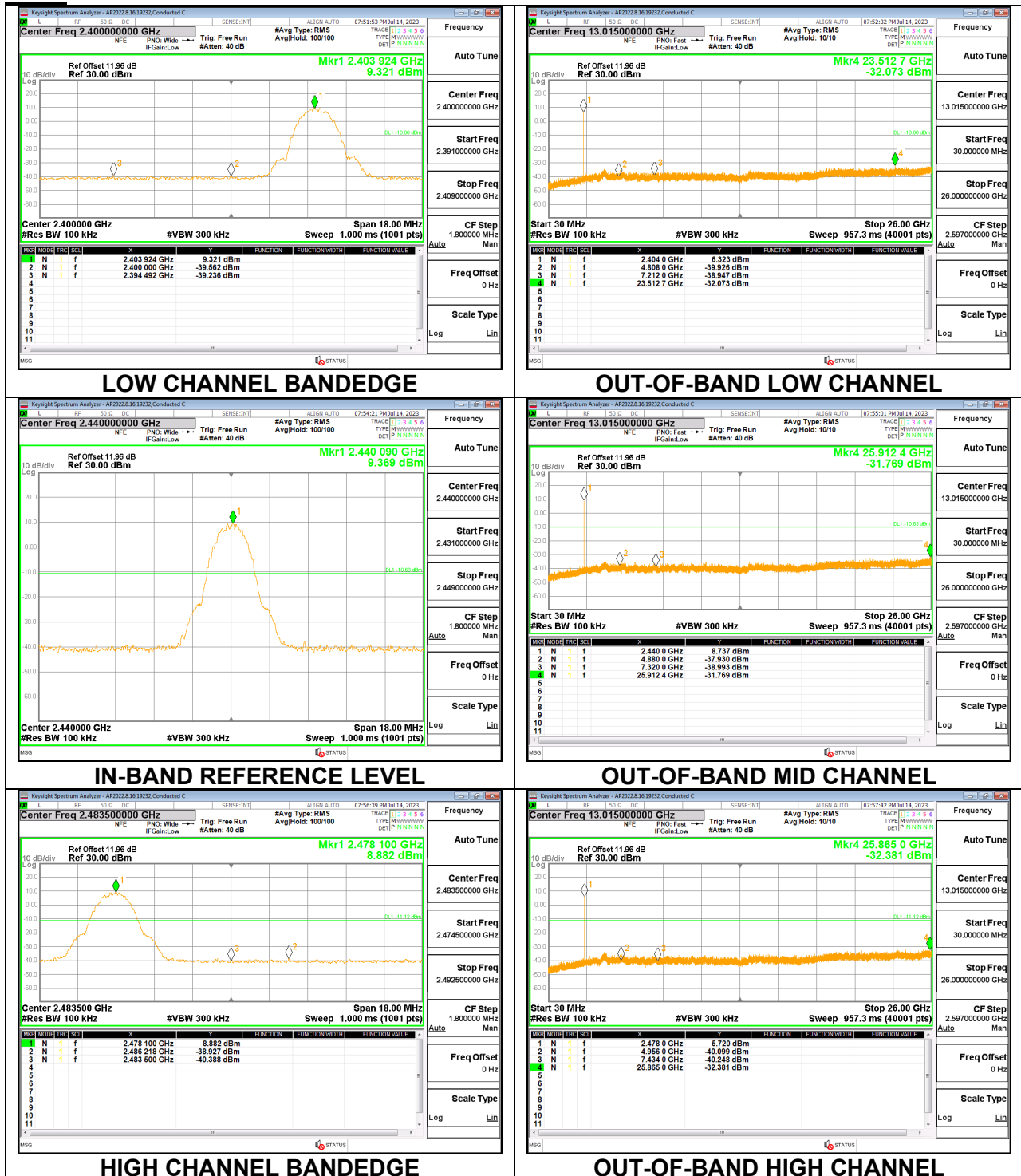
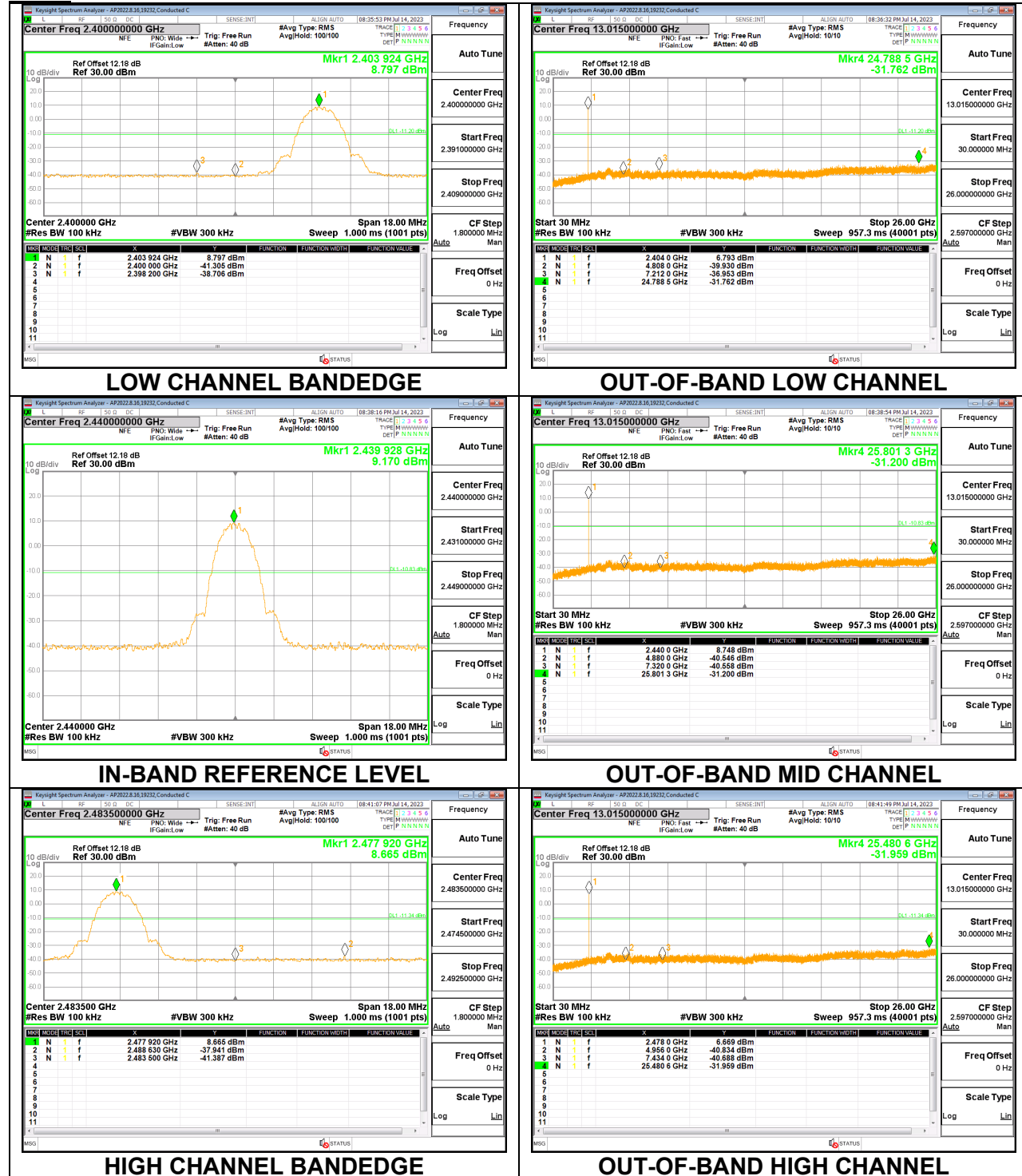


9.7.7. LOW POWER BLE (2Mbps)

ANT 4



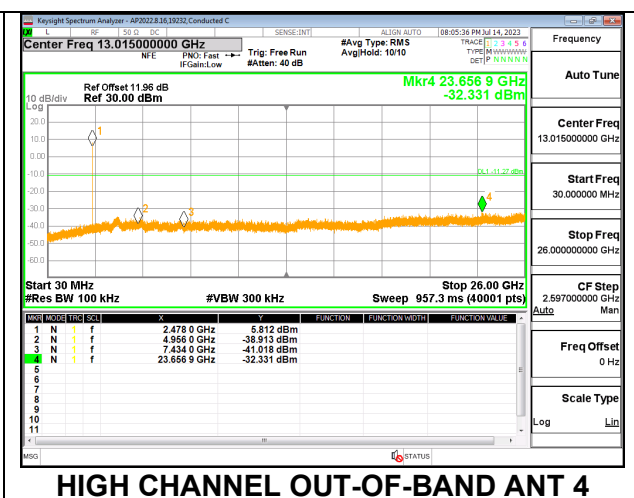
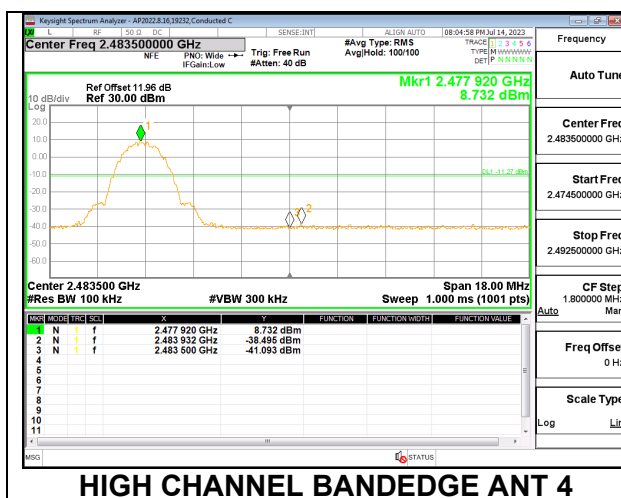
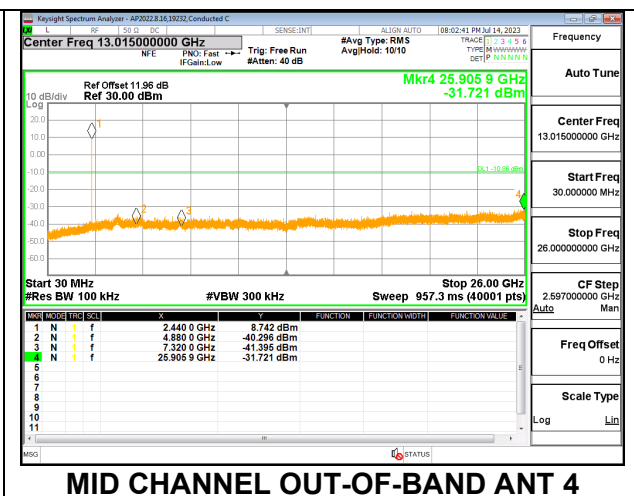
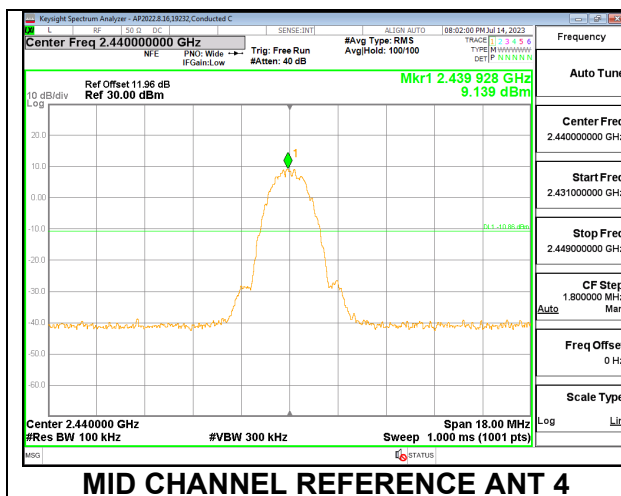
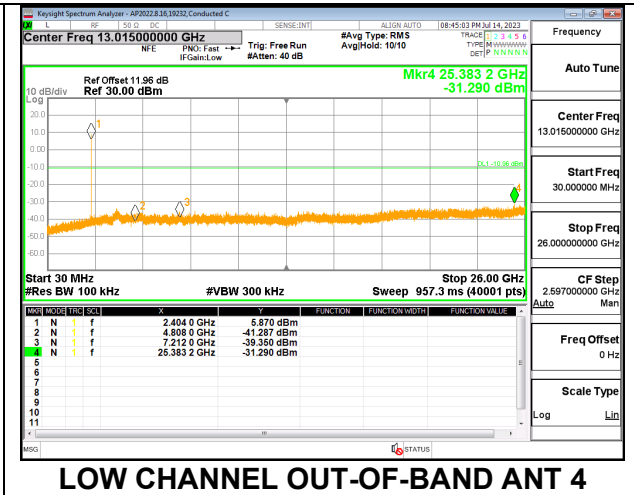
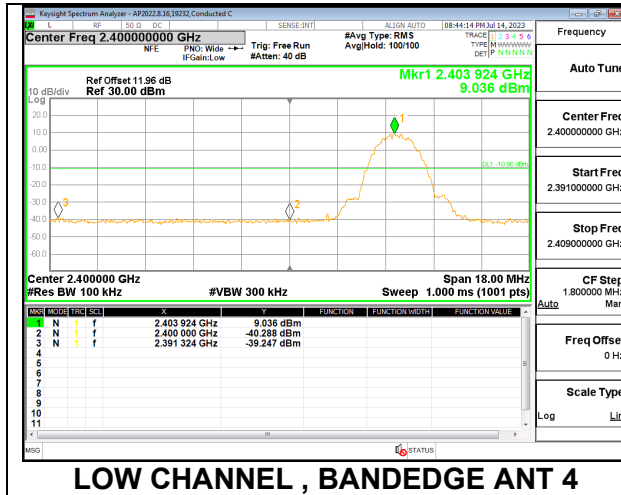
ANT 3

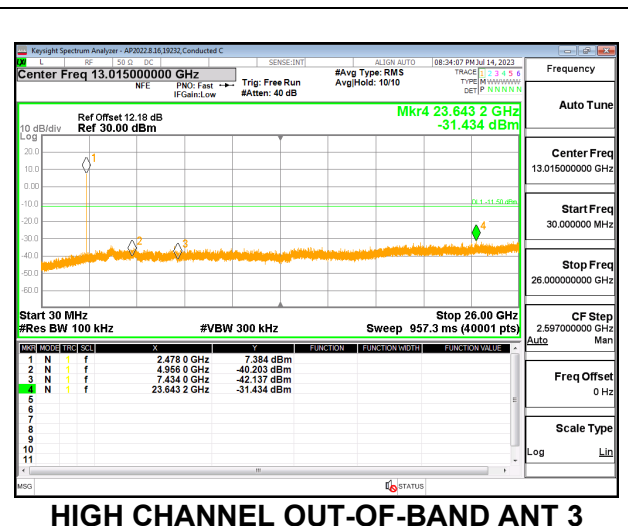
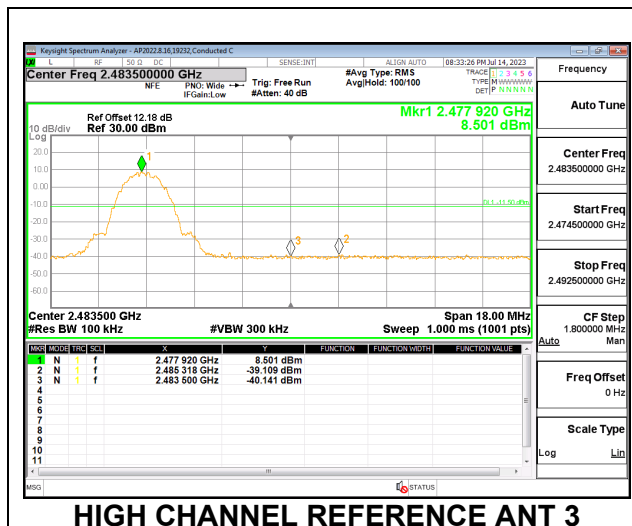
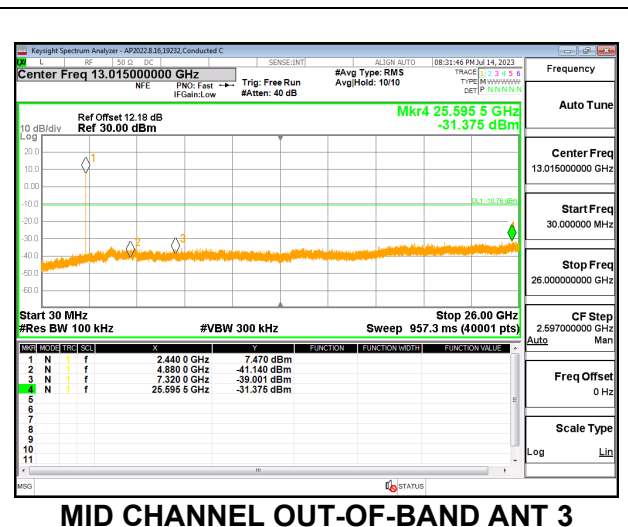
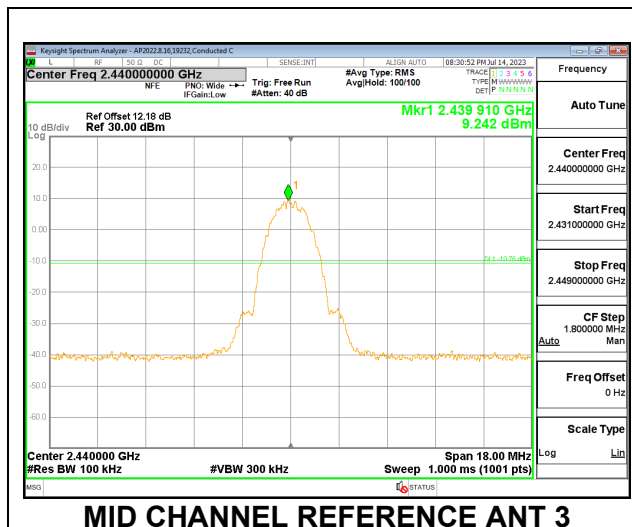
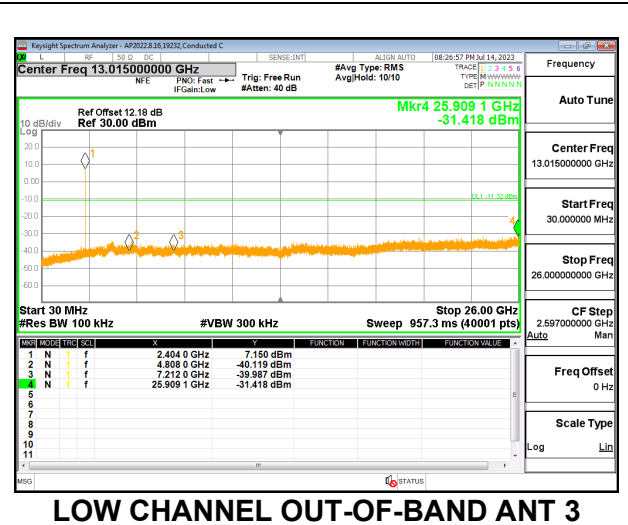
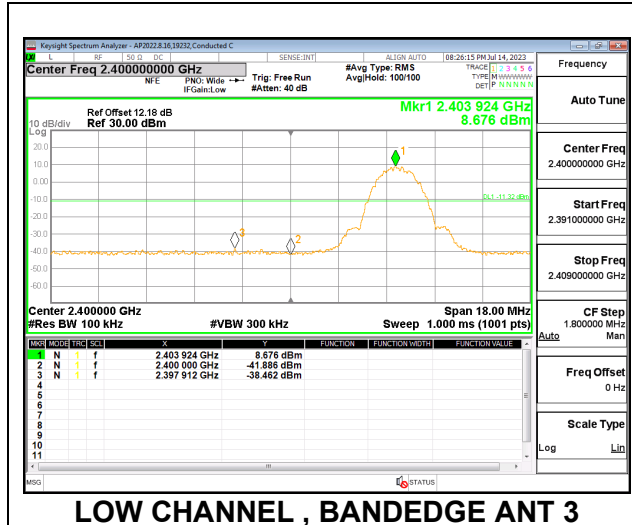


9.7.8. LOW POWER BLE TXBF (2Mbps)

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

ANT 4



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.

RESULTS

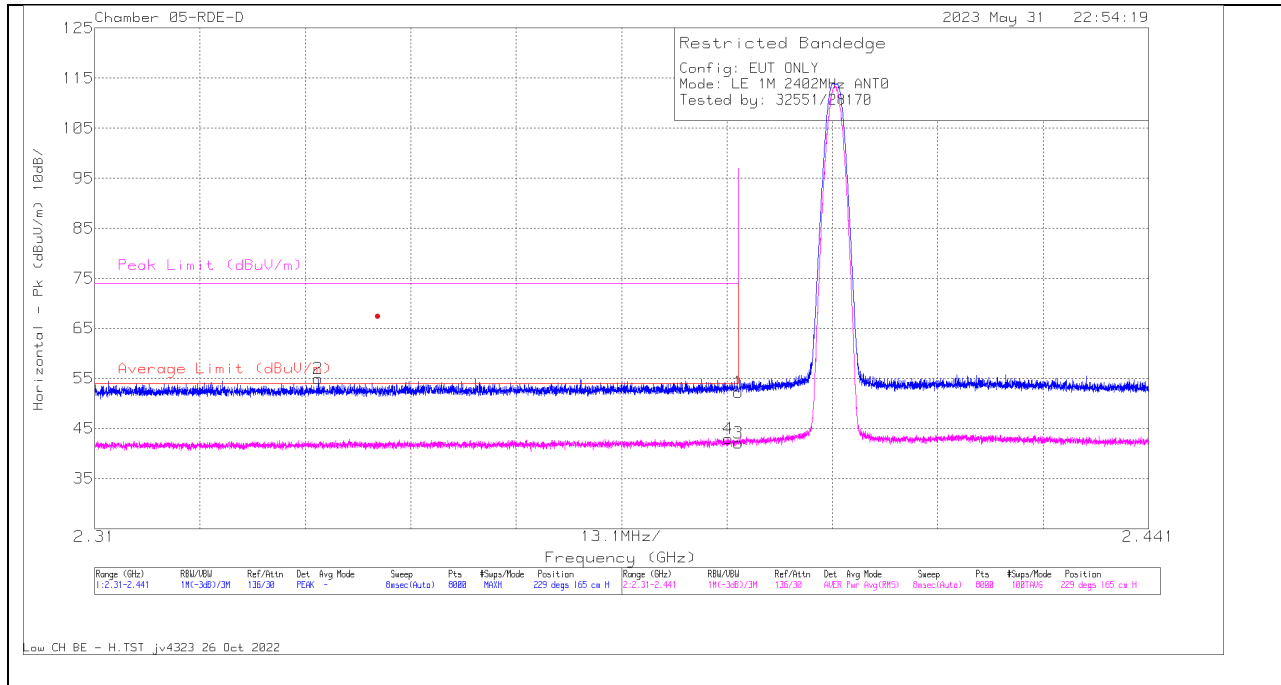
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. HIGH POWER BLE (1Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

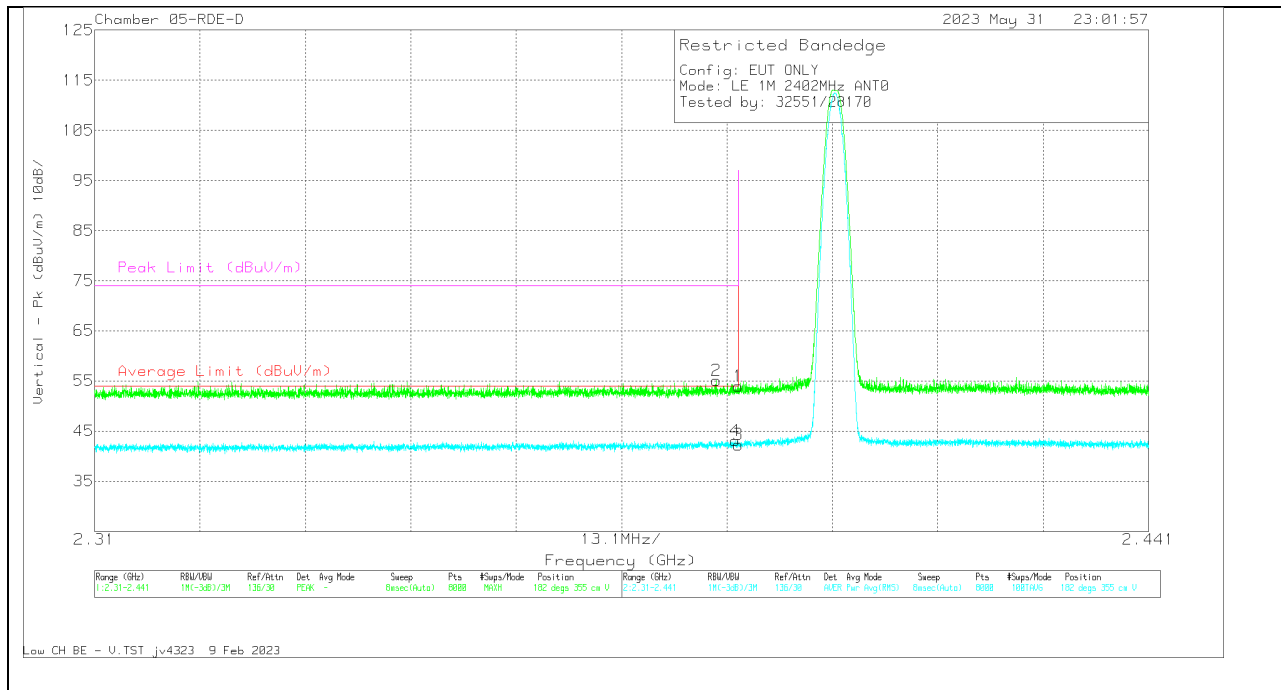


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.337792	63.41	Pk	32.2	-40.66	54.95	-	-	74	-19.05	229	165	H
4	2.388757	51.13	RMS	32.5	-40.65	42.98	54	-11.02	-	-	229	165	H
1	2.39	60.45	Pk	32.5	-40.67	52.28	-	-	74	-21.72	229	165	H
3	2.39	50.25	RMS	32.5	-40.67	42.08	54	-11.92	-	-	229	165	H

Pk - Peak detector

RMS - RMS detection

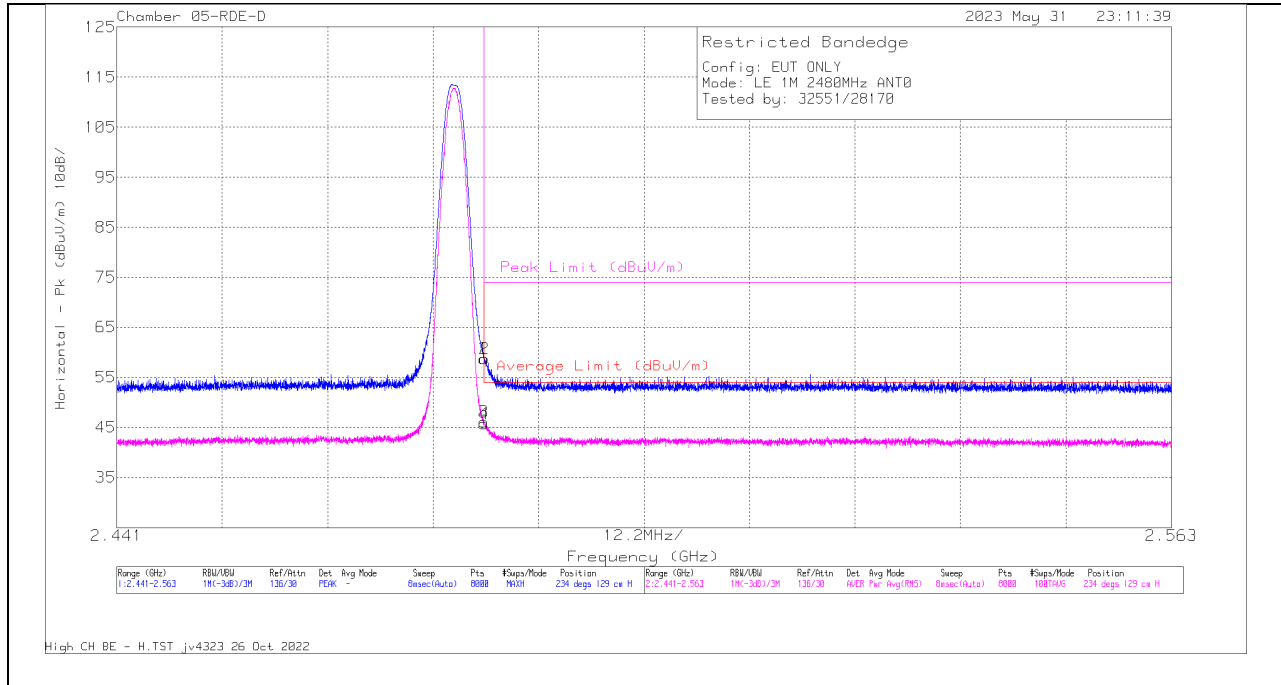
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.38725	63.26	Pk	32.5	-40.65	55.11	-	-	74	-18.89	182	355	V
4	2.389625	51.31	RMS	32.5	-40.67	43.14	54	-10.86	-	-	182	355	V
1	2.39	62.14	Pk	32.5	-40.67	53.97	-	-	74	-20.03	182	355	V
3	2.39	50.45	RMS	32.5	-40.67	42.28	54	-11.72	-	-	182	355	V

Pk - Peak detector

RMS - RMS detection

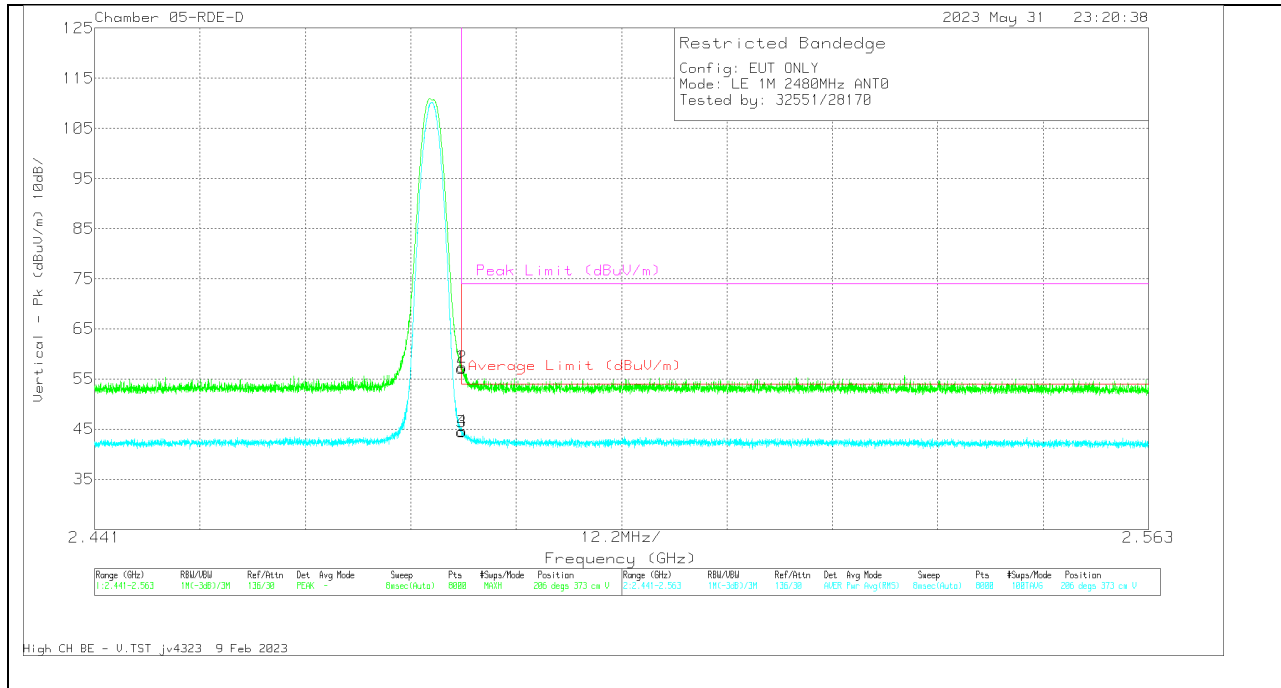
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	80402 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	2.4835	66.6	Pk	32.5	-40.38	58.72	-	-	74	-15.28	234	129	H
3	2.4835	53.93	RMS	32.5	-40.38	46.05	54	-7.95	-	-	234	129	H
4	2.483507	53.63	RMS	32.5	-40.37	45.76	54	-8.24	-	-	234	129	H
2	2.483538	66.6	Pk	32.5	-40.37	58.73	-	-	74	-15.27	234	129	H

Pk - Peak detector

RMS - RMS detection

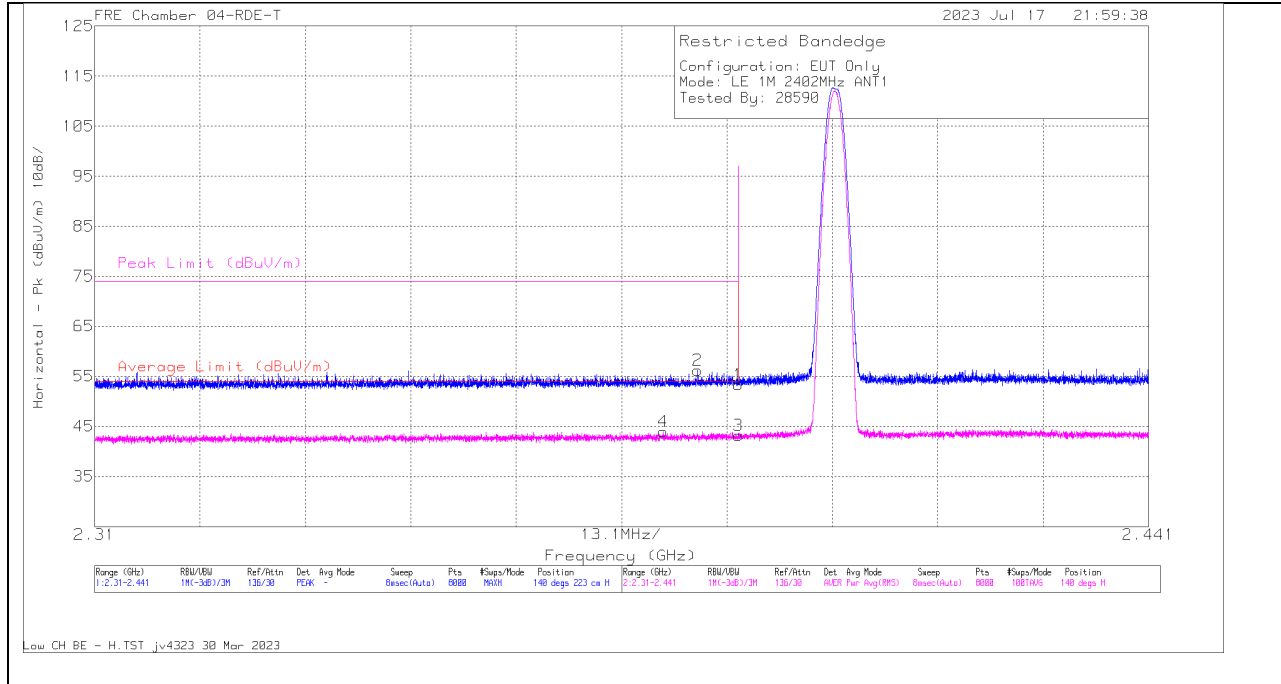
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	65.04	Pk	32.5	-40.38	57.16	-	-	74	-16.84	206	373	V
3	2.4835	52.36	RMS	32.5	-40.38	44.48	54	-9.52	-	-	206	373	V
2	2.483523	65.17	Pk	32.5	-40.37	57.3	-	-	74	-16.7	206	373	V
4	2.483523	52.51	RMS	32.5	-40.37	44.64	54	-9.36	-	-	206	373	V

Pk - Peak detector

RMS - RMS detection

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

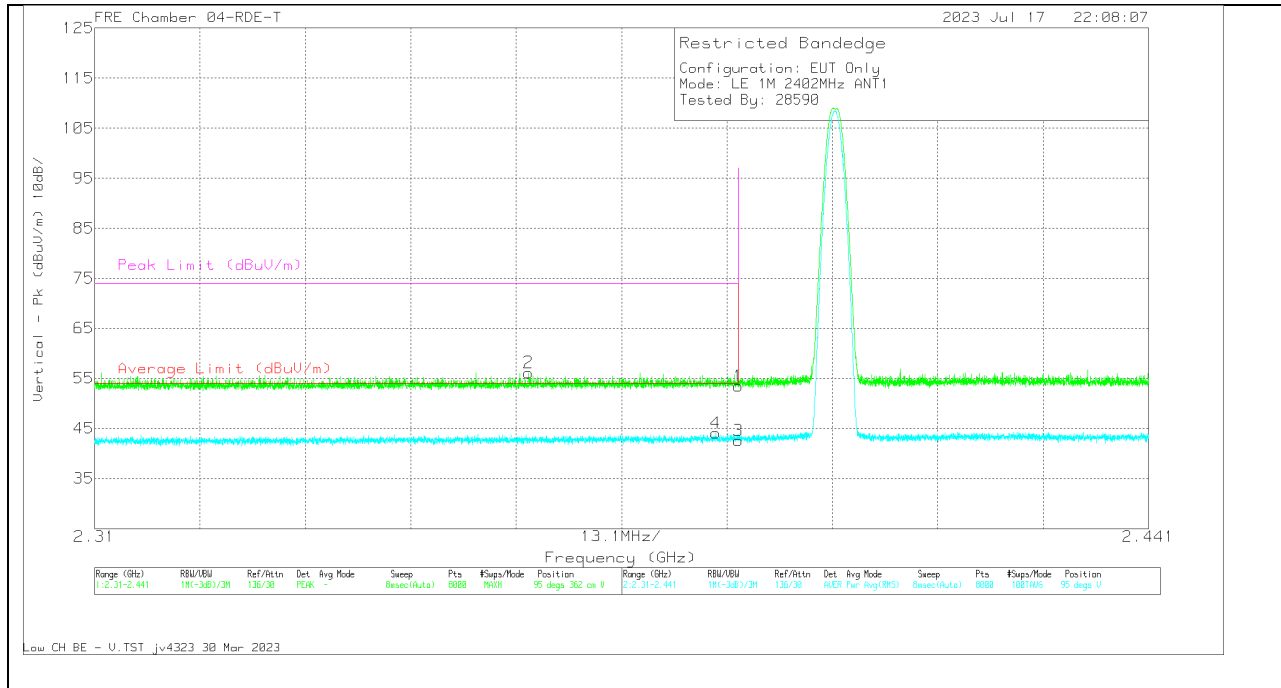
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.17	Pk	32.1	-37.89	53.38	-	-	74	-20.62	140	223	H
2	* 2.384974	62.04	Pk	32.1	-37.87	56.27	-	-	74	-17.73	140	223	H
3	* 2.39	49.02	RMS	32.1	-37.89	43.23	54	-10.77	-	-	140	223	H
4	* 2.380634	49.76	RMS	32.1	-37.87	43.99	54	-10.01	-	-	140	223	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

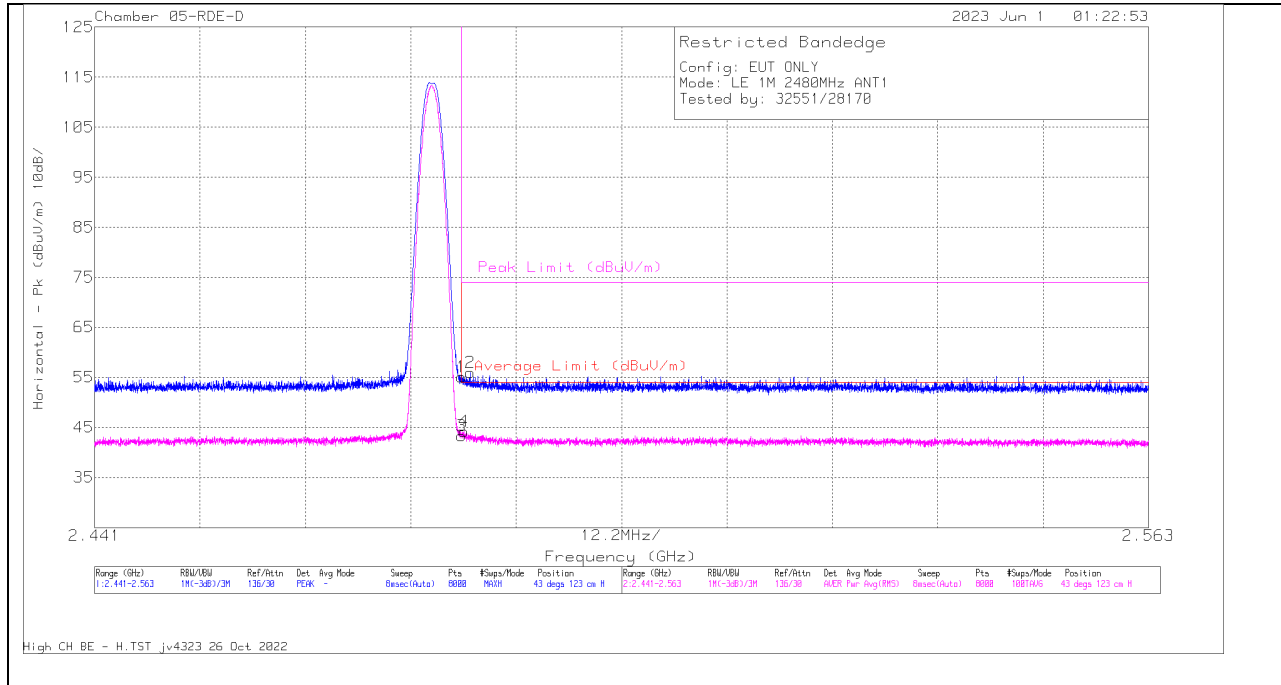


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.23	Pk	32.1	-37.89	53.44	-	-	74	-20.56	95	362	V
2	* 2.363962	62.04	Pk	32	-37.88	56.16	-	-	74	-17.84	95	362	V
3	* 2.39	48.41	RMS	32.1	-37.89	42.62	54	-11.38	-	-	95	362	V
4	* 2.387185	49.85	RMS	32.1	-37.86	44.09	54	-9.91	-	-	95	362	V

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

Pk - Peak detector

RMS - RMS detection

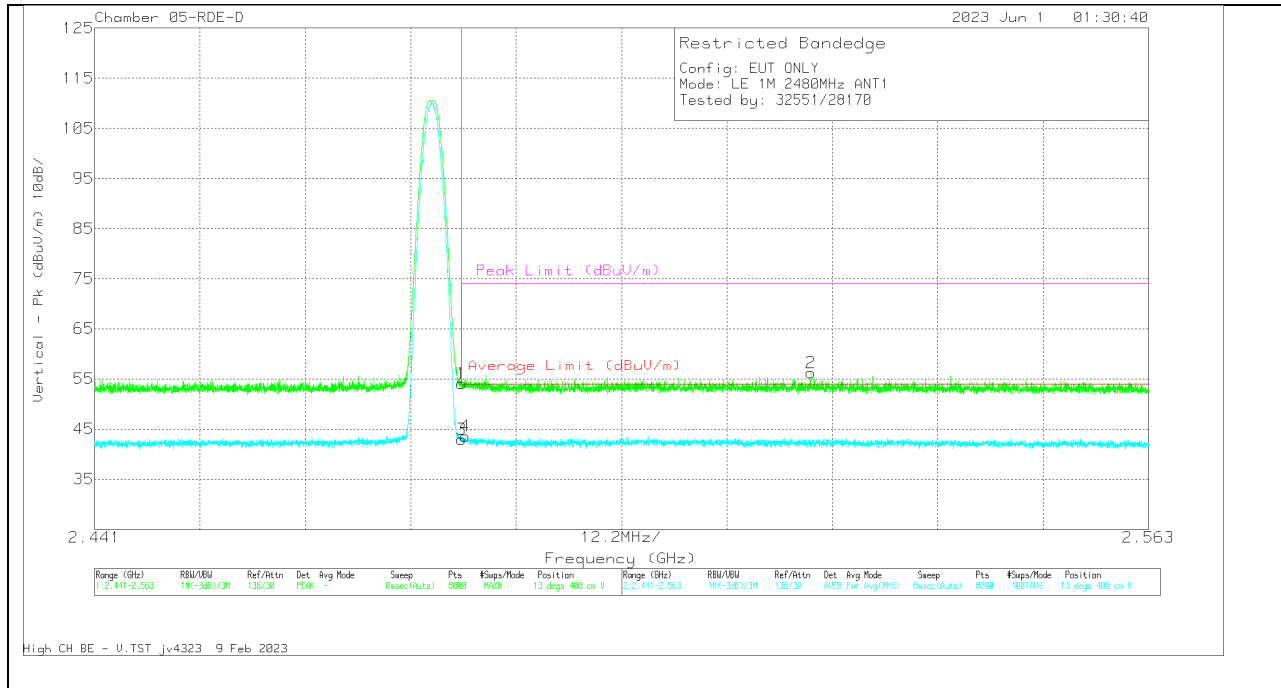
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	62.94	Pk	32.5	-40.38	55.06	-	-	74	-18.94	43	123	H
3	2.4835	51.27	RMS	32.5	-40.38	43.39	54	-10.61	-	-	43	123	H
4	2.483797	51.98	RMS	32.5	-40.32	44.16	54	-9.84	-	-	43	123	H
2	2.484453	63.79	Pk	32.5	-40.28	56.01	-	-	74	-17.99	43	123	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	61.95	Pk	32.5	-40.38	54.07	-	-	74	-19.93	13	400	V
3	2.4835	50.82	RMS	32.5	-40.38	42.94	54	-11.06	-	-	13	400	V
4	2.483904	51.35	RMS	32.5	-40.3	43.55	54	-10.45	-	-	13	400	V
2	2.523895	63.85	Pk	32.6	-40.22	56.23	-	-	74	-17.77	13	400	V

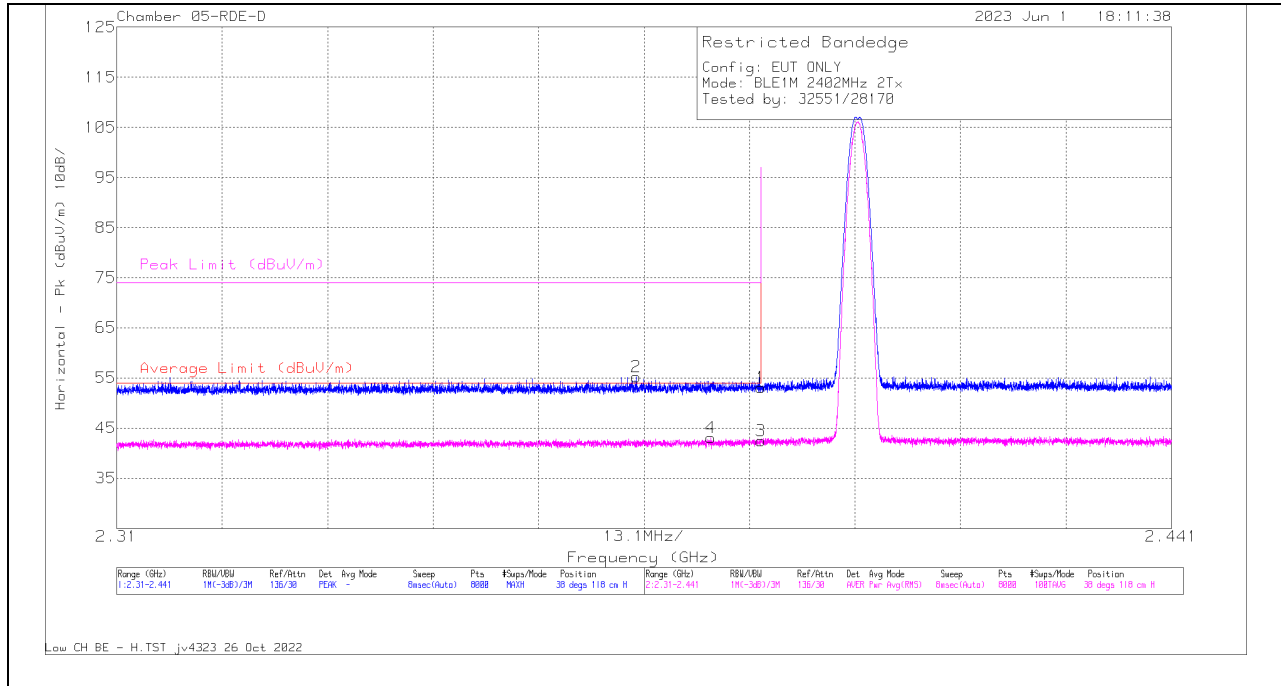
Pk - Peak detector

RMS - RMS detection

10.2.2. HIGH POWER BLE TXBF (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

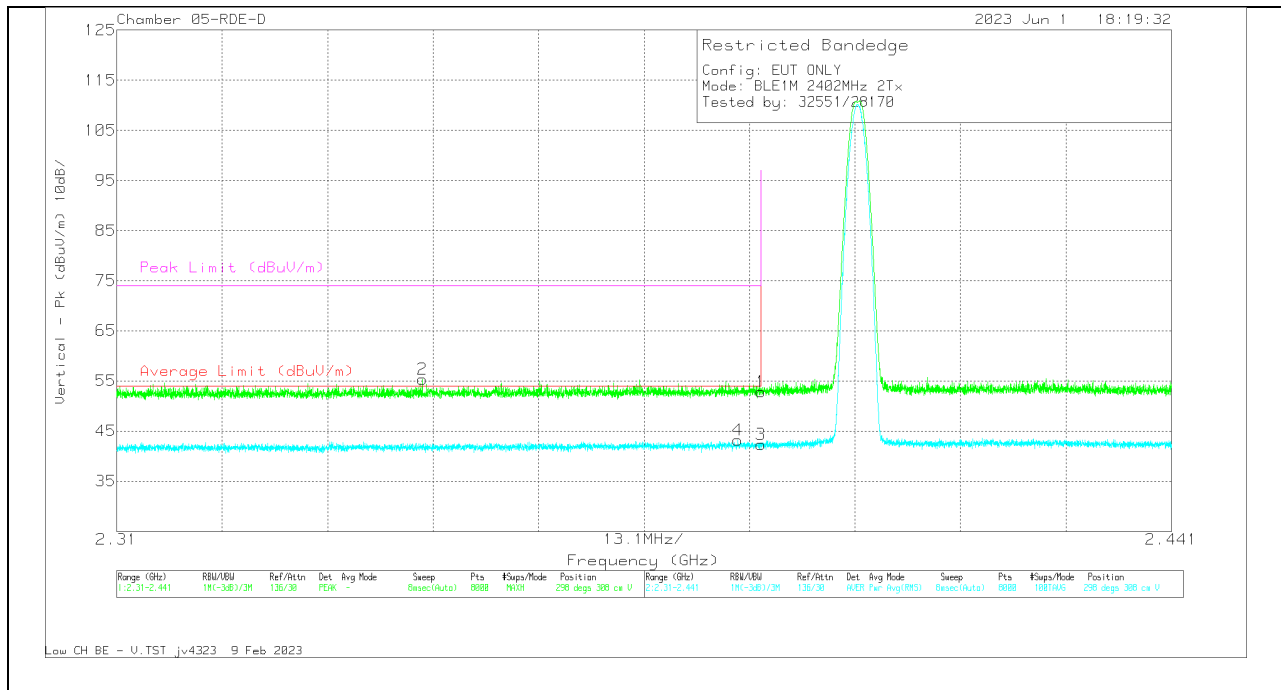


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACP(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.374558	63.43	Pk	32.4	-40.61	55.22	-	-	74	-18.78	38	118	H
4	2.383795	51.31	RMS	32.4	-40.65	43.06	54	-10.94	-	-	38	118	H
1	2.39	61.32	Pk	32.5	-40.67	53.15	-	-	74	-20.85	38	118	H
3	2.39	50.63	RMS	32.5	-40.67	42.46	54	-11.54	-	-	38	118	H

Pk - Peak detector

RMS - RMS detection

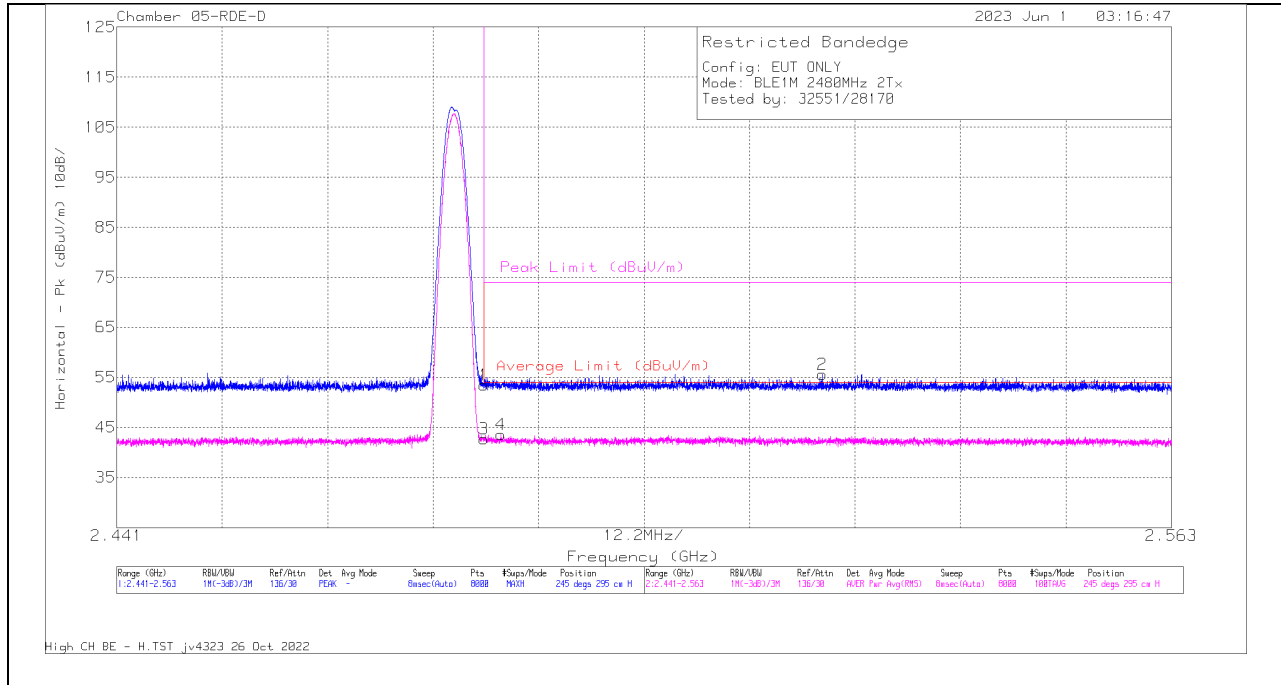
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.347946	63.68	Pk	32.3	-40.65	55.33	-	-	74	-18.67	298	308	V
4	2.387152	51.32	RMS	32.5	-40.65	43.17	54	-10.83	-	-	298	308	V
1	2.39	60.97	Pk	32.5	-40.67	52.8	-	-	74	-21.2	298	308	V
3	2.39	50.47	RMS	32.5	-40.67	42.3	54	-11.7	-	-	298	308	V

Pk - Peak detector

RMS - RMS detection

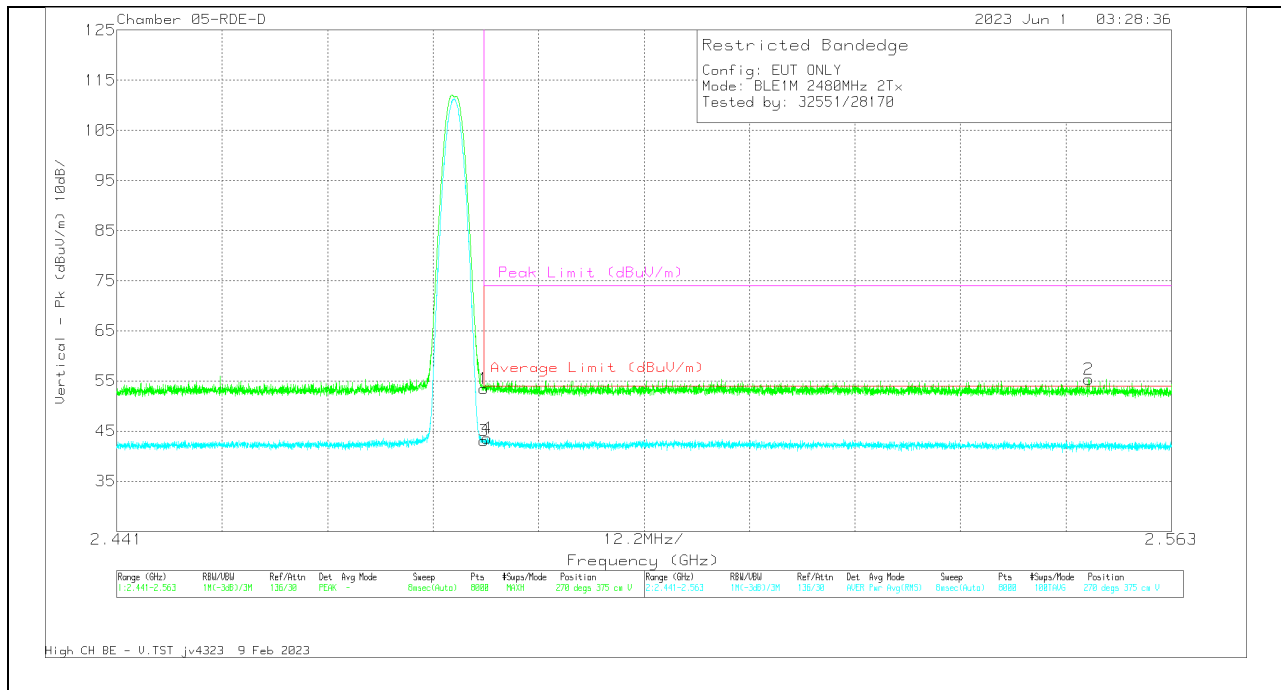
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	61.32	Pk	32.5	-40.38	53.44	-	-	74	-20.56	245	295	H
3	2.4835	50.65	RMS	32.5	-40.38	42.77	54	-11.23	-	-	245	295	H
4	2.485444	51.41	RMS	32.5	-40.28	43.63	54	-10.37	-	-	245	295	H
2	2.522598	63.26	Pk	32.6	-40.26	55.6	-	-	74	-18.4	245	295	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

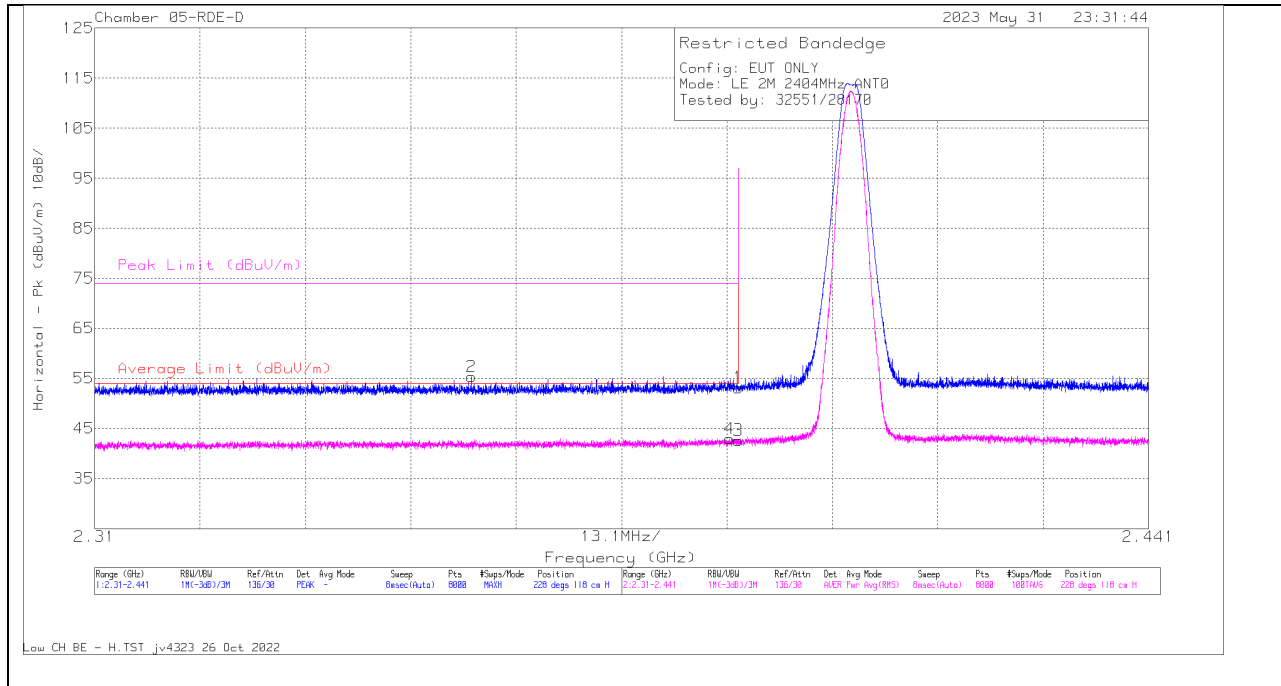


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.31	Pk	32.5	-40.38	53.43	-	-	74	-20.57	270	375	V
3	2.4835	50.92	RMS	32.5	-40.38	43.04	54	-10.96	-	-	270	375	V
4	2.483828	51.41	RMS	32.5	-40.31	43.6	54	-10.4	-	-	270	375	V
2	2.553453	63.01	Pk	32.4	-40.1	55.31	-	-	74	-18.69	270	375	V

Pk - Peak detector

RMS - RMS detection

10.2.3. HIGH POWER BLE (2Mbps)

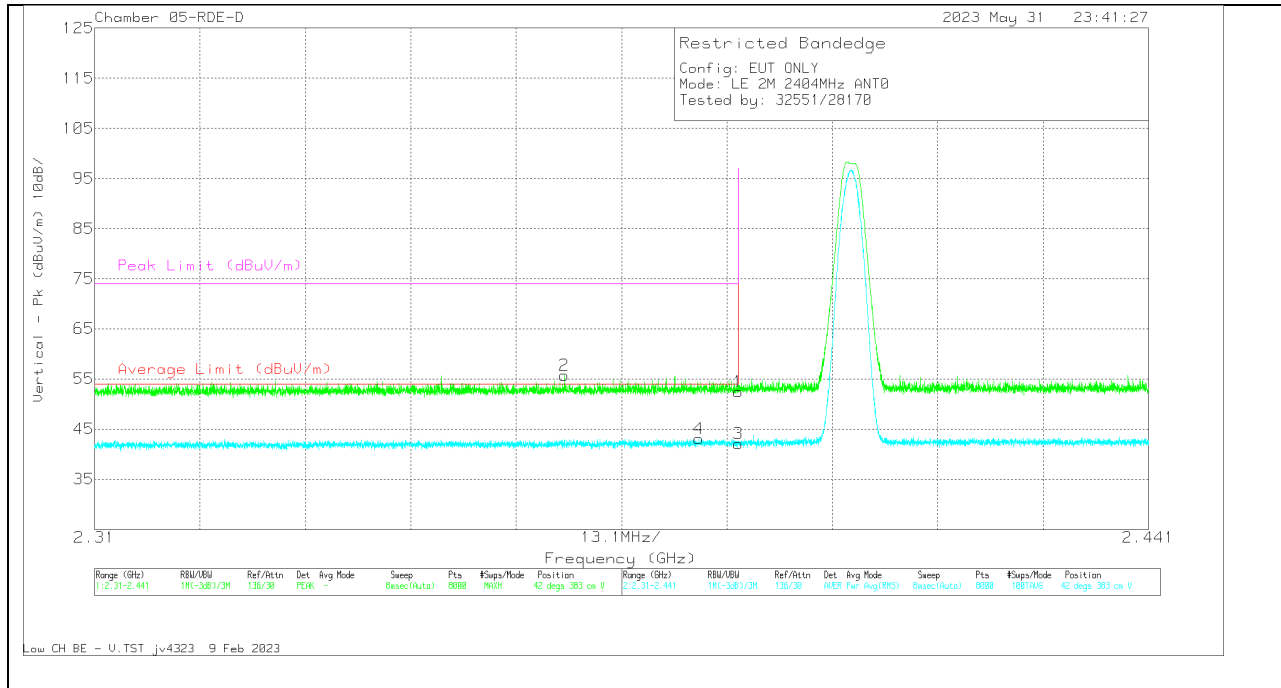
ANT 4**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.356871	63.69	Pk	32.3	-40.6	55.39	-	-	74	-18.61	228	118	H
4	2.388888	51.12	RMS	32.5	-40.66	42.96	54	-11.04	-	-	228	118	H
1	2.39	61.33	Pk	32.5	-40.67	53.16	-	-	74	-20.84	228	118	H
3	2.39	50.82	RMS	32.5	-40.67	42.65	54	-11.35	-	-	228	118	H

Pk - Peak detector

RMS - RMS detection

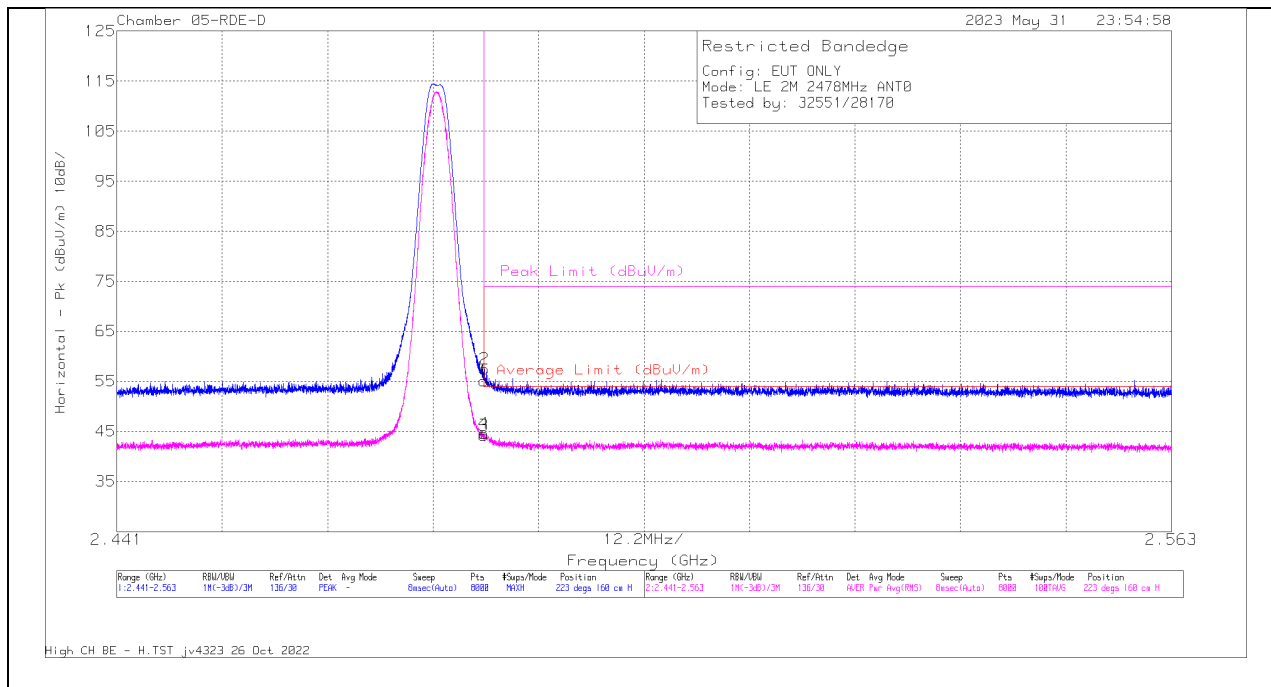
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.368351	63.93	Pk	32.3	-40.55	55.68	-	-	74	-18.32	42	383	V
4	2.385138	51.33	RMS	32.4	-40.68	43.05	54	-10.95	-	-	42	383	V
1	2.39	60.65	Pk	32.5	-40.67	52.48	-	-	74	-21.52	42	383	V
3	2.39	50.26	RMS	32.5	-40.67	42.09	54	-11.91	-	-	42	383	V

Pk - Peak detector

RMS - RMS detection

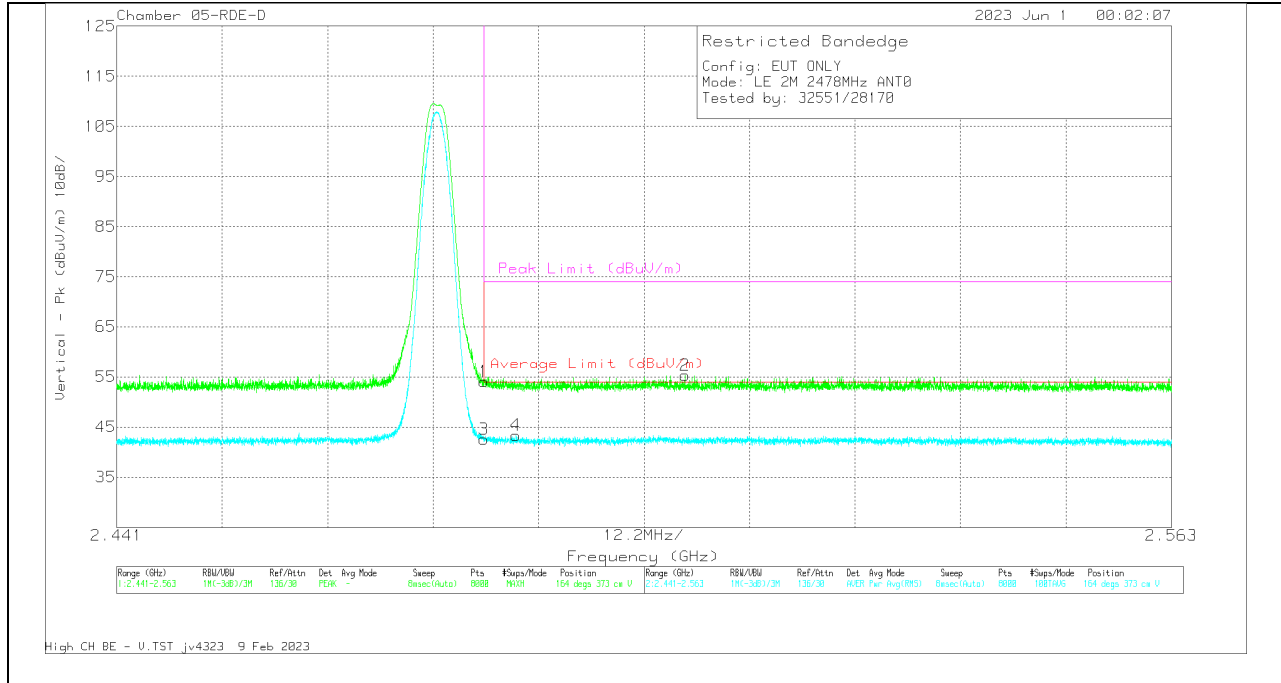
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	62.99	Pk	32.5	-40.38	55.11	-	-	74	-18.89	223	160	H
3	2.4835	52.11	RMS	32.5	-40.38	44.23	54	-9.77	-	-	223	160	H
4	2.483507	52.44	RMS	32.5	-40.37	44.57	54	-9.43	-	-	223	160	H
2	2.483523	65.39	Pk	32.5	-40.37	57.52	-	-	74	-16.48	223	160	H

Pk - Peak detector

RMS - RMS detection

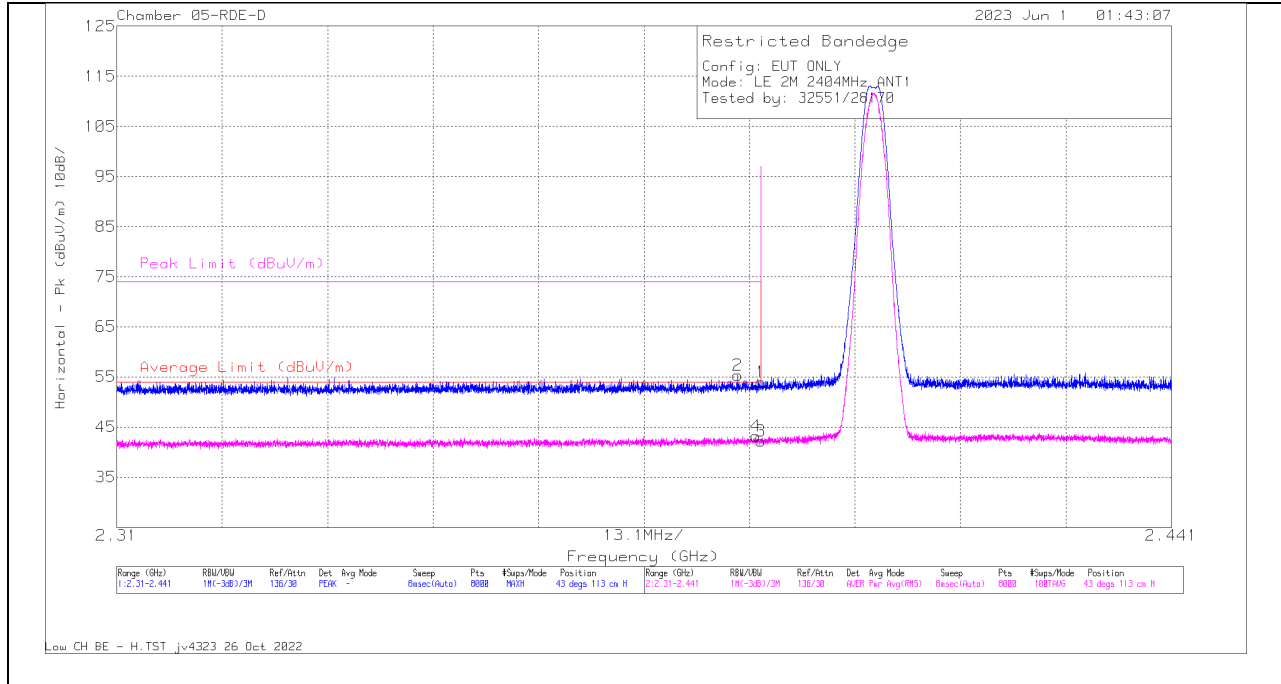
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	61.99	Pk	32.5	-40.38	54.11	-	-	74	-19.89	164	373	V
3	2.4835	50.42	RMS	32.5	-40.38	42.54	54	-11.46	-	-	164	373	V
4	2.487168	51.18	RMS	32.5	-40.28	43.4	54	-10.6	-	-	164	373	V
2	2.506721	63.09	Pk	32.6	-40.39	55.3	-	-	74	-18.7	164	373	V

Pk - Peak detector

RMS - RMS detection

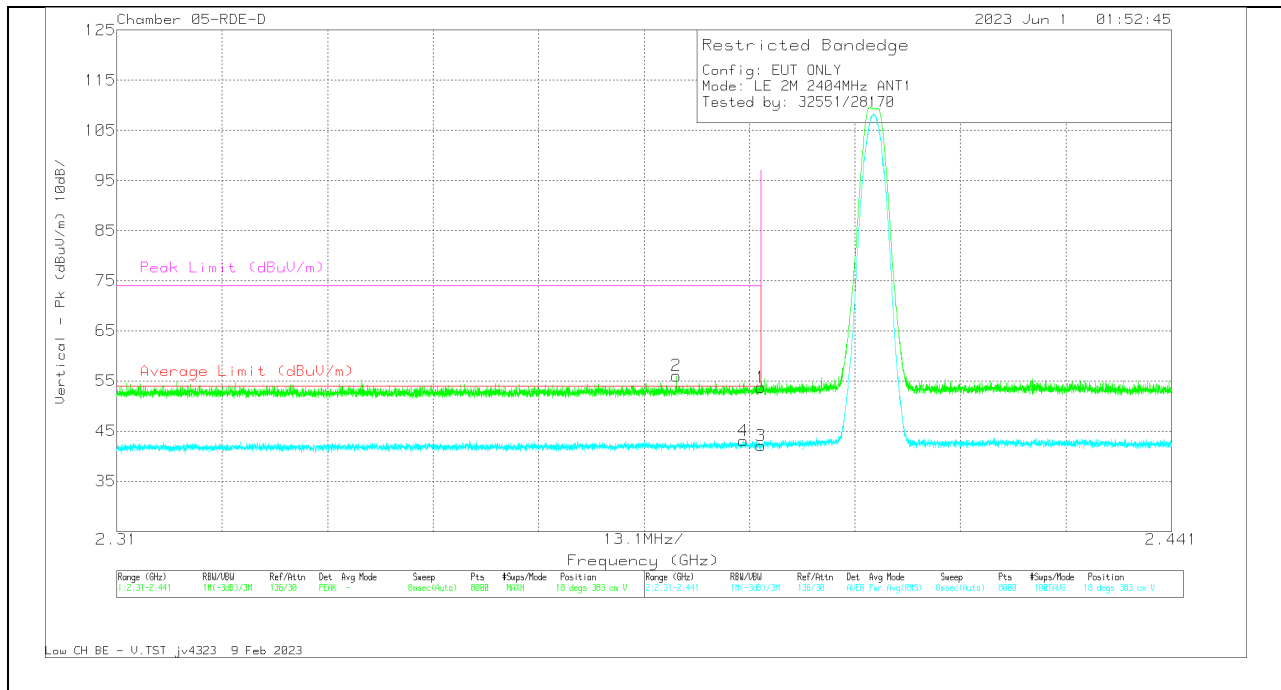
ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACP(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	2.387136	63.55	Pk	32.5	-40.65	55.4	-	-	74	-18.6	43	113	H
4	2.389363	51.35	RMS	32.5	-40.66	43.19	54	-10.81	-	-	43	113	H
1	2.39	62.14	Pk	32.5	-40.67	53.97	-	-	74	-20.03	43	113	H
3	2.39	50.36	RMS	32.5	-40.67	42.19	54	-11.81	-	-	43	113	H

Pk - Peak detector

RMS - RMS detection

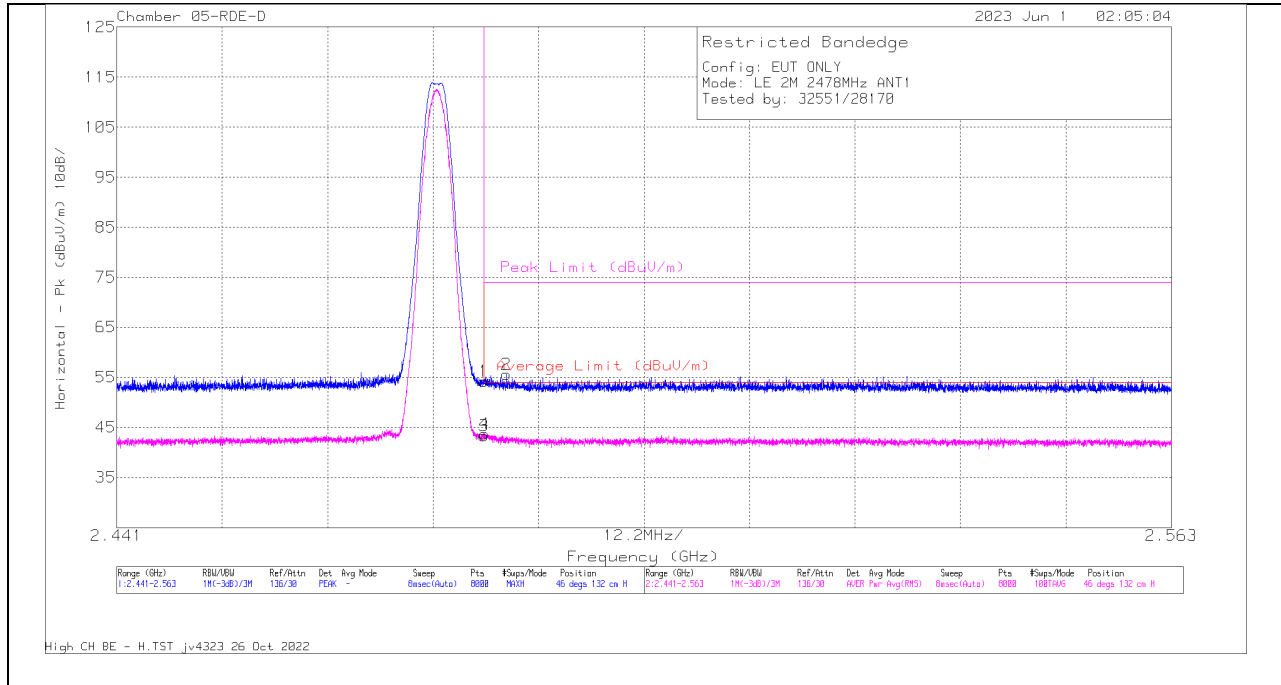
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.379488	64.31	Pk	32.4	-40.67	56.04	-	-	74	-17.96	18	383	V
4	2.38784	51.22	RMS	32.5	-40.63	43.09	54	-10.91	-	-	18	383	V
1	2.39	61.84	Pk	32.5	-40.67	53.67	-	-	74	-20.33	18	383	V
3	2.39	50.25	RMS	32.5	-40.67	42.08	54	-11.92	-	-	18	383	V

Pk - Peak detector

RMS - RMS detection

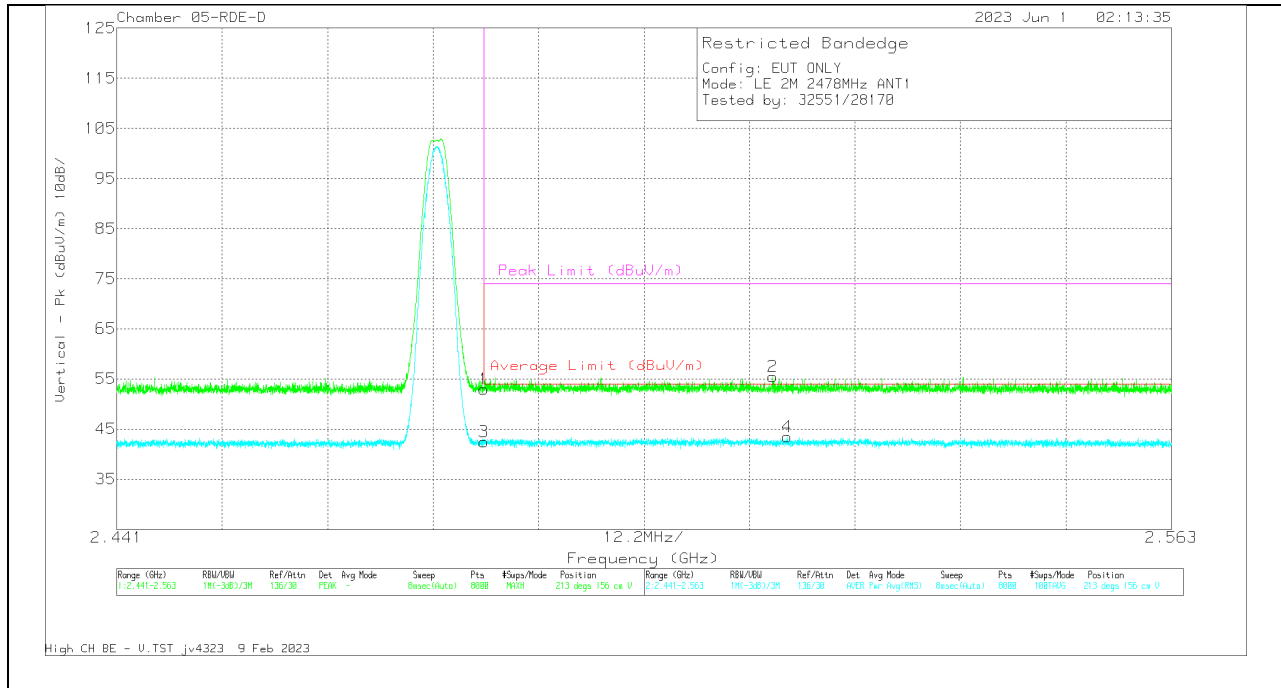
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	62.09	Pk	32.5	-40.38	54.21	-	-	74	-19.79	46	132	H
3	2.4835	51.19	RMS	32.5	-40.38	43.31	54	-10.69	-	-	46	132	H
4	2.48358	51.59	RMS	32.5	-40.37	43.72	54	-10.28	-	-	46	132	H
2	2.486115	63.38	Pk	32.5	-40.26	55.62	-	-	74	-18.38	46	132	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	60.89	Pk	32.5	-40.38	53.01	-	-	74	-20.99	213	156	V
3	2.4835	50.34	RMS	32.5	-40.38	42.46	54	-11.54	-	-	213	156	V
2	2.516879	63.28	Pk	32.6	-40.38	55.5	-	-	74	-18.5	213	156	V
4	2.516857	51.13	RMS	32.6	-40.32	43.41	54	-10.59	-	-	213	156	V

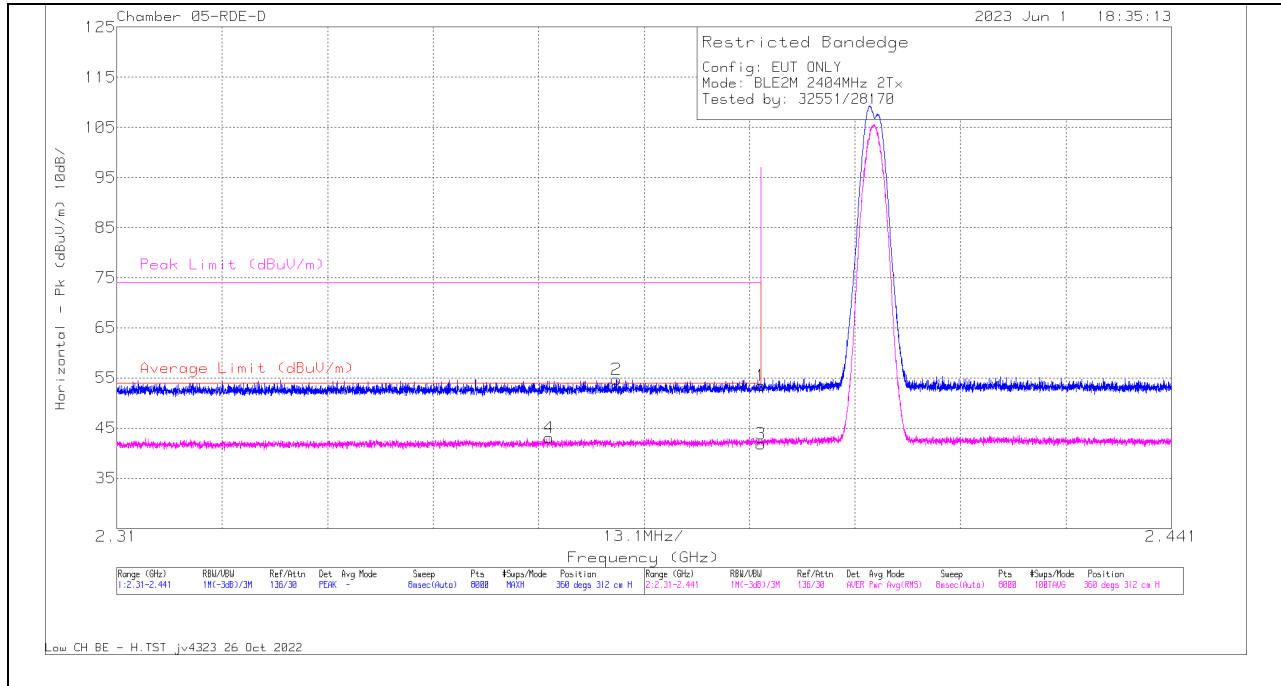
Pk - Peak detector

RMS - RMS detection

10.2.4. HIGH POWER BLE TXBF (2Mbps)

BANDEDGE (LOW CHANNEL)

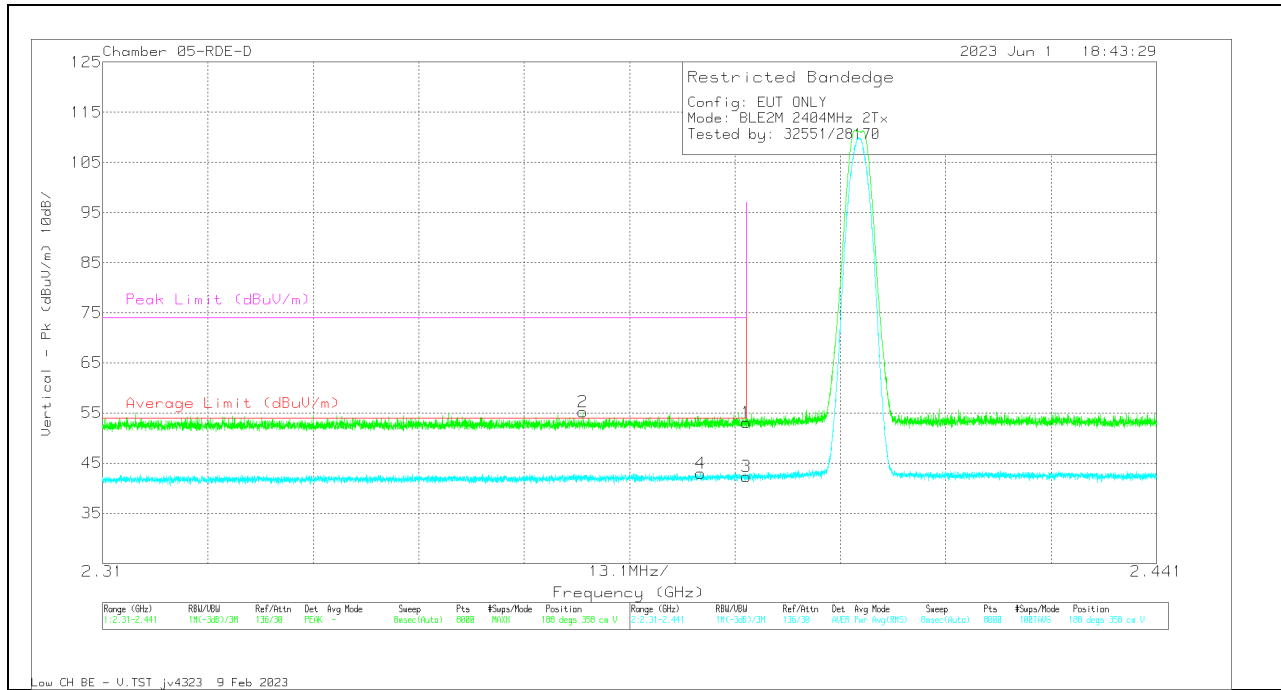
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACP(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
4	2.363684	51.38	RMS	32.3	-40.64	43.04	54	-10.96	-	-	360	312	H
2	2.372069	63.12	Pk	32.4	-40.8	54.72	-	-	74	-19.28	360	312	H
1	2.39	61.66	Pk	32.5	-40.67	53.49	-	-	74	-20.51	360	312	H
3	2.39	49.99	RMS	32.5	-40.67	41.82	54	-12.18	-	-	360	312	H

Pk - Peak detector

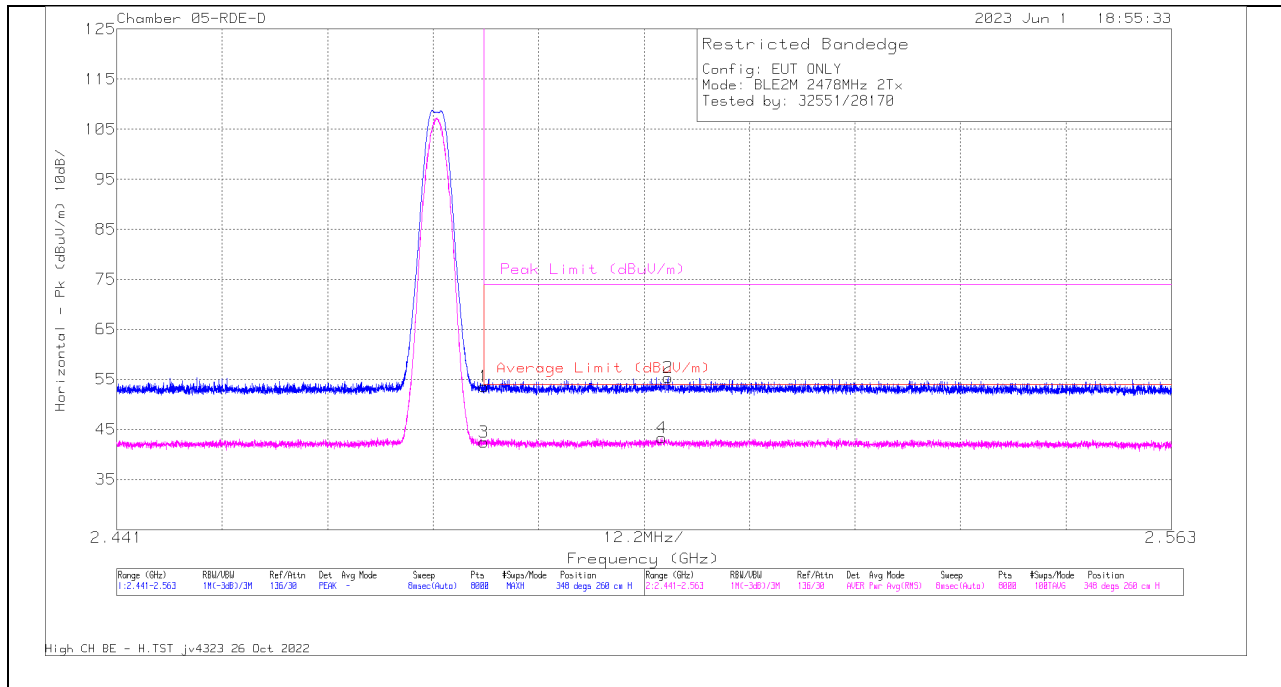
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.369694	63.37	Pk	32.4	-40.6	55.17	-	-	74	-18.83	188	358	V
4	2.384335	51.28	RMS	32.4	-40.66	43.02	54	-10.98	-	-	188	358	V
1	2.39	61.22	Pk	32.5	-40.67	53.05	-	-	74	-20.95	188	358	V
3	2.39	50.52	RMS	32.5	-40.67	42.35	54	-11.65	-	-	188	358	V

Pk - Peak detector

RMS - RMS detection

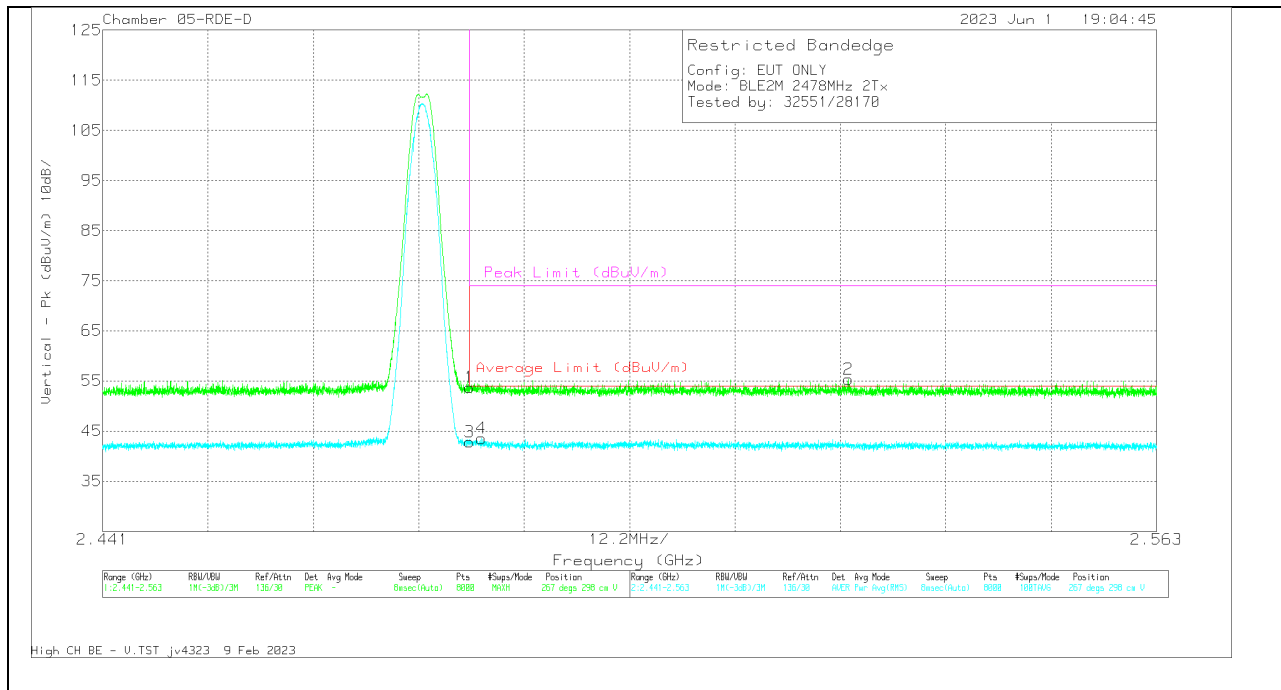
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	61.42	Pk	32.5	-40.38	53.54	-	-	74	-20.46	348	260	H
3	2.4835	50.39	RMS	32.5	-40.38	42.51	54	-11.49	-	-	348	260	H
4	2.504082	50.96	RMS	32.6	-40.19	43.37	54	-10.63	-	-	348	260	H
2	2.504753	63.08	Pk	32.6	-40.28	55.4	-	-	74	-18.6	348	260	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



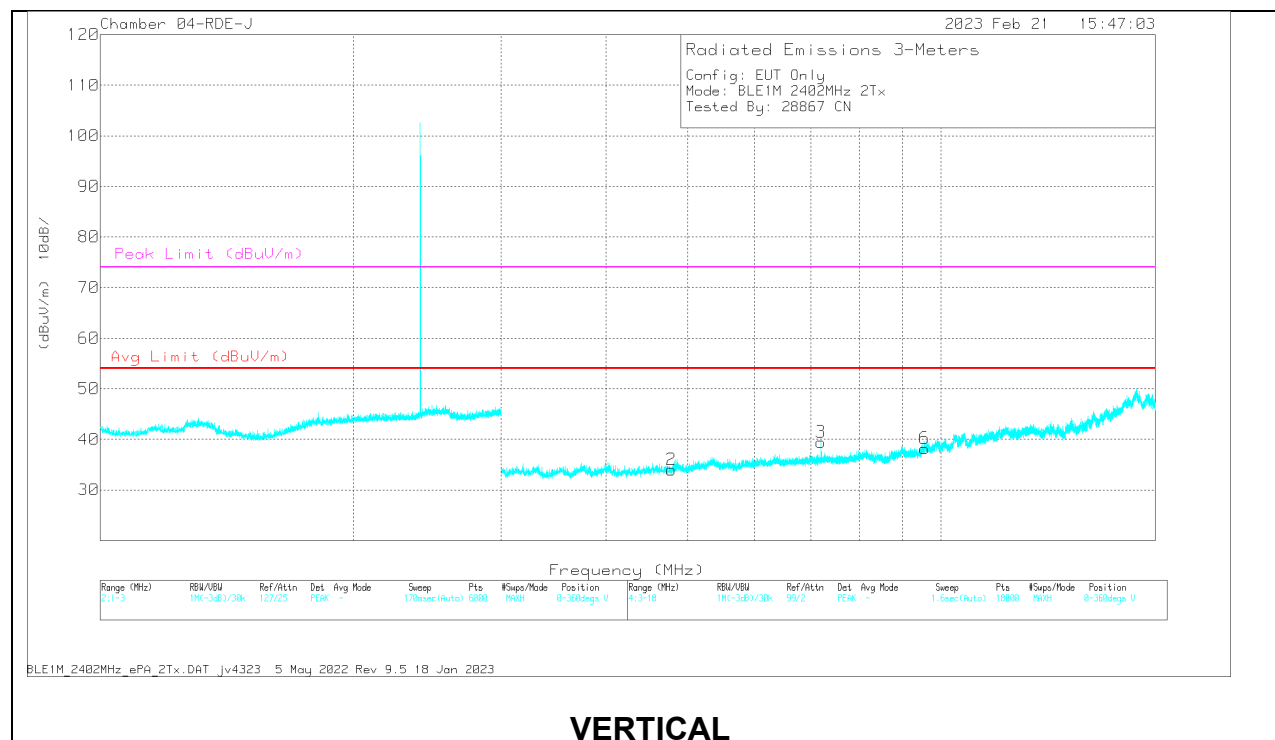
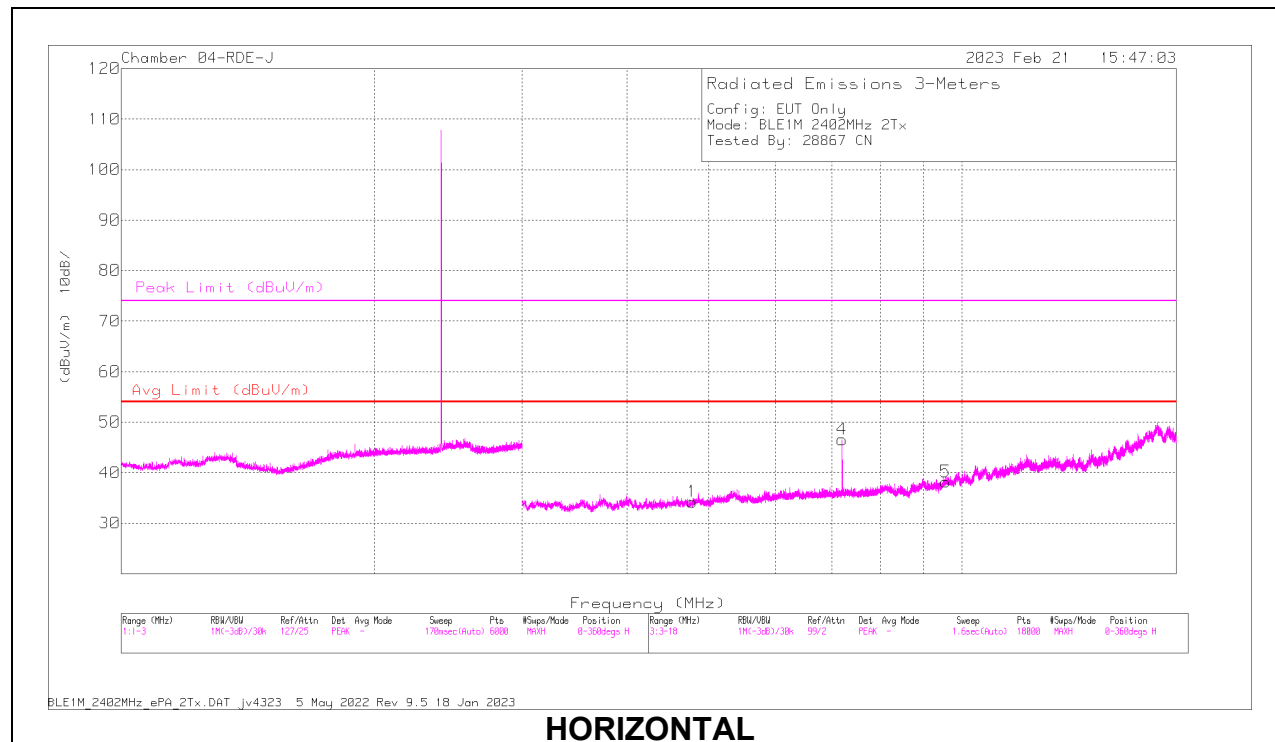
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.58	Pk	32.5	-40.38	53.7	-	-	74	-20.3	267	298	V
3	2.4835	50.68	RMS	32.5	-40.38	42.8	54	-11.2	-	-	267	298	V
4	2.48485	51.32	RMS	32.5	-40.29	43.53	54	-10.47	-	-	267	298	V
2	2.527296	62.89	Pk	32.6	-40.15	55.34	-	-	74	-18.66	267	298	V

Pk - Peak detector

RMS - RMS detection

10.2.5. HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



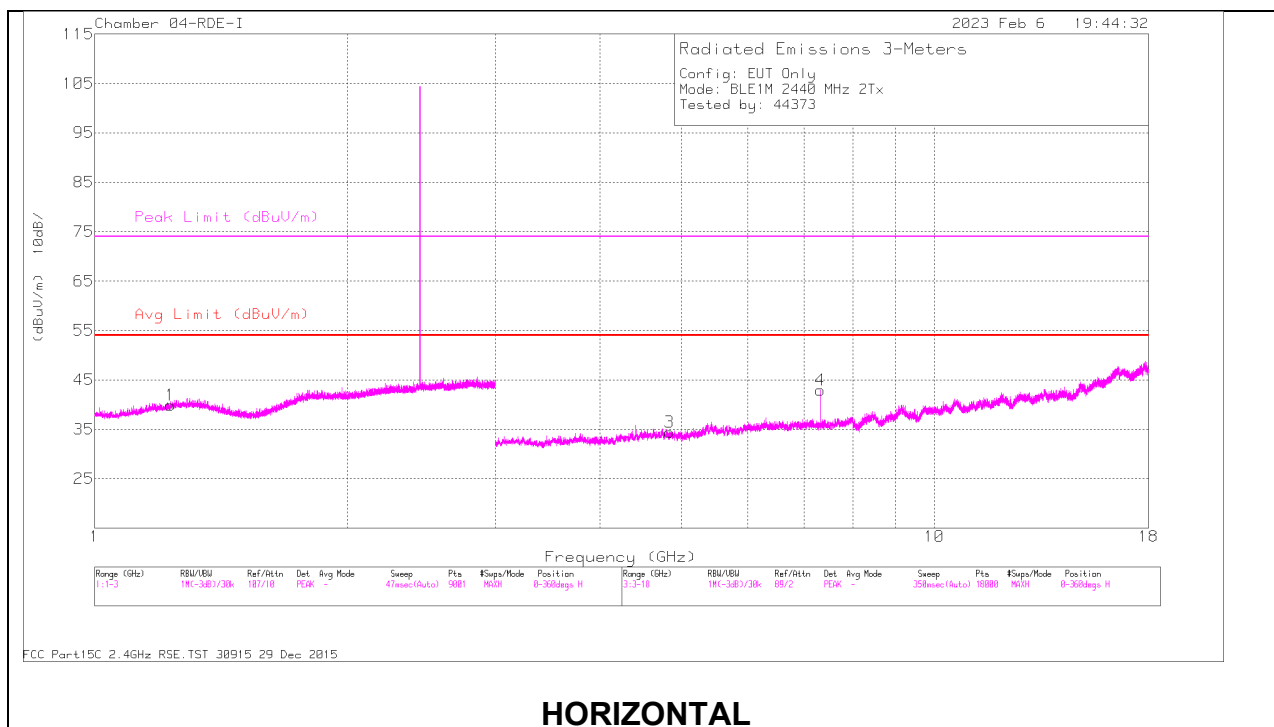
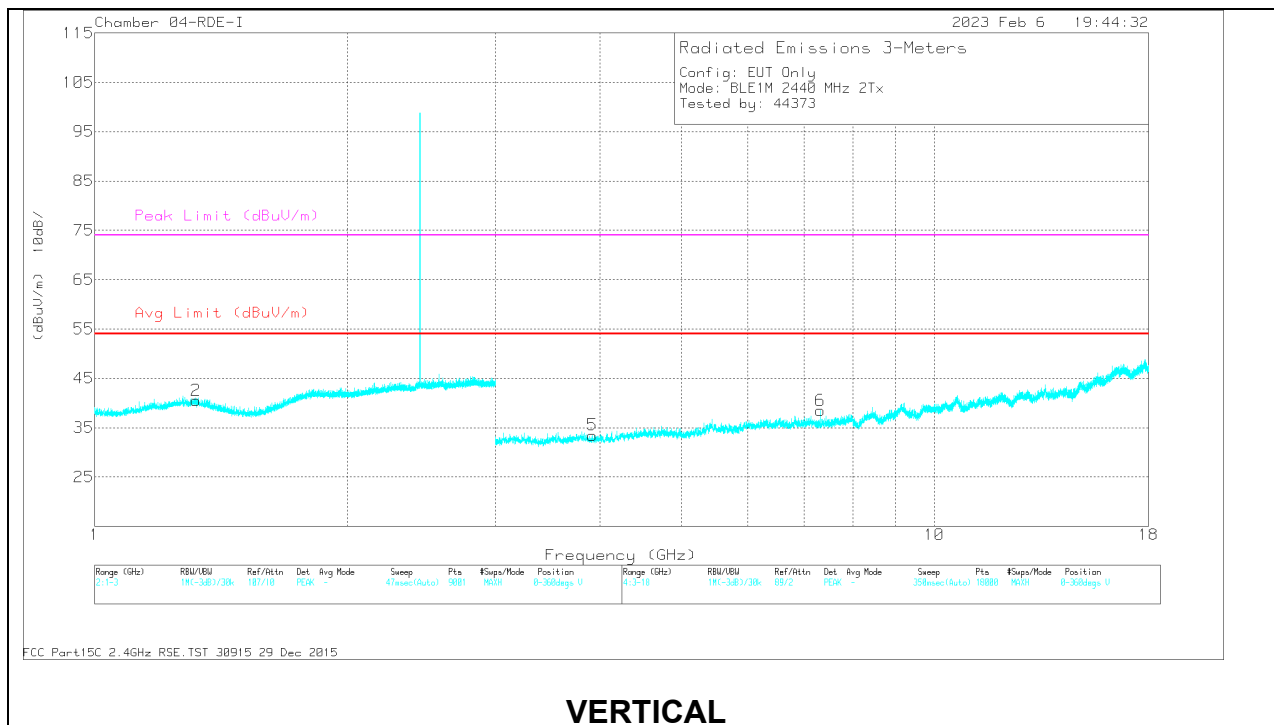
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4781.604	54.36	Pk2	34	-44.8	43.56	-	-	74	-30.44	346	100	H
	*4781.600	43.21	MAv1	34	-44.8	32.41	54	-21.59			346	100	H
4	7206.815	57.11	Pk2	35.8	-40.4	52.51	-	-	-	-	326	117	H
5	9567.808	48.15	Pk2	36.6	-35.8	48.95	-	-	-	-	326	100	H
2	* 4779.024	54.32	Pk2	34	-44.7	43.62	-	-	74	-30.38	326	100	V
	*4779.020	43.05	MAv1	34	-44.7	32.35	54	-21.65			326	100	V
3	7206.55	46.92	Pk2	35.8	-40.4	42.32	-	-	-	-	347	163	V
6	9567.024	47.38	Pk2	36.6	-35.8	48.18	-	-	-	-	347	200	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

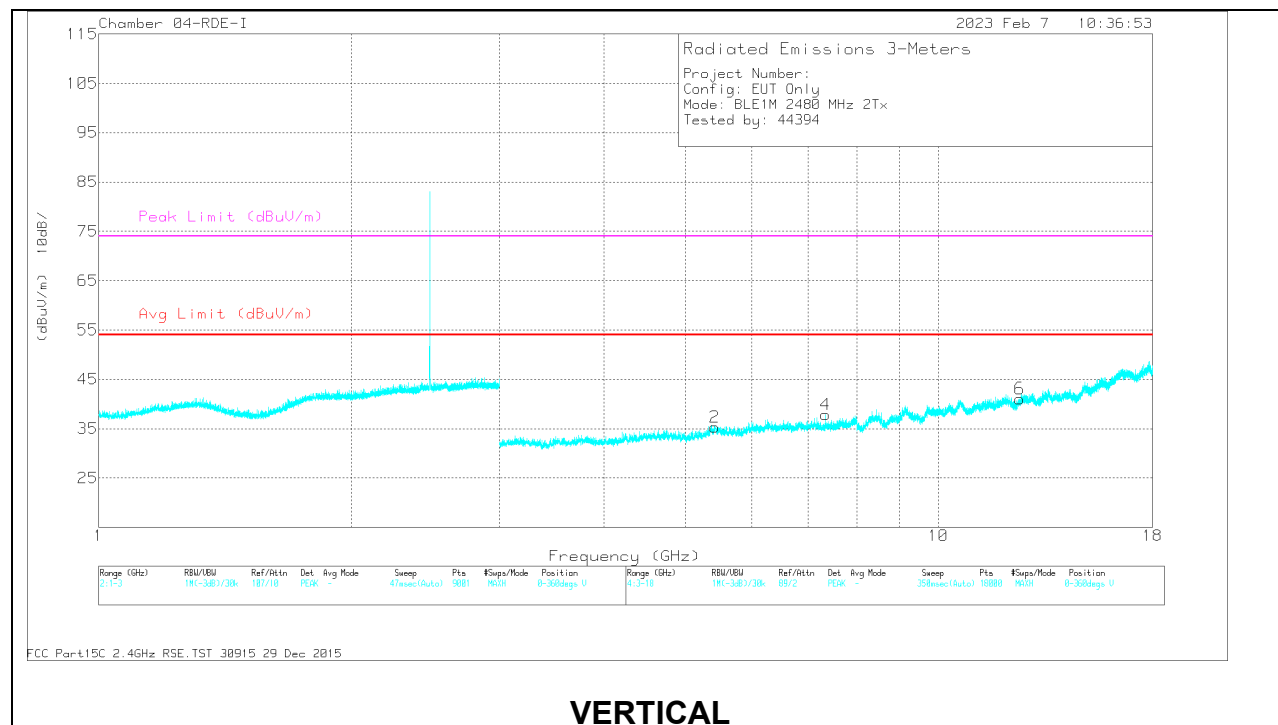
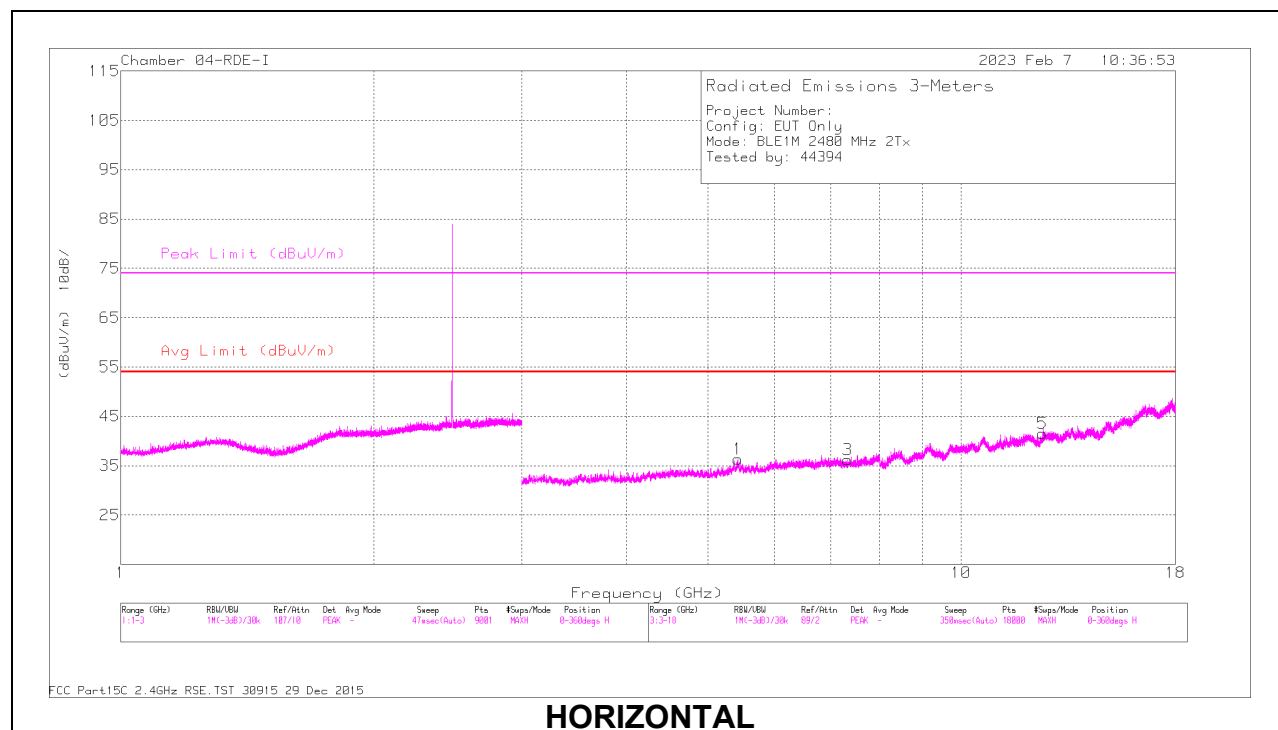
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl/Fit r (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 1.229166	42.81	PK2	28.4	-21.3	49.91	-	-	74	-24.09	0	200	H
	* 1.22988	31.52	MAv1	28.4	-21.2	38.72	54	-15.28	-	-	0	200	H
2	* 1.31832	43.37	PK2	28.6	-21.2	50.77	-	-	74	-23.23	0	200	V
	* 1.31947	31.47	MAv1	28.6	-21.3	38.77	54	-15.23	-	-	0	200	V
3	* 4.838704	38.22	PK2	34.1	-27.8	44.52	-	-	74	-29.48	0	101	H
	* 4.839905	26.45	MAv1	34.1	-27.7	32.85	54	-21.15	-	-	0	101	H
4	* 7.319123	40.39	PK2	35.6	-25.9	50.09	-	-	74	-23.91	75	222	H
	* 7.319429	32.38	MAv1	35.6	-25.9	42.08	54	-11.92	-	-	75	222	H
5	* 3.915747	27.8	MAv1	33.2	-29.8	31.2	54	-22.8	-	-	75	200	V
	* 3.914552	39.08	PK2	33.2	-29.7	42.58	-	-	74	-31.42	75	200	V
6	* 7.319687	37.37	PK2	35.6	-25.9	47.07	-	-	74	-26.93	340	183	V
	* 7.319769	26.88	MAv1	35.6	-25.9	36.58	54	-17.42	-	-	340	183	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



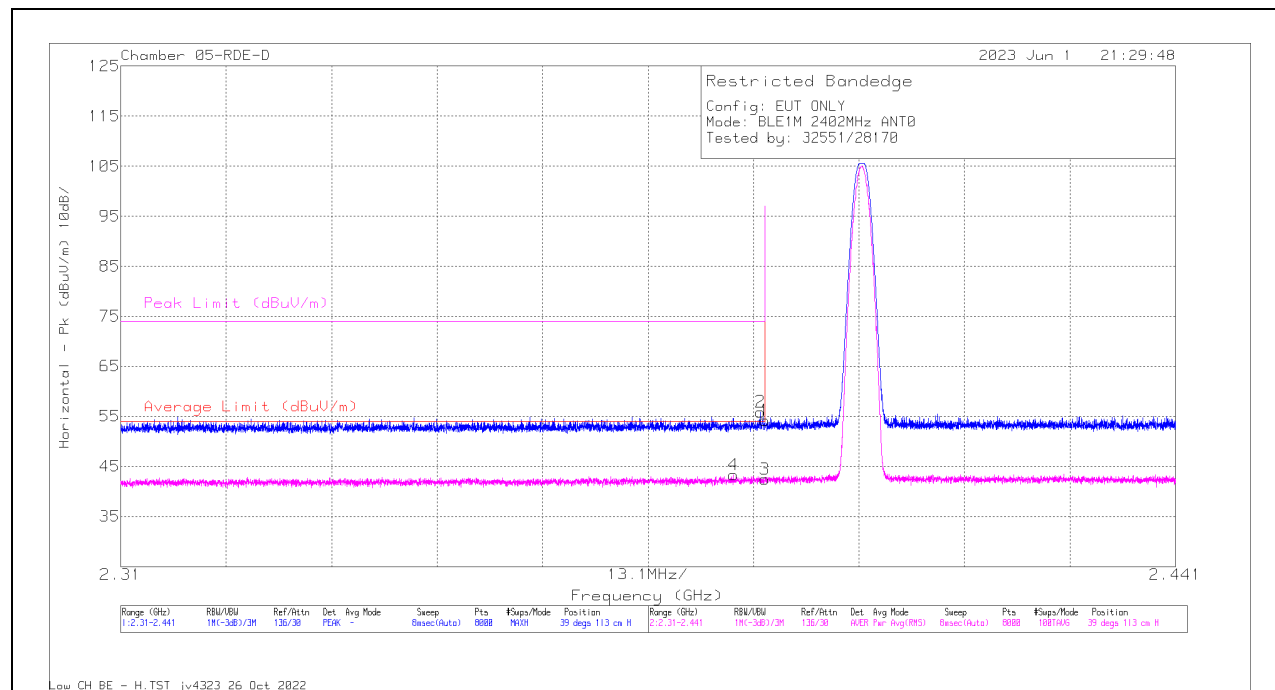
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cb I/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.336282	35.49	PK2	35.6	-25.8	45.29	-	-	74	-28.71	172	258	H
	* 7.33596	24.31	MAV1	35.6	-25.8	34.11	54	-19.896	-	-	172	258	H
5	* 12.505849	34.33	PK2	38.7	-22.7	50.33	-	-	74	-23.67	139	225	H
	* 12.507191	22.8	MAV1	38.7	-22.6	38.90	54	-15.10	-	-	139	225	H
1	* 5.422426	36.64	PK2	35	-26	45.64	-	-	74	-28.36	124	180	H
	* 5.420955	24.65	MAV1	35	-26.1	33.55	54	-20.45	-	-	124	180	H
2	* 5.418968	36.76	PK2	35	-26.1	45.66	-	-	74	-28.34	214	198	V
	* 5.418964	24.68	MAV1	35	-26.1	33.58	54	-20.42	-	-	214	198	V
4	* 7.347133	35.98	PK2	35.6	-25.6	45.98	-	-	74	-28.02	63	354	V
	* 7.343816	24.64	MAV1	35.6	-25.7	34.54	54	-19.46	-	-	63	354	V
6	* 12.501955	34.67	PK2	38.7	-22.7	50.67	-	-	74	-23.33	0	329	V
	* 12.500842	22.99	MAV1	38.7	-22.7	38.99	54	-15.01	-	-	0	329	V

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

Pk - Peak detector

10.2.6. LOW POWER BLE (1Mbps)

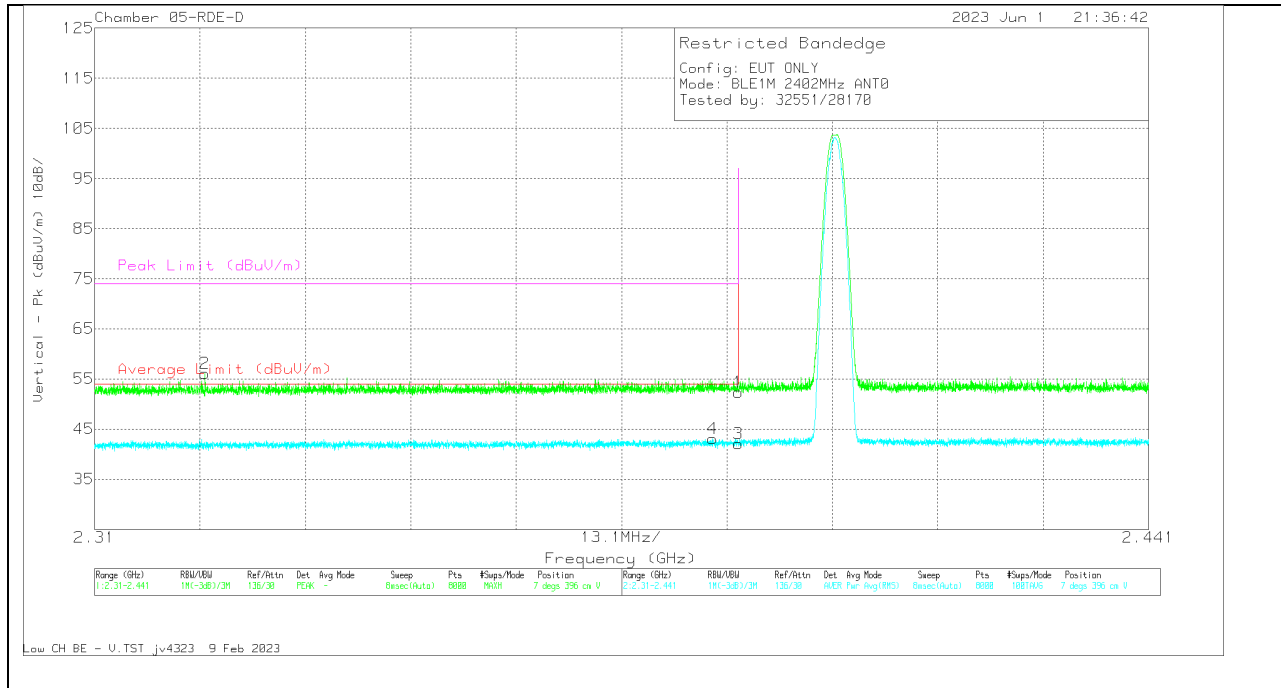
ANT 4**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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
4	2.386137	51.59	RMS	32.4	-40.65	43.34	54	-10.66	-	-	39	113	H
2	2.389445	64.07	Pk	32.5	-40.66	55.91	-	-	74	-18.09	39	113	H
1	2.39	62.43	Pk	32.5	-40.67	54.26	-	-	74	-19.74	39	113	H
3	2.39	50.66	RMS	32.5	-40.67	42.49	54	-11.51	-	-	39	113	H

Pk - Peak detector

RMS - RMS detection

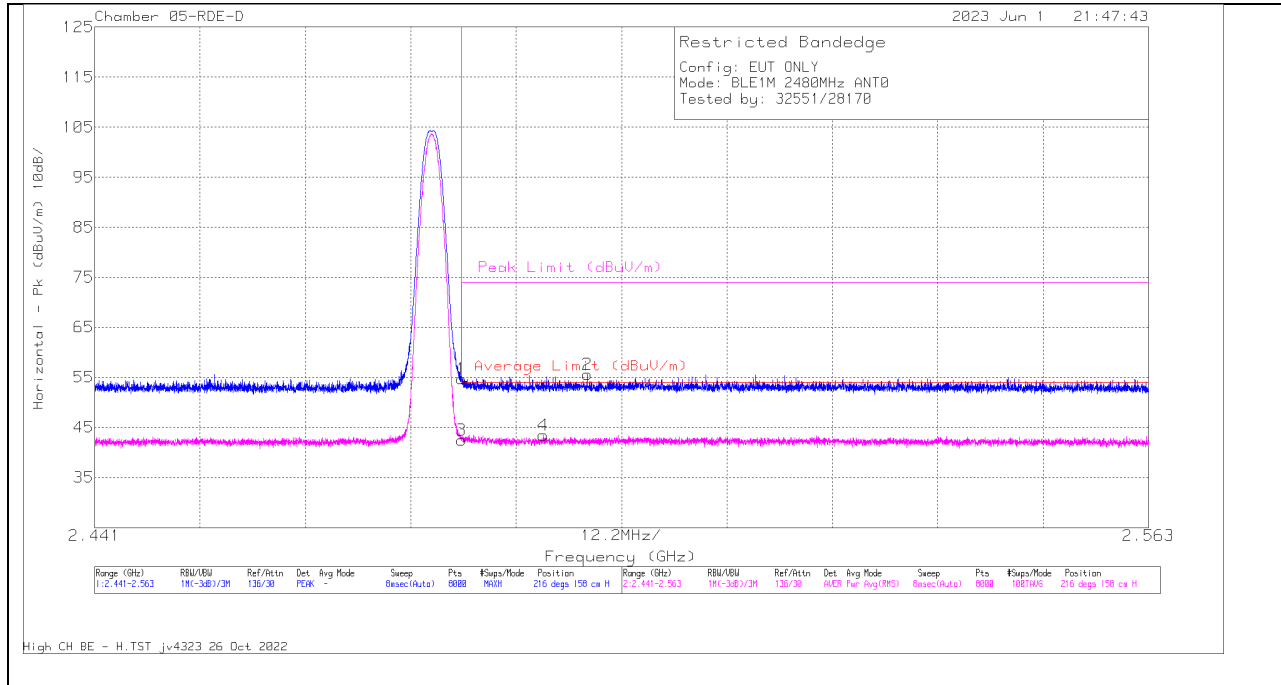
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.323708	64.68	Pk	32.2	-40.76	56.12	-	-	74	-17.88	7	396	V
4	2.386792	51.38	RMS	32.4	-40.66	43.12	54	-10.88	-	-	7	396	V
1	2.39	60.57	Pk	32.5	-40.67	52.4	-	-	74	-21.6	7	396	V
3	2.39	50.29	RMS	32.5	-40.67	42.12	54	-11.88	-	-	7	396	V

Pk - Peak detector

RMS - RMS detection

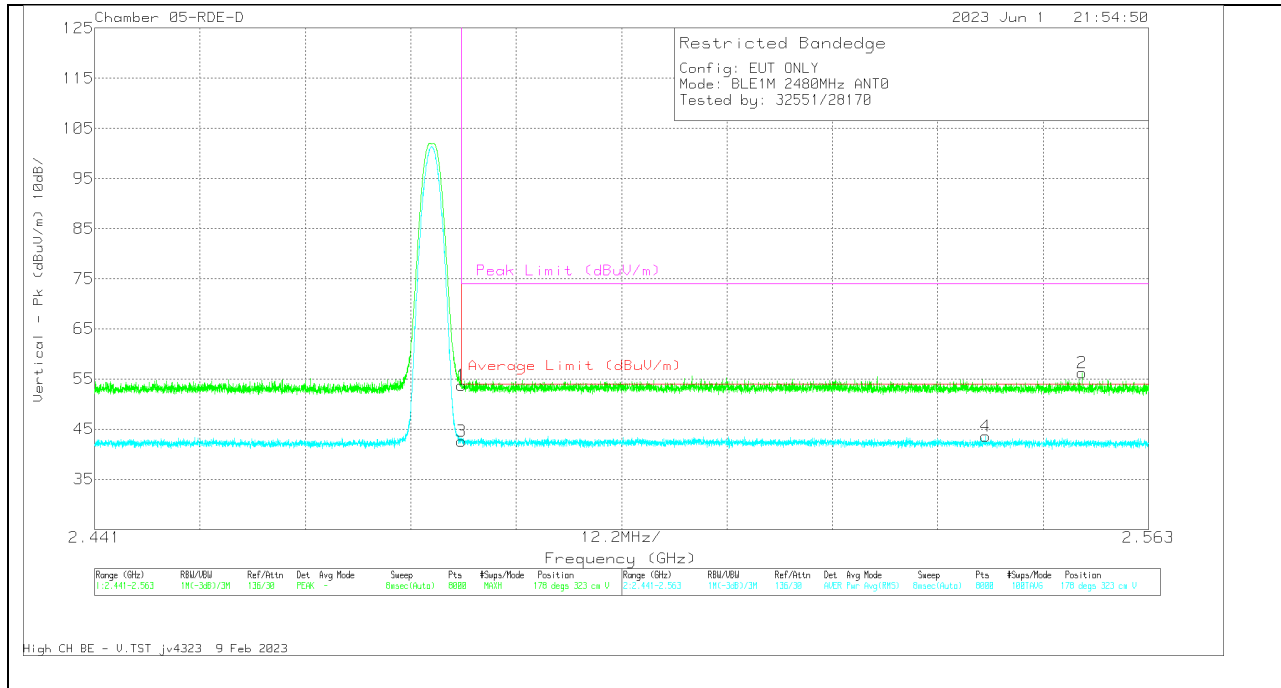
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	62.64	Pk	32.5	-40.38	54.76	-	-	74	-19.24	216	158	H
3	2.4835	50.33	RMS	32.5	-40.38	42.45	54	-11.55	-	-	216	158	H
4	2.492933	51.25	RMS	32.5	-40.27	43.48	54	-10.52	-	-	216	158	H
2	2.498027	63.36	Pk	32.6	-40.41	55.55	-	-	74	-18.45	216	158	H

Pk - Peak detector

RMS - RMS detection

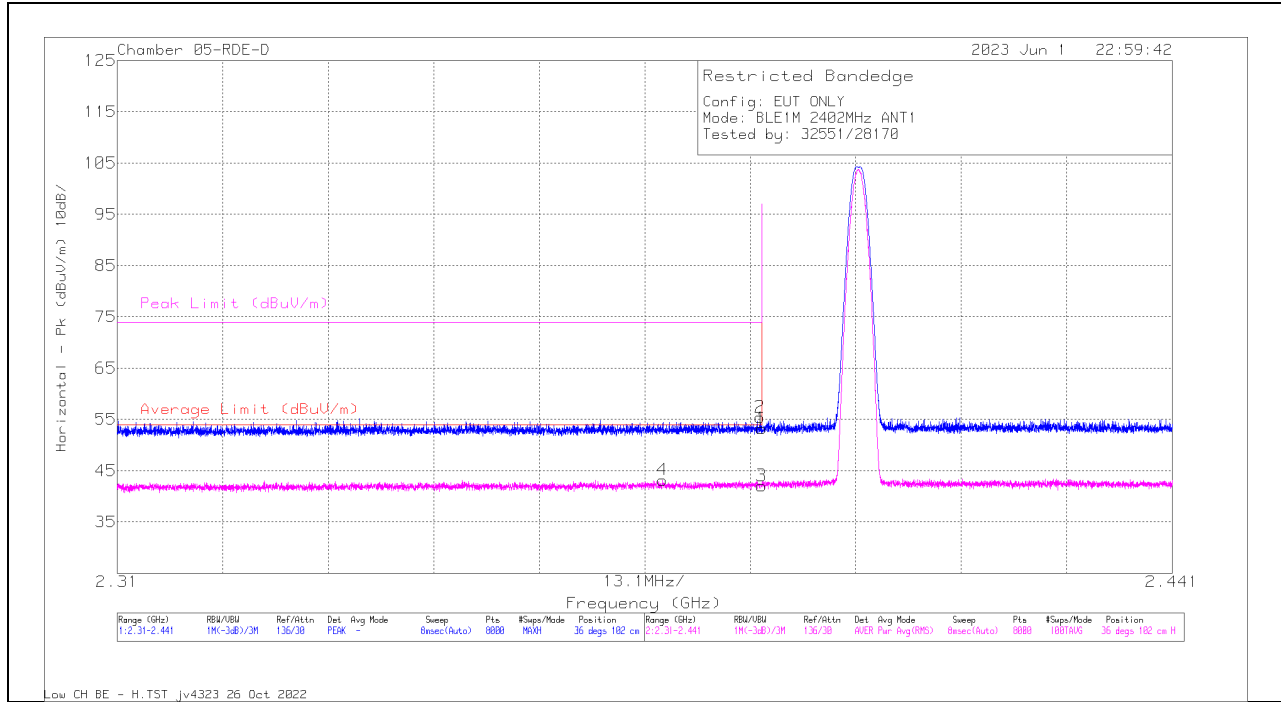
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	61.63	Pk	32.5	-40.38	53.75	-	-	74	-20.25	178	323	V
3	2.4835	50.52	RMS	32.5	-40.38	42.64	54	-11.36	-	-	178	323	V
4	2.544134	51.28	RMS	32.5	-40.17	43.61	54	-10.39	-	-	178	323	V
2	2.555314	63.94	Pk	32.4	-40.09	56.25	-	-	74	-17.75	178	323	V

Pk - Peak detector

RMS - RMS detection

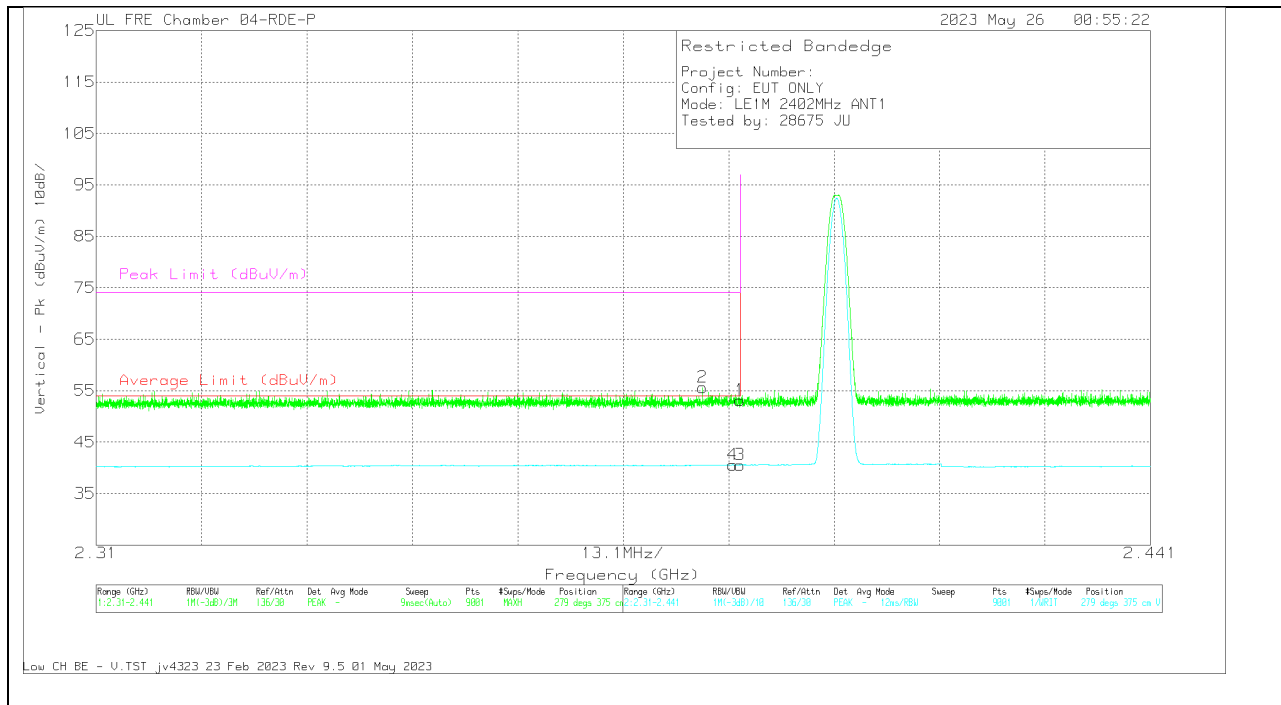
ANT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACP(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
4	2.377703	51.46	RMS	32.4	-40.67	43.19	54	-10.81	-	-	36	102	H
2	2.389789	63.62	Pk	32.5	-40.67	55.45	-	-	74	-18.55	36	102	H
1	2.39	61.41	Pk	32.5	-40.67	53.24	-	-	74	-20.76	36	102	H
3	2.39	50.22	RMS	32.5	-40.67	42.05	54	-11.95	-	-	36	102	H

Pk - Peak detector

RMS - RMS detection

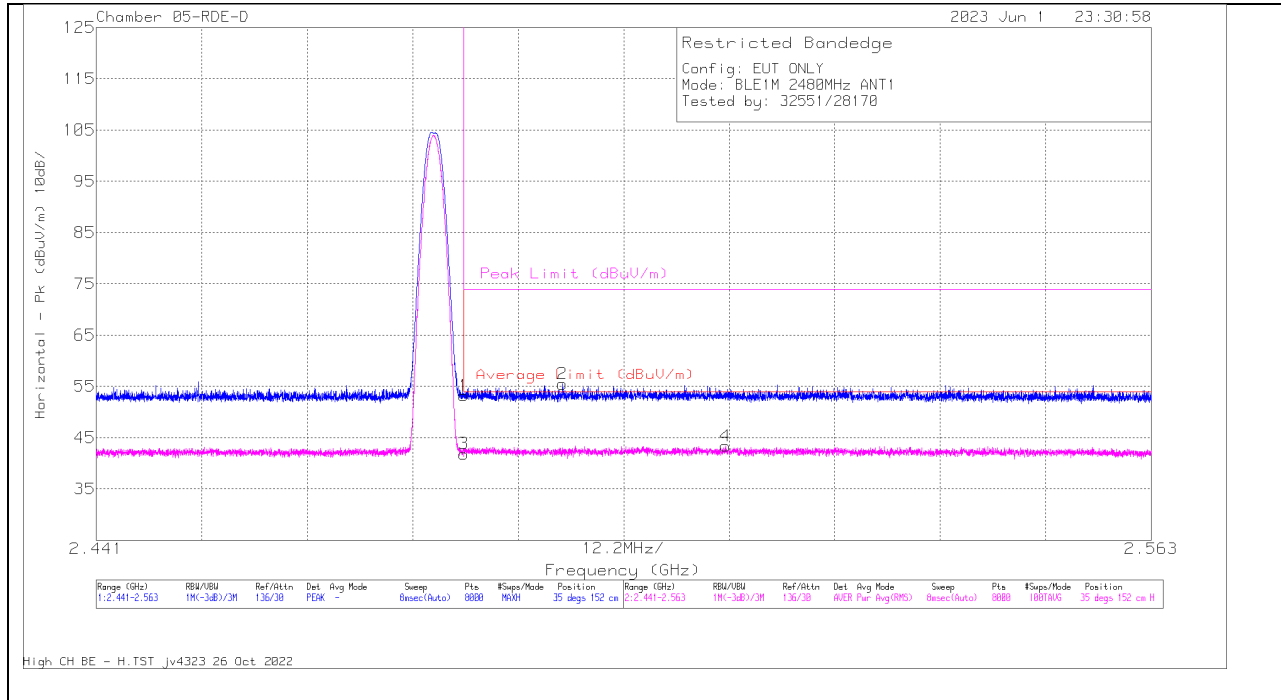
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 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	2.385371	63.64	Pk	31.7	-39.72	55.62	-	-	74	-18.38	279	375	V
4	2.389097	48.64	VA1T	31.7	-39.77	40.57	54	-13.43	-	-	279	375	V
1	2.39	61.19	Pk	31.7	-39.79	53.1	-	-	74	-20.9	279	375	V
3	2.39	48.64	VA1T	31.7	-39.79	40.55	54	-13.45	-	-	279	375	V

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

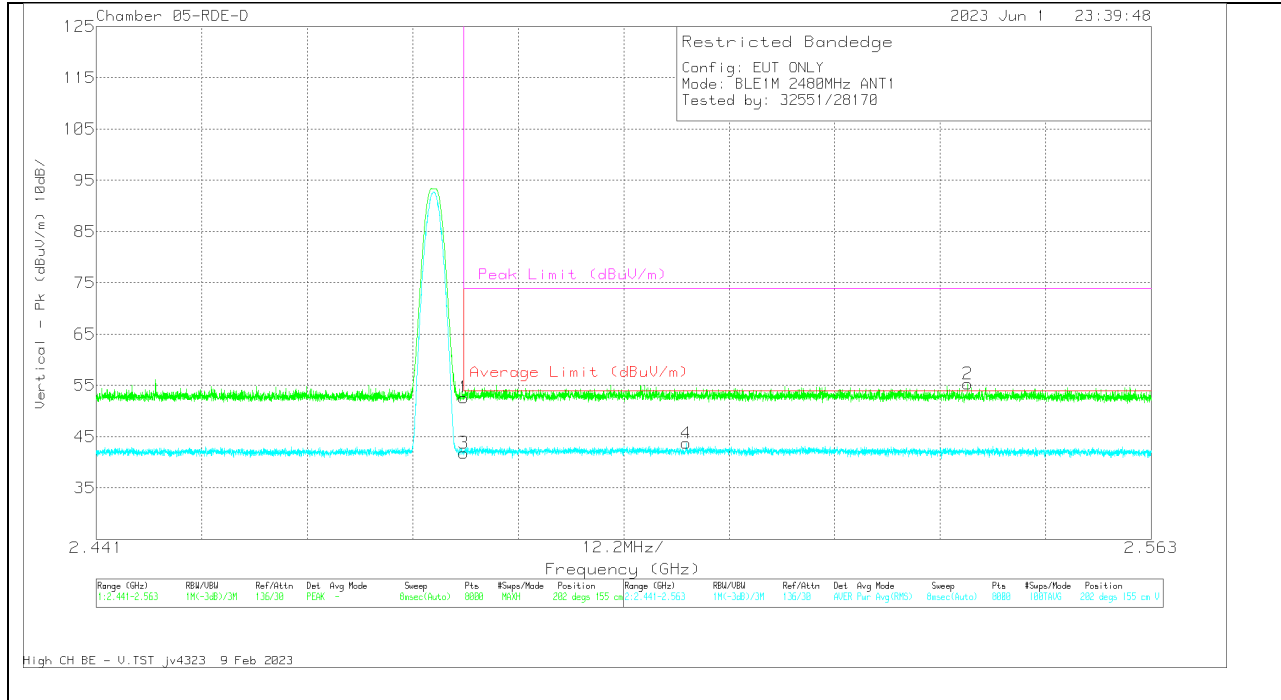
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBμV)	Det	80402 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Peak Limit (dBμV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.05	Pk	32.5	-40.38	53.17	-	-	74	-20.83	35	152	H
3	2.4835	49.72	RMS	32.5	-40.38	41.84	54	-12.16	-	-	35	152	H
2	2.494931	63.37	Pk	32.5	-40.39	55.48	-	-	74	-18.52	35	152	H
4	2.513767	51.02	RMS	32.6	-40.24	43.38	54	-10.62	-	-	35	152	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	60.52	Pk	32.5	-40.38	52.64	-	-	74	-21.36	202	155	V
3	2.4835	49.67	RMS	32.5	-40.38	41.79	54	-12.21	-	-	202	155	V
4	2.509207	51.46	RMS	32.5	-40.32	43.74	54	-10.26	-	-	202	155	V
2	2.54177	63.05	Pk	32.5	-40.26	55.29	-	-	74	-18.71	202	155	V

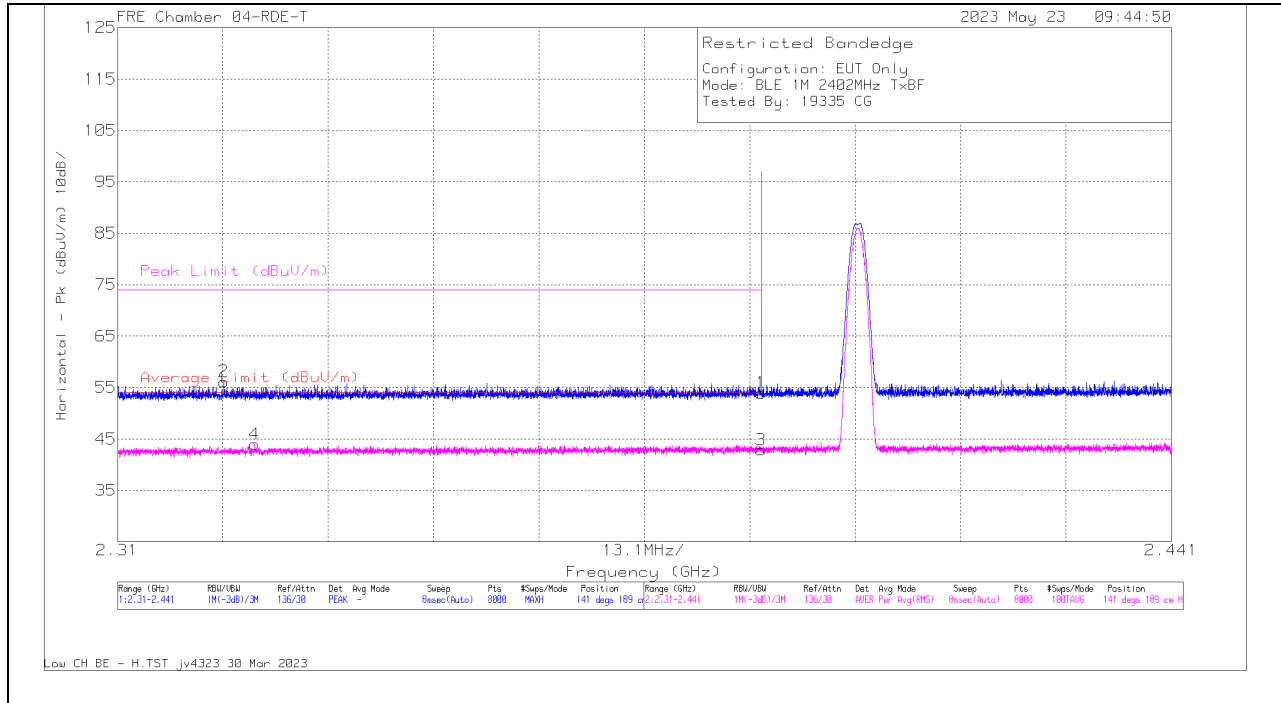
Pk - Peak detector

RMS - RMS detection

10.2.7. LOW POWER BLE TXBF (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



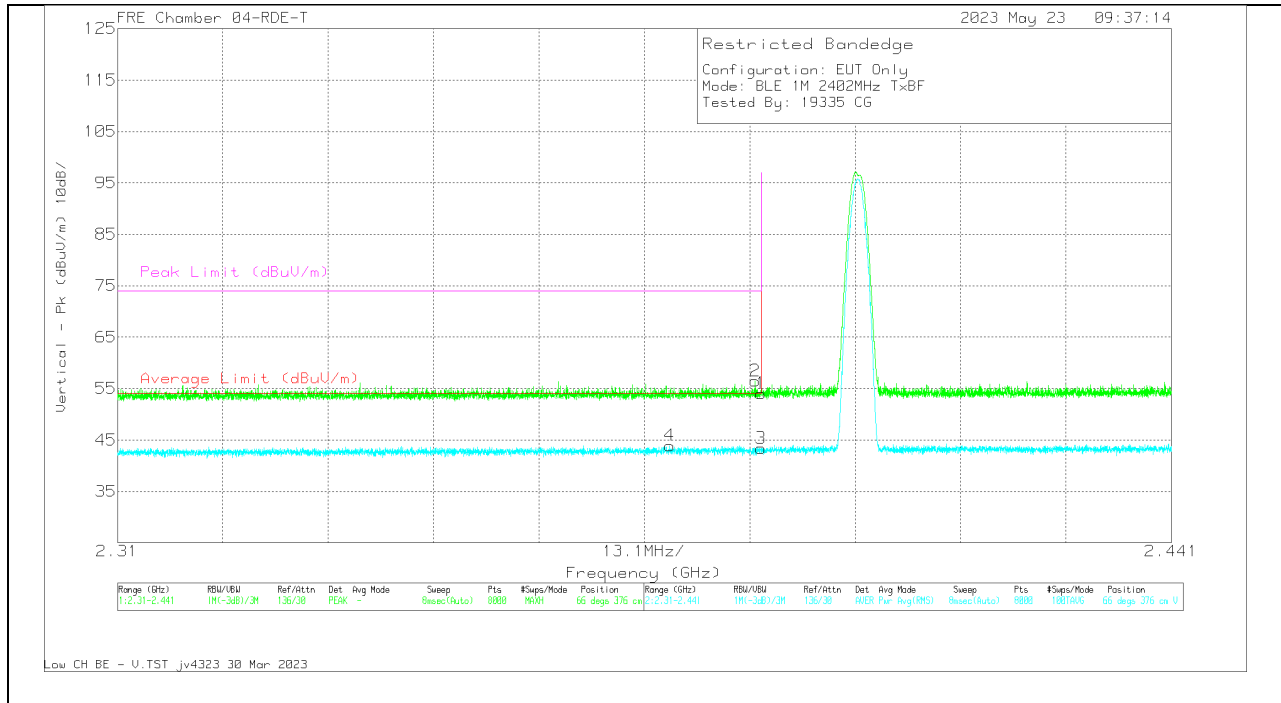
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.74	Pk	32.1	-37.89	53.95	-	-	74	-20.05	141	189	H
2	* 2.323249	62.22	Pk	31.8	-37.88	56.14	-	-	74	-17.86	141	189	H
3	* 2.39	48.68	RMS	32.1	-37.89	42.89	54	-11.11	-	-	141	189	H
4	* 2.327032	50.09	RMS	31.8	-37.91	43.98	54	-10.02	-	-	141	189	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

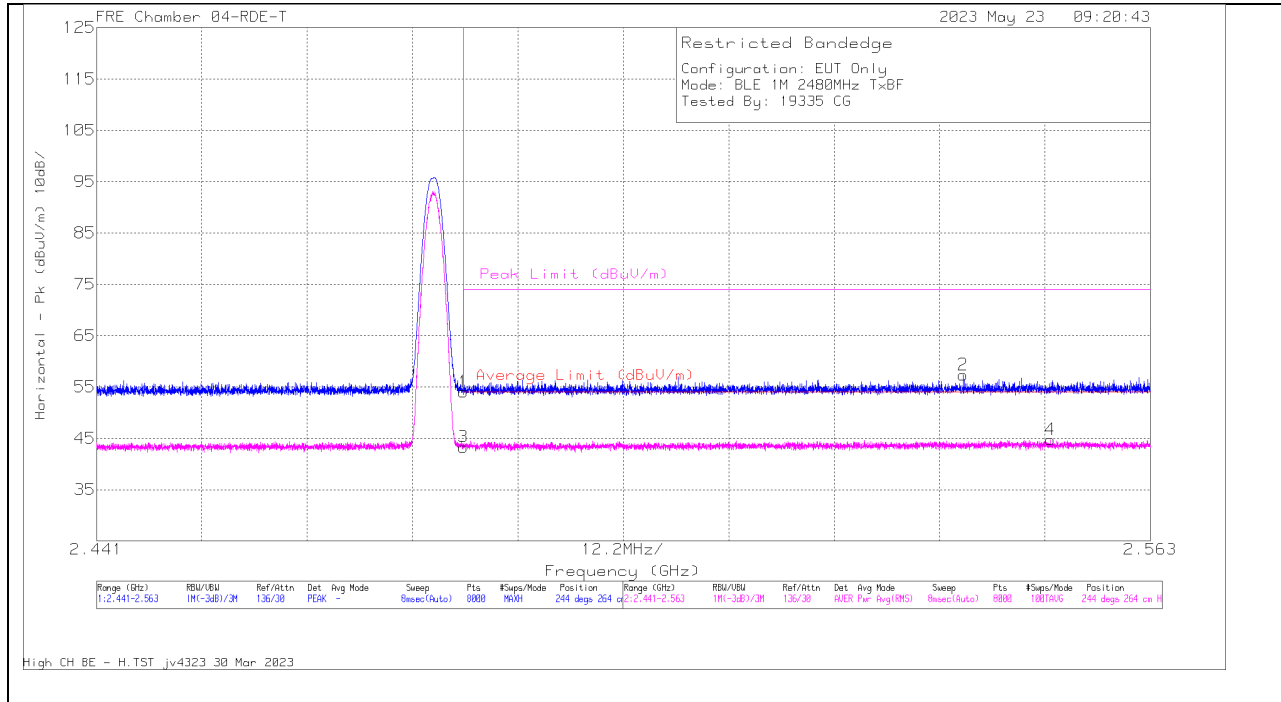


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.87	Pk	32.1	-37.89	54.08	-	-	74	-19.92	66	376	V
2	* 2.389281	62.26	Pk	32.1	-37.88	56.48	-	-	74	-17.52	66	376	V
3	* 2.39	49.17	RMS	32.1	-37.89	43.38	54	-10.62	-	-	66	376	V
4	* 2.378669	49.7	RMS	32.1	-37.86	43.94	54	-10.06	-	-	66	376	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

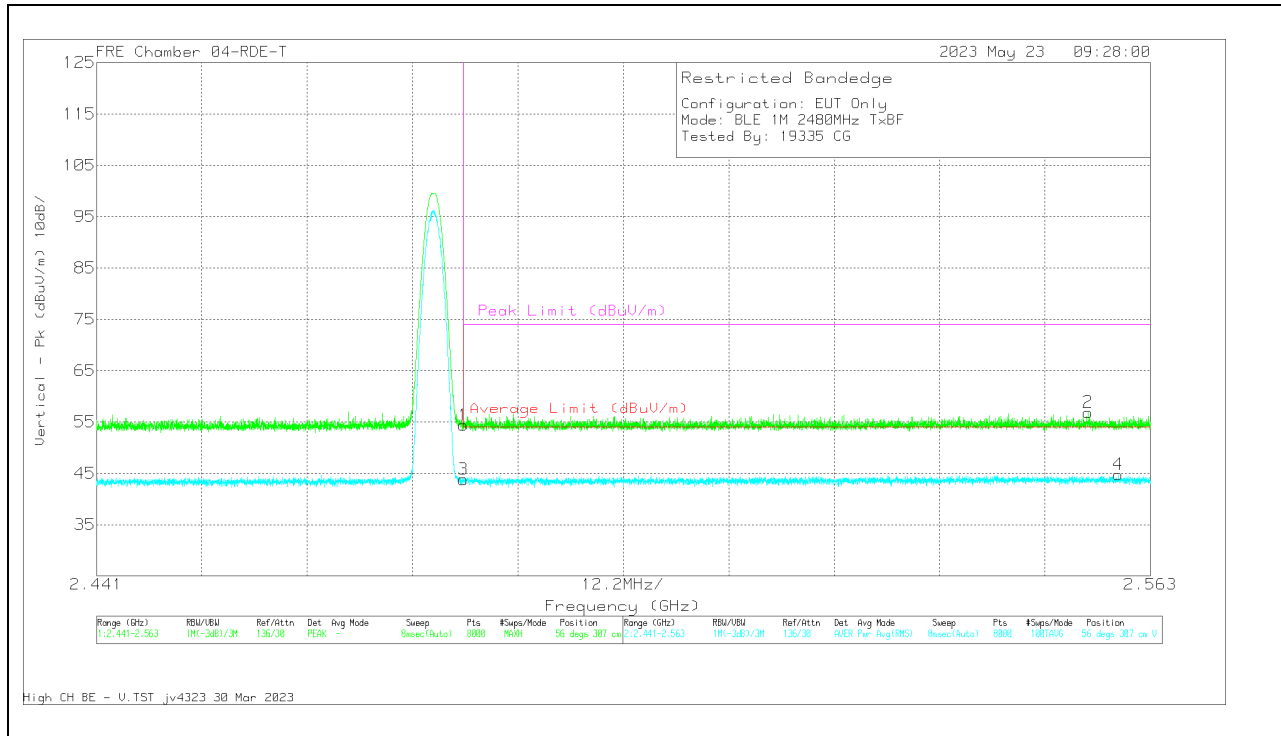
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.64	Pk	32.2	-37.81	54.03	-	-	74	-19.97	244	264	H
3	* 2.4835	48.94	RMS	32.2	-37.81	43.33	54	-10.67	-	-	244	264	H
2	2.541343	62.81	Pk	32.3	-37.76	57.35	-	-	74	-16.65	244	264	H
4	2.551455	50.24	RMS	32.3	-37.8	44.74	54	-9.26	-	-	244	264	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

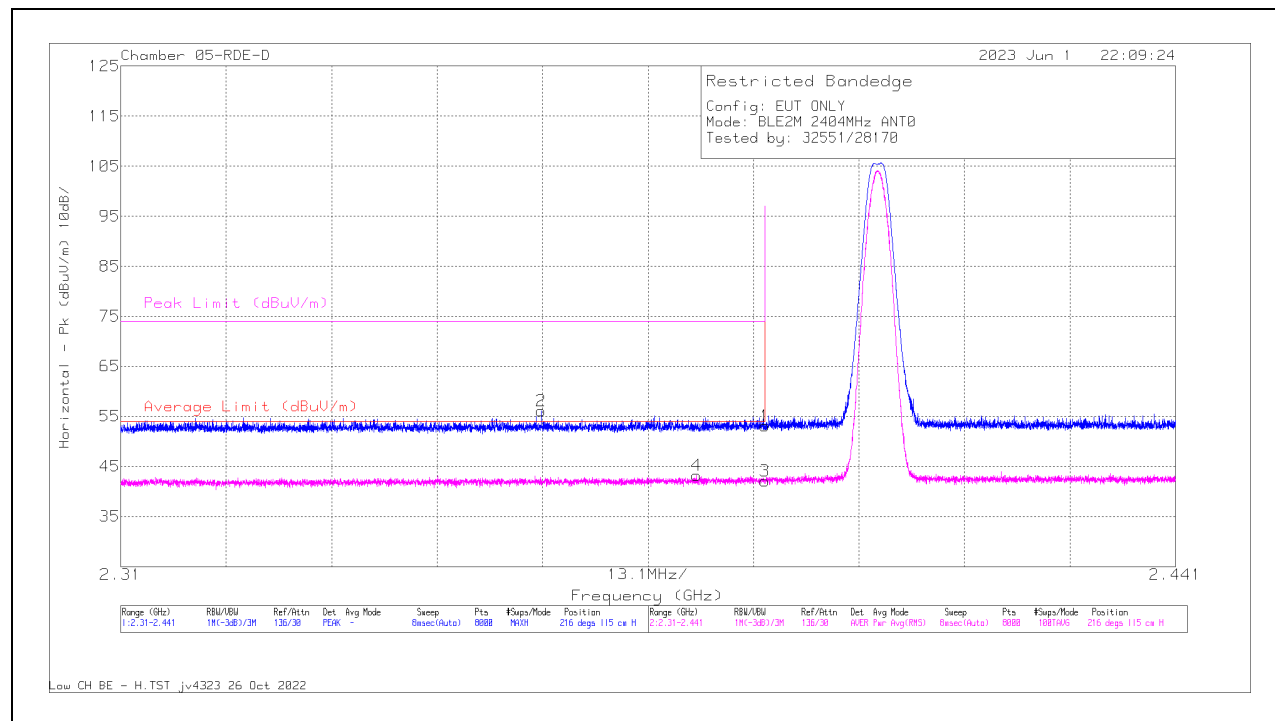


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.99	Pk	32.2	-37.81	54.38	-	-	74	-19.62	56	307	V
3	* 2.4835	49.43	RMS	32.2	-37.81	43.82	54	-10.18	-	-	56	307	V
2	2.555787	62.35	Pk	32.3	-37.76	56.89	-	-	74	-17.11	56	307	V
4	2.55931	50.38	RMS	32.2	-37.8	44.78	54	-9.22	-	-	56	307	V

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

Pk - Peak detector

RMS - RMS detection

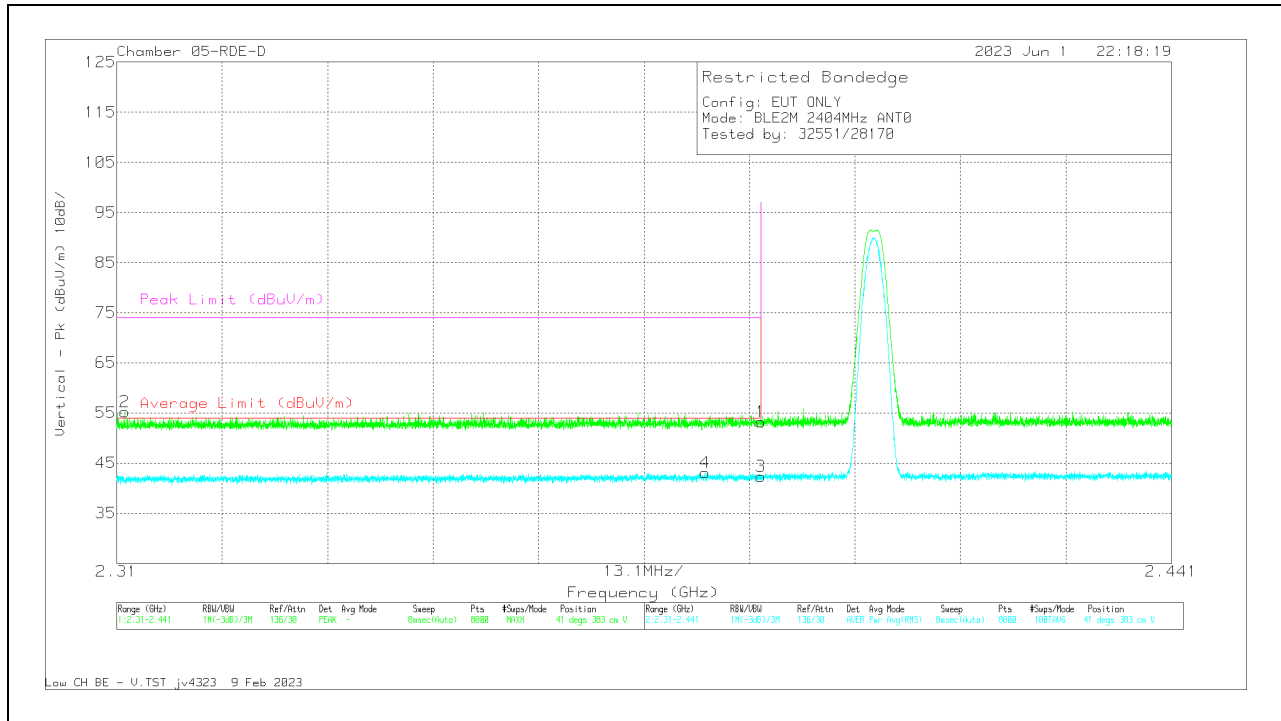
10.2.8. **LOW POWER BLE (2Mbps)****ANT 4****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACP(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	2.362226	64.38	Pk	32.3	-40.62	56.06	-	-	74	-17.94	216	115	H
4	2.381502	51.49	RMS	32.4	-40.73	43.16	54	-10.84	-	-	216	115	H
1	2.39	61.25	Pk	32.5	-40.67	53.08	-	-	74	-20.92	216	115	H
3	2.39	50.24	RMS	32.5	-40.67	42.07	54	-11.93	-	-	216	115	H

Pk - Peak detector

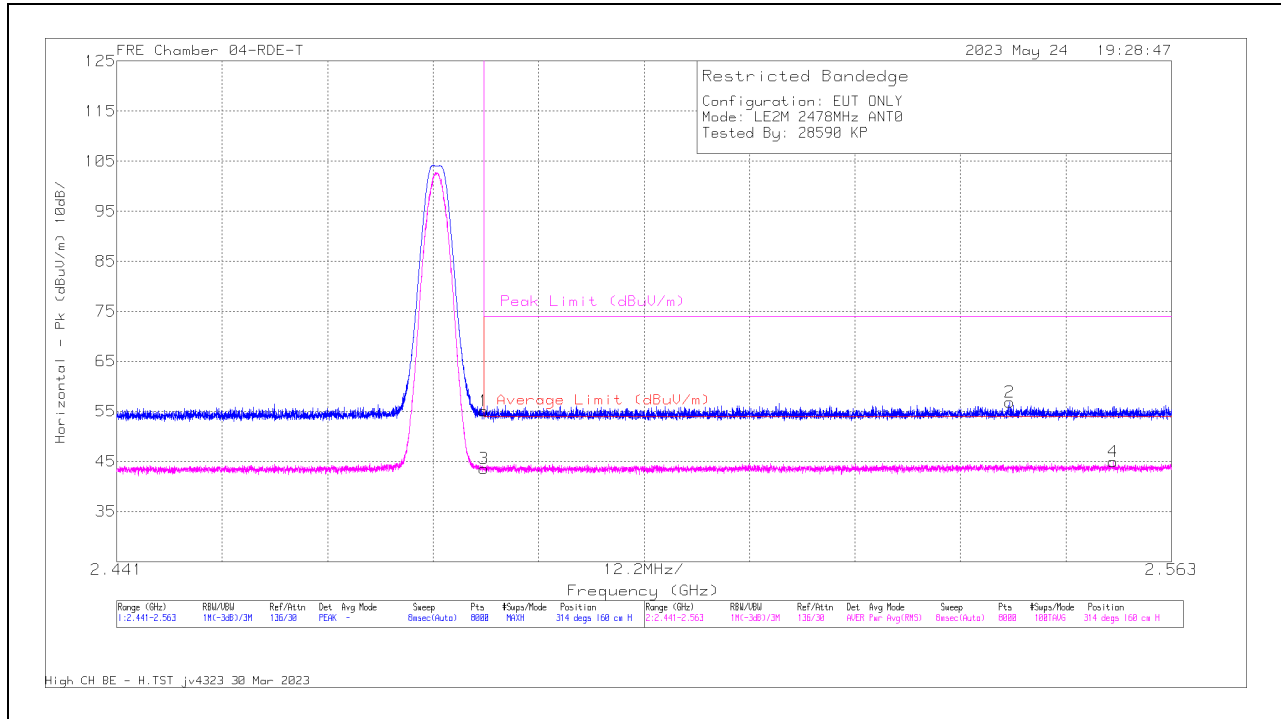
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.311015	64.01	Pk	32.1	-40.87	55.24	-	-	74	-18.76	41	383	V
4	2.383058	51.4	RMS	32.4	-40.71	43.09	54	-10.91	-	-	41	383	V
1	2.39	61.37	Pk	32.5	-40.67	53.2	-	-	74	-20.8	41	383	V
3	2.39	50.48	RMS	32.5	-40.67	42.31	54	-11.69	-	-	41	383	V

Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

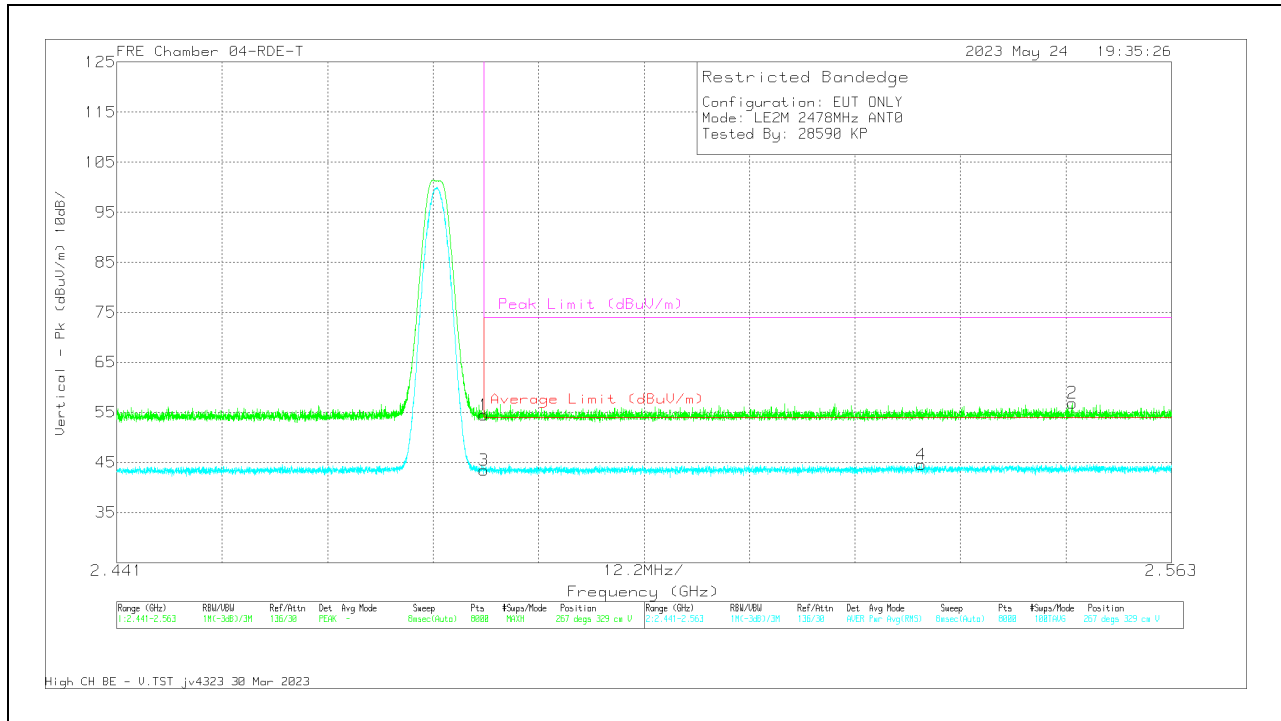
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.68	Pk	32.2	0	-37.81	55.07	-	-	74	-18.93	314	160	H
3	* 2.4835	49.25	RMS	32.2	0	-37.81	43.64	54	-10.36	-	-	314	160	H
2	2.544317	62.36	Pk	32.3	0	-37.76	56.9	-	-	74	-17.1	314	160	H
4	2.556244	50.45	RMS	32.3	0	-37.76	44.99	54	-9.01	-	-	314	160	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

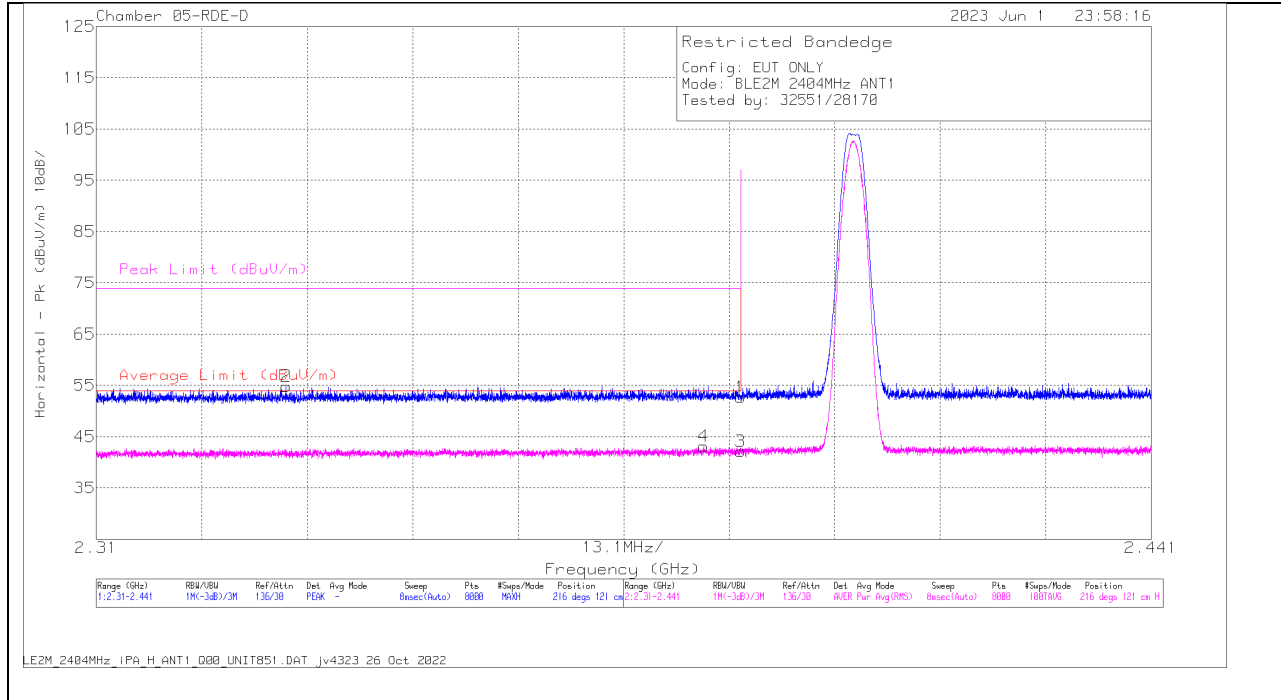


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACP (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.14	Pk	32.2	0	-37.81	54.53	-	-	74	-19.47	267	329	V
3	* 2.4835	49.08	RMS	32.2	0	-37.81	43.47	54	-10.53	-	-	267	329	V
4	2.534068	50.07	RMS	32.3	0	-37.75	44.62	54	-9.38	-	-	267	329	V
2	2.551516	62.4	Pk	32.3	0	-37.79	56.91	-	-	74	-17.09	267	329	V

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

Pk - Peak detector

RMS - RMS detection

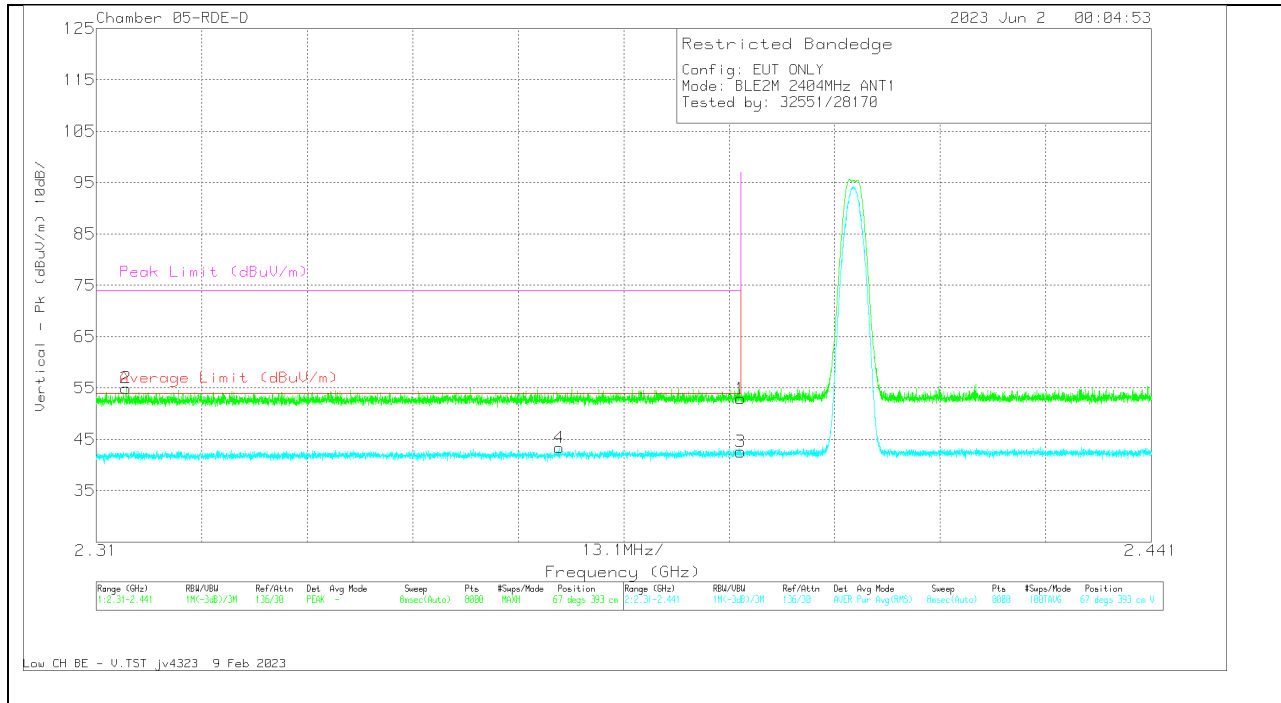
ANT 3**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	80402 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	2.333583	63.35	Pk	32.2	-40.74	54.81	-	-	74	-19.19	216	121	H
4	2.3854	51.35	RMS	32.4	-40.67	43.08	54	-10.92	-	-	216	121	H
1	2.39	60.87	Pk	32.5	-40.67	52.7	-	-	74	-21.3	216	121	H
3	2.39	50.3	RMS	32.5	-40.67	42.13	54	-11.87	-	-	216	121	H

Pk - Peak detector

RMS - RMS detection

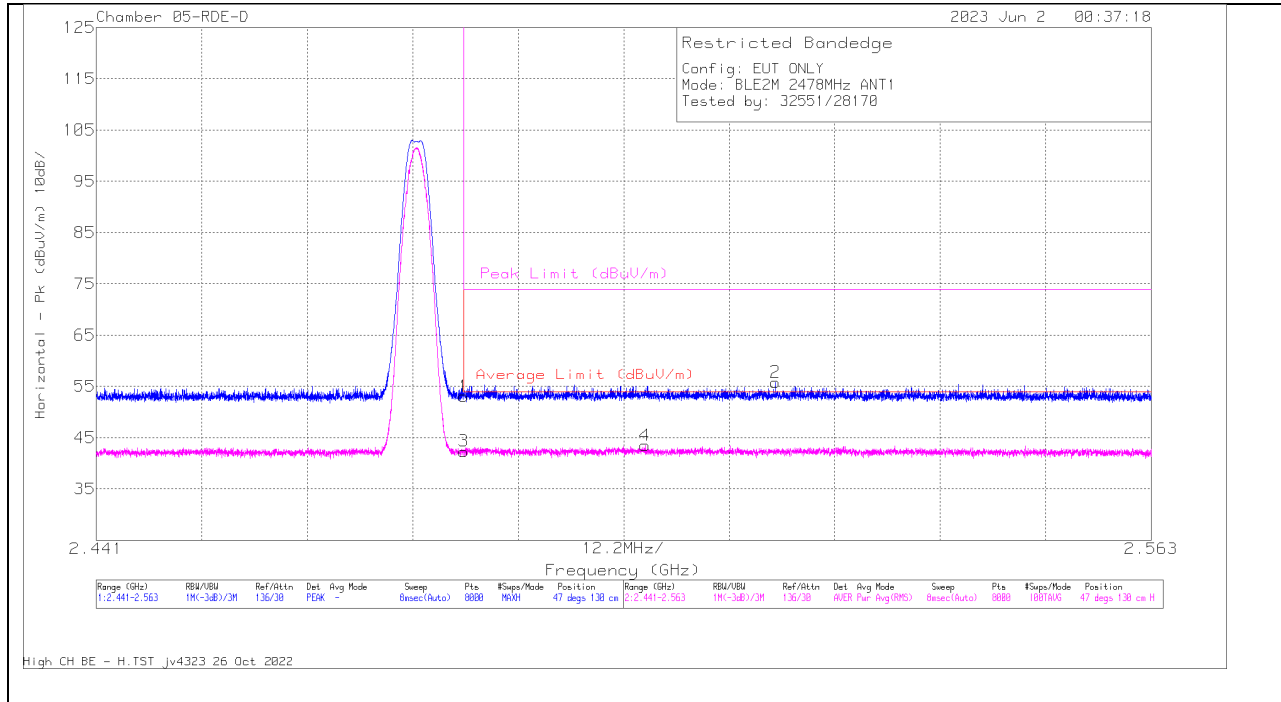
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.313701	63.47	Pk	32.2	-40.7	54.97	-	-	74	-19.03	67	393	V
4	2.367483	51.62	RMS	32.3	-40.57	43.35	54	-10.65	-	-	67	393	V
1	2.39	61.11	Pk	32.5	-40.67	52.94	-	-	74	-21.06	67	393	V
3	2.39	50.77	RMS	32.5	-40.67	42.6	54	-11.4	-	-	67	393	V

Pk - Peak detector

RMS - RMS detection

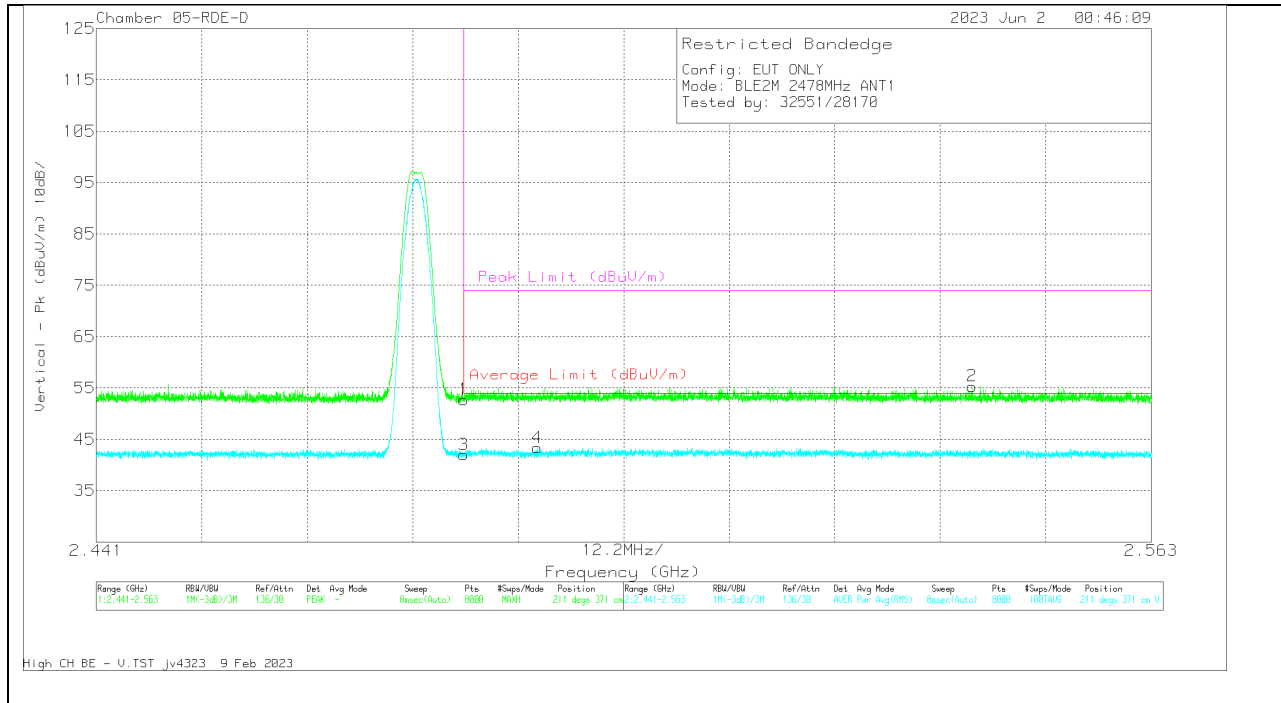
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	60.92	Pk	32.5	-40.38	53.04	-	-	74	-20.96	47	130	H
3	2.4835	50.21	RMS	32.5	-40.38	42.33	54	-11.67	-	-	47	130	H
4	2.504464	51.13	RMS	32.6	-40.24	43.49	54	-10.51	-	-	47	130	H
2	2.519548	63.5	Pk	32.6	-40.31	55.79	-	-	74	-18.21	47	130	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	60.62	Pk	32.5	-40.38	52.74	-	-	74	-21.26	211	371	V
3	2.4835	49.88	RMS	32.5	-40.38	42	54	-12	-	-	211	371	V
4	2.491972	51.26	RMS	32.5	-40.39	43.37	54	-10.63	-	-	211	371	V
2	2.542258	63.1	Pk	32.5	-40.26	55.34	-	-	74	-18.66	211	371	V

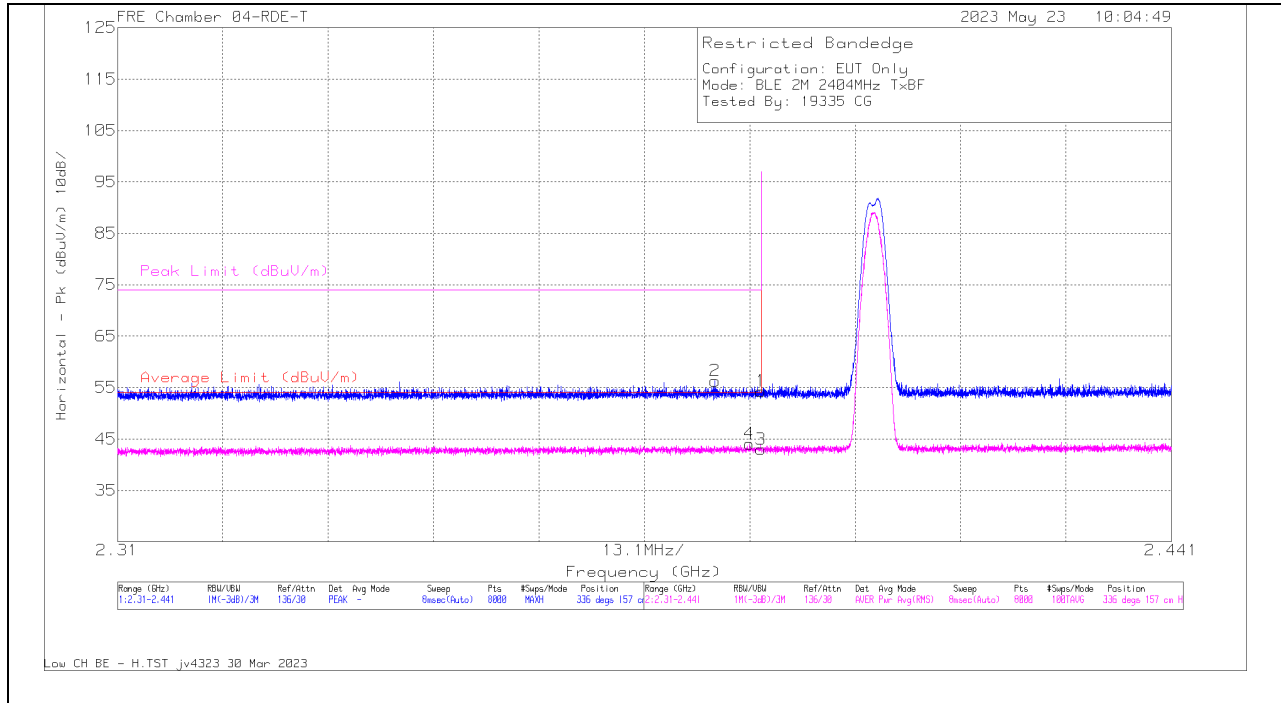
Pk - Peak detector

RMS - RMS detection

10.2.9. LOW POWER BLE TXBF (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



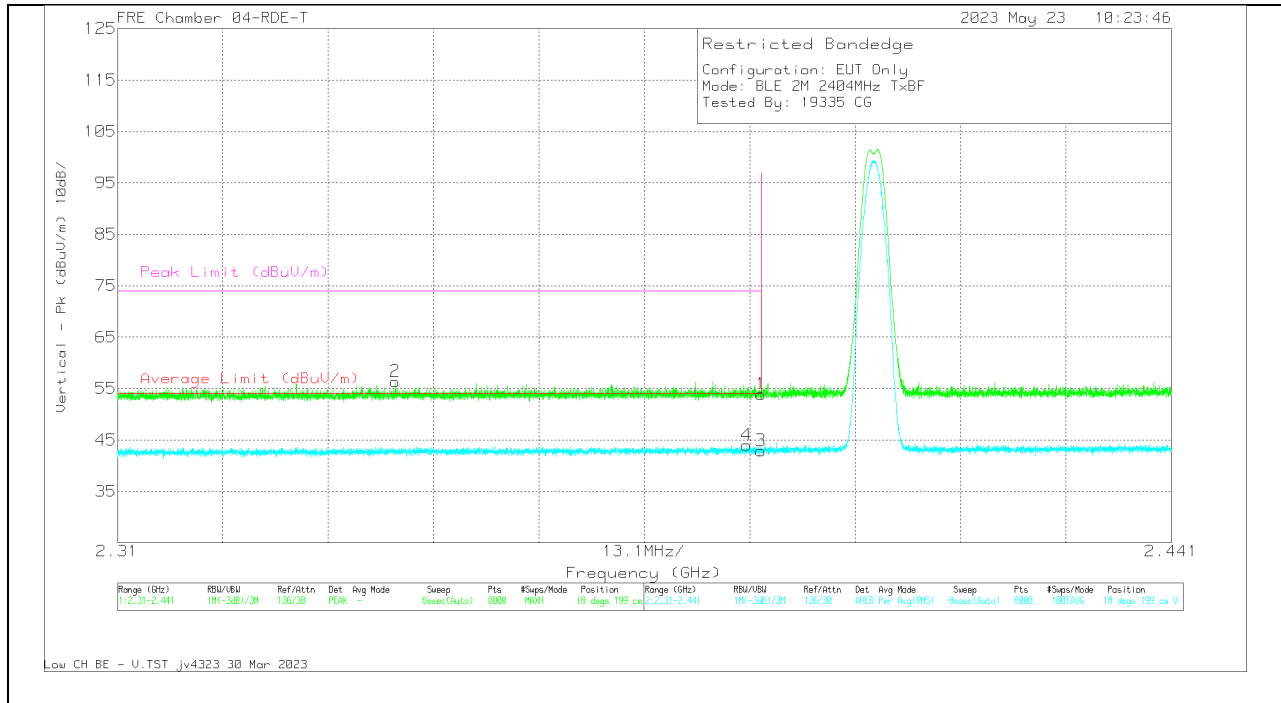
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.12	Pk	32.1	-37.89	54.33	-	-	74	-19.67	336	157	H
2	* 2.384286	62.1	Pk	32.1	-37.88	56.32	-	-	74	-17.68	336	157	H
3	* 2.39	48.8	RMS	32.1	-37.89	43.01	54	-10.99	-	-	336	157	H
4	* 2.388577	49.85	RMS	32.1	-37.88	44.07	54	-9.93	-	-	336	157	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

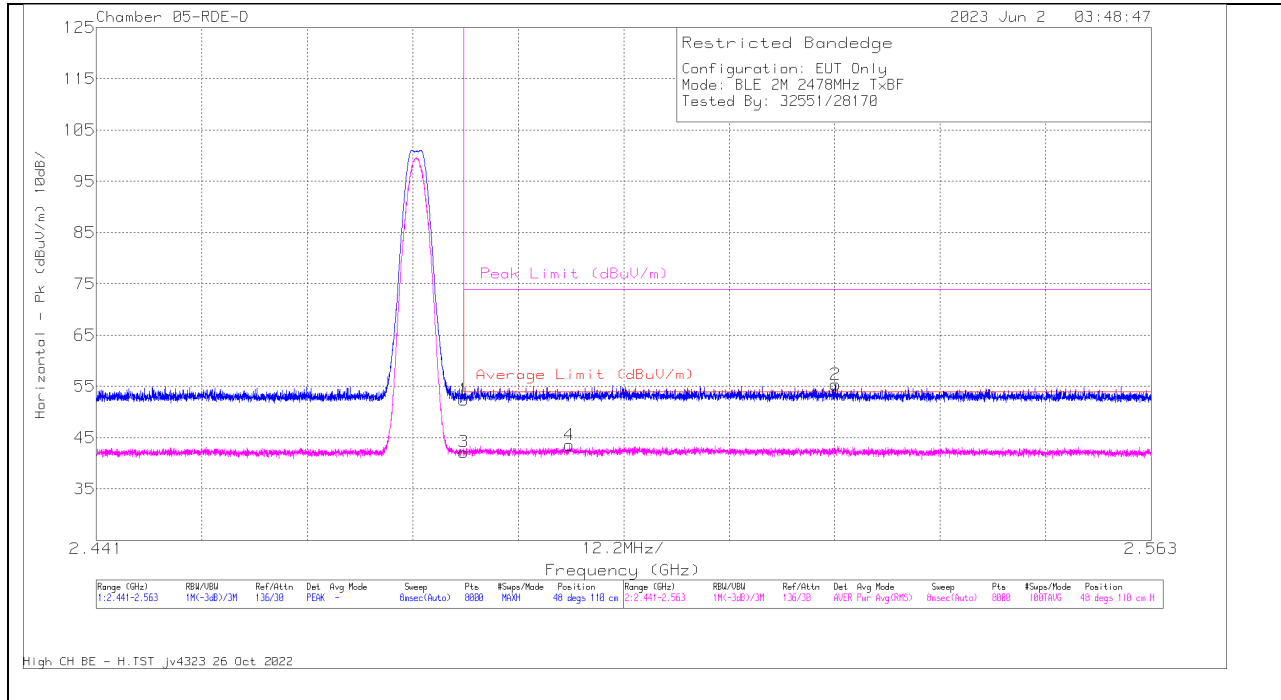


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.75	Pk	32.1	-37.89	53.96	-	-	74	-20.04	18	199	V
2	* 2.344523	62.39	Pk	31.9	-37.89	56.4	-	-	74	-17.6	18	199	V
3	* 2.39	48.73	RMS	32.1	-37.89	42.94	54	-11.06	-	-	18	199	V
4	* 2.3882	49.78	RMS	32.1	-37.87	44.01	54	-9.99	-	-	18	199	V

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

Pk - Peak detector

RMS - RMS detection

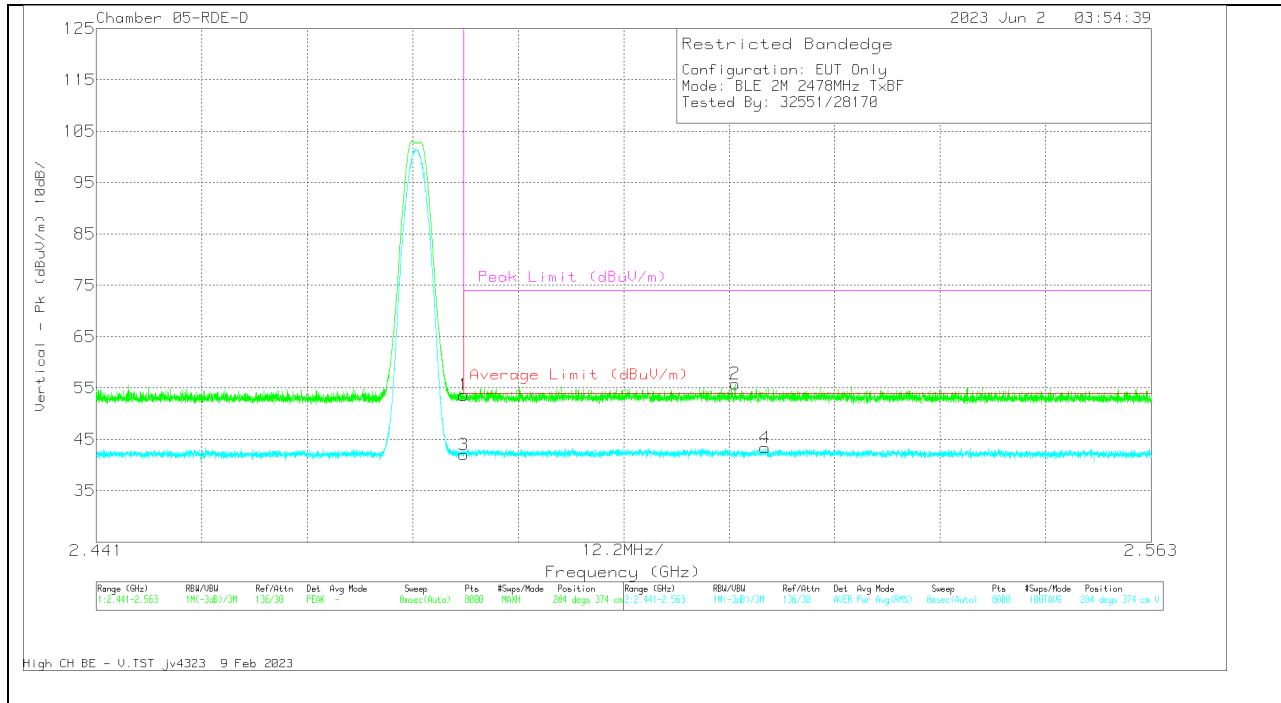
BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 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	2.4835	60.29	Pk	32.5	-40.38	52.41	-	-	74	-21.59	48	110	H
3	2.4835	50.09	RMS	32.5	-40.38	42.21	54	-11.79	-	-	48	110	H
4	2.495694	51.26	RMS	32.6	-40.29	43.57	54	-10.43	-	-	48	110	H
2	2.526487	62.93	Pk	32.6	-40.17	55.36	-	-	74	-18.64	48	110	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



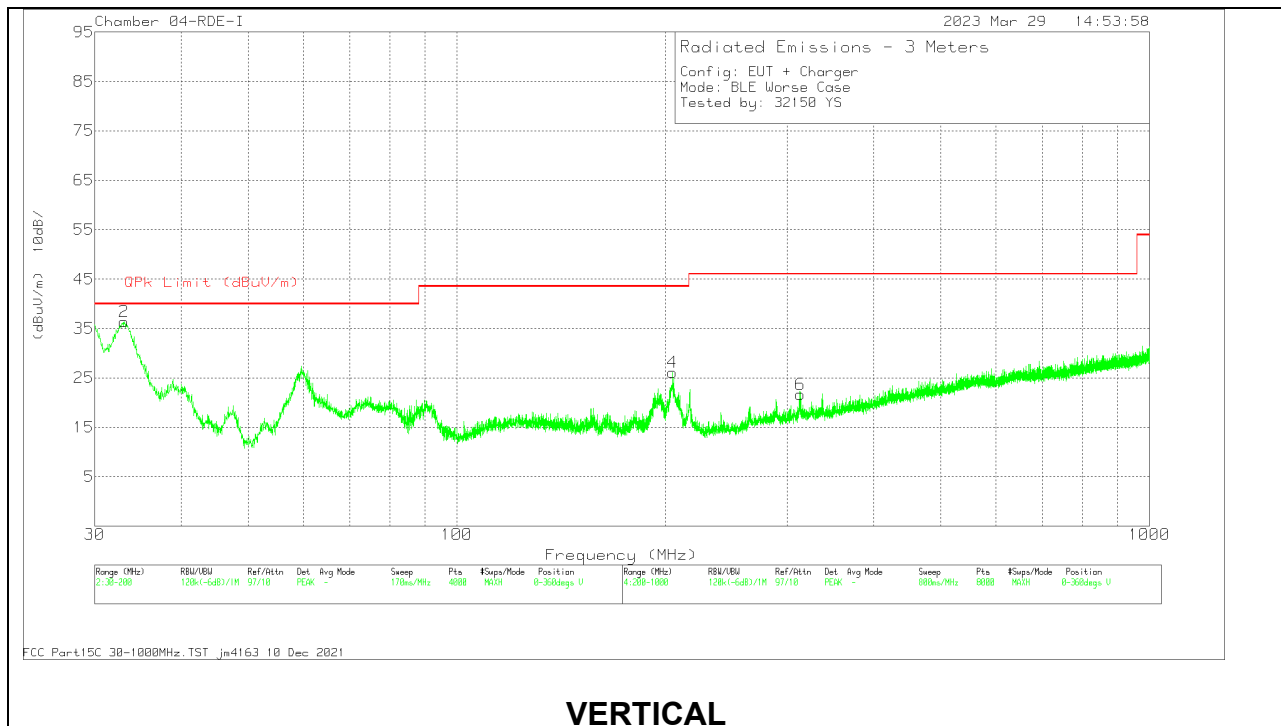
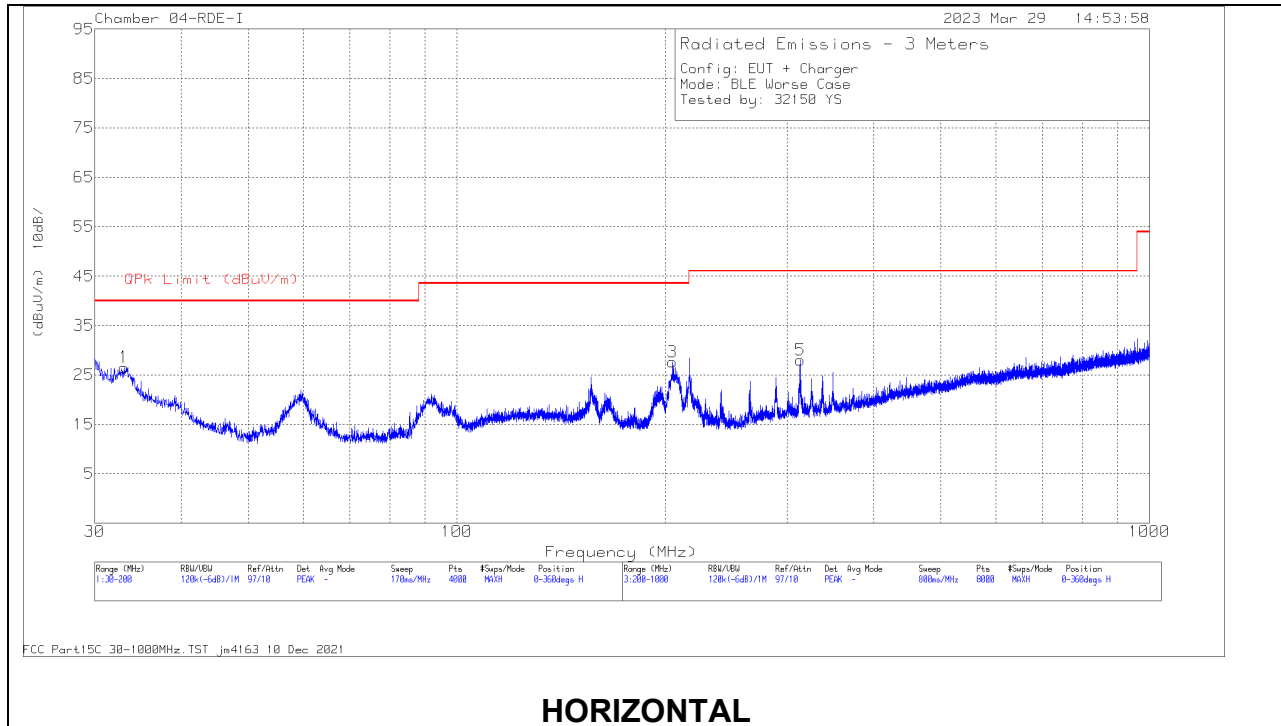
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.51	Pk	32.5	-40.38	53.63	-	-	74	-20.37	284	374	V
3	2.4835	49.89	RMS	32.5	-40.38	42.01	54	-11.99	-	-	284	374	V
2	2.514881	63.49	Pk	32.6	-40.27	55.82	-	-	74	-18.18	284	374	V
4	2.518343	51.05	RMS	32.6	-40.3	43.35	54	-10.65	-	-	284	374	V

Pk - Peak detector

RMS - RMS detection

10.3. WORST CASE BELOW 1 GHZ

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



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80714 ACF (dB) - 10mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.1033	32.25	Pk	25.5	-31.2	26.55	40	-13.45	0-360	199	H
2	33.0608	42	Pk	25.6	-31.2	36.4	40	-3.6	0-360	100	V
	33.1695	39.14	Qp	25.5	-31.2	33.44	40	-6.56	335	102	V
3	204.701	40.54	Pk	17.2	-30.1	27.64	43.52	-15.88	0-360	100	H
5	313.215	38.04	Pk	19.5	-29.5	28.04	46.02	-17.98	0-360	100	H
4	204.701	38.98	Pk	17.2	-30.1	26.08	43.52	-17.44	0-360	101	V
6	313.215	31.72	Pk	19.5	-29.5	21.72	46.02	-24.3	0-360	101	V

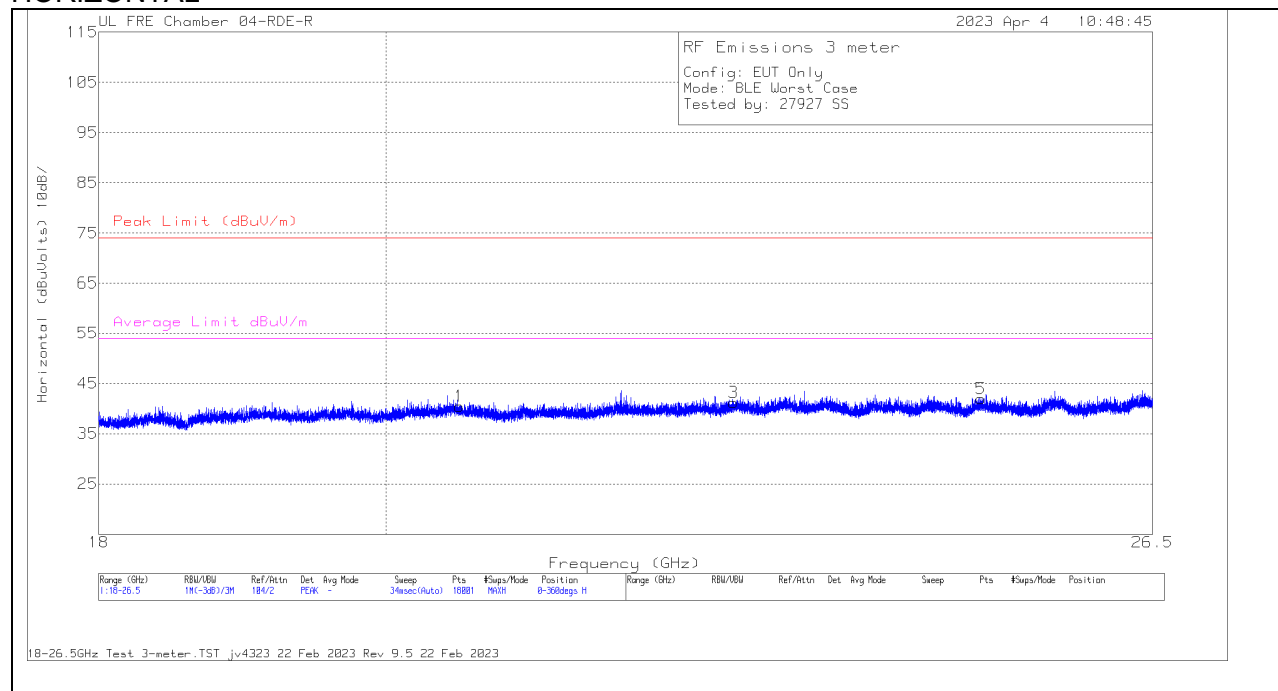
Pk - Peak detector

Qp - Quasi-Peak detector

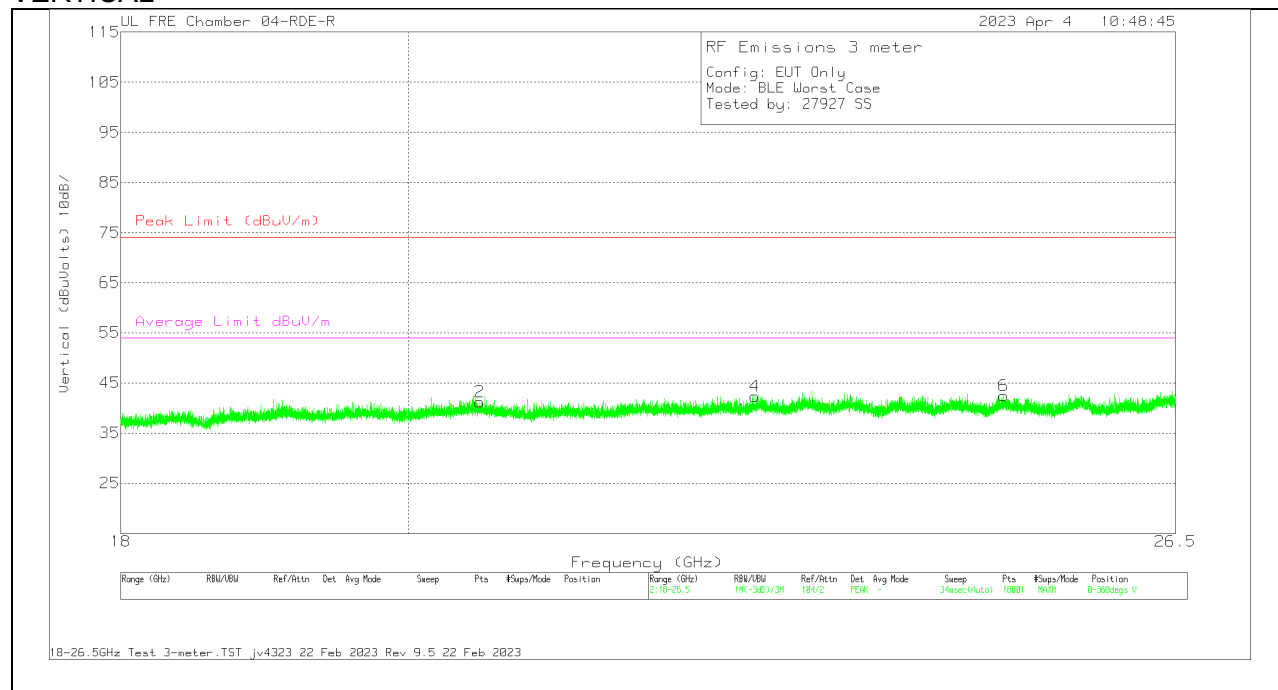
10.4. WORST CASE 18-26 GHz

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

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	17235 3 ACF (dB) - 3mH	17158 3 Amp Assembly (dB)	Cables (dB)	Corrected Reading (dBuV olts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	20.531582	55.56	Pk	33.4	-63.8	16.1	41.26	74	-32.74	54	-12.74	0-360	99	V
1	20.54811	54.8	Pk	33.4	-63.8	16.1	40.5	74	-33.5	54	-13.5	0-360	99	H
4	22.714664	57.32	Pk	33.8	-65.7	16.9	42.32	74	-31.68	54	-11.68	0-360	99	V
3	22.721276	56.19	Pk	33.8	-65.7	16.9	41.19	74	-32.81	54	-12.81	0-360	99	H
6	24.882163	54.55	Pk	34.6	-64.4	17.7	42.45	74	-31.55	54	-11.55	0-360	99	V
5	24.884525	54.07	Pk	34.6	-64.4	17.7	41.97	74	-32.03	54	-12.03	0-360	99	H

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

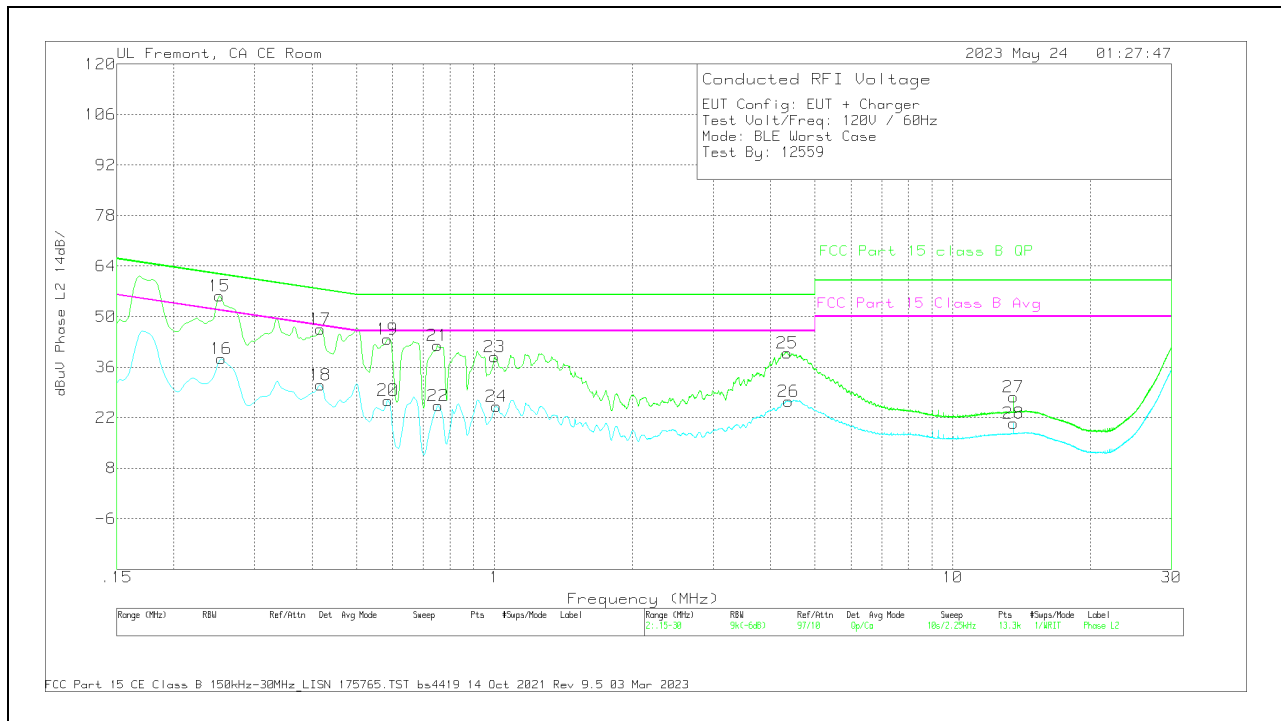


Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	C1&C3 cable path loss (dB)	PRE0186447 LISN L1 (dB)	207996 Limiter with short cabl (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.2535	19.11	Ca	0	0	9.3	10	38.41	51.64	-13.23	-	-
4	.4155	12.3	Ca	.1	0	9.3	10	31.7	47.54	-15.84	-	-
6	.501	12.19	Ca	.1	0	9.3	10	31.59	46	-14.41	-	-
8	.6675	8.19	Ca	.1	0	9.3	10	27.59	46	-18.41	-	-
10	.9195	7.87	Ca	.1	0	9.3	10	27.27	46	-18.73	-	-
12	4.5533	9.22	Ca	.1	0	9.3	10	28.62	46	-17.38	-	-
14	13.56	1.98	Ca	.2	.1	9.3	10	21.58	50	-28.42	-	-
1	.231	38.14	Qp	0	0	9.3	10	57.44	-	-	62.41	-4.97
3	.384	28.43	Qp	.1	0	9.3	10	47.83	-	-	58.19	-10.36
5	.537	26.71	Qp	.1	0	9.3	10	46.11	-	-	56	-9.89
7	.6855	24.1	Qp	.1	0	9.3	10	43.5	-	-	56	-12.5
9	.9218	21.25	Qp	.1	0	9.3	10	40.65	-	-	56	-15.35
11	4.5578	21.21	Qp	.1	0	9.3	10	40.61	-	-	56	-15.39
13	13.56	7.8	Qp	.2	.1	9.3	10	27.4	-	-	60	-32.6

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz

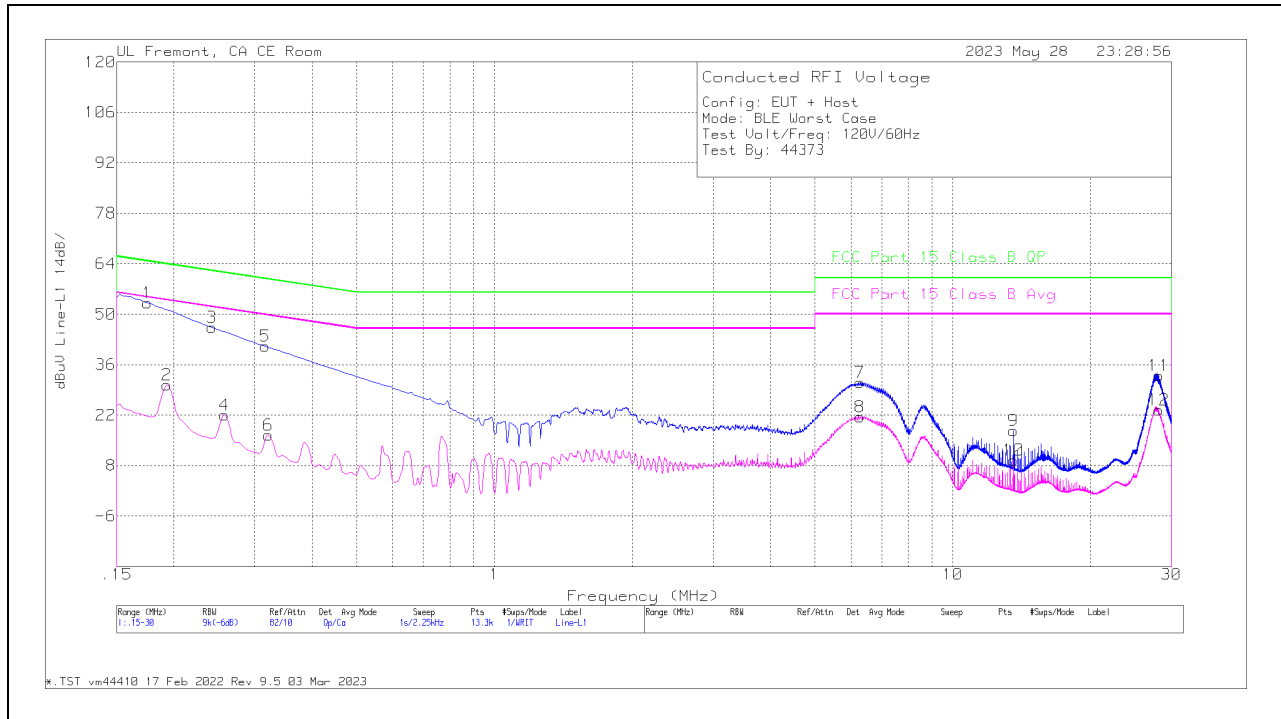
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	C2&C3 cable path loss (dB)	PRE0186447 LISN L2 (dB)	207996 Limiter with short cabl (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
16	.2535	19.04	Ca	0	0	9.3	10	38.34	51.64	-13.3	-	-
18	.4178	11.7	Ca	.1	0	9.3	10	31.1	47.49	-16.39	-	-
20	.5865	7.39	Ca	.1	0	9.3	10	26.79	46	-19.21	-	-
22	.753	5.91	Ca	.1	0	9.3	10	25.31	46	-20.69	-	-
24	1.0118	5.71	Ca	.1	0	9.3	10	25.11	46	-20.89	-	-
26	4.3766	7.2	Ca	.1	0	9.3	10	26.6	46	-19.4	-	-
28	13.56	.89	Ca	.2	.1	9.3	10	20.49	50	-29.51	-	-
15	.2513	36.5	Qp	0	0	9.3	10	55.8	-	-	61.72	-5.92
17	.4178	27.19	Qp	.1	0	9.3	10	46.59	-	-	57.49	-10.9
19	.5843	24.41	Qp	.1	0	9.3	10	43.81	-	-	56	-12.19
21	.7508	22.59	Qp	.1	0	9.3	10	41.99	-	-	56	-14.01
23	1.0005	19.41	Qp	.1	0	9.3	10	38.81	-	-	56	-17.19
25	4.3598	20.52	Qp	.1	0	9.3	10	39.92	-	-	56	-16.08
27	13.56	8.2	Qp	.2	.1	9.3	10	27.8	-	-	60	-32.2

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line With Laptop

LINE 1 RESULTS



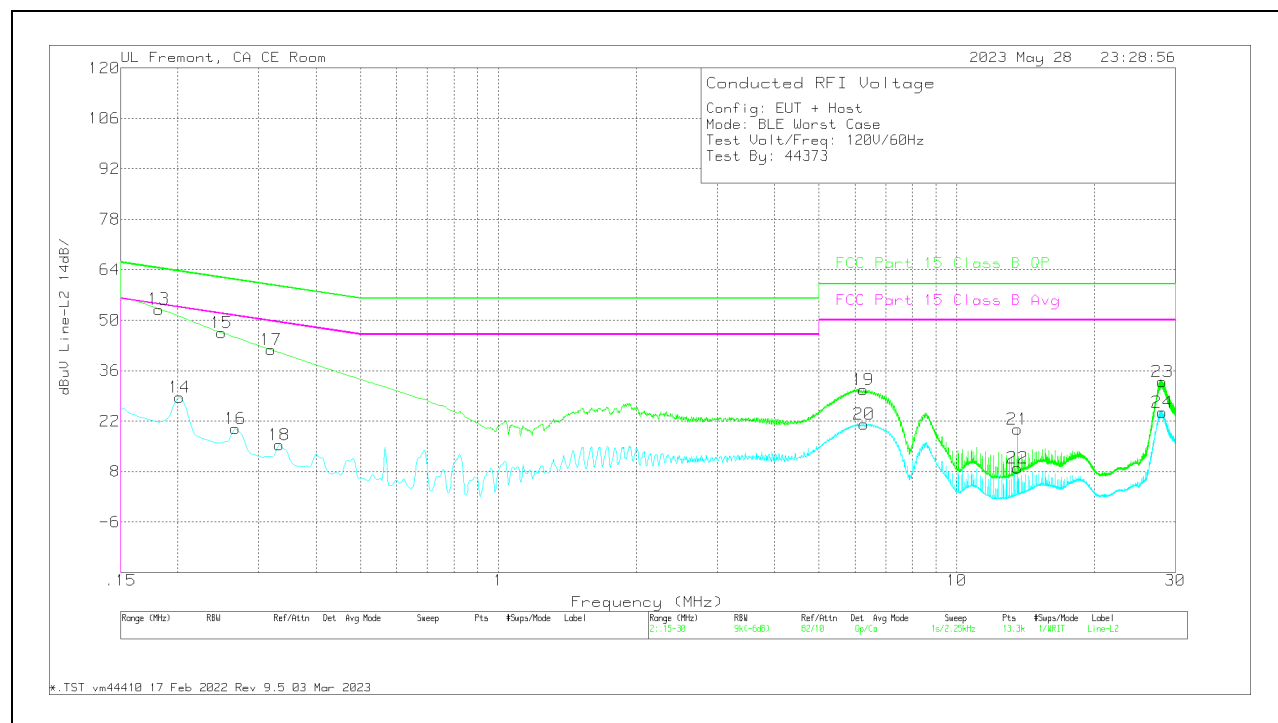
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv (dB)	C1&C3 cable path loss (dB)	207996 Limiter with short cable (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)
2	.1928	21.03	Ca	0	0	9.4	30.43	-	-	53.92	-23.49
4	.258	12.72	Ca	0	0	9.3	22.02	-	-	51.5	-29.48
6	.321	7.21	Ca	0	0	9.3	16.51	-	-	49.68	-33.17
8	6.27	12.05	Ca	0	.1	9.3	21.45	-	-	50	-28.55
10	13.56	-.03	Ca	.1	.2	9.3	9.57	-	-	50	-40.43
12	28.1378	13.35	Ca	.3	.3	9.4	23.35	-	-	50	-26.65
1	.1748	43.74	Qp	0	0	9.4	53.14	64.73	-11.59	-	-
3	.2423	37.02	Qp	0	0	9.3	46.32	62.02	-15.7	-	-
5	.3165	31.78	Qp	0	0	9.3	41.08	59.8	-18.72	-	-
7	6.2678	21.6	Qp	0	.1	9.3	31	60	-29	-	-
9	13.56	8.08	Qp	.1	.2	9.3	17.68	60	-42.32	-	-
11	28.14	22.92	Qp	.3	.3	9.4	32.92	60	-27.08	-	-

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) Margin (dB)
14	.2018	19.14	Ca	0	0	9.4	28.54	-	-	53.54	-25
16	.267	10.56	Ca	0	0	9.3	19.86	-	-	51.21	-31.35
18	.3323	6.04	Ca	0	0	9.3	15.34	-	-	49.39	-34.05
20	6.2723	11.71	Ca	0	.1	9.3	21.11	-	-	50	-28.89
22	13.56	-.55	Ca	.1	.2	9.3	9.05	-	-	50	-40.95
24	28.1108	14.38	Ca	.3	.3	9.4	24.38	-	-	50	-25.62
13	.1815	43.64	Qp	0	0	9.4	53.04	64.42	-11.38	-	-
15	.249	37.22	Qp	0	0	9.3	46.52	61.79	-15.27	-	-
17	.3188	32.46	Qp	0	0	9.3	41.76	59.74	-17.98	-	-
19	6.252	21.33	Qp	0	.1	9.3	30.73	60	-29.27	-	-
21	13.56	10.19	Qp	.1	.2	9.3	19.79	60	-40.21	-	-
23	28.1198	23	Qp	.3	.3	9.4	33	60	-27	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to setup photos 14523758-EP1V1

END OF TEST REPORT