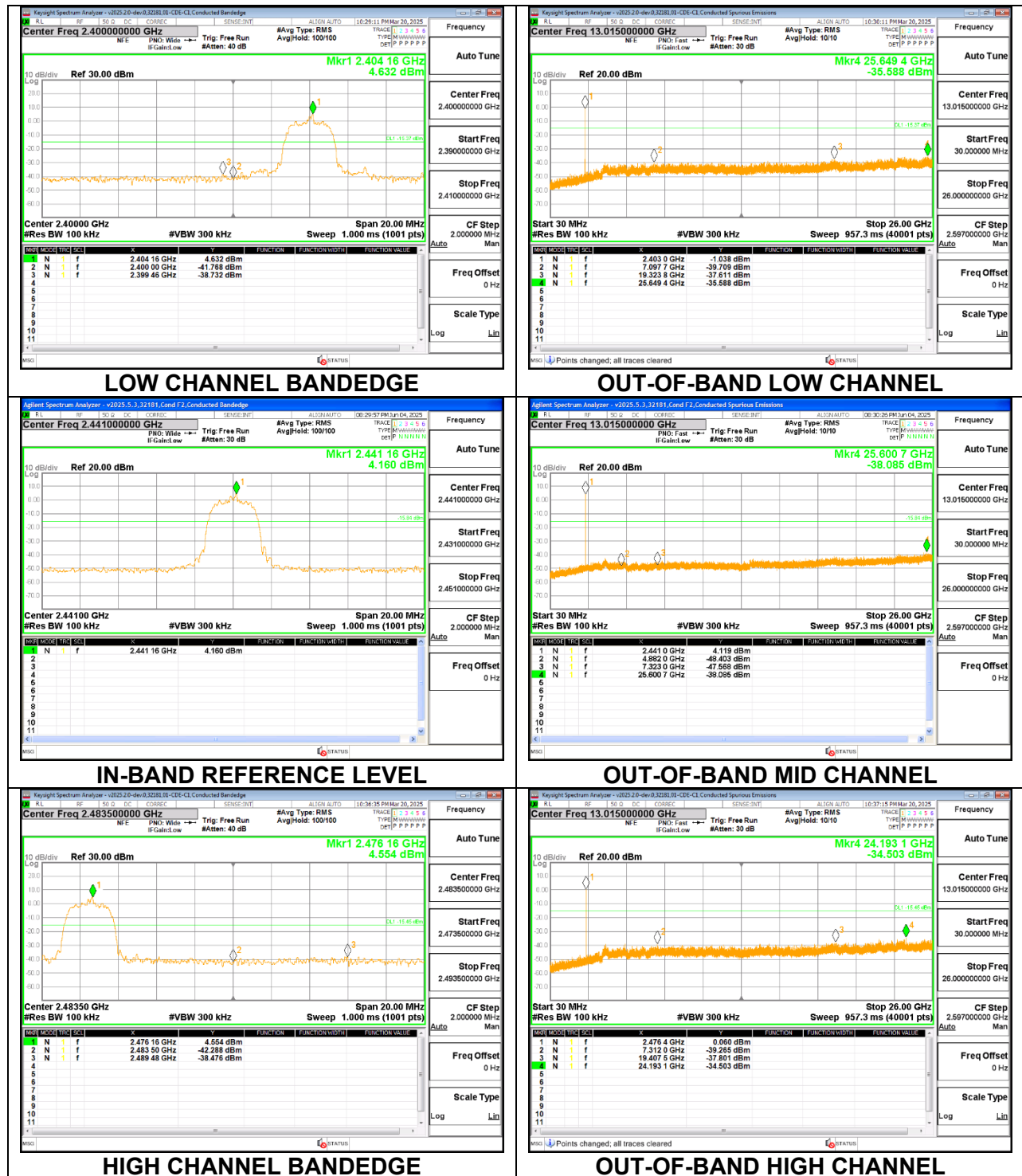
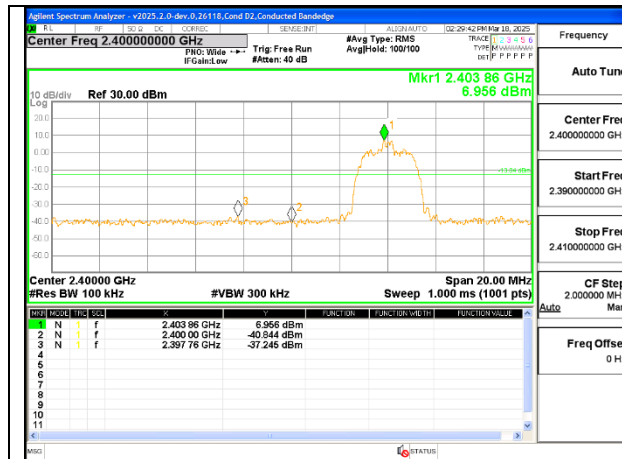
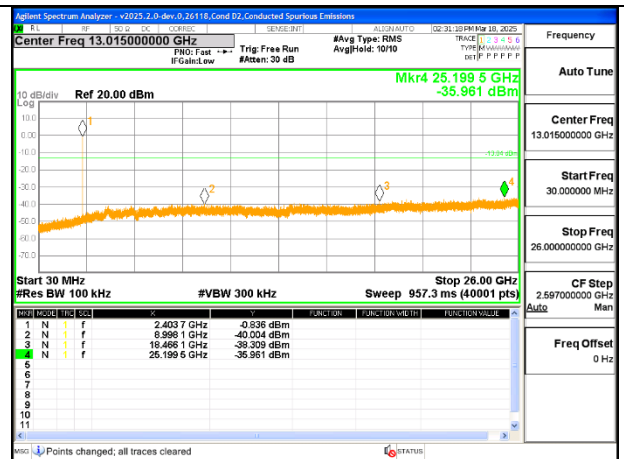
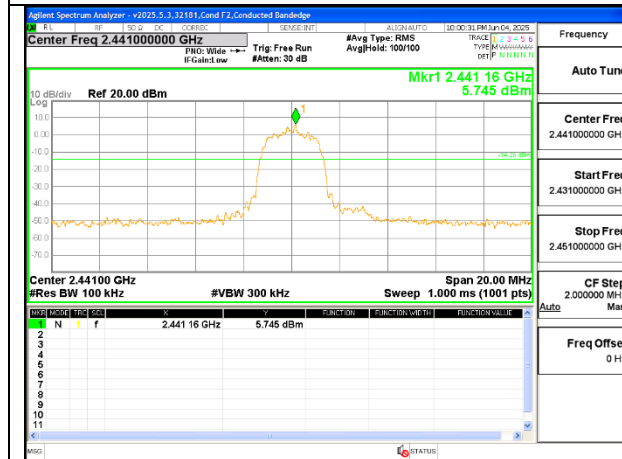
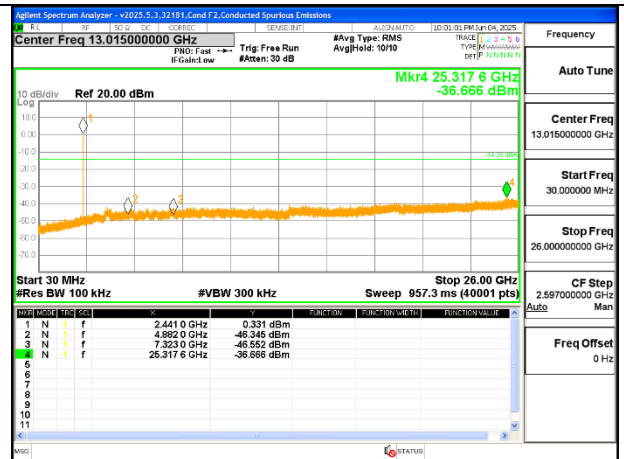
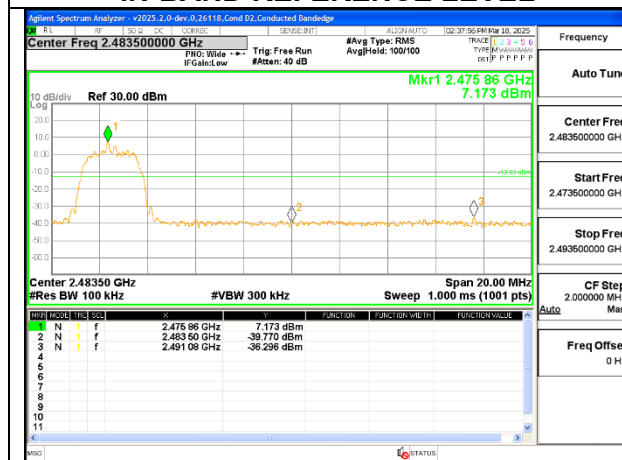
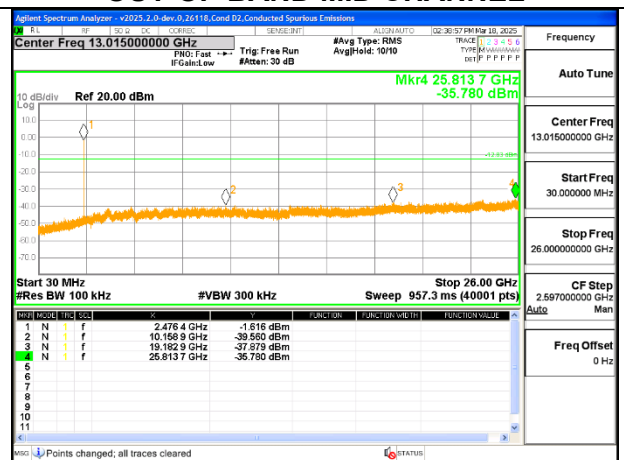


9.7.5. LOW POWER HDR (HDR4)

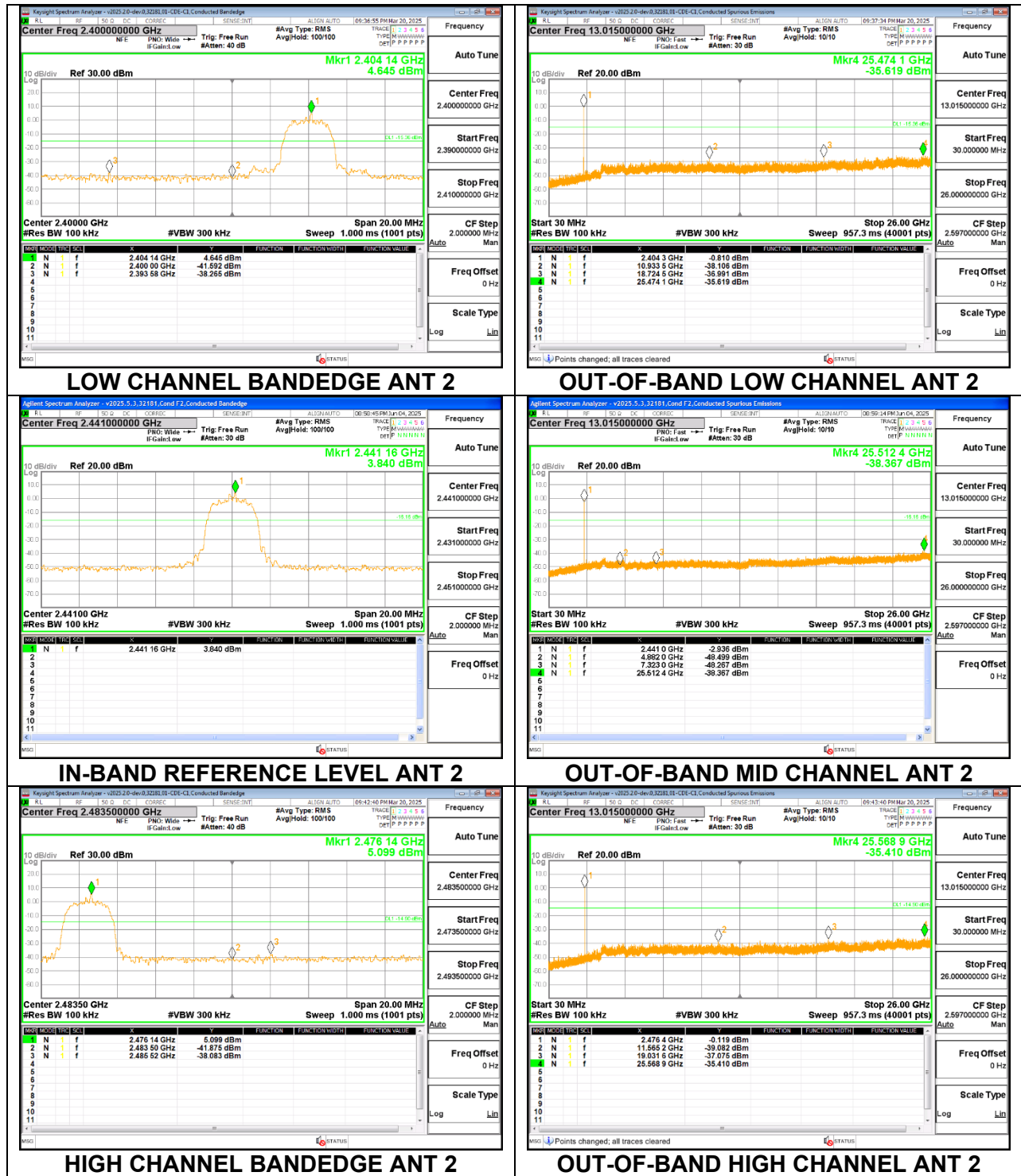
ANT 2

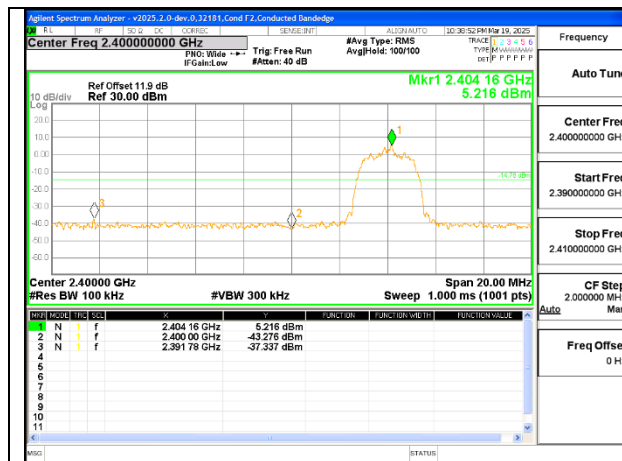
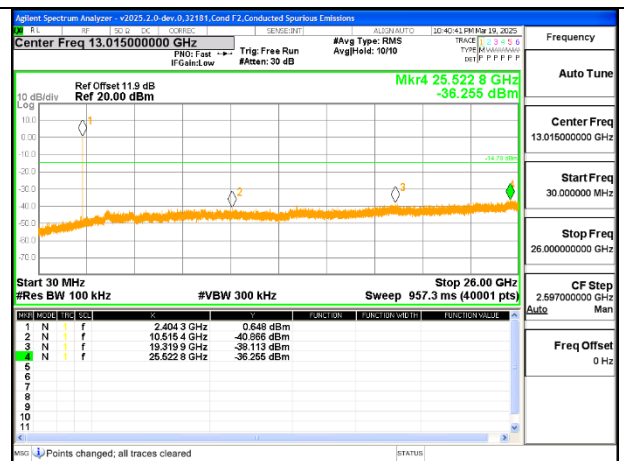
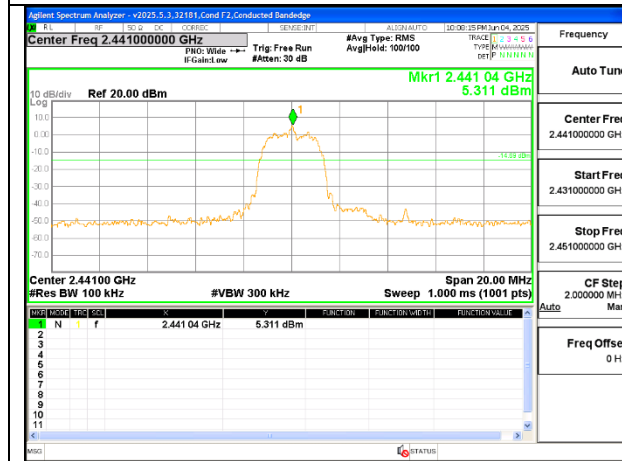
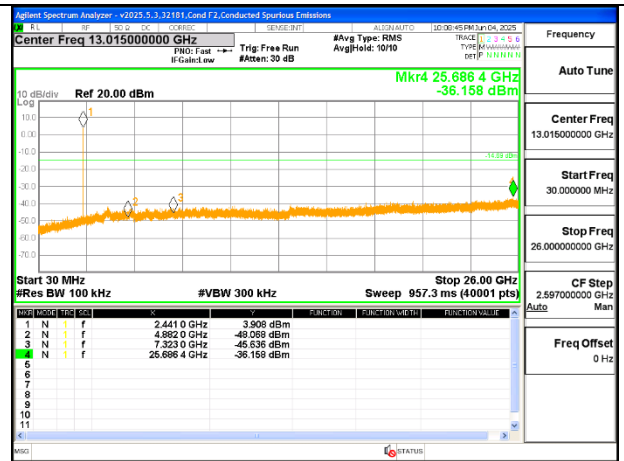
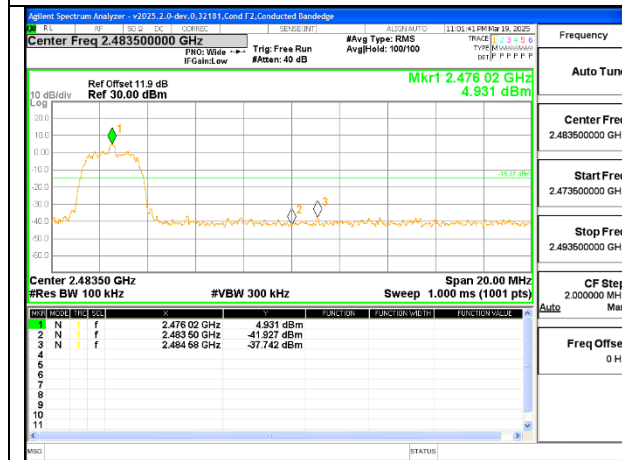
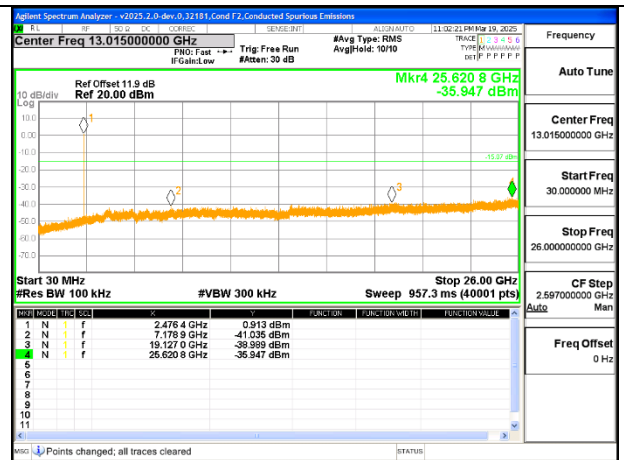


ANT 1**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

9.7.6. LOW POWER HDR TXBF (HDR4)

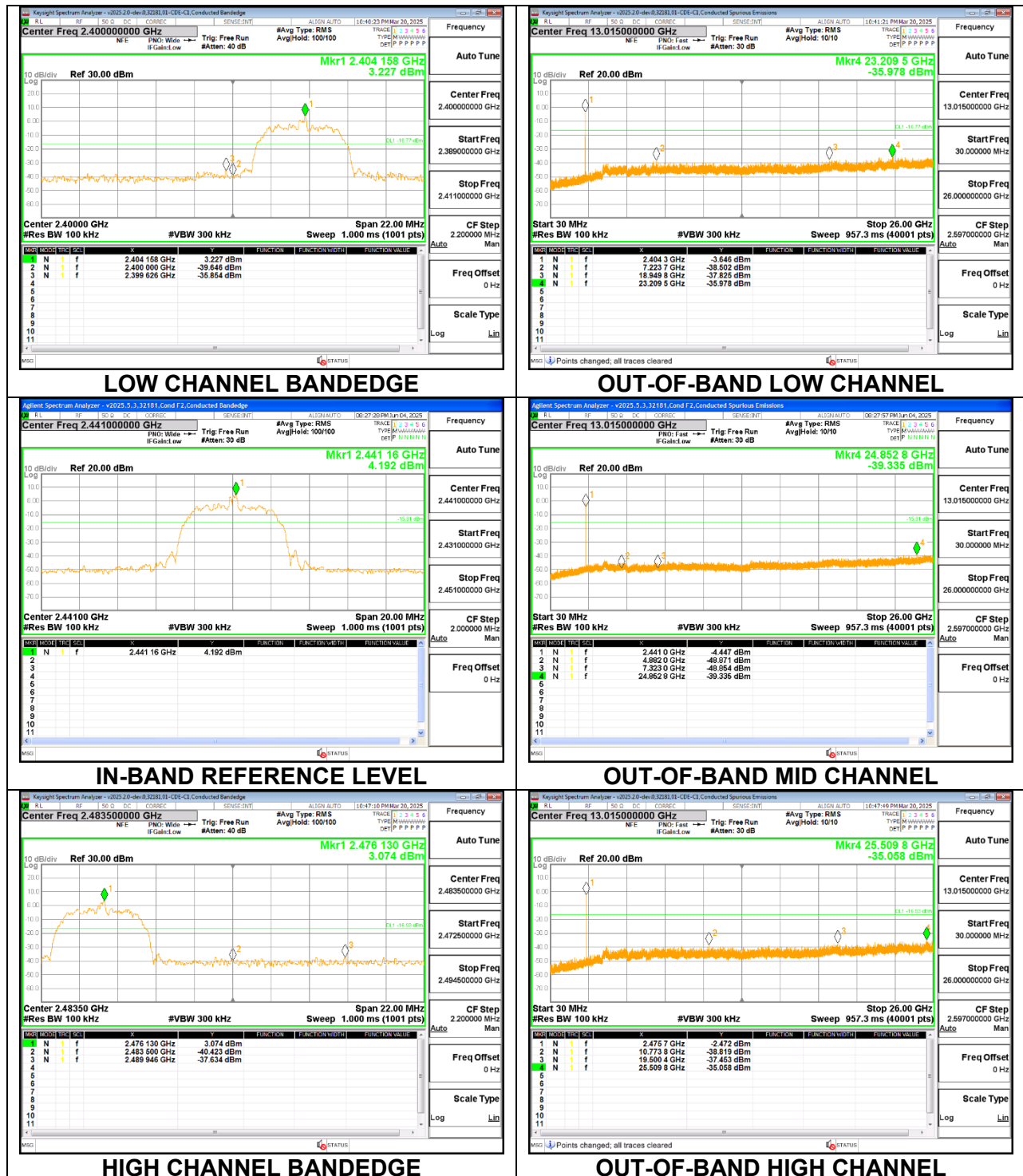
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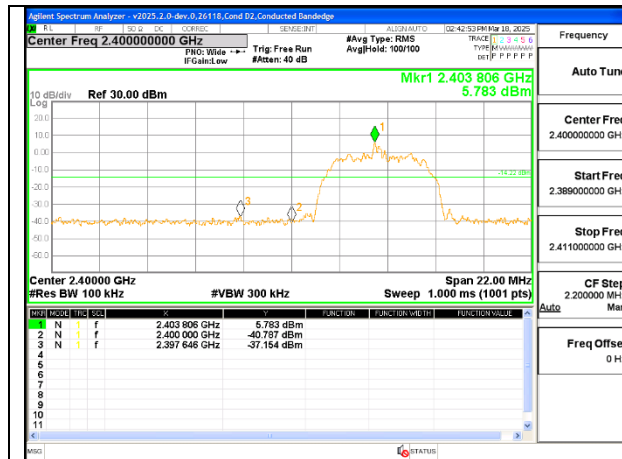
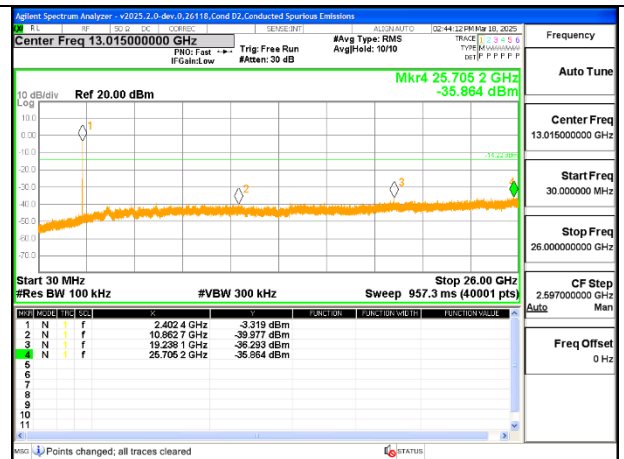
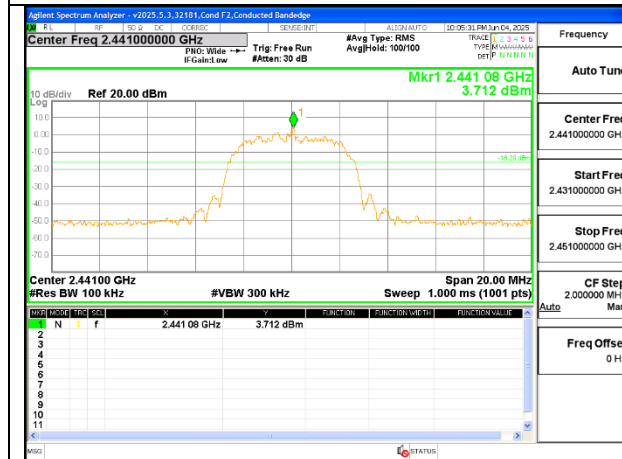
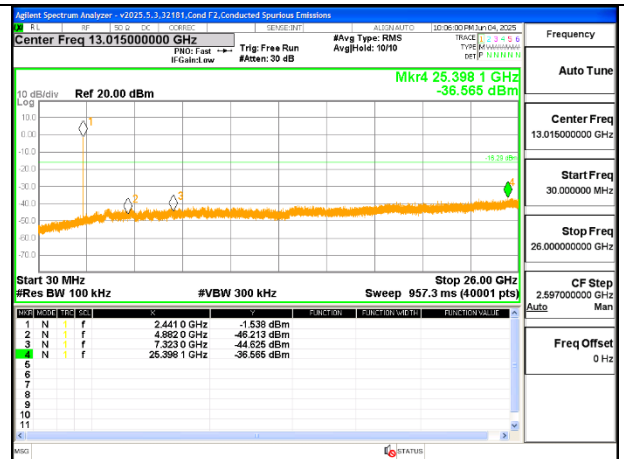
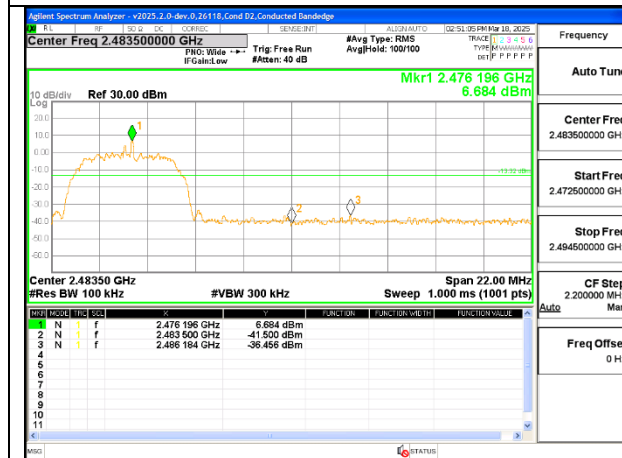
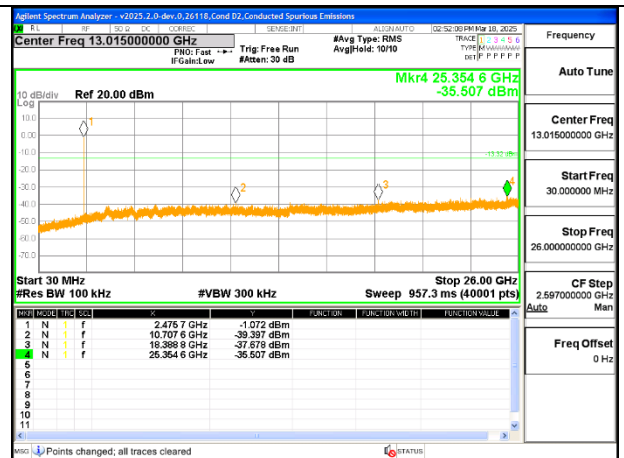


ANT 1**LOW CHANNEL BANDEDGE ANT 1****OUT-OF-BAND LOW CHANNEL ANT 1****IN-BAND REFERENCE LEVEL ANT 1****OUT-OF-BAND MID CHANNEL ANT 1****HIGH CHANNEL BANDEDGE ANT 1****OUT-OF-BAND HIGH CHANNEL ANT 1**

9.7.7. LOW POWER HDR (HDR8)

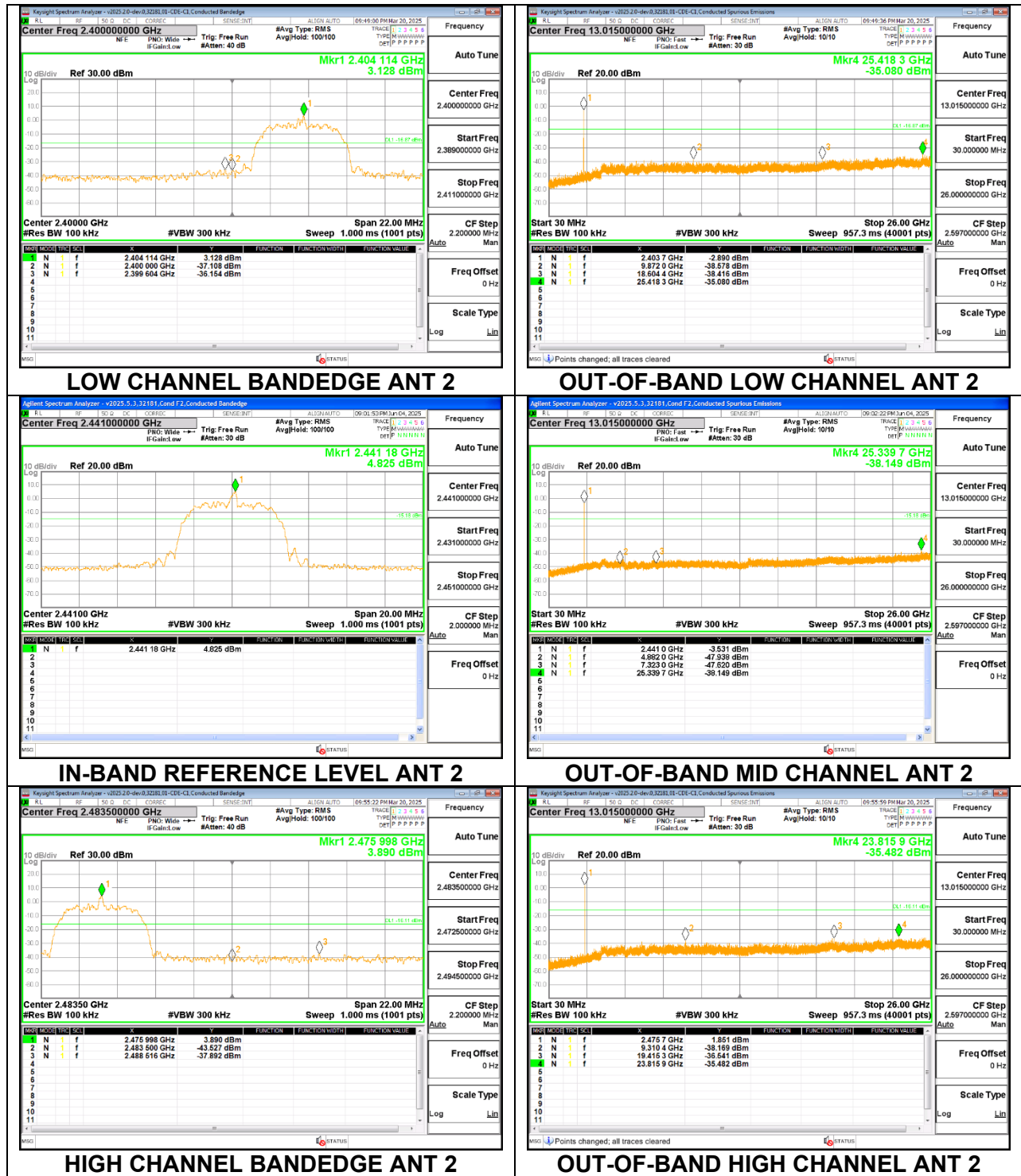
ANT 2

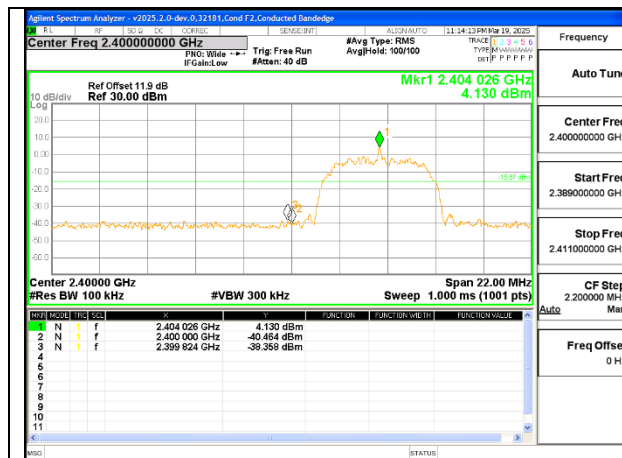
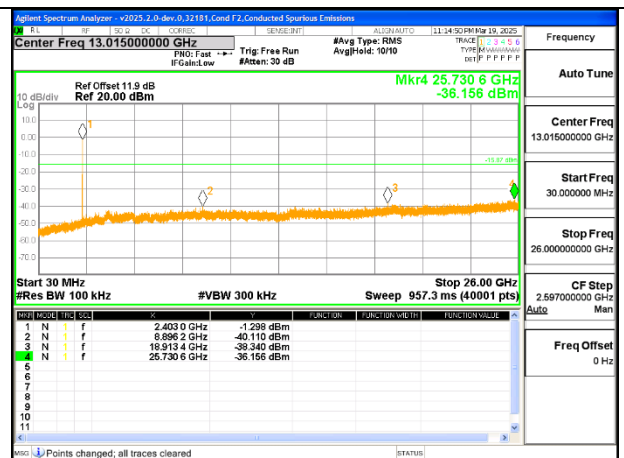
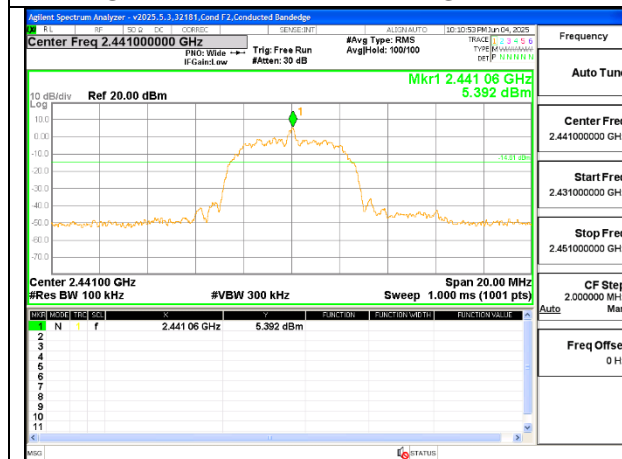
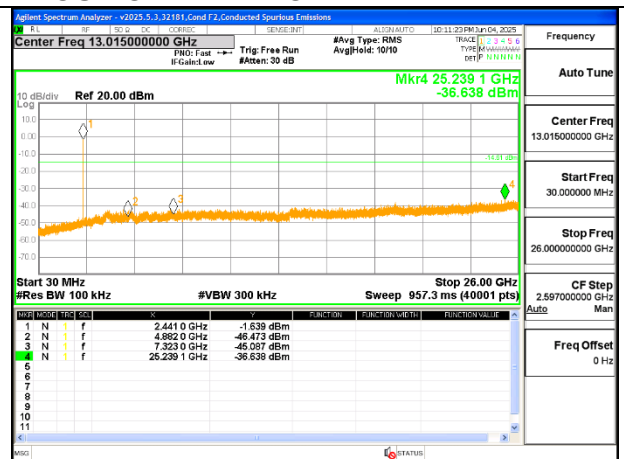
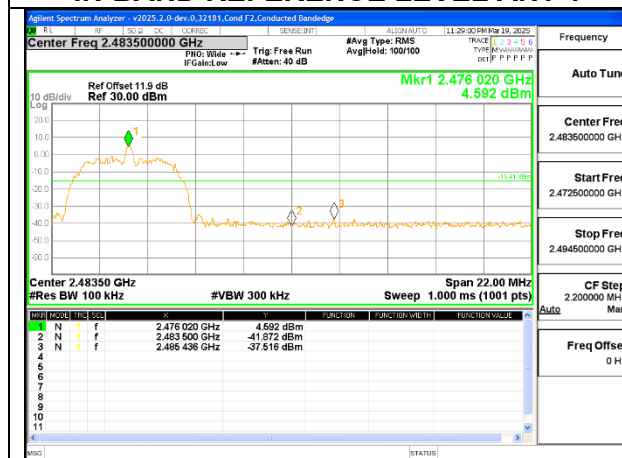
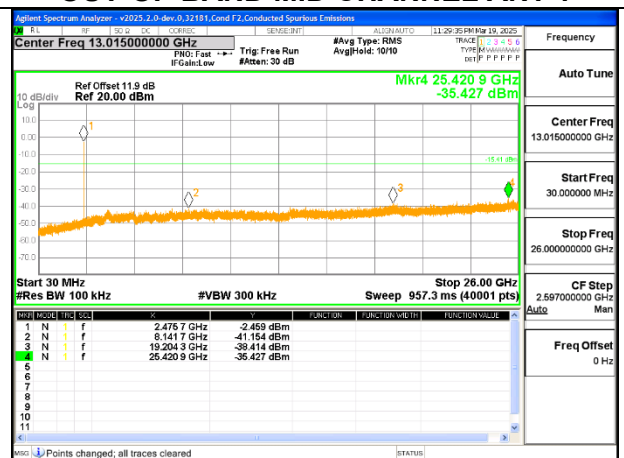


ANT 1**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

9.7.8. LOW POWER HDR TXBF (HDR8)

ANT 2



ANT 1**LOW CHANNEL BANDEDGE ANT 1****OUT-OF-BAND LOW CHANNEL ANT 1****IN-BAND REFERENCE LEVEL ANT 1****OUT-OF-BAND MID CHANNEL ANT 1****HIGH CHANNEL BANDEDGE ANT 1****OUT-OF-BAND HIGH CHANNEL ANT 1**

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

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.

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.

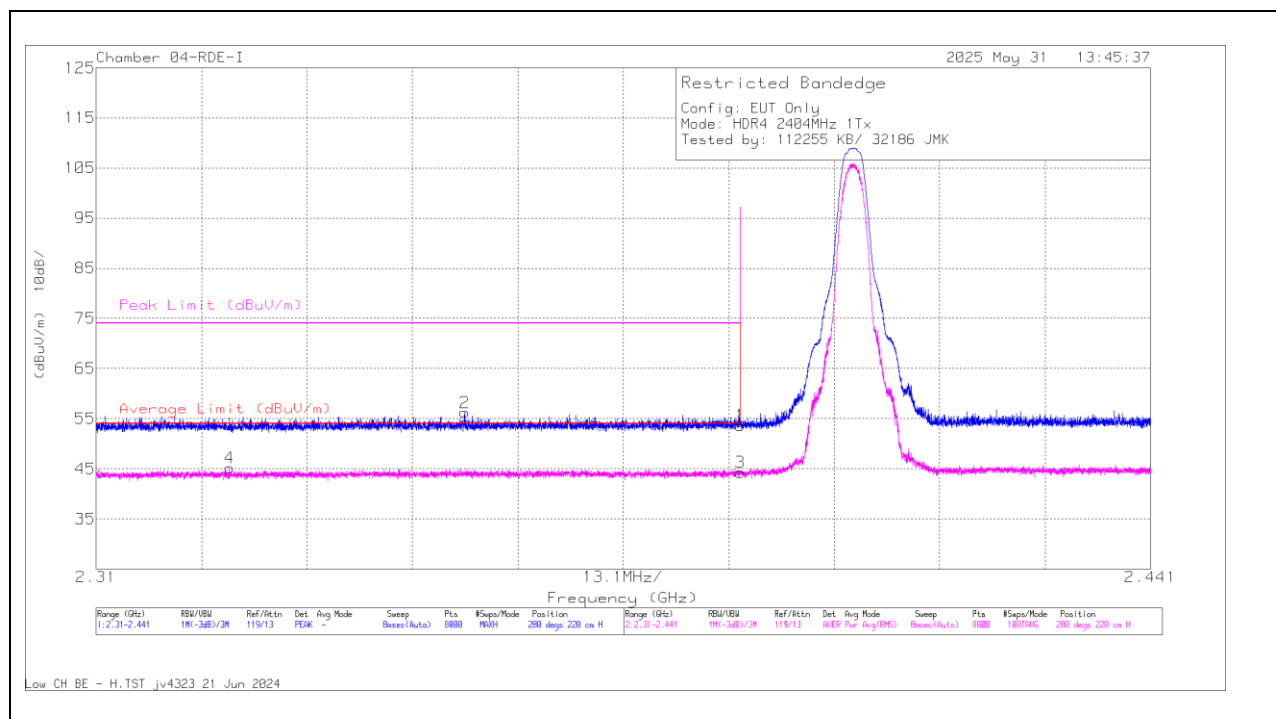
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. HIGH POWER HDR (HDR4)

ANT 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



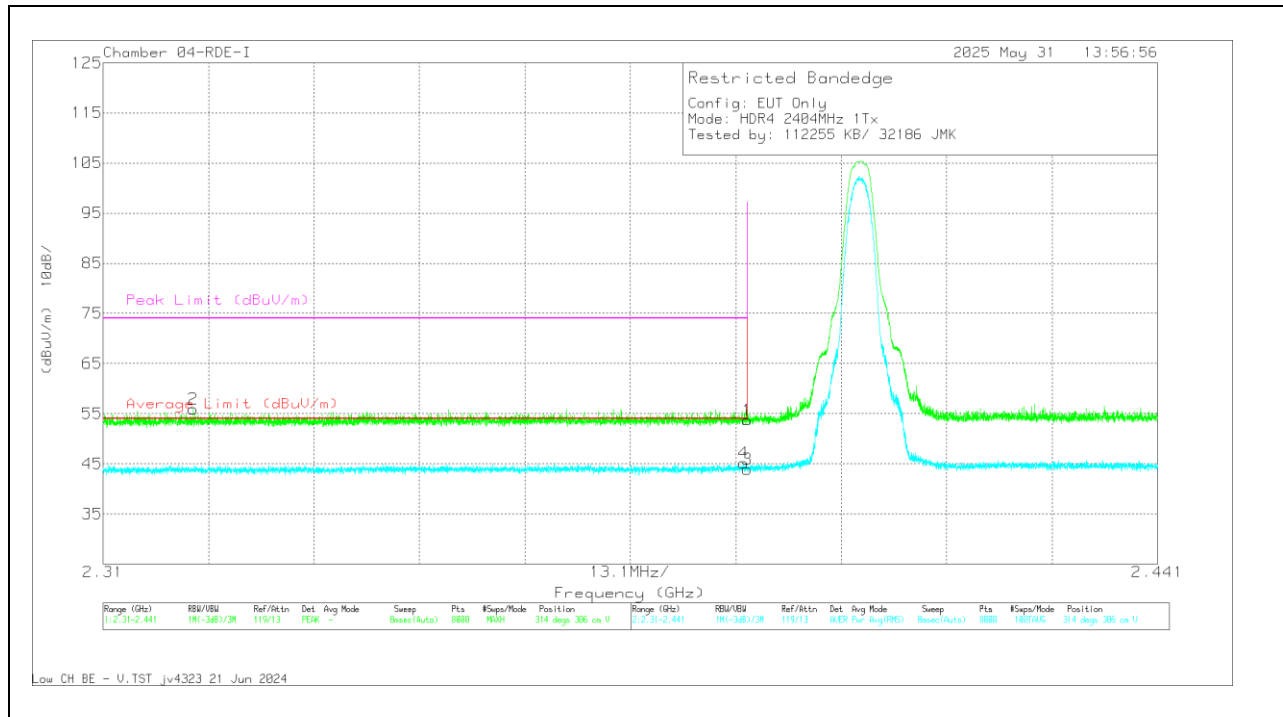
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.75	Pk	31.8	-19.9	0	53.65	-	-	74	-20.35	280	220	H
2	* 2.355774	44.22	Pk	31.7	-19.7	0	56.22	-	-	74	-17.78	280	220	H
3	* 2.39	31.3	RMS	31.8	-19.9	1.08	44.28	54	-9.72	-	-	280	220	H
4	* 2.32659	32.17	RMS	31.6	-19.7	1.08	45.15	54	-8.85	-	-	280	220	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

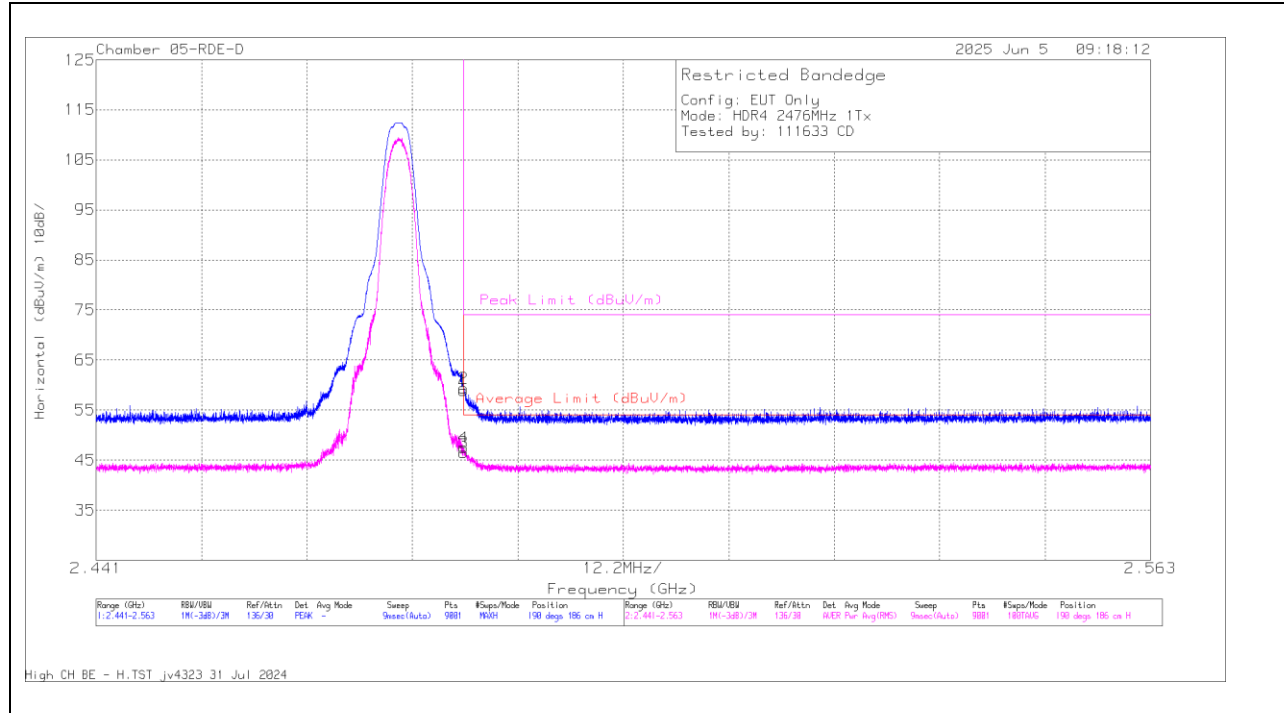


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF (dB/m)	Amp/Cbl /Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.81	Pk	31.8	-19.9	0	53.71	-	-	74	-20.29	314	306	V
2	* 2.321185	44	Pk	31.6	-19.7	0	55.9	-	-	74	-18.1	314	306	V
3	* 2.39	30.9	RMS	31.8	-19.9	1.08	43.88	54	-10.12	-	-	314	306	V
4	* 2.389592	32.11	RMS	31.8	-19.8	1.08	45.19	54	-8.81	-	-	314	306	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

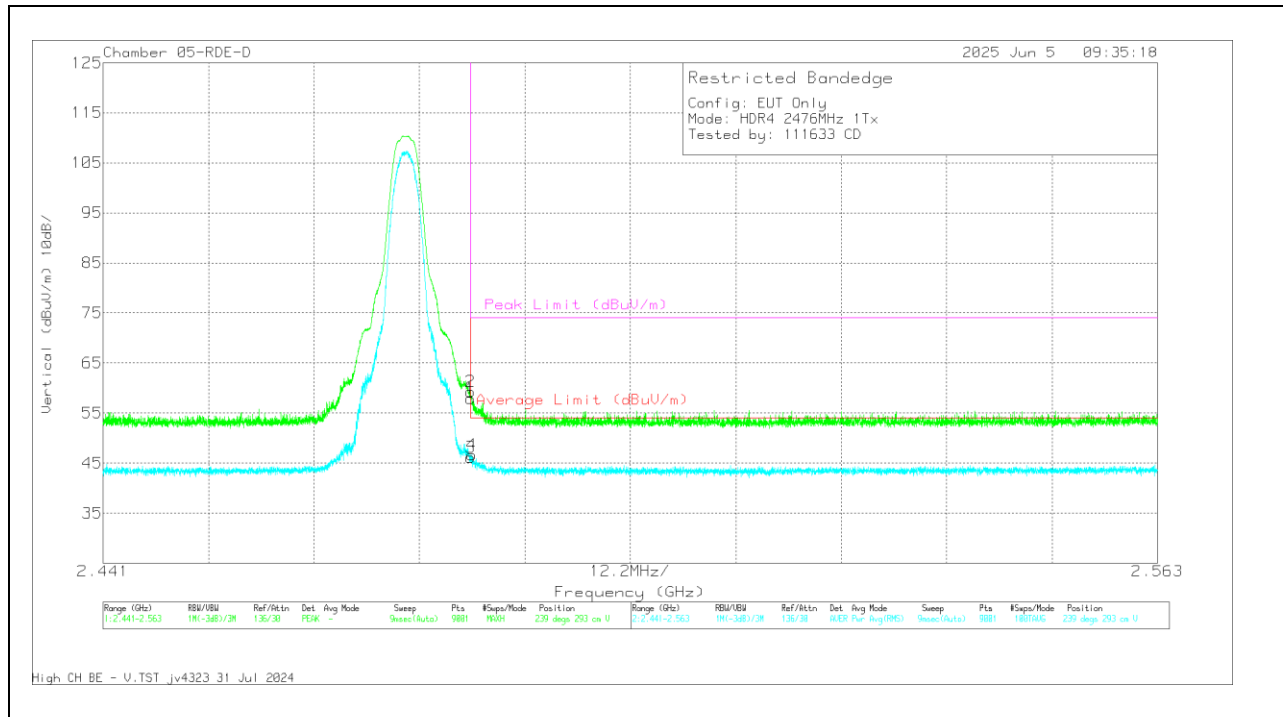
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	67.22	Pk	32.4	0	-40.71	58.91	-	-	74	-15.09	190	186	H
2	*2.483539	67.66	Pk	32.4	0	-40.71	59.35	-	-	74	-14.65	190	186	H
3	*2.4835	53.8	RMS	32.4	1.08	-40.71	46.57	54	-7.43	-	-	190	186	H
4	*2.483525	54.7	RMS	32.4	1.08	-40.71	47.47	54	-6.53	-	-	190	186	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

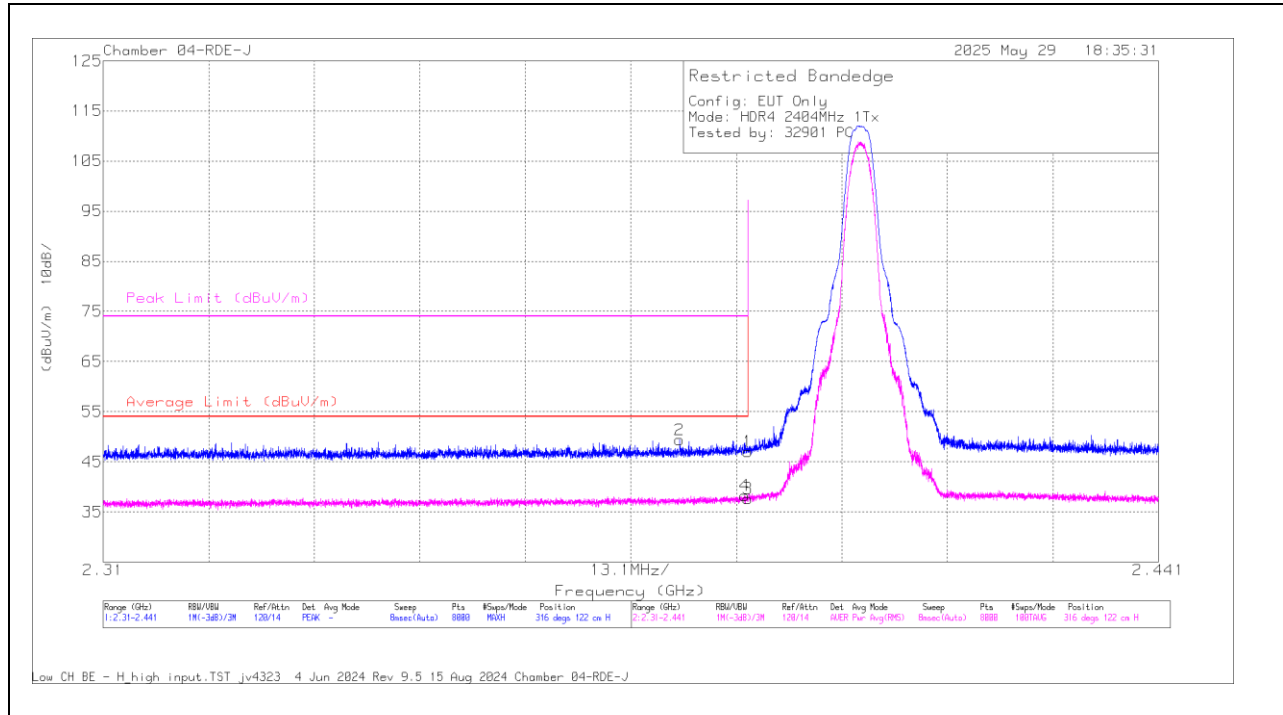


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	66.19	Pk	32.4	0	-40.71	57.88	-	-	74	-16.12	239	293	V
2	*2.483512	67.6	Pk	32.4	0	-40.71	59.29	-	-	74	-14.71	239	293	V
3	*2.4835	53.38	RMS	32.4	1.08	-40.71	46.15	54	-7.85	-	-	239	293	V
4	*2.483688	53.83	RMS	32.4	1.08	-40.7	46.61	54	-7.39	-	-	239	293	V

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

Pk - Peak detector

RMS - RMS detection

ANT 1**BANEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

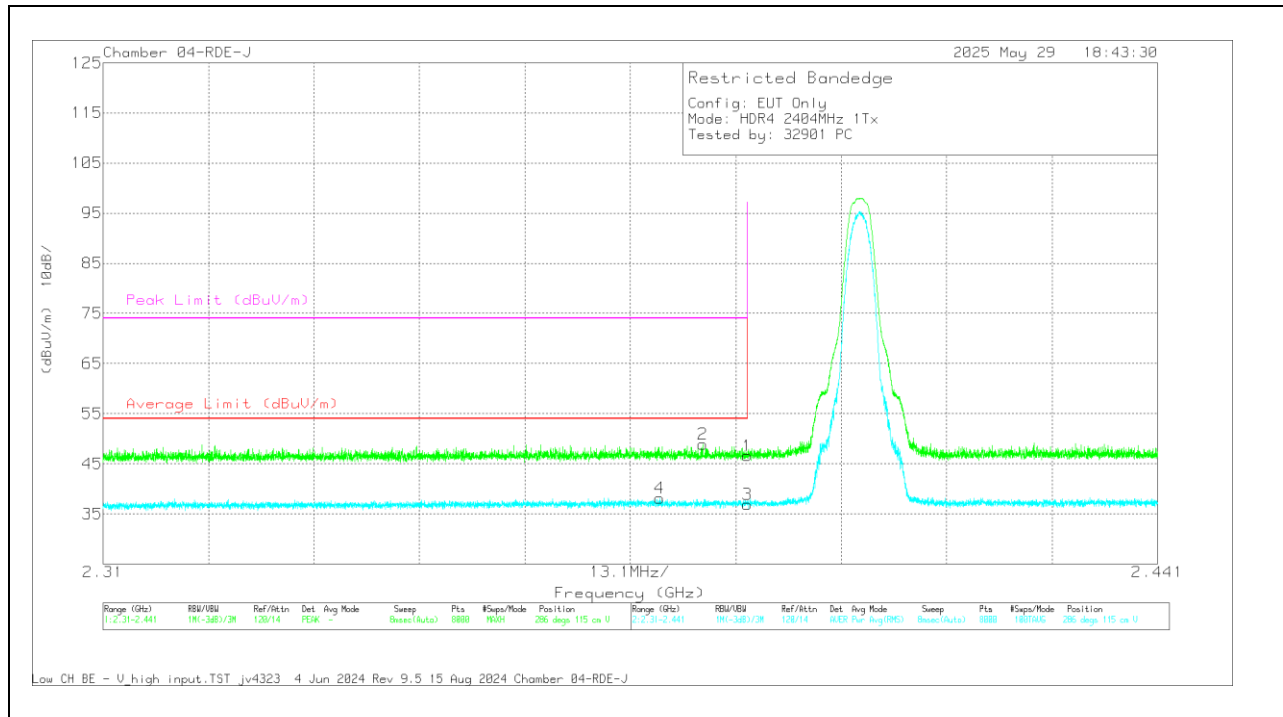
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.06	Pk	32.2	-28.2	0	47.06	-	-	74	-26.94	316	122	H
2	* 2.381584	45.45	Pk	32.2	-28.3	0	49.35	-	-	74	-24.65	316	122	H
3	* 2.39	32.56	RMS	32.2	-28.2	1.08	37.64	54	-16.36	-	-	316	122	H
4	* 2.389625	33.18	RMS	32.2	-28.2	1.08	38.26	54	-15.74	-	-	316	122	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

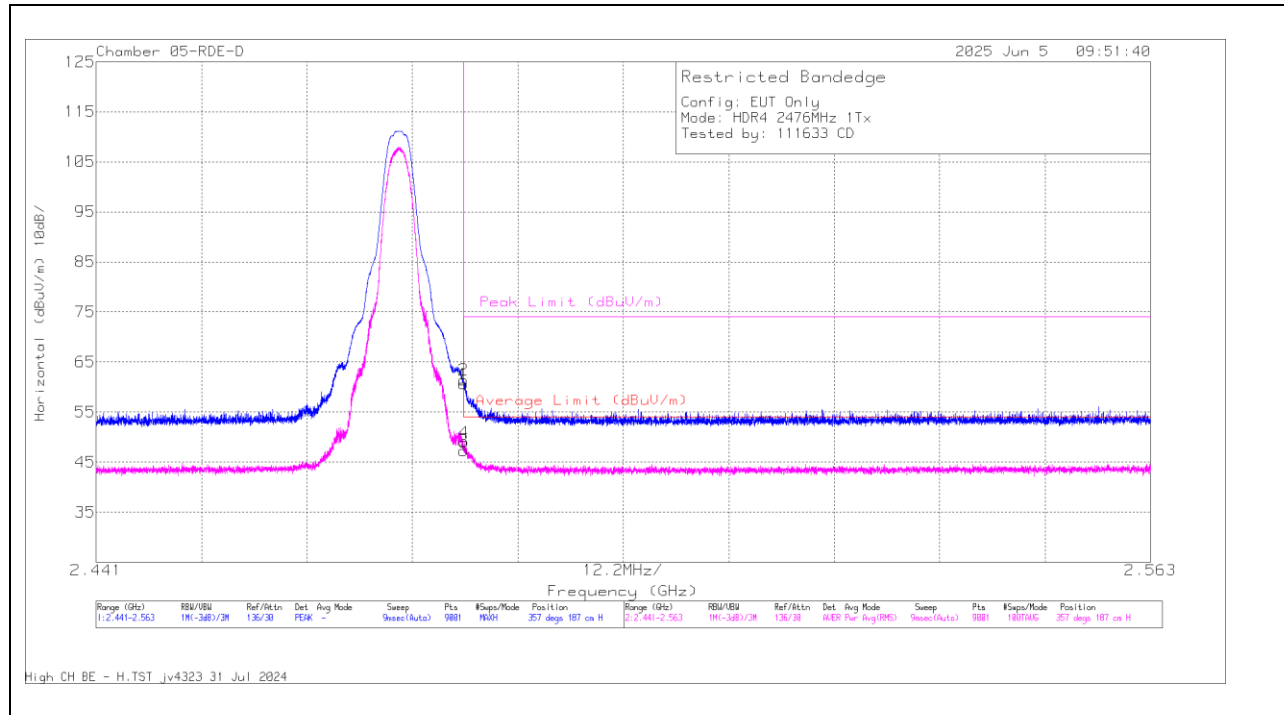


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.59	Pk	32.2	-28.2	0	46.59	-	-	74	-27.41	286	115	V
2	* 2.384483	44.99	Pk	32.2	-28.3	0	48.89	-	-	74	-25.11	286	115	V
3	* 2.39	31.81	RMS	32.2	-28.2	1.08	36.89	54	-17.11	-	-	286	115	V
4	* 2.379111	33.07	RMS	32.2	-28.2	1.08	38.15	54	-15.85	-	-	286	115	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

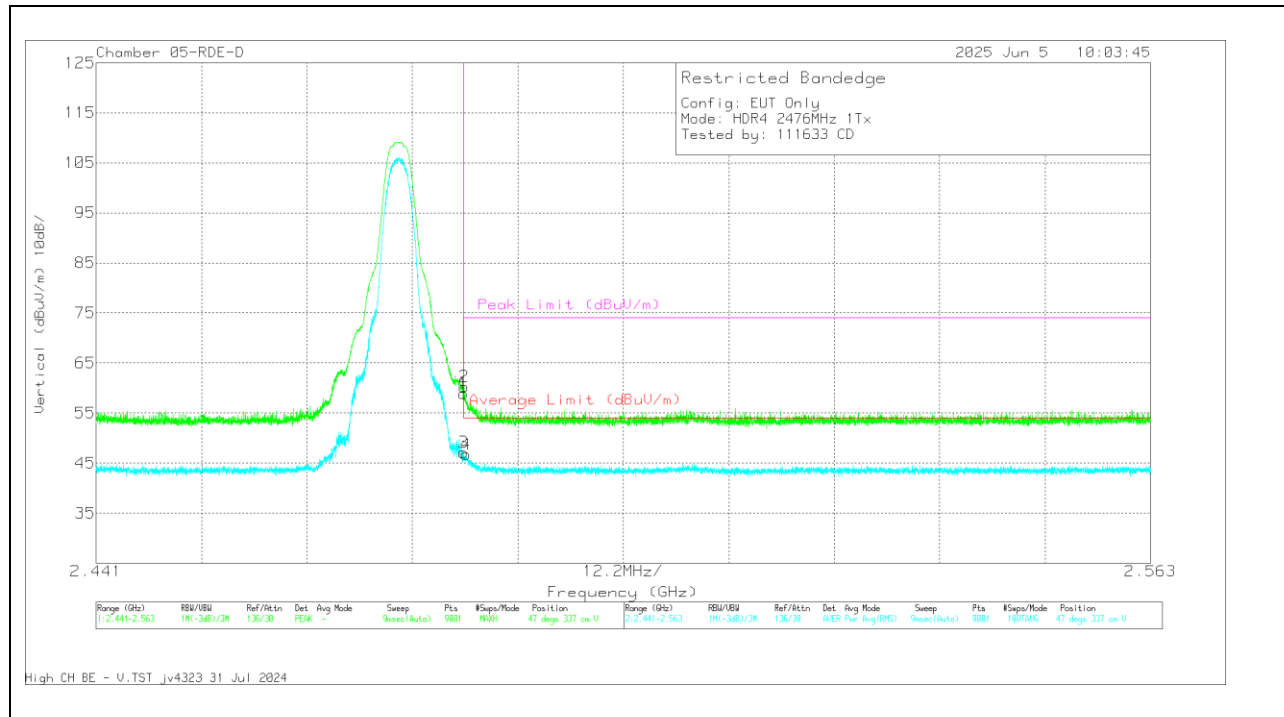
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	68.91	Pk	32.4	0	-40.71	60.6	-	-	74	-13.4	357	187	H
2	*2.483539	69.73	Pk	32.4	0	-40.71	61.42	-	-	74	-12.58	357	187	H
3	*2.4835	54.48	RMS	32.4	1.08	-40.71	47.25	54	-6.75	-	-	357	187	H
4	*2.483566	56.19	RMS	32.4	1.08	-40.71	48.96	54	-5.04	-	-	357	187	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

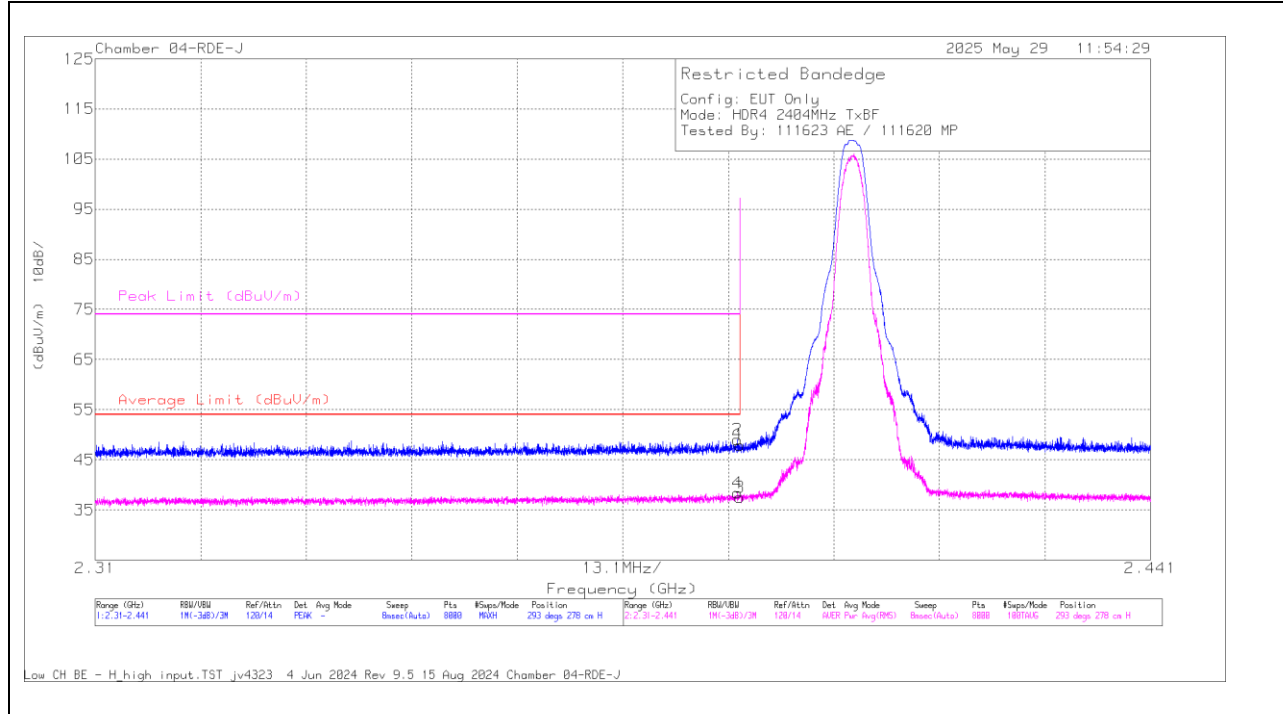


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	67.23	Pk	32.4	0	-40.71	58.92	-	-	74	-15.08	47	337	V
2	*2.483593	68.65	Pk	32.4	0	-40.71	60.34	-	-	74	-13.66	47	337	V
3	*2.4835	54.4	RMS	32.4	1.08	-40.71	47.17	54	-6.83	-	-	47	337	V
4	*2.483783	53.94	RMS	32.4	1.08	-40.7	46.72	54	-7.28	-	-	47	337	V

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

Pk - Peak detector

RMS - RMS detection

10.2.2. HIGH POWER HDR TXBF (HDR4)**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

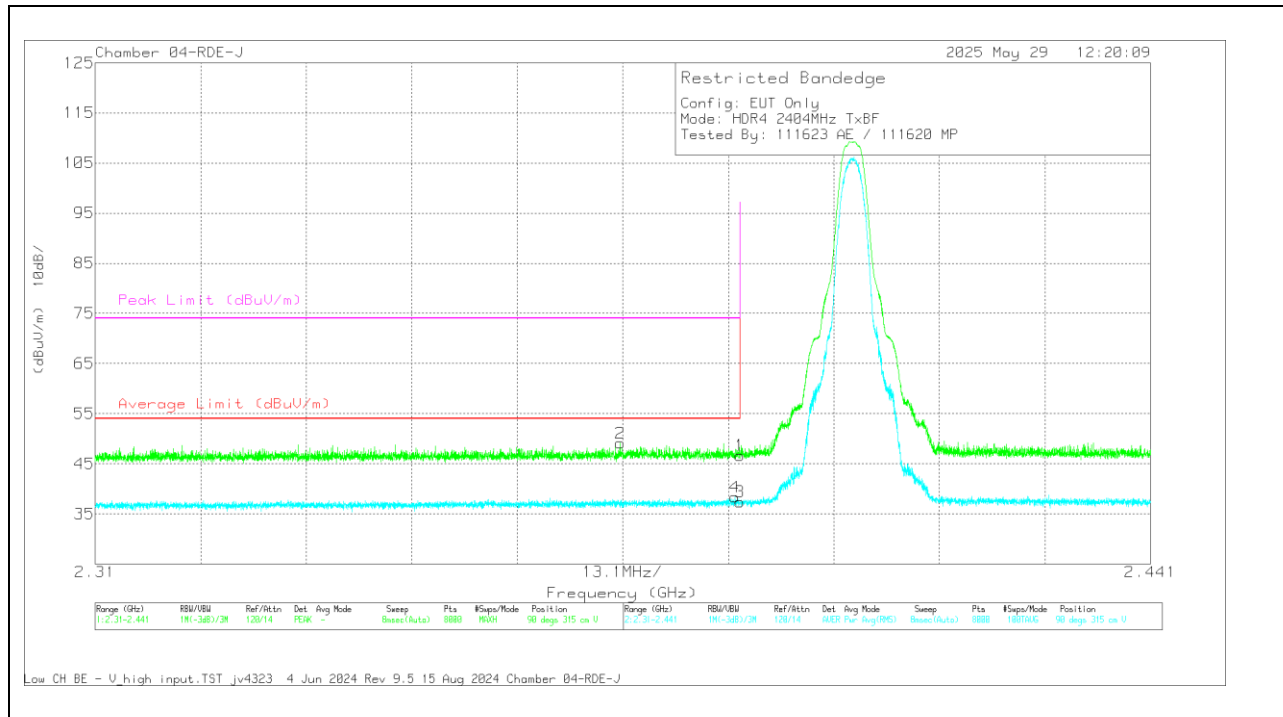
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.9	Pk	32.2	-28.2	0	47.9	-	-	74	-26.1	293	278	H
2	* 2.389707	45.06	Pk	32.2	-28.2	0	49.06	-	-	74	-24.94	293	278	H
3	* 2.39	32.43	RMS	32.2	-28.2	1.08	37.51	54	-16.49	-	-	293	278	H
4	* 2.389707	33.27	RMS	32.2	-28.2	1.08	38.35	54	-15.65	-	-	293	278	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

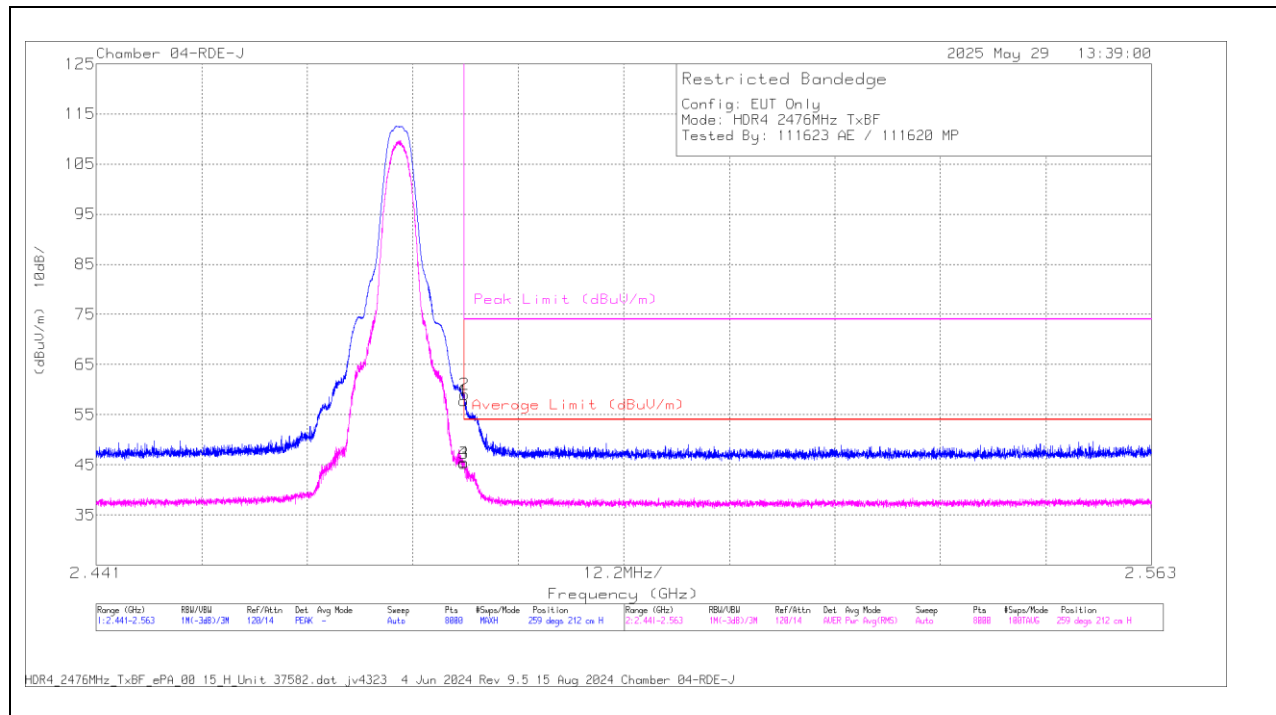


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.69	Pk	32.2	-28.2	0	46.69	-	-	74	-27.31	90	315	V
2	* 2.37518	45.09	Pk	32.2	-28.2	0	49.09	-	-	74	-24.91	90	315	V
3	* 2.39	32.26	RMS	32.2	-28.2	1.08	37.34	54	-16.66	-	-	90	315	V
4	* 2.389428	33.25	RMS	32.2	-28.2	1.08	38.33	54	-15.67	-	-	90	315	V

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

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

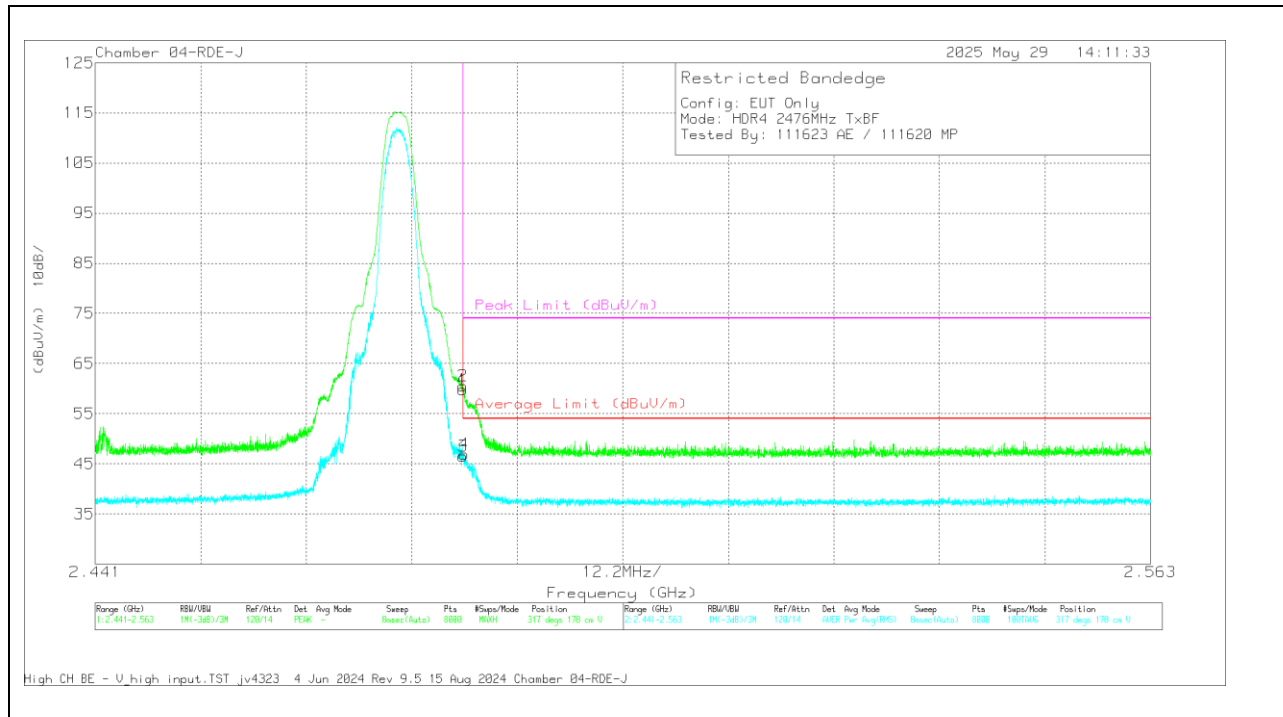
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	53.43	Pk	32.4	-28.1	0	57.73	-	-	74	-16.27	259	212	H
2	* 2.483553	54.69	Pk	32.4	-28.1	0	58.99	-	-	74	-15.01	259	212	H
3	* 2.4835	39.86	RMS	32.4	-28.1	1.08	45.24	54	-8.76	-	-	259	212	H
4	* 2.483523	40.09	RMS	32.4	-28.1	1.08	45.47	54	-8.53	-	-	259	212	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	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (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	55.51	Pk	32.4	-28.1	0	59.81	-	-	74	-14.19	317	178	V
2	* 2.483538	56.2	Pk	32.4	-28.1	0	60.5	-	-	74	-13.5	317	178	V
3	* 2.4835	41.11	RMS	32.4	-28.1	1.08	46.49	54	-7.51	-	-	317	178	V
4	* 2.483645	41.56	RMS	32.4	-28.1	1.08	46.94	54	-7.06	-	-	317	178	V

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

Pk - Peak detector

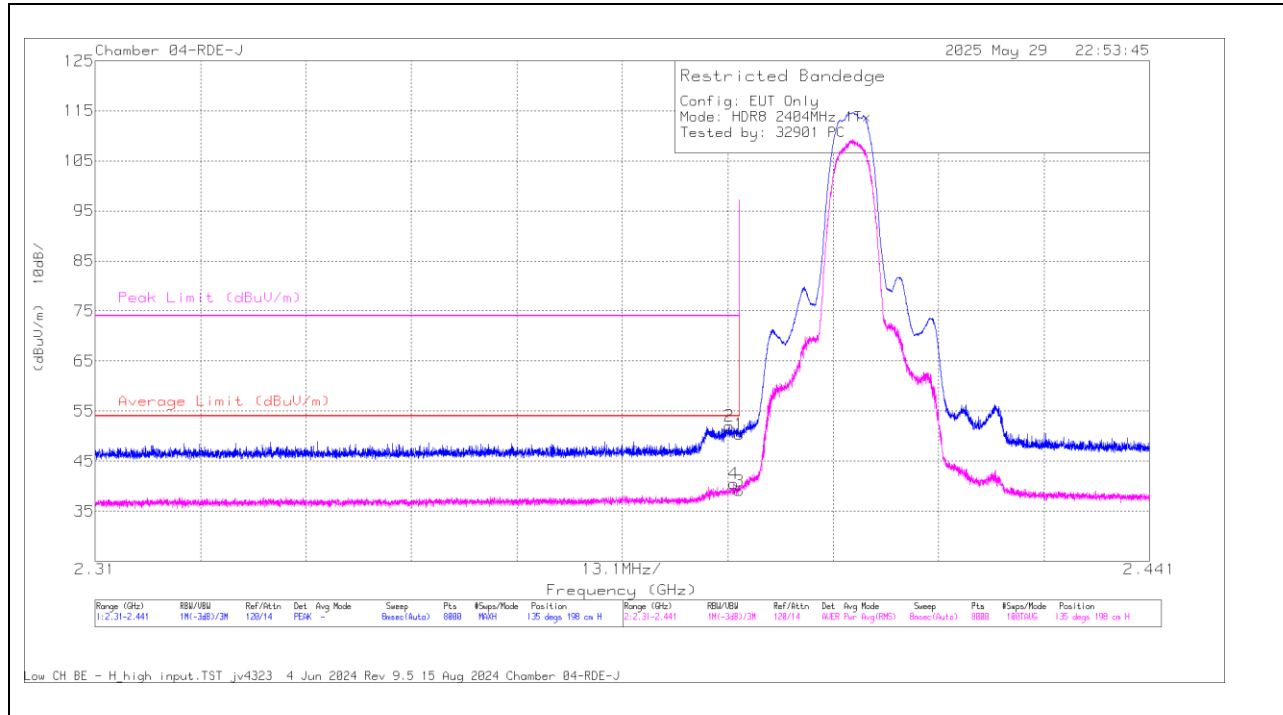
RMS - RMS detection

10.2.3. HIGH POWER HDR (HDR8)

ANT 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



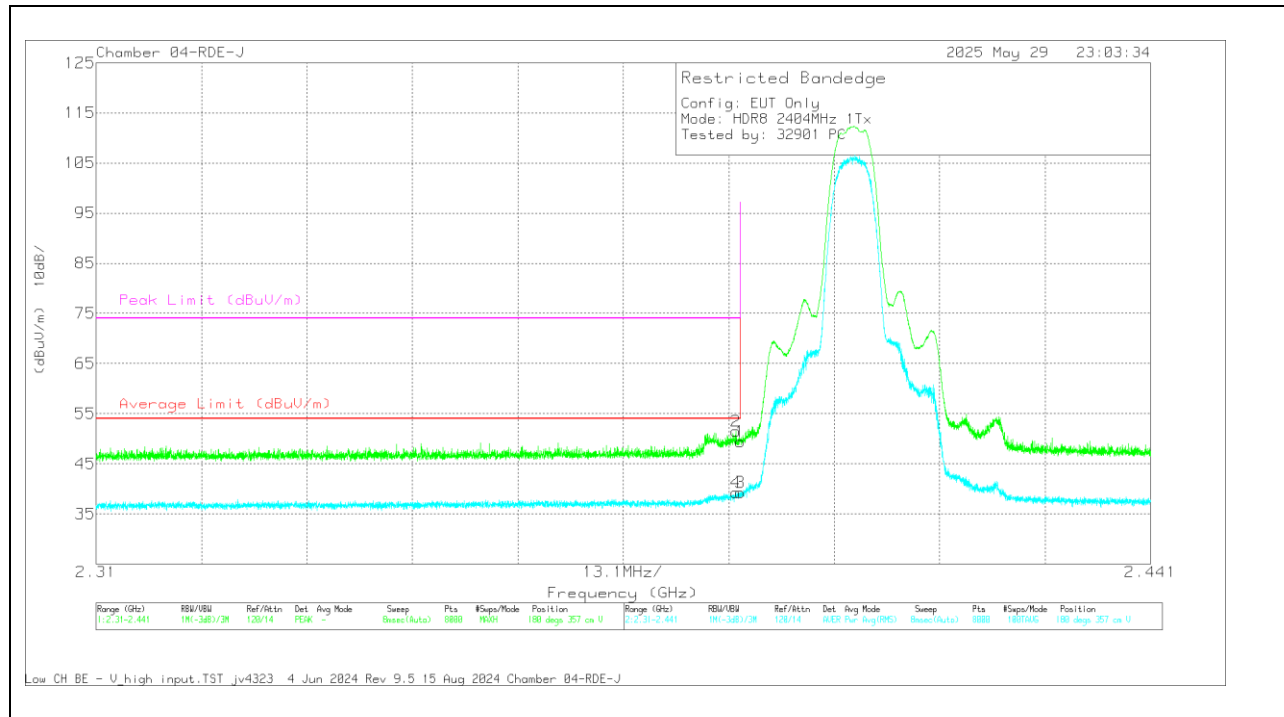
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.43	Pk	32.2	-28.2	0	50.43	-	-	74	-23.57	135	198	H
2	* 2.38879	48.04	Pk	32.2	-28.2	0	52.04	-	-	74	-21.96	135	198	H
3	* 2.39	34	RMS	32.2	-28.2	1.07	39.07	54	-14.93	-	-	135	198	H
4	* 2.389314	35.42	RMS	32.2	-28.2	1.07	40.49	54	-13.51	-	-	135	198	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

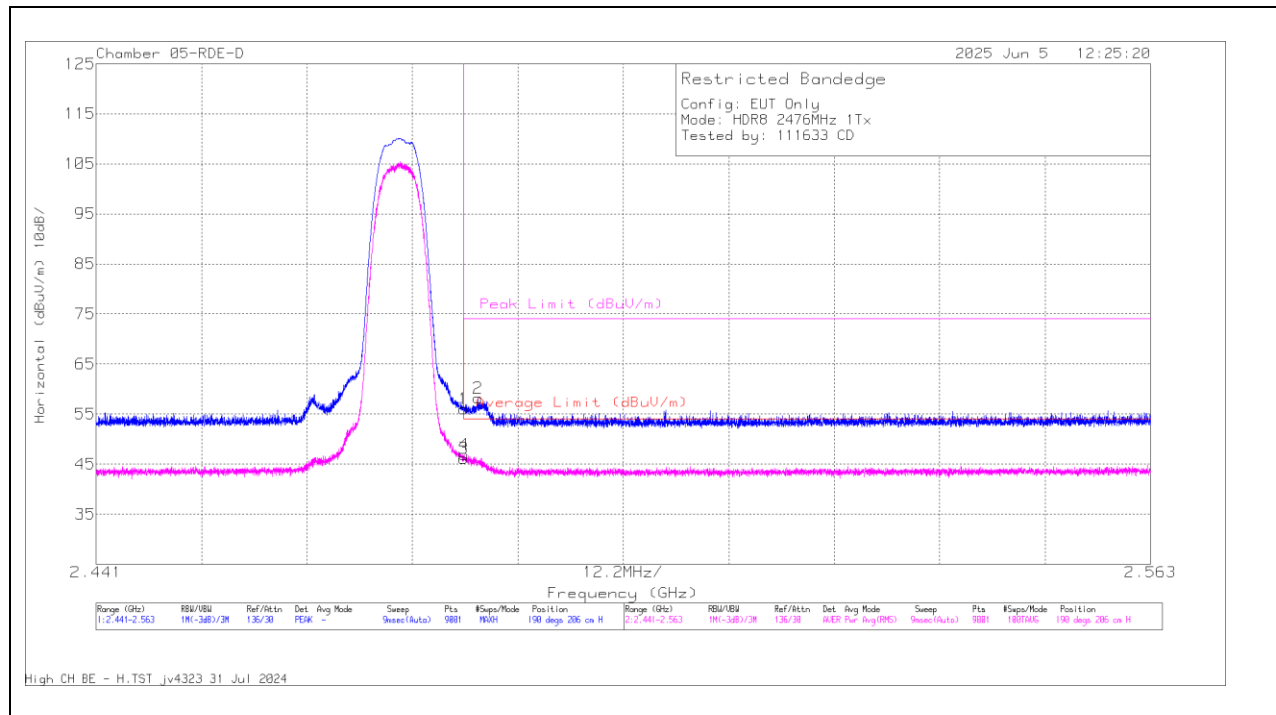


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.37	Pk	32.2	-28.2	0	49.37	-	-	74	-24.63	180	357	V
2	* 2.389461	47.47	Pk	32.2	-28.2	0	51.47	-	-	74	-22.53	180	357	V
3	* 2.39	34.2	RMS	32.2	-28.2	1.07	39.27	54	-14.73	-	-	180	357	V
4	* 2.389527	34.14	RMS	32.2	-28.2	1.07	39.21	54	-14.79	-	-	180	357	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	81887 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	64.33	Pk	32.4	0	-40.71	56.02	-	-	74	-17.98	190	206	H
2	*2.485193	66.49	Pk	32.4	0	-40.67	58.22	-	-	74	-15.78	190	206	H
3	*2.4835	53.4	RMS	32.4	1.07	-40.71	46.16	54	-7.84	-	-	190	206	H
4	*2.483566	54.09	RMS	32.4	1.07	-40.71	46.85	54	-7.15	-	-	190	206	H

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

Pk - Peak detector

RMS - RMS detection