

10. RADIATED TEST RESULTS

10.1. 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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Compliance with radiated spurious emissions limits in the restricted bands closest to the allocated 2404 – 2478 MHz band were performed on all modes for the low and high channels. Additional measurements on adjacent channels to the low and/or high channels were limited to cases where the edge channels have a significantly lower rated power than the adjacent channels.

Compliance with radiated spurious emissions limits in the restricted bands between 1GHz and 18GHz (except as explained for the band edge) the operating band were performed on the low, middle and high channel for HDR8 mode. As this mode has the highest output power and highest power spectral density it is considered worst case for spurious emissions across all modes. For these tests both transmit chains were operating simultaneously and set to the maximum power per chain to cover both TXBF mode. Spurious emissions for frequencies below 1Ghz and above 18GHz were limited to the center channel as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands.

RESULTS:

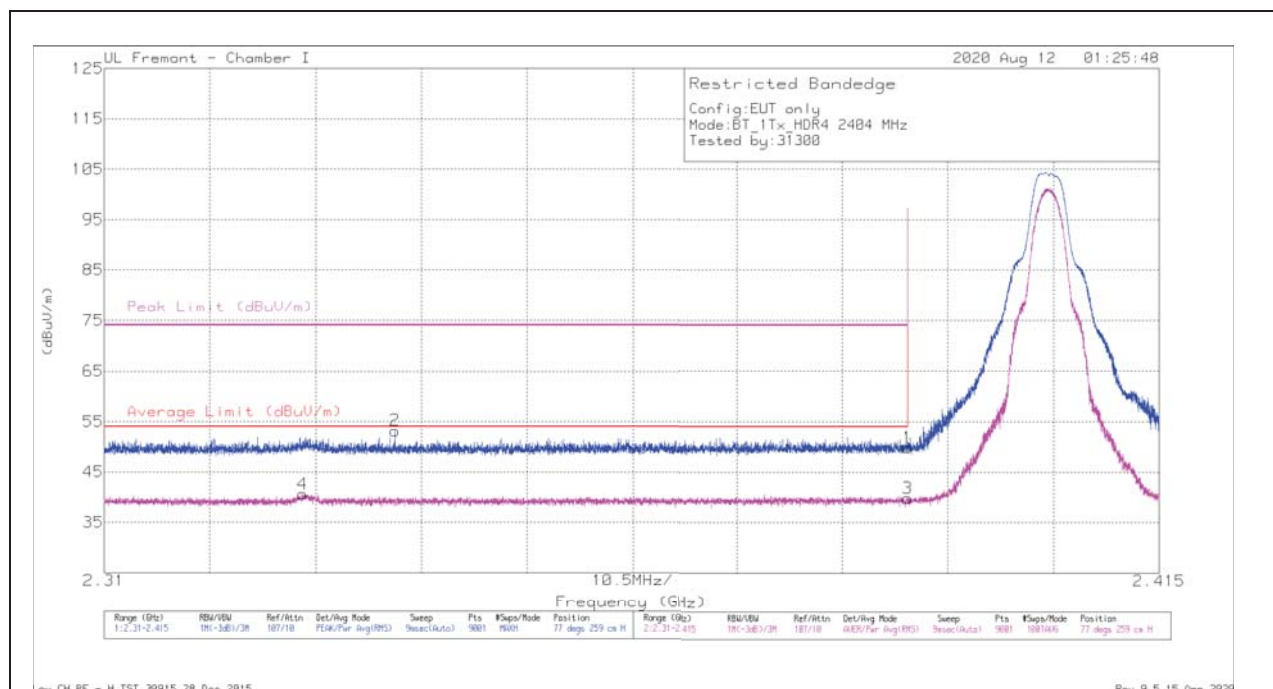
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. HIGH POWER HDR (HDR4)

ANT 4

BANDEDGE (LOW CHANNEL)

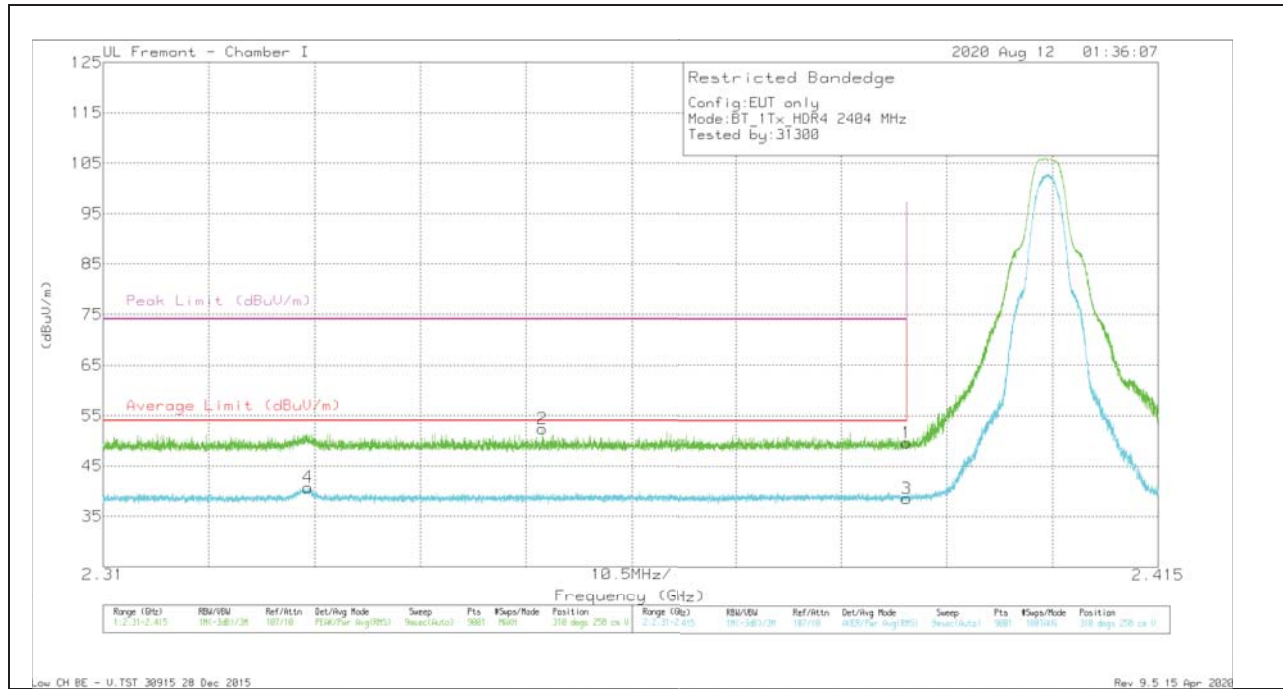
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	35.26	Pk	32	-17.3	49.96	-	-	74	-24.04	77	259	H
2	* 2.33889	38.61	Pk	31.8	-17.2	53.21	-	-	74	-20.79	77	259	H
3	* 2.38999	25.19	RMS	32	-17.3	39.89	54	-14.11	-	-	77	259	H
4	* 2.32969	25.99	RMS	31.8	-17.2	40.59	54	-13.41	-	-	77	259	H

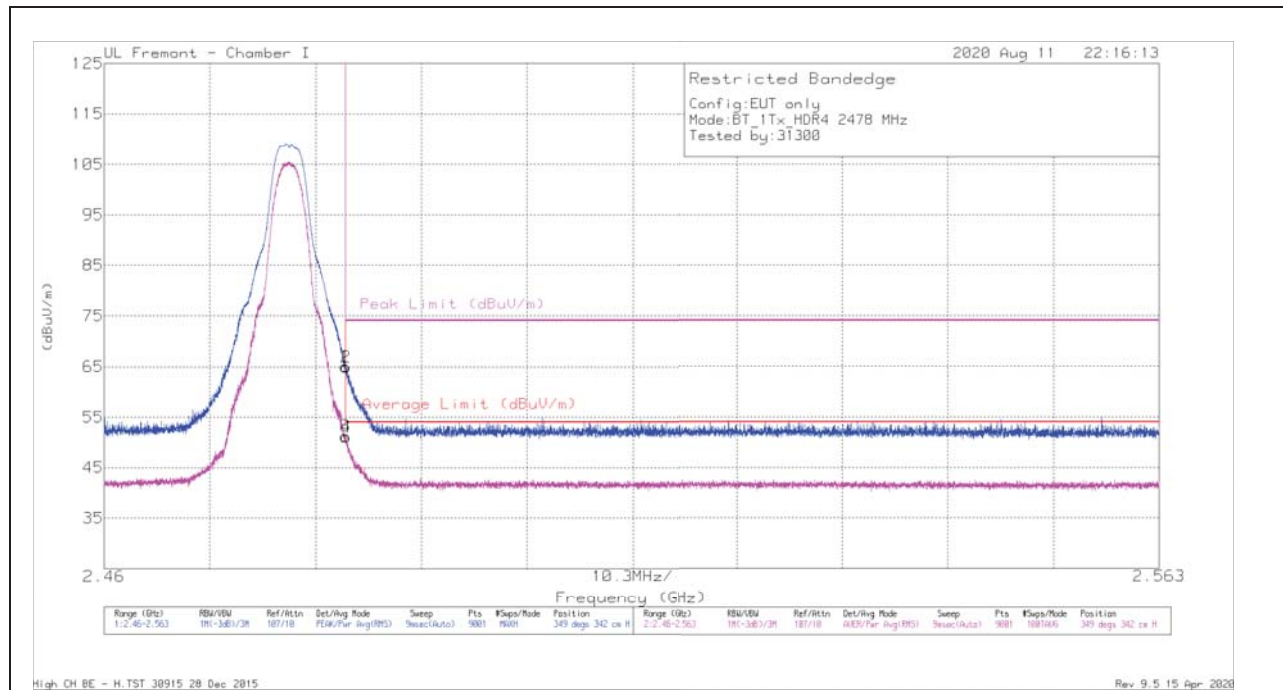
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	35.01	Pk	32	-17.3	49.71	-	-	74	-24.29	310	258	V
2	* 2.3536	37.79	Pk	31.8	-17.2	52.39	-	-	74	-21.61	310	258	V
3	* 2.38999	23.94	RMS	32	-17.3	38.64	54	-15.36	-	-	310	258	V
4	* 2.33036	26.19	RMS	31.8	-17.2	40.79	54	-13.21	-	-	310	258	V

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

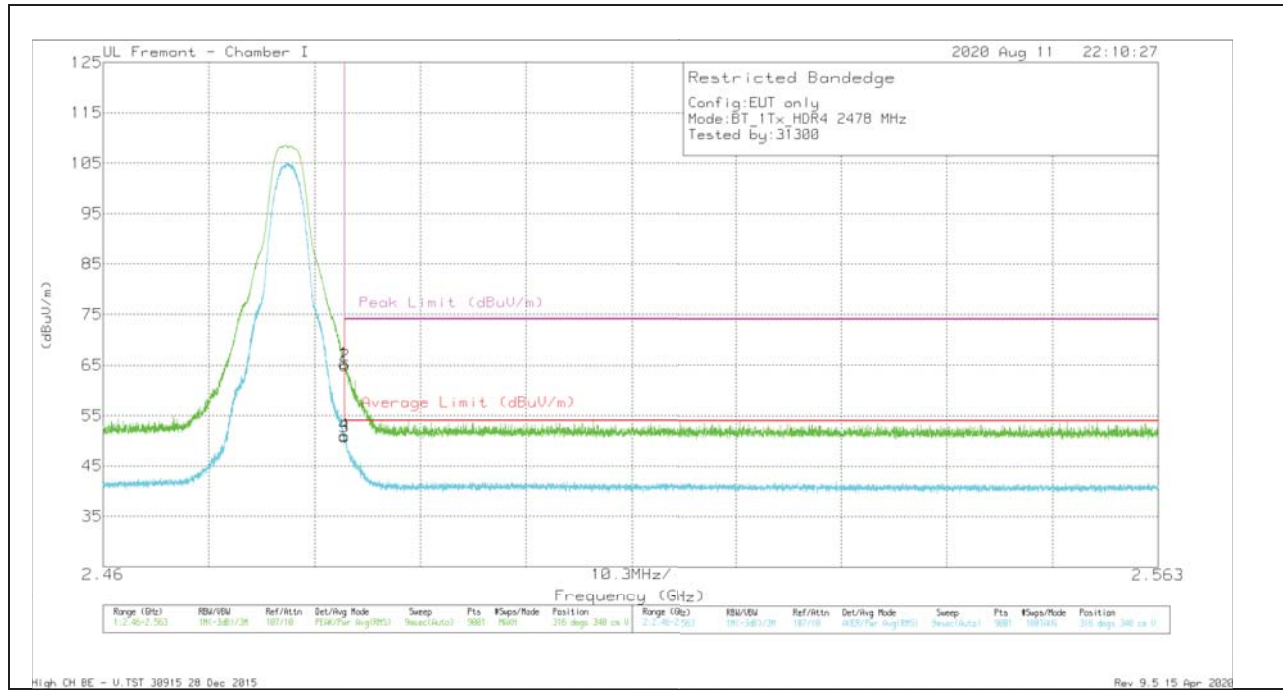
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	50.37	Pk	32.4	-17.7	65.07	-	-	74	-8.93	349	342	H
2	* 2.48354	50.28	Pk	32.4	-17.7	64.98	-	-	74	-9.02	349	342	H
3	* 2.48351	36.53	RMS	32.4	-17.7	51.23	54	-2.77	-	-	349	342	H
4	* 2.48356	36.28	RMS	32.4	-17.7	50.98	54	-3.02	-	-	349	342	H

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

Pk - Peak detector

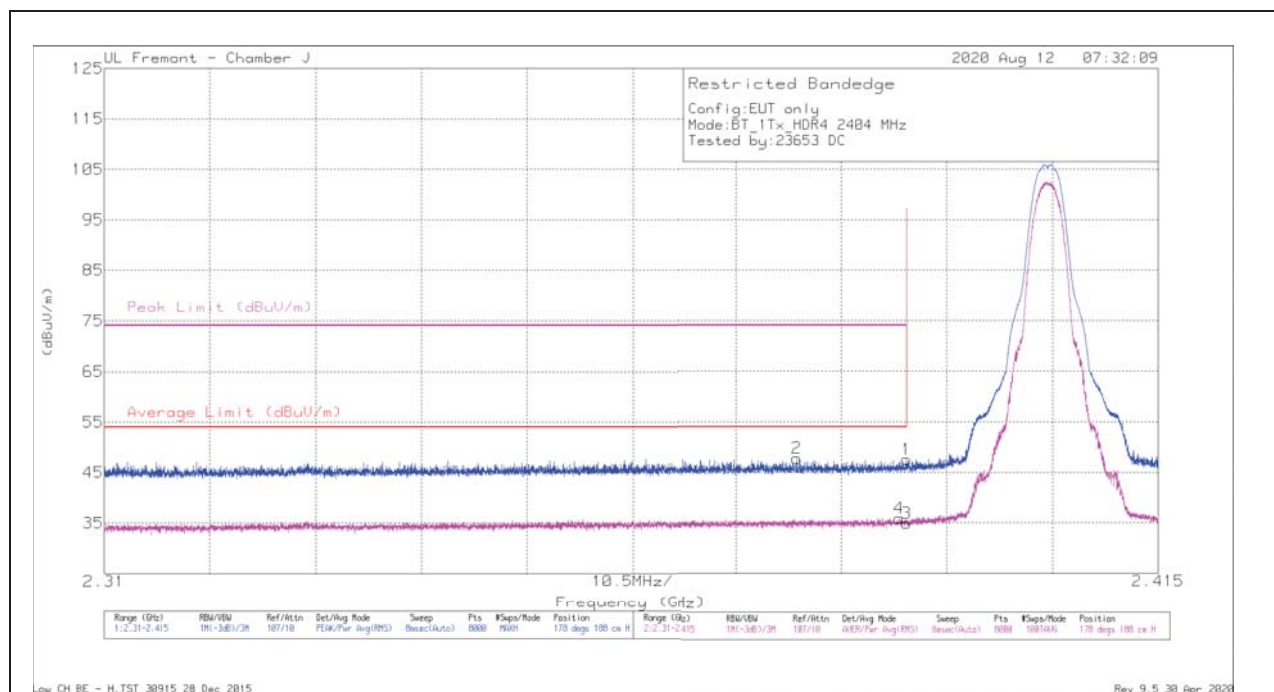
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbll/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	50.65	Pk	32.4	-17.7	65.35	-	-	74	-8.65	316	340	V
2	* 2.48356	50.29	Pk	32.4	-17.7	64.99	-	-	74	-9.01	316	340	V
3	* 2.48351	36.13	RMS	32.4	-17.7	50.83	54	-3.17	-	-	316	340	V
4	* 2.48352	36.4	RMS	32.4	-17.7	51.1	54	-2.9	-	-	316	340	V

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

ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Filt/Pa d (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	33.22	Pk	29	-14.7	47.92	-	-	74	-26.48	178	188	H
2	* 2.37903	33.45	Pk	29	-14.7	47.75	-	-	74	-26.25	178	188	H
3	* 2.39	20.61	RMS	29	-14.7	34.91	54	-19.09	-	-	178	188	H
4	* 2.38922	21.62	RMS	29	-14.7	35.92	54	-18.08	-	-	178	188	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber J

2020 Aug 12 07:24:41

Restricted Bandedge
Config: EUT only
Mode: BT_1Tx_HDR4 2404 MHz
Tested by: 23653 DC

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

dBuV/m

Frequency (GHz)

10.5MHz/

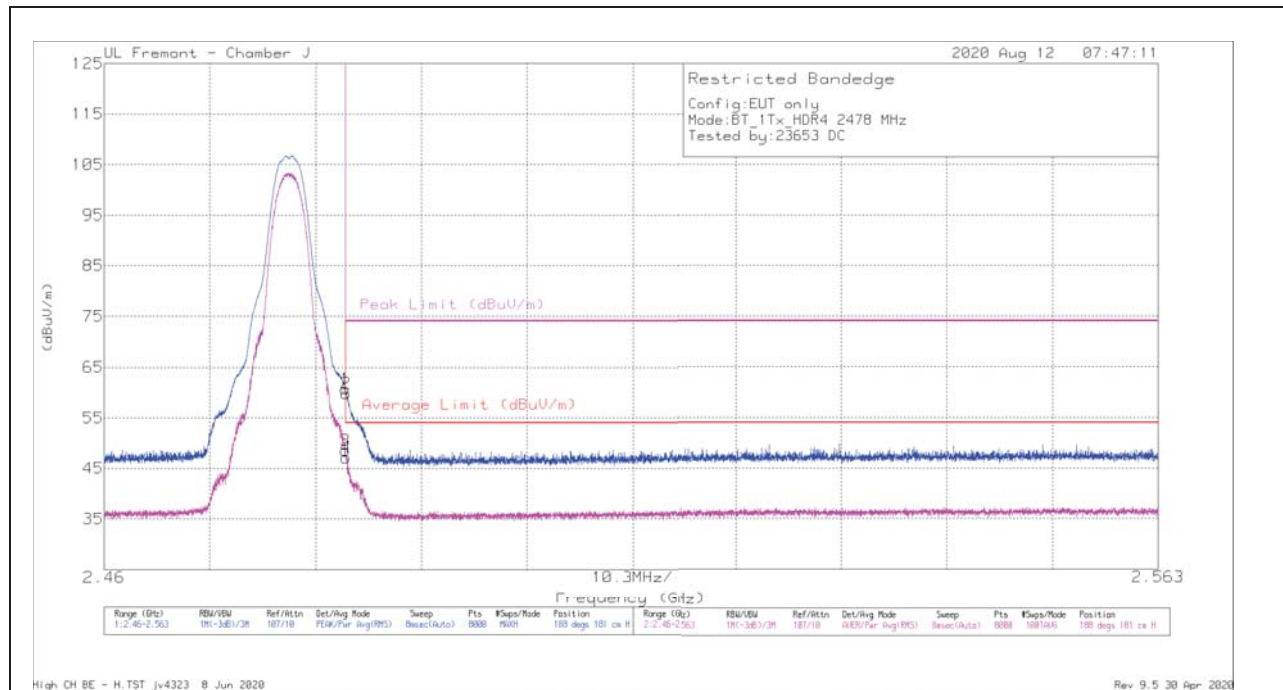
Range (GHz)	RBW/VBW	Ref/Att'n	Det/Avg Mode	Sweep	Pts	FSwps/Mode	Position	Range (Hz)	RBW/VBW	Ref/Att'n	Det/Avg Mode	Sweep	Pts	FSwps/Mode	Position
1.2 - 2.415	100 - 300 Hz/30	100/10	Peak/Var Avg (RMS)	Rescan (Auto)	8000	1000	2.35 segs, 296 ch 1	1.2 - 2.415	100 - 300 Hz/30	100/10	Peak/Var Avg (RMS)	Rescan (Auto)	8000	1000	2.35 segs, 296 ch 1

Low CH RE - U.TST 30915 28 Dec 2015

Rev. 9.5 30 Apr 2020

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1963 (dBm)	Amp/CBdIF/trPa d (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	31.75	Pk	29	-14.7	46.05	-	-	74	-27.95	235	296	V
2	* 2.38923	34.22	Pk	29	-14.7	48.52	-	-	74	-25.48	235	296	V
3	* 2.39	20.08	RMS	29	-14.7	34.38	54	-19.62	-	-	235	296	V
4	* 2.38855	21.22	RMS	29	-14.7	35.52	54	-18.48	-	-	235	296	V

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

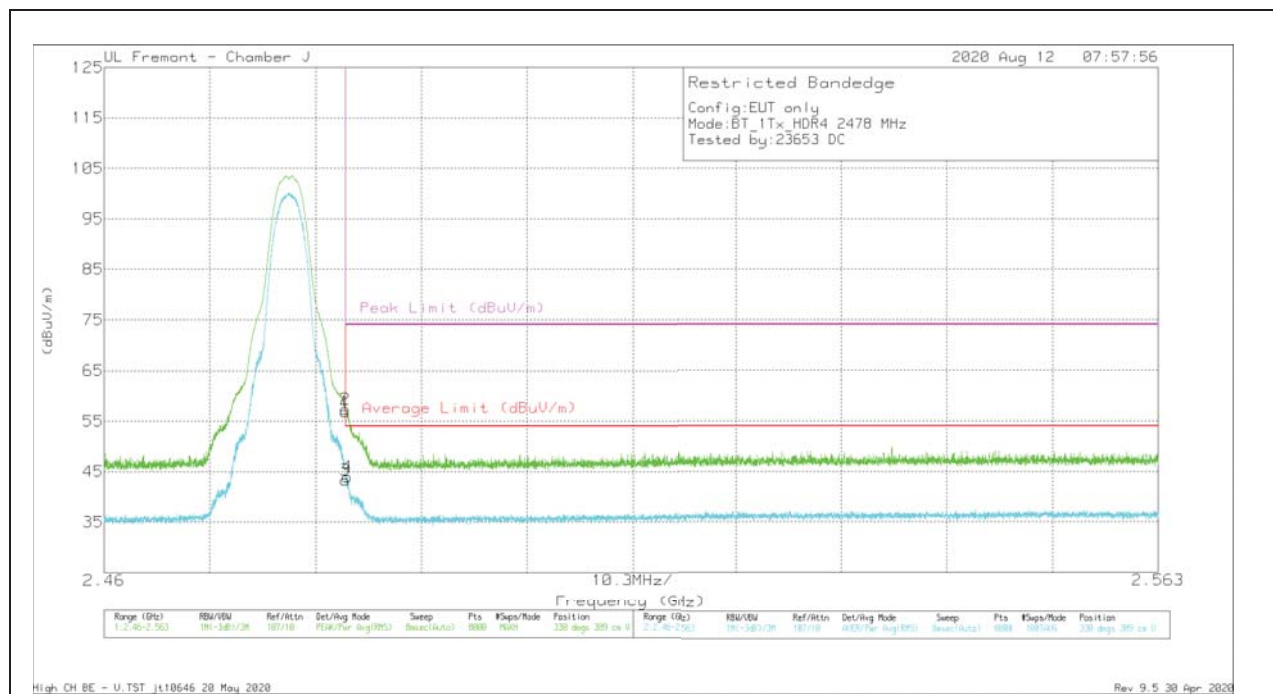
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Ampl/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	45.84	Pk	29.5	-14.6	60.74	-	-	74	-13.26	188	181	H
2	* 2.48356	44.97	Pk	29.5	-14.6	59.87	-	-	74	-14.13	188	181	H
3	* 2.4835	33.61	RMS	29.5	-14.6	48.51	54	-5.49	-	-	188	181	H
4	* 2.48356	32.23	RMS	29.5	-14.6	47.13	54	-6.87	-	-	188	181	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 T963 (dB/m)	Amp/Cbll/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.02	Pk	29.5	-14.6	56.92	-	-	74	-17.08	330	389	V
2	* 2.48351	42.5	Pk	29.5	-14.6	57.4	-	-	74	-16.6	330	389	V
3	* 2.4835	28.4	RMS	29.5	-14.6	43.3	54	-10.7	-	-	330	389	V
4	* 2.48367	29.11	RMS	29.5	-14.6	44.01	54	-9.99	-	-	330	389	V

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

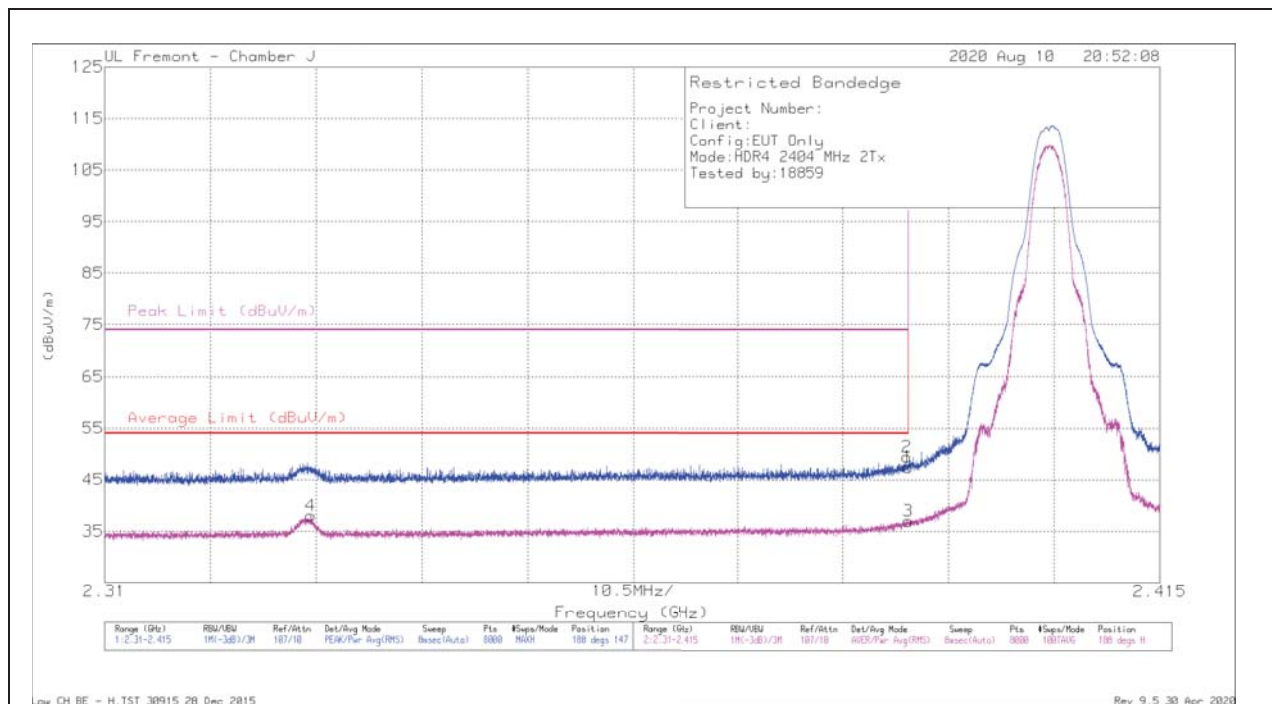
Pk - Peak detector

RMS - RMS detection

10.2.2. HIGH POWER HDR TXBF (HDR4)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



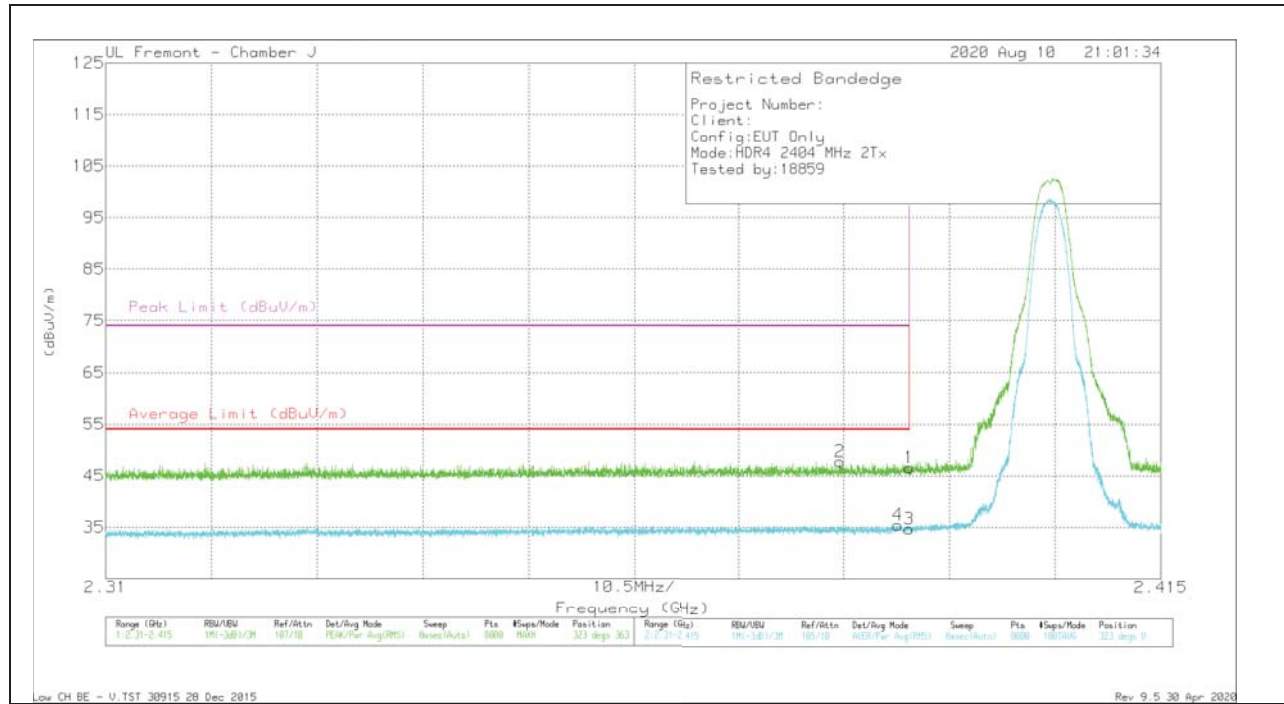
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/CbI/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	33.18	Pk	29	-14.7	47.48	-	-	74	-26.52	188	147	H
2	* 2.38986	35.17	Pk	29	-14.7	49.47	-	-	74	-24.53	188	147	H
3	* 2.39	22.71	RMS	29	-14.7	37.01	54	-16.99	-	-	188	147	H
4	* 2.33047	23.99	RMS	28.9	-14.9	37.99	54	-16.01	-	-	188	147	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT

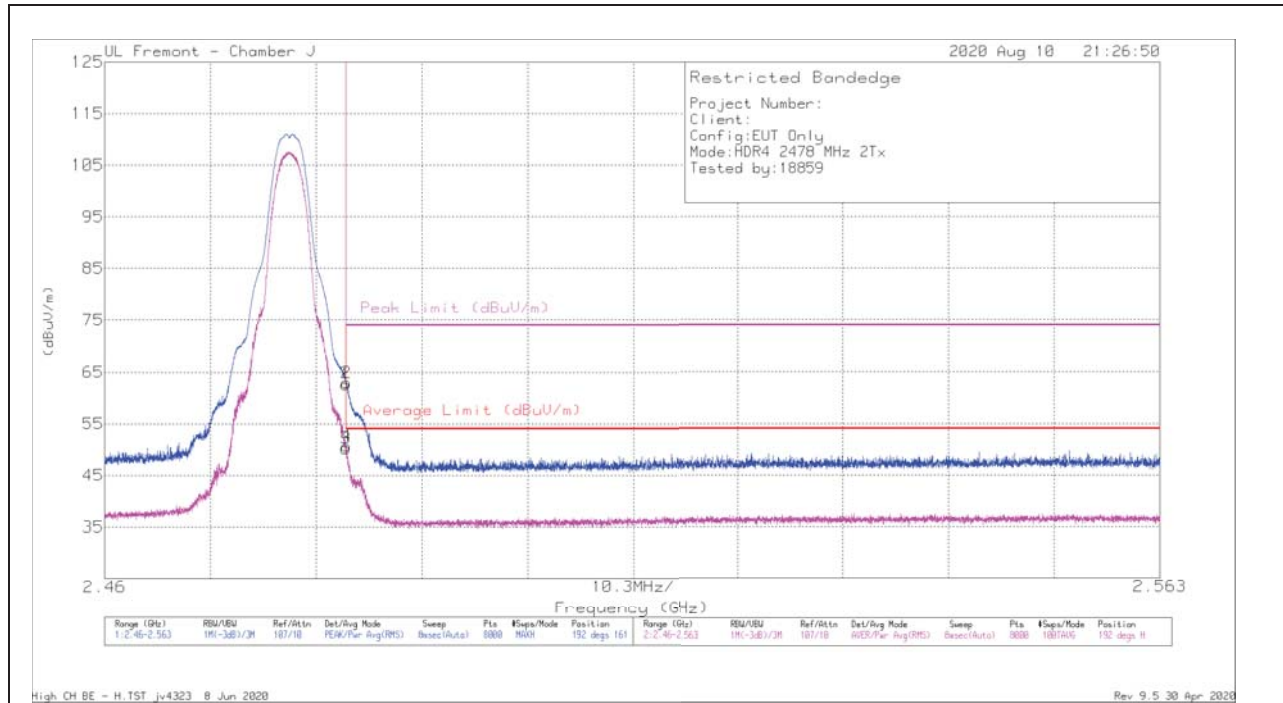


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	32.27	Pk	29	-14.7	46.57	-	-	74	-27.43	323	363	V
2	* 2.38312	33.47	Pk	29	-14.7	47.77	-	-	74	-26.23	323	363	V
3	* 2.39	20.43	RMS	29	-14.7	34.73	54	-19.27	-	-	323	363	V
4	* 2.38884	21.17	RMS	29	-14.7	35.47	54	-18.53	-	-	323	363	V

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

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

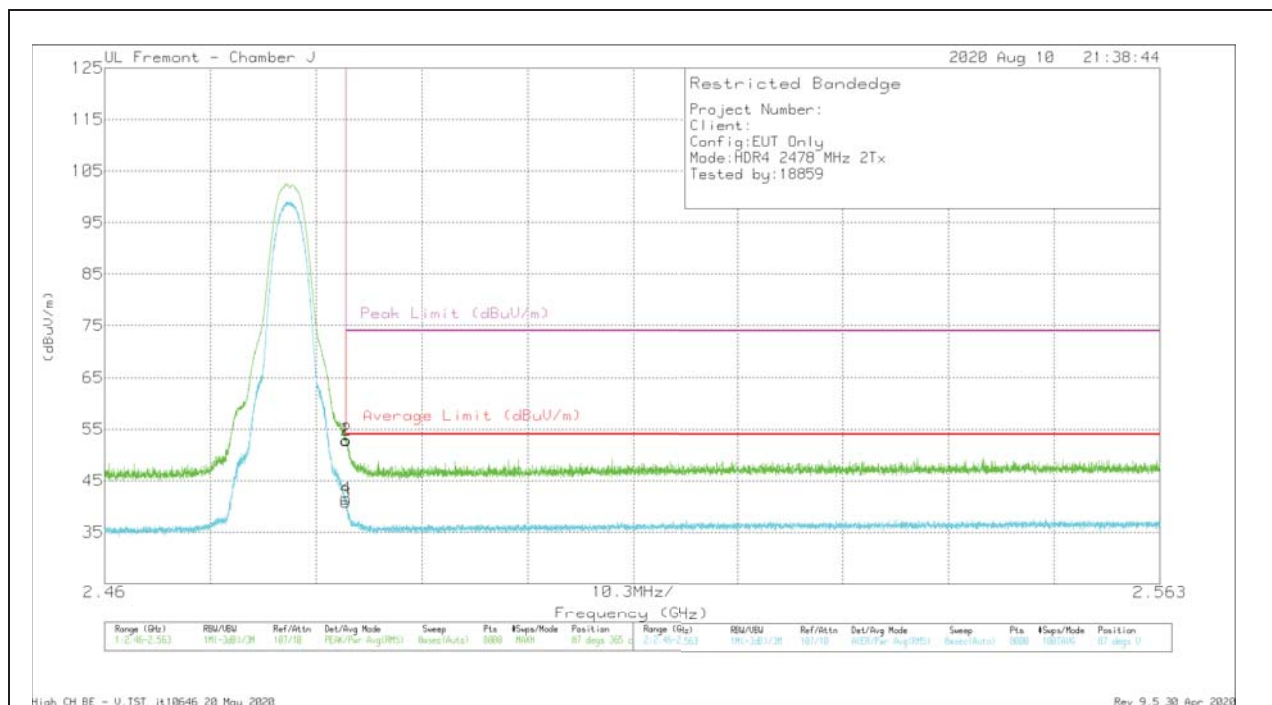
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	47.78	Pk	29.5	-14.6	62.68	-	-	74	-11.32	192	161	H
2	* 2.48354	48.08	Pk	29.5	-14.6	62.98	-	-	74	-11.02	192	161	H
3	* 2.4835	35.37	RMS	29.5	-14.6	50.27	54	-3.73	-	-	192	161	H
4	* 2.48354	35.77	RMS	29.5	-14.6	50.67	54	-3.33	-	-	192	161	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T963 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	37.91	PK	29.5	-14.6	52.81	-	-	74	-21.19	87	365	V
2	* 2.48353	37.99	PK	29.5	-14.6	52.89	-	-	74	-21.11	87	365	V
3	* 2.4835	25.92	RMS	29.5	-14.6	40.82	54	-13.18	-	-	87	365	V
4	* 2.48351	26.61	RMS	29.5	-14.6	41.51	54	-12.49	-	-	87	365	V

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

PK - Peak detector

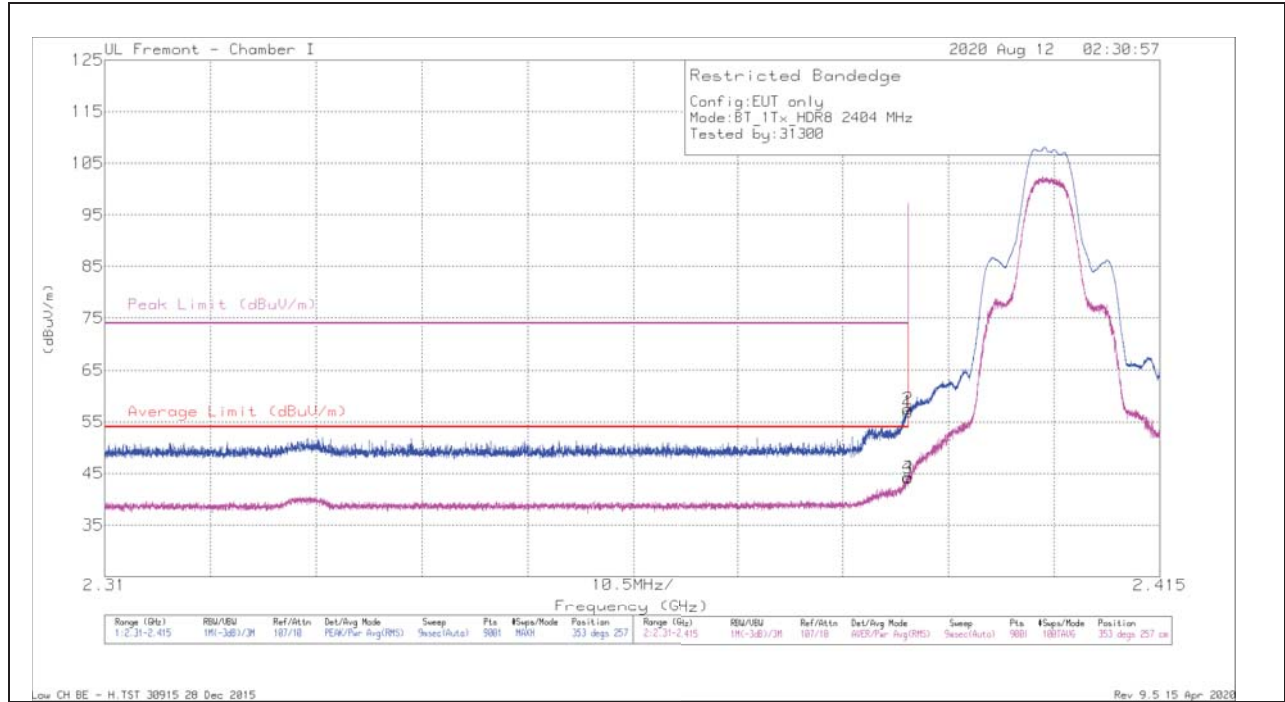
RMS - RMS detection

10.2.3. HIGH POWER HDR (HDR8)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



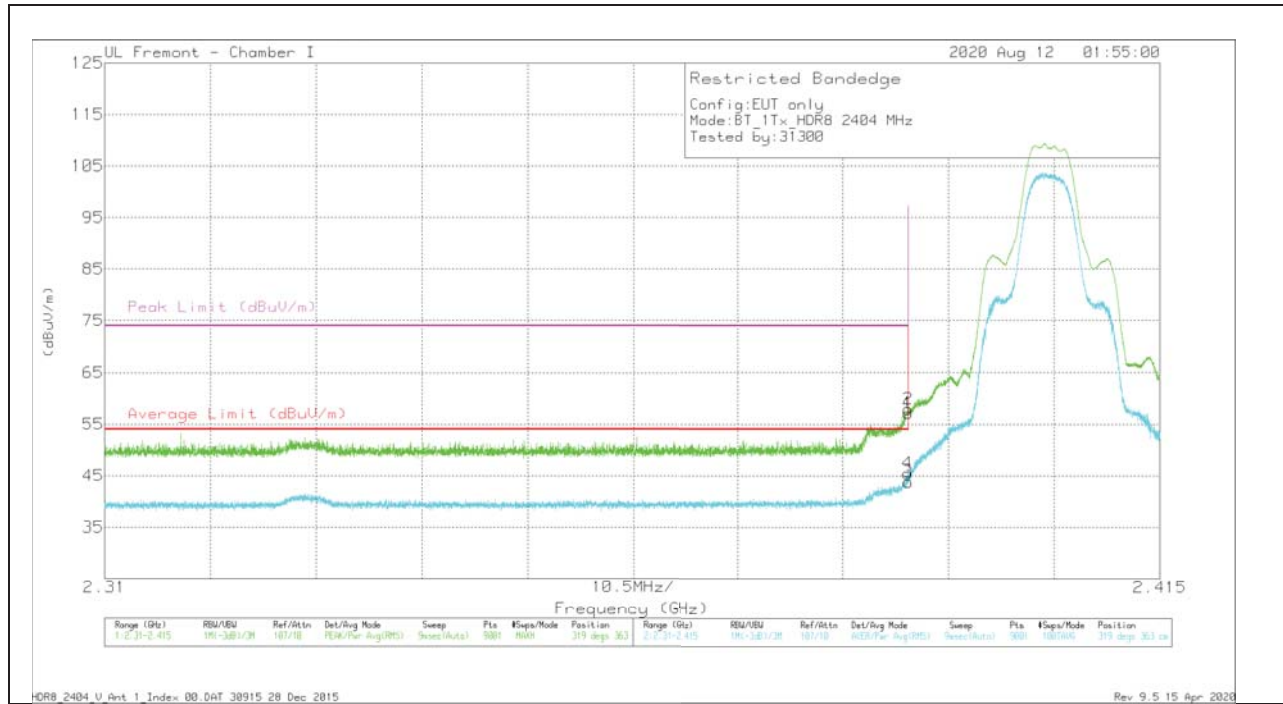
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	42.22	Pk	32	-17.3	56.92	-	-	74	-17.08	353	257	H
2	* 2.38995	42.81	Pk	32	-17.3	57.51	-	-	74	-16.49	353	257	H
3	* 2.38999	29.42	RMS	32	-17.3	44.12	54	-9.88	-	-	353	257	H
4	* 2.38994	29.64	RMS	32	-17.3	44.34	54	-9.66	-	-	353	257	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

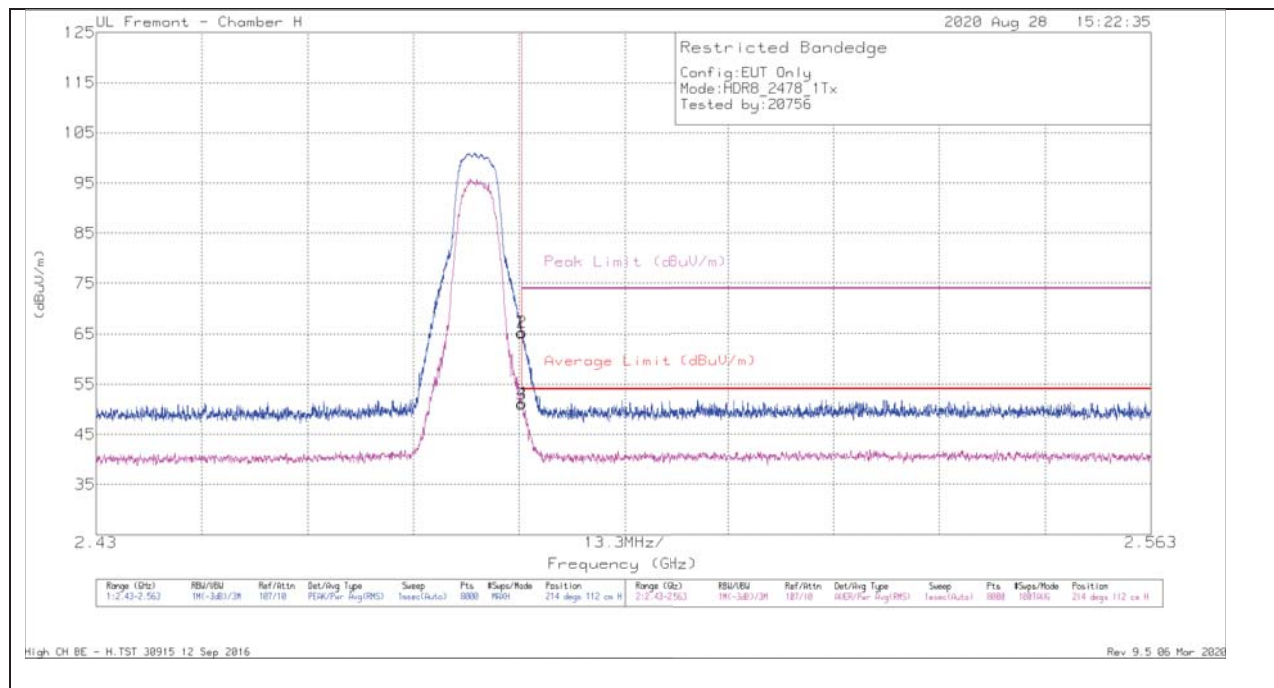


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	42.46	Pk	32	-17.3	57.16	-	-	74	-16.84	319	363	V
2	* 2.38997	43.24	Pk	32	-17.3	57.94	-	-	74	-16.06	319	363	V
3	* 2.38999	29.11	RMS	32	-17.3	43.81	54	-10.19	-	-	319	363	V
4	* 2.38991	30.79	RMS	32	-17.3	45.49	54	-8.51	-	-	319	363	V

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

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

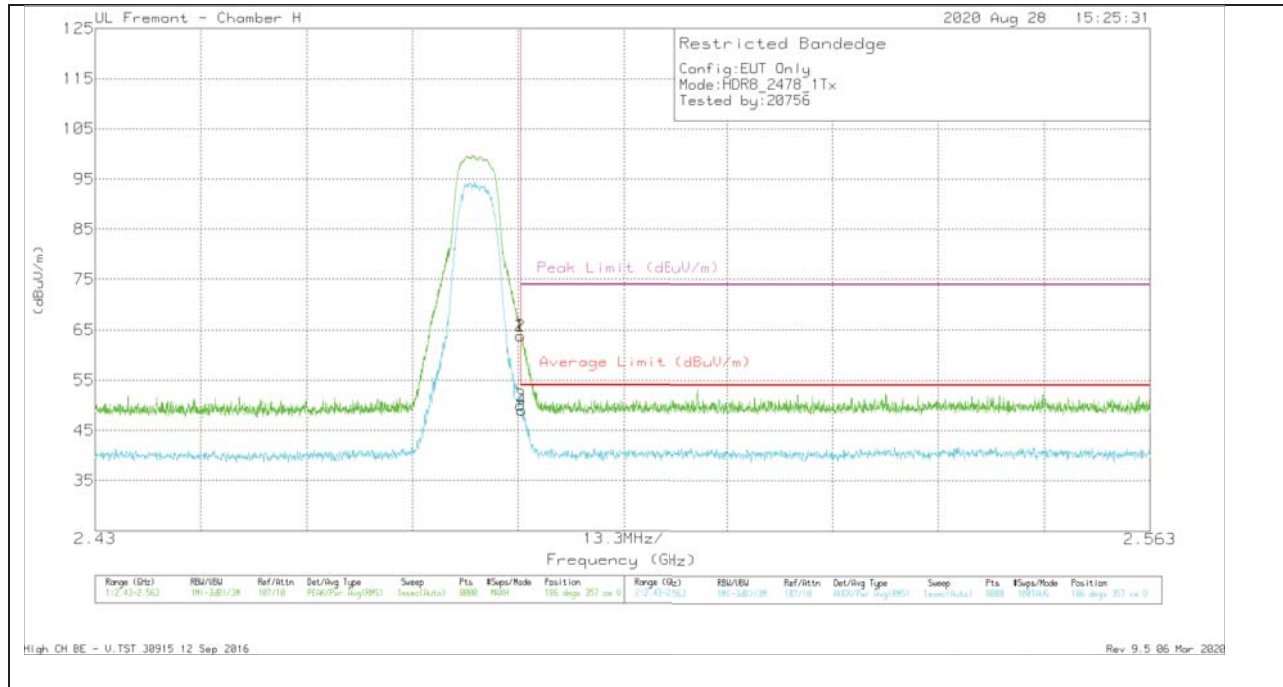
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	56.58	Pk	32.3	-23.7	65.18	-	-	74	-8.82	214	112	H
2	* 2.48359	56.73	Pk	32.3	-23.7	65.33	-	-	74	-8.67	214	112	H
3	* 2.48351	42.39	RMS	32.3	-23.7	50.99	54	-3.01	-	-	214	112	H
4	* 2.48354	42.66	RMS	32.3	-23.7	51.26	54	-2.74	-	-	214	112	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 T862 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	55.19	PK	32.3	-23.7	63.79	-	-	74	-10.21	186	357	V
2	* 2.48352	55.29	PK	32.3	-23.7	63.89	-	-	74	-10.11	186	357	V
3	* 2.48351	41.43	RMS	32.3	-23.7	50.03	54	-3.97	-	-	186	357	V
4	* 2.48366	40.42	RMS	32.3	-23.7	49.02	54	-4.98	-	-	186	357	V

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

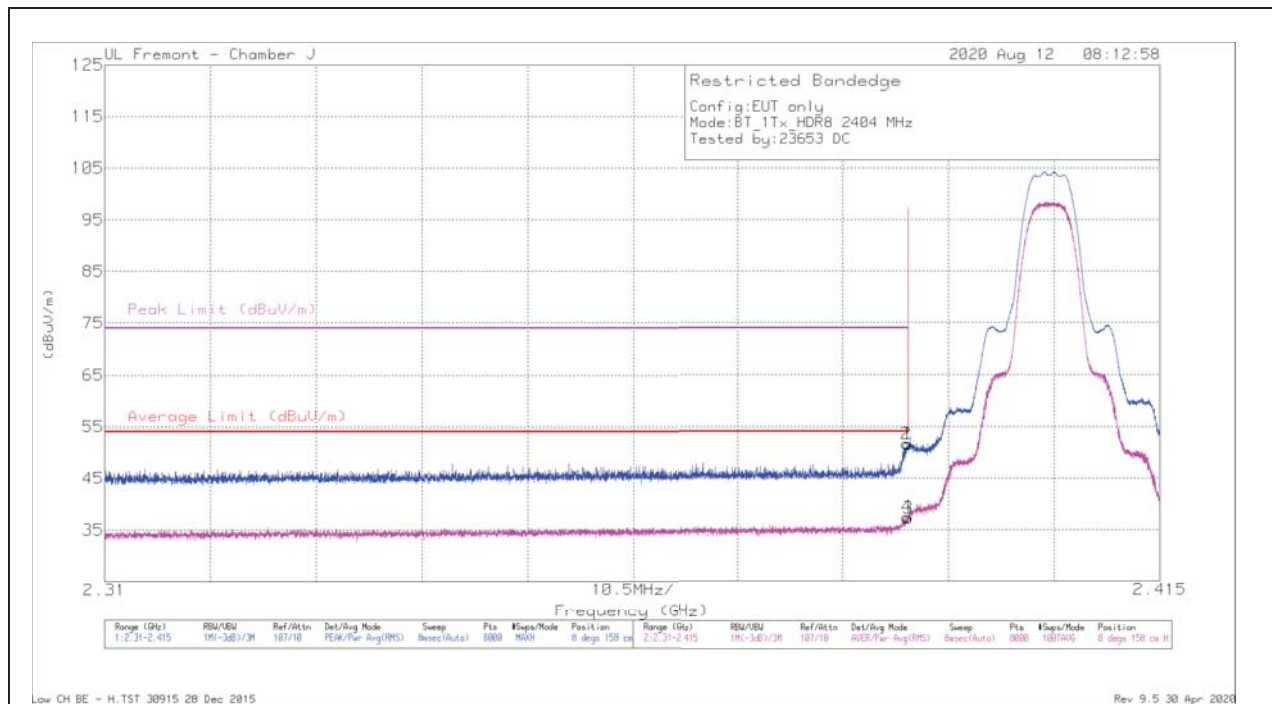
PK - Peak detector

RMS - RMS detection

ANT 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



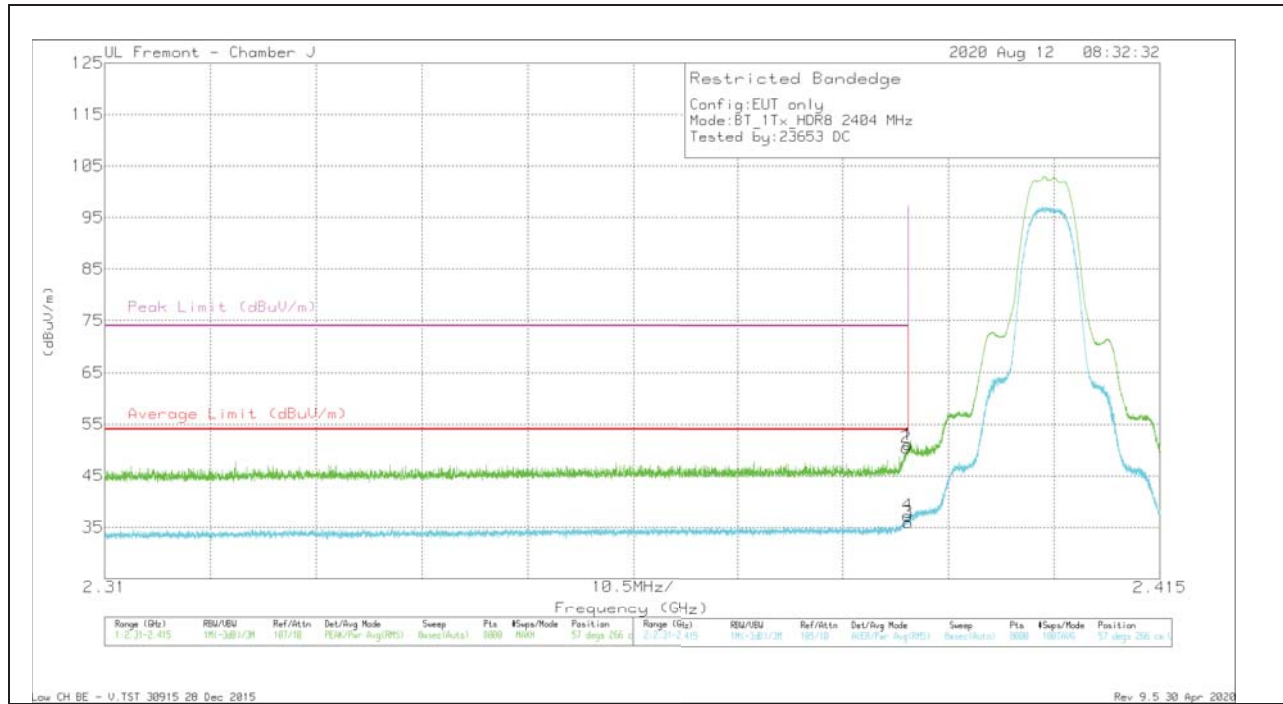
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.28	Pk	29	-14.7	51.58	-	-	74	-22.42	8	158	H
2	* 2.38977	37.35	Pk	29	-14.7	51.65	-	-	74	-22.35	8	158	H
3	* 2.39	22.91	RMS	29	-14.7	37.21	54	-16.79	-	-	8	158	H
4	* 2.38988	23.12	RMS	29	-14.7	37.42	54	-16.58	-	-	8	158	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

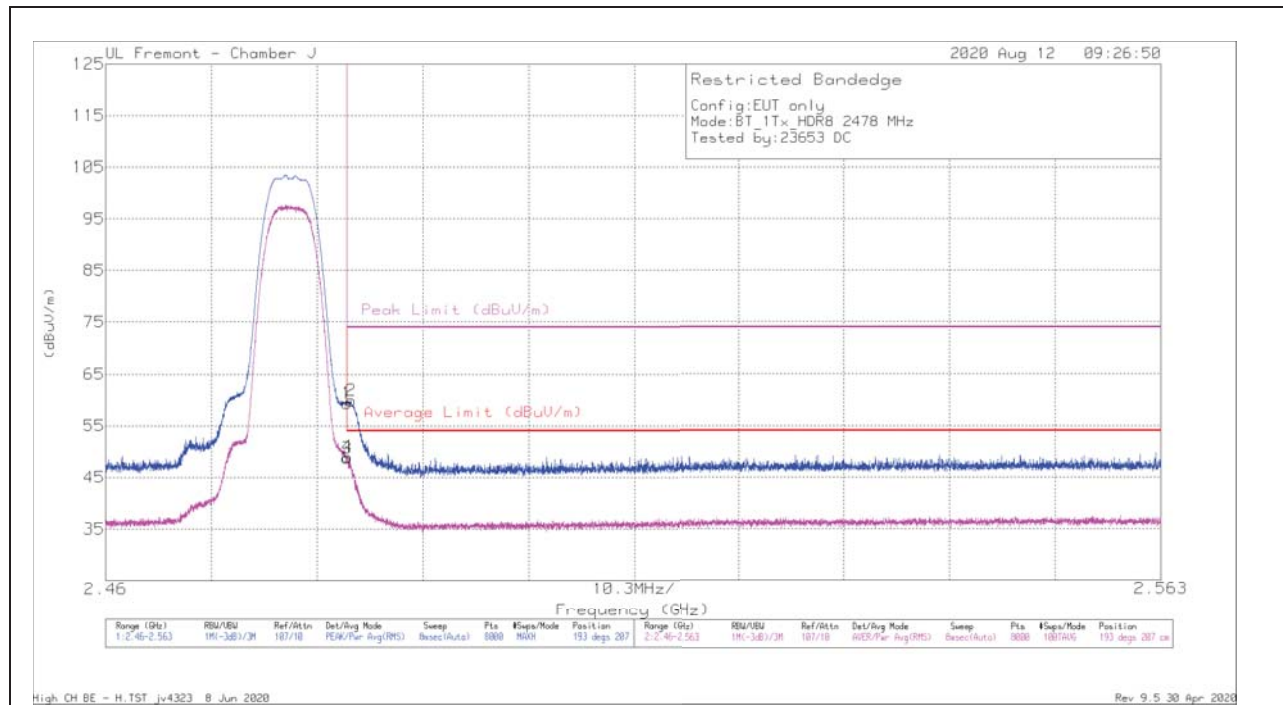


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.79	PK	29	-14.7	51.09	-	-	74	-22.91	57	266	V
2	* 2.38977	36.22	PK	29	-14.7	50.52	-	-	74	-23.48	57	266	V
3	* 2.39	21.68	RMS	29	-14.7	35.98	54	-18.02	-	-	57	266	V
4	* 2.3899	23.03	RMS	29	-14.7	37.33	54	-16.67	-	-	57	266	V

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

PK - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

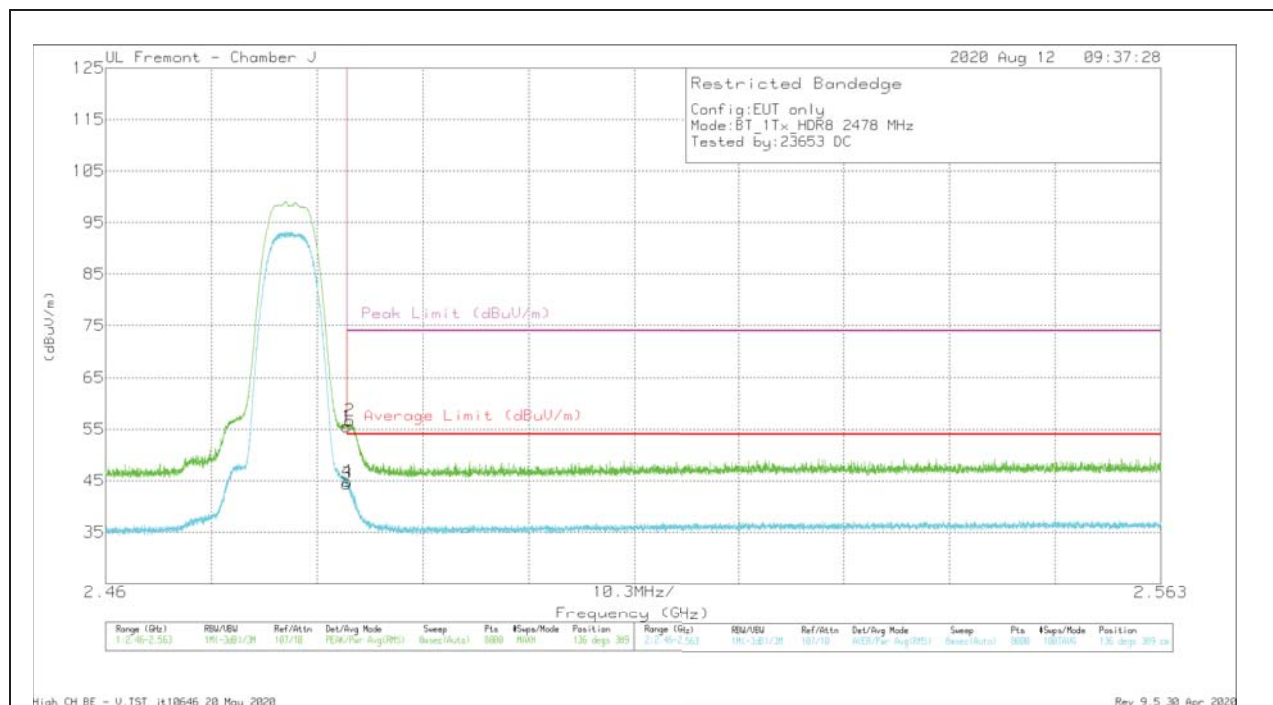
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	44.47	Pk	29.5	-14.6	59.37	-	-	74	-14.63	193	207	H
2	* 2.4839	45	Pk	29.5	-14.6	59.9	-	-	74	-14.1	193	207	H
3	* 2.4835	33.83	RMS	29.5	-14.6	48.73	54	-5.27	-	-	193	207	H
4	* 2.48355	34.1	RMS	29.5	-14.6	49	54	-5	-	-	193	207	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 T963 (dB/m)	Amp/Cbll/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	40.6	Pk	29.5	-14.6	55.5	-	-	74	-18.5	136	389	V
2	* 2.48377	41.8	Pk	29.5	-14.6	56.7	-	-	74	-17.3	136	389	V
3	* 2.4835	29.51	RMS	29.5	-14.6	44.41	54	-9.59	-	-	136	389	V
4	* 2.48353	29.97	RMS	29.5	-14.6	44.87	54	-9.13	-	-	136	389	V

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

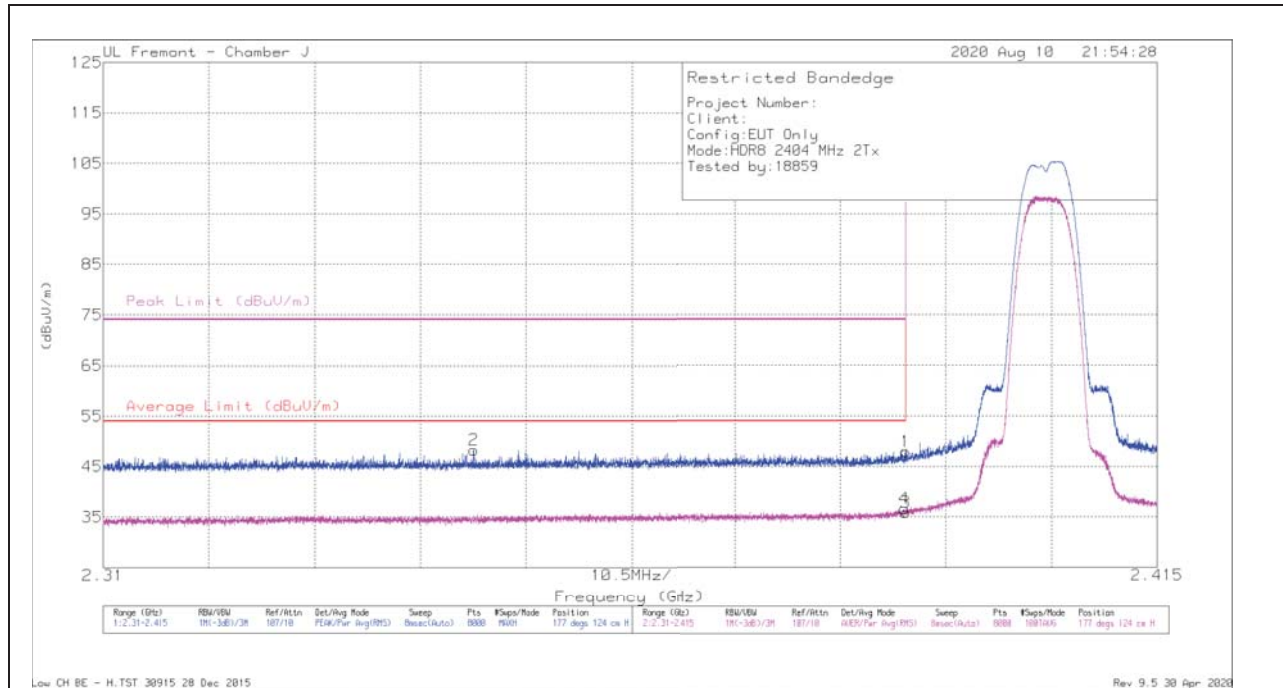
PK - Peak detector

RMS - RMS detection

10.2.4. HIGH POWER HDR TXBF (HDR8)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



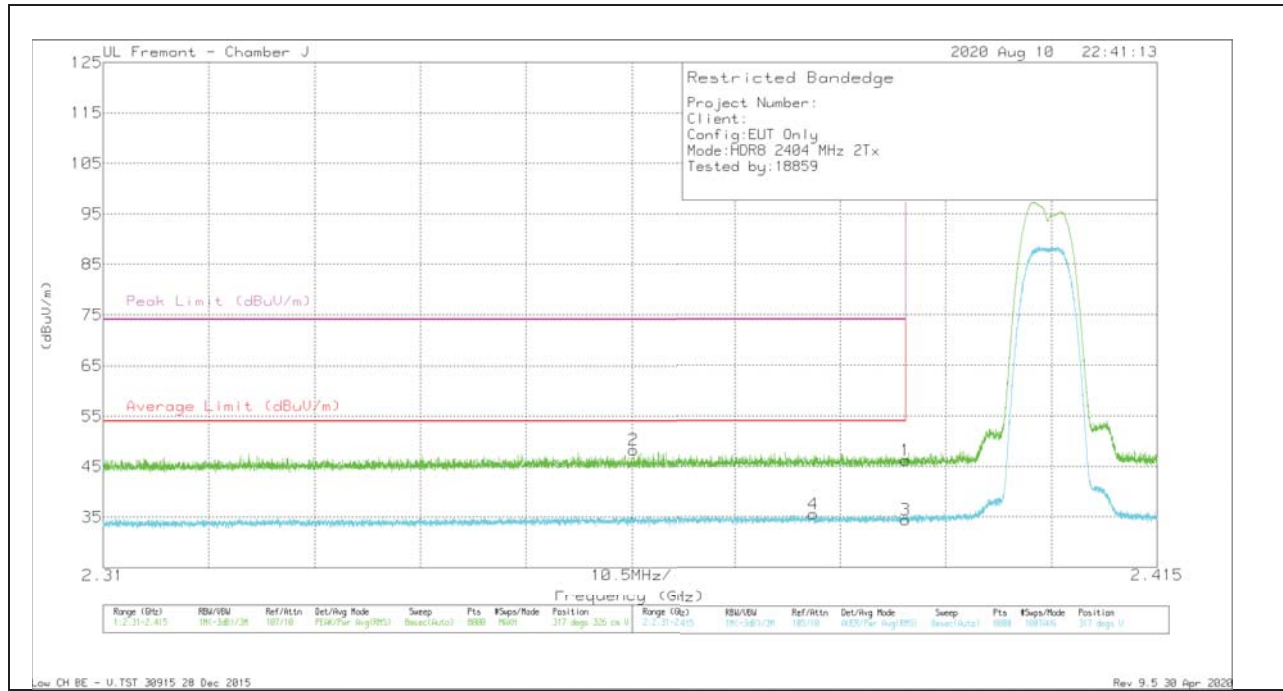
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	33.62	Pk	29	-14.7	47.92	-	-	74	-26.08	177	124	H
2	* 2.34678	34.34	Pk	28.9	-14.9	48.34	-	-	74	-25.66	177	124	H
3	* 2.39	21.61	RMS	29	-14.7	35.91	54	-18.09	-	-	177	124	H
4	* 2.38984	22.29	RMS	29	-14.7	36.59	54	-17.41	-	-	177	124	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

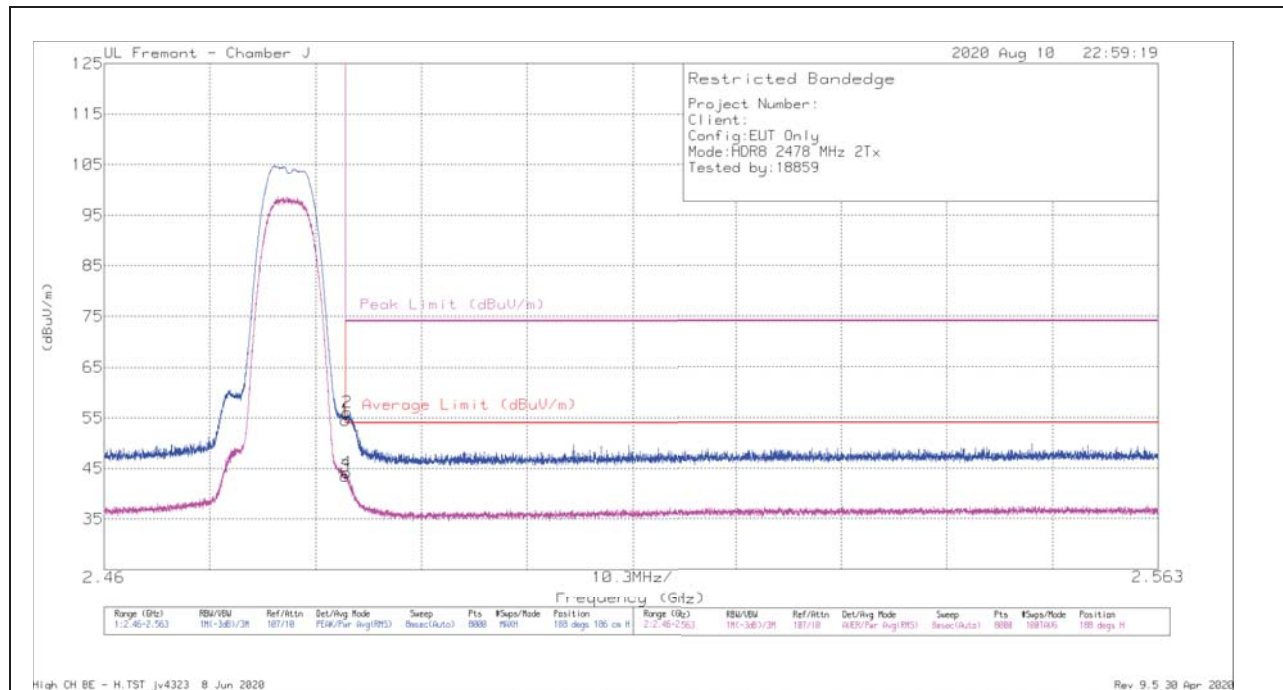


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	31.91	Pk	29	-14.7	46.21	-	-	74	-27.79	317	326	V
2	* 2.36265	34.07	Pk	29	-14.8	48.27	-	-	74	-25.73	317	326	V
3	* 2.39	20.09	RMS	29	-14.7	34.39	54	-19.61	-	-	317	326	V
4	* 2.38082	21.19	RMS	29	-14.7	35.49	54	-18.51	-	-	317	326	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

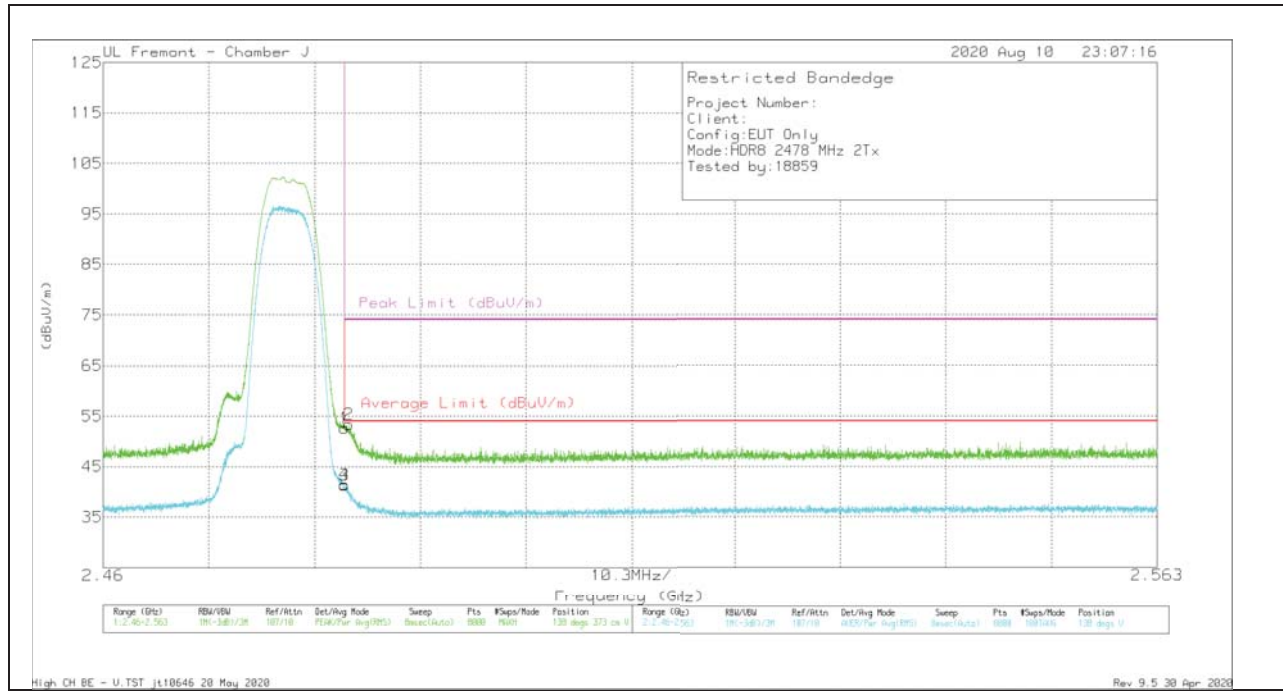
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	39.66	Pk	29.5	-14.6	54.56	-	-	74	-19.44	188	186	H
2	* 2.48368	41.22	Pk	29.5	-14.6	56.12	-	-	74	-17.88	188	186	H
3	* 2.4835	28.59	RMS	29.5	-14.6	43.49	54	-10.51	-	-	188	186	H
4	* 2.48364	29.27	RMS	29.5	-14.6	44.17	54	-9.83	-	-	188	186	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

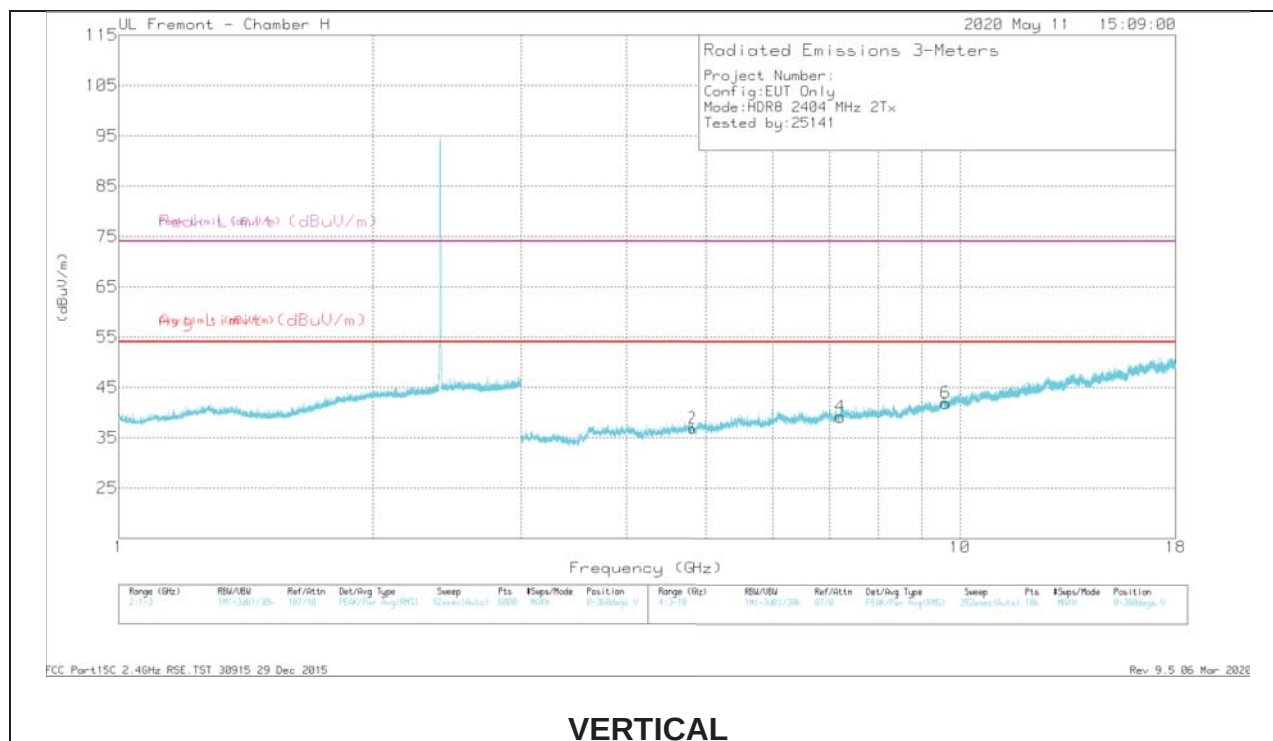
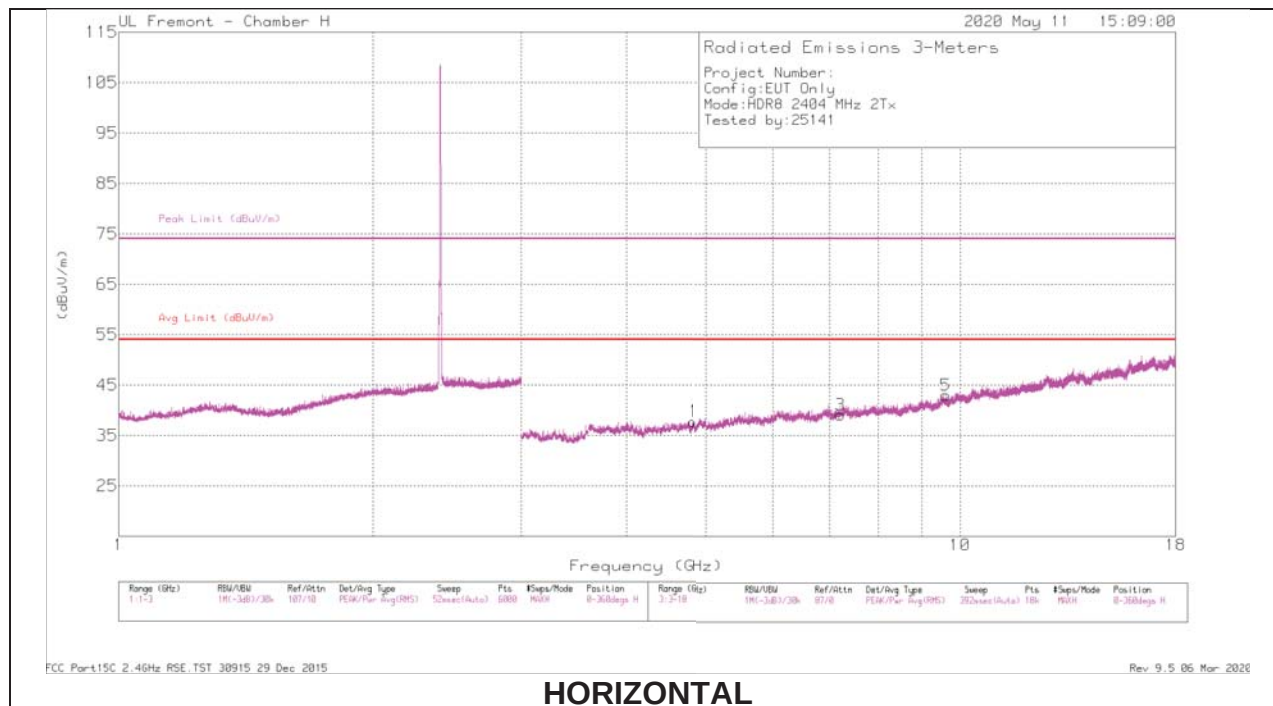


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/CbI/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	37.79	Pk	29.5	-14.6	52.69	-	-	74	-21.31	138	373	V
2	* 2.48393	38.55	Pk	29.5	-14.6	53.45	-	-	74	-20.55	138	373	V
3	* 2.4835	26.49	RMS	29.5	-14.6	41.39	54	-12.61	-	-	138	373	V
4	* 2.48351	26.55	RMS	29.5	-14.6	41.45	54	-12.55	-	-	138	373	V

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

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS WORST CASE**HIGH POWER, TXBF HDR8****LOW CHANNEL RESULTS**

RADIATED EMISSIONS

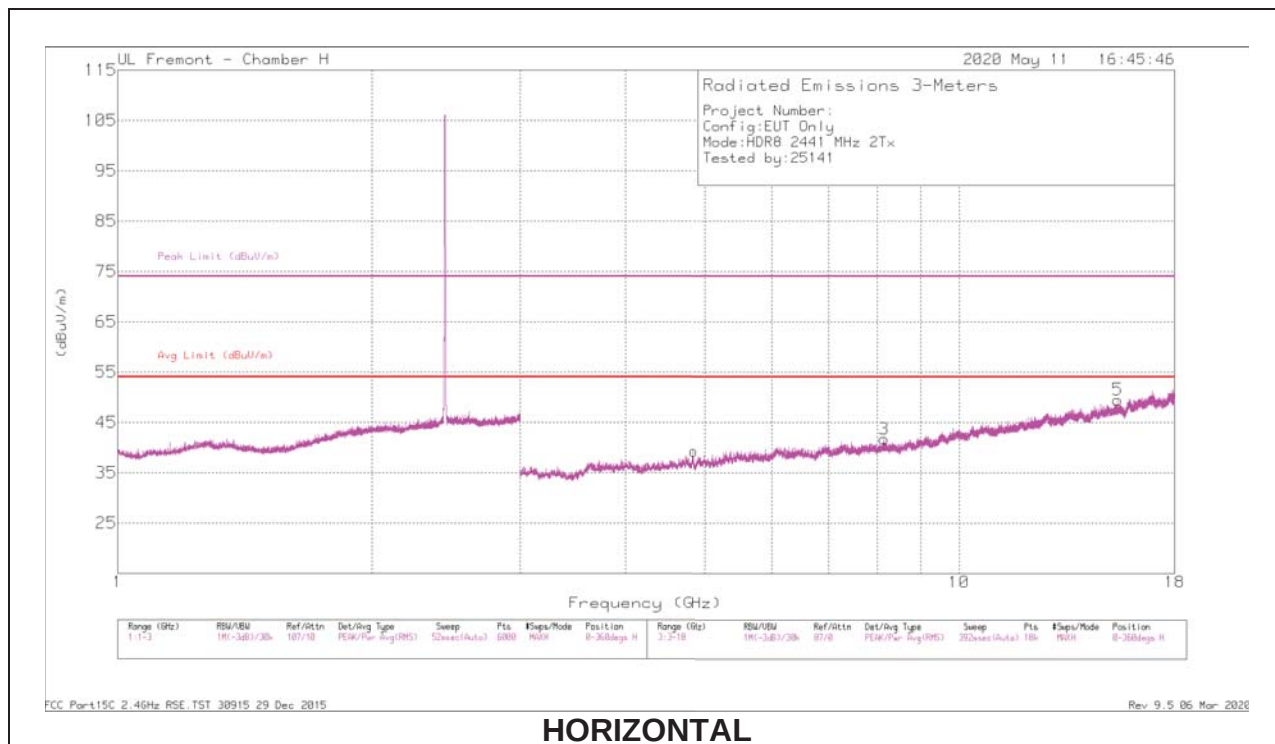
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1	* 4.80713	43.22	PK2	34.4	-31.5	46.12	-	-	74	-27.88	196	141	H
	* 4.80814	32.02	MAv1	34.4	-31.5	34.92	54	-19.08	-	-	196	141	H
2	* 4.80745	42.76	PK2	34.4	-31.5	45.66	-	-	74	-28.34	150	267	V
	* 4.80868	30.95	MAv1	34.4	-31.5	33.85	54	-20.15	-	-	150	267	V
3	7.21287	39.8	PK2	35.9	-28.5	47.2	-	-	-	-	106	395	H
4	7.21329	39.91	PK2	36	-28.5	47.41	-	-	-	-	145	101	V
5	9.61571	38.24	PK2	36.9	-24.9	50.24	-	-	-	-	98	154	H
6	9.61638	37.35	PK2	36.9	-24.9	49.35	-	-	-	-	243	103	V

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

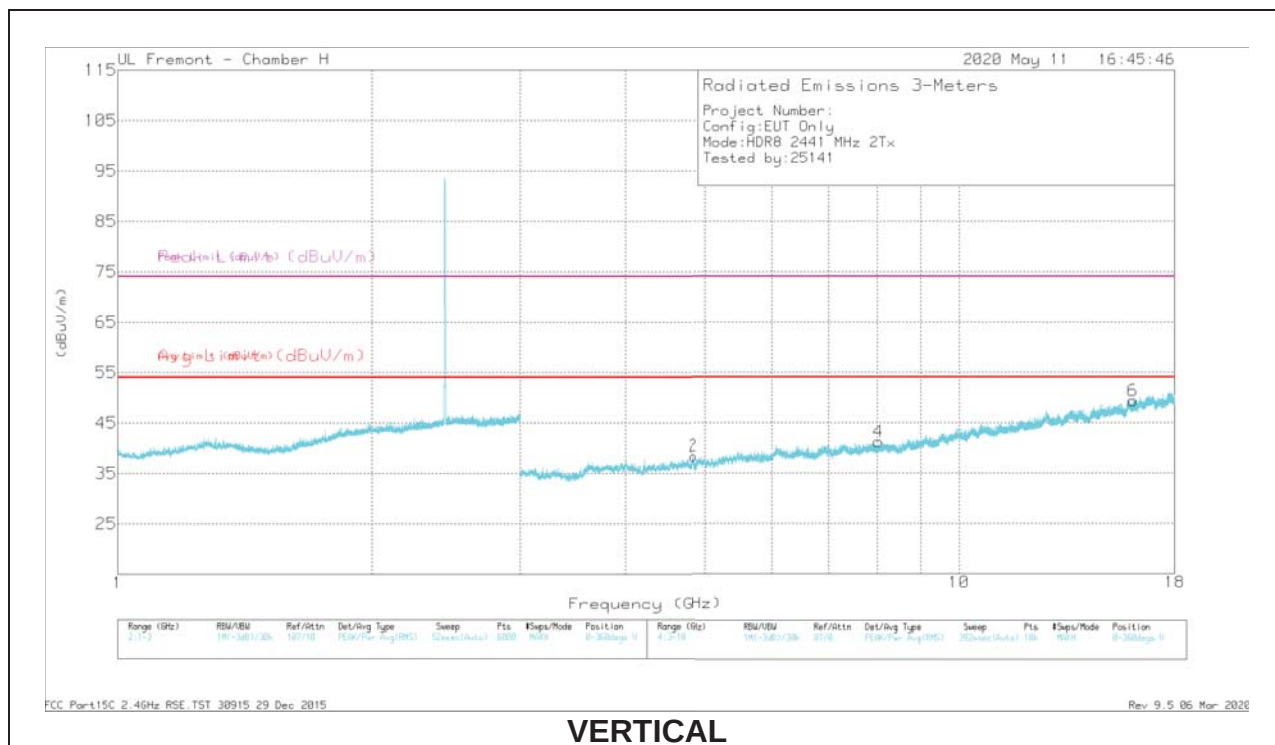
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

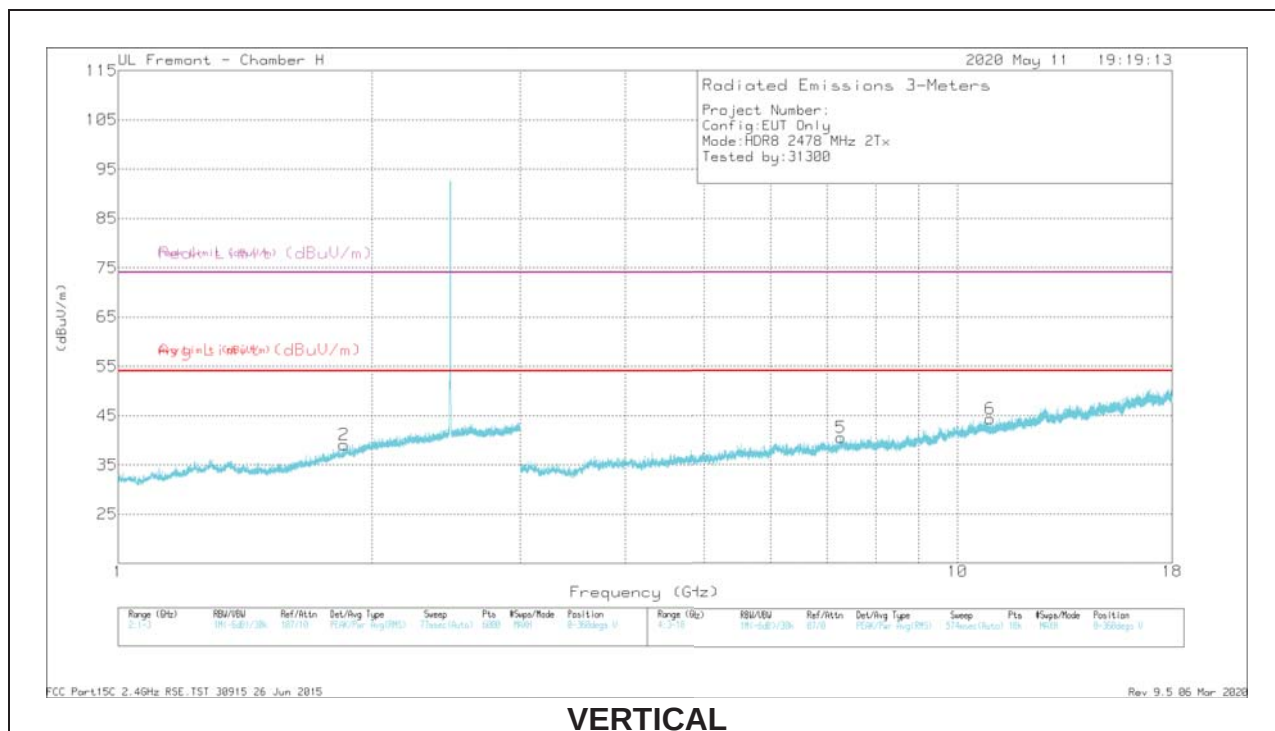
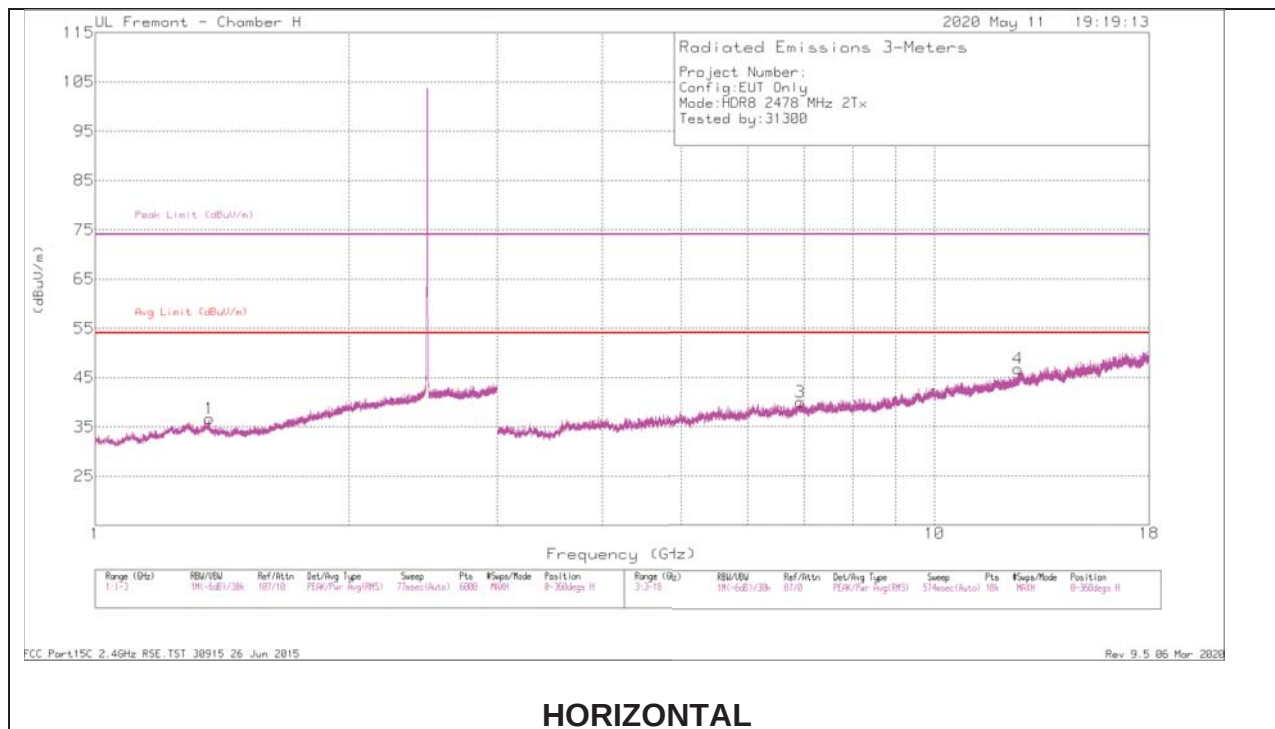
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.83663	42.83	PK2	34.3	-31.6	45.53	-	-	74	-28.47	307	259	H
	* 4.83389	31.21	MAv1	34.3	-31.7	33.81	54	-20.19	-	-	307	259	H
3	* 8.15326	38.7	PK2	36	-26.5	48.2	-	-	74	-25.8	82	214	H
	* 8.14996	26.66	MAv1	36	-26.6	36.06	54	-17.94	-	-	82	214	H
5	* 15.40762	37.8	PK2	41	-22.2	56.6	-	-	74	-17.4	104	256	H
	* 15.40588	25.05	MAv1	41	-22.1	43.95	54	-10.05	-	-	104	256	H
2	* 4.83061	42.4	PK2	34.3	-31.7	45	-	-	74	-29	178	197	V
	* 4.83335	31.21	MAv1	34.3	-31.7	33.81	54	-20.19	-	-	178	197	V
4	* 8.02773	38.52	PK2	36.1	-27.3	47.32	-	-	74	-26.68	154	355	V
	* 8.02775	26.98	MAv1	36.1	-27.3	35.78	54	-18.22	-	-	154	355	V
6	* 16.0593	36.92	PK2	41.6	-22.9	55.62	-	-	74	-18.38	211	275	V
	* 16.05664	25.37	MAv1	41.6	-22.9	44.07	54	-9.93	-	-	211	275	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



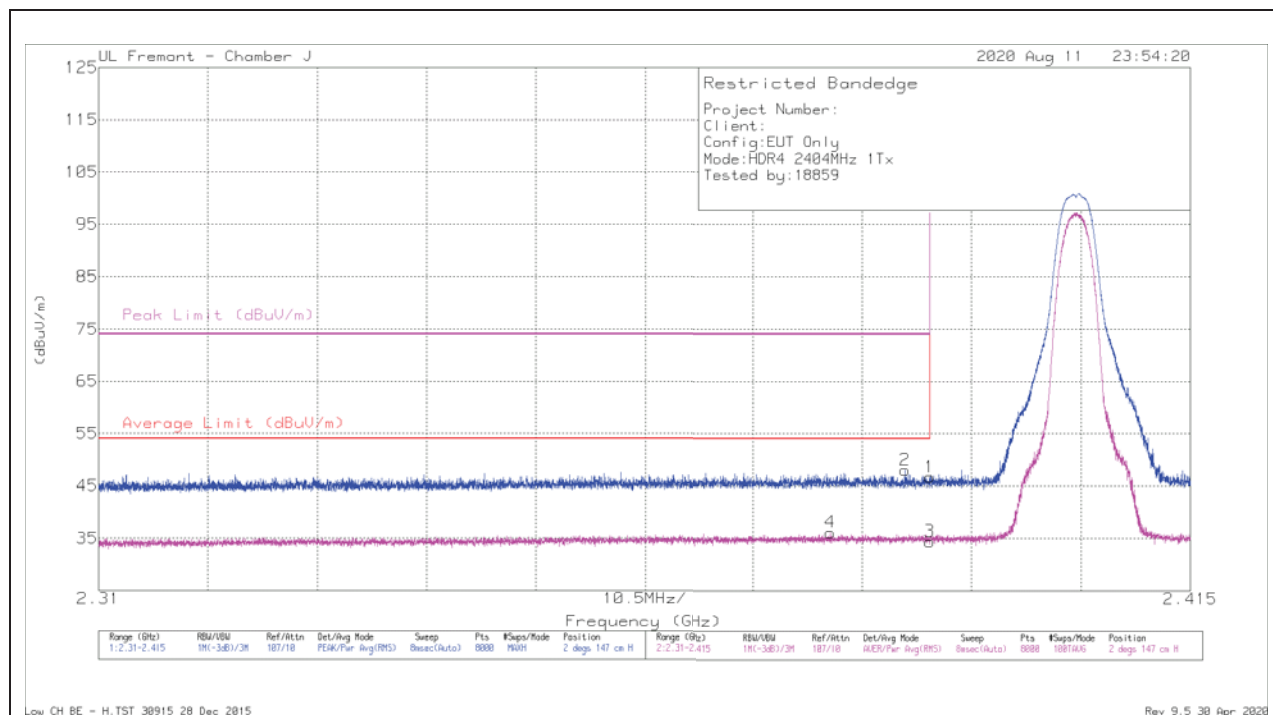
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.36376	35.39	PK2	29.1	-22.8	41.69	-	-	74	-32.31	360	200	H
	* 1.36418	24.12	MAv1	29.1	-22.8	30.42	54	-23.58	-	-	360	200	H
4	* 12.56456	36.1	PK2	39.6	-23.5	52.2	-	-	74	-21.8	62	101	H
	* 12.56609	23.9	MAv1	39.6	-23.5	40	54	-14	-	-	62	101	H
5	* 7.26217	37.89	PK2	36	-27.6	46.29	-	-	74	-27.71	205	101	V
	* 7.26173	26.12	MAv1	36	-27.6	34.52	54	-19.48	-	-	205	101	V
6	* 10.94155	36.08	PK2	37.6	-24.1	49.58	-	-	74	-24.42	221	200	V
	* 10.94348	24.23	MAv1	37.6	-24.2	37.63	54	-16.37	-	-	221	200	V
2	1.85265	35.96	PK2	30.8	-22.5	44.26	-	-	-	-	90	276	V
3	6.92657	37.17	PK2	35.7	-27.2	45.67	-	-	-	-	149	101	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2.5. LOW POWER HDR (HDR4)**ANT 4****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

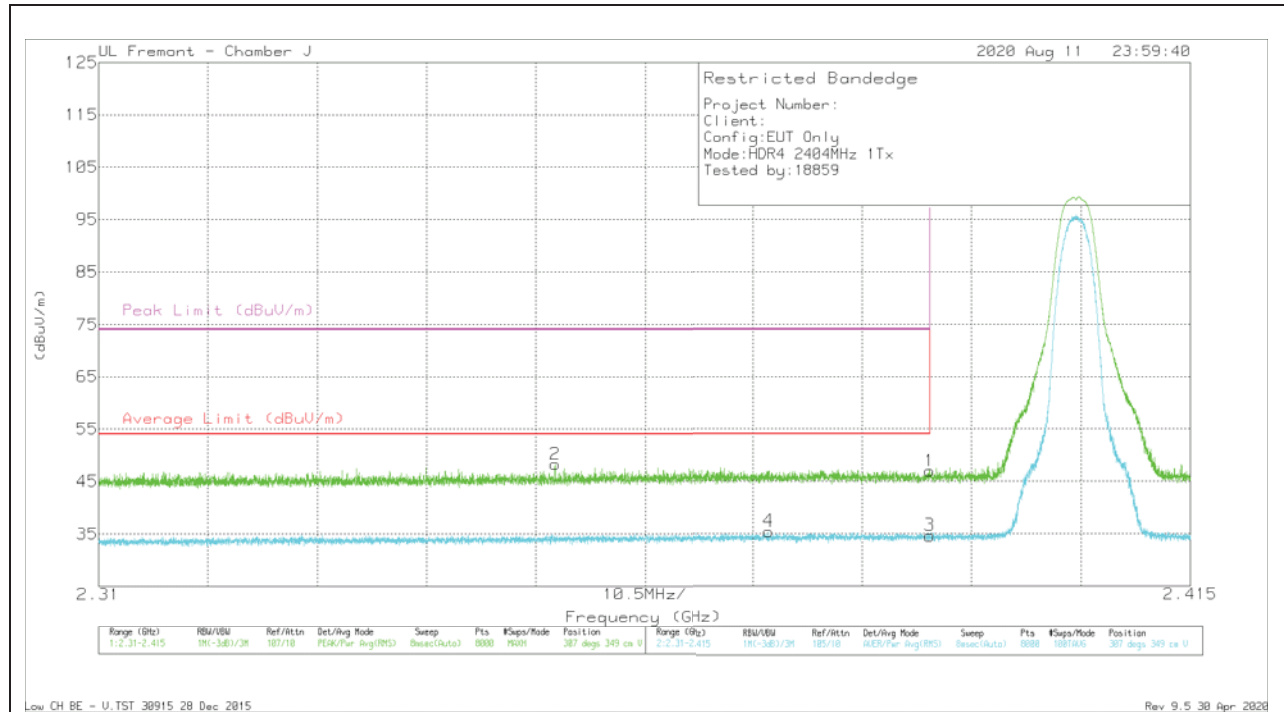
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/CbIf/Tr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	32.42	Pk	29	-14.7	46.72	-	-	74	-27.28	2	147	H
2	* 2.38759	33.81	Pk	29	-14.7	48.11	-	-	74	-25.89	2	147	H
3	* 2.39	20.06	RMS	29	-14.7	34.36	54	-19.64	-	-	2	147	H
4	* 2.38044	21.86	RMS	29	-14.7	36.16	54	-17.84	-	-	2	147	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

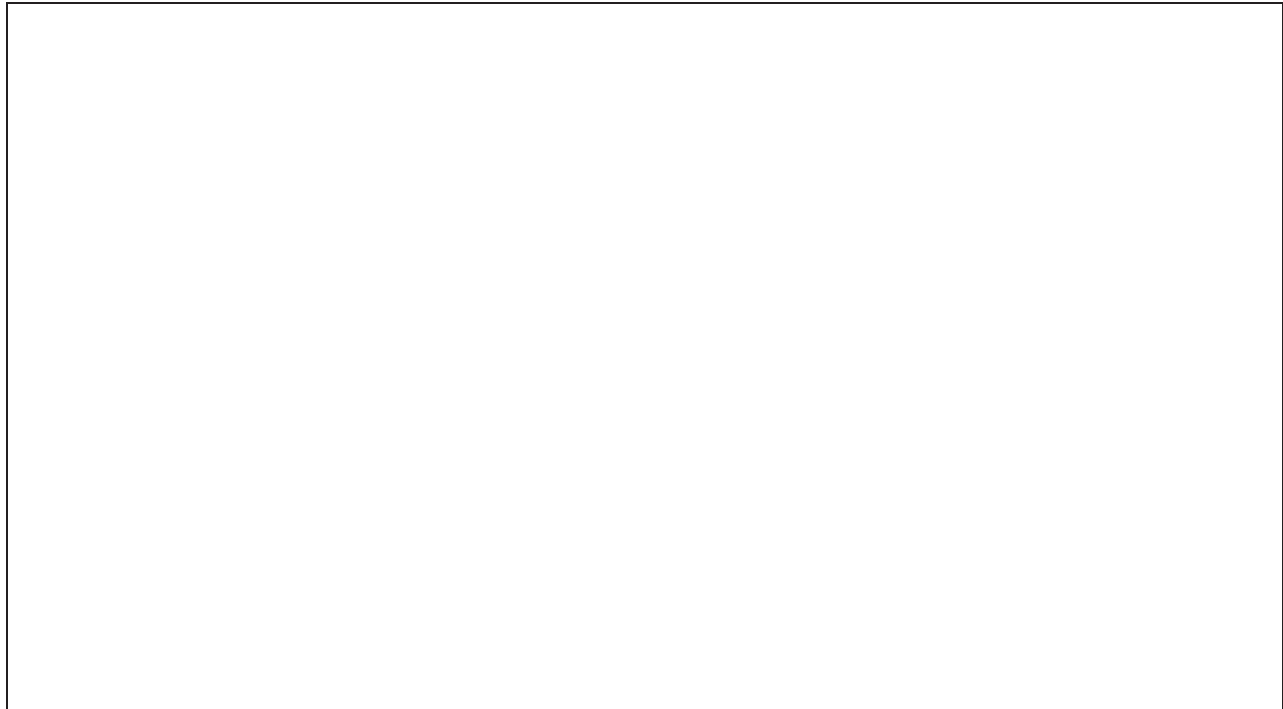


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	32.69	Pk	29	-14.7	46.99	-	-	74	-27.01	307	349	V
2	* 2.35383	34.25	Pk	28.9	-14.9	48.25	-	-	74	-25.75	307	349	V
3	* 2.39	20.29	RMS	29	-14.7	34.59	54	-19.41	-	-	307	349	V
4	* 2.37451	21.25	RMS	29	-14.8	35.45	54	-18.55	-	-	307	349	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

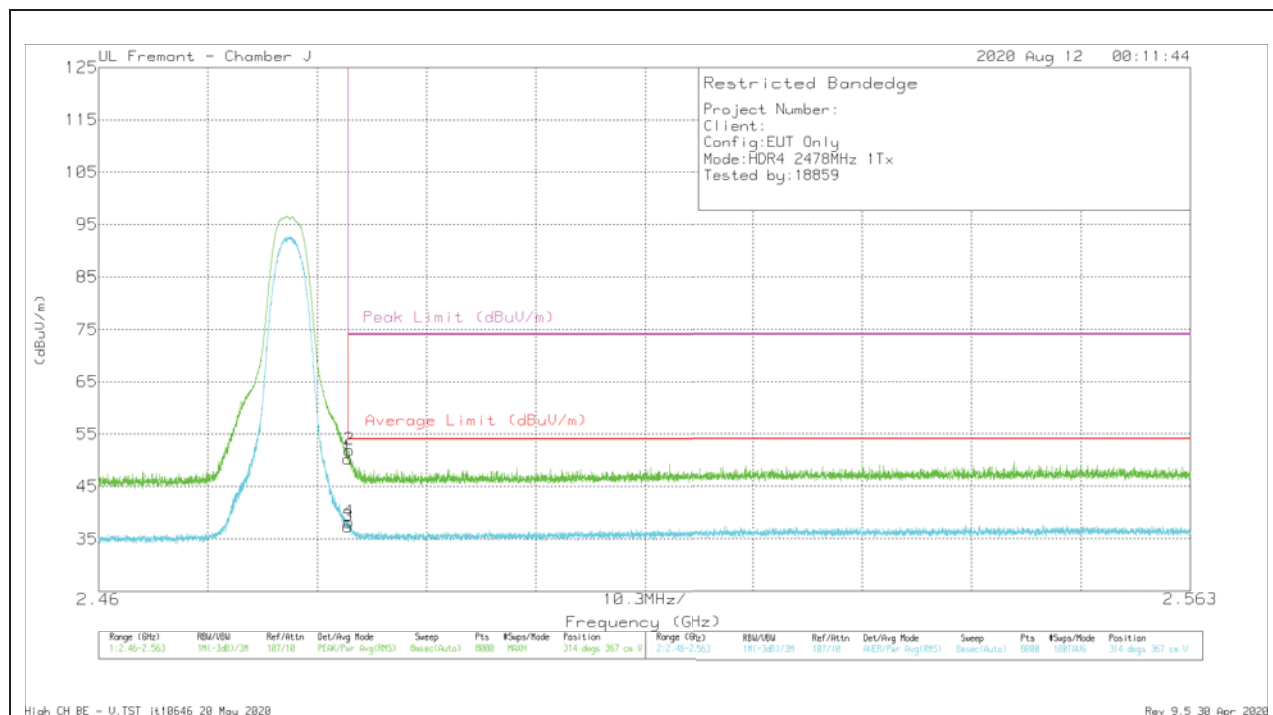
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	36.31	Pk	29.5	-14.6	51.21	-	-	74	-22.79	353	163	H
2	* 2.48371	36.34	Pk	29.5	-14.6	51.24	-	-	74	-22.76	353	163	H
3	* 2.4835	23.14	RMS	29.5	-14.6	38.04	54	-15.96	-	-	353	163	H
4	* 2.48367	23.34	RMS	29.5	-14.6	38.24	54	-15.76	-	-	353	163	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

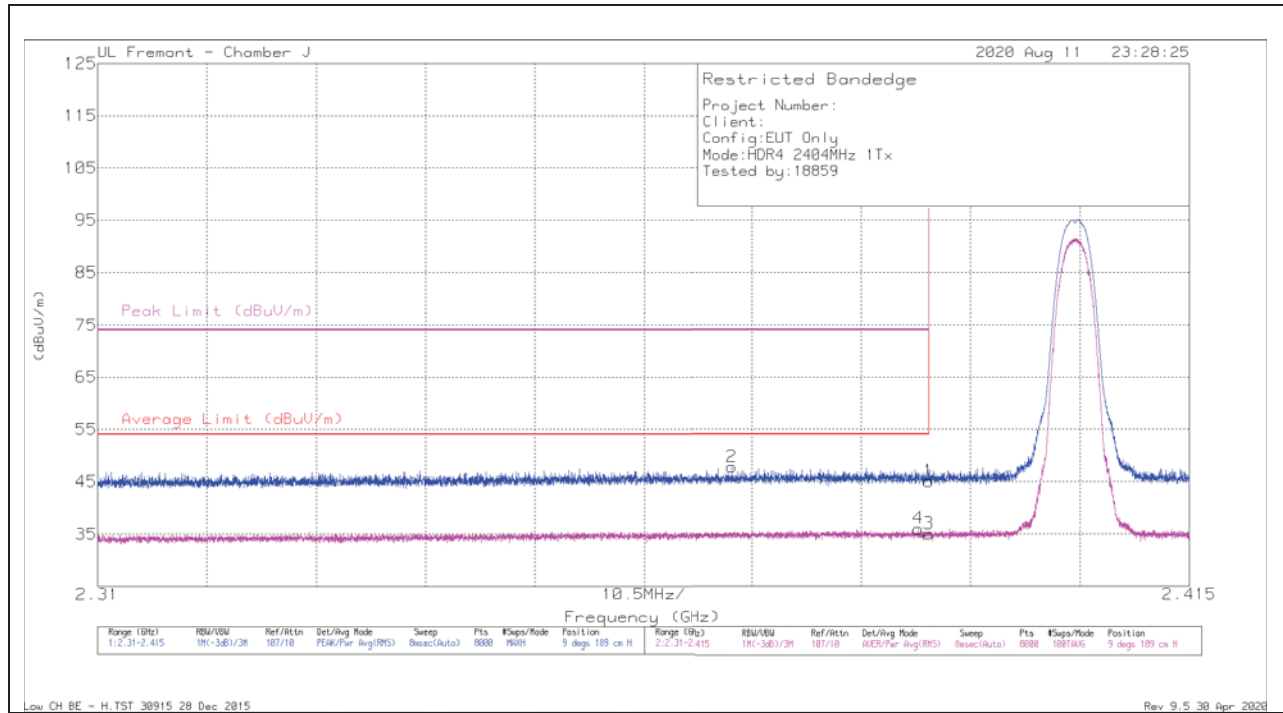


Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	35.45	Pk	29.5	-14.6	50.35	-	-	74	-23.65	314	367	V
2	* 2.48359	37.07	Pk	29.5	-14.6	51.97	-	-	74	-22.03	314	367	V
3	* 2.4835	22.43	RMS	29.5	-14.6	37.33	54	-16.67	-	-	314	367	V
4	* 2.48354	23.29	RMS	29.5	-14.6	38.19	54	-15.81	-	-	314	367	V

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

Pk - Peak detector

RMS - RMS detection

ANT 3**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

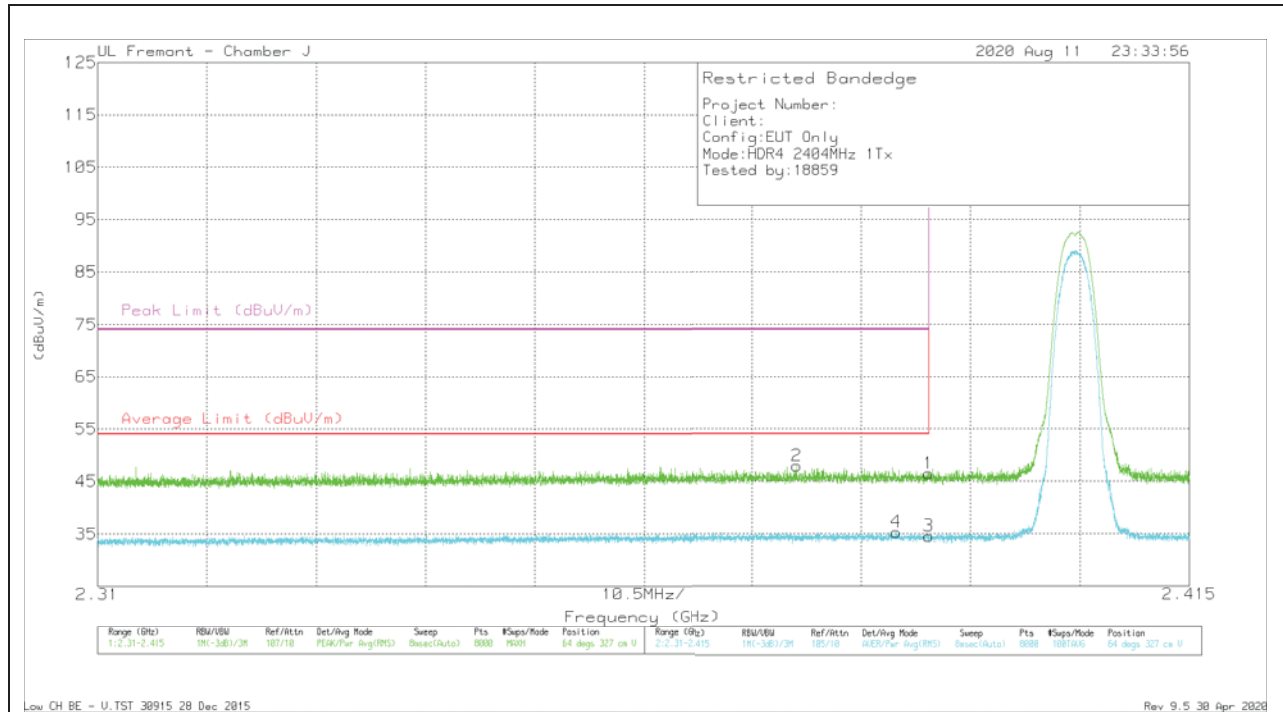
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	30.72	Pk	29	-14.7	45.02	-	-	74	-28.98	9	189	H
2	* 2.37108	33.59	Pk	29	-14.8	47.79	-	-	74	-26.21	9	189	H
3	* 2.39	20.7	RMS	29	-14.7	35	54	-19	-	-	9	189	H
4	* 2.38899	21.76	RMS	29	-14.7	36.06	54	-17.94	-	-	9	189	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

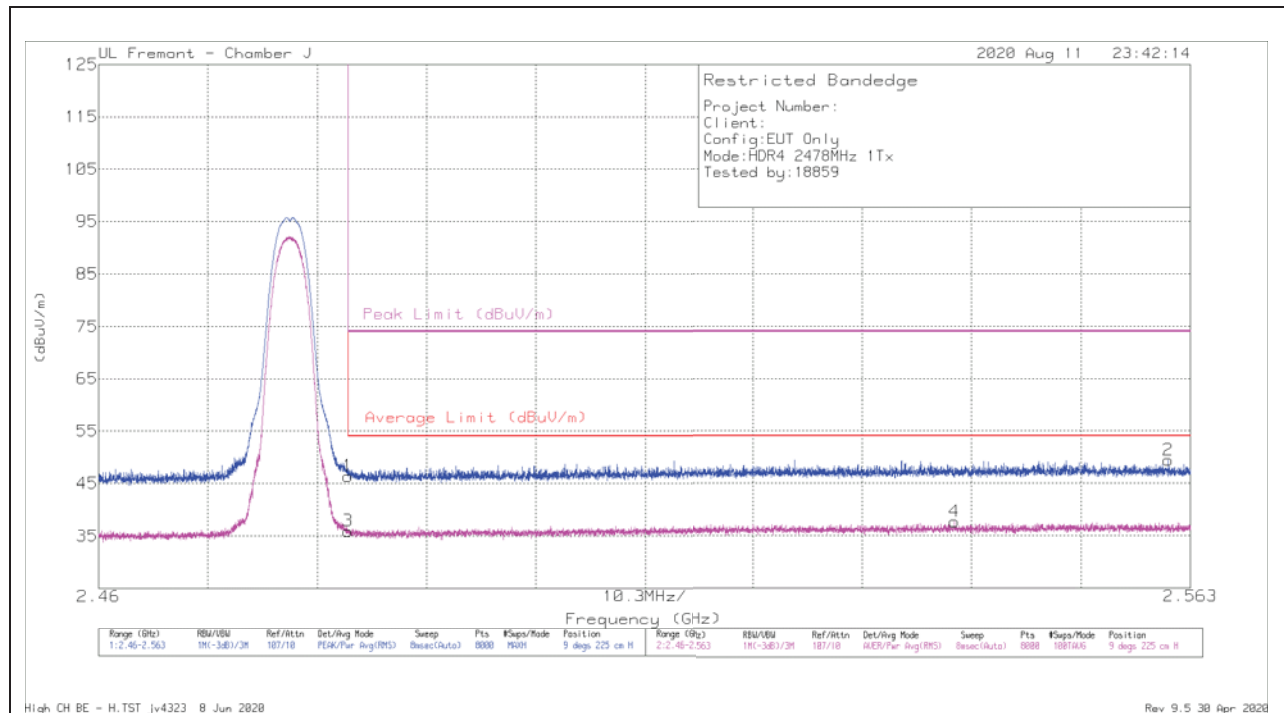


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	32.19	Pk	29	-14.7	46.49	-	-	74	-27.51	64	327	V
2	* 2.37729	33.67	Pk	29	-14.7	47.97	-	-	74	-26.03	64	327	V
3	* 2.39	20.24	RMS	29	-14.7	34.54	54	-19.46	-	-	64	327	V
4	* 2.38688	21.01	RMS	29	-14.7	35.31	54	-18.69	-	-	64	327	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

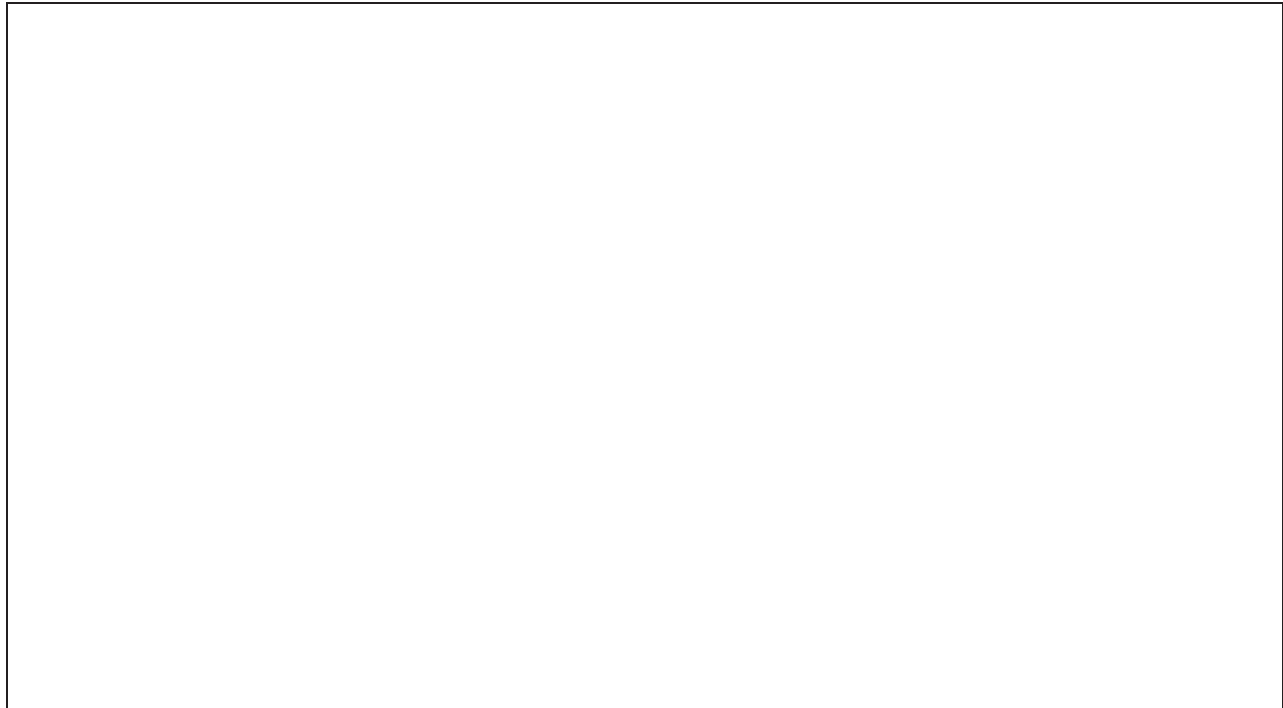
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dBm)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	31.48	Pk	29.5	-14.6	46.38	-	-	74	-27.62	9	225	H
2	2.56093	34.06	Pk	29.8	-14.4	49.46	-	-	74	-24.54	9	225	H
3	* 2.4835	20.98	RMS	29.5	-14.6	35.88	54	-18.12	-	-	9	225	H
4	2.54079	22.37	RMS	29.8	-14.5	37.67	54	-16.33	-	-	9	225	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 T963 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	31.73	Pk	29.5	-14.6	46.63	-	-	74	-27.37	299	388	V
2	2.54559	34.27	Pk	29.8	-14.5	49.57	-	-	74	-24.43	299	388	V
3	* 2.4835	21.07	RMS	29.5	-14.6	35.97	54	-18.03	-	-	299	388	V
4	2.54451	22.25	RMS	29.8	-14.5	37.55	54	-16.45	-	-	299	388	V

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

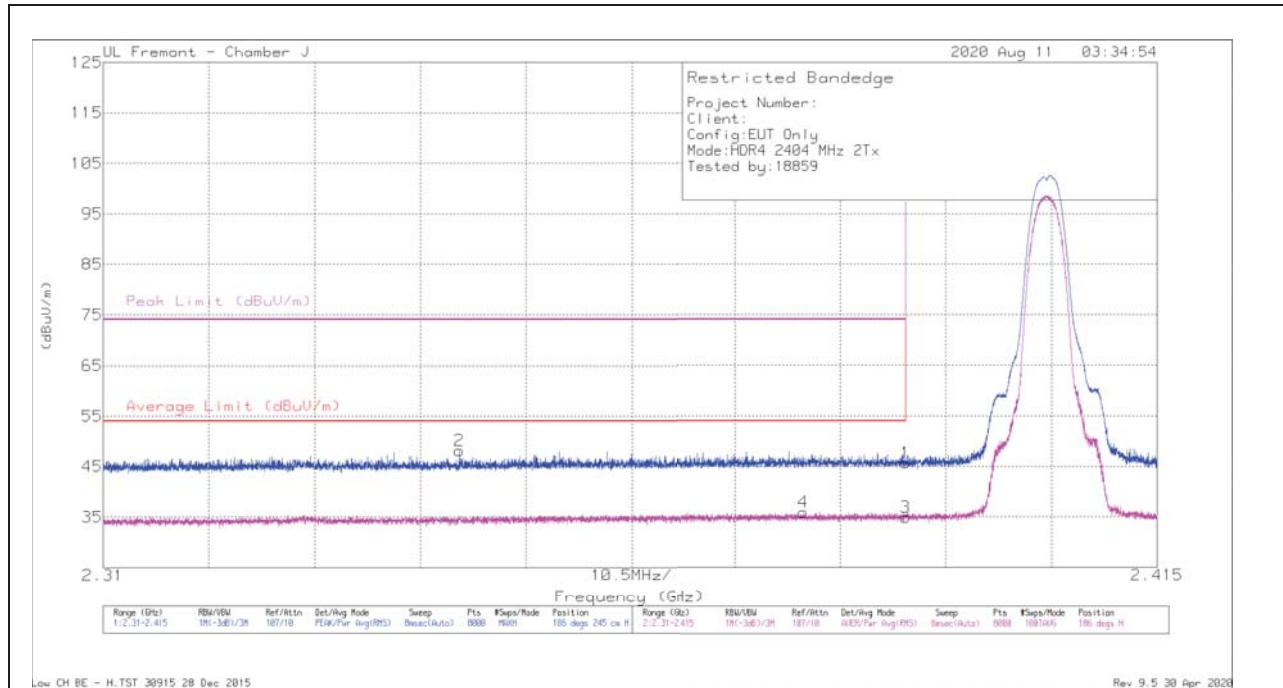
Pk - Peak detector

RMS - RMS detection

10.2.6. LOW POWER HDR TXBF (HDR4)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



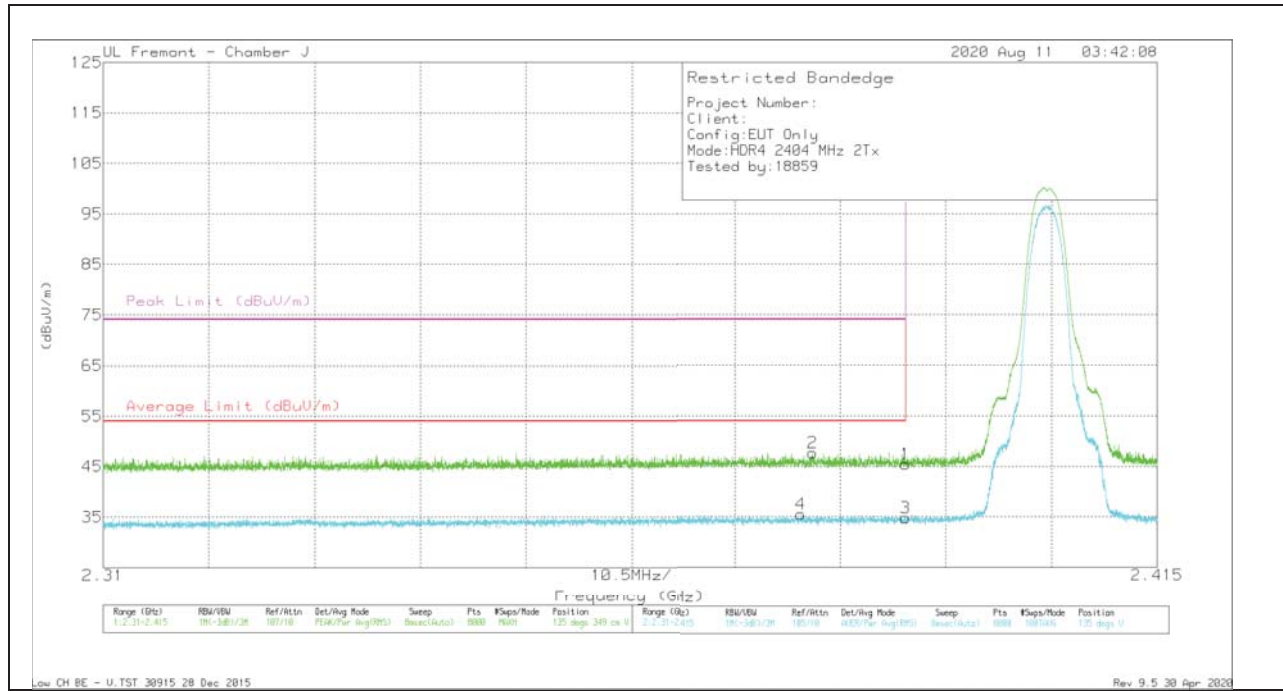
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	31.45	Pk	29	-14.7	45.75	-	-	74	-28.25	186	245	H
2	* 2.34538	34.17	Pk	28.9	-14.9	48.17	-	-	74	-25.83	186	245	H
3	* 2.39	20.62	RMS	29	-14.7	34.92	54	-19.08	-	-	186	245	H
4	* 2.3798	21.61	RMS	29	-14.7	35.91	54	-18.09	-	-	186	245	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

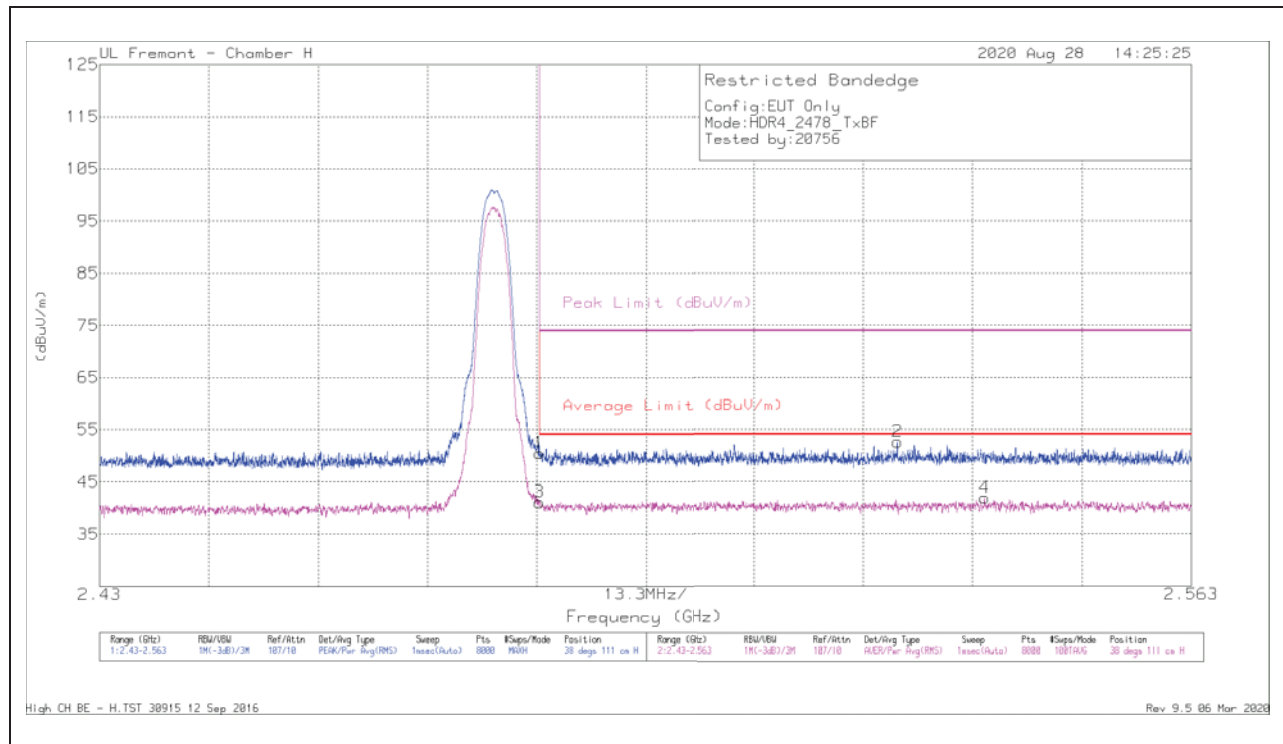


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	31.1	Pk	29	-14.7	45.4	-	-	74	-28.6	135	349	V
2	* 2.38072	33.44	Pk	29	-14.7	47.74	-	-	74	-26.26	135	349	V
3	* 2.39	20.51	RMS	29	-14.7	34.81	54	-19.19	-	-	135	349	V
4	* 2.37955	21.16	RMS	29	-14.7	35.46	54	-18.54	-	-	135	349	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

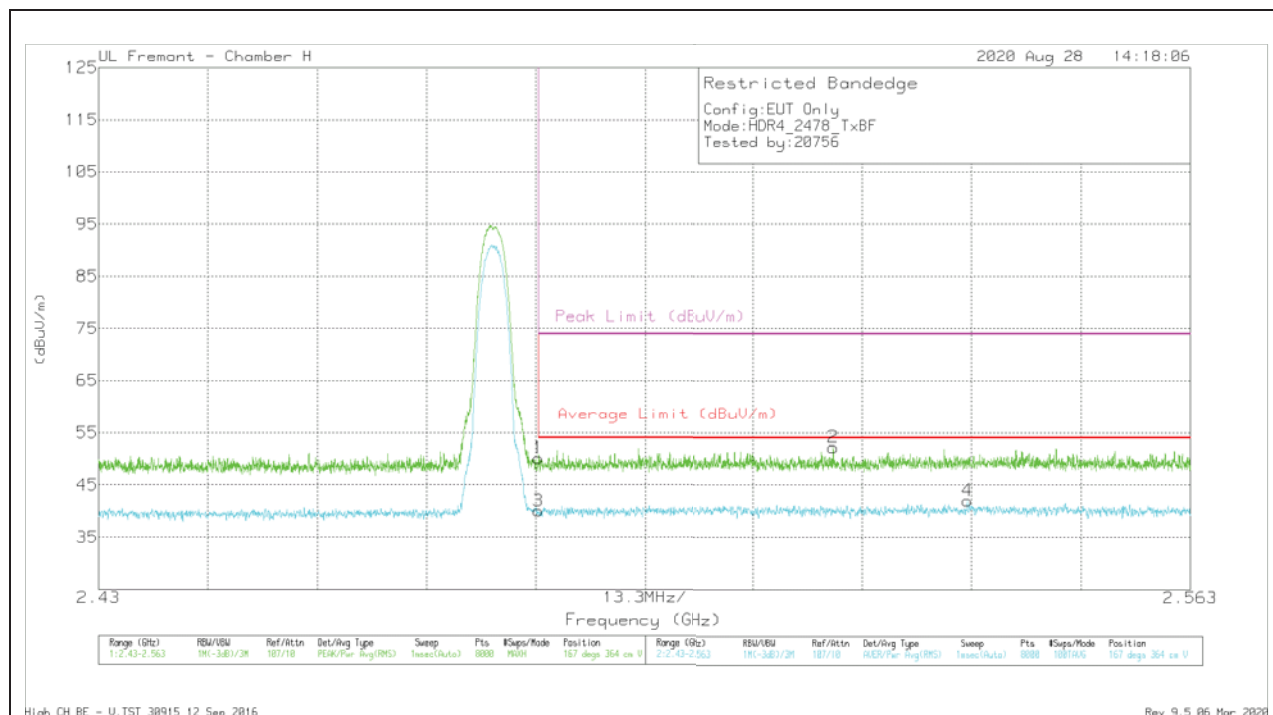
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Ampl/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.96	Pk	32.3	-23.7	50.56	-	-	74	-23.44	38	111	H
3	* 2.48351	32.5	RMS	32.3	-23.7	41.1	54	-12.9	-	-	38	111	H
2	2.52725	43.69	Pk	32.4	-23.5	52.59	-	-	74	-21.41	38	111	H
4	2.53784	32.95	RMS	32.4	-23.4	41.95	54	-12.05	-	-	38	111	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 T862 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.48	Pk	32.3	-23.7	50.08	-	-	74	-23.92	167	364	V
3	* 2.48351	31.39	RMS	32.3	-23.7	39.99	54	-14.01	-	-	167	364	V
2	2.51957	43.5	Pk	32.3	-23.5	52.3	-	-	74	-21.7	167	364	V
4	2.53588	33.05	RMS	32.4	-23.4	42.05	54	-11.95	-	-	167	364	V

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

Pk - Peak detector

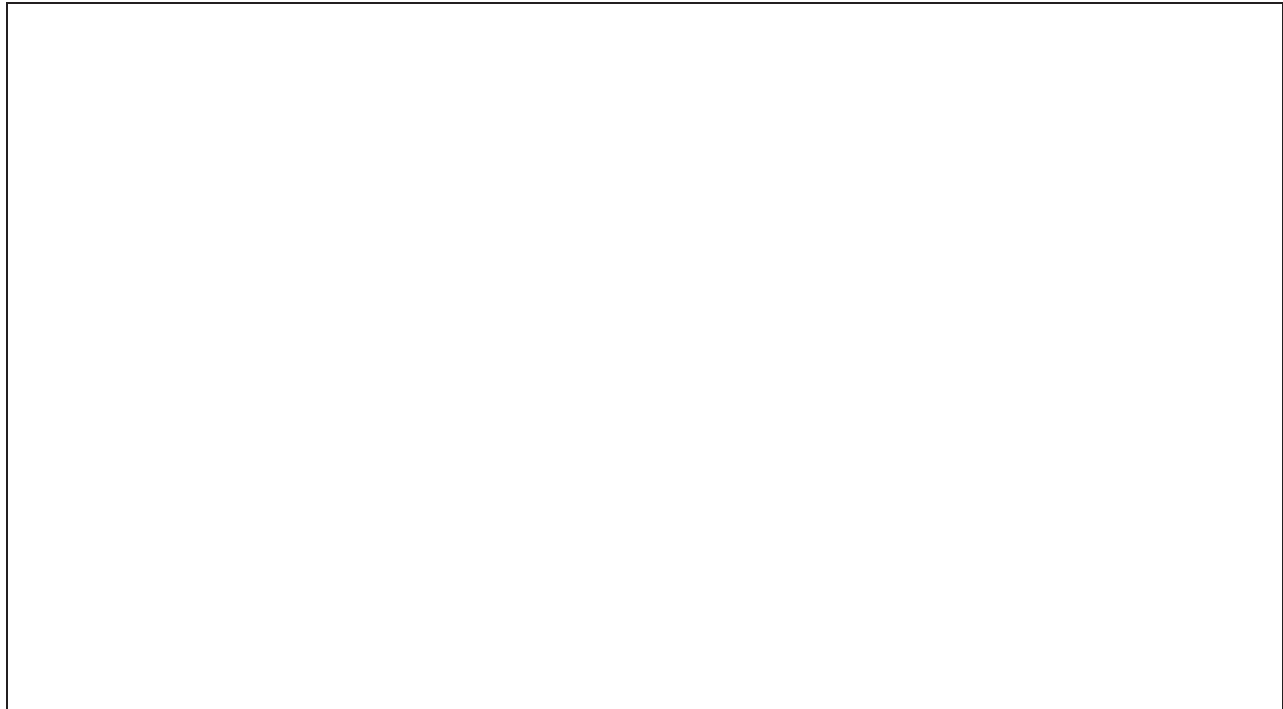
RMS - RMS detection

10.2.7. LOW POWER HDR (HDR8)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



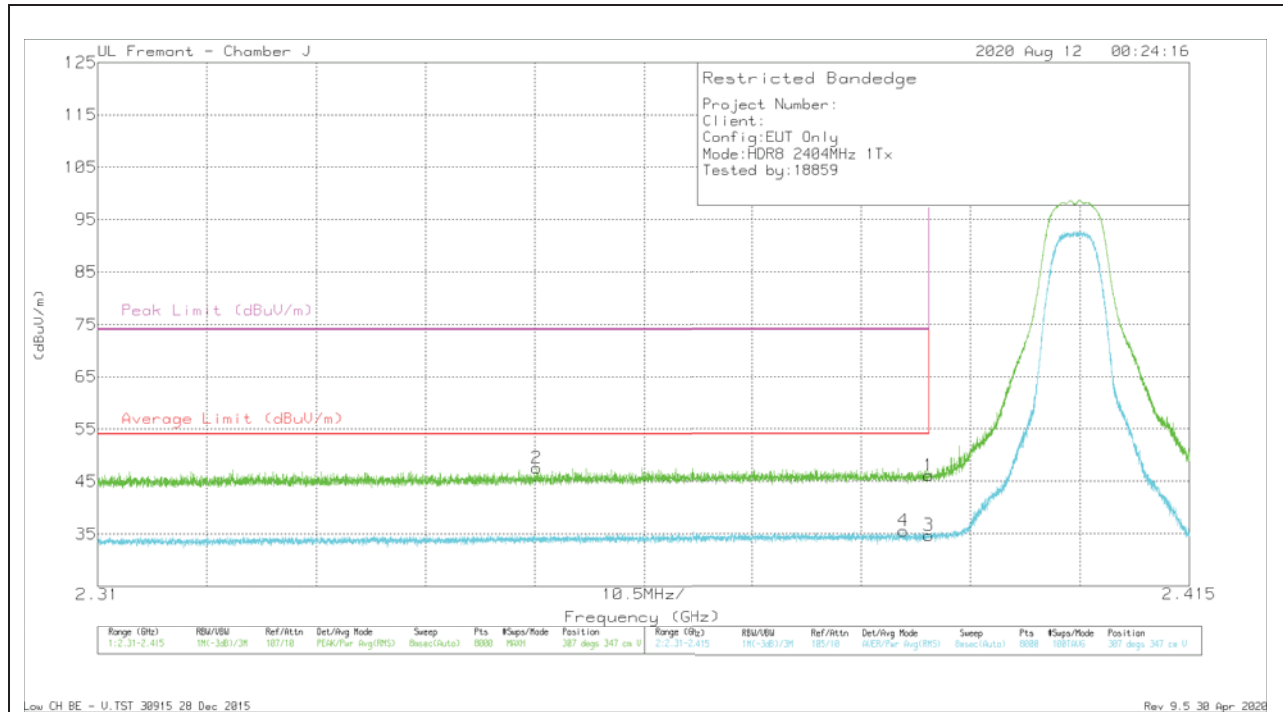
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	32.03	Pk	29	-14.7	46.33	-	-	74	-27.67	353	148	H
2	* 2.31983	34.27	Pk	28.7	-15	47.97	-	-	74	-26.03	353	148	H
3	* 2.39	20.48	RMS	29	-14.7	34.78	54	-19.22	-	-	353	148	H
4	* 2.38636	21.66	RMS	29	-14.7	35.96	54	-18.04	-	-	353	148	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

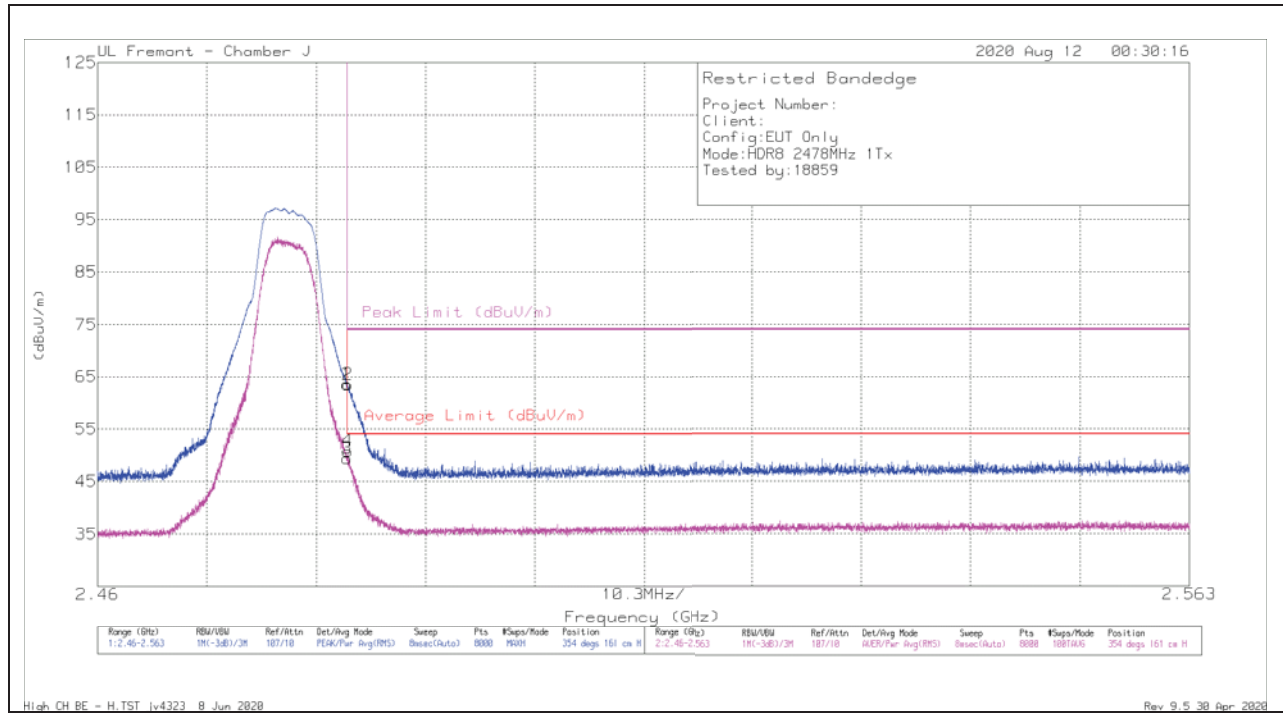


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	31.77	Pk	29	-14.7	46.07	-	-	74	-27.93	307	347	V
2	* 2.35219	33.56	Pk	28.9	-14.9	47.56	-	-	74	-26.44	307	347	V
3	* 2.39	20.39	RMS	29	-14.7	34.69	54	-19.31	-	-	307	347	V
4	* 2.38753	21.26	RMS	29	-14.7	35.56	54	-18.44	-	-	307	347	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

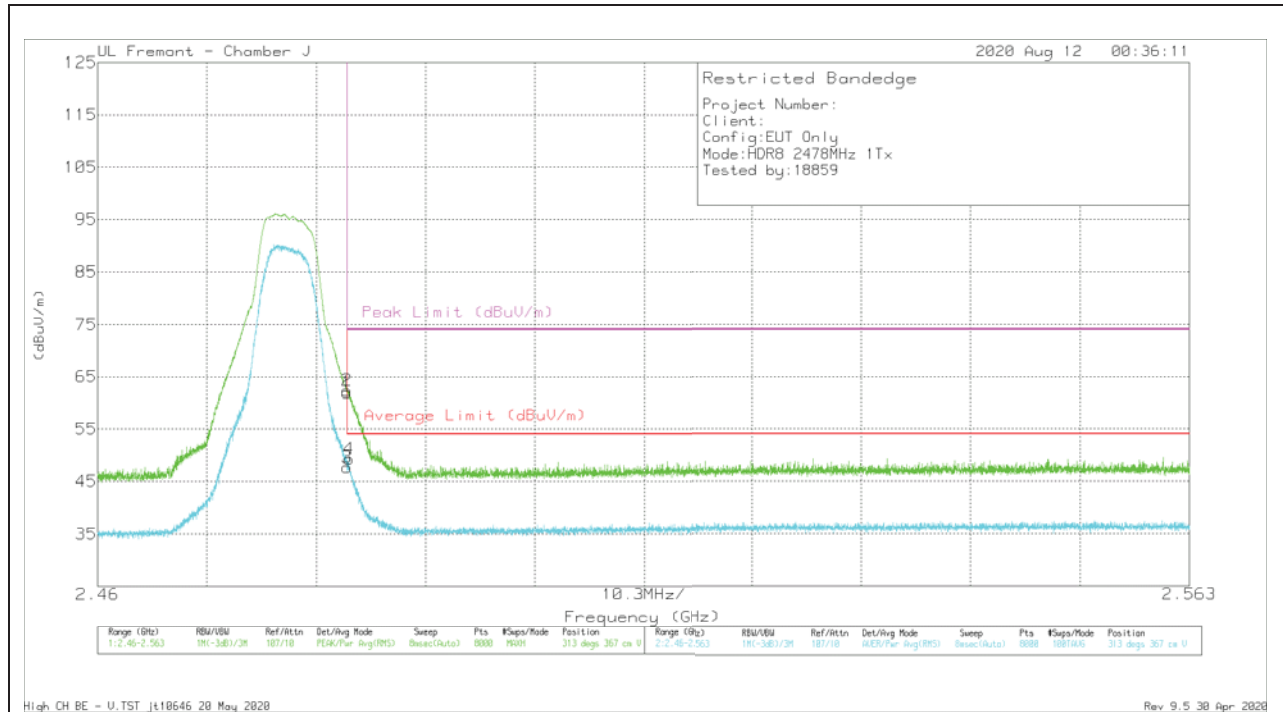
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	48.66	Pk	29.5	-14.6	63.56	-	-	74	-10.44	354	161	H
2	* 2.48354	48.61	Pk	29.5	-14.6	63.51	-	-	74	-10.49	354	161	H
3	* 2.4835	34.54	RMS	29.5	-14.6	49.44	54	-4.56	-	-	354	161	H
4	* 2.48358	35.84	RMS	29.5	-14.6	50.74	54	-3.26	-	-	354	161	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

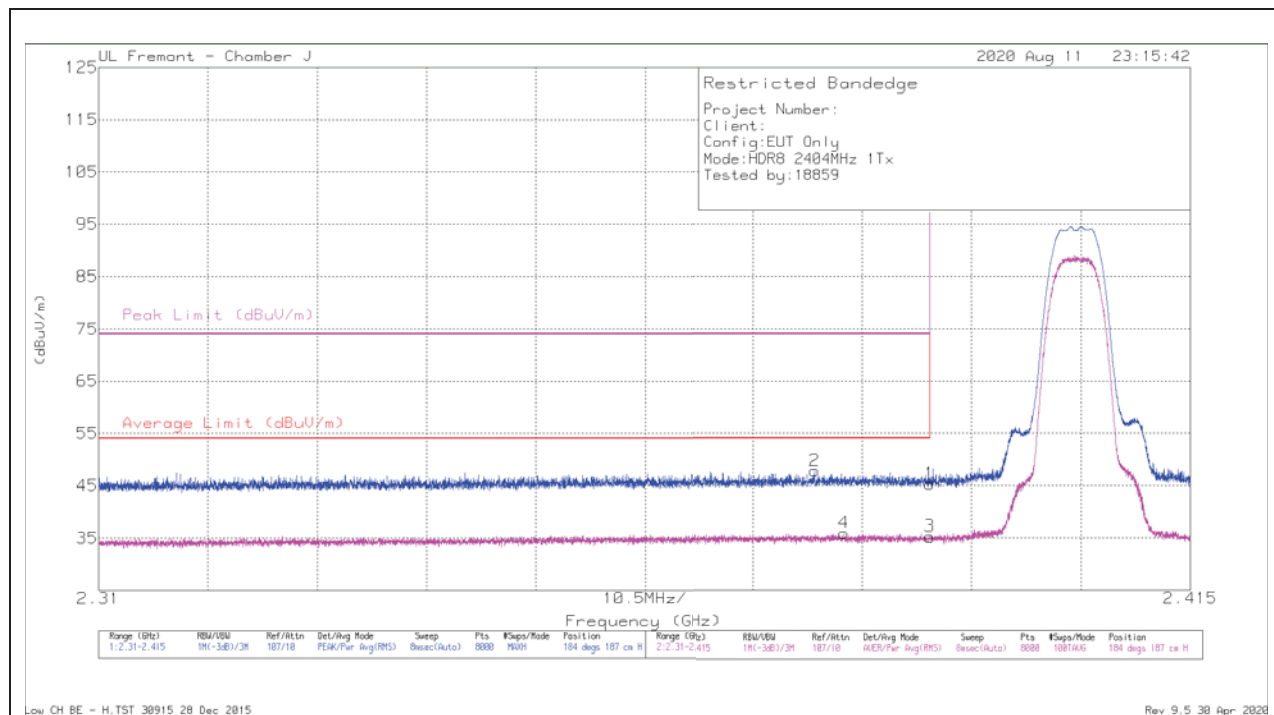


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Ampl/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	47.09	Pk	29.5	-14.6	61.99	-	-	74	-12.01	313	367	V
2	* 2.48351	47.46	Pk	29.5	-14.6	62.36	-	-	74	-11.64	313	367	V
3	* 2.4835	32.83	RMS	29.5	-14.6	47.73	54	-6.27	-	-	313	367	V
4	* 2.48366	34.38	RMS	29.5	-14.6	49.28	54	-4.72	-	-	313	367	V

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

Pk - Peak detector

RMS - RMS detection

ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

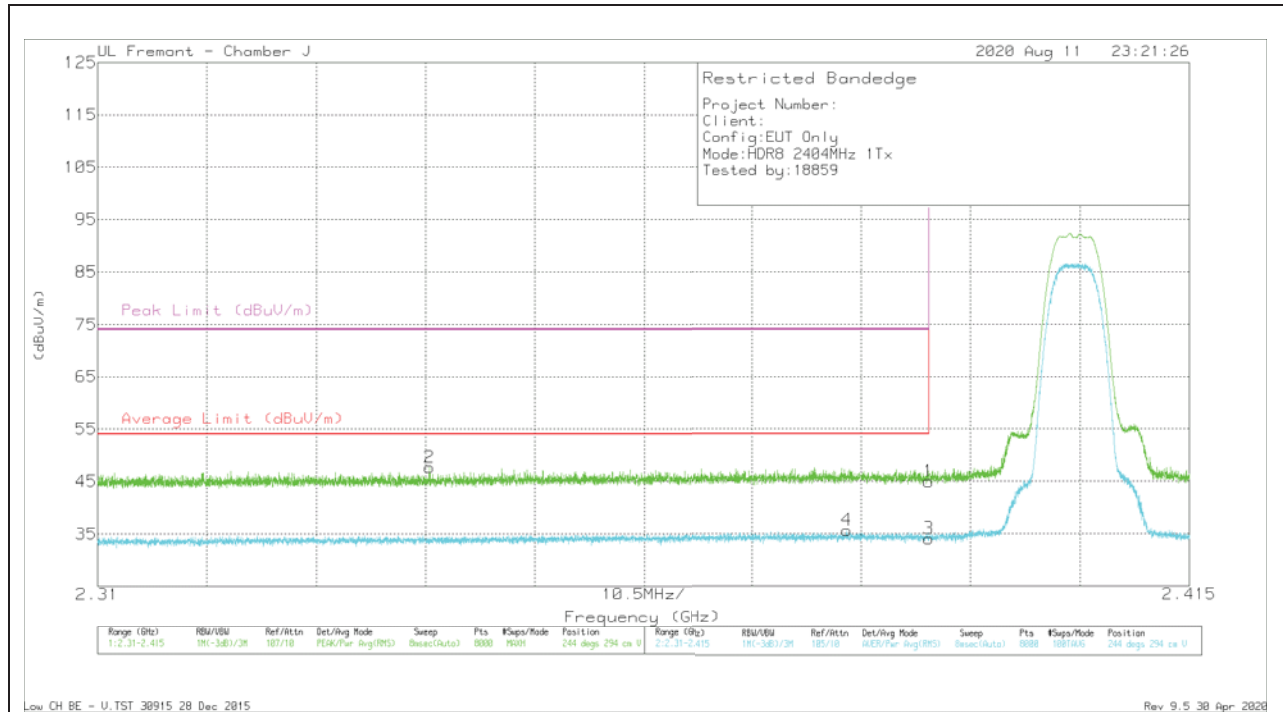
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	31.06	Pk	29	-14.7	45.36	-	-	74	-28.64	184	187	H
2	* 2.37893	33.52	Pk	29	-14.7	47.82	-	-	74	-26.18	184	187	H
3	* 2.39	20.91	RMS	29	-14.7	35.21	54	-18.79	-	-	184	187	H
4	* 2.38173	21.54	RMS	29	-14.7	35.84	54	-18.16	-	-	184	187	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

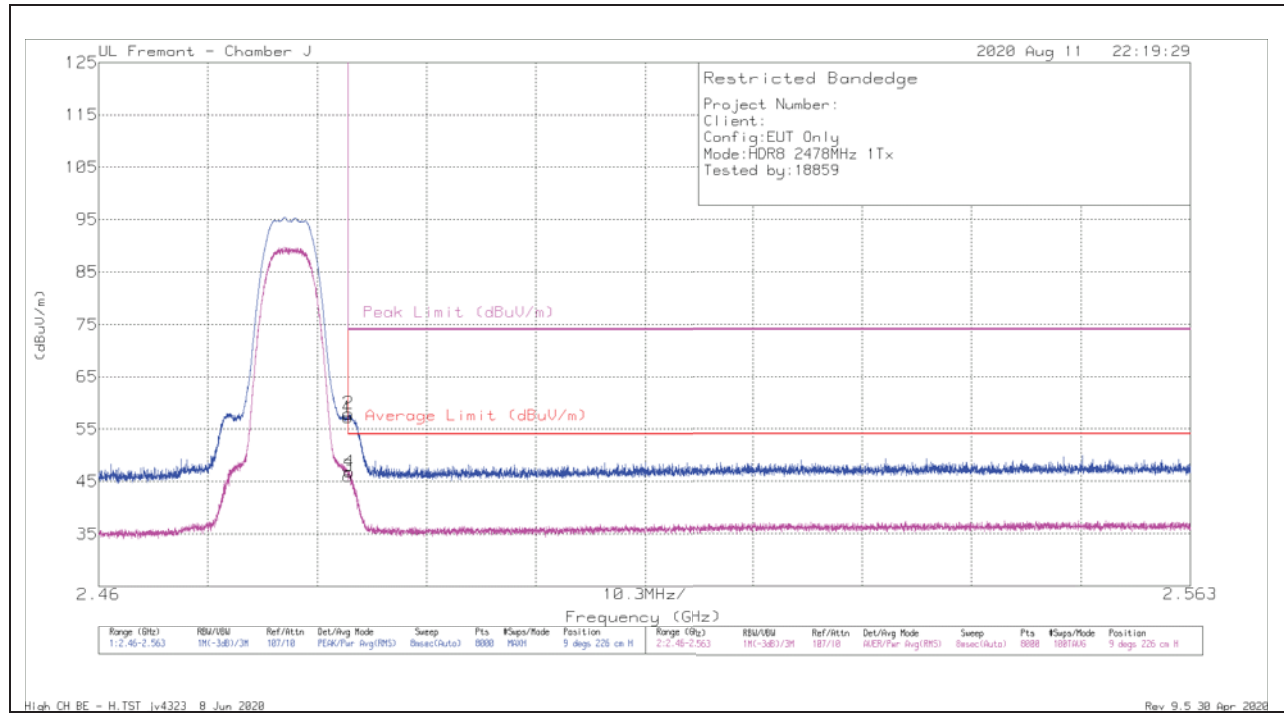


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	30.65	Pk	29	-14.7	44.95	-	-	74	-29.05	244	294	V
2	* 2.34185	33.64	Pk	28.9	-14.9	47.64	-	-	74	-26.36	244	294	V
3	* 2.39	19.68	RMS	29	-14.7	33.98	54	-20.02	-	-	244	294	V
4	* 2.38211	21.35	RMS	29	-14.7	35.65	54	-18.35	-	-	244	294	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

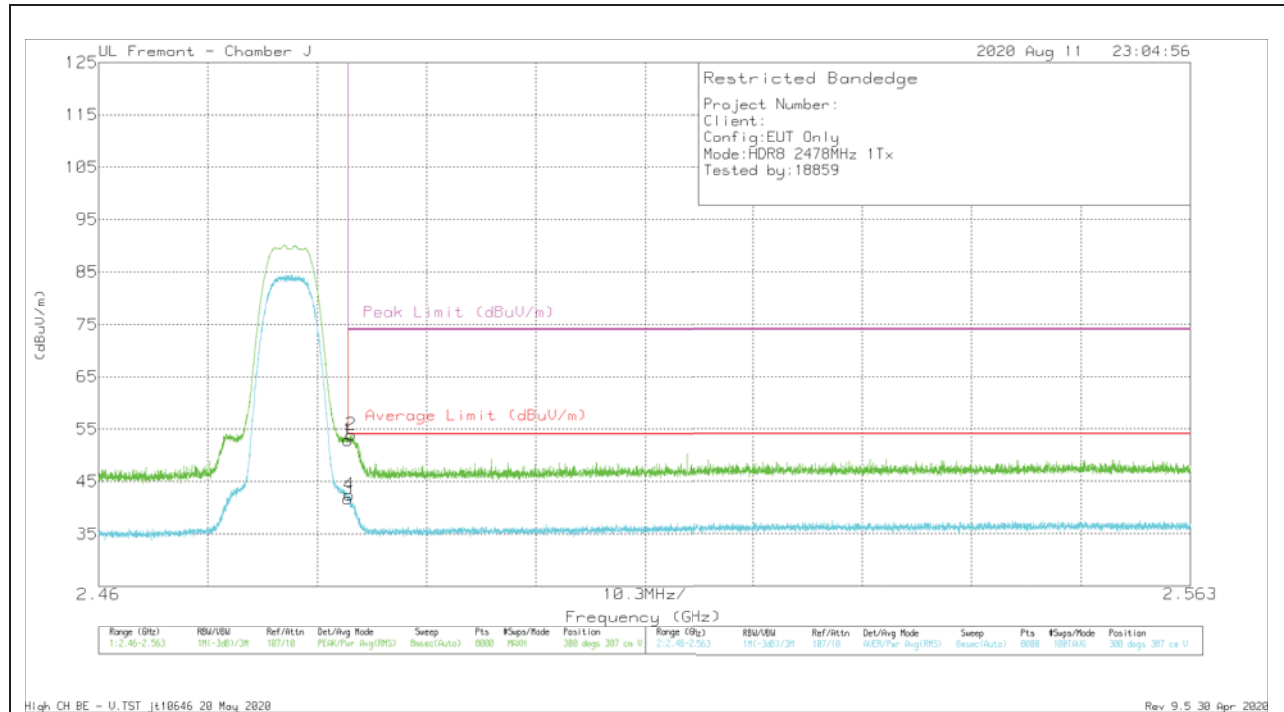
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.32	Pk	29.5	-14.6	57.22	-	-	74	-16.78	9	226	H
2	* 2.48353	43.03	Pk	29.5	-14.6	57.93	-	-	74	-16.07	9	226	H
3	* 2.4835	31.1	RMS	29.5	-14.6	46	54	-8	-	-	9	226	H
4	* 2.48362	31.96	RMS	29.5	-14.6	46.86	54	-7.14	-	-	9	226	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 T963 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	37.97	Pk	29.5	-14.6	52.87	-	-	74	-21.13	300	387	V
2	* 2.48378	39.05	Pk	29.5	-14.6	53.95	-	-	74	-20.05	300	387	V
3	* 2.4835	26.78	RMS	29.5	-14.6	41.68	54	-12.32	-	-	300	387	V
4	* 2.4836	27.59	RMS	29.5	-14.6	42.49	54	-11.51	-	-	300	387	V

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

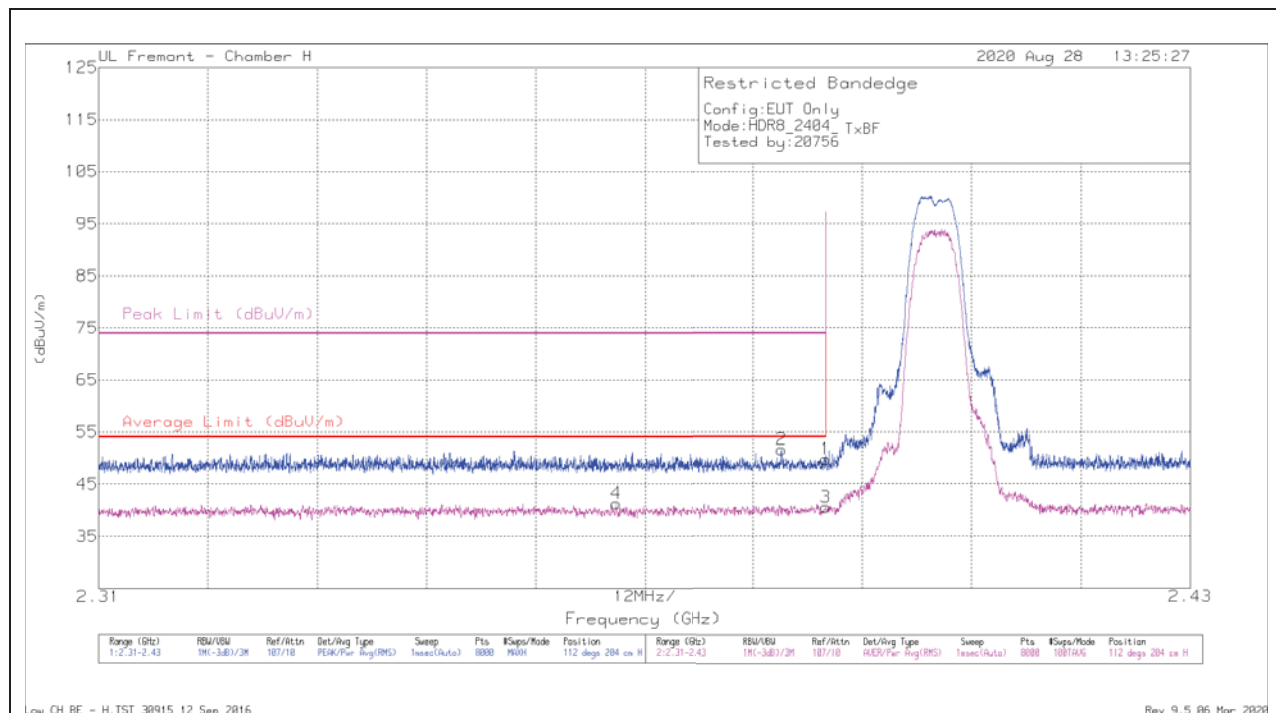
Pk - Peak detector

RMS - RMS detection

10.2.8. LOW POWER HDR TXBF (HDR8)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



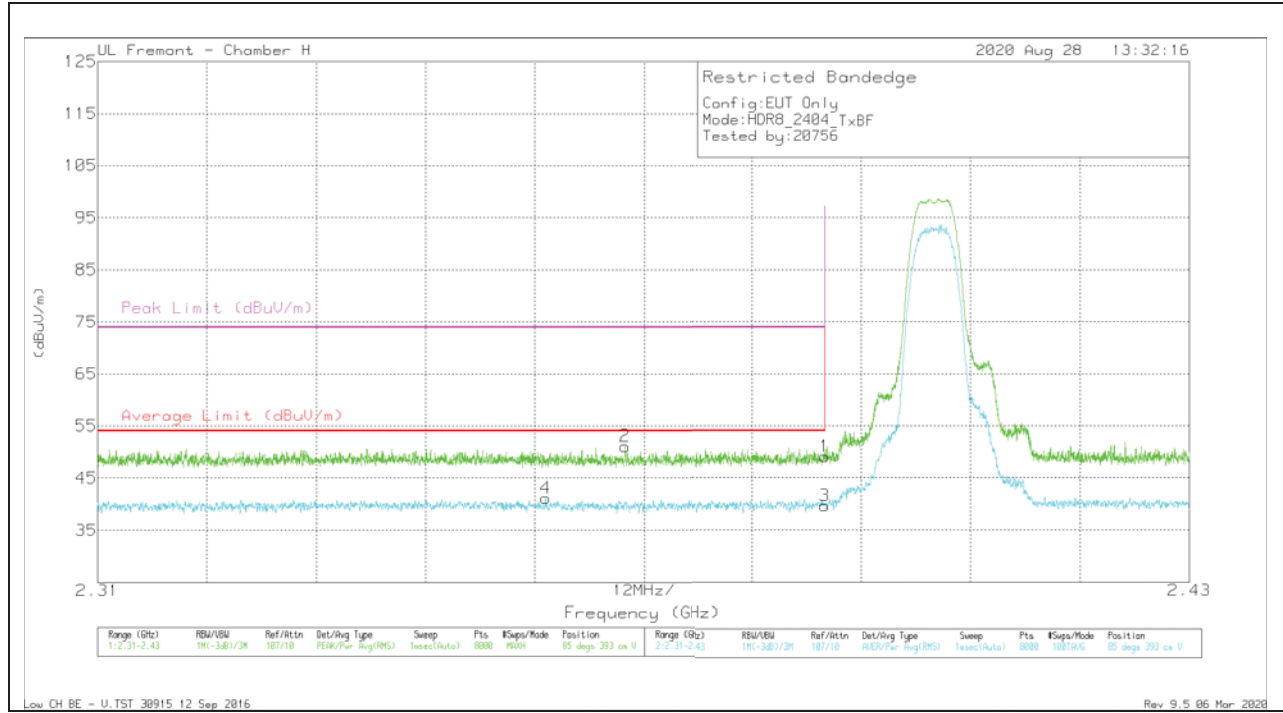
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.36683	33.45	RMS	31.7	-23.9	41.25	54	-12.75	-	-	112	204	H
2	* 2.38513	43.61	Pk	31.8	-23.8	51.61	-	-	74	-22.39	112	204	H
1	* 2.38999	41.8	Pk	31.8	-23.8	49.8	-	-	74	-24.2	112	204	H
3	* 2.38999	32.5	RMS	31.8	-23.8	40.5	54	-13.5	-	-	112	204	H

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

Pk - Peak detector

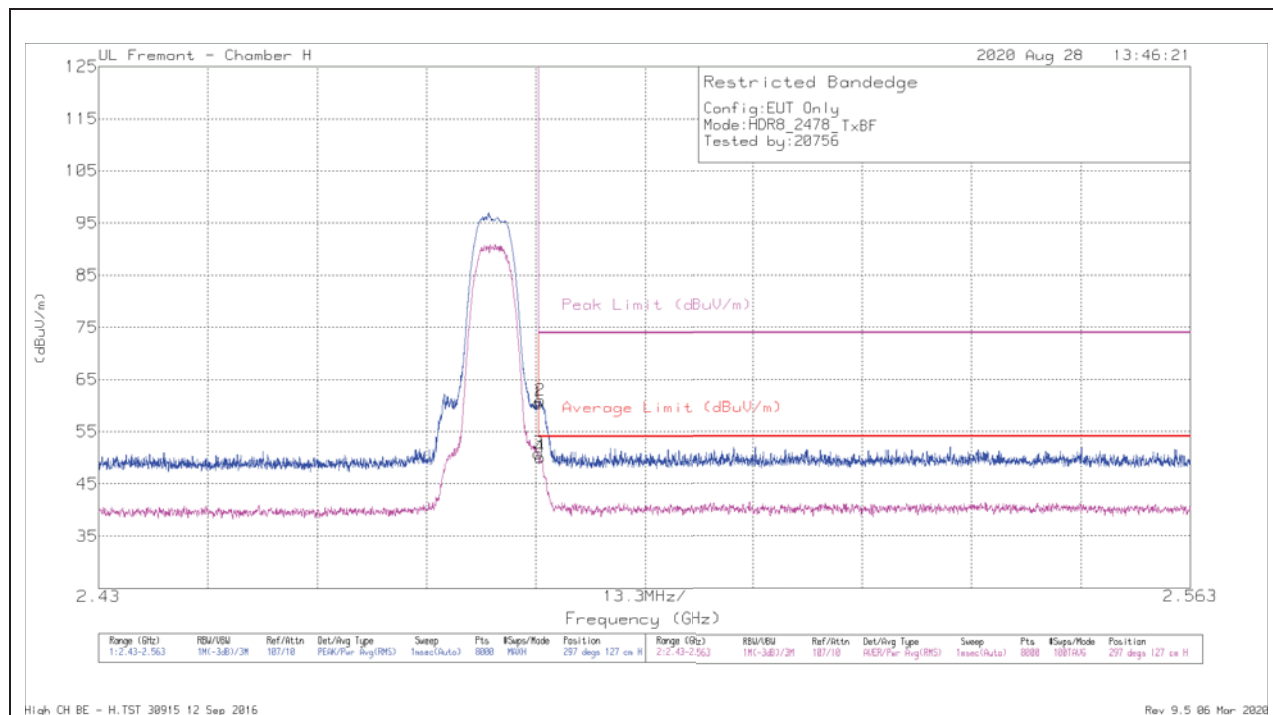
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T862 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	41.13	Pk	31.8	-23.8	49.13	-	-	74	-24.87	85	393	V
2	* 2.36791	43.21	Pk	31.7	-23.8	51.11	-	-	74	-22.89	85	393	V
3	* 2.38999	31.71	RMS	31.8	-23.8	39.71	54	-14.29	-	-	85	393	V
4	* 2.35916	33.24	RMS	31.8	-23.9	41.14	54	-12.86	-	-	85	393	V

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

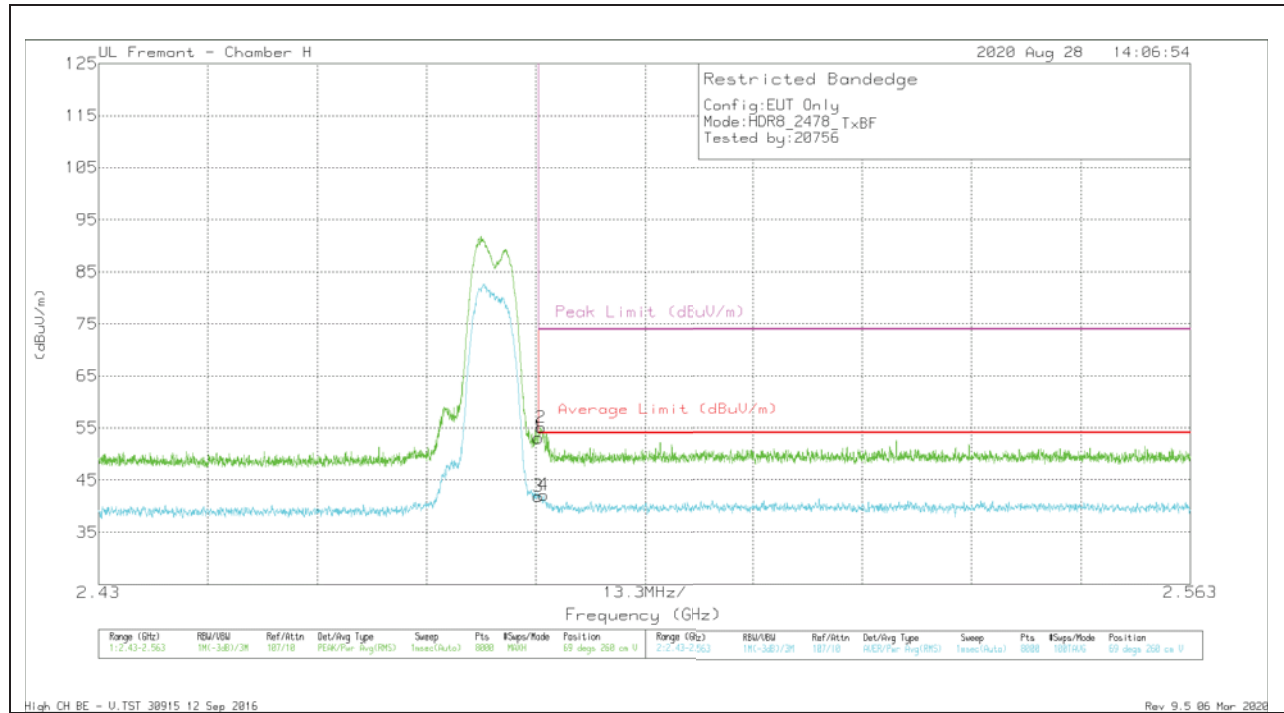
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	51.84	Pk	32.3	-23.7	60.44	-	-	74	-13.56	297	127	H
2	* 2.48371	52.38	Pk	32.3	-23.7	60.98	-	-	74	-13.02	297	127	H
3	* 2.48351	42.27	RMS	32.3	-23.7	50.87	54	-3.13	-	-	297	127	H
4	* 2.48371	41.52	RMS	32.3	-23.7	50.12	54	-3.88	-	-	297	127	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

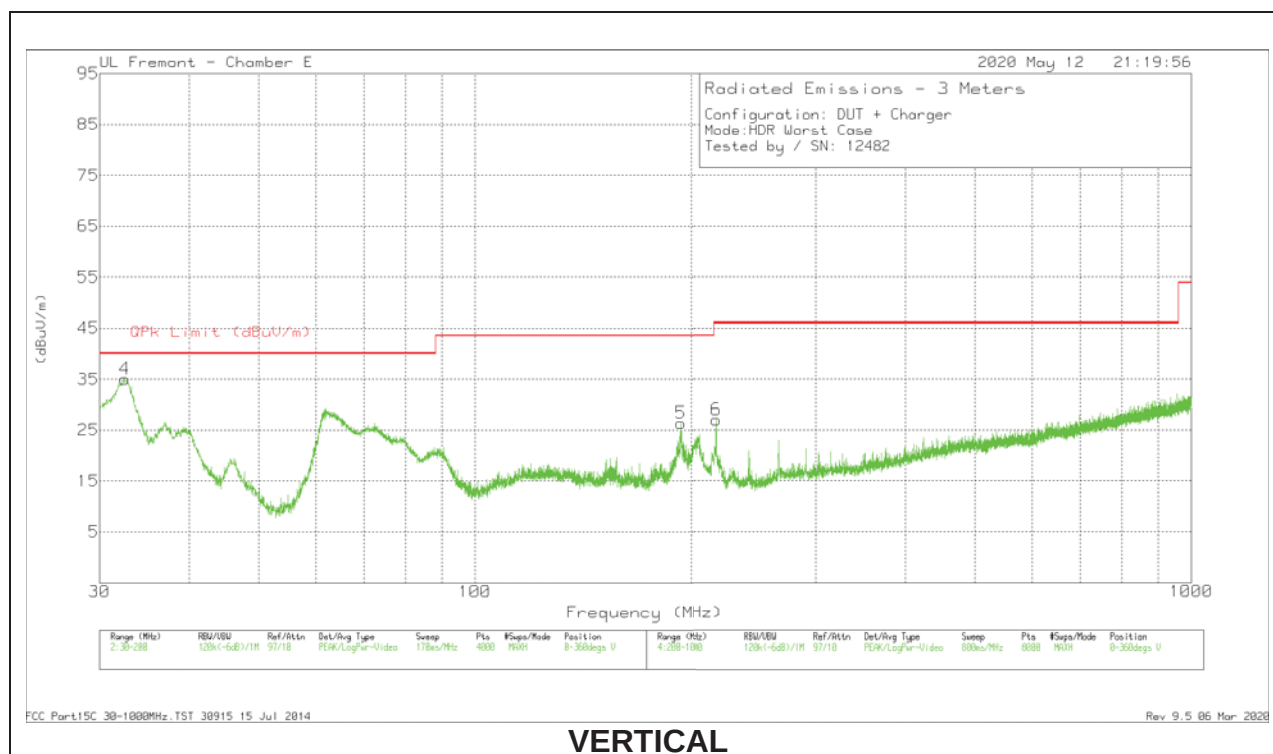
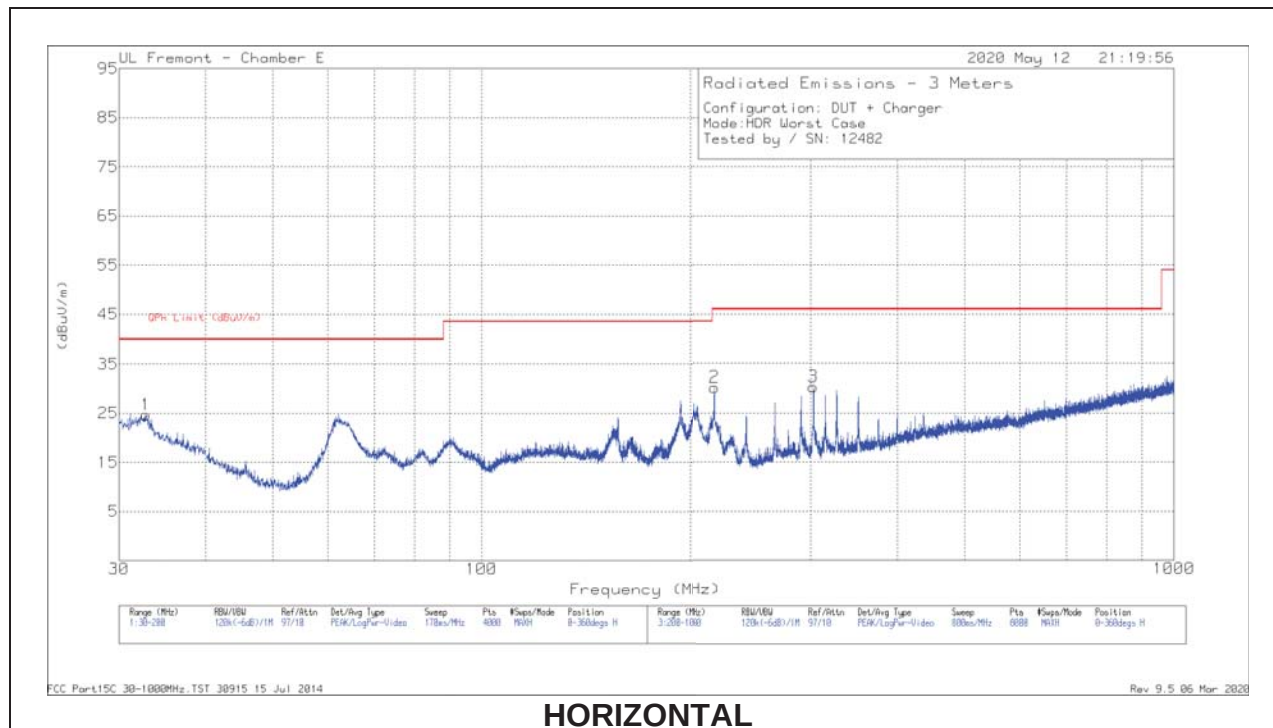


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	44.53	Pk	32.3	-23.7	53.13	-	-	74	-20.87	69	260	V
2	* 2.48379	46.54	Pk	32.3	-23.7	55.14	-	-	74	-18.86	69	260	V
3	* 2.48351	33.25	RMS	32.3	-23.7	41.85	54	-12.15	-	-	69	260	V
4	* 2.4841	33.52	RMS	32.3	-23.7	42.12	54	-11.88	-	-	69	260	V

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

10.3. 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)	Ampl/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	32.6032	37.78	Qp	25	-31.5	31.28	40	-8.72	39	113	V
	32.8592	41.64	Pk	24.7	-31.6	34.74	40	-5.26	39	113	V
1	32.8057	31.52	Pk	24.8	-31.6	24.72	40	-15.28	0-360	201	H
5	193.7099	38.51	Pk	17.8	-30	26.31	43.52	-17.21	0-360	100	V
2	217.9023	43.49	Pk	16.5	-29.8	30.19	46.02	-15.83	0-360	99	H
6	218.0023	40.28	Pk	16.5	-29.8	26.98	46.02	-19.04	0-360	99	V
3	302.6133	40.26	Pk	19.3	-29.3	30.26	46.02	-15.76	0-360	99	H

Pk - Peak detector

Qp - Quasi-Peak detector

18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T125 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	18.63846	37.3	Pk	32.5	-21.2	-9.5	39.1	54	-14.9	74	-34.9
2	21.41179	37.98	Pk	33.2	-21.2	-9.5	40.48	54	-13.52	74	-33.52
3	22.8337	37.48	Pk	33.5	-20.6	-9.5	40.88	54	-13.12	74	-33.12
4	18.96644	37.69	Pk	32.7	-19.9	-9.5	40.99	54	-13.01	74	-33.01
5	21.43779	38.69	Pk	33.2	-21.3	-9.5	41.09	54	-12.91	74	-32.91
6	25.16506	37.6	Pk	34.2	-19.4	-9.5	42.9	54	-11.1	74	-31.1

Pk - Peak detector

11. 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.

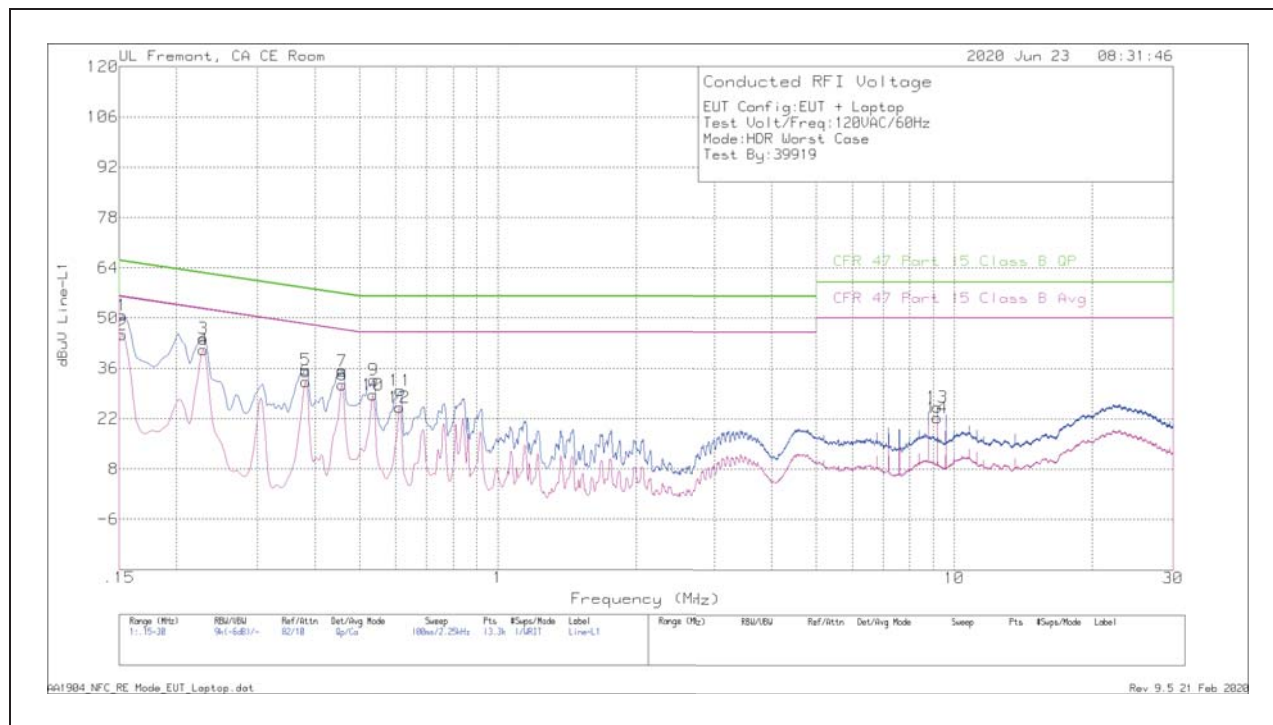
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line With Laptop

LINE 1 RESULTS



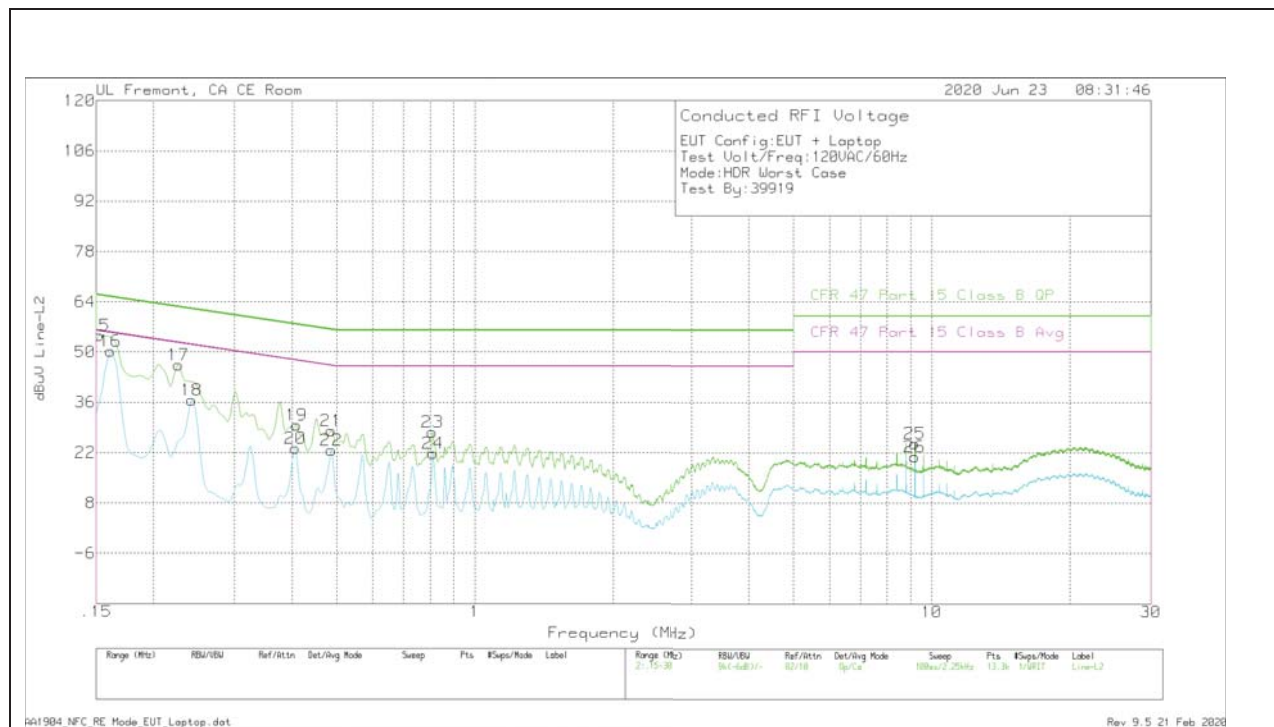
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 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)M argin (dB)
1	.15225	40.63	Qp	.1	0	10	50.73	65.88	-15.15	-	-
2	.15225	35.26	Ca	.1	0	10	45.36	-	-	55.88	-10.52
3	.22875	34.24	Qp	0	0	10	44.24	62.49	-18.25	-	-
4	.22875	31.22	Ca	0	0	10	41.22	-	-	52.49	-11.27
5	.38175	25.63	Qp	0	0	10	35.63	58.24	-22.61	-	-
6	.38175	22.37	Ca	0	0	10	32.37	-	-	48.24	-15.87
7	.45825	25.29	Qp	0	0	10	35.29	56.72	-21.43	-	-
8	.45825	21.48	Ca	0	0	10	31.48	-	-	46.72	-15.24
9	.537	22.77	Qp	0	0	10	32.77	56	-23.23	-	-
10	.53475	18.67	Ca	0	0	10	28.67	-	-	46	-17.33
11	.6135	19.92	Qp	0	0	10	29.92	56	-26.08	-	-
12	.61125	15.12	Ca	0	0	10	25.12	-	-	46	-20.88
13	9.18825	15.05	Qp	0	.2	10.1	25.35	60	-34.65	-	-
14	9.18825	11.99	Ca	0	.2	10.1	22.29	-	-	50	-27.71

Qp - Quasi-Peak detector

Ca - CISPR average detection

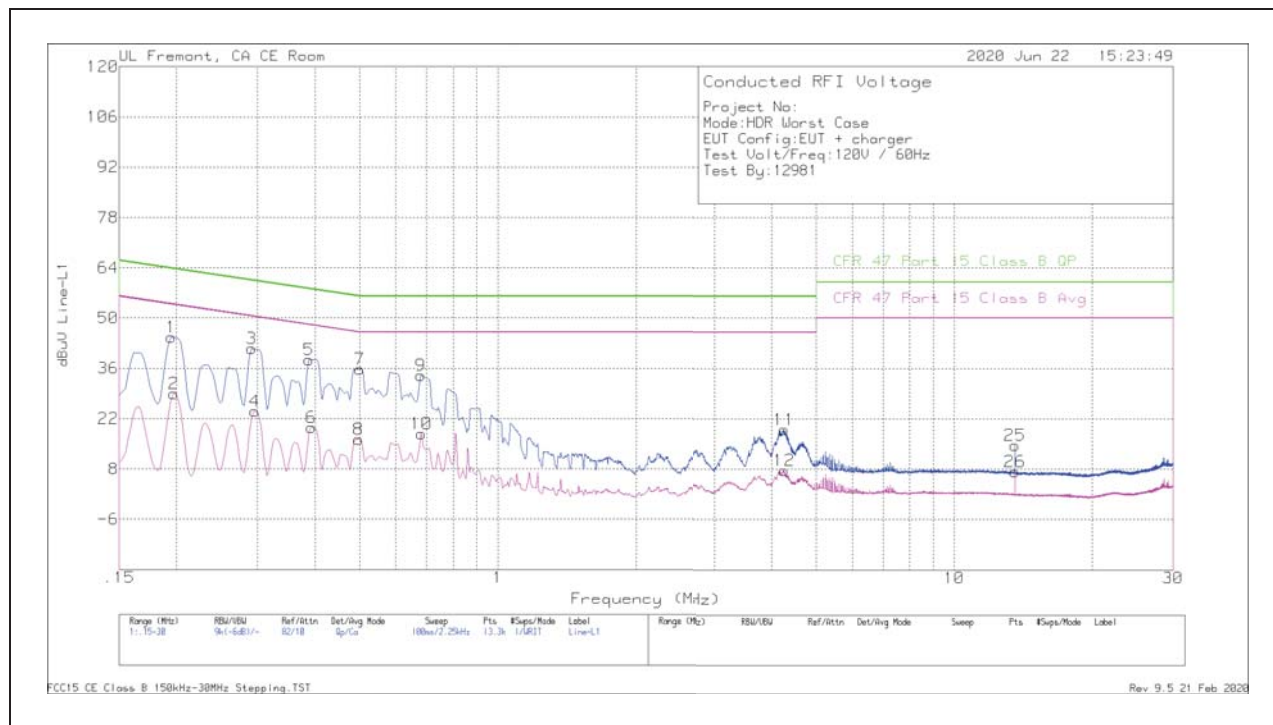
LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 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)
15	.15225	44.68	Qp	0	0	10	54.68	65.88	-11.2	-	-
16	.16125	40.32	Ca	0	0	10	50.32	-	-	55.4	-5.08
17	.2265	36.37	Qp	0	0	10	46.37	62.58	-16.21	-	-
18	.24225	26.57	Ca	0	0	10	36.57	-	-	52.02	-15.45
19	.40875	19.71	Qp	0	0	10	29.71	57.67	-27.96	-	-
20	.4065	13.16	Ca	0	0	10	23.16	-	-	47.72	-24.56
21	.48638	18.03	Qp	0	0	10	28.03	56.23	-28.2	-	-
22	.4875	12.66	Ca	0	0	10	22.66	-	-	46.21	-23.55
23	.80925	17.75	Qp	0	0	10	27.75	56	-28.25	-	-
24	.8115	11.86	Ca	0	0	10	21.86	-	-	46	-24.14
25	9.19275	14.37	Qp	0	.2	10.1	24.67	60	-35.33	-	-
26	9.19275	10.66	Ca	0	.2	10.1	20.96	-	-	50	-29.04

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line With AC/DC Adapter**LINE 1 RESULTS****Range 1: Line-L1 .15 - 30MHz**

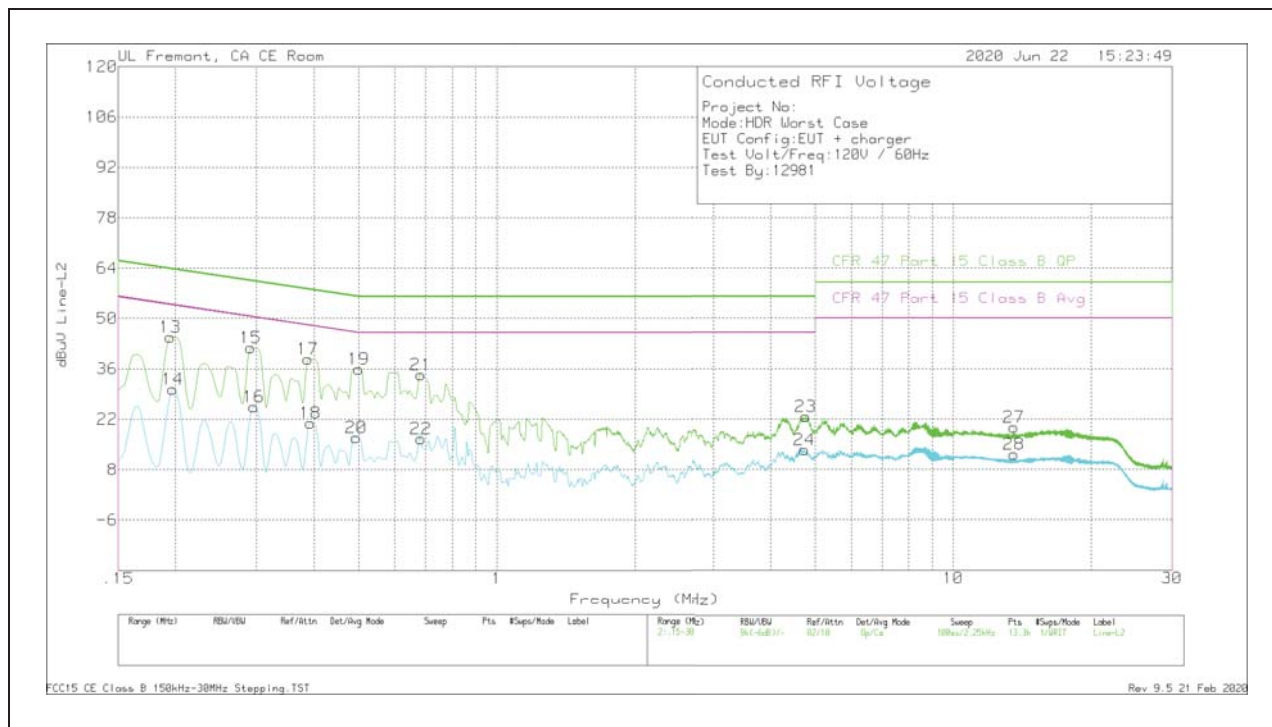
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
1	.195	34.67	Qp	0	0	10	44.67	63.82	-19.15	-	-
2	.19725	18.98	Ca	0	0	10	28.98	-	-	53.73	-24.75
3	.29175	31.48	Qp	0	0	10	41.48	60.47	-18.99	-	-
4	.29625	14.07	Ca	0	0	10	24.07	-	-	50.35	-26.28
5	.3885	28.42	Qp	0	0	10	38.42	58.1	-19.68	-	-
6	.393	9.62	Ca	0	0	10	19.62	-	-	48	-28.38
7	.501	25.79	Qp	0	0	10	35.79	56	-20.21	-	-
8	.49763	6.17	Ca	0	0	10	16.17	-	-	46.04	-29.87
9	.67875	24.09	Qp	0	0	10	34.09	56	-21.91	-	-
10	.681	7.84	Ca	0	0	10	17.84	-	-	46	-28.16
11	4.25625	8.81	Qp	0	.1	10.1	19.01	56	-36.99	-	-
12	4.254	-2.47	Ca	0	.1	10.1	7.73	-	-	46	-38.27
*25	13.56	4.27	Qp	.1	.2	10.1	14.67	60	-45.33	-	-
*26	13.56	-3.07	Ca	.1	.2	10.1	7.33	-	-	50	-42.67

Qp - Quasi-Peak detector

Ca - CISPR average detection

*Indicates UL RFID signal. Not from device.

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 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	.195	34.87	Qp	0	0	10	44.87	63.82	-18.95	-	-
14	.19725	20.34	Ca	0	0	10	30.34	-	-	53.73	-23.39
15	.29175	31.88	Qp	0	0	10	41.88	60.47	-18.59	-	-
16	.29625	15.46	Ca	0	0	10	25.46	-	-	50.35	-24.89
17	.3885	28.79	Qp	0	0	10	38.79	58.1	-19.31	-	-
18	.393	10.92	Ca	0	0	10	20.92	-	-	48	-27.08
19	.501	25.97	Qp	0	0	10	35.97	56	-20.03	-	-
20	.49425	6.98	Ca	0	0	10	16.98	-	-	46.1	-29.12
21	.68325	24.31	Qp	0	0	10	34.31	56	-21.69	-	-
22	.68325	6.62	Ca	0	0	10	16.62	-	-	46	-29.38
23	4.776	12.42	Qp	0	.1	10.1	22.62	56	-33.38	-	-
24	4.7445	3.16	Ca	0	.1	10.1	13.36	-	-	46	-32.64
*27	13.56	9.27	Qp	.1	.2	10.1	19.67	60	-40.33	-	-
*28	13.56	1.89	Ca	.1	.2	10.1	12.29	-	-	50	-37.71

Qp - Quasi-Peak detector

Ca - CISPR average detection

*Indicates UL RFID signal. Not from device.

12. SETUP PHOTOS

Please refer to 13335182-EP1V1 for setup photos

END OF TEST REPORT