6	46.49	-	-	74	-27.51	198	295	H
	* 3.651	28.94	MAv1	34.5	-28.7	34.74	54	-19.26	-	-	198	295	H
3	* 7.425	37.43	PK2	35.7	-24.3	48.83	-	-	74	-25.17	83	100	H
	* 7.424	25.66	MAv1	35.7	-24.2	37.16	54	-16.84	-	-	83	100	H
5	* 3.812	40.04	PK2	33.7	-27	46.74	-	-	74	-27.26	77	394	V
	* 3.813	28.78	MAv1	33.7	-27.2	35.28	54	-18.72	-	-	77	394	V
6	* 8.385	36.42	PK2	35.7	-21.4	50.72	-	-	74	-23.28	24	202	V
	* 8.385	24.77	MAv1	35.7	-21.5	38.97	54	-15.03	-	-	24	202	V

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

PK2 - KDB558074 Method: Maximum Peak

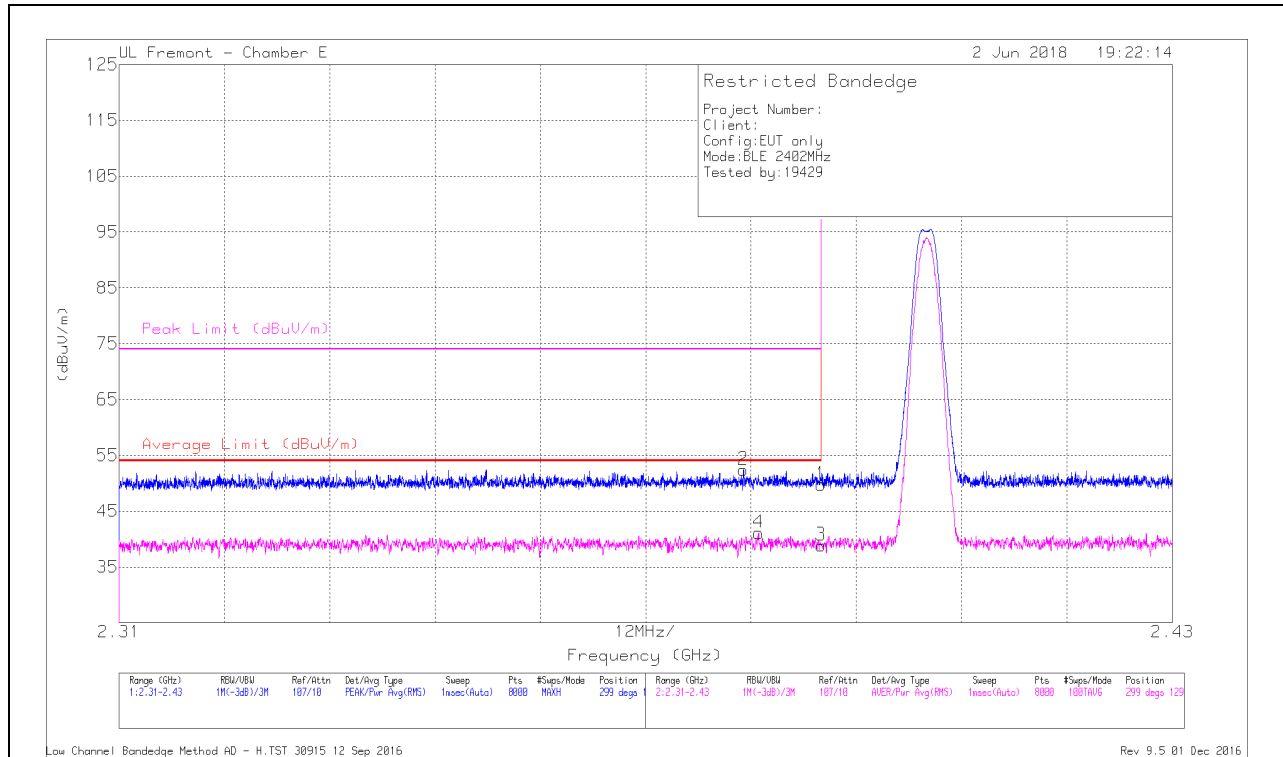
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.4. LOW POWER BLE (2Mbps)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



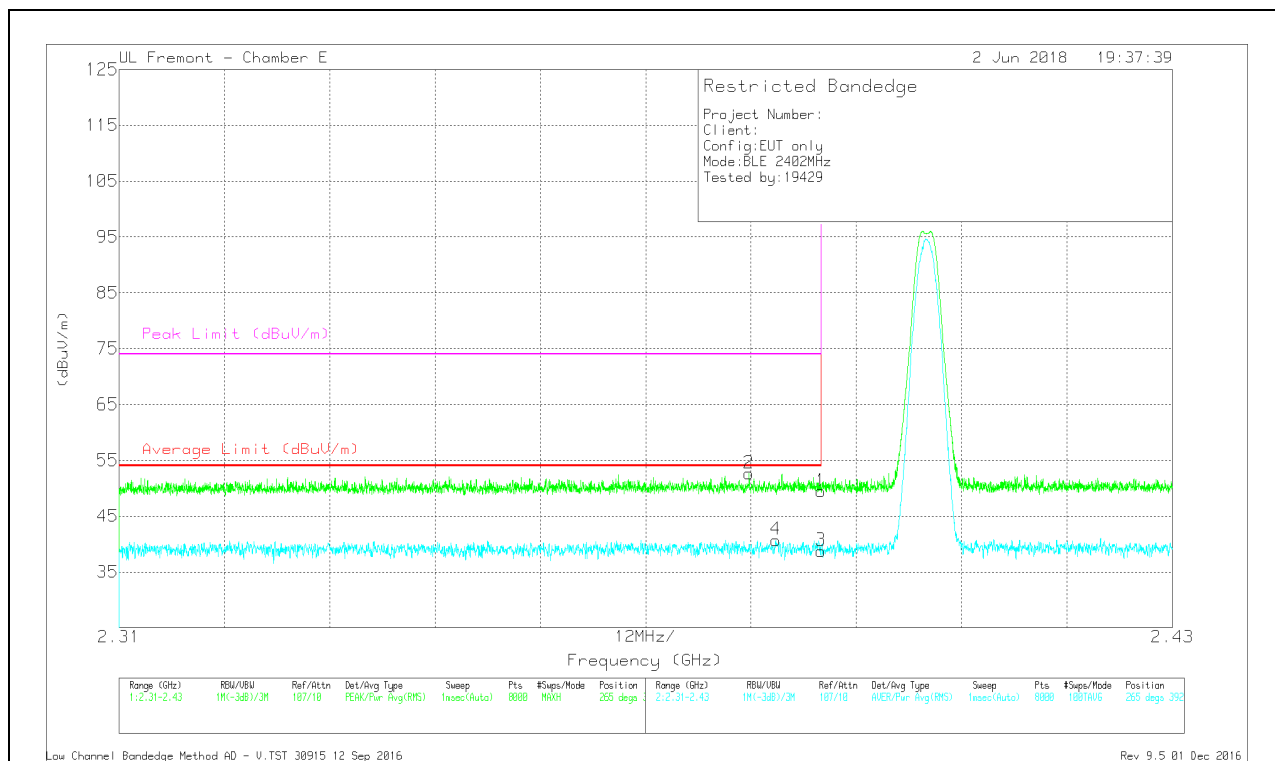
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.39	Pk	32	-22.6	49.79	-	-	74	-24.21	299	129	H
2	* 2.381	43.12	Pk	31.9	-22.6	52.42	-	-	74	-21.58	299	129	H
3	* 2.39	29.48	RMS	32	-22.6	38.88	54	-15.12	-	-	299	129	H
4	* 2.383	31.81	RMS	31.9	-22.6	41.11	54	-12.89	-	-	299	129	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 (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	* 2.39	40.08	Pk	32	-22.6	49.48	-	-	74	-24.52	265	392	V
2	* 2.382	43.35	Pk	31.9	-22.6	52.65	-	-	74	-21.35	265	392	V
3	* 2.39	29.37	RMS	32	-22.6	38.77	54	-15.23	-	-	265	392	V
4	* 2.385	31.44	RMS	31.9	-22.6	40.74	54	-13.26	-	-	265	392	V

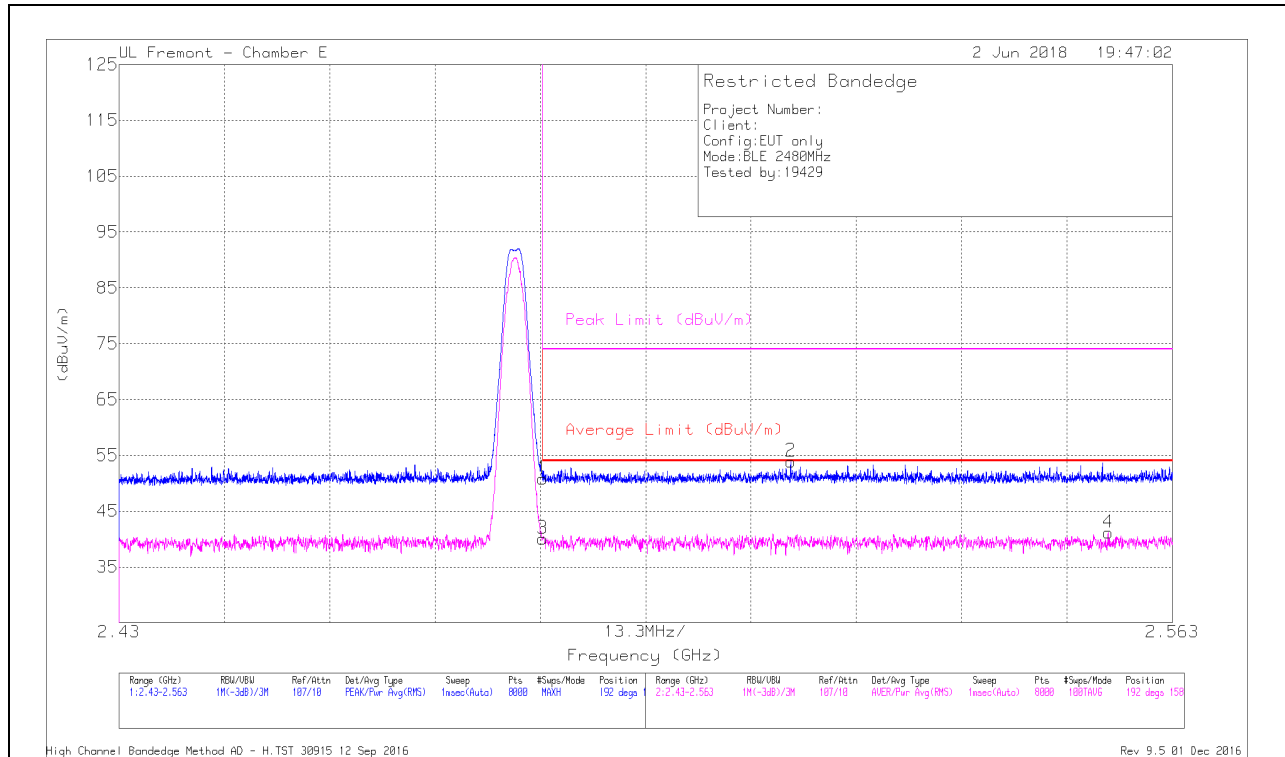
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



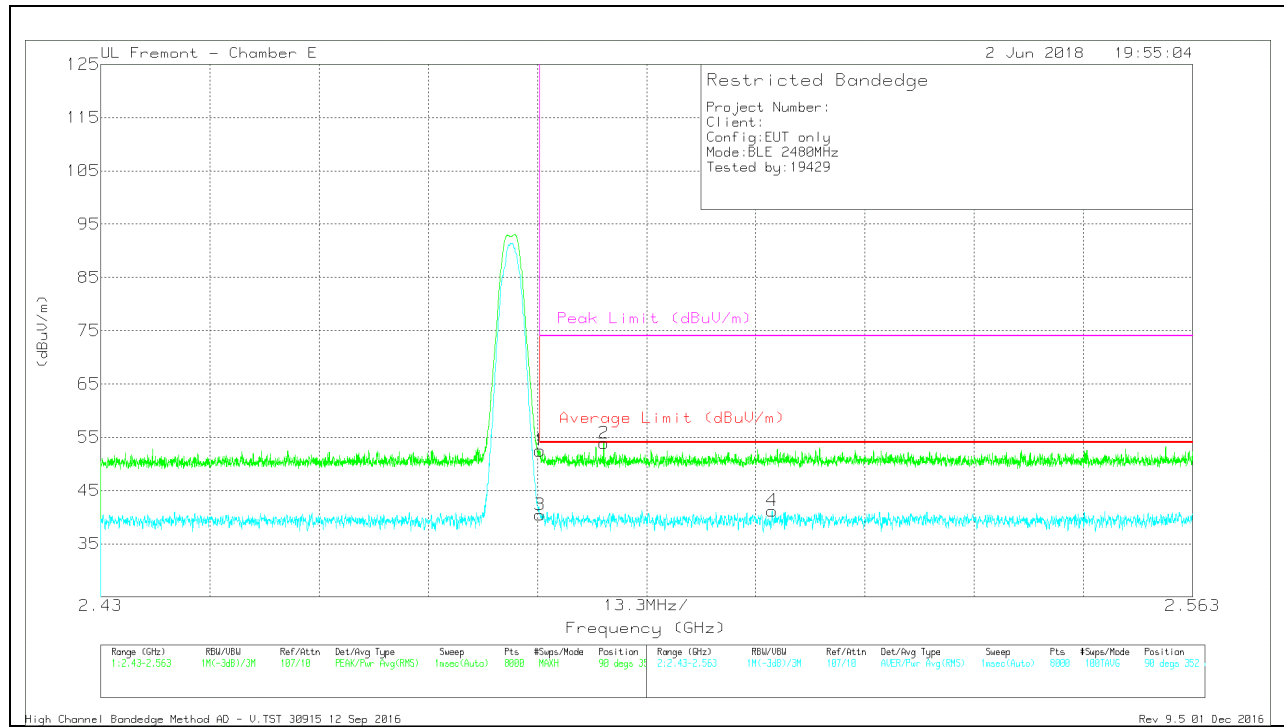
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.06	Pk	32.1	-22.3	50.86	-	-	74	-23.14	192	158	H
3	* 2.484	30.28	RMS	32.1	-22.3	40.08	54	-13.92	-	-	192	158	H
2	2.515	44.01	Pk	32.1	-22.2	53.91	-	-	74	-20.09	192	158	H
4	2.555	31.34	RMS	32.1	-22.3	41.14	54	-12.86	-	-	192	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 (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	42.68	Pk	32.1	-22.3	52.48	-	-	74	-21.52	90	352	V
2	* 2.491	44.18	Pk	32.1	-22.4	53.88	-	-	74	-20.12	90	352	V
3	* 2.484	30.63	RMS	32.1	-22.3	40.43	54	-13.57	-	-	90	352	V
4	2.512	31.29	RMS	32.1	-22.2	41.19	54	-12.81	-	-	90	352	V

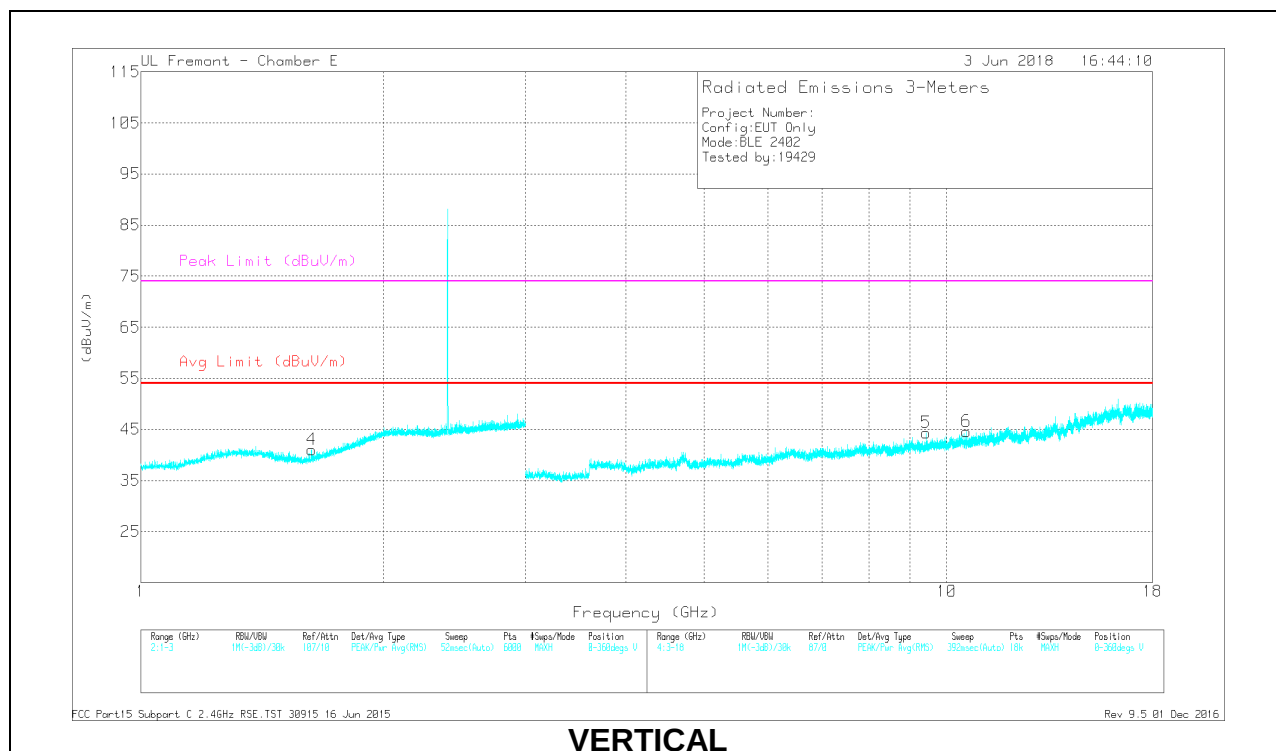
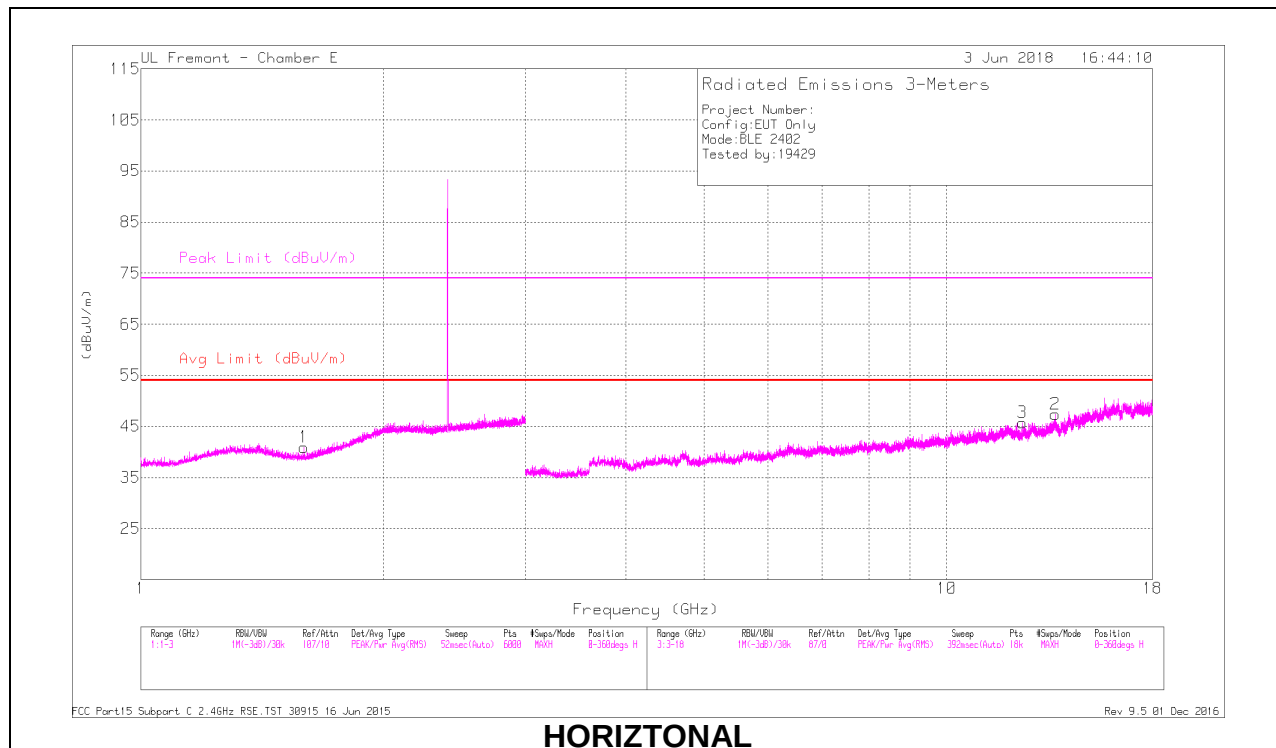
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

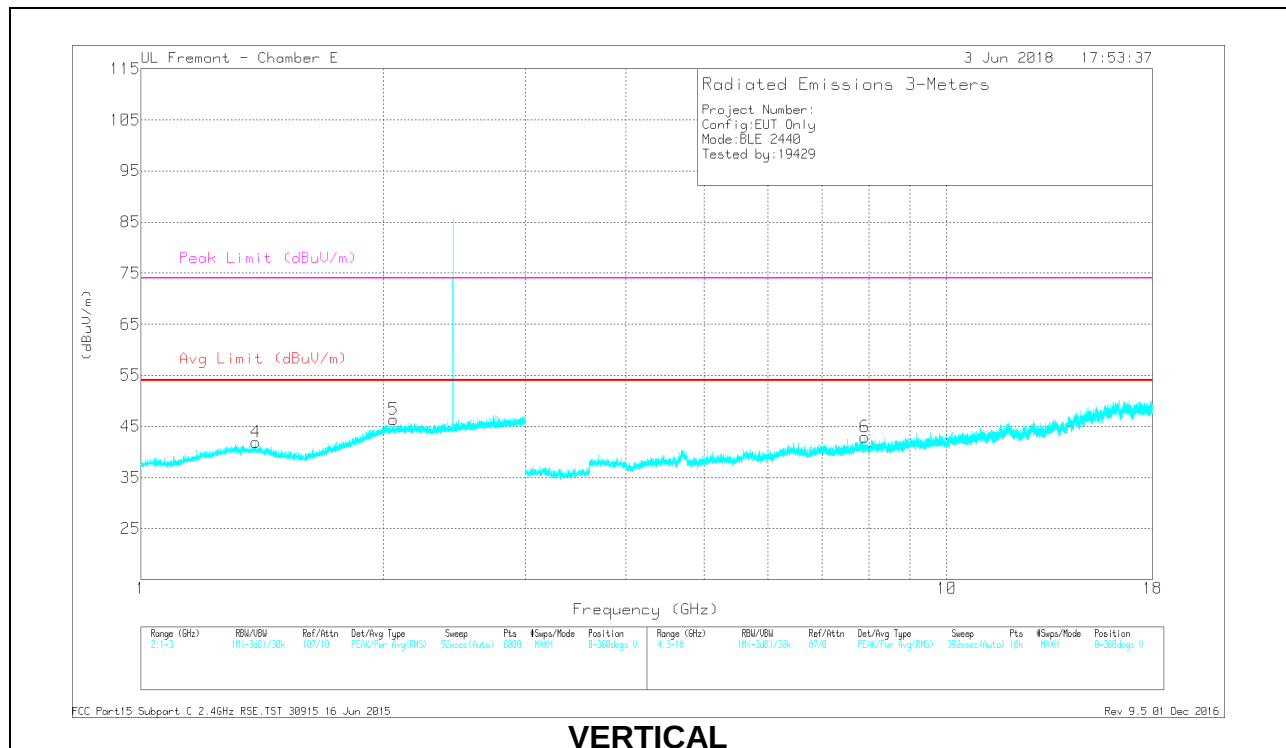
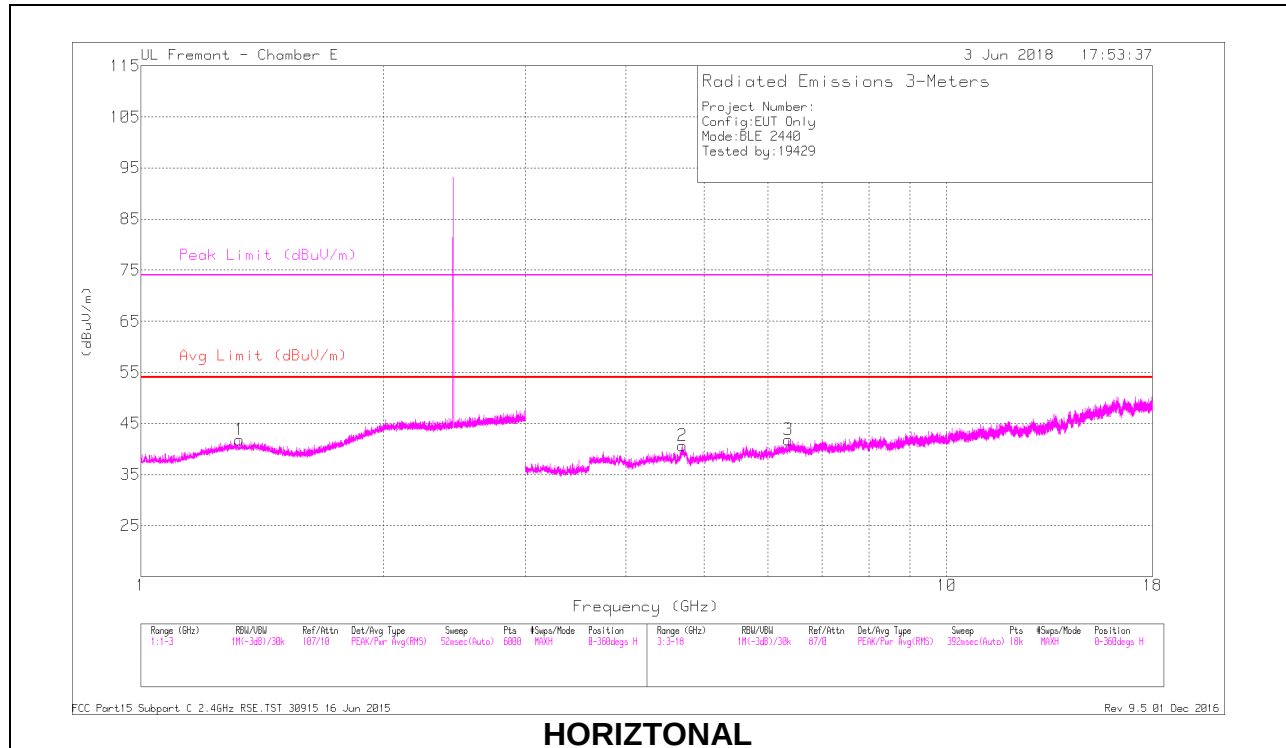
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.592	44.34	PK2	27.2	-24.5	47.04	-	-	74	-26.96	135	294	H
	* 1.592	31.84	MAv1	27.2	-24.5	34.54	54	-19.46	-	-	135	294	H
3	* 12.41	36.63	PK2	38.7	-23.3	52.03	-	-	74	-21.97	238	125	H
	* 12.412	23.11	MAv1	38.7	-23.2	38.61	54	-15.39	-	-	238	125	H
5	* 9.431	37.26	PK2	37.2	-24.5	49.96	-	-	74	-24.04	250	362	V
	* 9.43	24.6	MAv1	37.2	-24.5	37.3	54	-16.7	-	-	250	362	V
4	1.628	44.23	PK2	27.5	-24.3	47.43	-	-	-	-	183	271	V
6	10.574	35.24	PK2	38.1	-23	50.34	-	-	-	-	287	109	V
2	13.633	37.38	PK2	39.6	-23.6	53.38	-	-	-	-	85	116	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

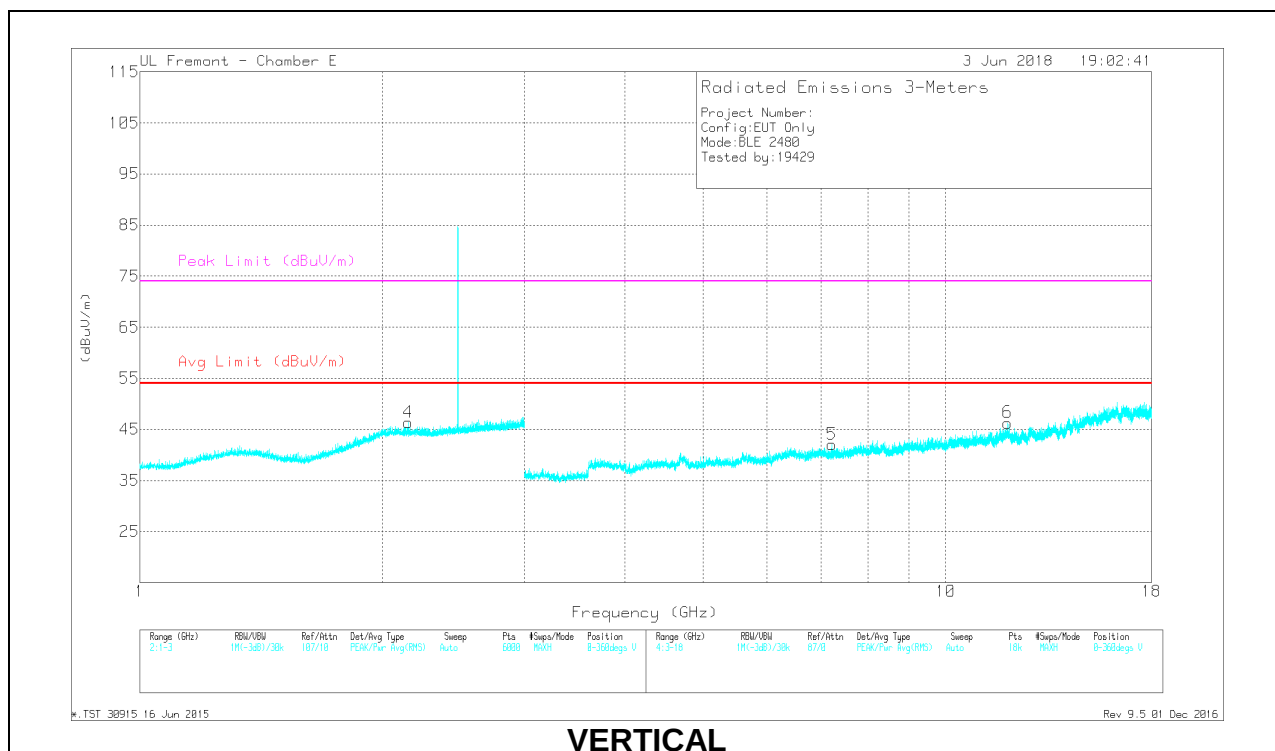
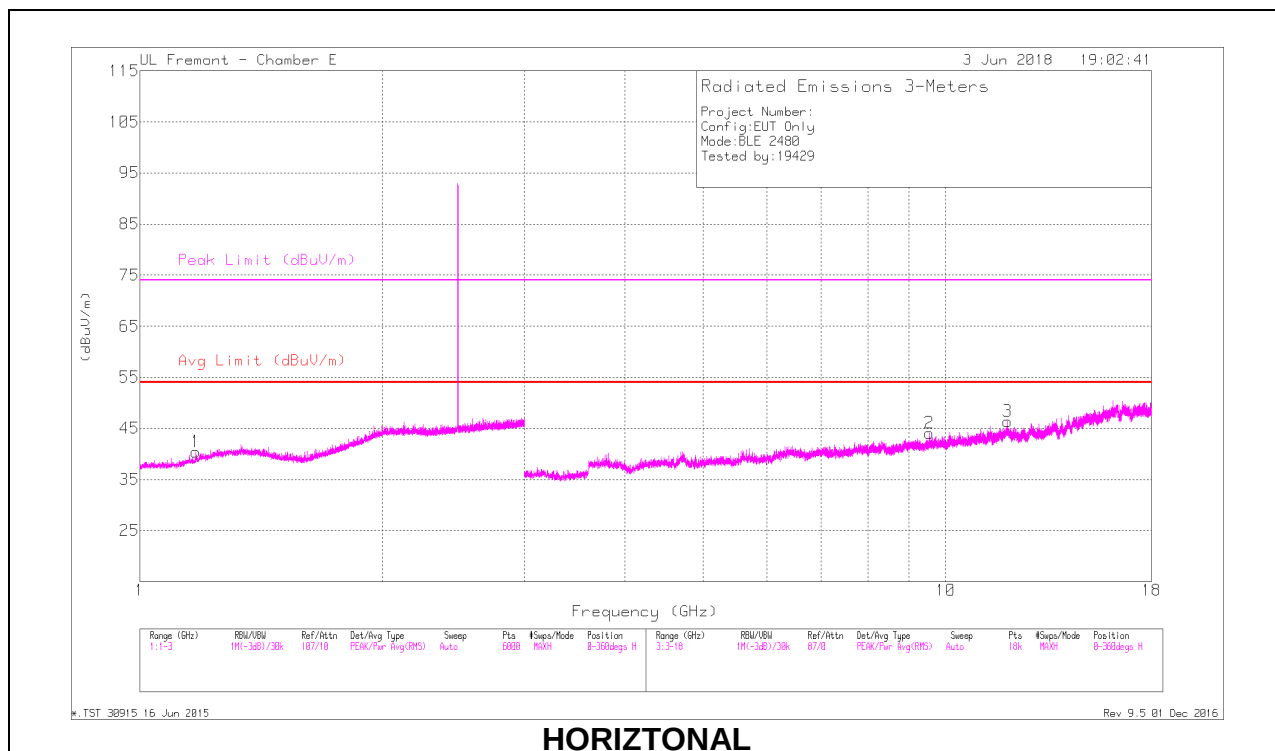
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.326	44.97	PK2	28.9	-25.3	48.57	-	-	74	-25.43	326	149	H
	* 1.325	32.29	MAv1	28.9	-25.3	35.89	54	-18.11	-	-	326	149	H
4	* 1.386	45.01	PK2	28.8	-25.1	48.71	-	-	74	-25.29	246	269	V
	* 1.386	32.26	MAv1	28.8	-25.1	35.96	54	-18.04	-	-	246	269	V
2	* 4.7	41.76	PK2	34.4	-28.9	47.26	-	-	74	-26.74	170	177	H
	* 4.697	29.84	MAv1	34.4	-29	35.24	54	-18.76	-	-	170	177	H
5	2.058	43.76	PK2	32.1	-23.3	52.56	-	-	-	-	115	192	V
3	6.36	40.49	PK2	36.1	-28.1	48.49	-	-	-	-	355	118	H
6	7.91	38.51	PK2	36.6	-26.1	49.01	-	-	-	-	187	398	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 T346 (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	* 1.173	45.19	PK2	27.5	-25.6	47.09	-	-	74	-26.91	107	230	H
	* 1.176	32.61	MAv1	27.6	-25.6	34.61	54	-19.39	-	-	107	230	H
3	* 11.925	35.54	PK2	39.5	-22	53.04	-	-	74	-20.96	64	114	H
	* 11.925	22.92	MAv1	39.5	-22	40.42	54	-13.58	-	-	64	114	H
6	* 11.933	35.73	PK2	39.5	-22	53.23	-	-	74	-20.77	125	110	V
	* 11.93	22.62	MAv1	39.5	-21.9	40.22	54	-13.78	-	-	125	110	V
4	2.154	43.73	PK2	32.1	-23	52.83	-	-	-	-	225	311	V
5	7.217	38.78	PK2	36.1	-26.7	48.18	-	-	-	-	328	200	V
2	9.534	36.84	PK2	37.2	-23.9	50.14	-	-	-	-	216	310	H

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

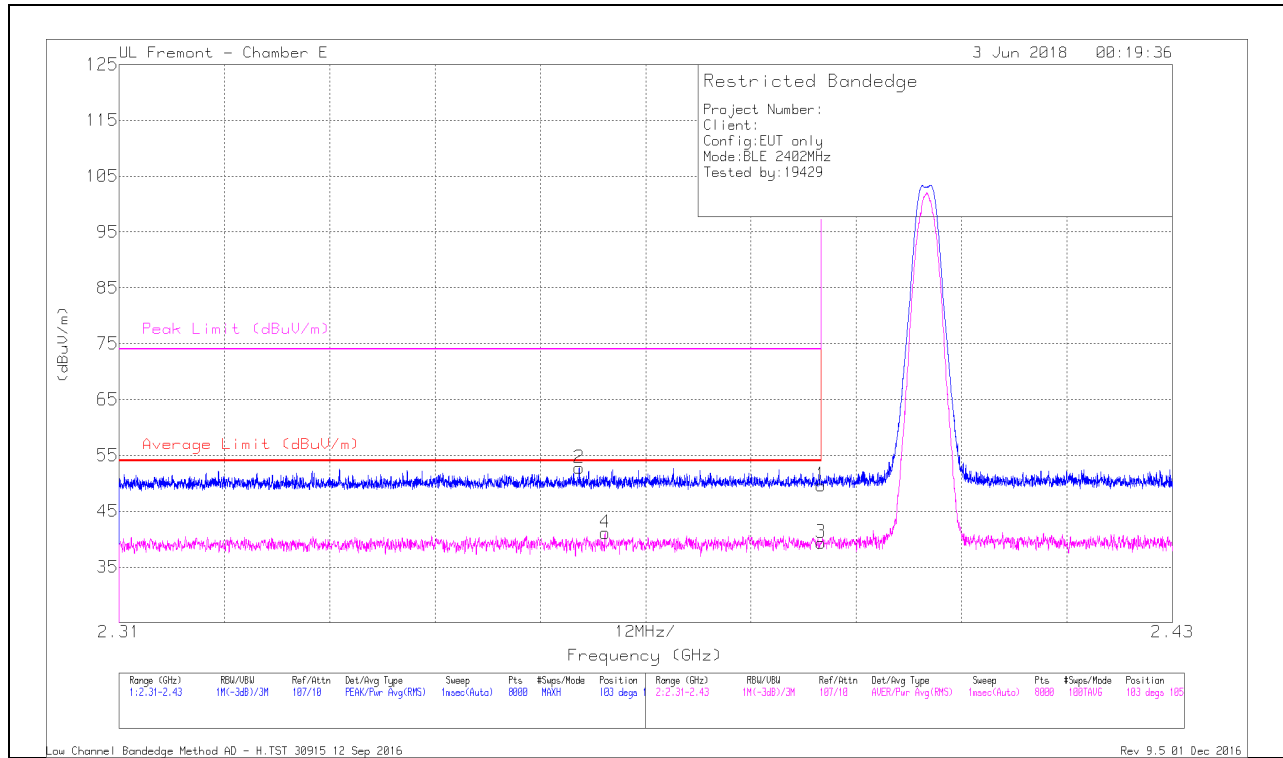
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



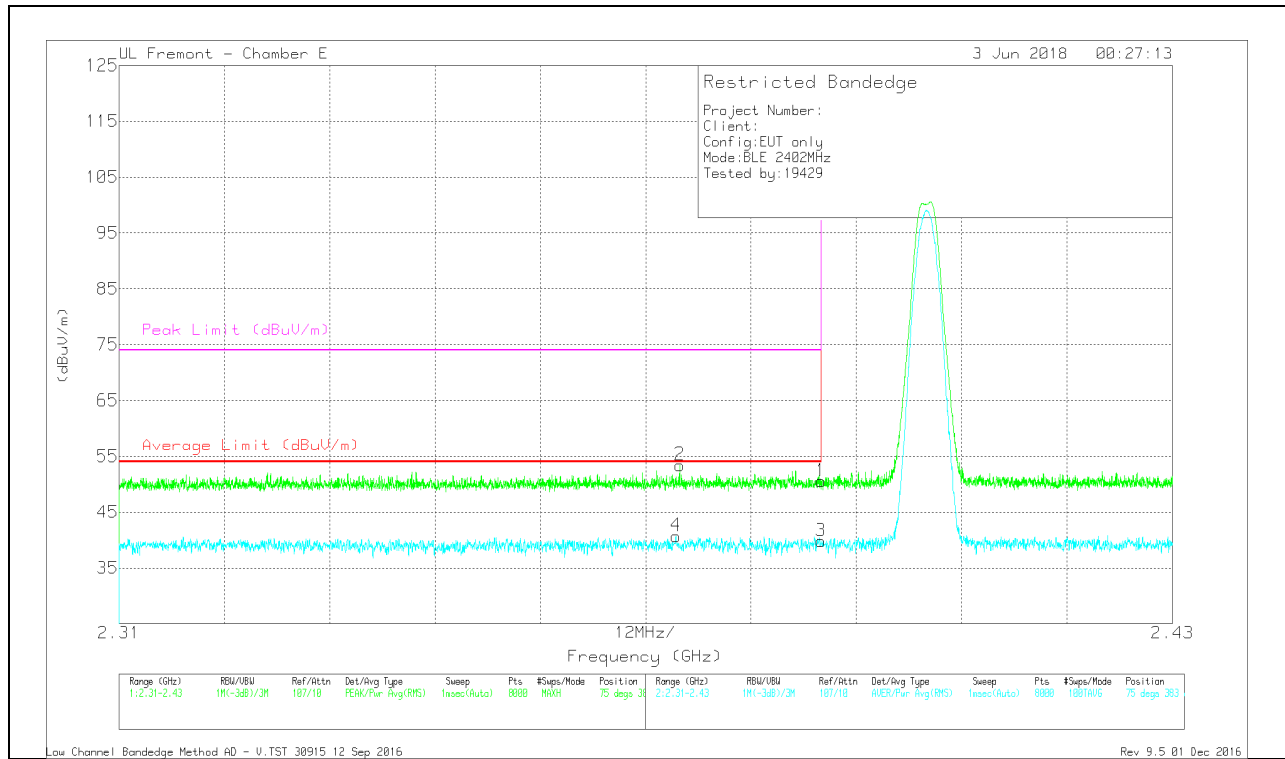
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.24	Pk	32	-22.6	49.64	-	-	74	-24.36	103	105	H
2	* 2.362	43.56	Pk	31.9	-22.7	52.76	-	-	74	-21.24	103	105	H
3	* 2.39	29.97	RMS	32	-22.6	39.37	54	-14.63	-	-	103	105	H
4	* 2.365	31.92	RMS	31.9	-22.7	41.12	54	-12.88	-	-	103	105	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 (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	* 2.39	41.16	Pk	32	-22.6	50.56	-	-	74	-23.44	75	383	V
2	* 2.374	44.22	Pk	31.9	-22.7	53.42	-	-	74	-20.58	75	383	V
3	* 2.39	30.39	RMS	32	-22.6	39.79	54	-14.21	-	-	75	383	V
4	* 2.373	31.52	RMS	31.9	-22.7	40.72	54	-13.28	-	-	75	383	V

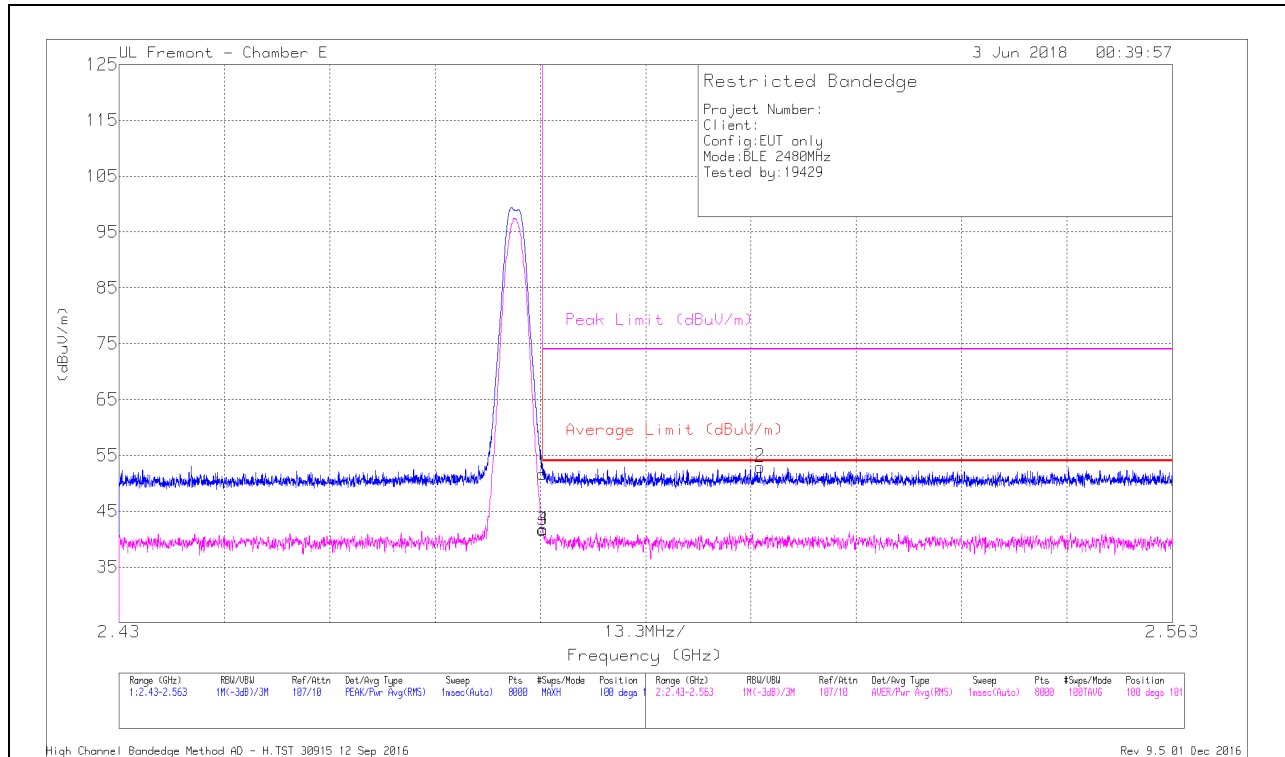
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



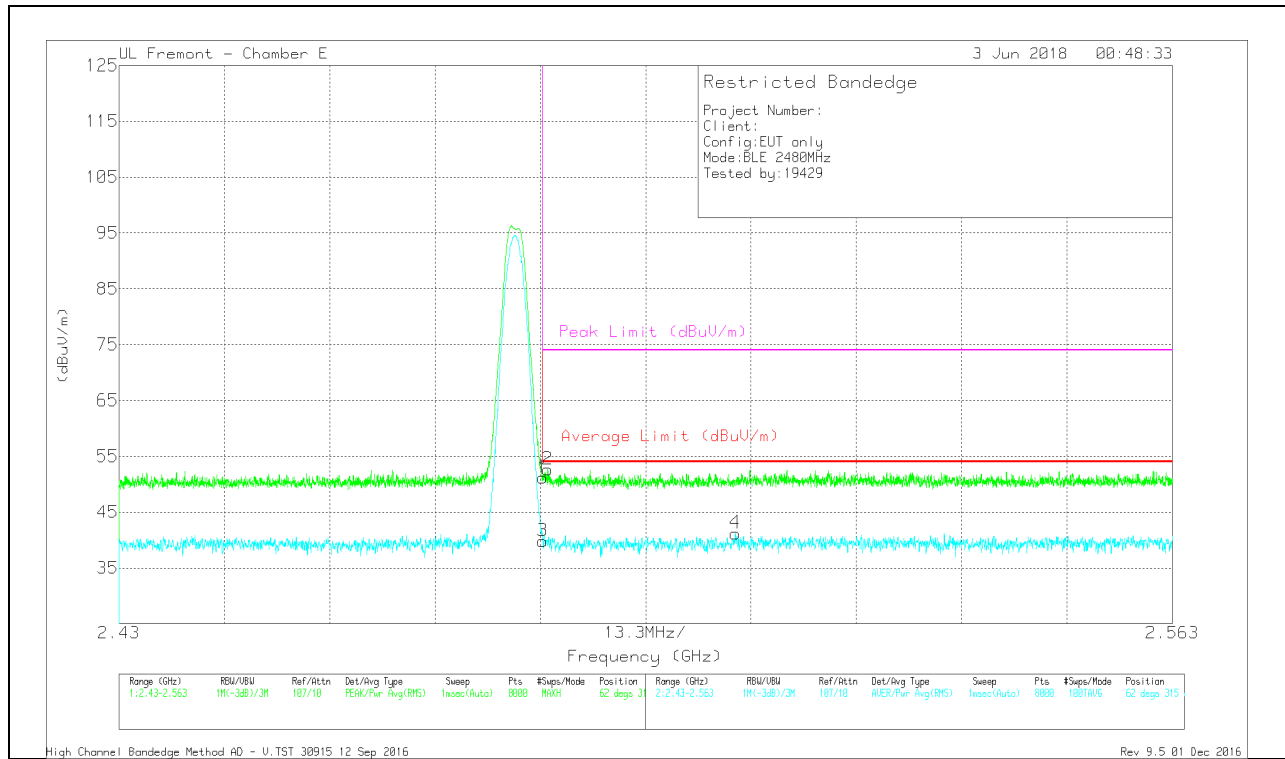
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.86	Pk	32.1	-22.3	51.66	-	-	74	-22.34	100	101	H
3	* 2.484	31.85	RMS	32.1	-22.3	41.65	54	-12.35	-	-	100	101	H
4	* 2.484	31.97	RMS	32.1	-22.3	41.77	54	-12.23	-	-	100	101	H
2	2.511	43.13	Pk	32.1	-22.3	52.93	-	-	74	-21.07	100	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 (dBm)	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	41.38	Pk	32.1	-22.3	51.18	-	-	74	-22.82	62	315	V
2	* 2.484	42.84	Pk	32.1	-22.3	52.64	-	-	74	-21.36	62	315	V
3	* 2.484	30.01	RMS	32.1	-22.3	39.81	54	-14.19	-	-	62	315	V
4	2.508	31.41	RMS	32.1	-22.3	41.21	54	-12.79	-	-	62	315	V

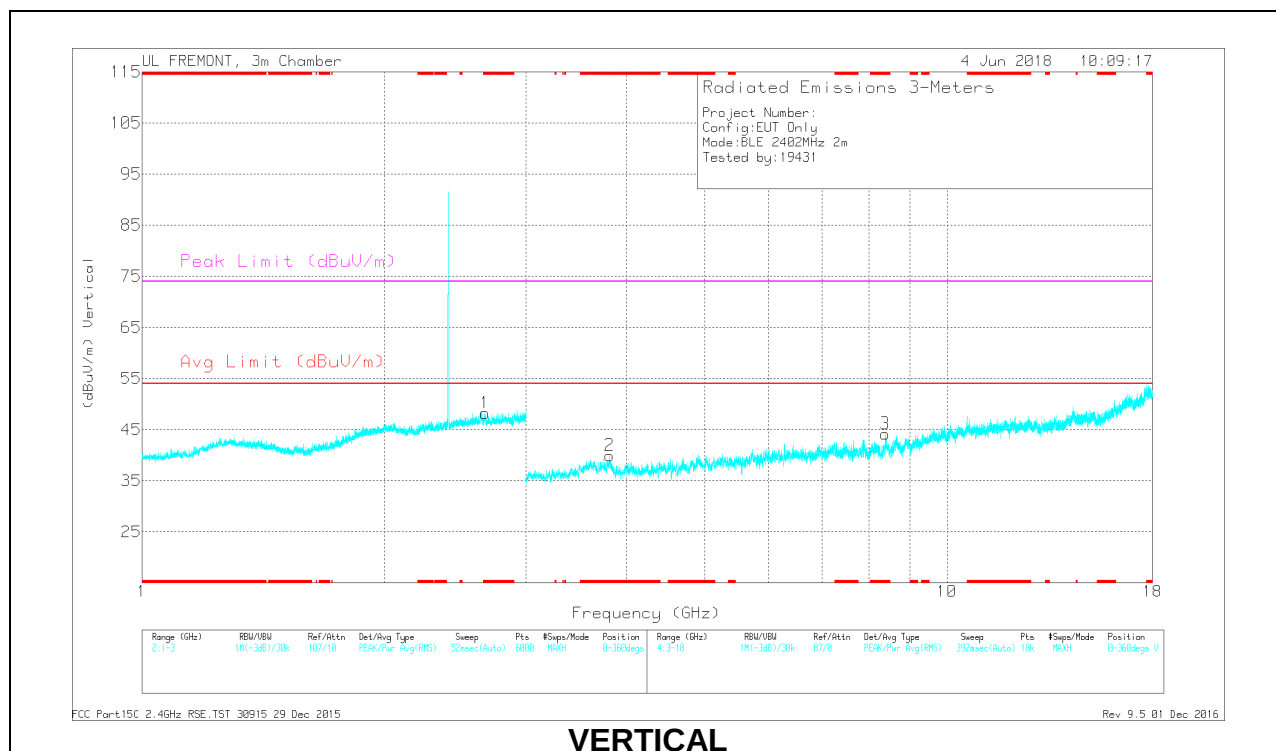
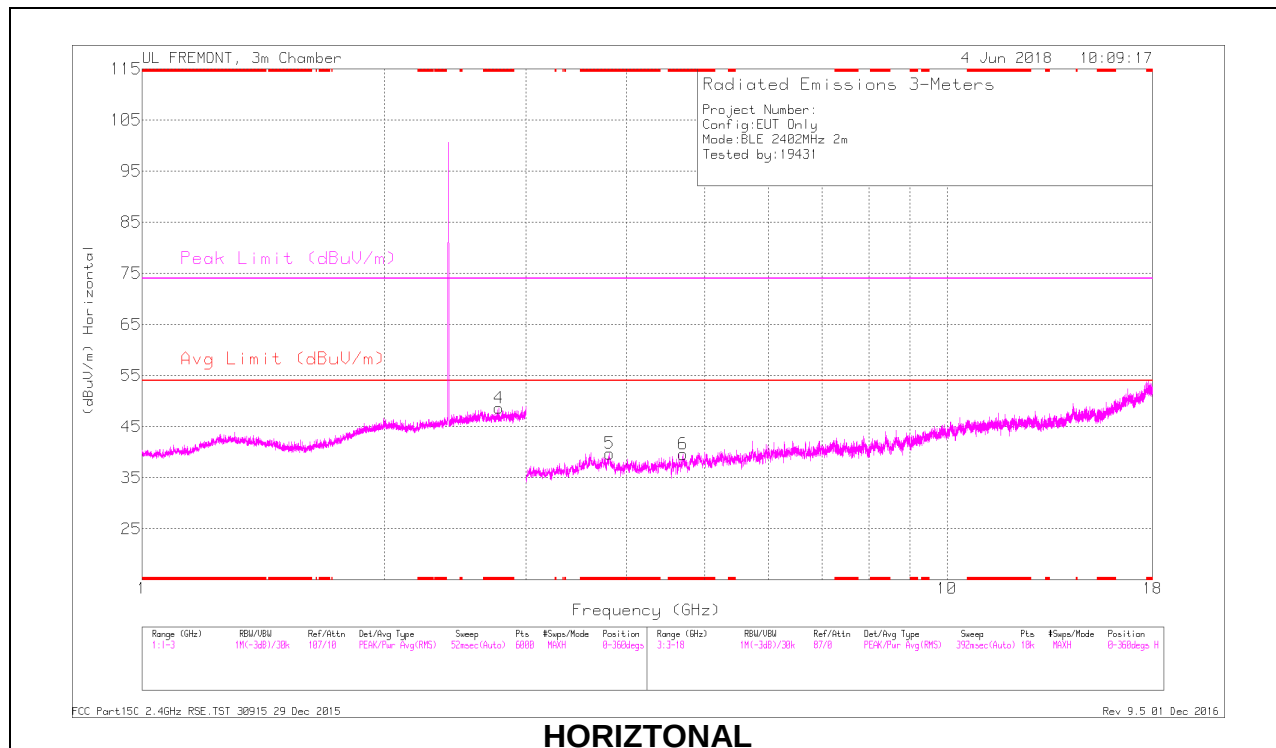
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

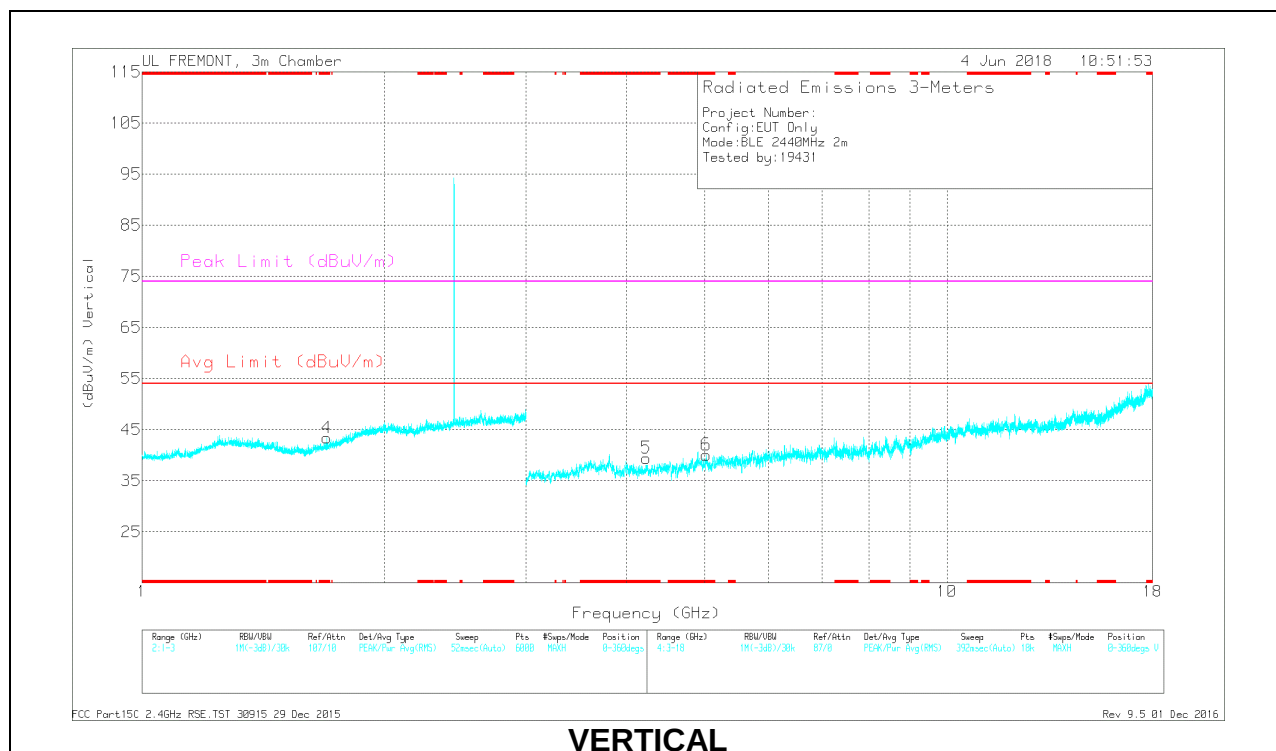
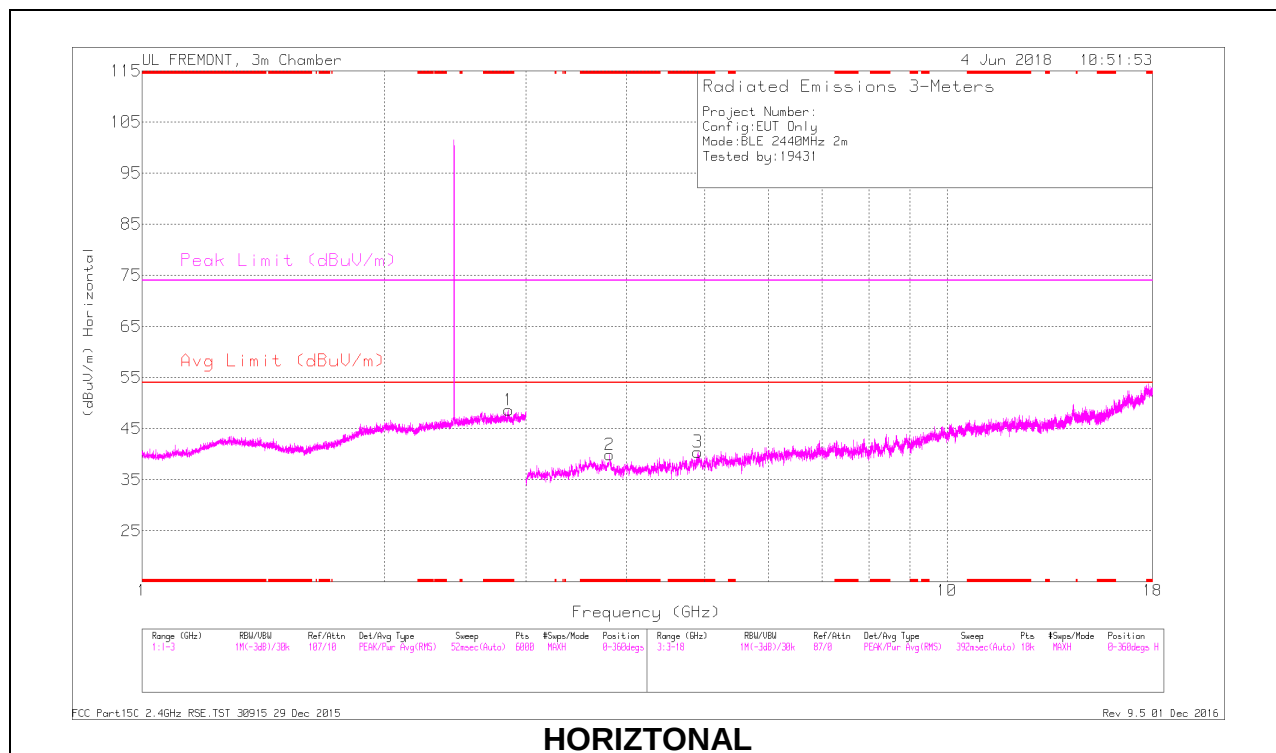
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.777	42.23	PK2	32.6	-20.2	54.63	-	-	74	-19.37	294	115	H
	* 2.774	30.13	MAv1	32.6	-20.3	42.43	54	-11.57	-	-	294	115	H
1	* 2.668	41.96	PK2	32.6	-19.6	54.96	-	-	74	-19.04	352	262	V
	* 2.669	29.99	MAv1	32.6	-19.7	42.89	54	-11.11	-	-	352	262	V
5	* 3.81	40.81	PK2	33.7	-26.7	47.81	-	-	74	-26.19	252	319	H
	* 3.811	28.87	MAv1	33.7	-26.8	35.77	54	-18.23	-	-	252	319	H
6	* 4.699	40.11	PK2	34	-27.3	46.81	-	-	74	-27.19	166	285	H
	* 4.701	28.5	MAv1	34	-27.3	35.2	54	-18.8	-	-	166	285	H
2	* 3.812	40.41	PK2	33.7	-26.9	47.21	-	-	74	-26.79	282	375	V
	* 3.812	28.84	MAv1	33.7	-26.9	35.64	54	-18.36	-	-	282	375	V
3	* 8.387	36.27	PK2	35.7	-21.8	50.17	-	-	74	-23.83	0	206	V
	* 8.386	24.68	MAv1	35.7	-21.6	38.78	54	-15.22	-	-	0	206	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

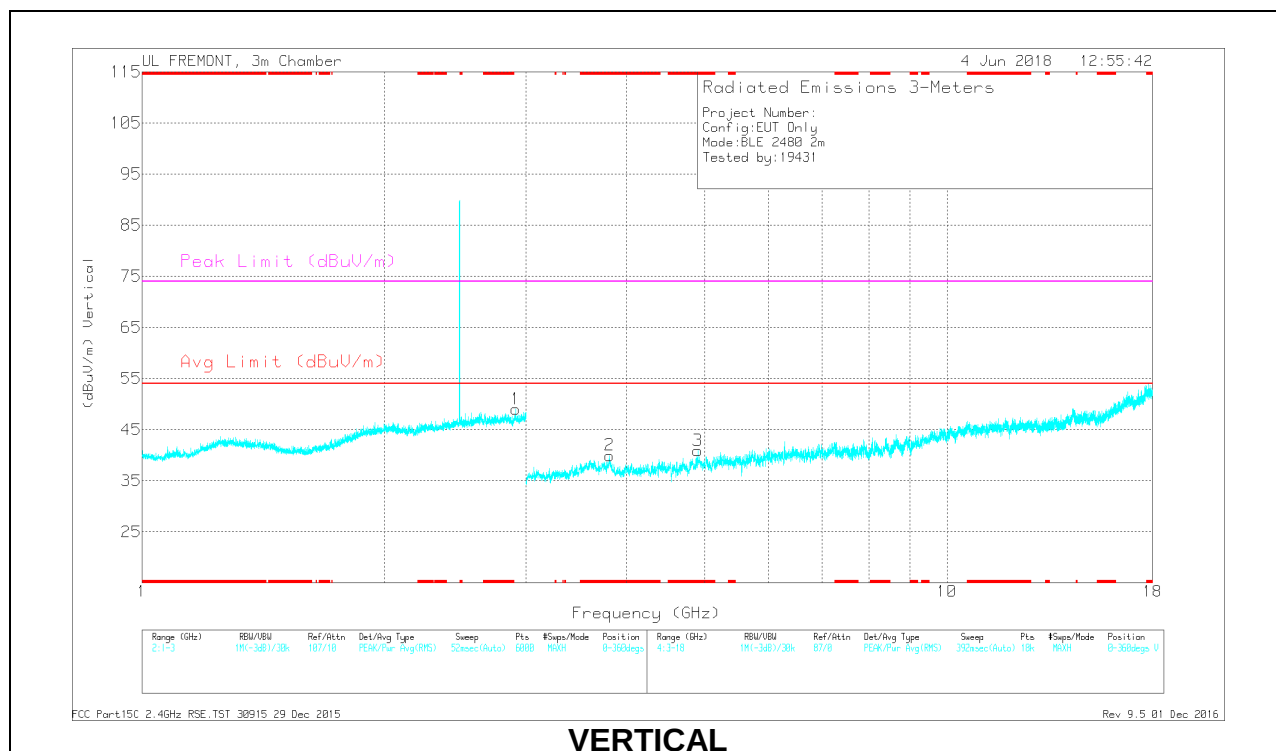
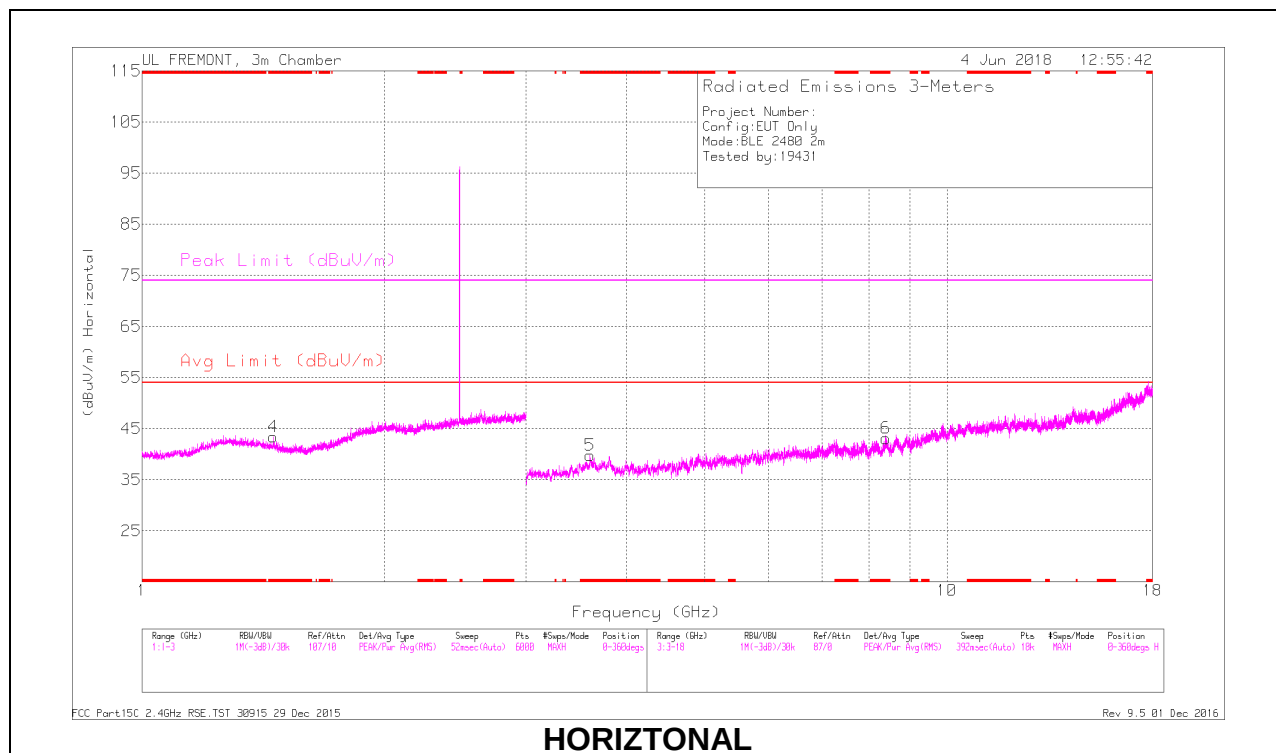
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.857	41.97	PK2	32.7	-20.3	54.37	-	-	74	-19.63	138	352	H
	* 2.855	30.25	MAv1	32.7	-20.2	42.75	54	-11.25	-	-	138	352	H
4	* 1.699	41.83	PK2	28.8	-21.6	49.03	-	-	74	-24.97	255	103	V
	* 1.696	30.21	MAv1	28.8	-21.6	37.41	54	-16.59	-	-	255	103	V
2	* 3.81	40.7	PK2	33.7	-26.7	47.7	-	-	74	-26.3	11	289	H
	* 3.811	28.88	MAv1	33.7	-26.8	35.78	54	-18.22	-	-	11	289	H
3	* 4.903	39.92	PK2	34	-26.2	47.72	-	-	74	-26.28	163	222	H
	* 4.905	28.18	MAv1	34	-26.4	35.78	54	-18.22	-	-	163	222	H
5	* 4.229	40.16	PK2	33.4	-28.3	45.26	-	-	74	-28.74	188	191	V
	* 4.231	28.7	MAv1	33.4	-28.5	33.6	54	-20.4	-	-	188	191	V
6	* 5.024	37.56	PK2	34.2	-25	46.76	-	-	74	-27.24	358	268	V
	* 5.025	26.04	MAv1	34.2	-25.1	35.14	54	-18.86	-	-	358	268	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	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.457	42.27	PK2	28.8	-21	50.07	-	-	74	-23.93	138	216	H
	* 1.458	30.02	MAv1	28.8	-21.1	37.72	54	-16.28	-	-	138	216	H
5	* 3.602	41.13	PK2	34.7	-29.3	46.53	-	-	74	-27.47	336	184	H
	* 3.602	29.38	MAv1	34.7	-29.3	34.78	54	-19.22	-	-	336	184	H
6	* 8.402	36.61	PK2	35.7	-21.5	50.81	-	-	74	-23.19	53	394	H
	* 8.4	24.7	MAv1	35.7	-21.5	38.9	54	-15.1	-	-	53	394	H
2	* 3.808	39.67	PK2	33.7	-26.8	46.57	-	-	74	-27.43	68	102	V
	* 3.809	28.63	MAv1	33.7	-26.7	35.63	54	-18.37	-	-	68	102	V
3	* 4.903	40.19	PK2	34	-26.3	47.89	-	-	74	-26.11	237	158	V
	* 4.905	28.15	MAv1	34	-26.4	35.75	54	-18.25	-	-	237	158	V
1	2.913	41.77	PK2	32.9	-19.9	54.77	-	-	74	-19.23	155	398	V

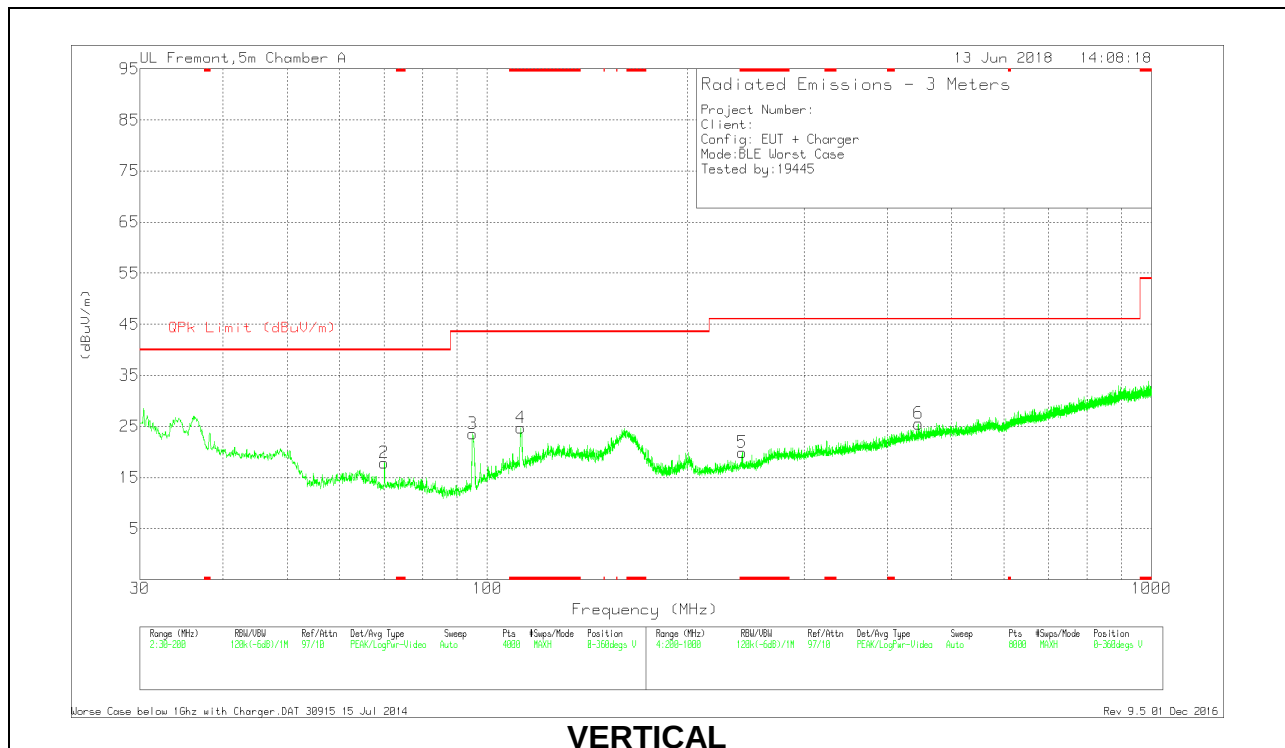
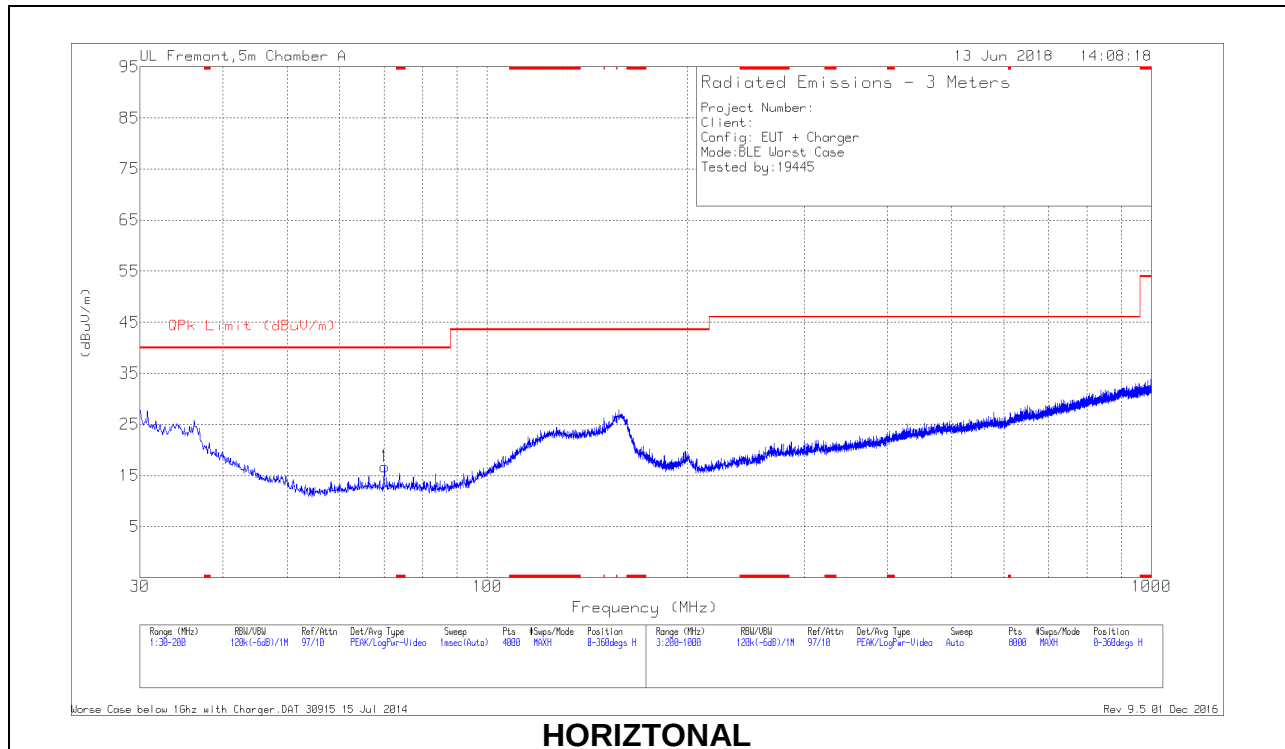
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.3. Worst Case Below 1 GHz

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

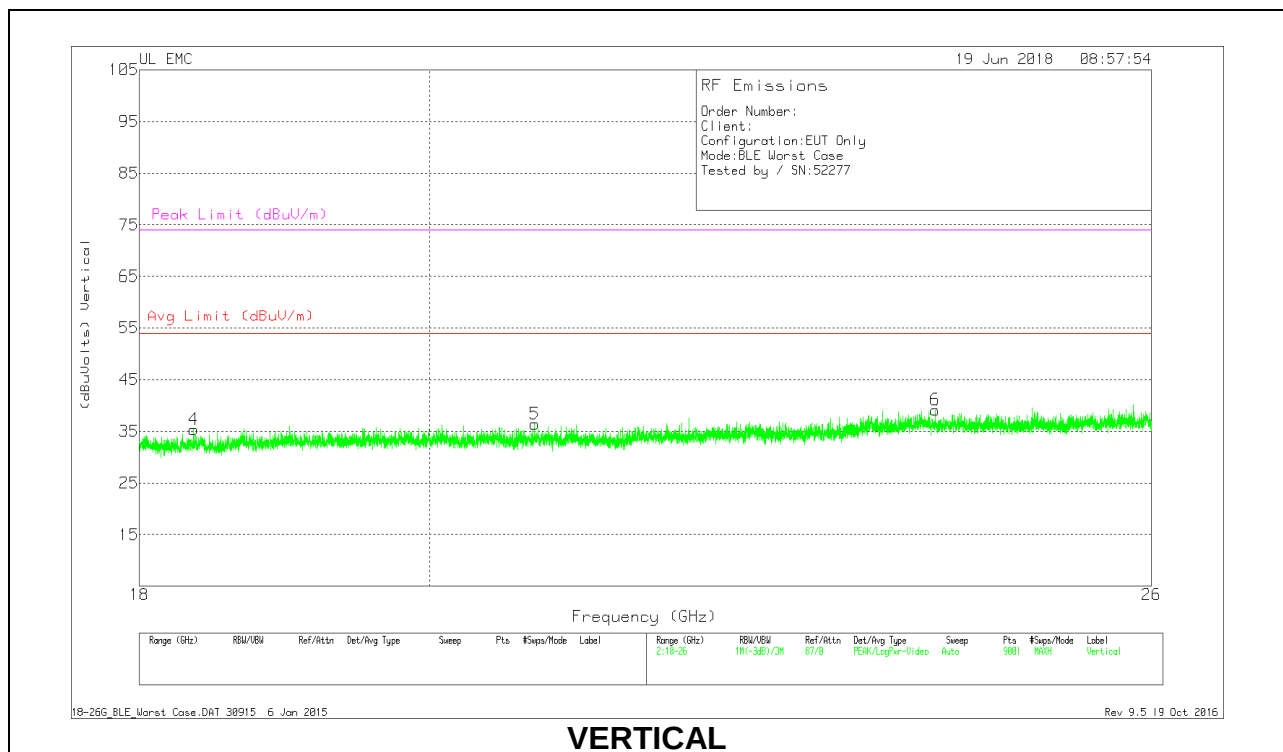
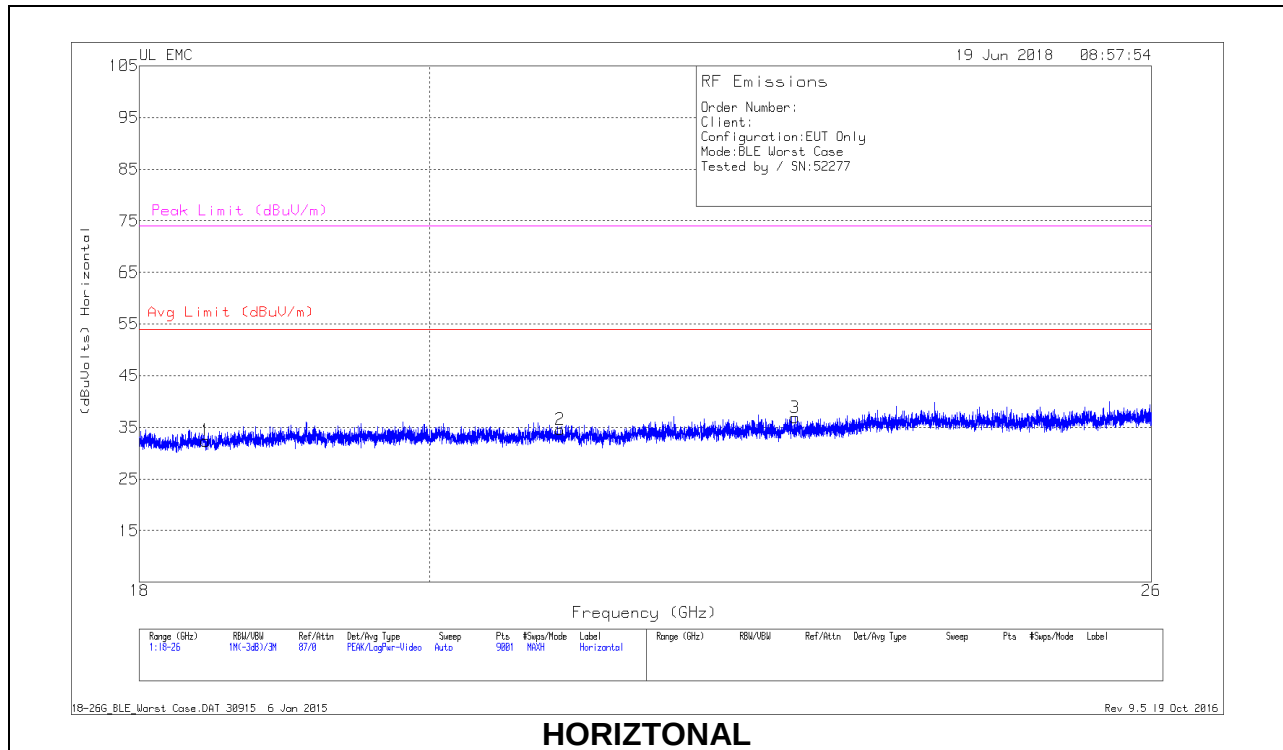


Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 112.3651	33.98	Pk	17	-26.3	24.68	43.52	-18.84	0-360	100	V
5	* 242.2055	29.34	Pk	15.5	-24.9	19.94	46.02	-26.08	0-360	101	V
2	70.0029	32.5	Pk	12.1	-26.7	17.9	40	-22.1	0-360	100	V
1	70.0454	31.31	Pk	12.1	-26.7	16.71	40	-23.29	0-360	100	H
3	95.0418	37.15	Pk	12.8	-26.4	23.55	43.52	-19.97	0-360	100	V
6	445.5319	30.04	Pk	20.7	-25.2	25.54	46.02	-20.48	0-360	101	V

9.4. Worst Case 18-26 GHz

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



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.438	35.39	Pk	32.3	-25.8	-9.5	32.39	54	-21.61	74	-41.61
2	20.973	36.54	Pk	33.2	-25.7	-9.5	34.54	54	-19.46	74	-39.46
3	22.84	38.07	Pk	33.5	-25.2	-9.5	36.87	54	-17.13	74	-37.13
4	18.358	37.64	Pk	32.3	-25.1	-9.5	35.34	54	-18.66	74	-38.66
5	20.779	37.85	Pk	33	-24.9	-9.5	36.45	54	-17.55	74	-37.55
6	24.035	39	Pk	33.9	-24.3	-9.5	39.1	54	-14.9	74	-34.9

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

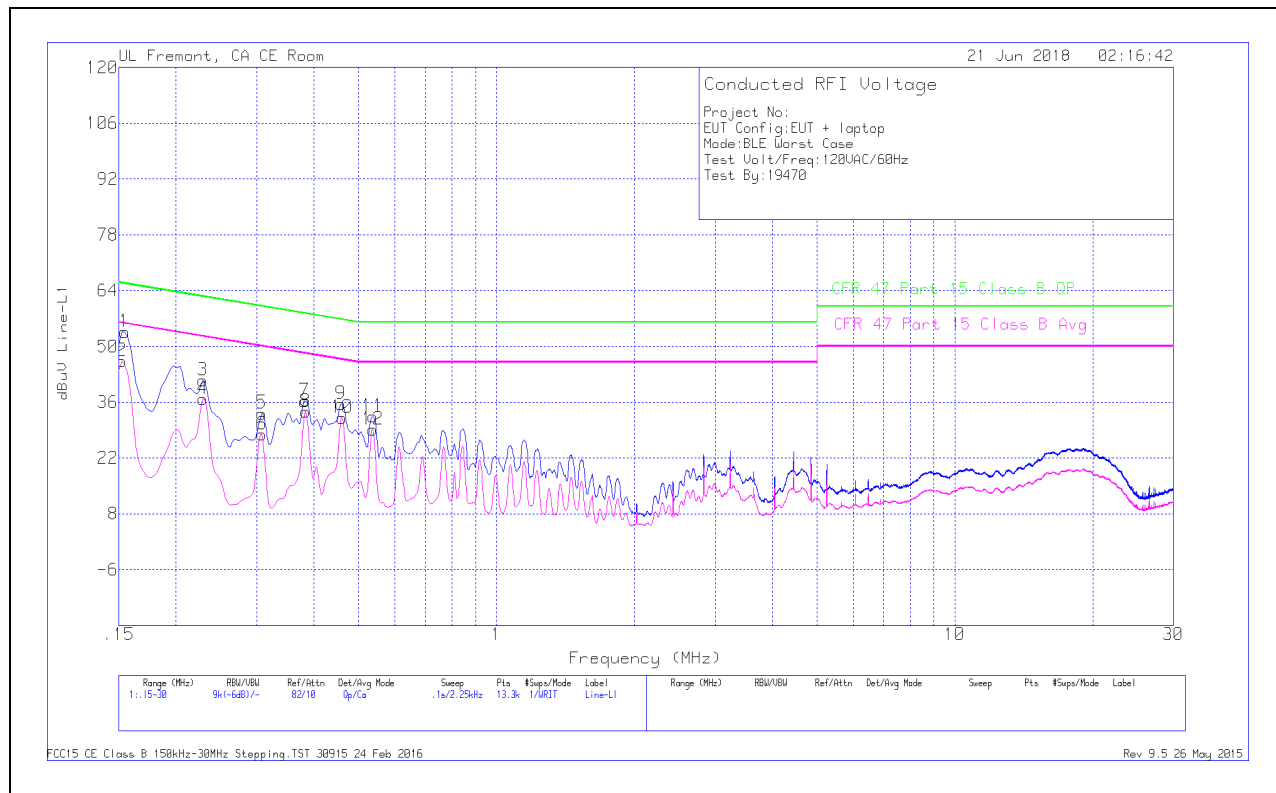
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS



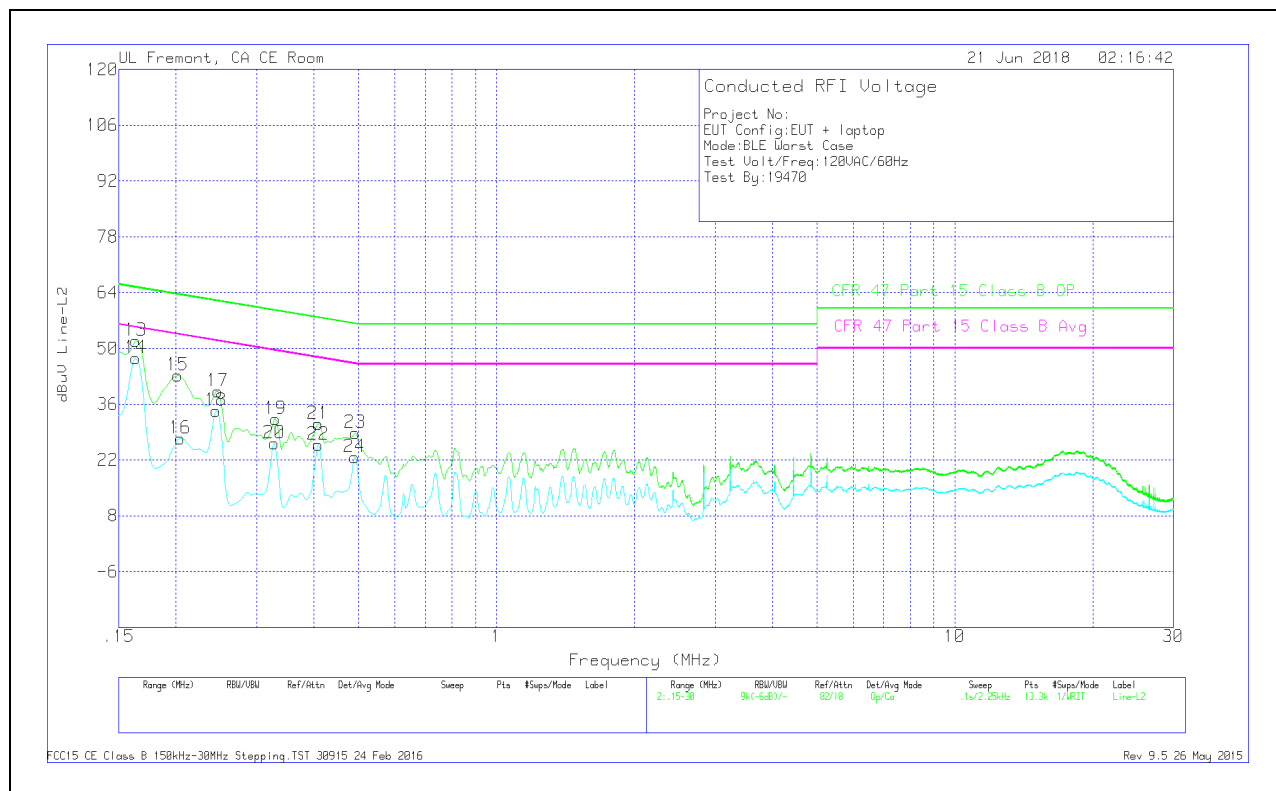
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.1545	42.84	Qp	.7	0	10.1	53.64	65.75	-12.11	-	-
2	.15225	35.6	Ca	.7	0	10.1	46.4	-	-	55.88	-9.48
3	.22875	30.88	Qp	.5	0	10.1	41.48	62.49	-21.01	-	-
4	.22875	26.24	Ca	.5	0	10.1	36.84	-	-	52.49	-15.65
5	.3075	22.72	Qp	.4	0	10.1	33.22	60.04	-26.82	-	-
6	.3075	17.38	Ca	.4	0	10.1	27.88	-	-	50.04	-22.16
7	.38175	26	Qp	.2	0	10.1	36.3	58.24	-21.94	-	-
8	.384	23.43	Ca	.2	0	10.1	33.73	-	-	48.19	-14.46
9	.45825	25.38	Qp	.1	0	10.1	35.58	56.72	-21.14	-	-
10	.4605	21.97	Ca	.1	0	10.1	32.17	-	-	46.68	-14.51
11	.537	22.18	Qp	.1	0	10.1	32.38	56	-23.62	-	-
12	.537	18.91	Ca	.1	0	10.1	29.11	-	-	46	-16.89

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



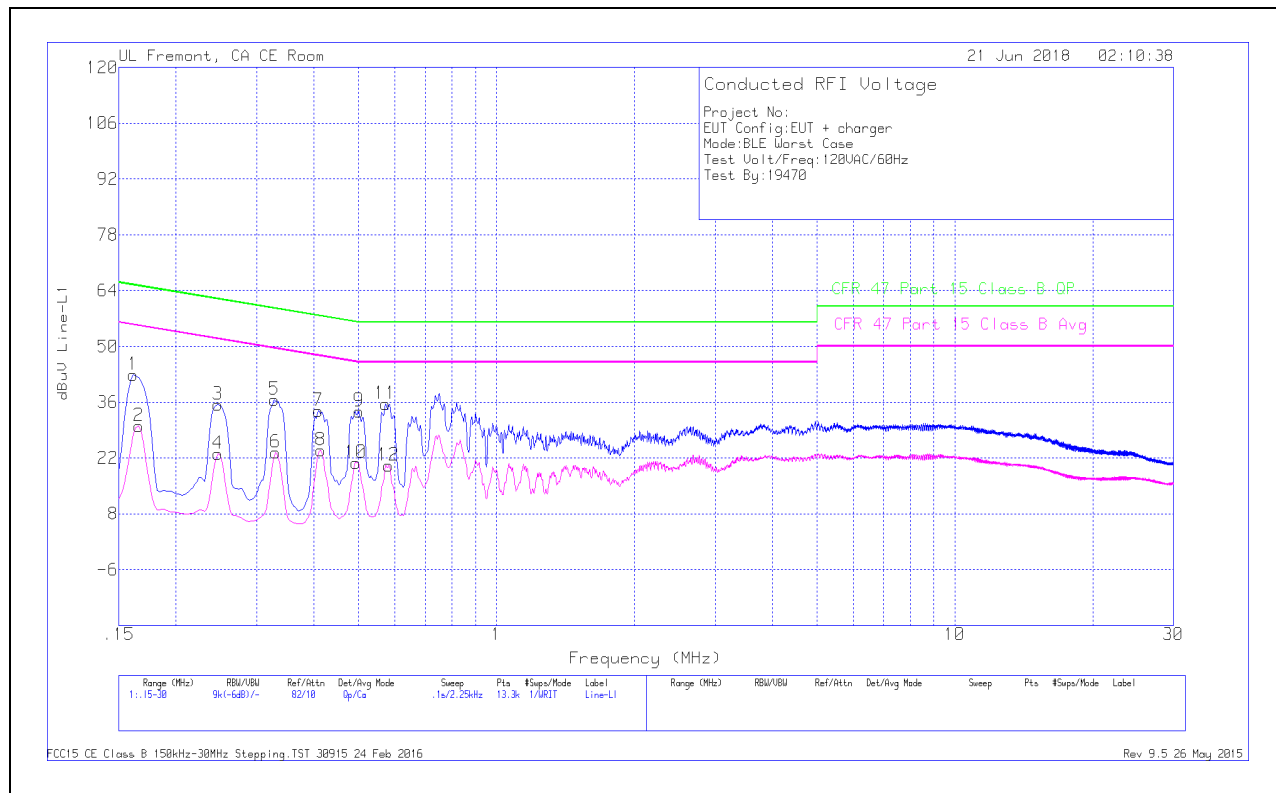
Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1635	41.68	Qp	.1	0	10.1	51.88	65.28	-13.4	-	-
14	.1635	37.43	Ca	.1	0	10.1	47.63	-	-	55.28	-7.65
15	.20175	33.01	Qp	.1	0	10.1	43.21	63.54	-20.33	-	-
16	.204	17.21	Ca	.1	0	10.1	27.41	-	-	53.45	-26.04
17	.24675	28.98	Qp	.1	0	10.1	39.18	61.87	-22.69	-	-
18	.2445	24.21	Ca	.1	0	10.1	34.41	-	-	51.94	-17.53
19	.33	22.13	Qp	.1	0	10.1	32.33	59.45	-27.12	-	-
20	.32775	15.94	Ca	.1	0	10.1	26.14	-	-	49.51	-23.37
21	.40875	20.85	Qp	.1	0	10.1	31.05	57.67	-26.62	-	-
22	.40875	15.64	Ca	.1	0	10.1	25.84	-	-	47.67	-21.83
23	.492	18.56	Qp	.1	0	10.1	28.76	56.13	-27.37	-	-
24	.49087	12.44	Ca	.1	0	10.1	22.64	-	-	46.15	-23.51

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS

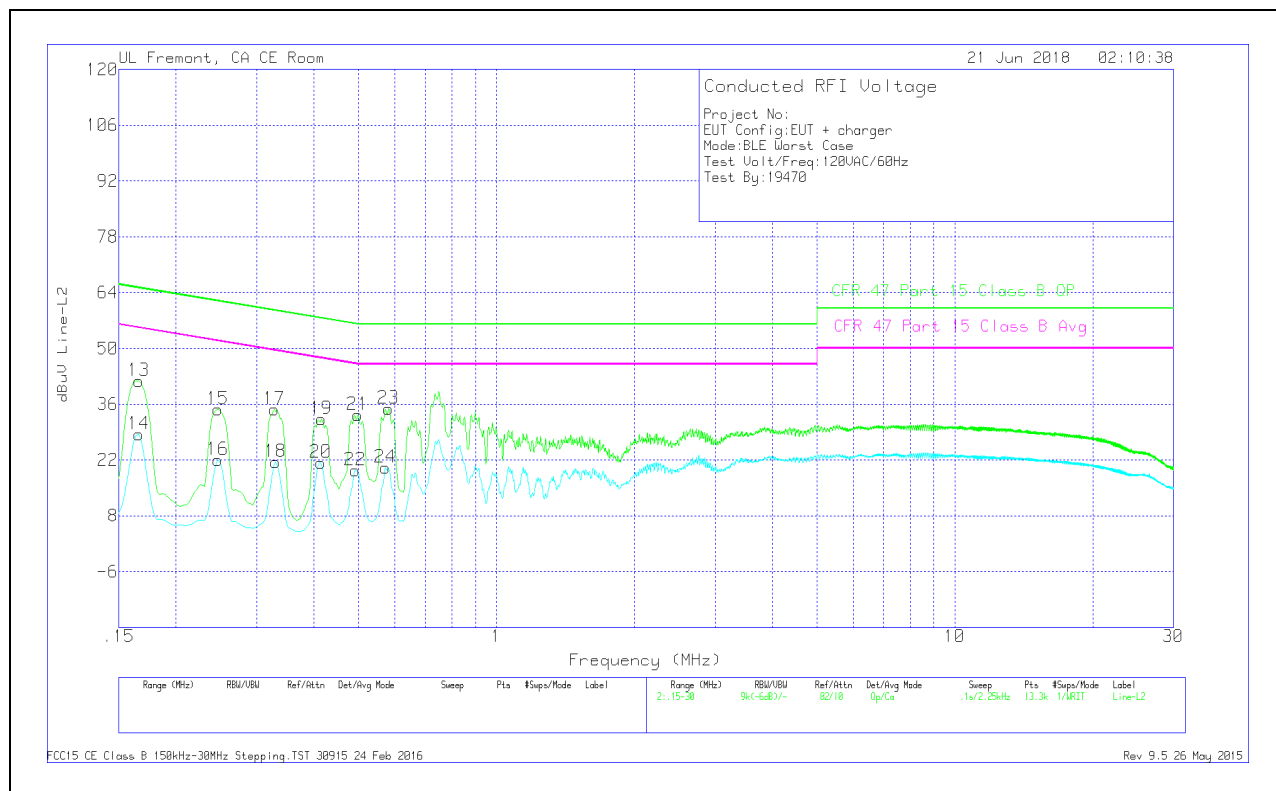


Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBUV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	32.06	Qp	.7	0	10.1	42.86	65.4	-22.54	-	-
2	.16575	19.19	Ca	.7	0	10.1	29.99	-	-	55.17	-25.18
3	.24675	24.94	Qp	.4	0	10.1	35.44	61.87	-26.43	-	-
4	.24675	12.6	Ca	.4	0	10.1	23.1	-	-	51.87	-28.77
5	.32775	26.14	Qp	.3	0	10.1	36.54	59.51	-22.97	-	-
6	.33	13.01	Ca	.3	0	10.1	23.41	-	-	49.45	-26.04
7	.40875	23.51	Qp	.2	0	10.1	33.81	57.67	-23.86	-	-
8	.41325	13.68	Ca	.2	0	10.1	23.98	-	-	47.58	-23.6
9	.501	23.54	Qp	.1	0	10.1	33.74	56	-22.26	-	-
10	.49425	10.65	Ca	.1	0	10.1	20.85	-	-	46.1	-25.25
11	.573	25.38	Qp	.1	0	10.1	35.58	56	-20.42	-	-
12	.582	9.9	Ca	.1	0	10.1	20.1	-	-	46	-25.9

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.16575	31.65	Qp	.1	0	10.1	41.85	65.17	-23.32	-	-
14	.16575	18.19	Ca	.1	0	10.1	28.39	-	-	55.17	-26.78
15	.24675	24.46	Qp	.1	0	10.1	34.66	61.87	-27.21	-	-
16	.24675	11.89	Ca	.1	0	10.1	22.09	-	-	51.87	-29.78
17	.32775	24.49	Qp	.1	0	10.1	34.69	59.51	-24.82	-	-
18	.33	11.22	Ca	.1	0	10.1	21.42	-	-	49.45	-28.03
19	.4155	21.99	Qp	.1	0	10.1	32.19	57.54	-25.35	-	-
20	.41325	11.18	Ca	.1	0	10.1	21.38	-	-	47.58	-26.2
21	.49875	23.05	Qp	.1	0	10.1	33.25	56.02	-22.77	-	-
22	.492	9.14	Ca	.1	0	10.1	19.34	-	-	46.13	-26.79
23	.582	24.61	Qp	.1	0	10.1	34.81	56	-21.19	-	-
24	.573	9.94	Ca	.1	0	10.1	20.14	-	-	46	-25.86

Qp - Quasi-Peak detector
Ca - CISPR average detection

END OF REPORT

11. SETUP PHOTOS

Please refer to 12162294-EP1V1 for setup photos