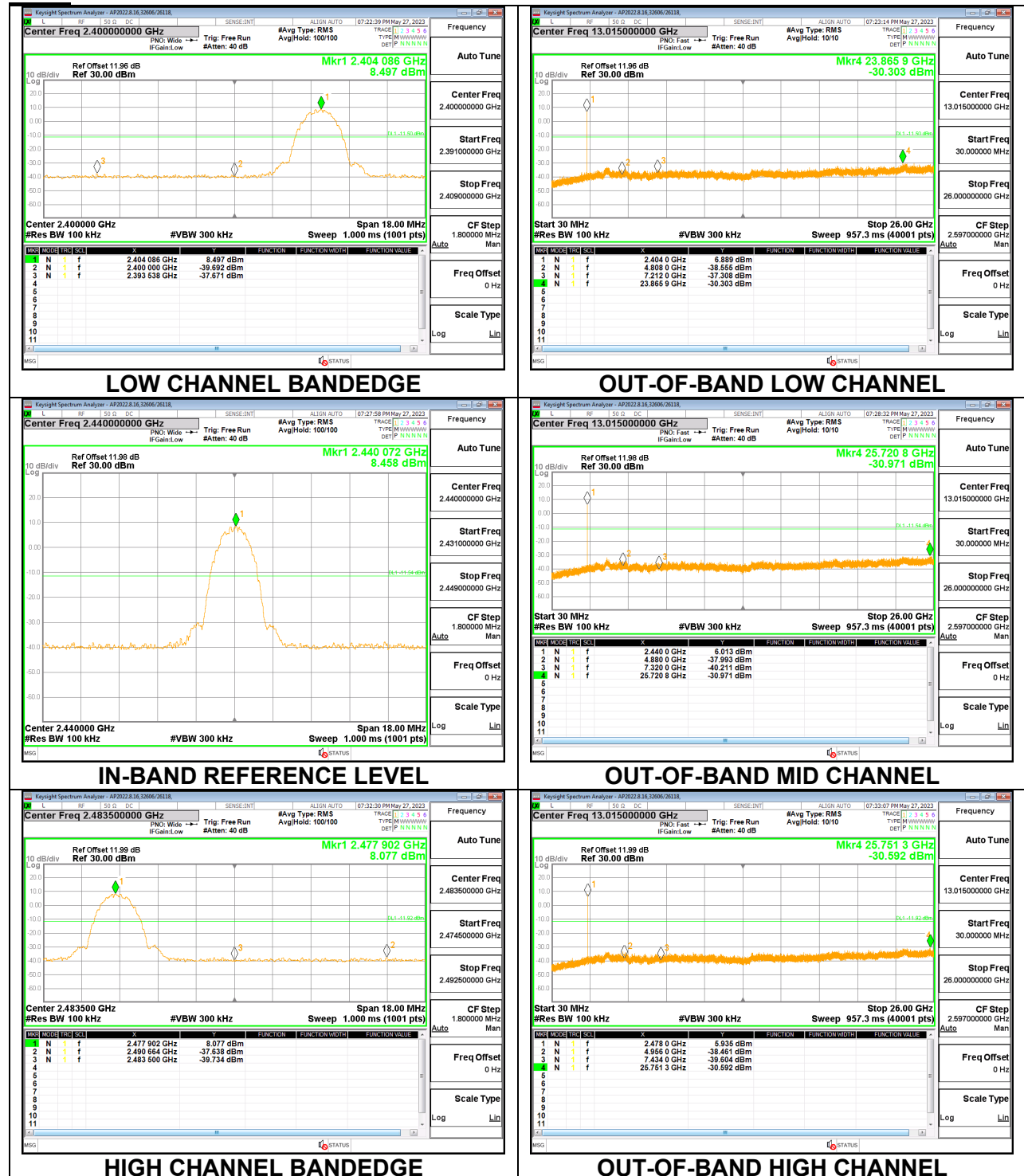
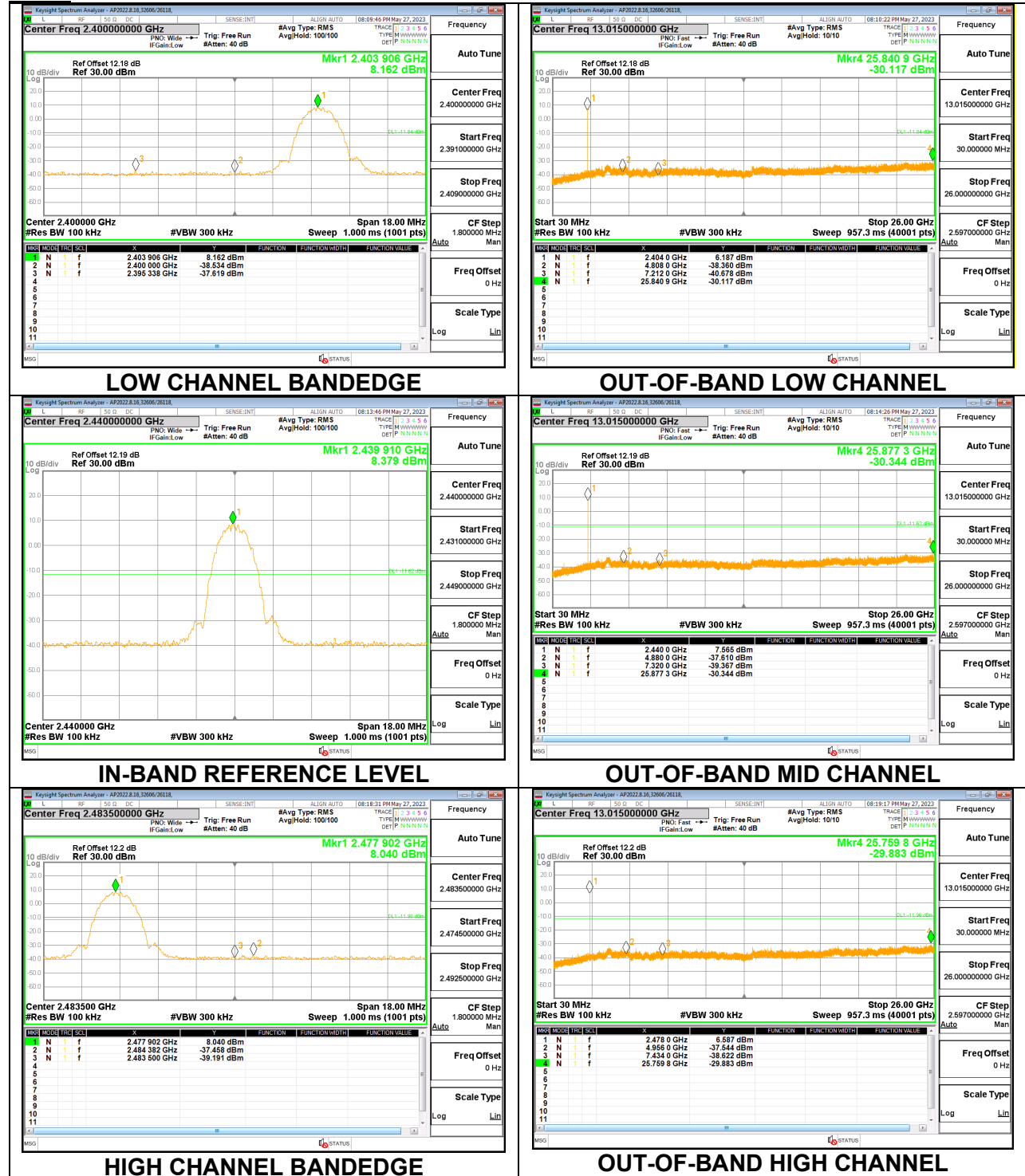


9.7.7. LOW POWER BLE (2Mbps)

ANT 4

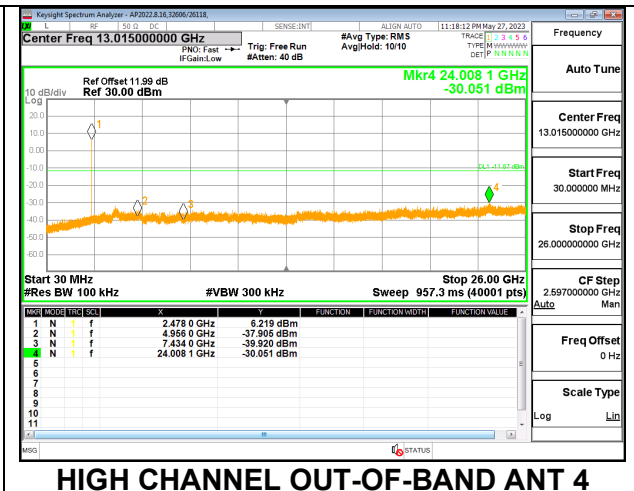
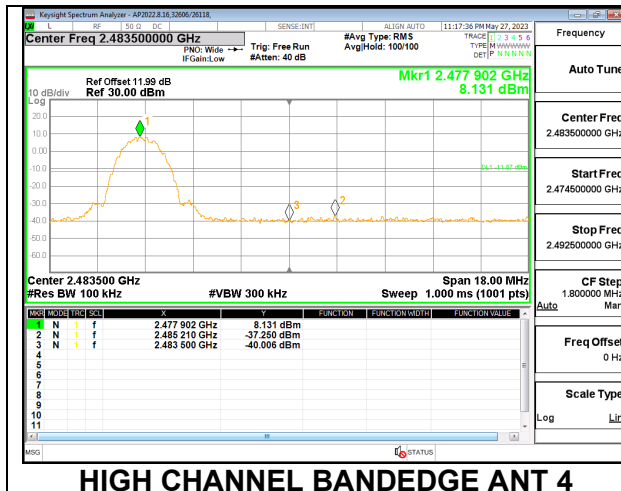
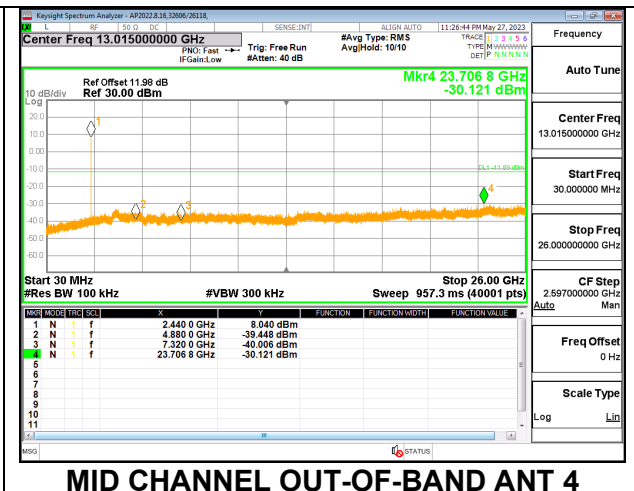
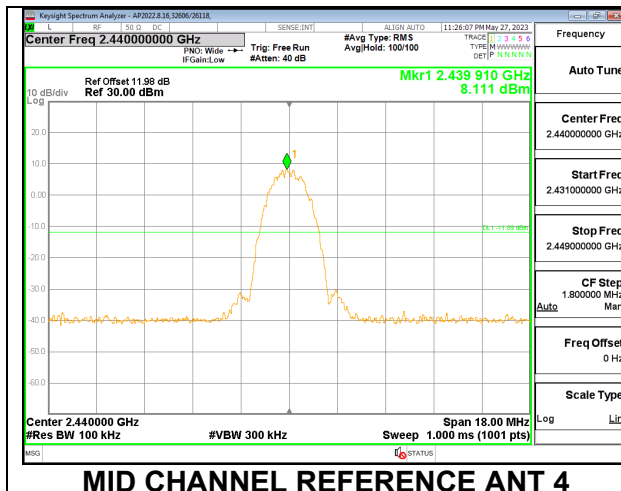
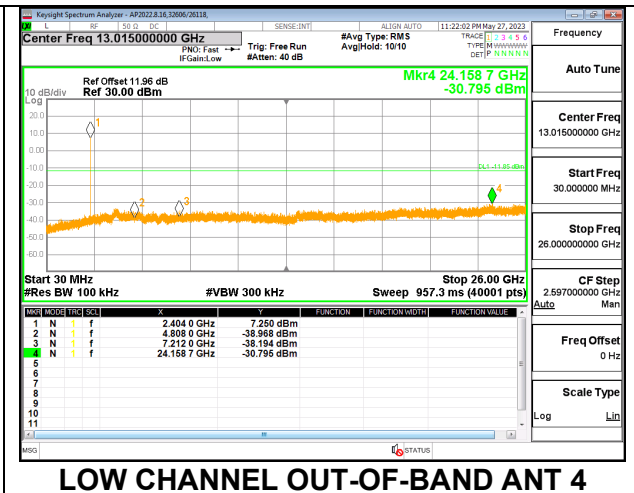
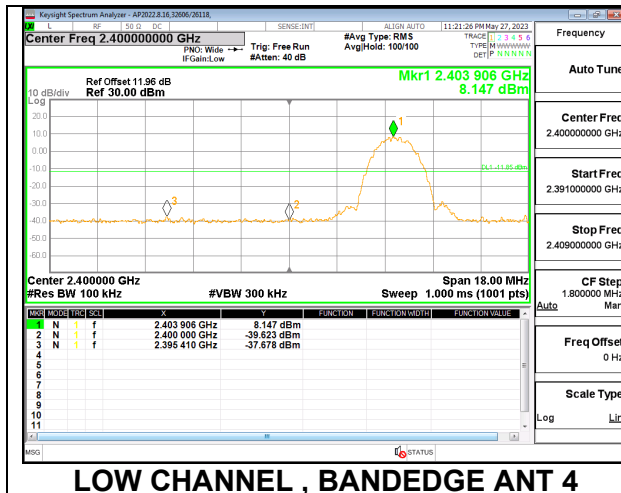


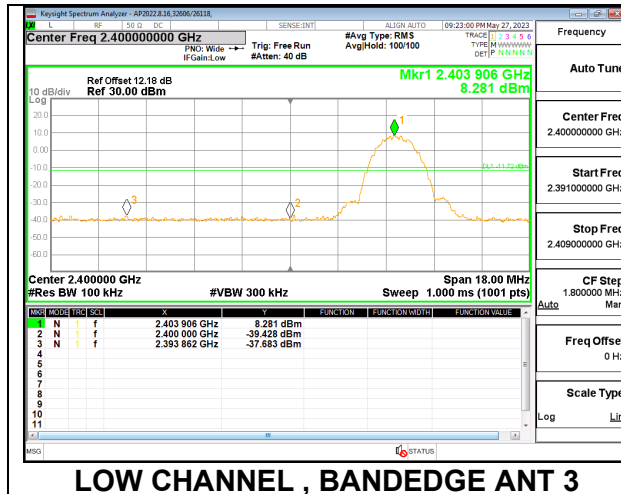
ANT 3



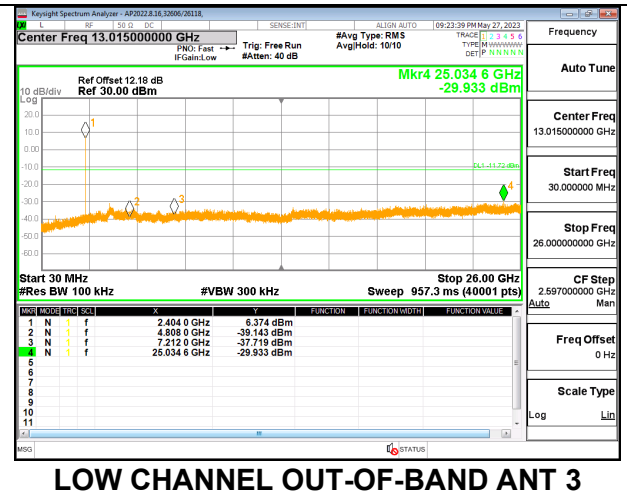
9.7.8. LOW POWER BLE TXBF (2Mbps)

Note: Test procedures and setting are same as BLE normal mode.

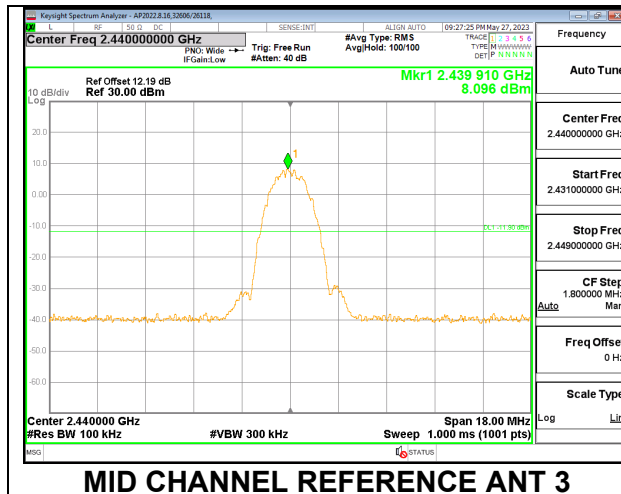




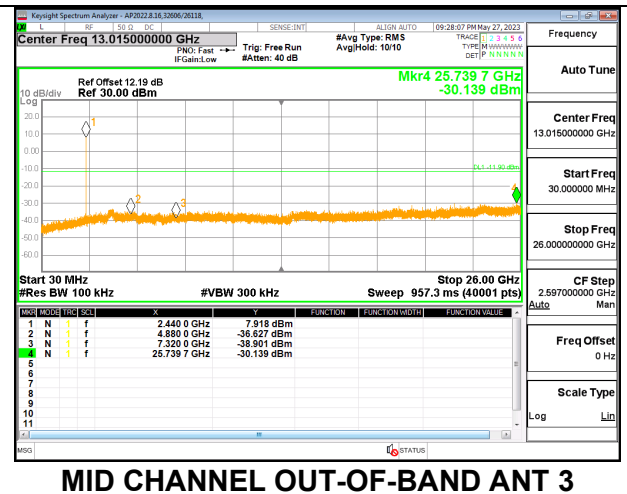
LOW CHANNEL , BANDEDGE ANT 3



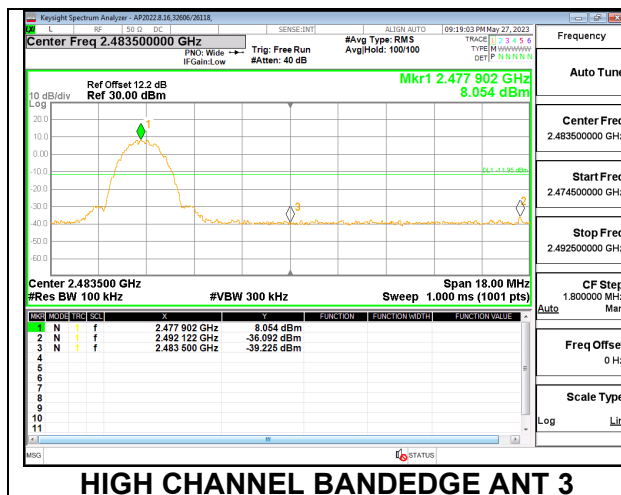
LOW CHANNEL OUT-OF-BAND ANT 3



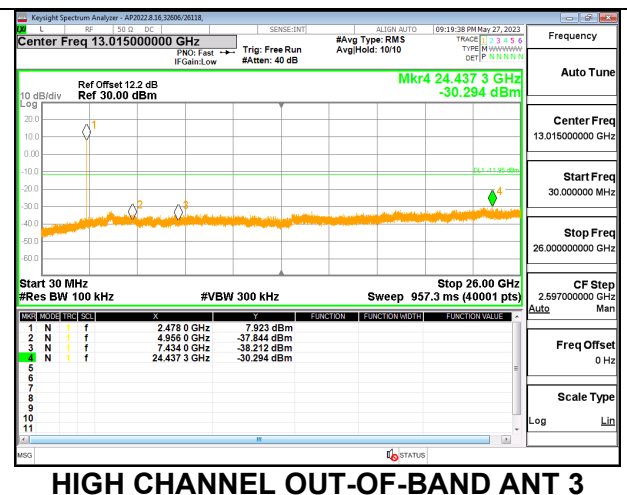
MID CHANNEL REFERENCE ANT 3



MID CHANNEL OUT-OF-BAND ANT 3



HIGH CHANNEL BANDEDGE ANT 3



HIGH CHANNEL OUT-OF-BAND ANT 3

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.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

In addition:

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

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

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

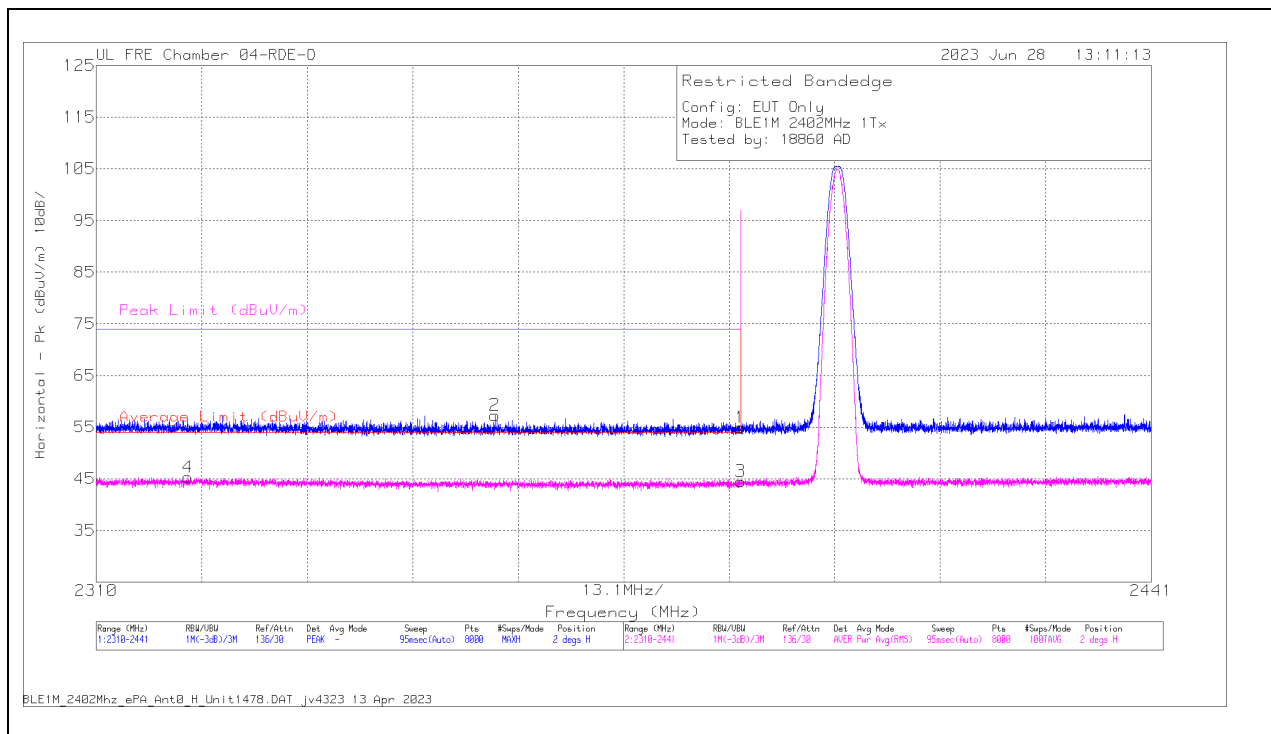
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. HIGH POWER BLE (1Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

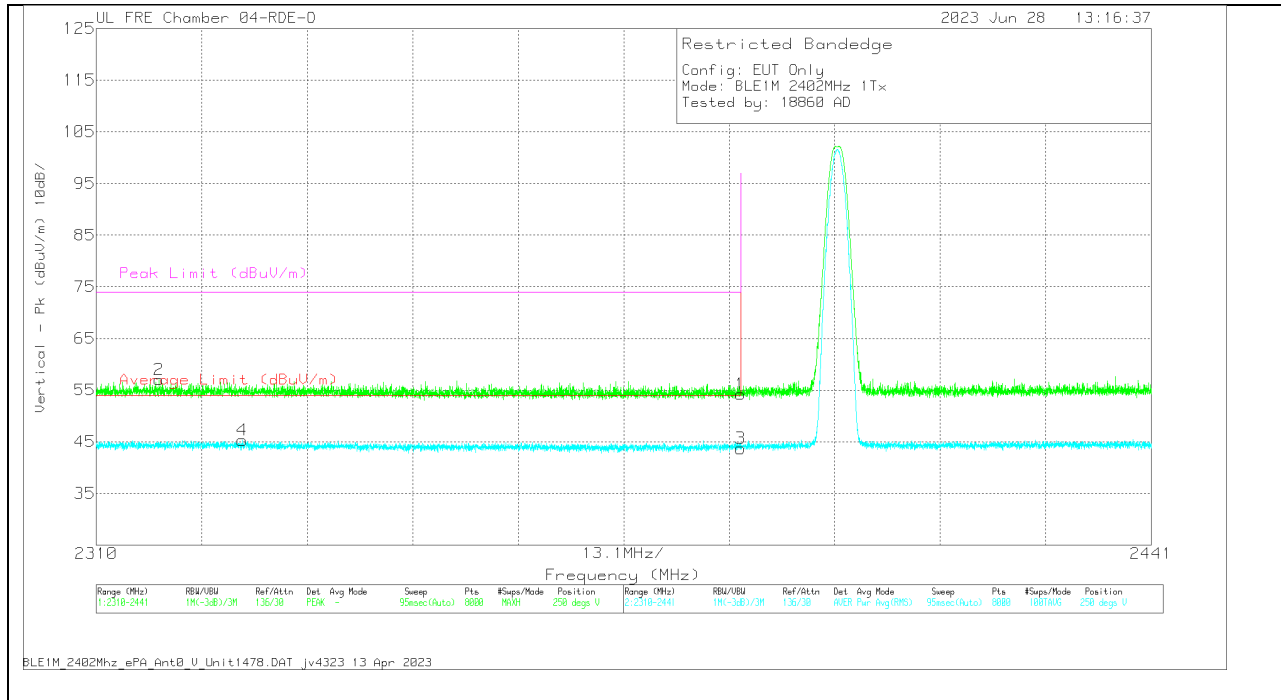


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	60.04	Pk	32.2	-37.35	54.89	-	-	74	-19.11	2	310	H
2	2359.491	62.45	Pk	32.2	-37.36	57.29	-	-	74	-16.71	2	310	H
3	2390	49.65	RMS	32.2	-37.35	44.5	54	-9.5	-	-	2	310	H
4	2321.398	49.96	RMS	32.7	-37.34	45.32	54	-8.68	-	-	2	310	H

Pk - Peak detector

RMS - RMS detection

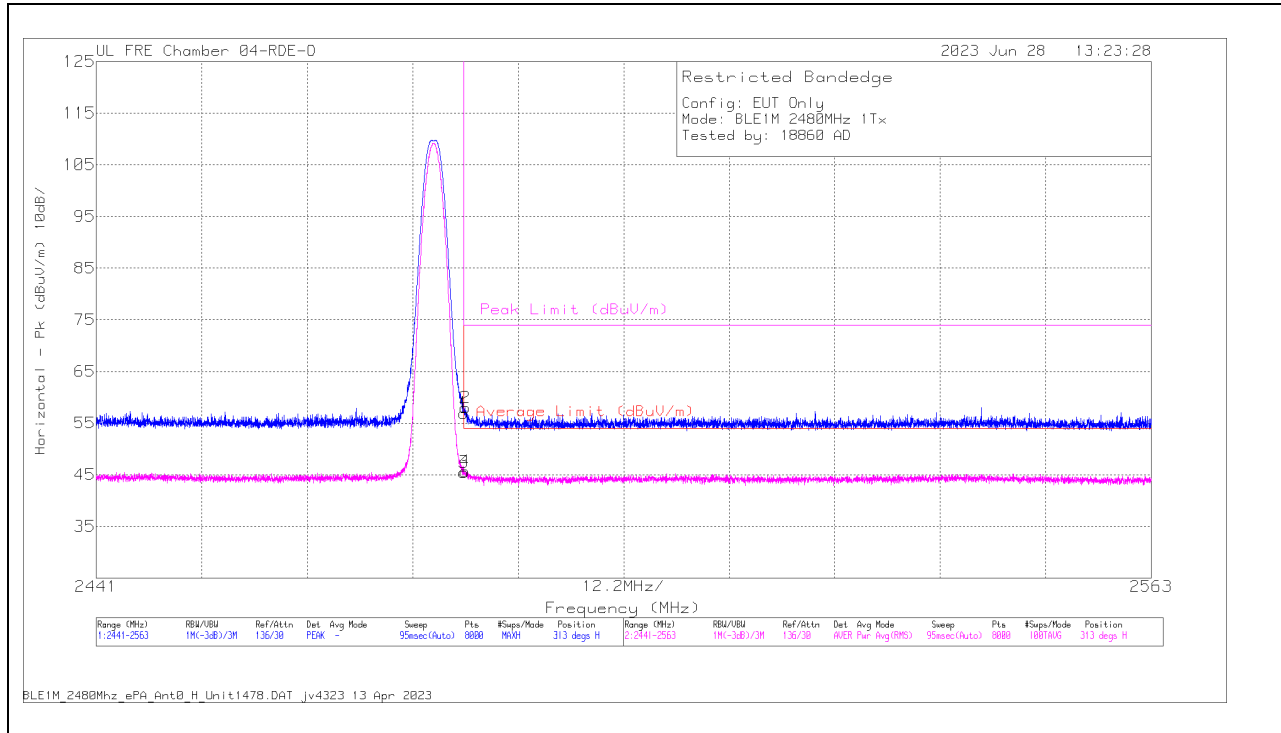
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) -3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	59.36	Pk	32.2	-37.35	54.21	-	-	74	-19.79	250	193	V
2	2317.812	61.63	Pk	32.7	-37.34	56.99	-	-	74	-17.01	250	193	V
3	2390	48.86	RMS	32.2	-37.35	43.71	54	-10.29	-	-	250	193	V
4	2328.129	49.94	RMS	32.7	-37.36	45.28	54	-8.72	-	-	250	193	V

Pk - Peak detector

RMS - RMS detection

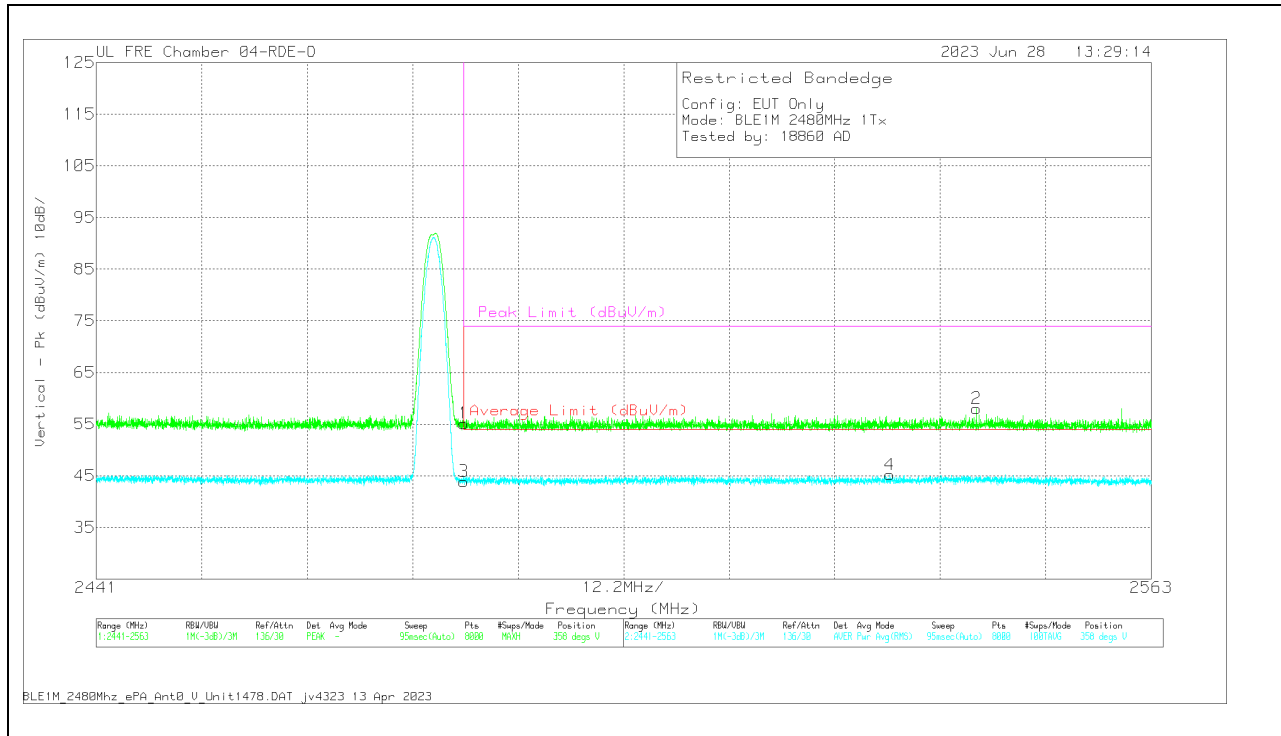
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	61.93	Pk	32.2	-37.2	56.93	-	-	74	-17.07	313	102	H
3	2483.5	50.48	RMS	32.2	-37.2	45.48	54	-8.52	-	-	313	102	H
2	2483.675	62.98	Pk	32.2	-37.2	57.98	-	-	74	-16.02	313	102	H
4	2483.645	50.64	RMS	32.2	-37.2	45.64	54	-8.36	-	-	313	102	H

Pk - Peak detector

RMS - RMS detection

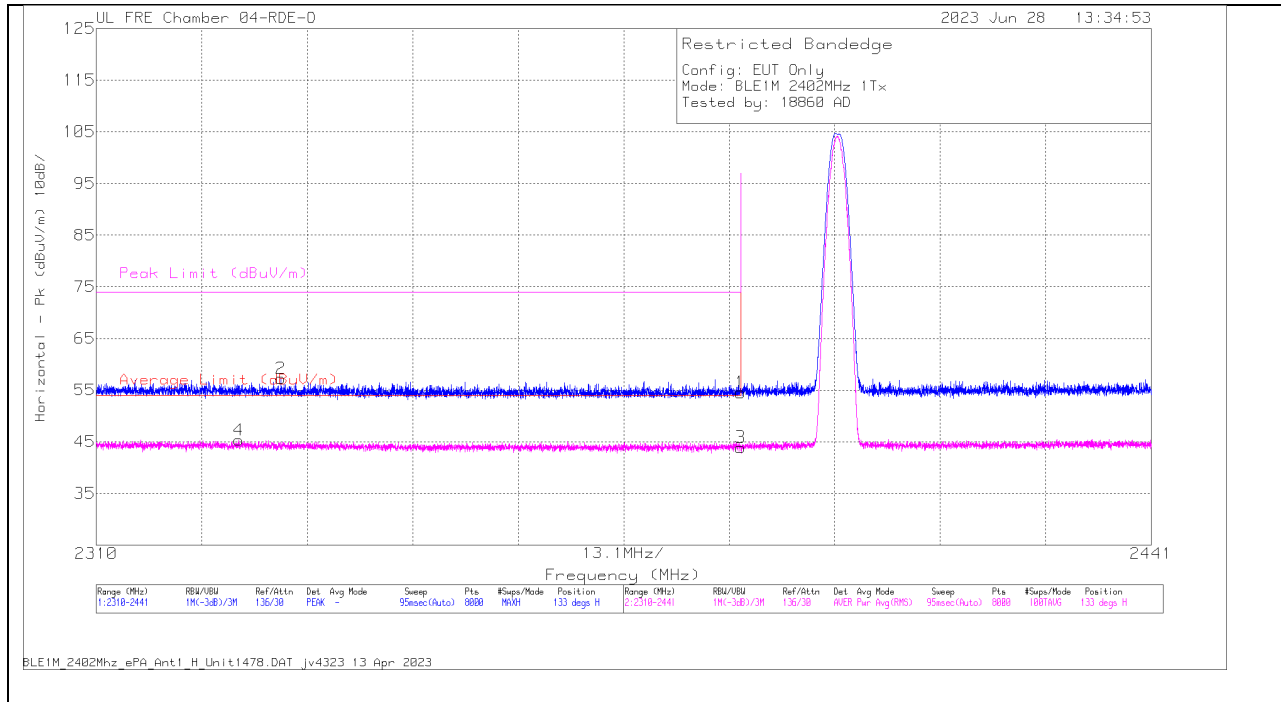
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.13	Pk	32.2	-37.2	55.13	-	-	74	-18.87	358	129	V
3	2483.5	48.88	RMS	32.2	-37.2	43.88	54	-10.12	-	-	358	129	V
2	2542.807	62.81	Pk	32.3	-37.11	58	-	-	74	-16	358	129	V
4	2532.756	50.03	RMS	32.3	-37.13	45.2	54	-8.8	-	-	358	129	V

Pk - Peak detector

RMS - RMS detection

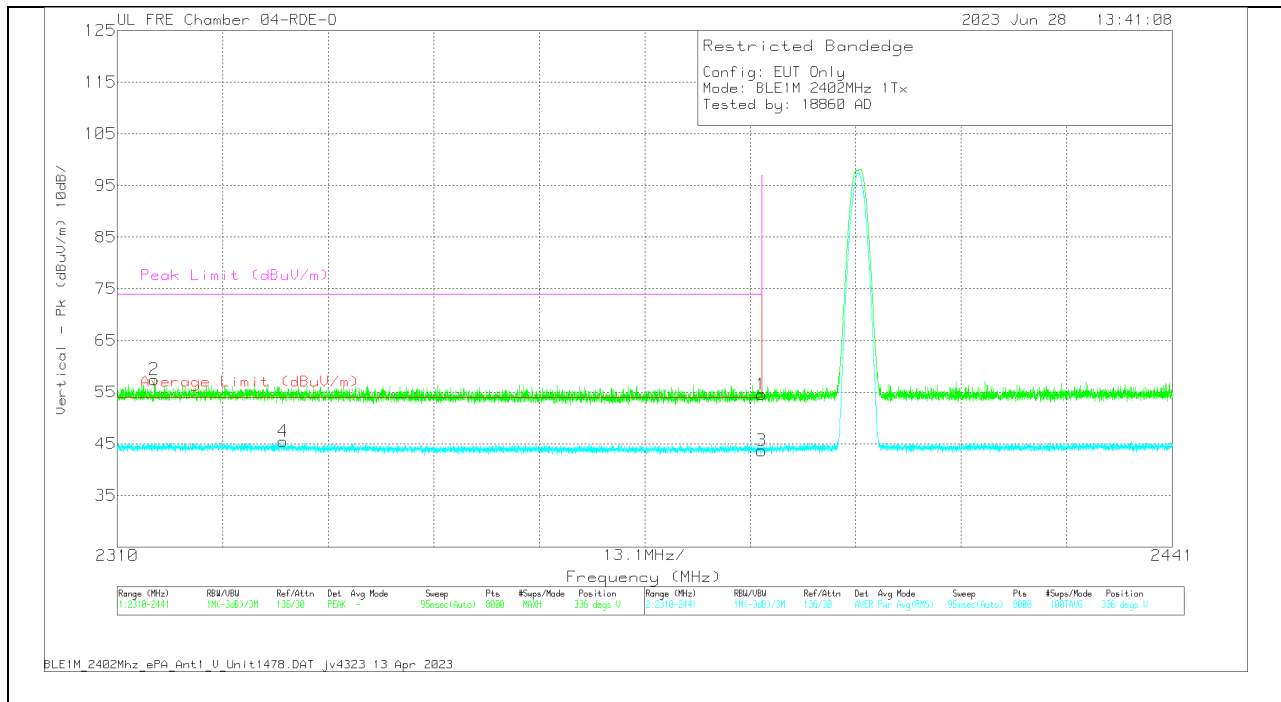
ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	59.69	Pk	32.2	-37.35	54.54	-	-	74	-19.46	133	362	H
2	2332.944	61.99	Pk	32.6	-37.33	57.26	-	-	74	-16.74	133	362	H
3	2390	49.04	RMS	32.2	-37.35	43.89	54	-10.11	-	-	133	362	H
4	2327.704	49.98	RMS	32.7	-37.36	45.32	54	-8.68	-	-	133	362	H

Pk - Peak detector

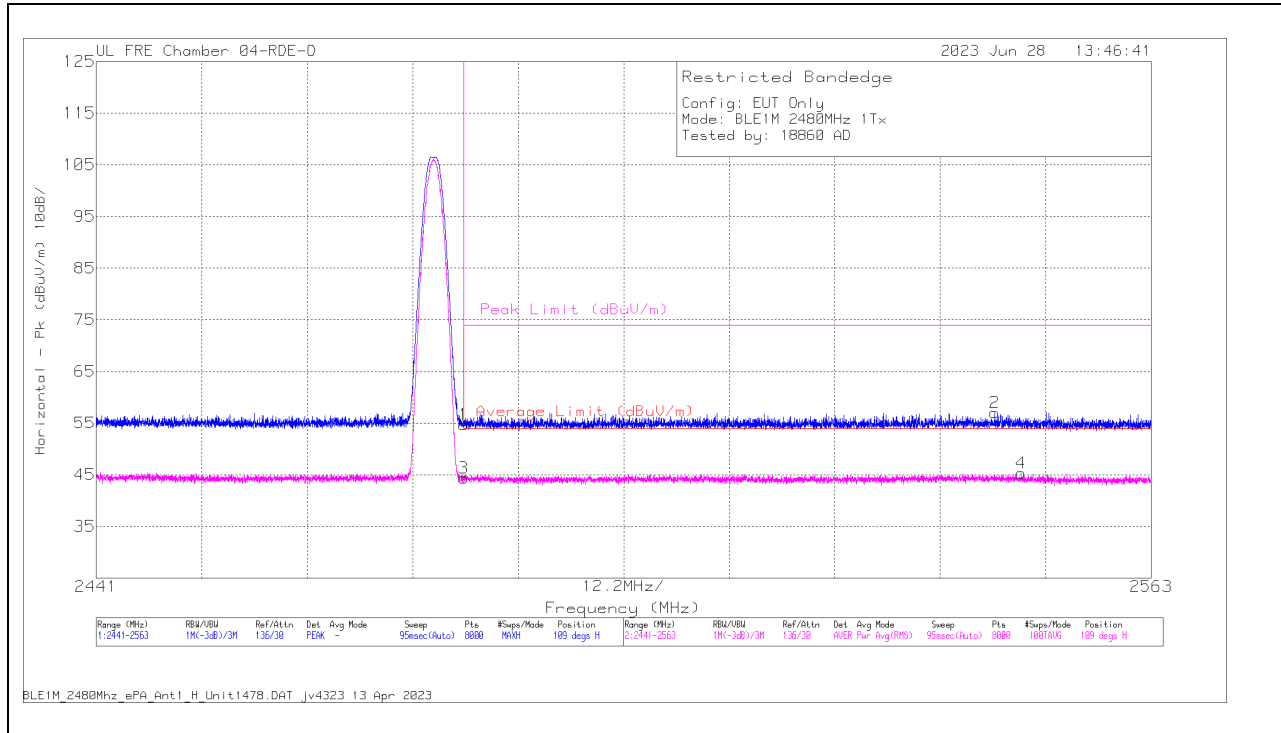
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) -3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	59.72	Pk	32.2	-37.35	54.57	-	-	74	-19.43	336	102	V
2	2314.586	62.14	Pk	32.6	-37.33	57.41	-	-	74	-16.59	336	102	V
3	2390	48.84	RMS	32.2	-37.35	43.69	54	-10.31	-	-	336	100	V
4	2330.602	50.2	RMS	32.6	-37.33	45.47	54	-8.53	-	-	336	100	V

Pk - Peak detector
RMS - RMS detection

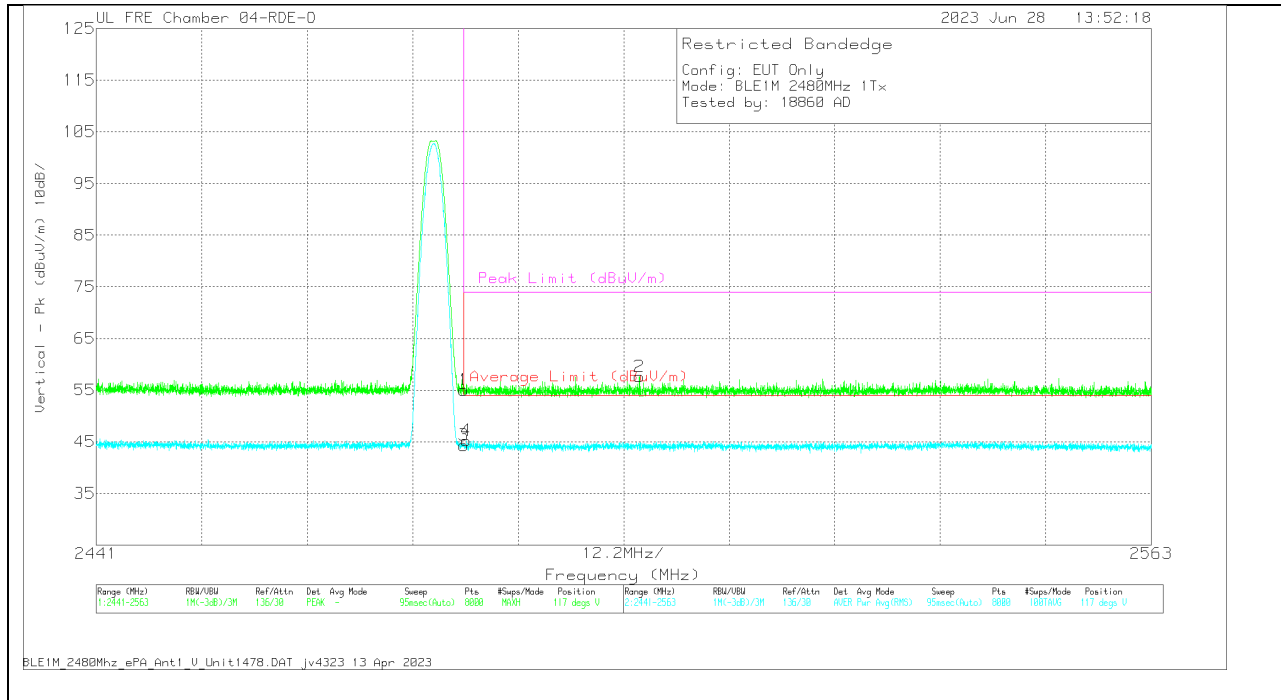
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	59.7	Pk	32.2	-37.2	54.7	-	-	74	-19.3	109	145	H
2	2544.897	61.81	Pk	32.3	-37.09	57.02	-	-	74	-16.98	109	145	H
3	2483.5	49.32	RMS	32.2	-37.2	44.32	54	-9.68	-	-	109	145	H
4	2547.932	50.18	RMS	32.2	-37.07	45.31	54	-8.69	-	-	109	145	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



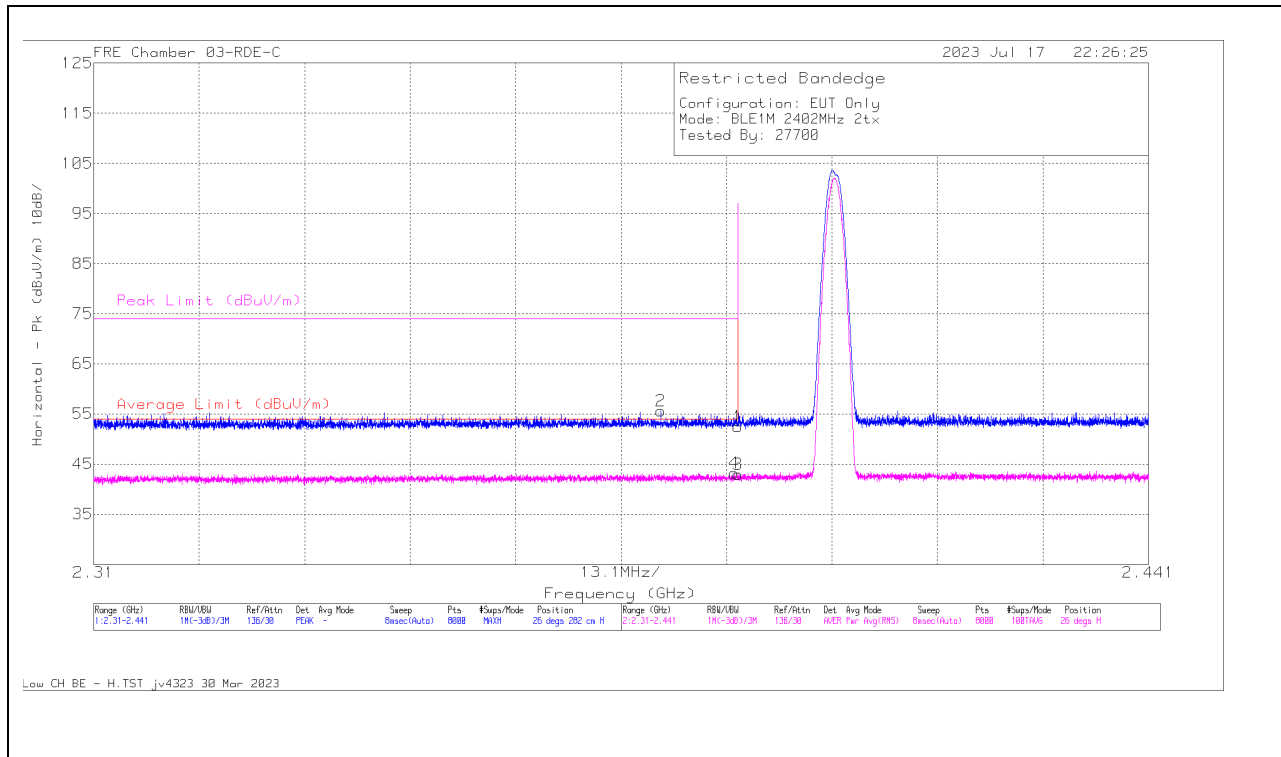
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.03	Pk	32.2	-37.2	55.03	-	-	74	-18.97	117	372	V
2	2503.808	62.58	Pk	32.2	-37.18	57.6	-	-	74	-16.4	117	372	V
3	2483.5	49.31	RMS	32.2	-37.2	44.31	54	-9.69	-	-	117	372	V
4	2483.797	50.2	RMS	32.2	-37.19	45.21	54	-8.79	-	-	117	372	V

Pk - Peak detector
RMS - RMS detection

10.1.2. HIGH POWER BLE TXBF (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



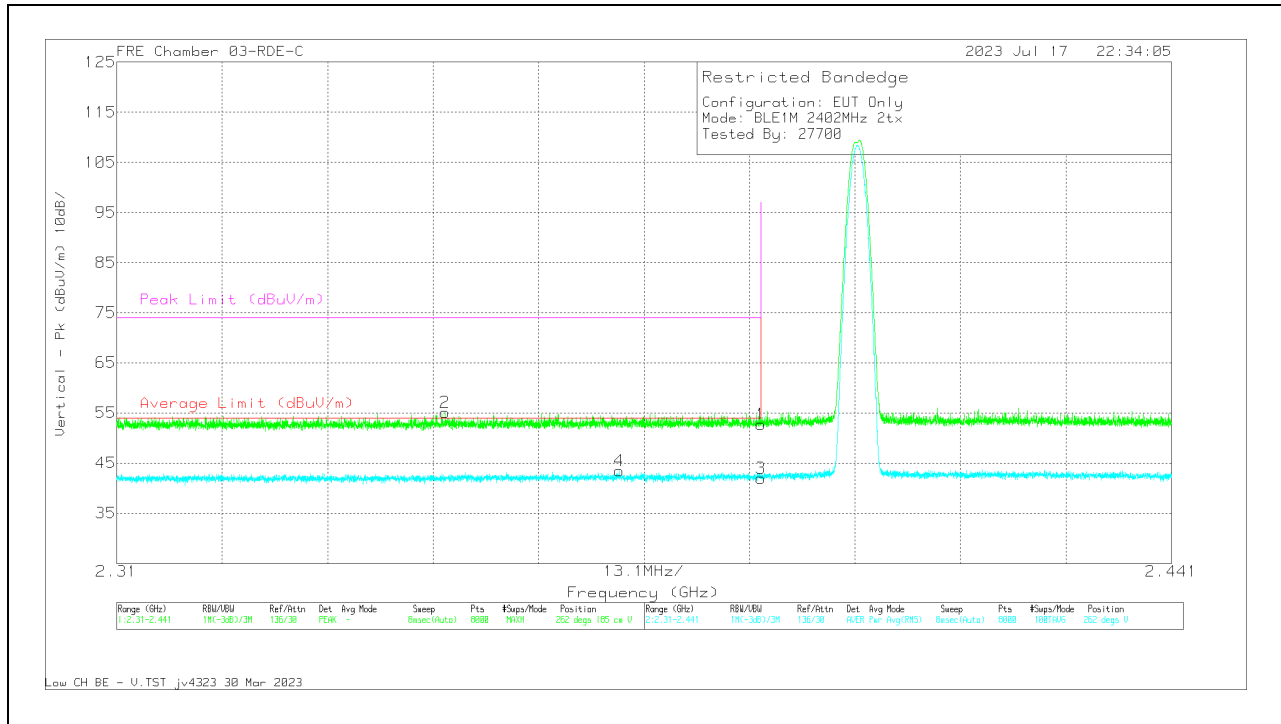
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.19	Pk	32.1	0	-39.8	52.49	-	-	74	-21.51	26	282	H
2	* 2.380421	63.35	Pk	32.1	0	-39.84	55.61	-	-	74	-18.39	26	282	H
3	* 2.39	50.65	RMS	32.1	0	-39.8	42.95	54	-11.05	-	-	26	282	H
4	* 2.389527	50.98	RMS	32.1	0	-39.89	43.19	54	-10.81	-	-	26	282	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

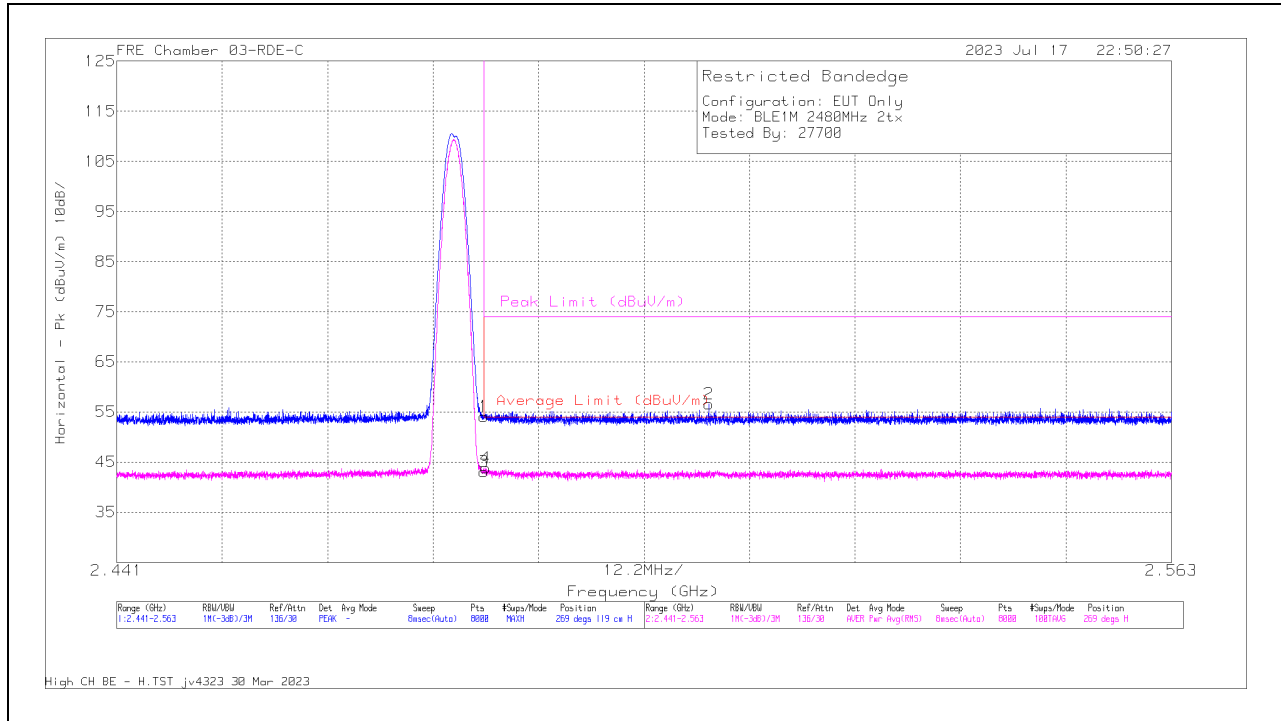


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22667 2 ACF (dB) 3mH	DC CF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.44	Pk	32.1	0	-39.8	52.74	-	-	74	-21.26	262	185	V
2	* 2.350795	63.08	Pk	31.9	0	-39.9	55.08	-	-	74	-18.92	262	185	V
3	* 2.39	49.61	RMS	32.1	0	-39.8	41.91	54	-12.09	-	-	262	185	V
4	* 2.372396	51.33	RMS	32	0	-39.9	43.43	54	-10.57	-	-	262	185	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

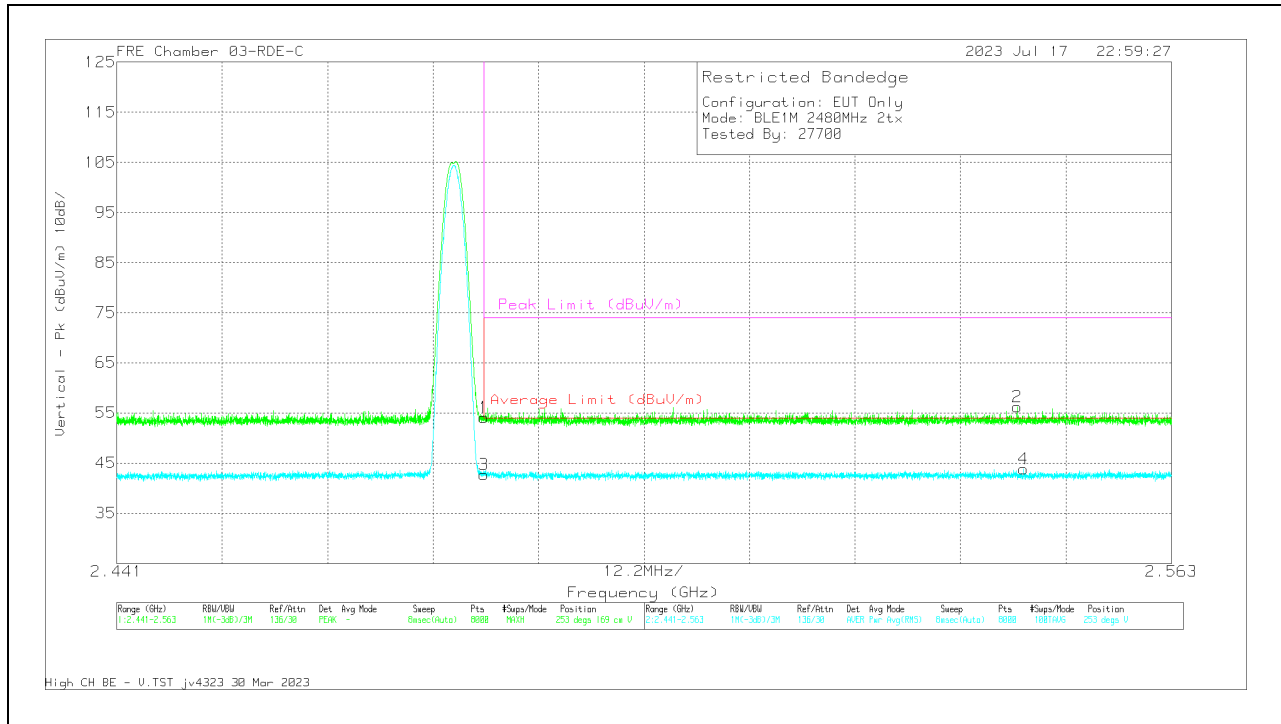
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22667 2 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.51	Pk	32.2	0	-39.6	54.11	-	-	74	-19.89	269	119	H
2	2.509466	63.83	Pk	32.3	0	-39.55	56.58	-	-	74	-17.42	269	119	H
3	* 2.4835	50.45	RMS	32.2	0	-39.6	43.05	54	-10.95	-	-	269	119	H
4	* 2.48369	51.24	RMS	32.2	0	-39.6	43.84	54	-10.16	-	-	269	119	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	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (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	61.54	Pk	32.2	0	-39.6	54.14	-	-	74	-19.86	253	169	V
2	2.545141	63.43	Pk	32.3	0	-39.51	56.22	-	-	74	-17.78	253	169	V
3	* 2.4835	50.13	RMS	32.2	0	-39.6	42.73	54	-11.27	-	-	253	169	V
4	2.545888	51.09	RMS	32.3	0	-39.59	43.8	54	-10.2	-	-	253	169	V

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

Pk - Peak detector

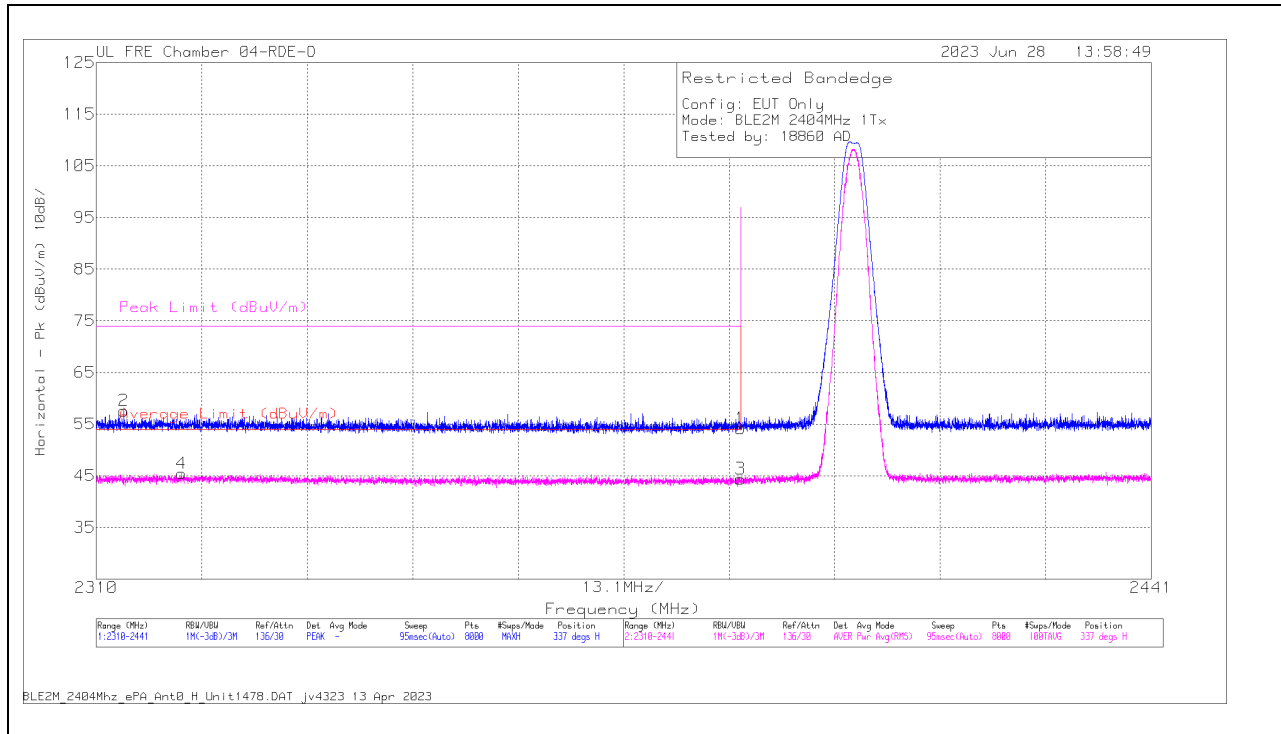
RMS - RMS detection

10.1.3. HIGH POWER BLE (2Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

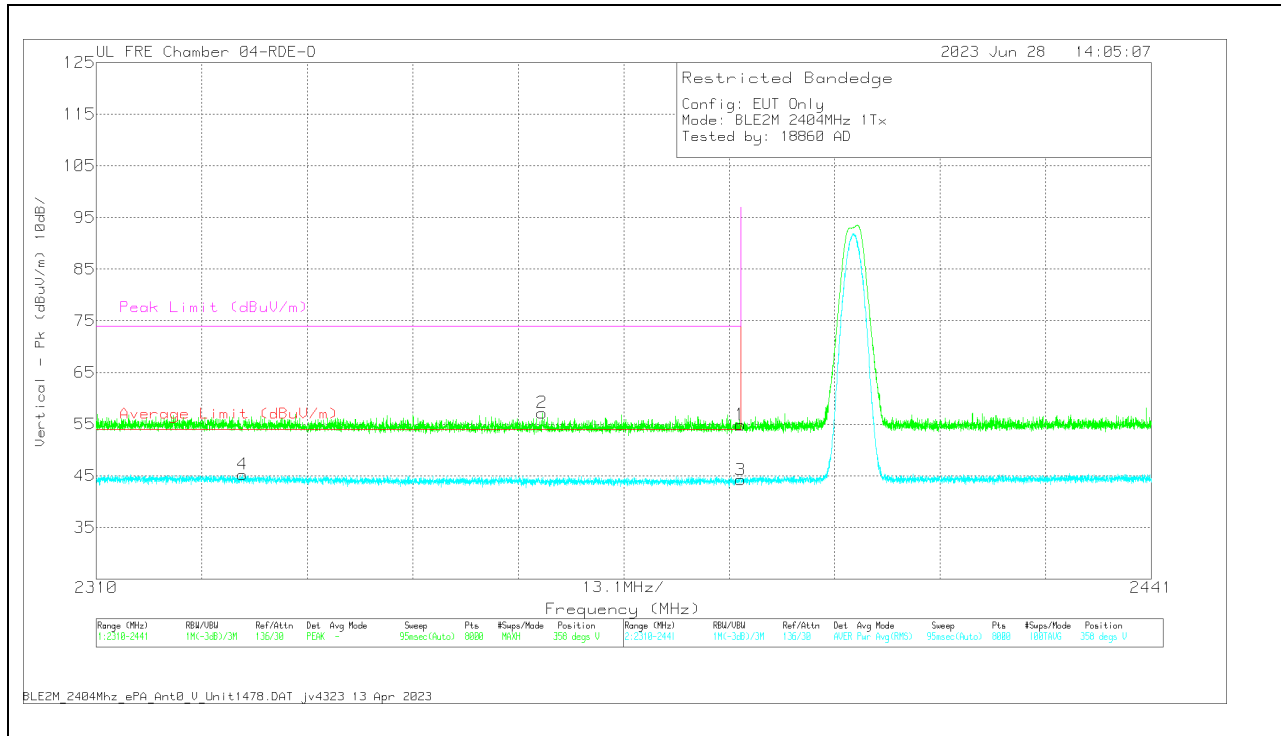


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	59.33	Pk	32.2	-37.35	54.18	-	-	74	-19.82	337	340	H
2	2313.406	62.23	Pk	32.7	-37.35	57.58	-	-	74	-16.42	337	340	H
3	2390	49.54	RMS	32.2	-37.35	44.39	54	-9.61	-	-	337	340	H
4	2320.58	50.09	RMS	32.7	-37.34	45.45	54	-8.55	-	-	337	340	H

Pk - Peak detector

RMS - RMS detection

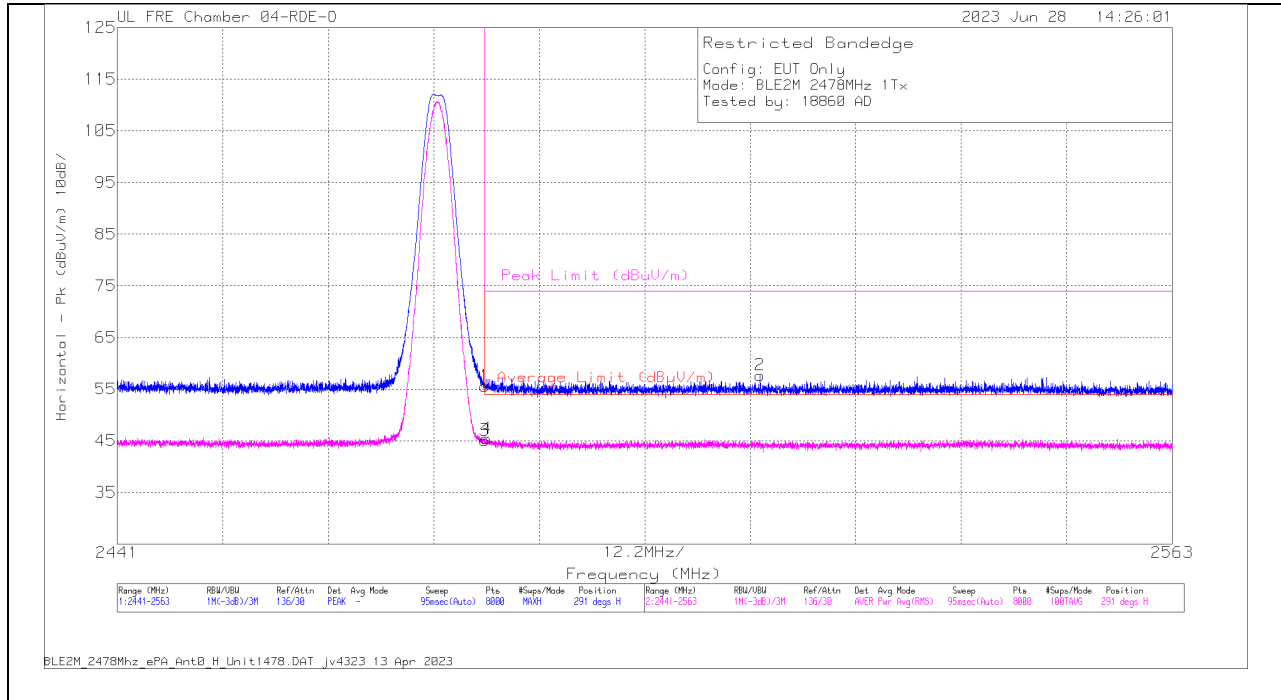
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	59.99	Pk	32.2	-37.35	54.84	-	-	74	-19.16	358	308	V
2	2365.354	62.37	Pk	32.2	-37.38	57.19	-	-	74	-16.81	358	308	V
3	2390	49.36	RMS	32.2	-37.35	44.21	54	-9.79	-	-	358	308	V
4	2328.146	49.92	RMS	32.7	-37.36	45.26	54	-8.74	-	-	358	308	V

Pk - Peak detector

RMS - RMS detection

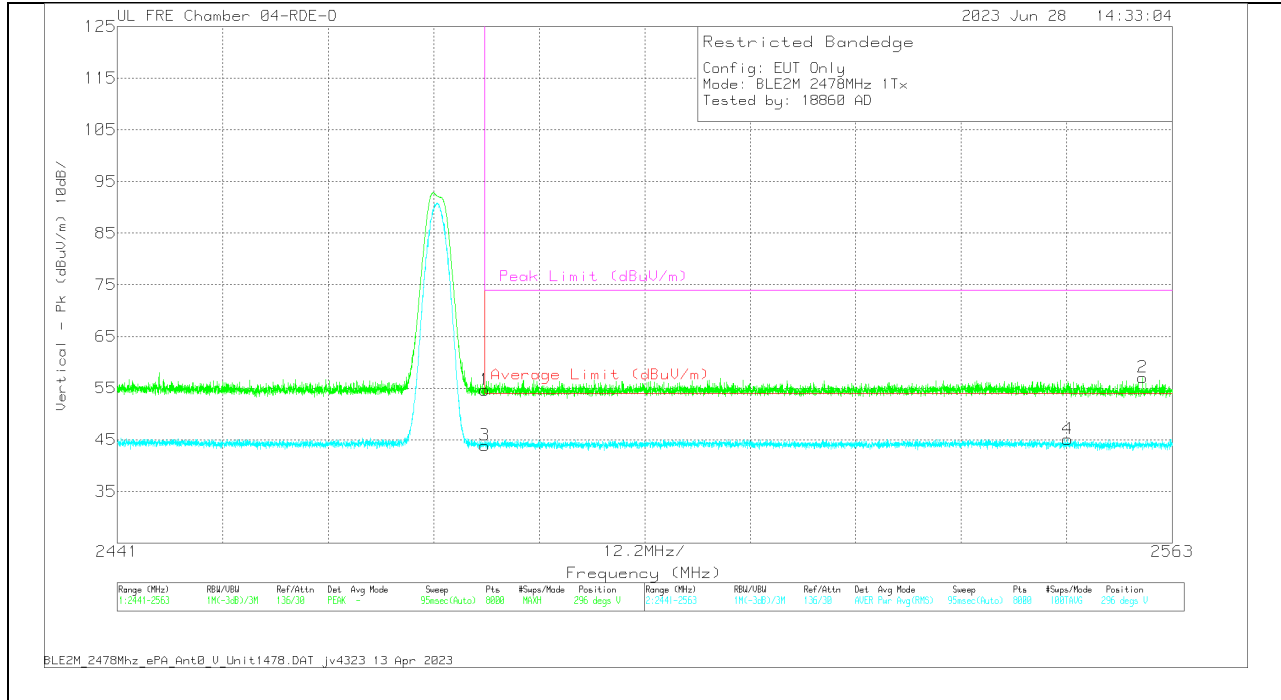
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.57	Pk	32.2	-37.2	55.57	-	-	74	-18.43	291	178	H
3	2483.5	50.11	RMS	32.2	-37.2	45.11	54	-8.89	-	-	291	178	H
4	2483.675	50.44	RMS	32.2	-37.2	45.44	54	-8.56	-	-	291	178	H
2	2515.308	62.51	Pk	32.3	-37.13	57.68	-	-	74	-16.32	291	178	H

Pk - Peak detector

RMS - RMS detection

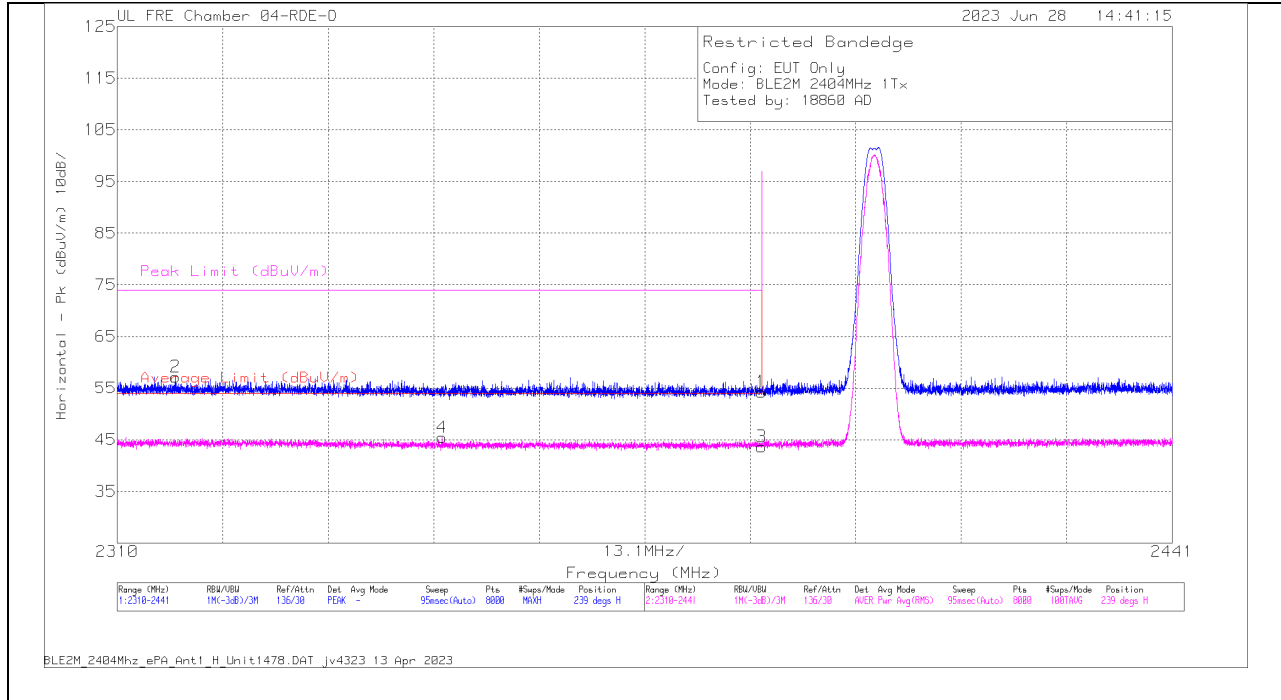
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	59.66	Pk	32.2	-37.2	54.66	-	-	74	-19.34	296	217	V
3	2483.5	48.93	RMS	32.2	-37.2	43.93	54	-10.07	-	-	296	217	V
4	2550.891	50.03	RMS	32.2	-37.09	45.14	54	-8.86	-	-	296	217	V
2	2559.569	62.16	Pk	32	-37.08	57.08	-	-	74	-16.92	296	217	V

Pk - Peak detector

RMS - RMS detection

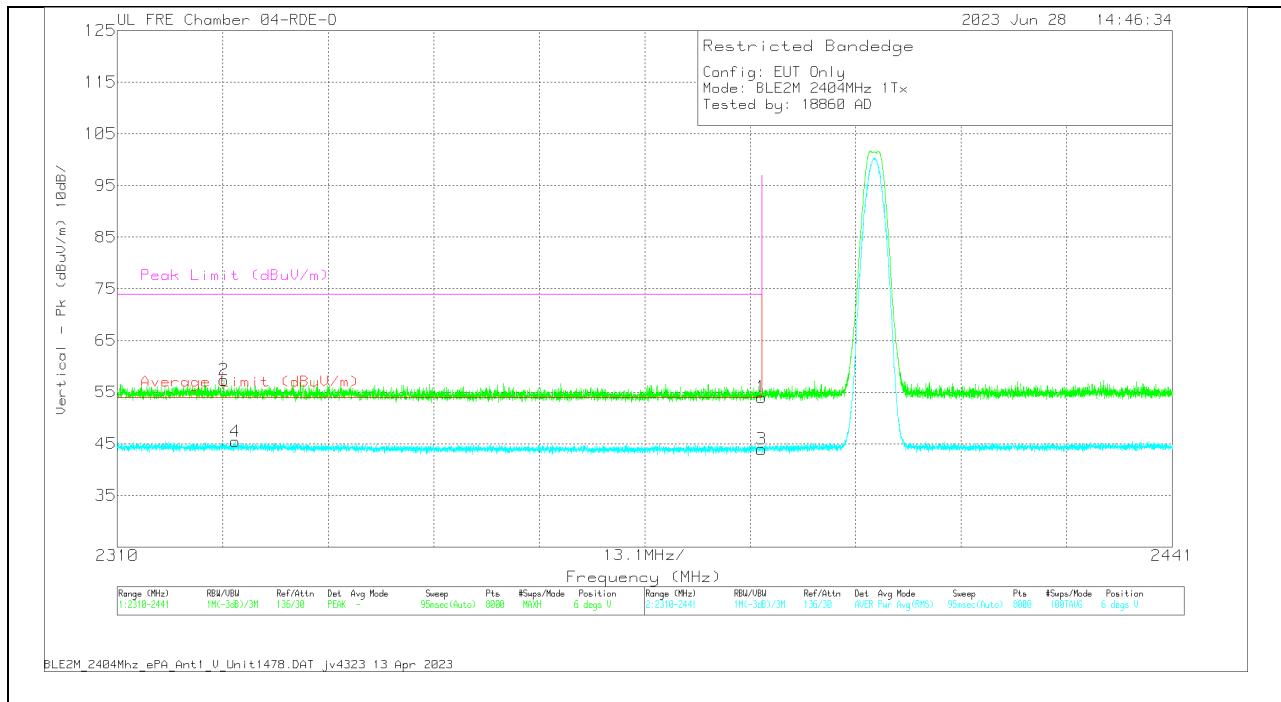
ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2317.271	61.79	Pk	32.7	-37.33	57.16	-	-	74	-16.84	239	178	H
4	2350.337	50.52	RMS	32.3	-37.39	45.43	54	-8.57	-	-	239	178	H
1	2390	59.4	Pk	32.2	-37.35	54.25	-	-	74	-19.75	239	178	H
3	2390	48.78	RMS	32.2	-37.35	43.63	54	-10.37	-	-	239	178	H

Pk - Peak detector

RMS - RMS detection

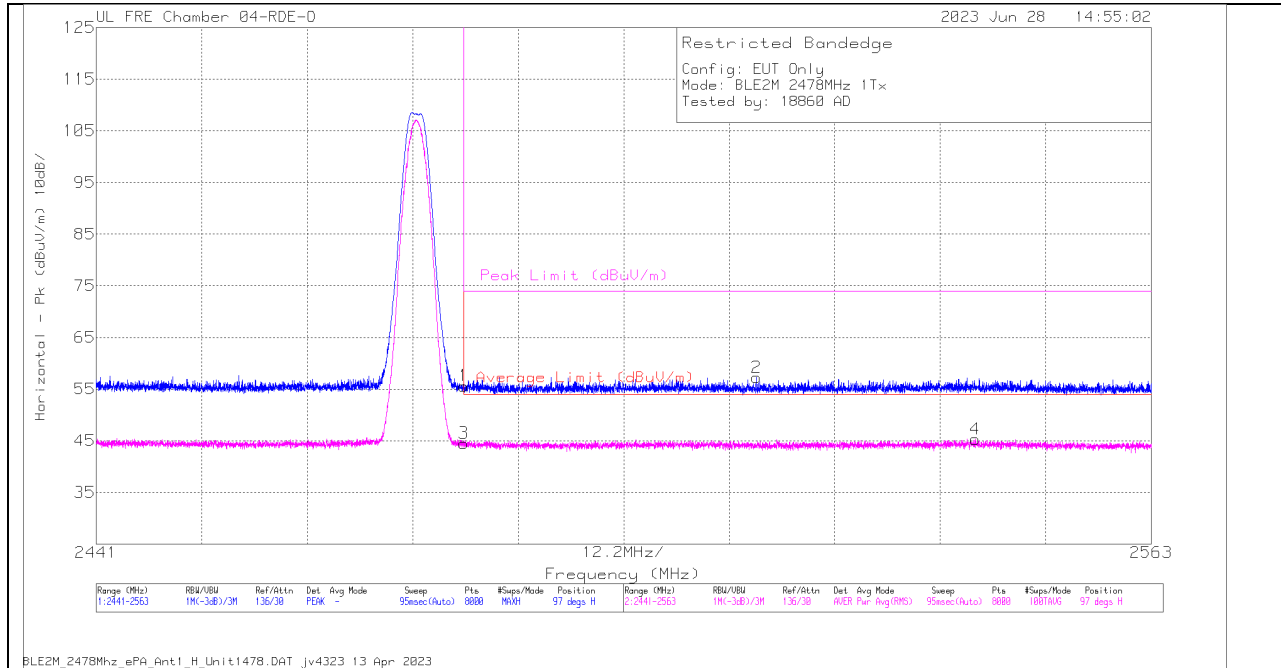
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) -3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2390	59.17	Pk	32.2	-37.35	54.02	-	-	74	-19.98	6	344	V
2	2323.249	61.95	Pk	32.7	-37.32	57.33	-	-	74	-16.67	6	344	V
3	2390	49.09	RMS	32.2	-37.35	43.94	54	-10.06	-	-	6	344	V
4	2324.674	50.07	RMS	32.7	-37.33	45.44	54	-8.56	-	-	6	344	V

Pk - Peak detector

RMS - RMS detection

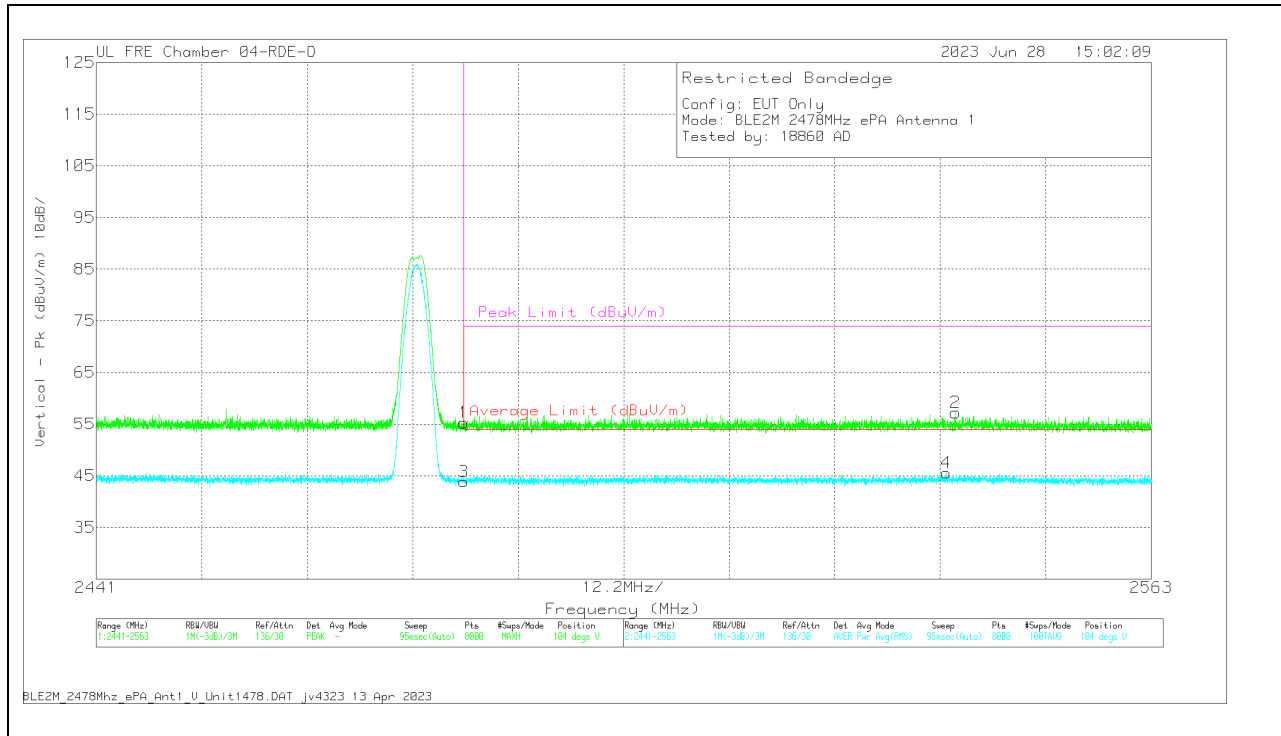
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.61	Pk	32.2	-37.2	55.61	-	-	74	-18.39	97	164	H
2	2517.382	62.16	Pk	32.2	-37.12	57.24	-	-	74	-16.76	97	164	H
3	2483.5	49.51	RMS	32.2	-37.2	44.51	54	-9.49	-	-	97	164	H
4	2542.67	50.1	RMS	32.3	-37.11	45.29	54	-8.71	-	-	97	164	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.26	Pk	32.2	-37.2	55.26	-	-	74	-18.74	104	210	V
2	2540.367	61.91	Pk	32.4	-37.1	57.21	-	-	74	-16.79	104	210	V
3	2483.5	48.86	RMS	32.2	-37.2	43.86	54	-10.14	-	-	104	210	V
4	2539.299	50.25	RMS	32.4	-37.1	45.55	54	-8.45	-	-	104	210	V

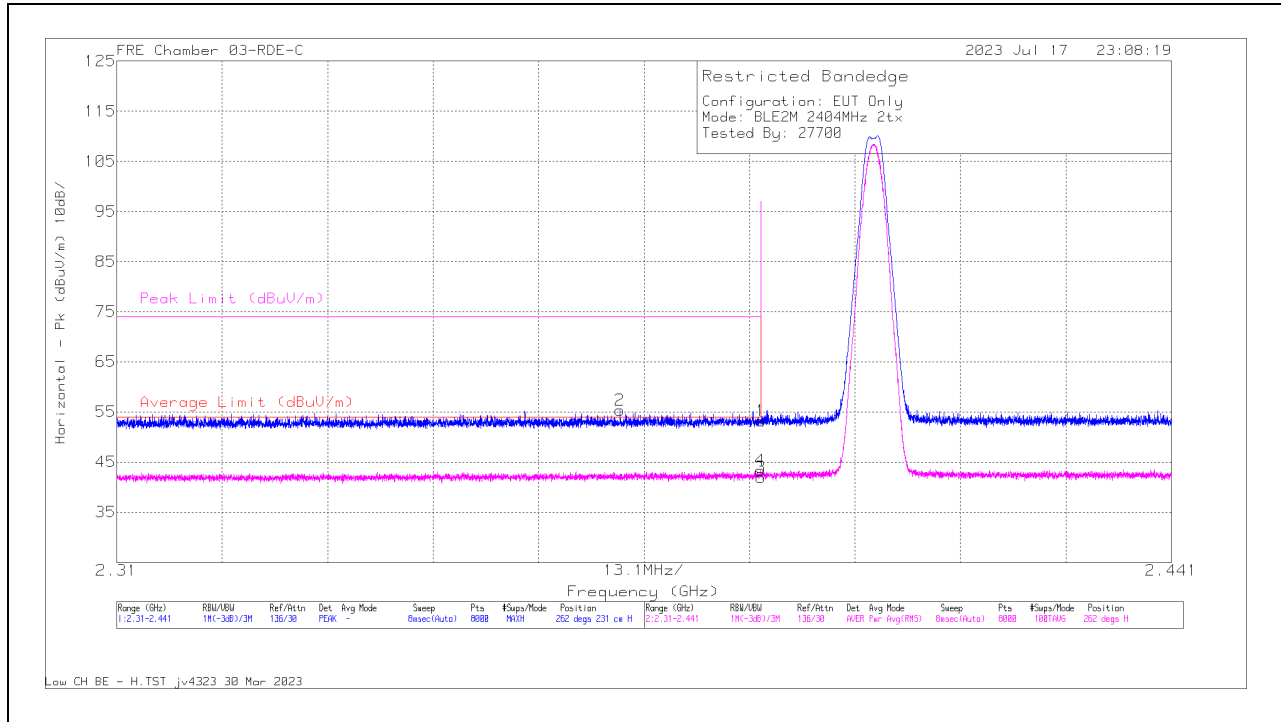
Pk - Peak detector

RMS - RMS detection

10.1.4. HIGH POWER BLE TXBF (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



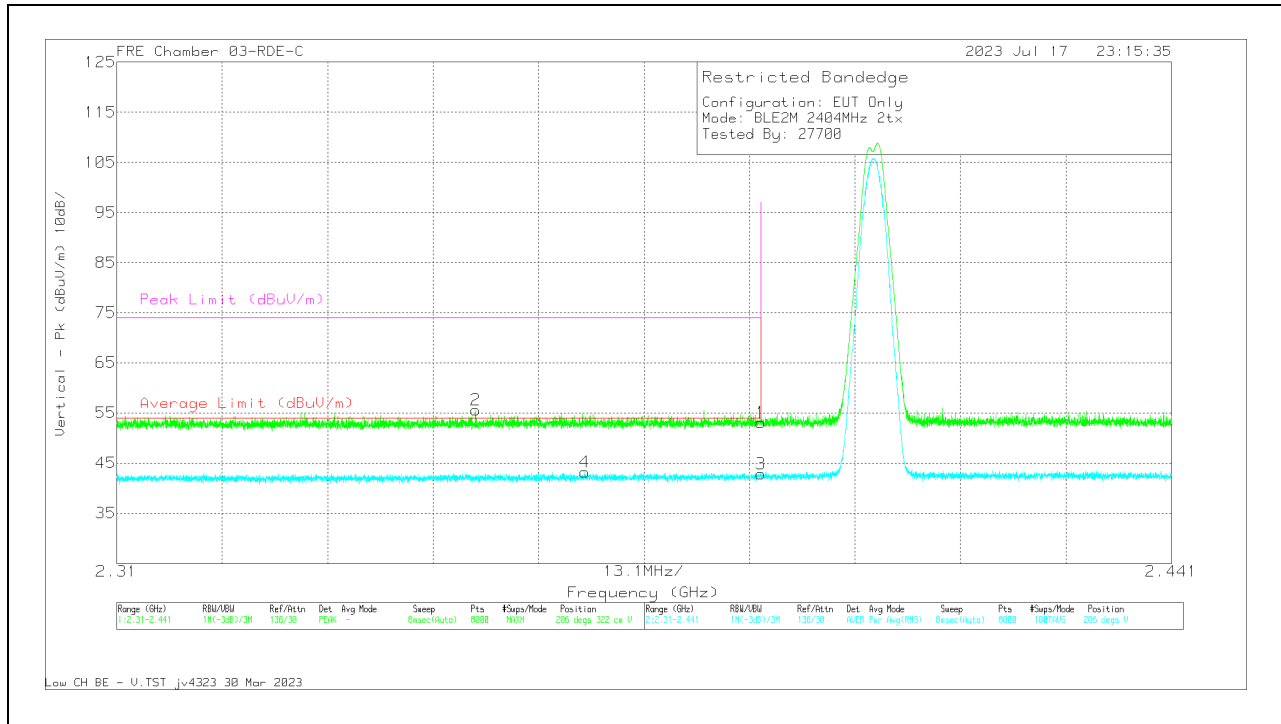
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22667 2 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.94	Pk	32.1	0	-39.8	53.24	-	-	74	-20.76	262	231	H
2	* 2.372495	63.22	Pk	32	0	-39.9	55.32	-	-	74	-18.68	262	231	H
3	* 2.39	49.69	RMS	32.1	0	-39.8	41.99	54	-12.01	-	-	262	231	H
4	* 2.389969	51.03	RMS	32.1	0	-39.81	43.32	54	-10.68	-	-	262	231	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

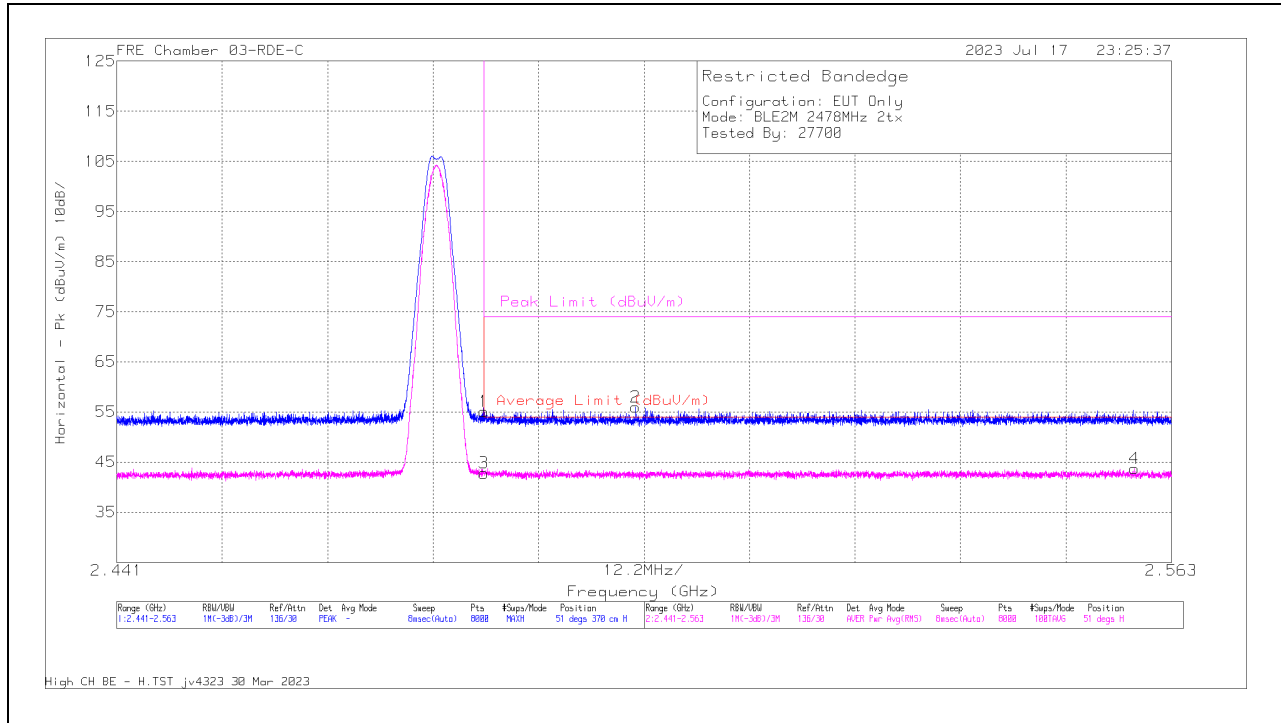


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.79	Pk	32.1	0	-39.8	53.09	-	-	74	-20.91	206	322	V
2	* 2.354595	63.69	Pk	31.9	0	-39.96	55.63	-	-	74	-18.37	206	322	V
3	* 2.39	50.53	RMS	32.1	0	-39.8	42.83	54	-11.17	-	-	206	322	V
4	* 2.368171	51.07	RMS	32	0	-39.88	43.19	54	-10.81	-	-	206	322	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

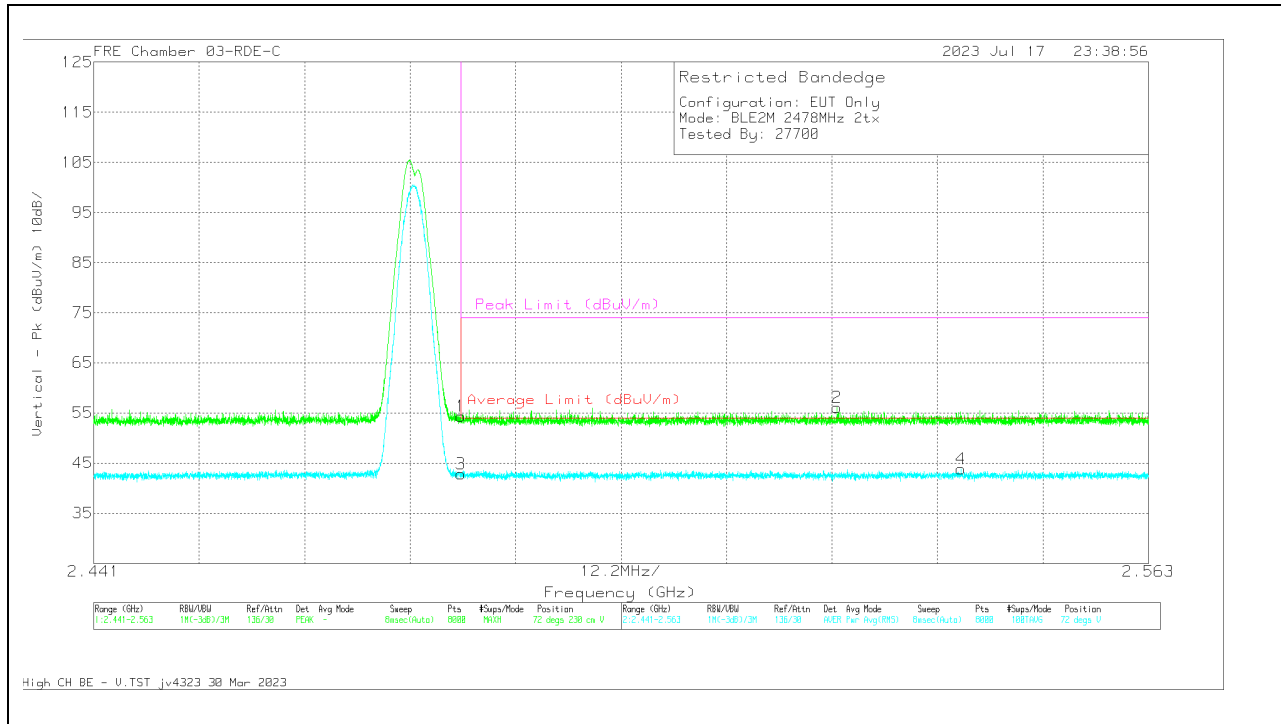
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.45	Pk	32.2	0	-39.6	55.05	-	-	74	-18.95	51	370	H
2	2.501047	63.35	Pk	32.3	0	-39.7	55.95	-	-	74	-18.05	51	370	H
3	* 2.4835	50.18	RMS	32.2	0	-39.6	42.78	54	-11.22	-	-	51	370	H
4	2.55873	50.97	RMS	32.3	0	-39.5	43.77	54	-10.23	-	-	51	370	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	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (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	61.73	Pk	32.2	0	-39.6	54.33	-	-	74	-19.67	72	230	V
2	2.526991	63.41	Pk	32.3	0	-39.6	56.11	-	-	74	-17.89	72	230	V
3	* 2.4835	50.28	RMS	32.2	0	-39.6	42.88	54	-11.12	-	-	72	230	V
4	2.541312	51.08	RMS	32.3	0	-39.53	43.85	54	-10.15	-	-	72	230	V

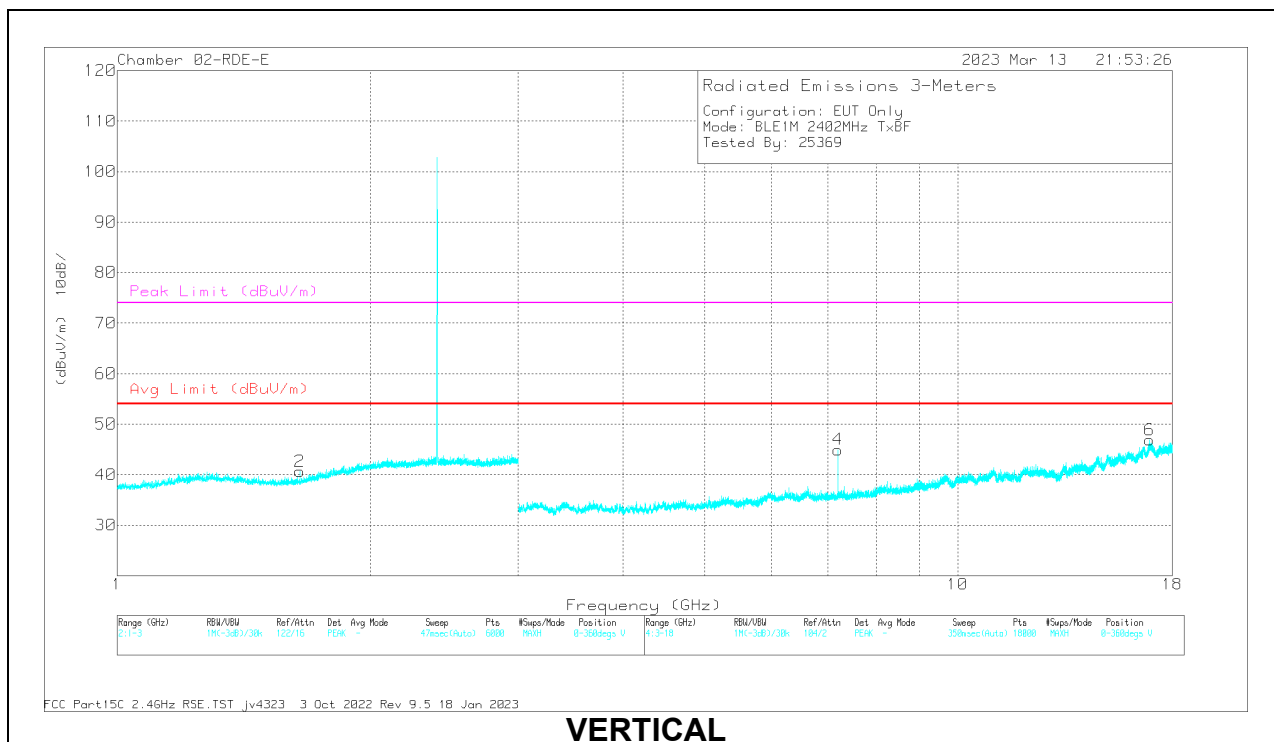
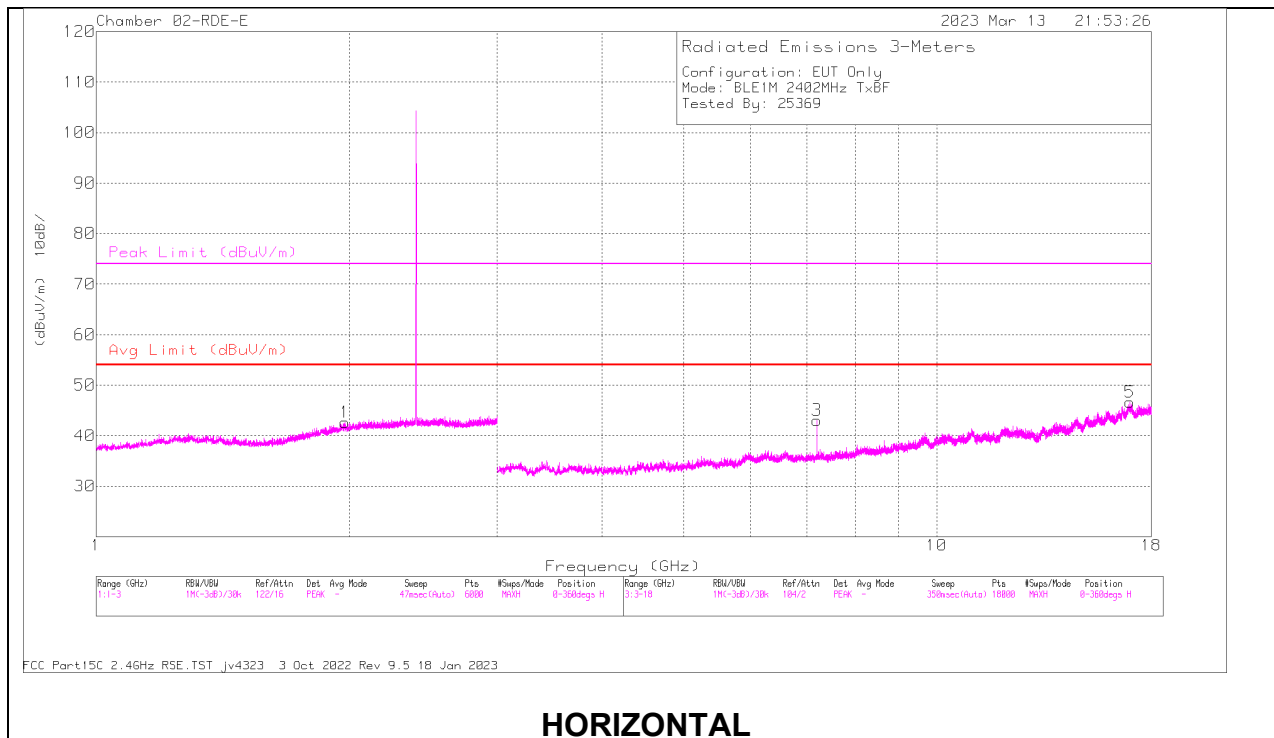
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.5. HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



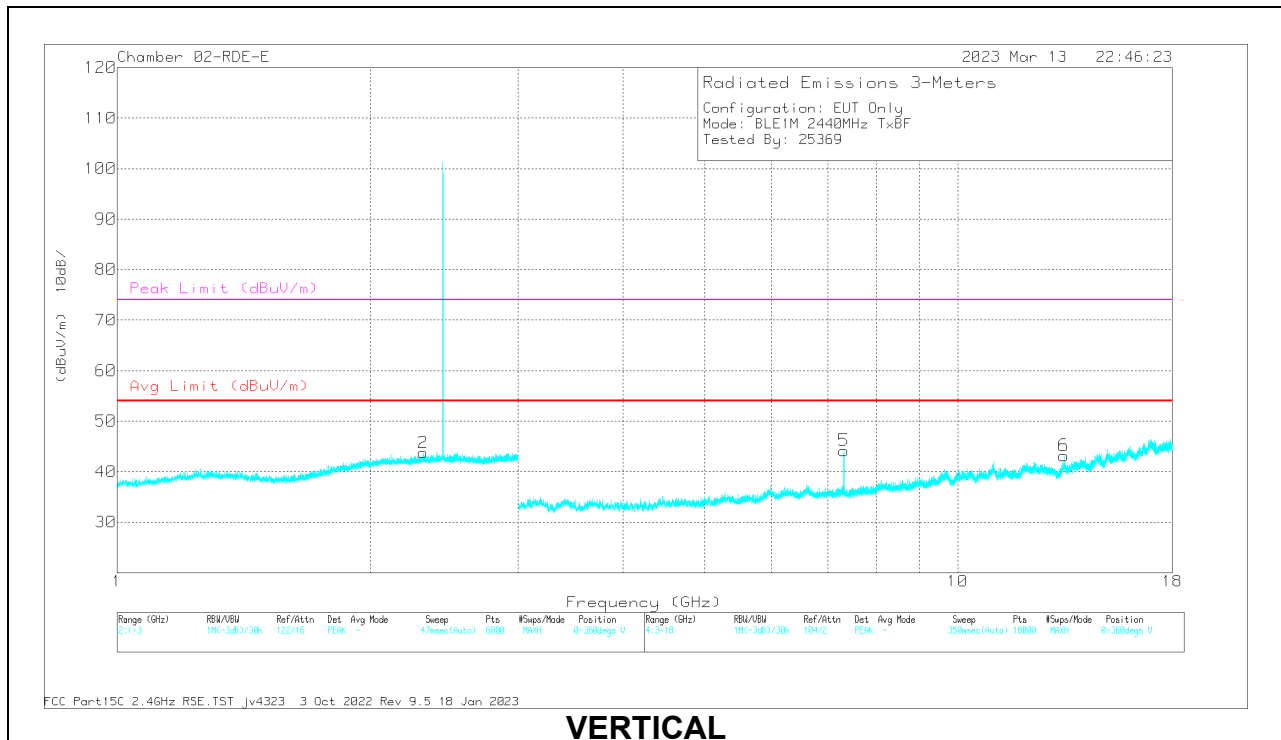
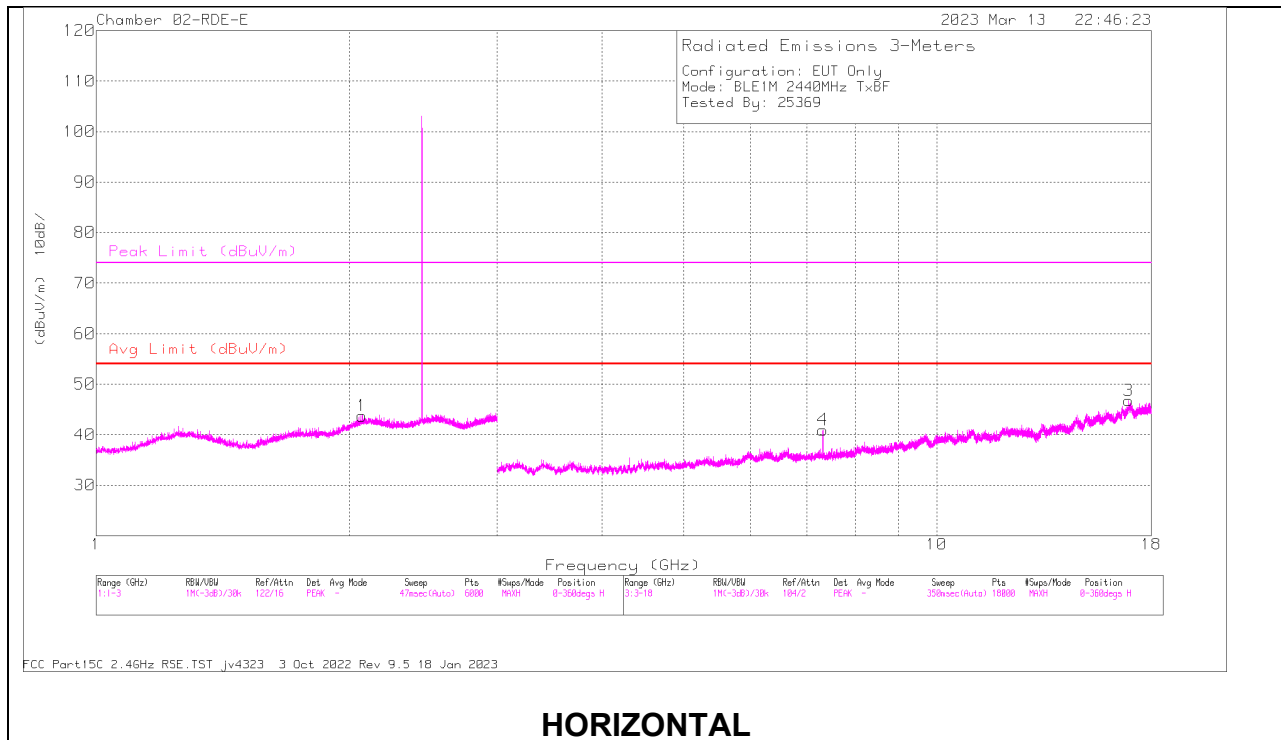
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.646833	60.5	PK2	28.3	-39.36	49.44			74	-24.56	0	101	V
	1.649144	48.64	MAv1	28.4	-39.34	37.7	54	-16.3	-	-	0	101	V
1	1.971944	60.26	PK2	31.1	-39.23	52.13			74	-21.87	0	101	H
	1.979139	48.73	MAv1	31.1	-39.23	40.6	54	-13.4	-	-	0	101	H
4	7.205402	60.96	PK2	35.6	-44.65	51.91			74	-22.09	316	110	V
	7.205113	53.74	MAv1	35.6	-44.66	44.68	54	-9.32	-	-	316	110	V
3	7.205463	59.42	PK2	35.6	-44.65	50.37			74	-23.63	354	282	H
	7.205346	50.78	MAv1	35.6	-44.65	41.73	54	-12.27	-	-	354	282	H
6	16.912882	54.44	PK2	41.7	-40.81	55.33			74	-18.67	316	199	V
	16.911612	43.13	MAv1	41.7	-40.8	44.03	54	-9.97	-	-	316	199	V
5	16.964392	54.05	PK2	41.7	-40.85	54.9			74	-19.1	354	199	H
	16.963888	42.74	MAv1	41.7	-40.85	43.59	54	-10.41	-	-	354	199	H

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



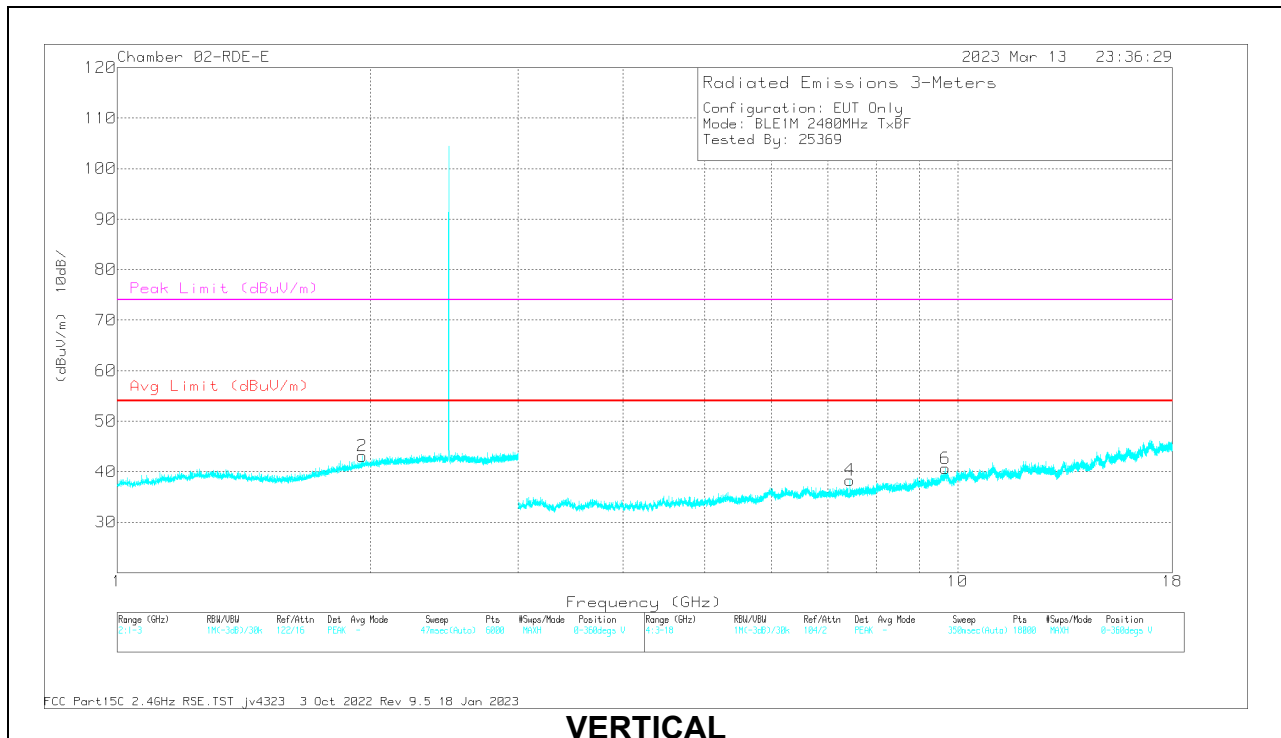
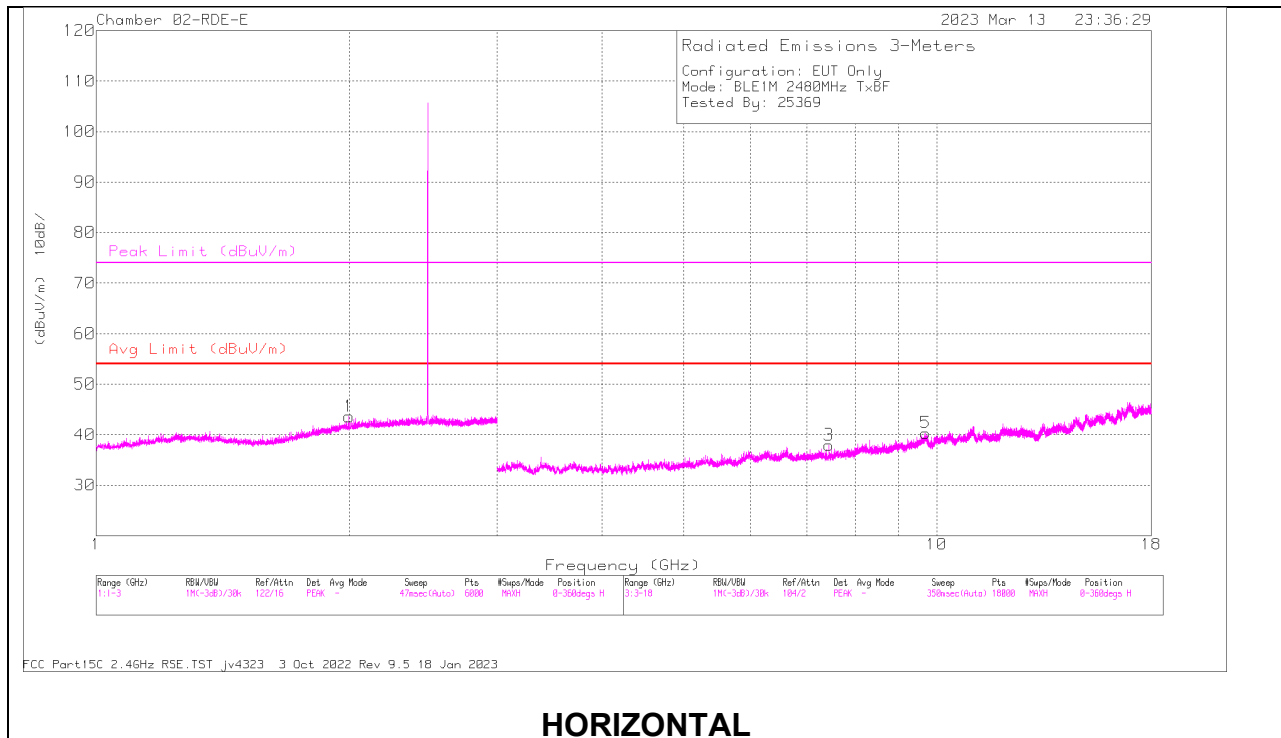
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.314582	60.63	PK2	32.1	-39.34	53.39			74	-20.61	360	200	V
	* 2.31092	48.55	MAv1	32.1	-39.36	41.29	54	-12.71	-	-	360	200	V
4	* 7.319362	59.39	PK2	35.6	-44.95	50.04			74	-23.96	325	105	H
	* 7.319373	50.86	MAv1	35.6	-44.95	41.51	54	-12.49	-	-	325	105	H
5	* 7.319262	59.59	PK2	35.6	-44.95	50.24			74	-23.76	318	246	V
	* 7.319223	51.6	MAv1	35.6	-44.94	42.26	54	-11.74	-	-	318	246	V
6	* 13.37413	54.08	PK2	39	-41.1	51.98			74	-22.02	318	200	V
	* 13.374101	41.98	MAv1	39	-41.1	39.88	54	-14.12	-	-	318	200	V
1	2.07324	59.73	PK2	31.6	-39.11	52.22			74	-21.78	360	101	H
	2.072376	48.27	MAv1	31.6	-39.11	40.76	54	-13.24	-	-	360	101	H
3	16.915759	55.33	PK2	41.7	-40.85	56.18			74	-17.82	360	200	H
	16.914733	43.32	MAv1	41.7	-40.83	44.19	54	-9.81	-	-	360	200	H

* - 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

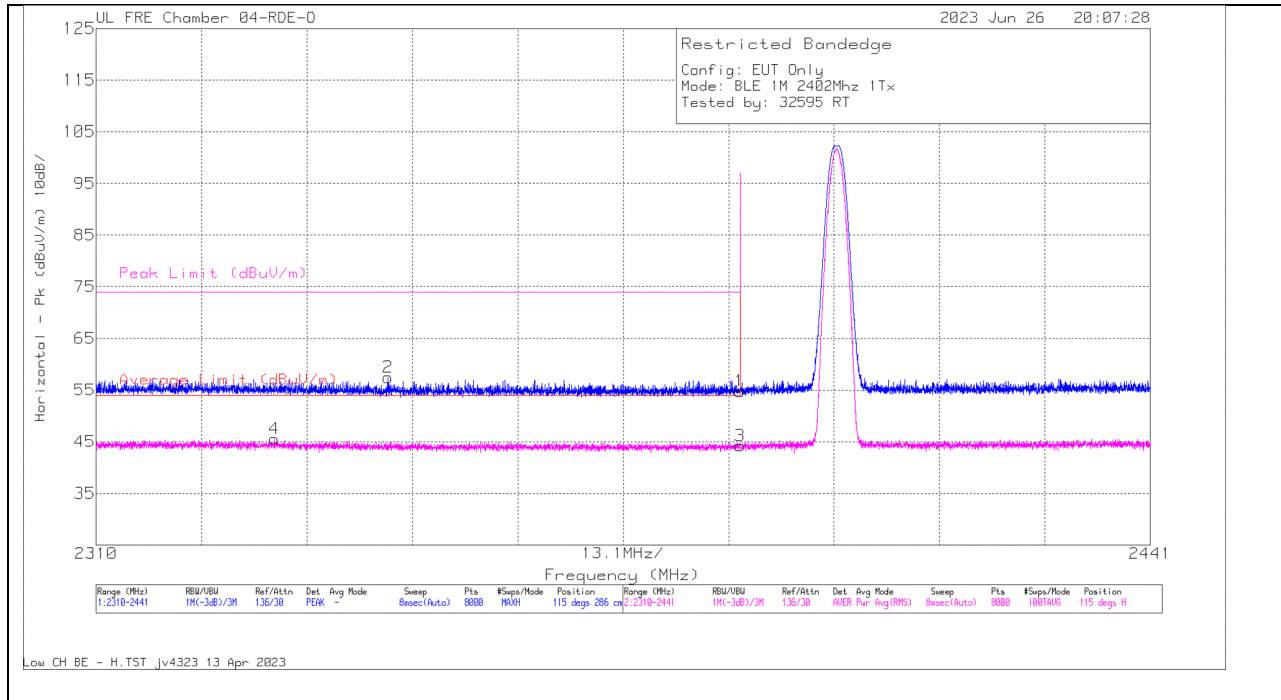
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.440659	57.24	PK2	35.6	-45.46	47.38			74	-26.62	360	101	H
	* 7.439536	46.81	MAv1	35.6	-45.5	36.91	54	-17.09	-	-	360	101	H
4	* 7.439208	58.11	PK2	35.6	-45.52	48.19			74	-25.81	360	199	V
	* 7.440479	47.09	MAv1	35.6	-45.47	37.22	54	-16.78	-	-	360	199	V
2	1.955656	60.81	PK2	31	-39.3	52.51			74	-21.49	360	101	V
	1.954873	48.56	MAv1	31	-39.31	40.25	54	-13.75	-	-	360	101	V
1	1.997304	60.17	PK2	31.1	-39.2	52.07			74	-21.93	360	200	H
	1.997574	48.42	MAv1	31.2	-39.2	40.42	54	-13.58	-	-	360	200	H
6	9.660894	57.04	PK2	36.8	-44.32	49.52			74	-24.48	360	199	V
	9.661999	45.56	MAv1	36.8	-44.34	38.02	54	-15.98	-	-	360	199	V
5	9.706197	57.17	PK2	36.8	-44.23	49.74			74	-24.26	360	199	H
	9.706937	45.62	MAv1	36.8	-44.28	38.14	54	-15.86	-	-	360	199	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.1.6. LOW POWER BLE (1Mbps)

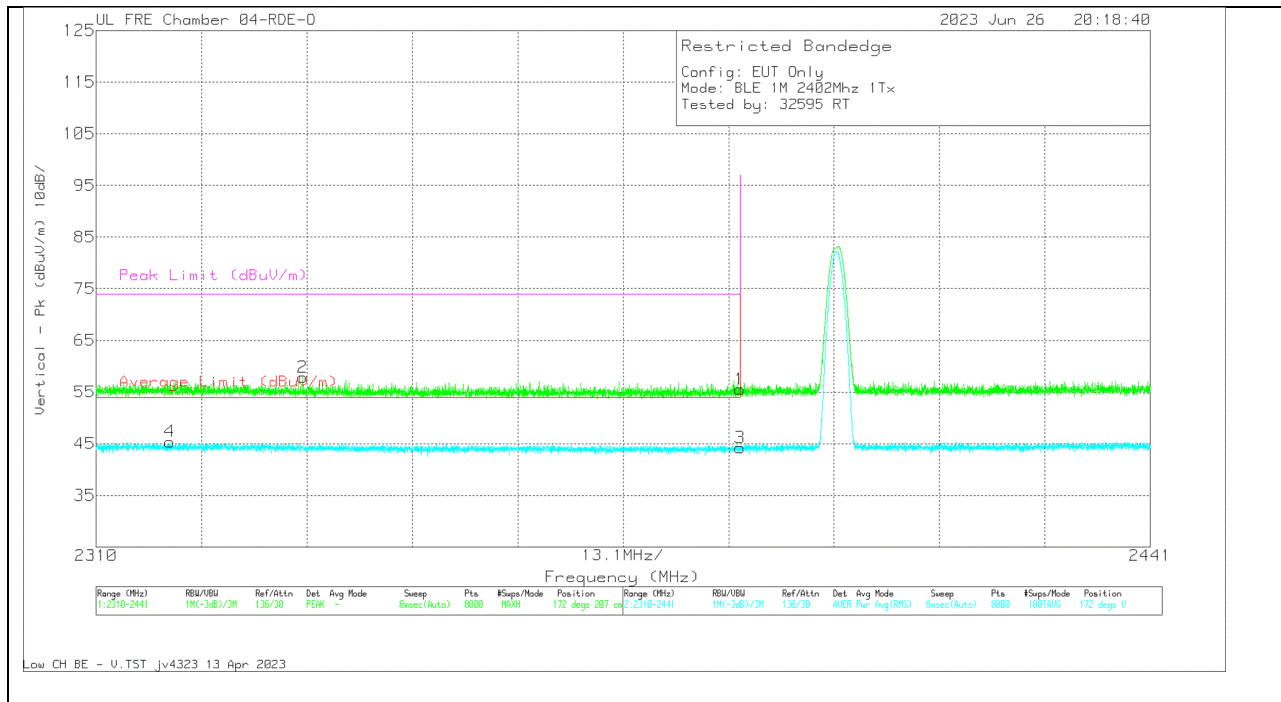
ANT 4**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	GainLoss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
4	2332.142	50.26	RMS	32.6	0	-37.32	45.54	54	-8.46	-	-	115	286	H
2	2346.259	62.51	Pk	32.3	0	-37.36	57.45	-	-	74	-16.55	115	286	H
1	2390	59.92	Pk	32.2	0	-37.35	54.77	-	-	74	-19.23	115	286	H
3	2390	49.38	RMS	32.2	0	-37.35	44.23	54	-9.77	-	-	115	286	H

Pk - Peak detector

RMS - RMS detection

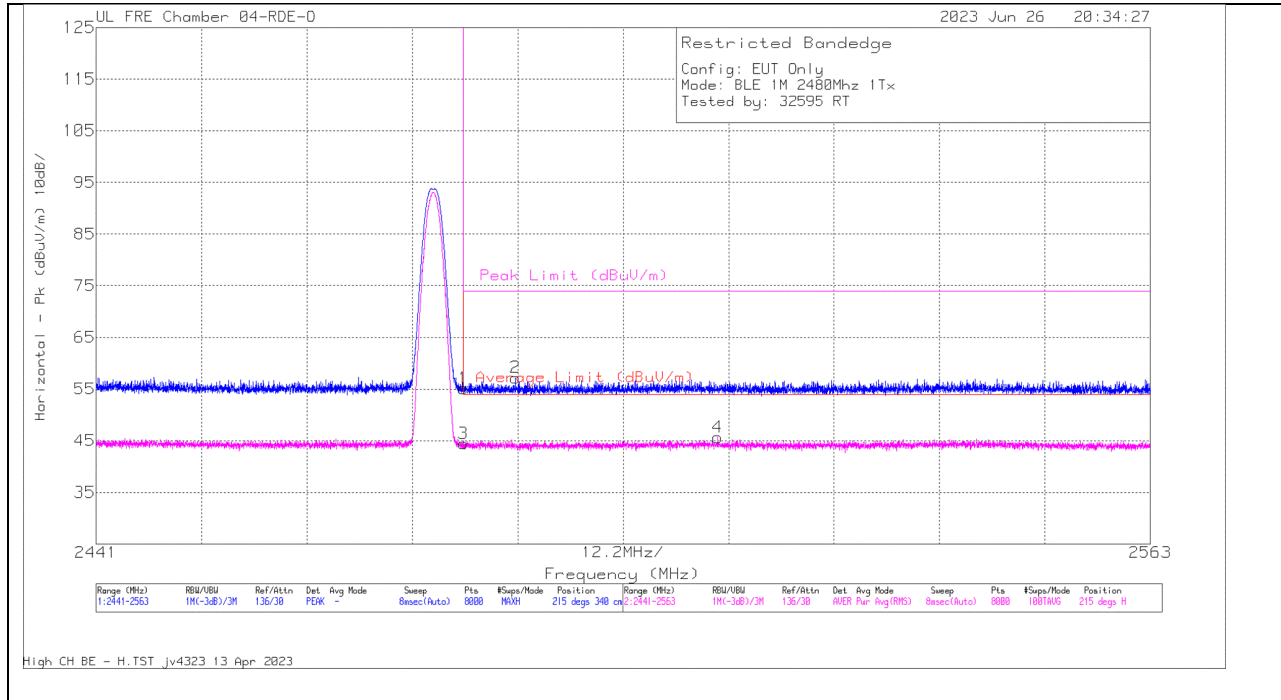
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2319.155	50.13	RMS	32.6	0	-37.35	45.38	54	-8.62	-	-	172	207	V
2	2335.679	62.69	Pk	32.5	0	-37.33	57.86	-	-	74	-16.14	172	207	V
1	2390	60.68	Pk	32.2	0	-37.35	55.53	-	-	74	-18.47	172	207	V
3	2390	49.38	RMS	32.2	0	-37.35	44.23	54	-9.77	-	-	172	207	V

Pk - Peak detector

RMS - RMS detection

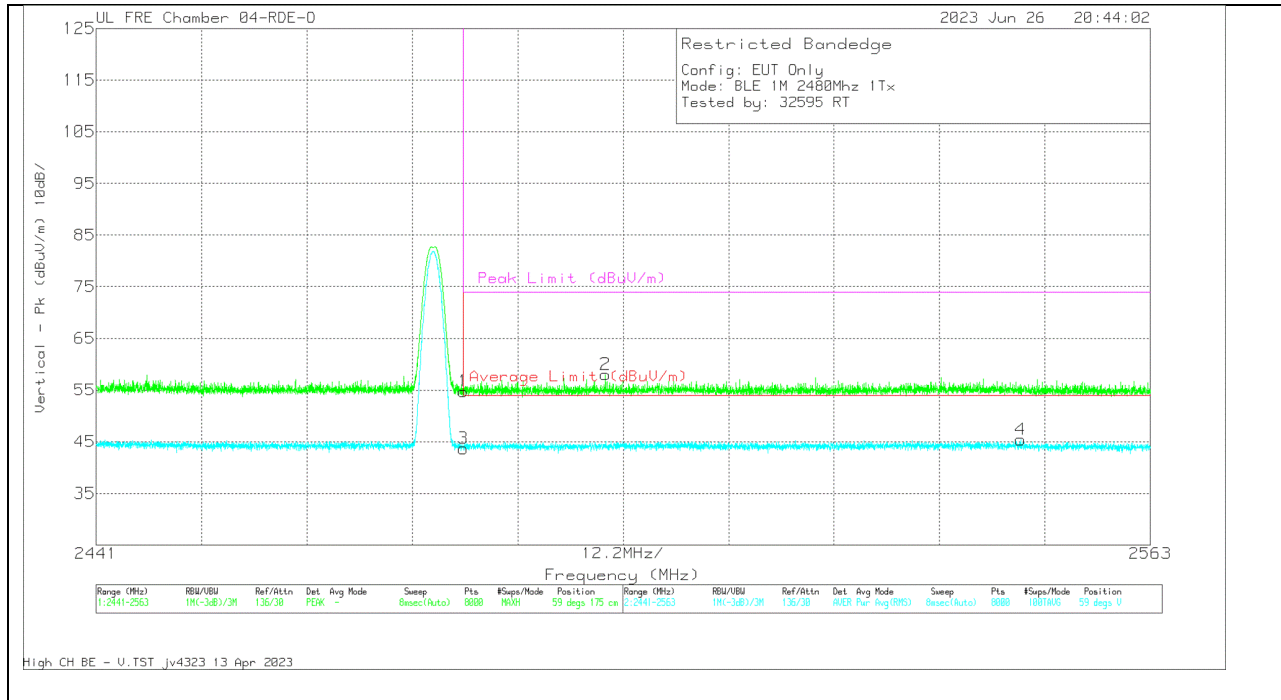
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.14	PK	32.2	0	-37.2	55.14	-	-	74	-18.86	215	340	H
3	2483.5	49.45	RMS	32.2	0	-37.2	44.45	54	-9.55	-	-	215	340	H
2	2489.517	62.28	PK	32.1	0	-37.19	57.19	-	-	74	-16.81	215	340	H
4	2512.928	50.49	RMS	32.3	0	-37.15	45.64	54	-8.36	-	-	215	340	H

Pk - Peak detector

RMS - RMS detection

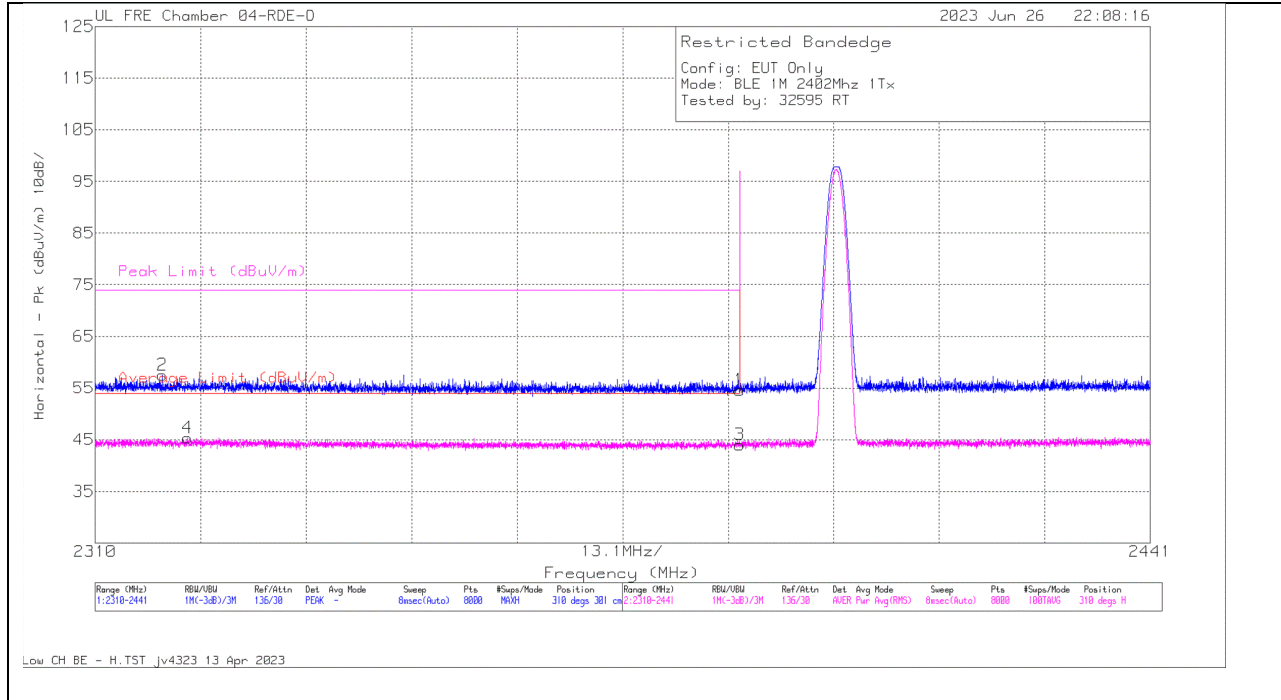
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	2483.5	59.76	Pk	32.2	0	-37.2	54.76	-	-	74	-19.24	59	175	V
3	2483.5	48.69	RMS	32.2	0	-37.2	43.69	54	-10.31	-	-	59	175	V
2	2499.949	62.96	Pk	32.2	0	-37.14	58.02	-	-	74	-15.98	59	175	V
4	2547.993	50.27	RMS	32.2	0	-37.07	45.4	54	-8.6	-	-	59	175	V

Pk - Peak detector

RMS - RMS detection

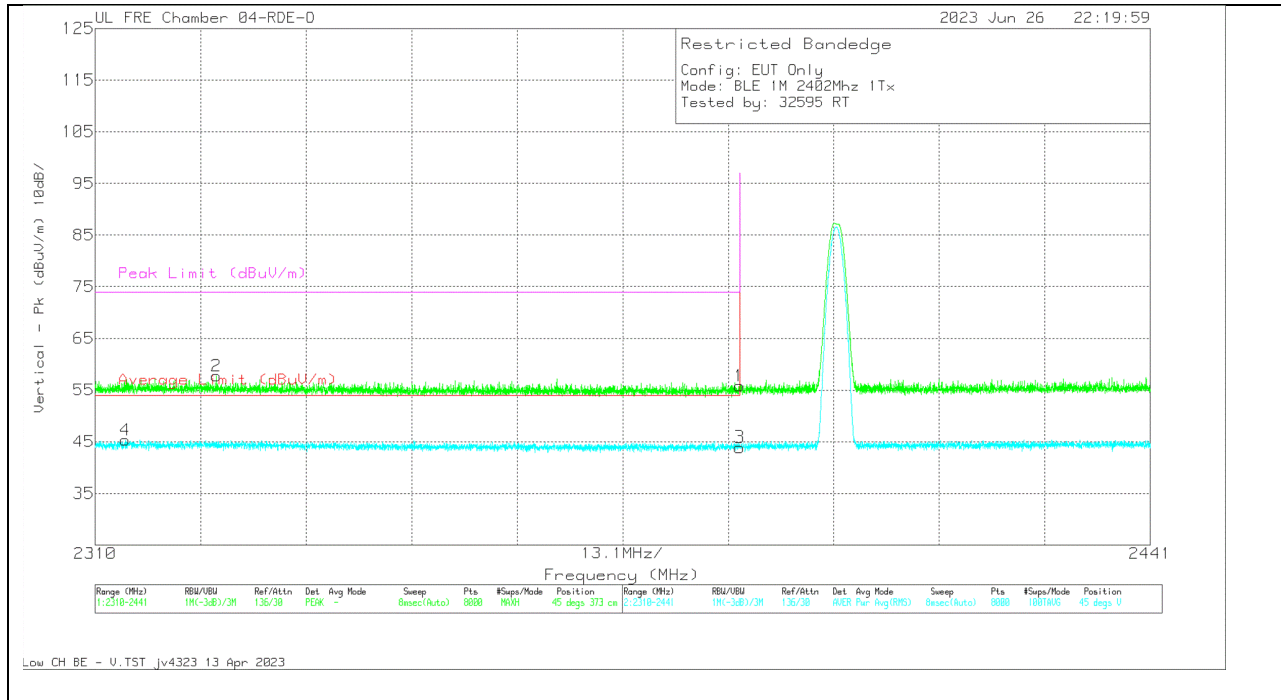
ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3MHz	DCCF (dB)	GainLoss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
2	2318.336	62.16	PK	32.7	0	-37.34	57.52	-	-	74	-16.48	310	301	H
4	2321.48	50.01	RMS	32.7	0	-37.34	45.37	54	-8.63	-	-	310	301	H
1	2390	59.75	PK	32.2	0	-37.35	54.6	-	-	74	-19.4	310	301	H
3	2390	49.2	RMS	32.2	0	-37.35	44.05	54	-9.95	-	-	310	301	H

Pk - Peak detector

RMS - RMS detection

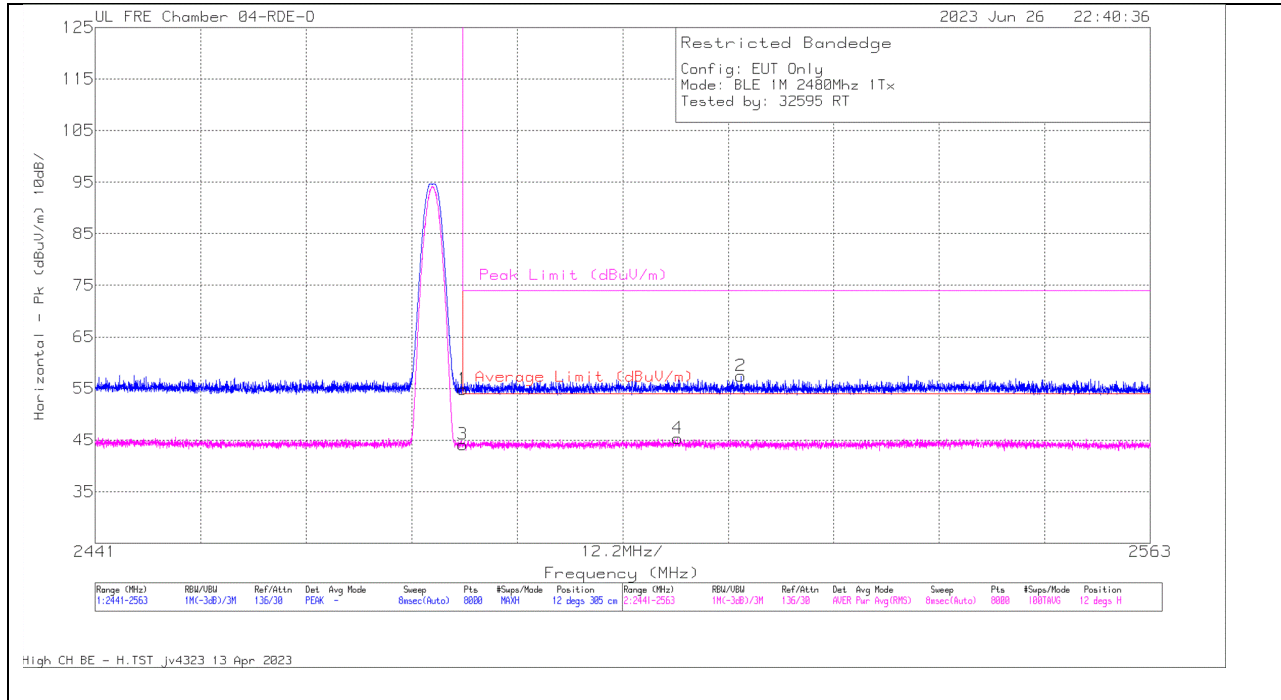
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
4	2313.734	49.95	RMS	32.7	0	-37.34	45.31	54	-8.69	-	-	45	373	V
2	2325.067	62.35	Pk	32.7	0	-37.33	57.72	-	-	74	-16.28	45	373	V
1	2390	60.93	Pk	32.2	0	-37.35	55.78	-	-	74	-18.22	45	373	V
3	2390	49.04	RMS	32.2	0	-37.35	43.89	54	-10.11	-	-	45	373	V

Pk - Peak detector

RMS - RMS detection

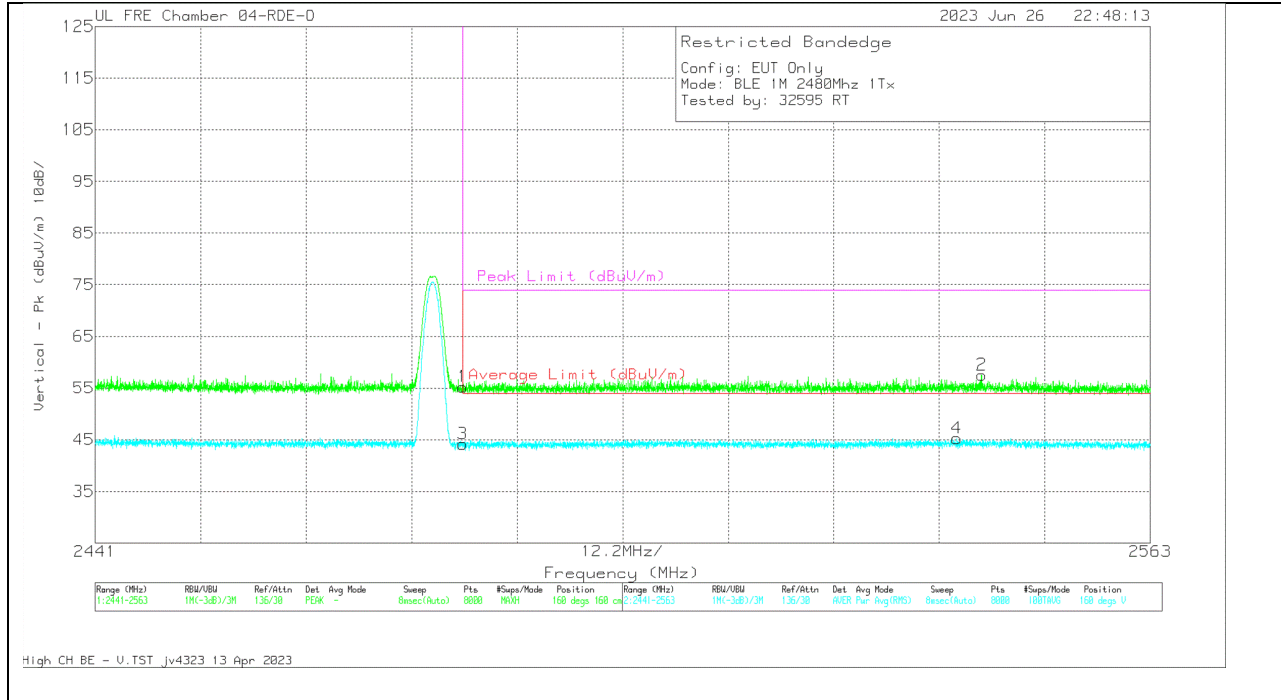
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	59.88	PK	32.2	0	-37.2	54.88	-	-	74	-19.12	12	305	H
3	2483.5	49.16	RMS	32.2	0	-37.2	44.16	54	-9.84	-	-	12	305	H
4	2508.353	50.17	RMS	32.3	0	-37.11	45.36	54	-8.64	-	-	12	305	H
2	2515.659	62.37	PK	32.2	0	-37.12	57.45	-	-	74	-16.55	12	305	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



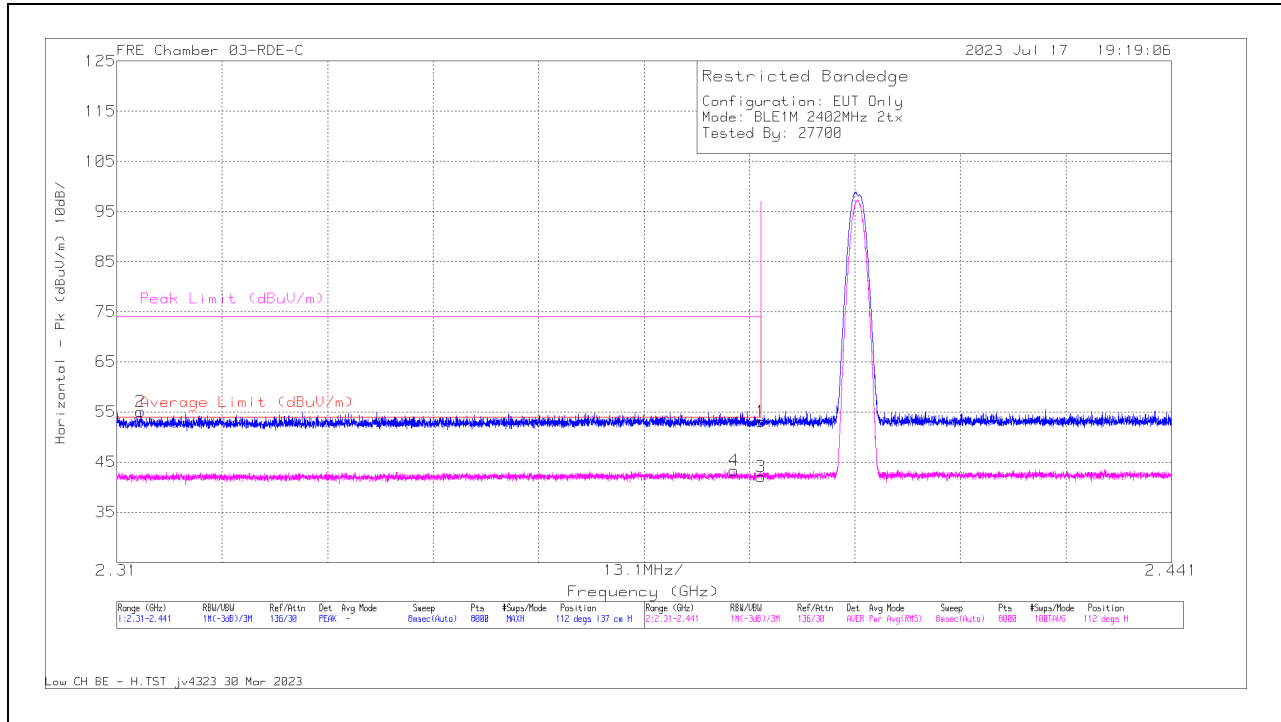
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.26	Pk	32.2	0	-37.2	55.26	-	-	74	-18.74	160	160	V
3	2483.5	49.2	RMS	32.2	0	-37.2	44.2	54	-9.8	-	-	160	160	V
4	2540.641	49.97	RMS	32.4	0	-37.1	45.27	54	-8.73	-	-	160	160	V
2	2543.493	62.35	Pk	32.3	0	-37.11	57.84	-	-	74	-16.46	160	160	V

Pk - Peak detector
RMS - RMS detection

10.1.7. LOW POWER BLE TXBF (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



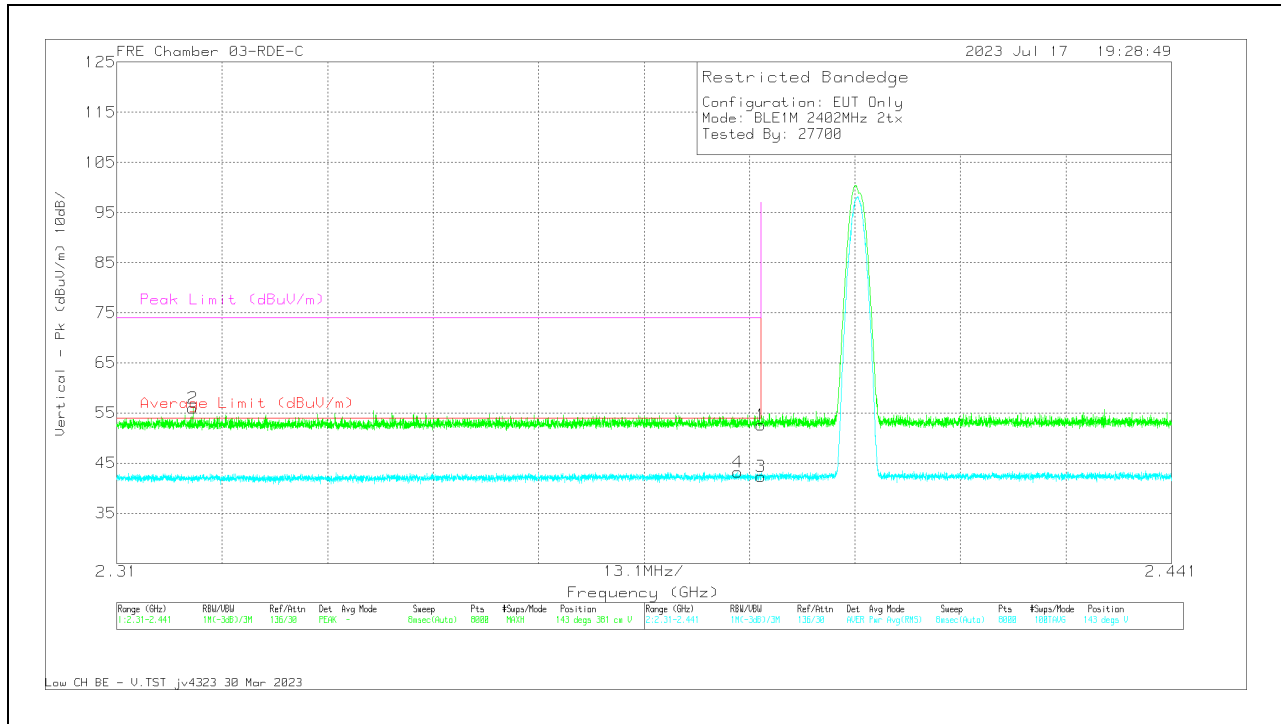
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22667 2 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.83	Pk	32.1	0	-39.8	53.13	-	-	74	-20.87	112	137	H
2	* 2.312981	63.35	Pk	31.8	0	-40	55.15	-	-	74	-18.85	112	137	H
3	* 2.39	49.76	RMS	32.1	0	-39.8	42.06	54	-11.94	-	-	112	137	H
4	* 2.386693	51.09	RMS	32.1	0	-39.9	43.29	54	-10.71	-	-	112	137	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

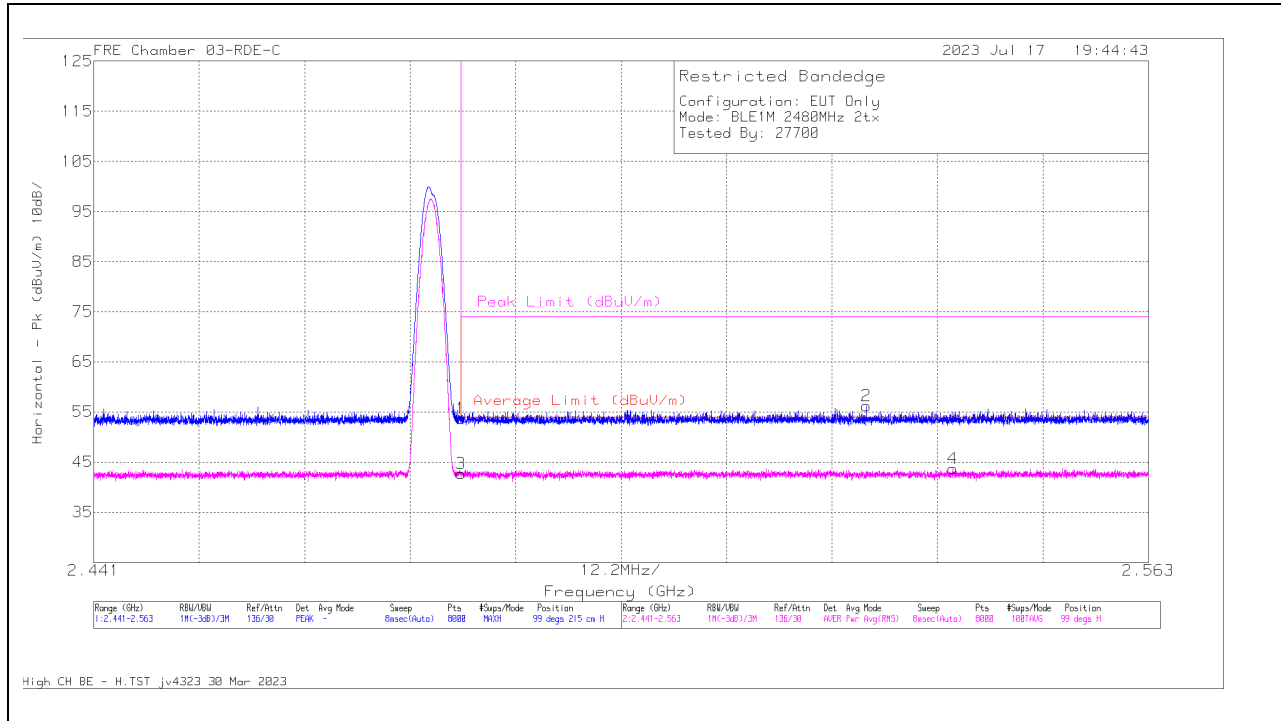


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.27	Pk	32.1	0	-39.8	52.57	-	-	74	-21.43	143	381	V
2	* 2.31945	64.14	Pk	31.8	0	-39.96	55.98	-	-	74	-18.02	143	381	V
3	* 2.39	50.06	RMS	32.1	0	-39.8	42.36	54	-11.64	-	-	143	381	V
4	* 2.387119	51	RMS	32.1	0	-39.9	43.2	54	-10.8	-	-	143	381	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	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (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	61.09	Pk	32.2	0	-39.6	53.69	-	-	74	-20.31	99	215	H
2	2.530361	63.53	Pk	32.3	0	-39.66	56.17	-	-	74	-17.83	99	215	H
3	* 2.4835	50.1	RMS	32.2	0	-39.6	42.7	54	-11.3	-	-	99	215	H
4	2.540352	51.02	RMS	32.3	0	-39.56	43.76	54	-10.24	-	-	99	215	H

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

Pk - Peak detector

RMS - RMS detection

Vertical - Pk (dBuV/m) 10dB/

125
115
105
95
85
75
65
55
45
35

2.441 12.2MHz/ 2.563

Frequency (GHz)

Restricted Bandedge
Configuration: EUT Only
Mode: BLE1M 2480MHz 2tx
Tested By: 27700

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

3

2

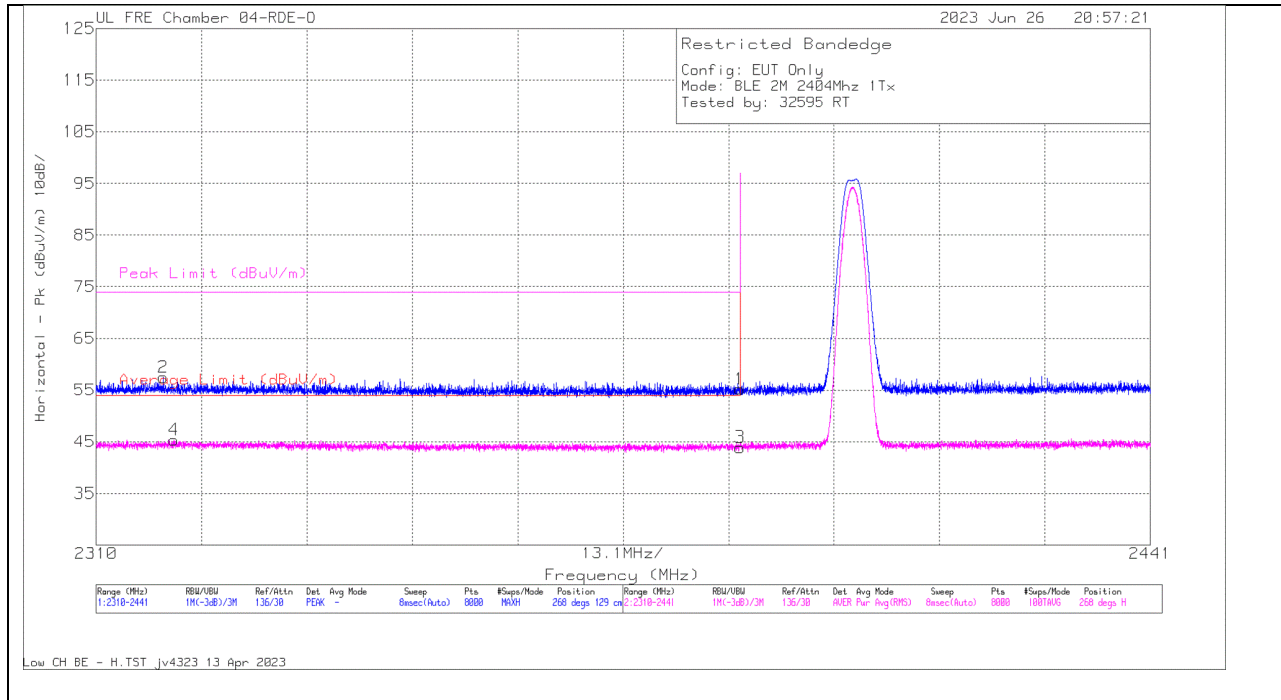
4

Range (GHz)	RBW/1BW	Ref/Attn	Det	Avg Mode	Sweep	Pts	#Seps/Mode	Position	Range (GHz)	RBW/1BW	Ref/Attn	Det	Avg Mode	Sweep	Pts	#Seps/Mode	Position
2.441-2.563	1M(-3dB)/3M	136/30	PEAK	-	Sawtooth	8888	N/A/1	171 degs 263 cr U	2.441-2.563	1M(-3dB)/3M	136/30	AVER	Per Avg(RMS)	Sawtooth	8888	1081/45	171 degs U

High CH BE - U.TST jv4323 30 Mar 2023

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (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	61.03	Pk	32.2	0	-39.6	53.63	-	-	74	-20.37	171	263	V
2	2.518465	63.19	Pk	32.3	0	-39.6	55.89	-	-	74	-18.11	171	263	V
3	* 2.4835	50.05	RMS	32.2	0	-39.6	42.65	54	-11.35	-	-	171	263	V
4	2.565503	50.83	RMS	32.3	0	-39.45	43.68	54	-10.32	-	-	171	263	V

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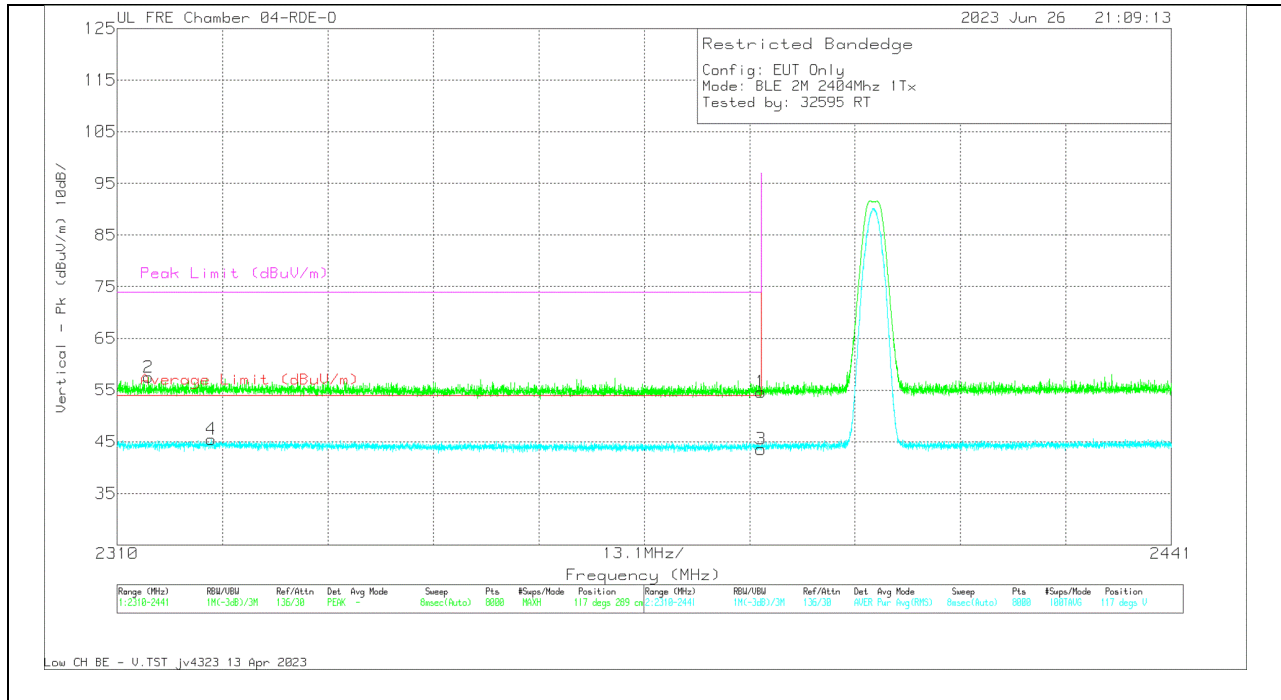
10.1.8. **LOW POWER BLE (2Mbps)****ANT 4****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2318.336	62.11	PK	32.7	0	-37.34	57.47	-	-	74	-16.53	268	129	H
4	2319.679	50.1	RMS	32.6	0	-37.35	45.35	54	-8.65	-	-	268	129	H
1	2390	60.32	PK	32.2	0	-37.35	55.17	-	-	74	-18.83	268	129	H
3	2390	49.05	RMS	32.2	0	-37.35	43.9	54	-10.1	-	-	268	129	H

Pk - Peak detector

RMS - RMS detection

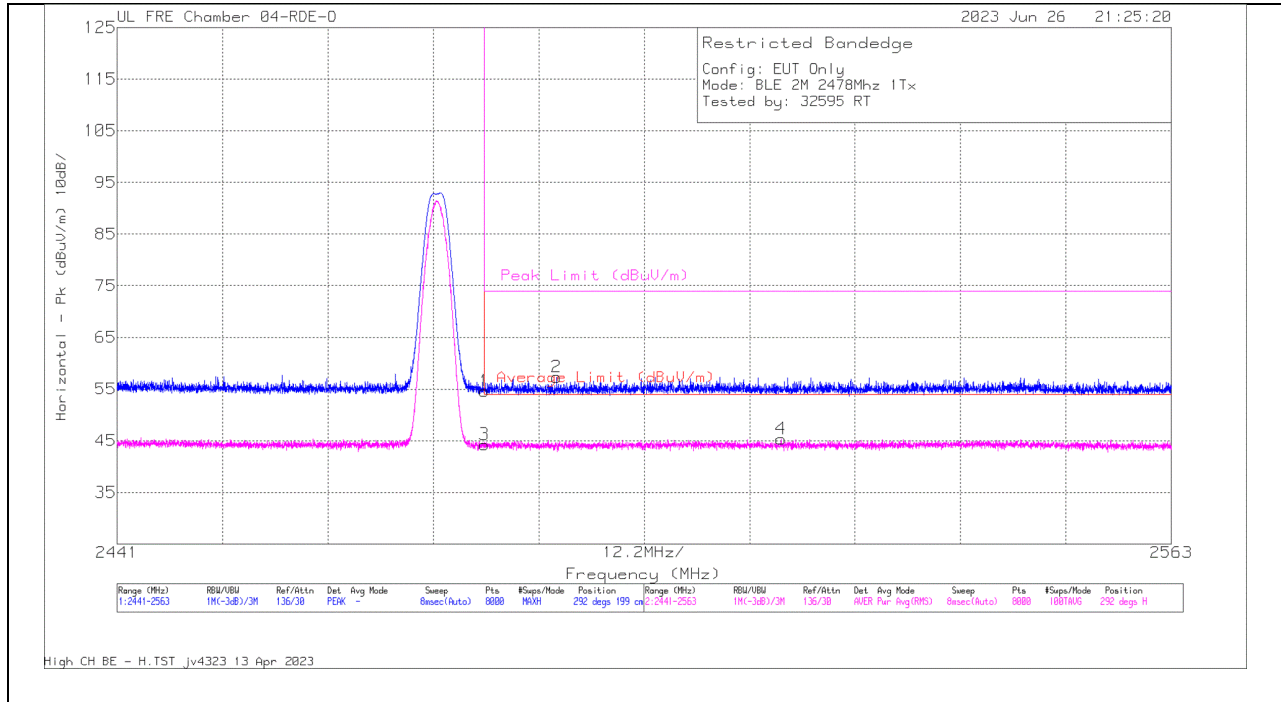
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2313.881	62.14	Pk	32.7	0	-37.34	57.5	-	-	74	-16.5	117	289	V
4	2321.71	50.11	RMS	32.7	0	-37.33	45.48	54	-8.52	-	-	117	289	V
1	2390	59.77	Pk	32.2	0	-37.35	54.62	-	-	74	-19.38	117	289	V
3	2390	48.71	RMS	32.2	0	-37.35	43.56	54	-10.44	-	-	117	289	V

Pk - Peak detector

RMS - RMS detection

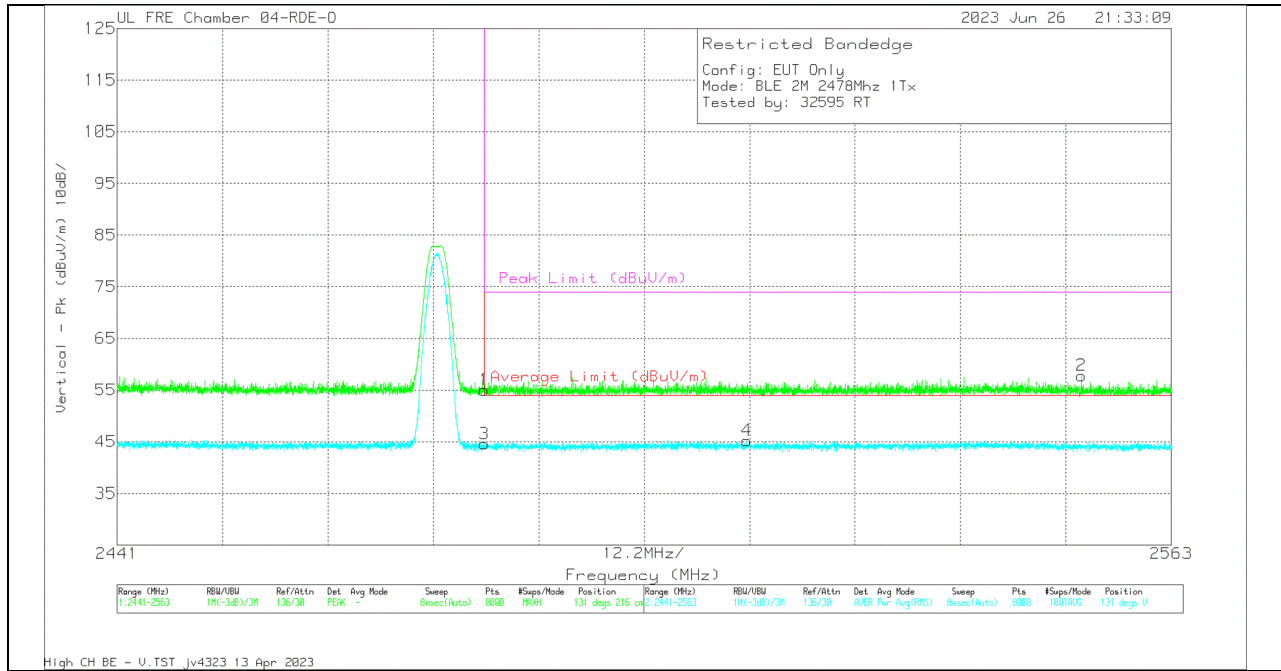
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	59.59	PK	32.2	0	-37.2	54.59	-	-	74	-19.41	292	199	H
3	2483.5	49.26	RMS	32.2	0	-37.2	44.26	54	-9.74	-	-	292	199	H
2	2491.835	62.39	PK	32.1	0	-37.16	57.33	-	-	74	-16.67	292	199	H
4	2517.84	50.28	RMS	32.2	0	-37.12	45.36	54	-8.64	-	-	292	199	H

Pk - Peak detector

RMS - RMS detection

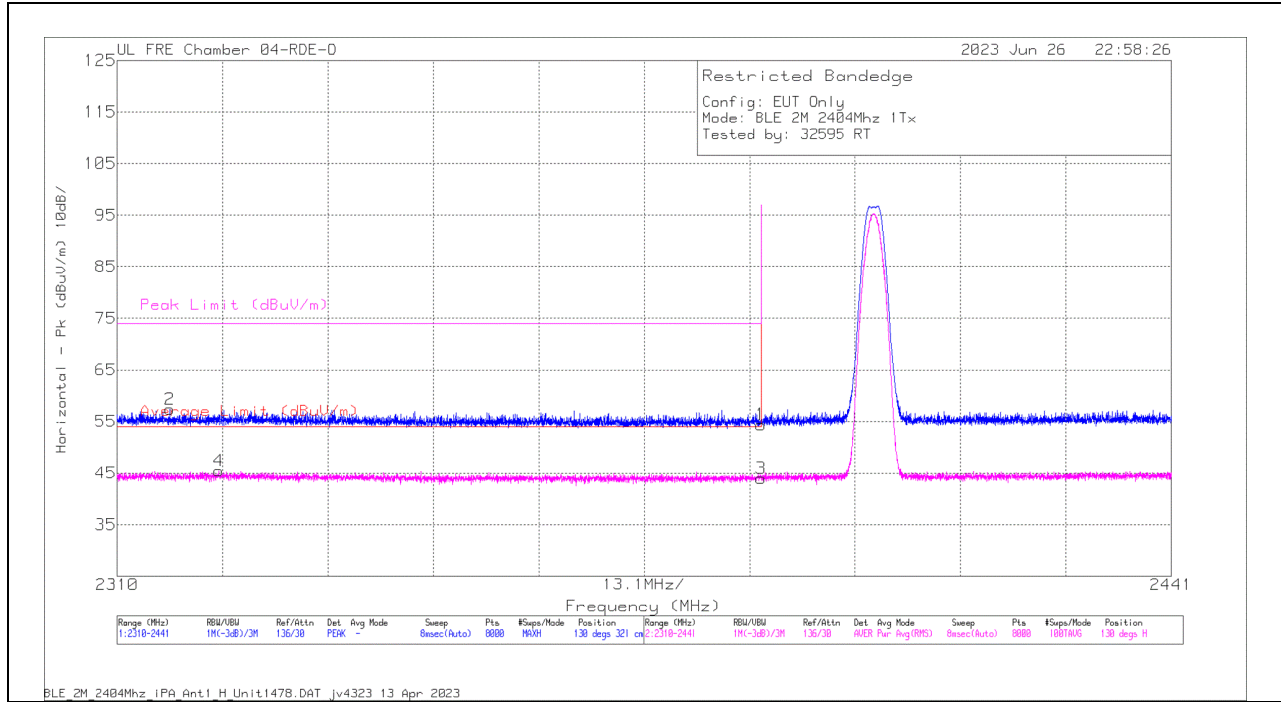
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.03	Pk	32.2	0	-37.2	55.03	-	-	74	-18.97	131	216	V
3	2483.5	49.57	RMS	32.2	0	-37.2	44.57	54	-9.43	-	-	131	216	V
4	2513.859	50.06	RMS	32.3	0	-37.14	45.22	54	-8.78	-	-	131	216	V
2	2552.614	62.76	Pk	32.1	0	-37.05	57.81	-	-	74	-16.19	131	216	V

Pk - Peak detector

RMS - RMS detection

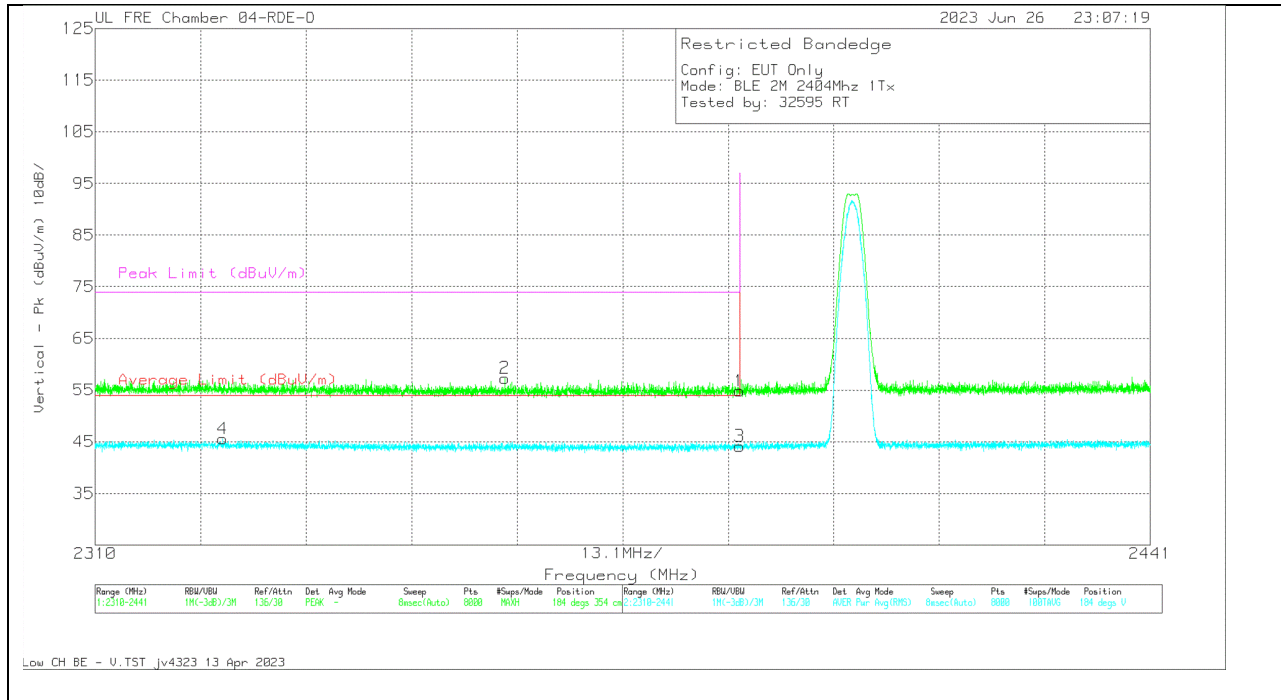
ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2316.534	62	PK	32.7	0	-37.33	57.37	-	-	74	-16.63	130	321	H
4	2322.627	50.07	RMS	32.7	0	-37.32	45.45	54	-8.55	-	-	130	321	H
1	2390	59.52	PK	32.2	0	-37.35	54.37	-	-	74	-19.63	130	321	H
3	2390	49.14	RMS	32.2	0	-37.35	43.99	54	-10.01	-	-	130	321	H

Pk - Peak detector

RMS - RMS detection

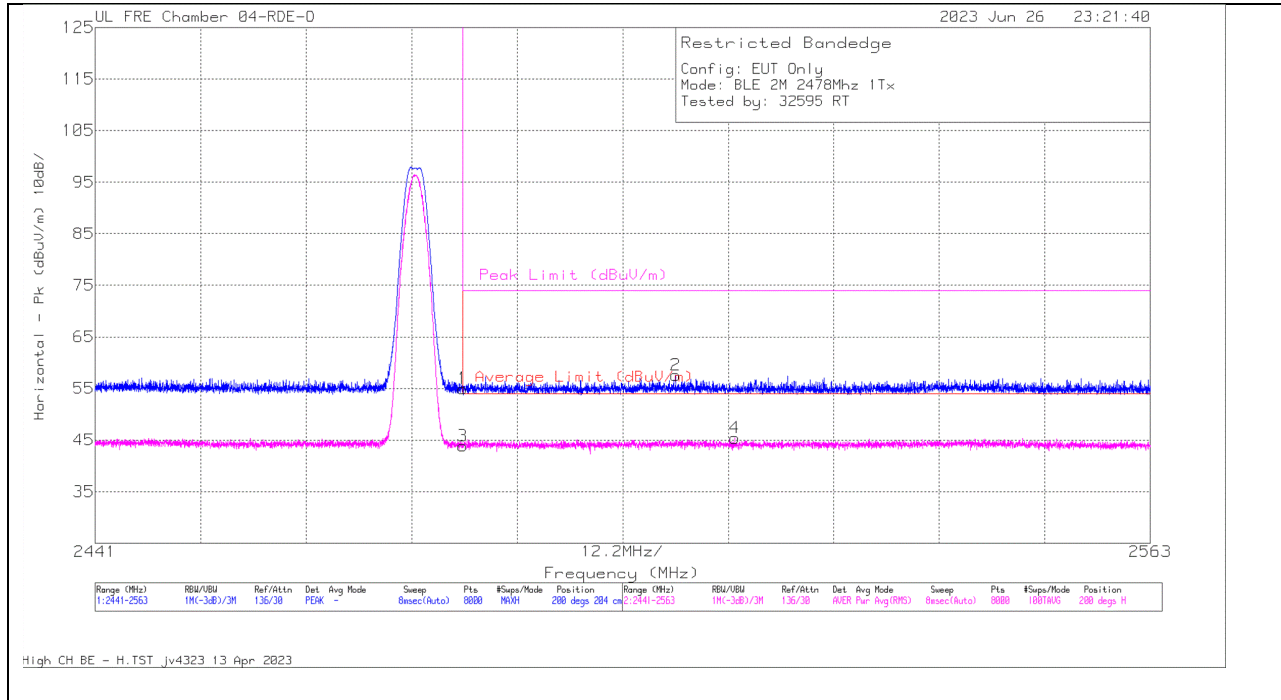
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
4	2325.853	50.18	RMS	32.7	0	-37.34	45.54	54	-8.46	-	-	184	354	V
2	2360.834	62.44	Pk	32.2	0	-37.34	57.3	-	-	74	-16.7	184	354	V
1	2390	59.95	Pk	32.2	0	-37.35	54.8	-	-	74	-19.2	184	354	V
3	2390	49.26	RMS	32.2	0	-37.35	44.11	54	-9.89	-	-	184	354	V

Pk - Peak detector

RMS - RMS detection

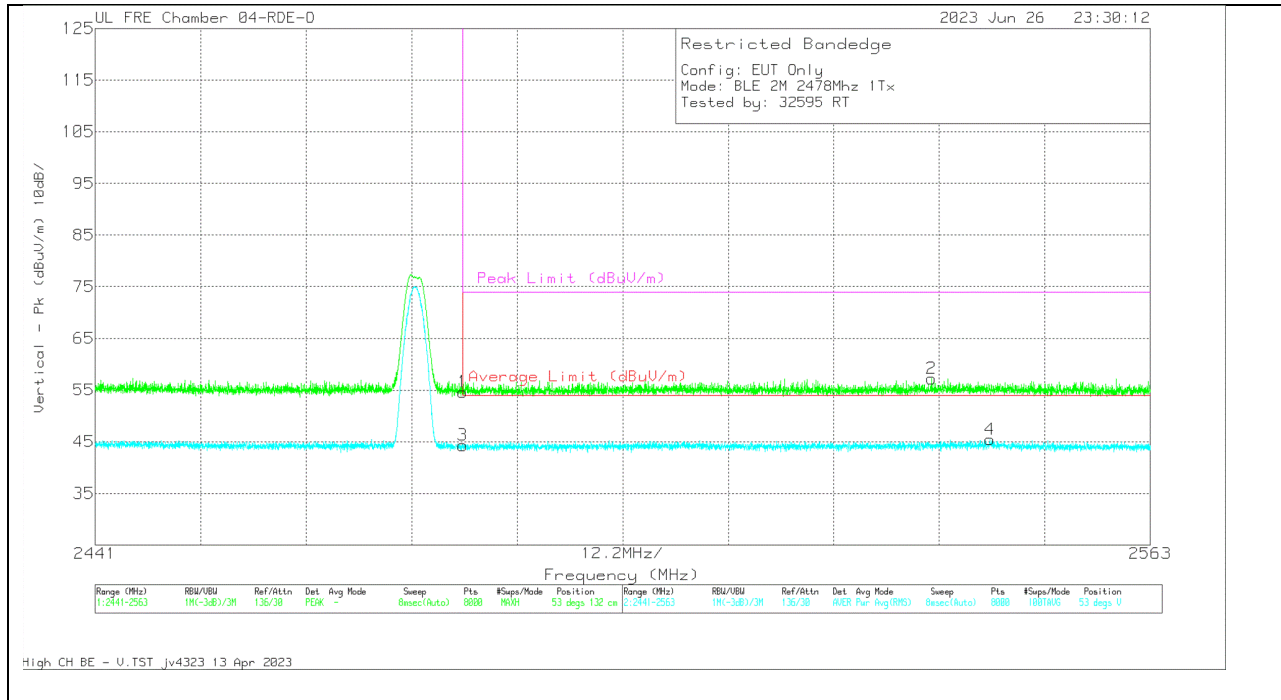
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCOF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	59.97	PK	32.2	0	-37.2	54.97	-	-	74	-19.03	200	204	H
3	2483.5	48.84	RMS	32.2	0	-37.2	43.84	54	-10.16	-	-	200	204	H
2	2508.109	62.4	PK	32.3	0	-37.11	57.59	-	-	74	-16.41	200	204	H
4	2514.942	50.24	RMS	32.3	0	-37.13	45.41	54	-8.59	-	-	200	204	H

Pk - Peak detector

RMS - RMS detection

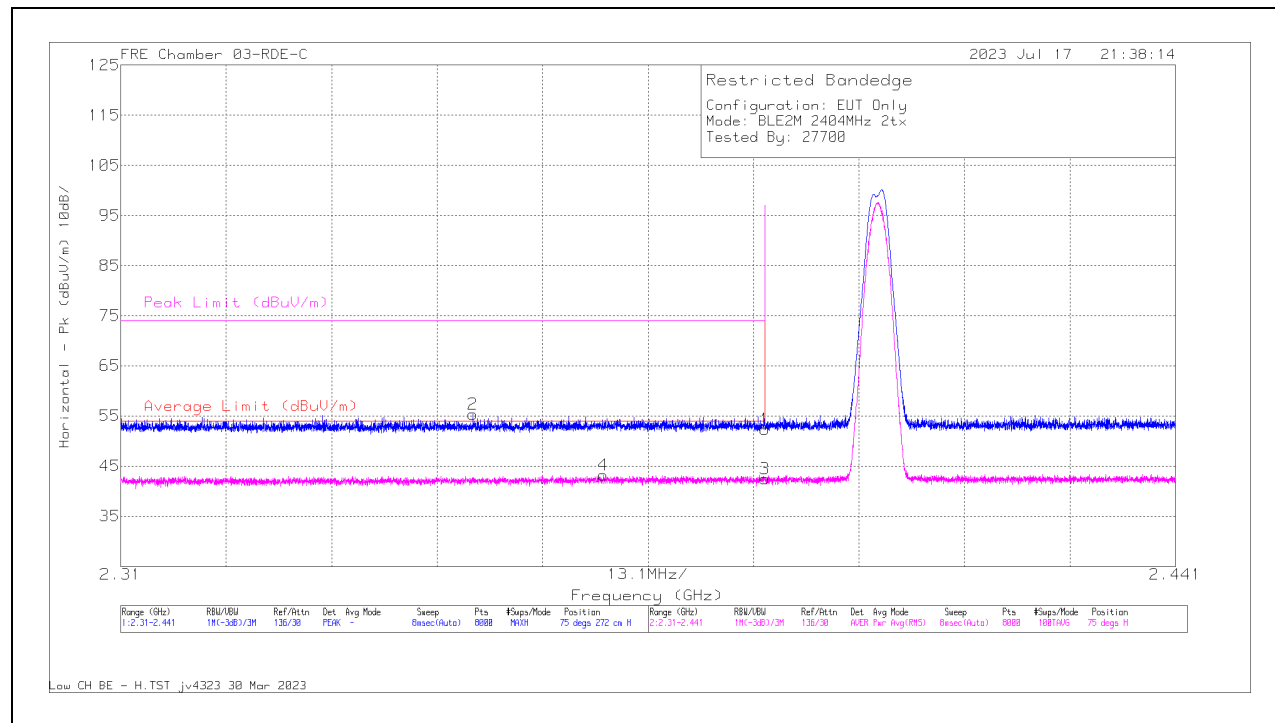
VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	2483.5	59.61	Pk	32.2	0	-37.2	54.61	-	-	74	-19.39	53	132	V
3	2483.5	49.3	RMS	32.2	0	-37.2	44.3	-	-9.7	-	-	53	132	V
2	2537.713	61.96	Pk	32.4	0	-37.13	57.23	-	-	74	-16.77	53	132	V
4	2544.439	50.24	RMS	32.3	0	-37.1	45.44	54	-8.56	-	-	53	132	V

Pk - Peak detector

RMS - RMS detection

10.1.9. **LOW POWER BLE TXBF (2Mbps)****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

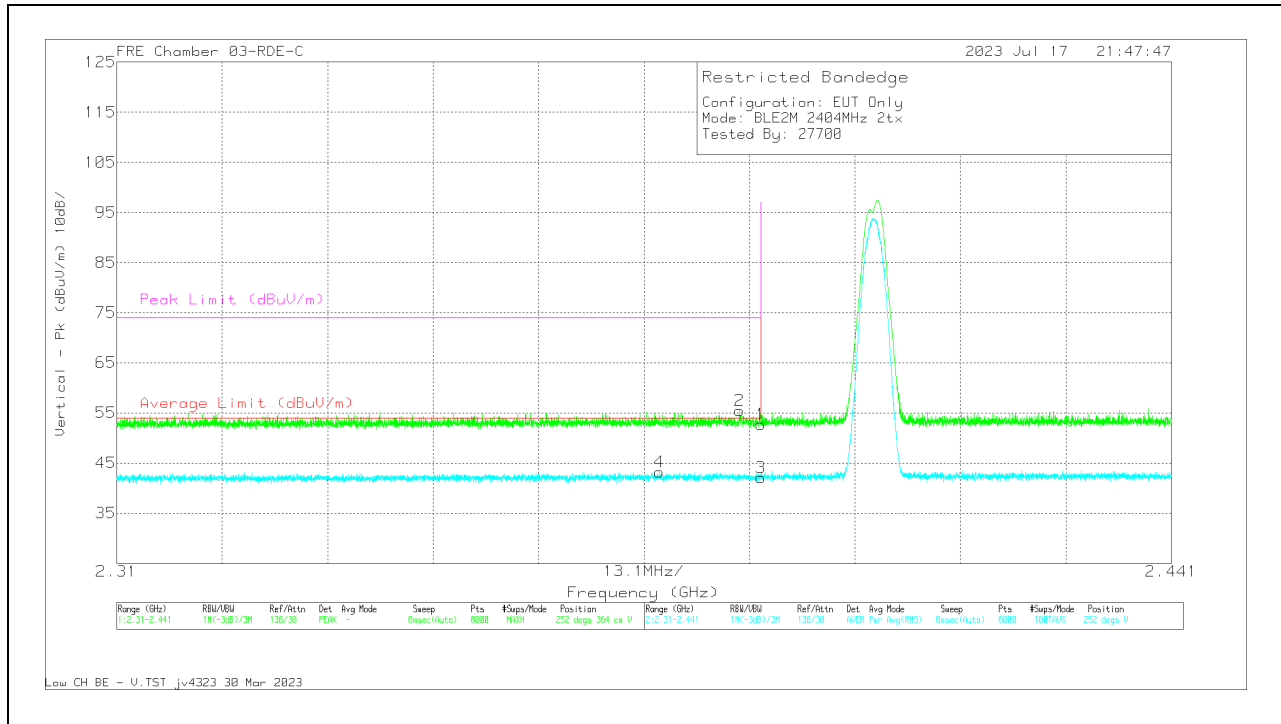
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.03	Pk	32.1	0	-39.8	52.33	-	-	74	-21.67	75	272	H
2	* 2.353743	63.29	Pk	31.9	0	-39.87	55.32	-	-	74	-18.68	75	272	H
3	* 2.39	50.15	RMS	32.1	0	-39.8	42.45	54	-11.55	-	-	75	272	H
4	* 2.369956	51.13	RMS	32	0	-39.9	43.23	54	-10.77	-	-	75	272	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

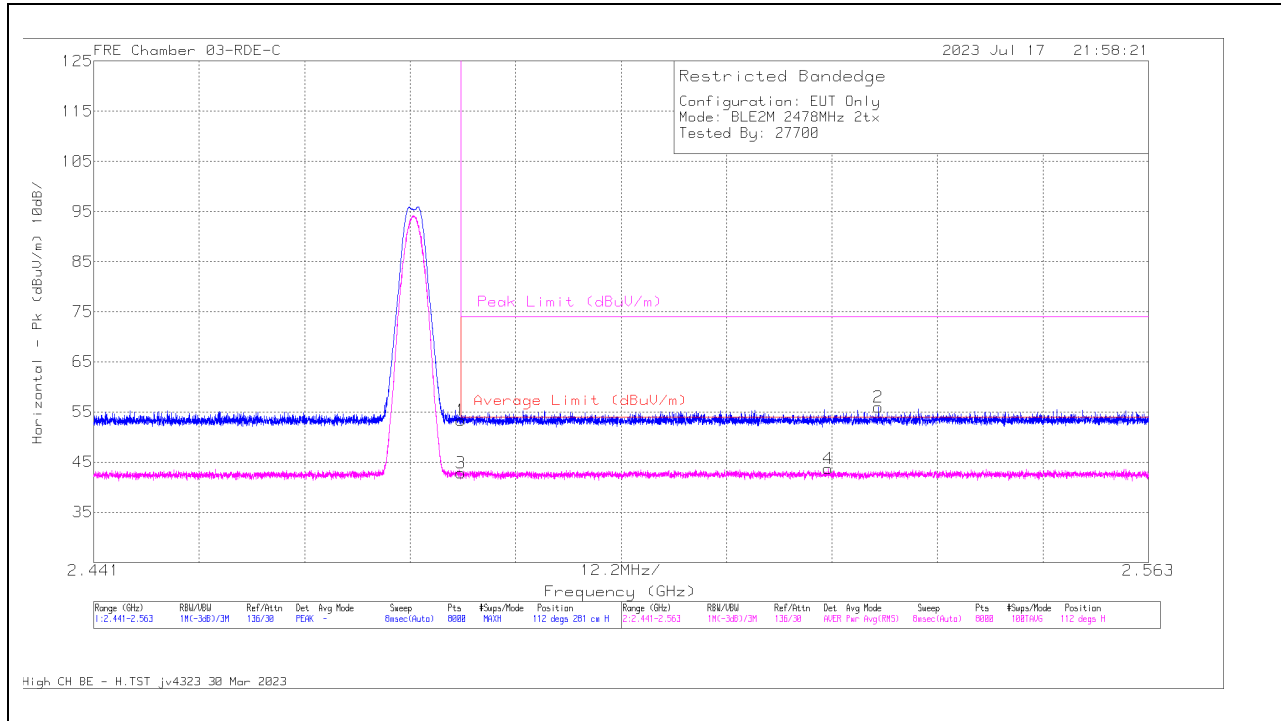


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.4	Pk	32.1	0	-39.8	52.7	-	-	74	-21.3	252	364	V
2	* 2.387365	63.22	Pk	32.1	0	-39.9	55.42	-	-	74	-18.58	252	364	V
3	* 2.39	49.84	RMS	32.1	0	-39.8	42.14	54	-11.86	-	-	252	364	V
4	* 2.377408	51.1	RMS	32	0	-39.9	43.2	54	-10.8	-	-	252	364	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

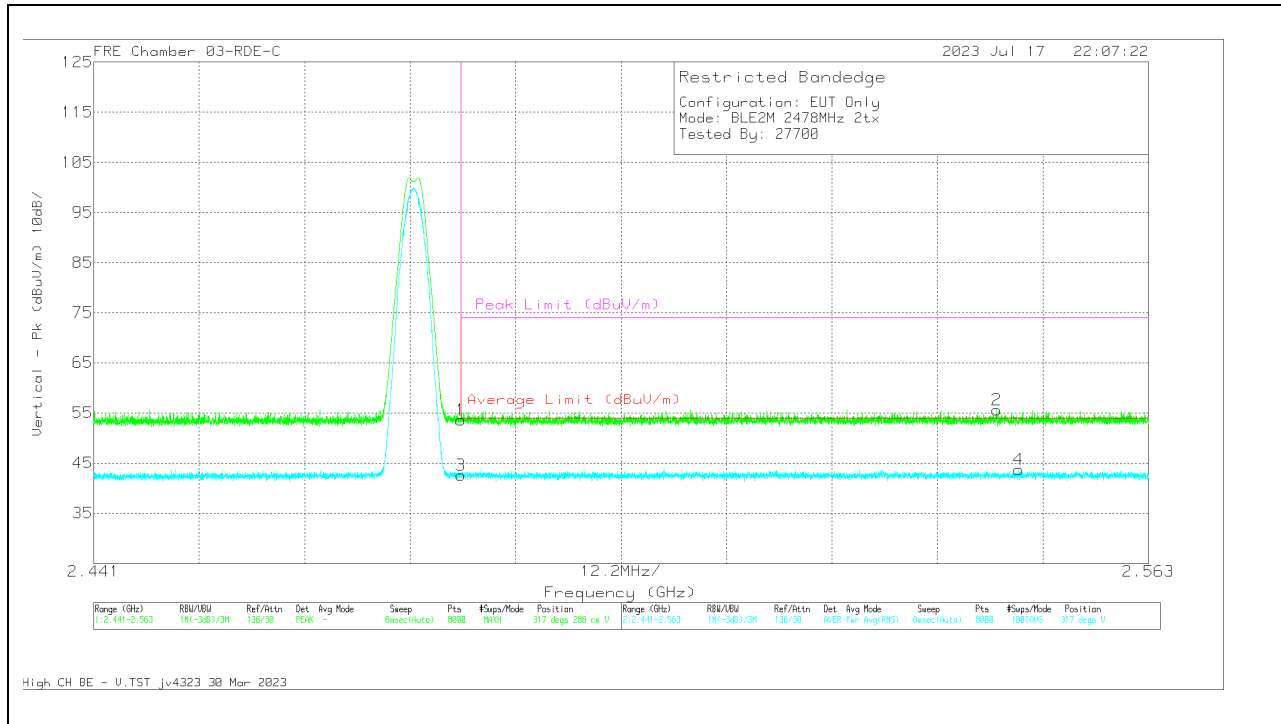
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.75	Pk	32.2	0	-39.6	53.35	-	-	74	-20.65	112	281	H
2	2.531719	63.15	Pk	32.3	0	-39.53	55.92	-	-	74	-18.08	112	281	H
3	* 2.4835	50.18	RMS	32.2	0	-39.6	42.78	54	-11.22	-	-	112	281	H
4	2.525969	51.01	RMS	32.3	0	-39.6	43.71	54	-10.29	-	-	112	281	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	226672 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (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	60.99	Pk	32.2	0	-39.6	53.59	-	-	74	-20.41	317	288	V
2	2.54543	62.83	Pk	32.3	0	-39.54	55.59	-	-	74	-18.41	317	288	V
3	* 2.4835	50.01	RMS	32.2	0	-39.6	42.61	54	-11.39	-	-	317	288	V
4	2.548023	50.92	RMS	32.3	0	-39.5	43.72	54	-10.28	-	-	317	288	V

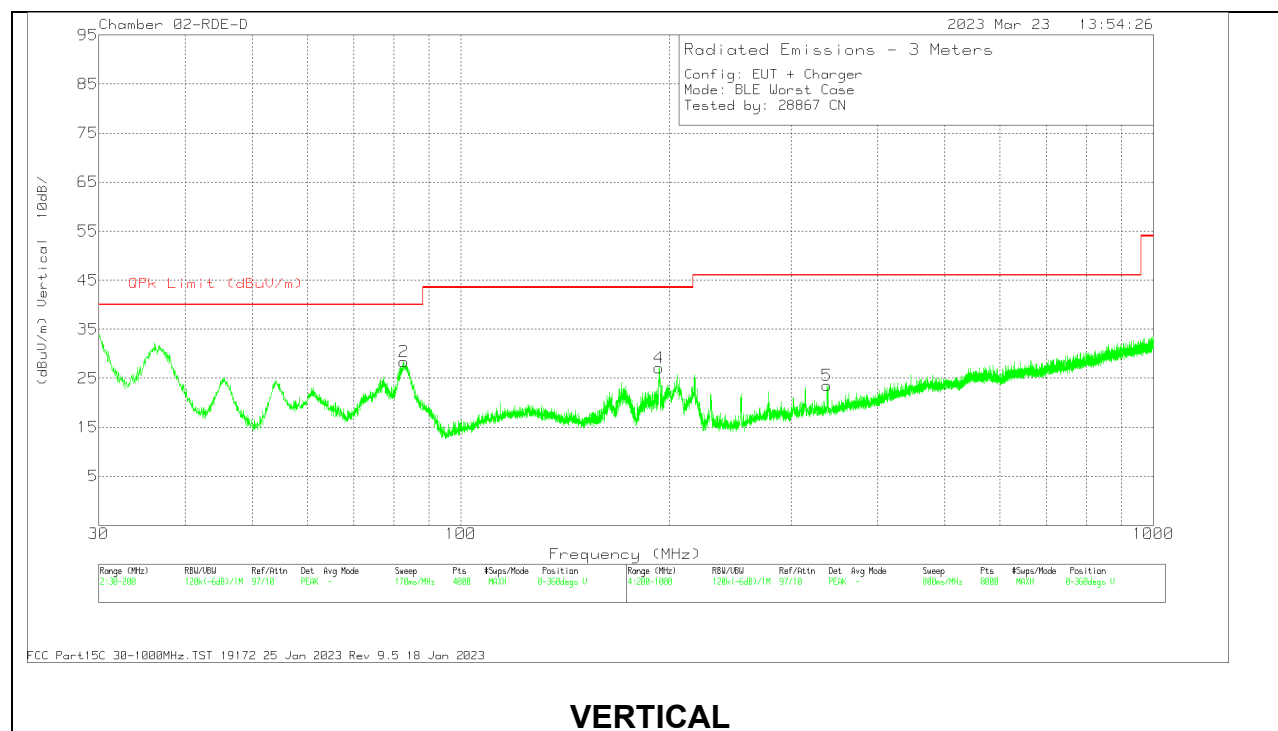
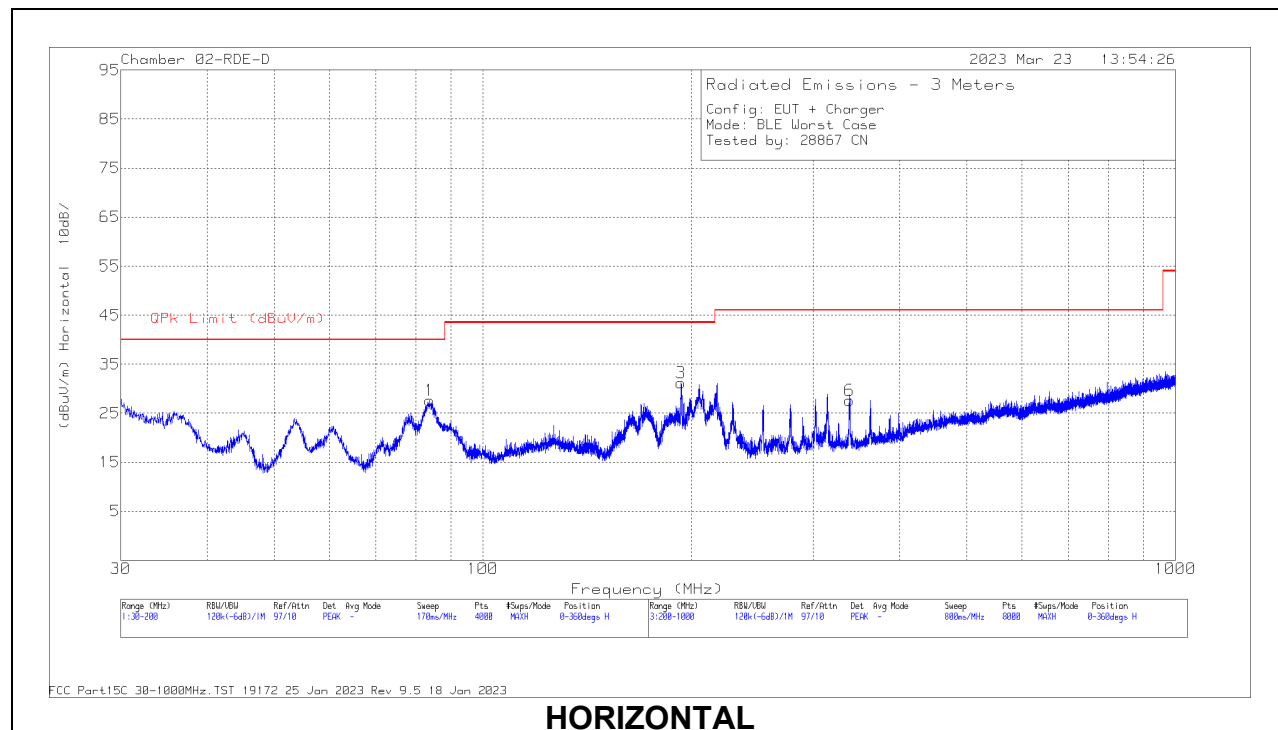
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.2. WORST CASE BELOW 1 GHZ

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



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	82.7562	45.34	Pk	13.3	-30.2	28.44	40	-11.56	0-360	99	V
	82.9887	40.53	Qp	13.2	-30.2	23.53	40	-16.47	0	100	V
1	83.7339	44.57	Pk	13.2	-30.2	27.57	40	-12.43	0-360	299	H
4	193.242	39.04	Pk	17.9	-29.8	27.14	43.52	-16.38	0-360	199	V
3	193.327	43.04	Pk	17.9	-29.8	31.14	43.52	-12.38	0-360	101	H
	193.525	37.56	Qp	18	-29.8	25.76	43.52	-17.76	0	102	H
5	338.018	32.57	Pk	20	-29.1	23.47	46.02	-22.55	0-360	399	V
6	338.118	36.75	Pk	20	-29.1	27.65	46.02	-18.37	0-360	101	H

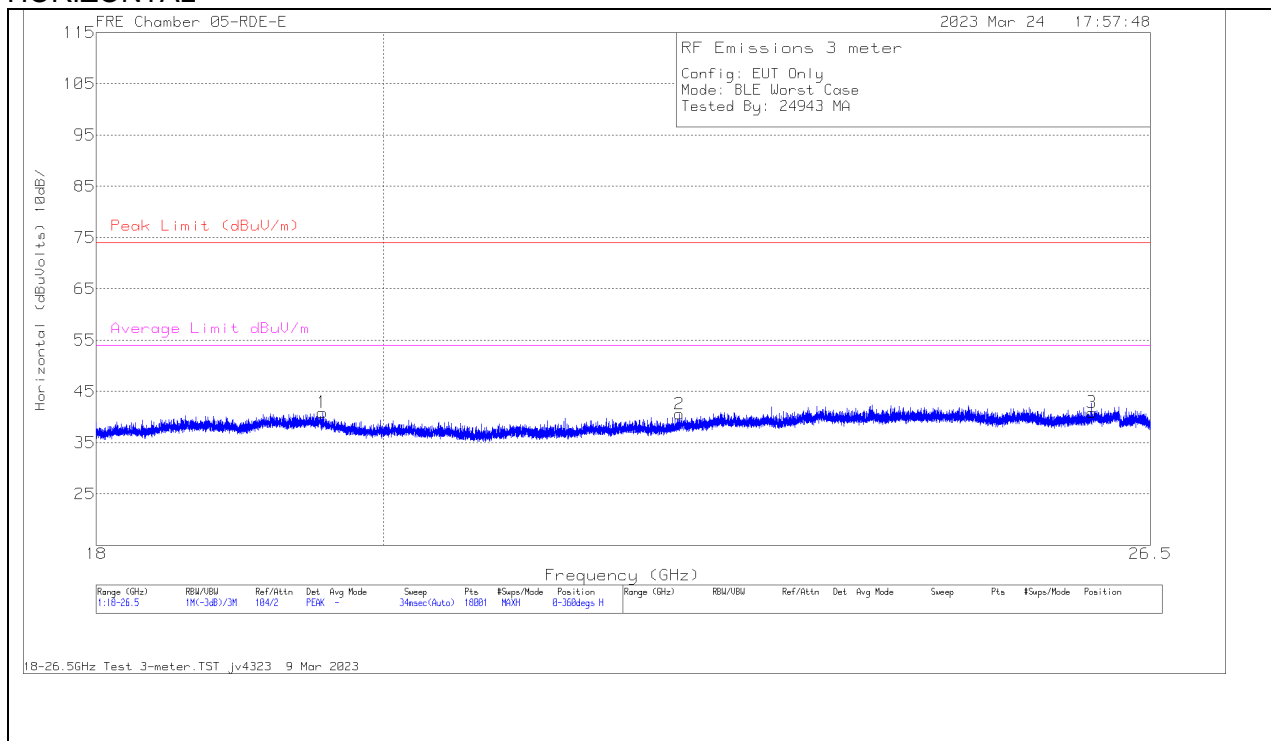
Pk - Peak detector

Qp - Quasi-Peak detector

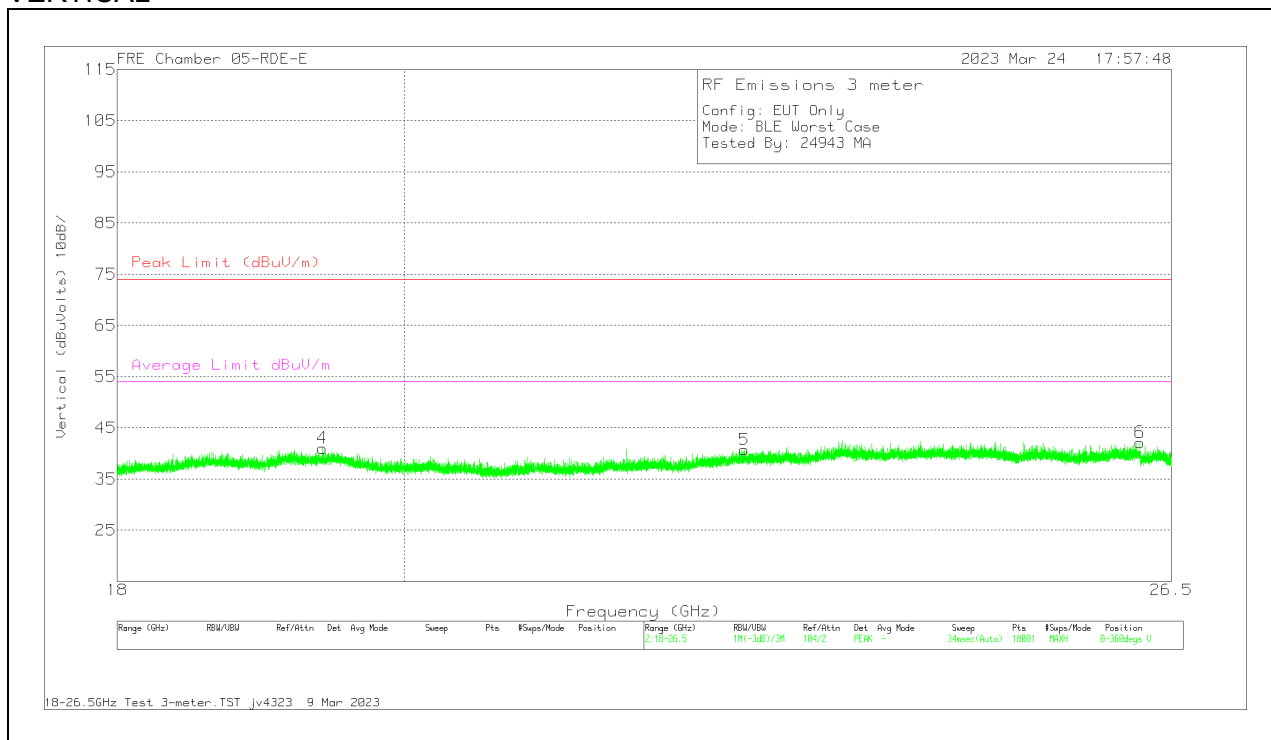
10.3. WORST CASE 18-26 GHz

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

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn ACF (dB/m)	amp/cbl (dB)	CBL/S WITC H	Corrected Reading (dBuV olts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.55786	56.99	Pk	32.4	-61.9	13.4	40.89	74	-33.11	54	-13.11	0-360	101	H
2	* 22.294387	55.5	Pk	33	-62.1	14.2	40.6	74	-33.4	54	-13.4	0-360	200	H
4	* 19.408638	57.1	Pk	32.4	-61.8	13.3	41	74	-33	54	-13.0	0-360	200	V
5	* 22.656109	55.12	Pk	33.1	-61.9	14.4	40.72	74	-33.28	54	-13.28	0-360	101	V
3	25.939941	52.67	Pk	33.9	-61.2	15.5	40.87	74	-33.13	54	-13.13	0-360	101	H
6	26.194941	53.93	Pk	33.8	-61.3	15.7	42.13	74	-31.87	54	-11.87	0-360	101	V

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

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

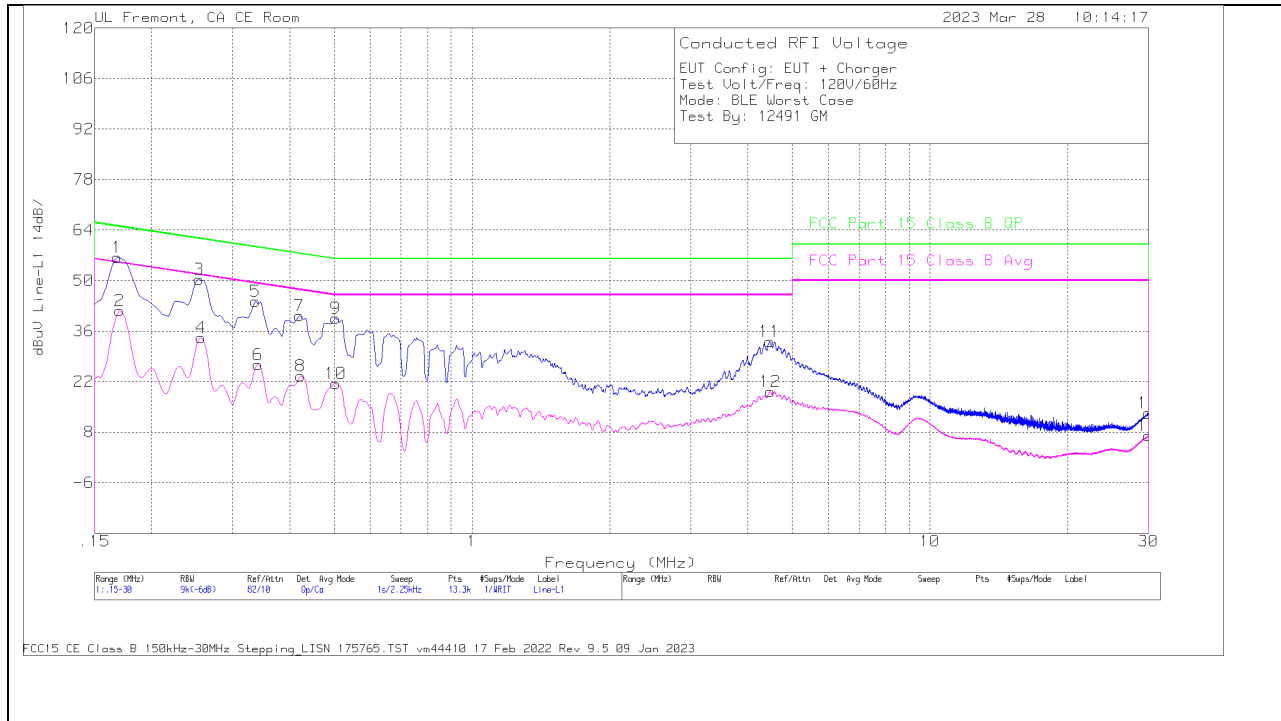
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line WITH AC/DC ADAPTER

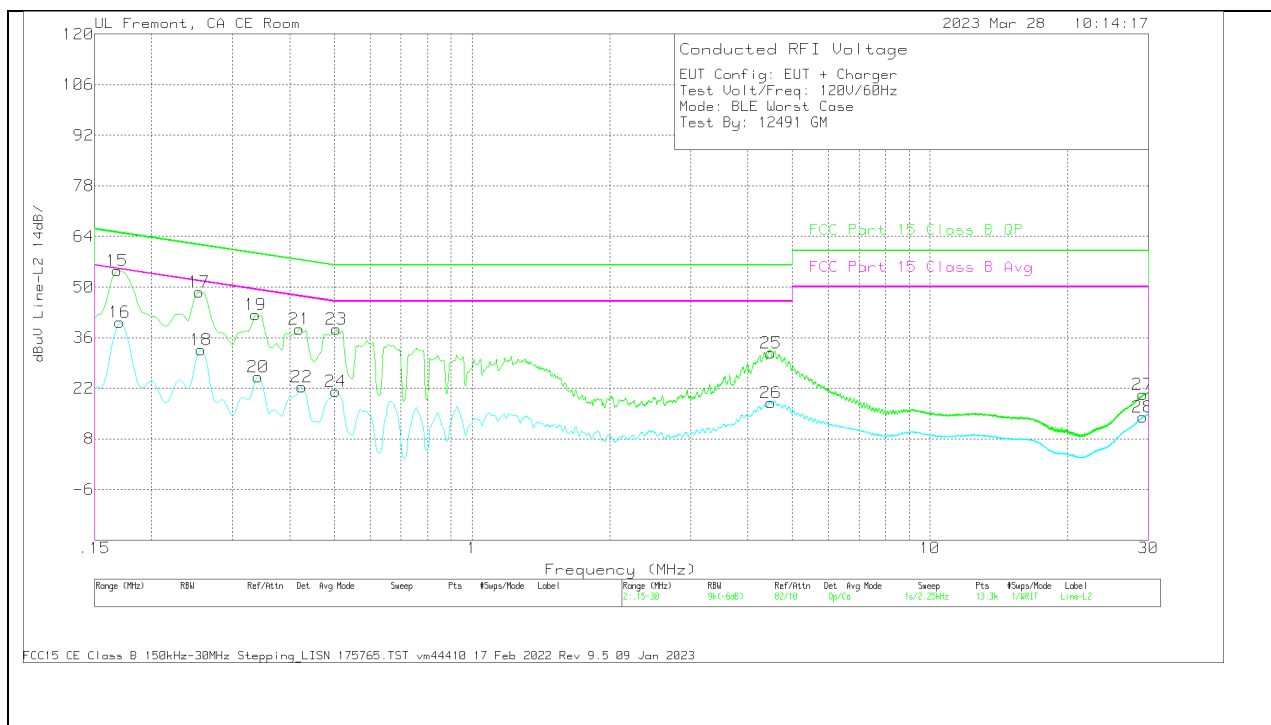
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv dB	C1&C3 cable path loss dB	207996 Limiter with dBshort cabl	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
2	.1703	32.27	Ca	0	0	9.4	41.67	-	-	54.95	-13.28
4	.2558	24.85	Ca	0	0	9.3	34.15	-	-	51.57	-17.42
6	.3413	17.29	Ca	0	.1	9.3	26.69	-	-	49.17	-22.48
8	.4223	14.1	Ca	0	.1	9.3	23.5	-	-	47.4	-23.9
10	.5033	12.11	Ca	0	.1	9.3	21.51	-	-	46	-24.49
12	4.479	9.87	Ca	0	.1	9.3	19.27	-	-	46	-26.73
14	29.9794	-2.99	Ca	.3	.3	9.4	7.01	-	-	50	-42.99
1	.168	47.02	Qp	0	0	9.4	56.42	65.06	-8.64	-	-
3	.2535	40.98	Qp	0	0	9.3	50.28	61.64	-11.36	-	-
5	.3368	34.93	Qp	0	0	9.3	44.23	59.28	-15.05	-	-
7	.42	30.82	Qp	0	.1	9.3	40.22	57.45	-17.23	-	-
9	.5044	30.12	Qp	0	.1	9.3	39.52	56	-16.48	-	-
11	4.4633	23.75	Qp	0	.1	9.3	33.15	56	-22.85	-	-
13	29.9963	3.24	Qp	.3	.3	9.4	13.24	60	-46.76	-	-

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

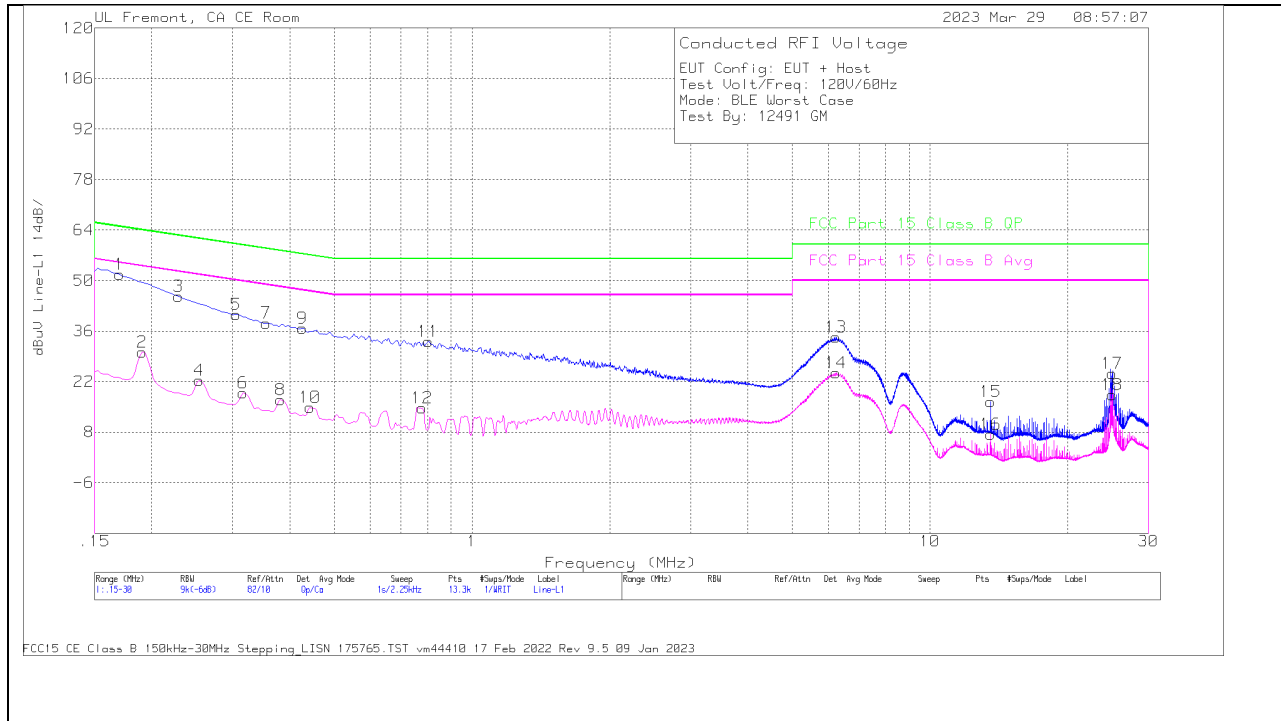
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2_LISN dB	C2&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
16	.1703	30.79	Ca	0	0	9.4	40.19	-	-	54.95	-14.76
18	.2558	23.34	Ca	0	0	9.3	32.64	-	-	51.57	-18.93
20	.3413	15.87	Ca	0	0	9.3	25.17	-	-	49.17	-24
22	.4245	12.89	Ca	0	.1	9.3	22.29	-	-	47.36	-25.07
24	.5044	11.81	Ca	0	.1	9.3	21.21	-	-	46	-24.79
26	4.4993	8.6	Ca	0	.1	9.3	18	-	-	46	-28
28	29.1694	4.09	Ca	.3	.3	9.4	14.09	-	-	50	-35.91
15	.168	45.17	Qp	0	0	9.4	54.57	65.06	-10.49	-	-
17	.2535	39.29	Qp	0	0	9.3	48.59	61.64	-13.05	-	-
19	.3368	33.04	Qp	0	0	9.3	42.34	59.28	-16.94	-	-
21	.42	29.03	Qp	0	.1	9.3	38.43	57.45	-19.02	-	-
23	.5055	28.91	Qp	0	.1	9.3	38.31	56	-17.69	-	-
25	4.4993	22.3	Qp	0	.1	9.3	31.7	56	-24.3	-	-
27	29.1795	10.21	Qp	.3	.3	9.4	20.21	60	-39.79	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line With Laptop

LINE 1 RESULTS



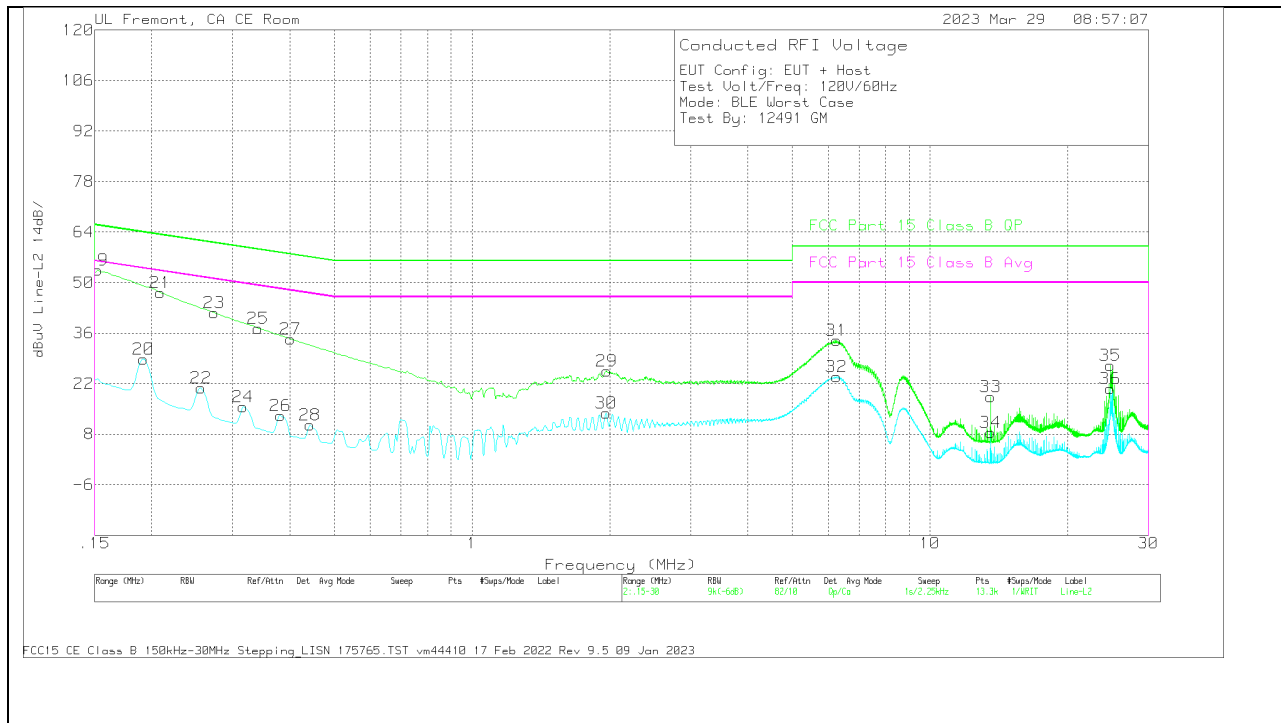
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv dB	C1&C3 cable path loss dB	207996 Limiter with dBshort cabl	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
2	.1905	20.77	Ca	0	0	9.4	30.17	-	-	54.01	-23.84
4	.2535	13.06	Ca	0	0	9.3	22.36	-	-	51.64	-29.28
6	.3165	9.53	Ca	0	0	9.3	18.83	-	-	49.8	-30.97
8	.3818	7.5	Ca	0	.1	9.3	16.9	-	-	48.24	-31.34
10	.4425	5.43	Ca	0	.1	9.3	14.83	-	-	47.01	-32.18
12	.7778	5.25	Ca	0	.1	9.3	14.65	-	-	46	-31.35
14	6.243	15.03	Ca	0	.1	9.3	24.43	-	-	50	-25.57
16	13.56	-2.22	Ca	.1	.2	9.3	7.38	-	-	50	-42.62
18	24.9855	8.54	Ca	.2	.3	9.4	18.44	-	-	50	-31.56
1	.1703	42.28	Qp	0	0	9.4	51.68	64.95	-13.27	-	-
3	.2288	36.29	Qp	0	0	9.3	45.59	62.49	-16.9	-	-
5	.3053	31.33	Qp	0	0	9.3	40.63	60.1	-19.47	-	-
7	.3548	28.96	Qp	0	0	9.3	38.26	58.85	-20.59	-	-
9	.4268	27.36	Qp	0	.1	9.3	36.76	57.32	-20.56	-	-
11	.8025	23.72	Qp	0	.1	9.3	33.12	56	-22.88	-	-
13	6.243	24.96	Qp	0	.1	9.3	34.36	60	-25.64	-	-
15	13.56	6.9	Qp	.1	.2	9.3	16.5	60	-43.5	-	-
17	24.9855	14.4	Qp	.2	.3	9.4	24.3	60	-35.7	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2_LISN dB	C2&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
20	.1916	19.33	Ca	0	0	9.4	28.73	-	-	53.97	-25.24
22	.2558	11.44	Ca	0	0	9.3	20.74	-	-	51.57	-30.83
24	.3165	6.21	Ca	0	0	9.3	15.51	-	-	49.8	-34.29
26	.3818	3.71	Ca	0	.1	9.3	13.11	-	-	48.24	-35.13
28	.4425	1.11	Ca	0	.1	9.3	10.51	-	-	47.01	-36.5
30	1.9635	4.45	Ca	0	.1	9.3	13.85	-	-	46	-32.15
32	6.2576	14.59	Ca	0	.1	9.3	23.99	-	-	50	-26.01
34	13.56	-1.16	Ca	.1	.2	9.3	8.44	-	-	50	-41.56
36	24.7898	10.68	Ca	.2	.3	9.4	20.58	-	-	50	-29.42
19	.1523	44.03	Qp	0	0	9.4	53.43	65.88	-12.45	-	-
21	.2085	37.89	Qp	0	0	9.4	47.29	63.26	-15.97	-	-
23	.2738	32.31	Qp	0	0	9.3	41.61	61	-19.39	-	-
25	.3413	28.08	Qp	0	0	9.3	37.38	59.17	-21.79	-	-
27	.402	25.01	Qp	0	.1	9.3	34.41	57.81	-23.4	-	-
29	1.968	16.1	Qp	0	.1	9.3	25.5	56	-30.5	-	-
31	6.2633	24.56	Qp	0	.1	9.3	33.96	60	-26.04	-	-
33	13.56	8.78	Qp	.1	.2	9.3	18.38	60	-41.62	-	-
35	24.7898	17.13	Qp	.2	.3	9.4	27.03	60	-32.97	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 14523778-EP1V1 for setup photos

END OF TEST REPORT