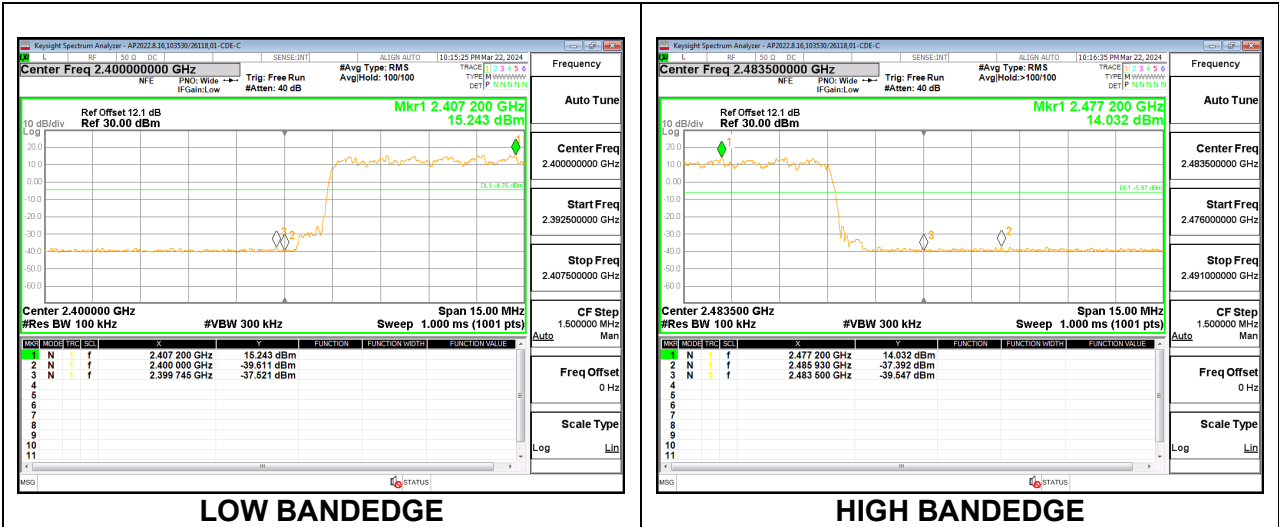
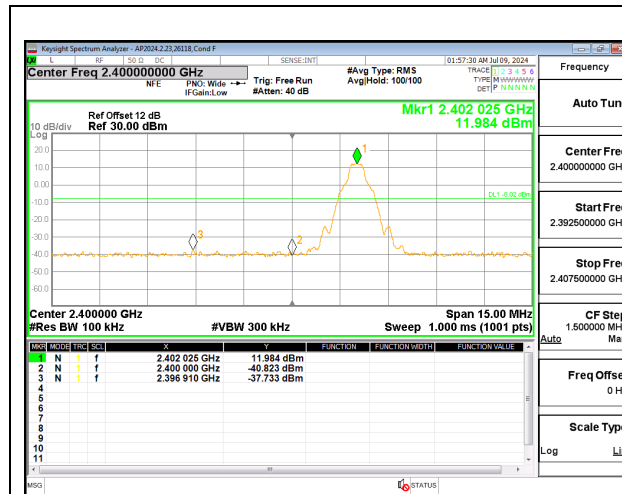
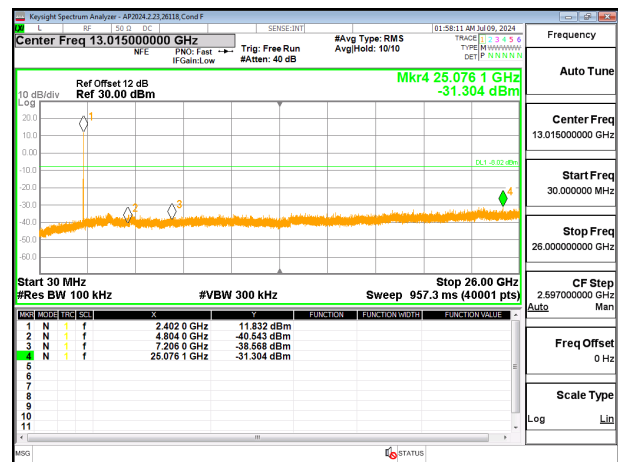
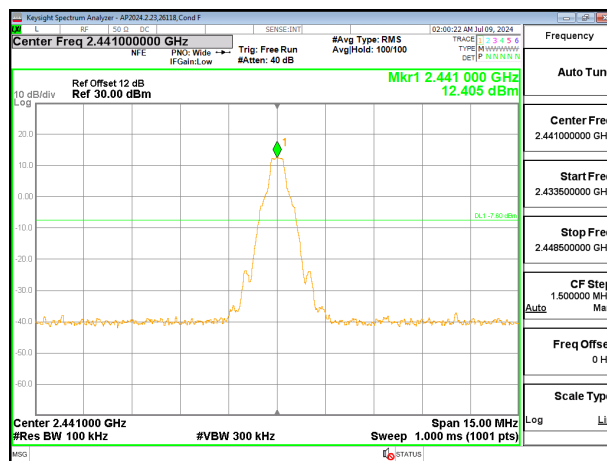
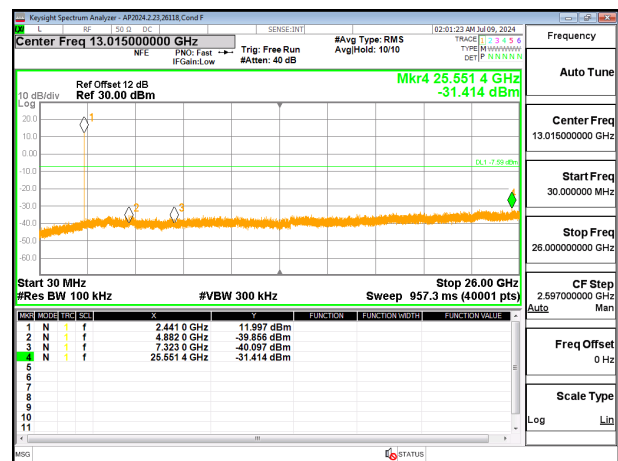
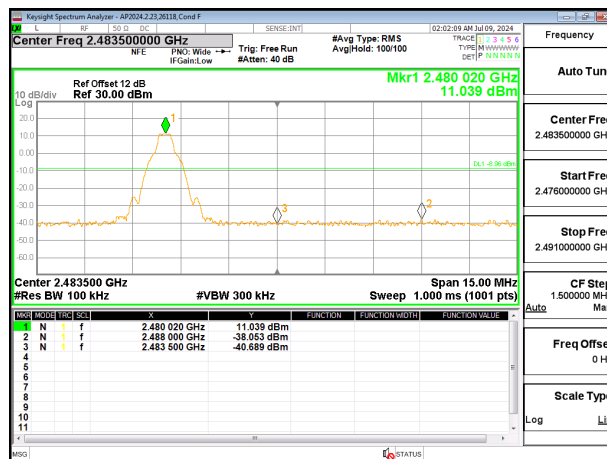
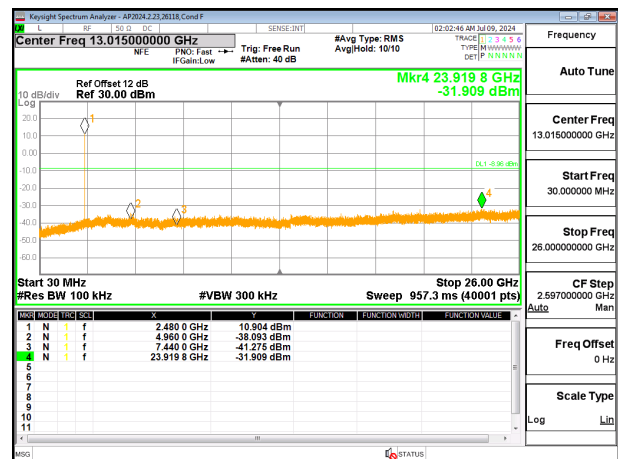


ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

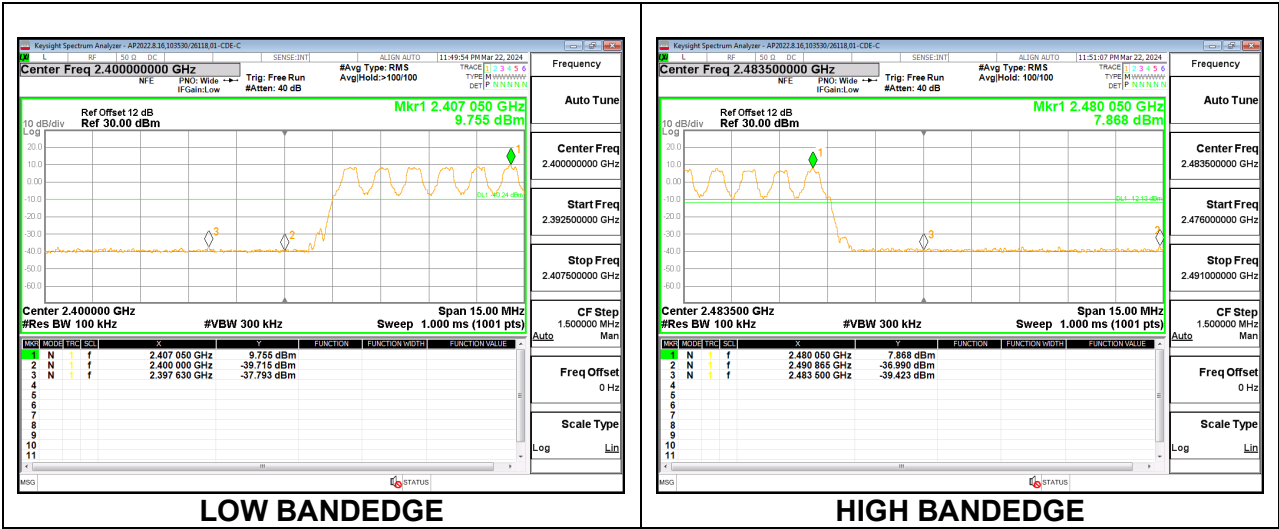


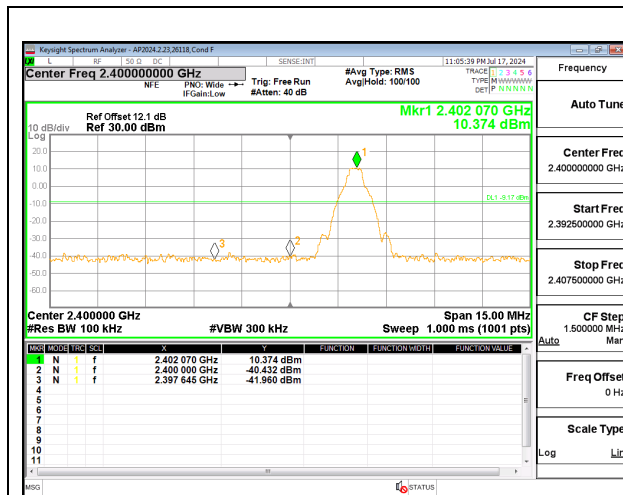
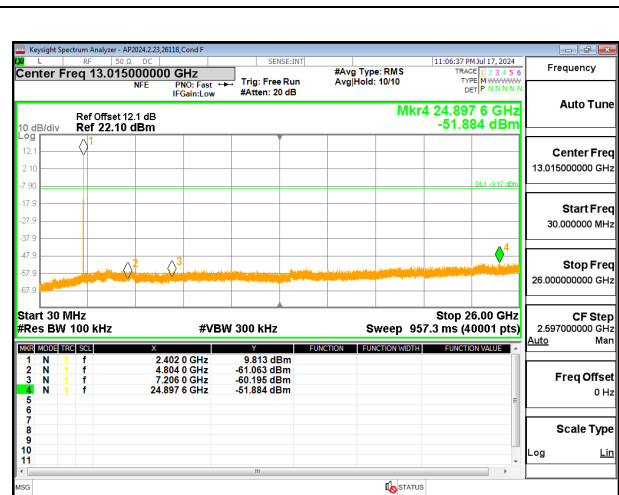
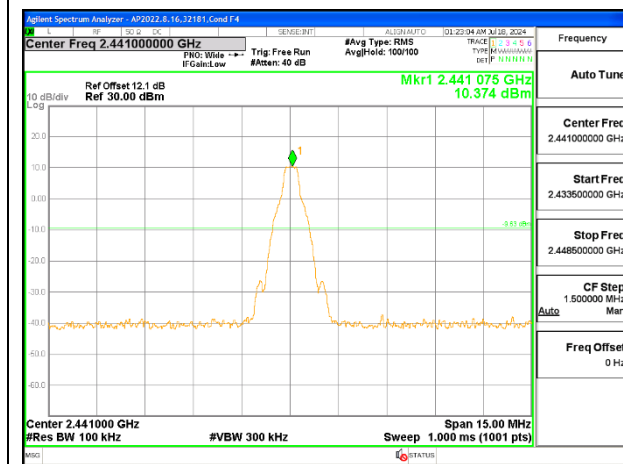
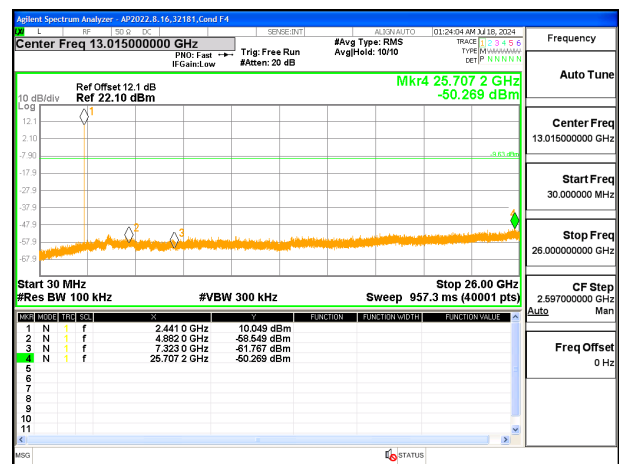
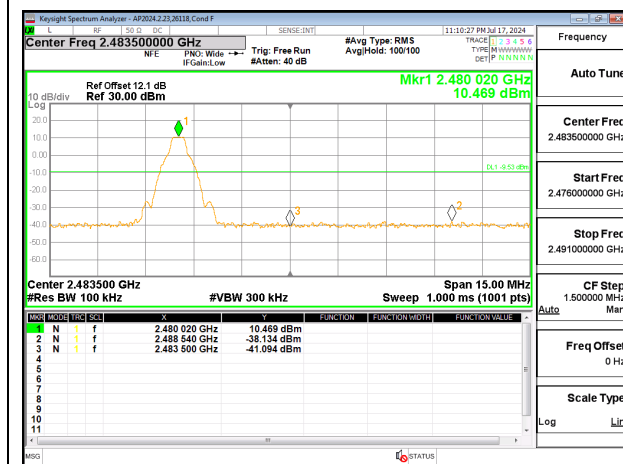
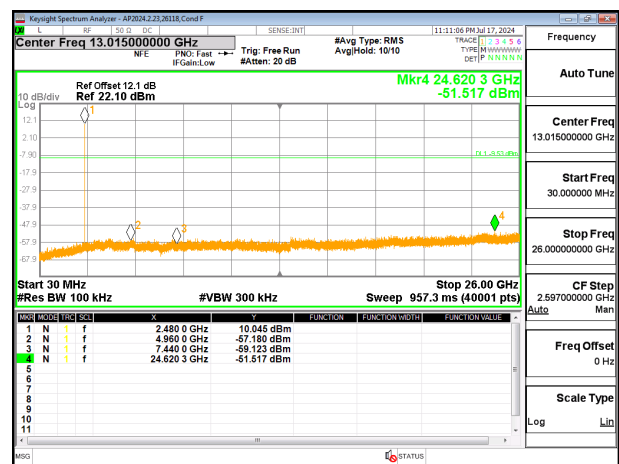
9.9.5. LOW POWER BASIC DATA RATE GFSK MODULATION

ANT 4 SPURIOUS EMISSIONS, NON-HOPPING

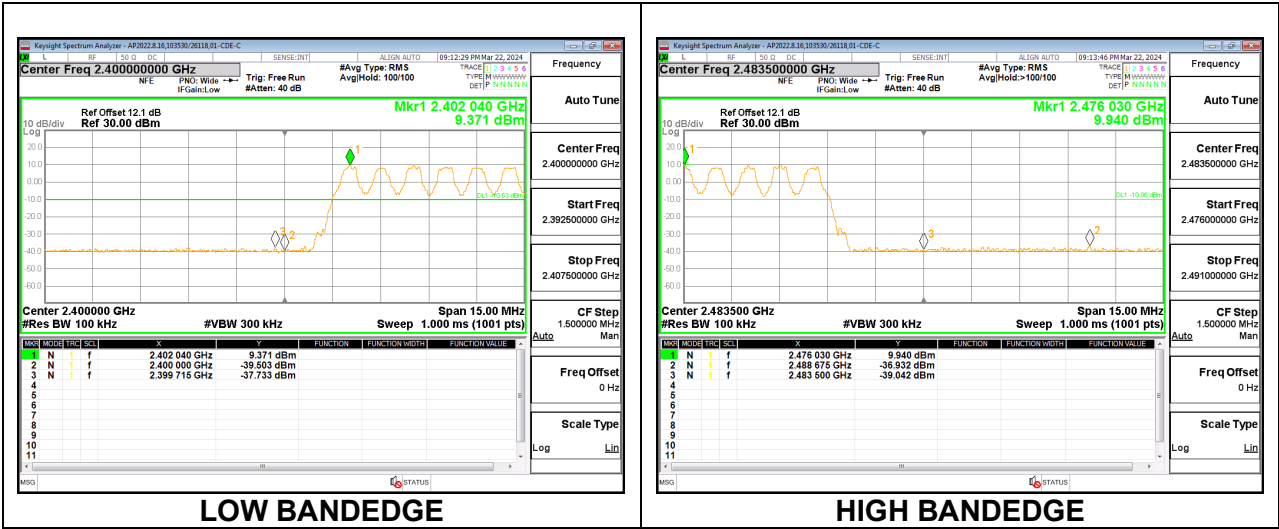
**LOW CHANNEL BANDEDGE****LOW CHANNEL OUT-OF-BAND****MID CHANNEL REFERENCE LEVEL****MID CHANNEL OUT-OF-BAND****HIGH CHANNEL BANDEDGE****HIGH CHANNEL OUT-OF-BAND**

ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



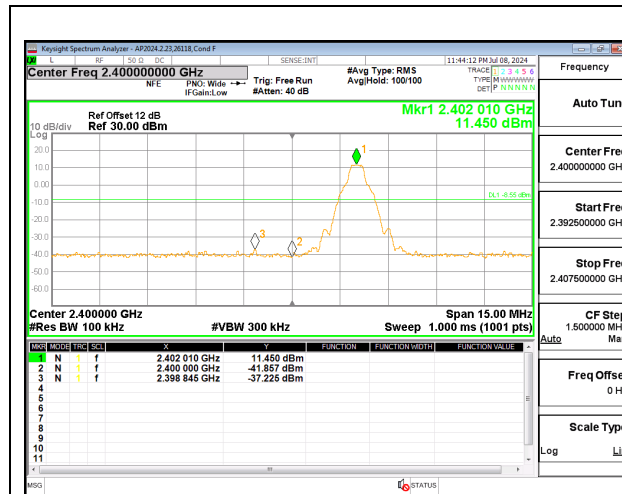
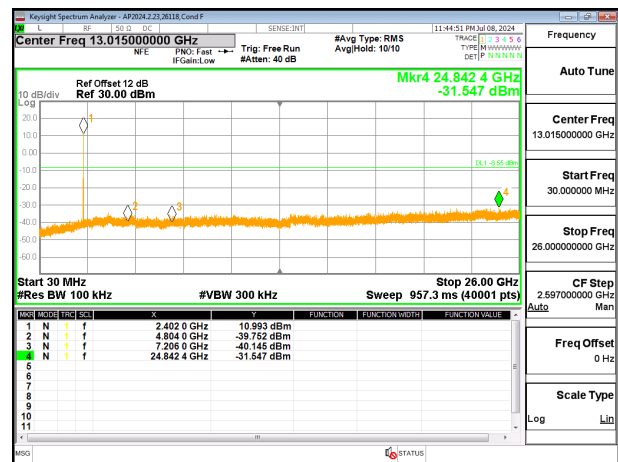
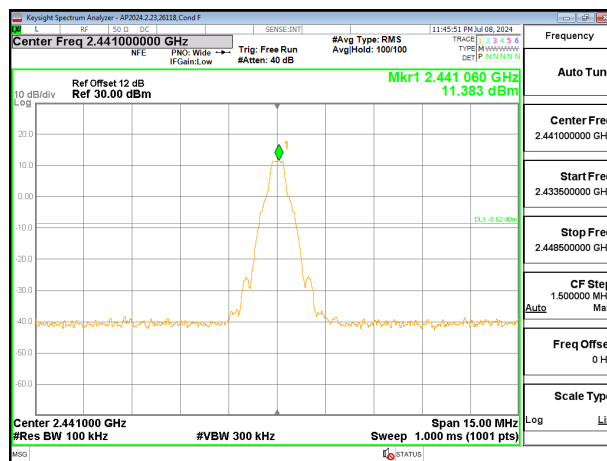
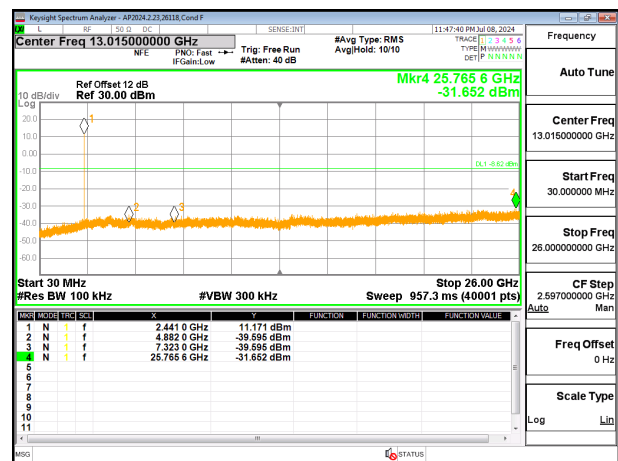
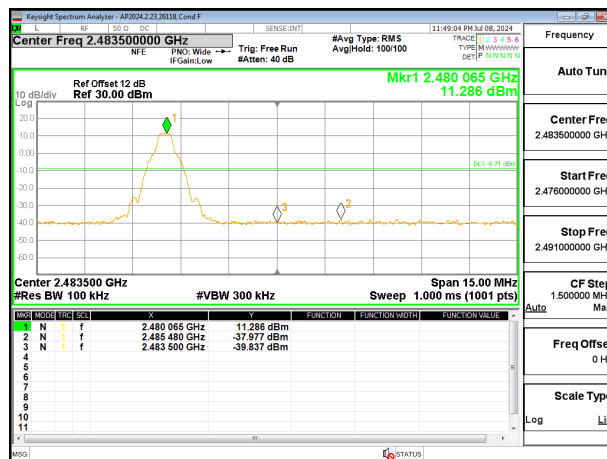
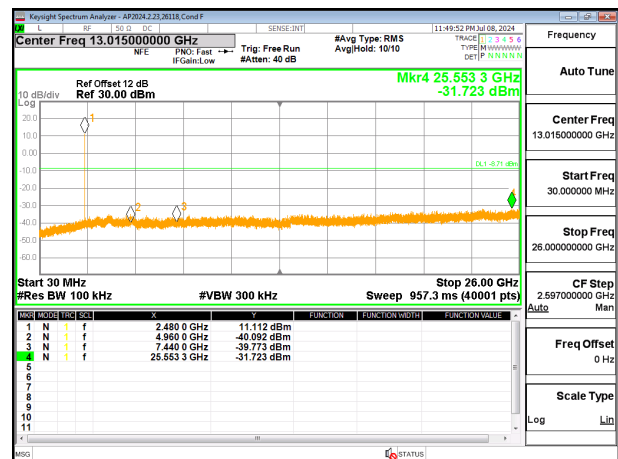
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****LOW CHANNEL OUT-OF-BAND****MID CHANNEL REFERENCE LEVEL****MID CHANNEL OUT-OF-BAND****HIGH CHANNEL BANDEDGE****HIGH CHANNEL OUT-OF-BAND**

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

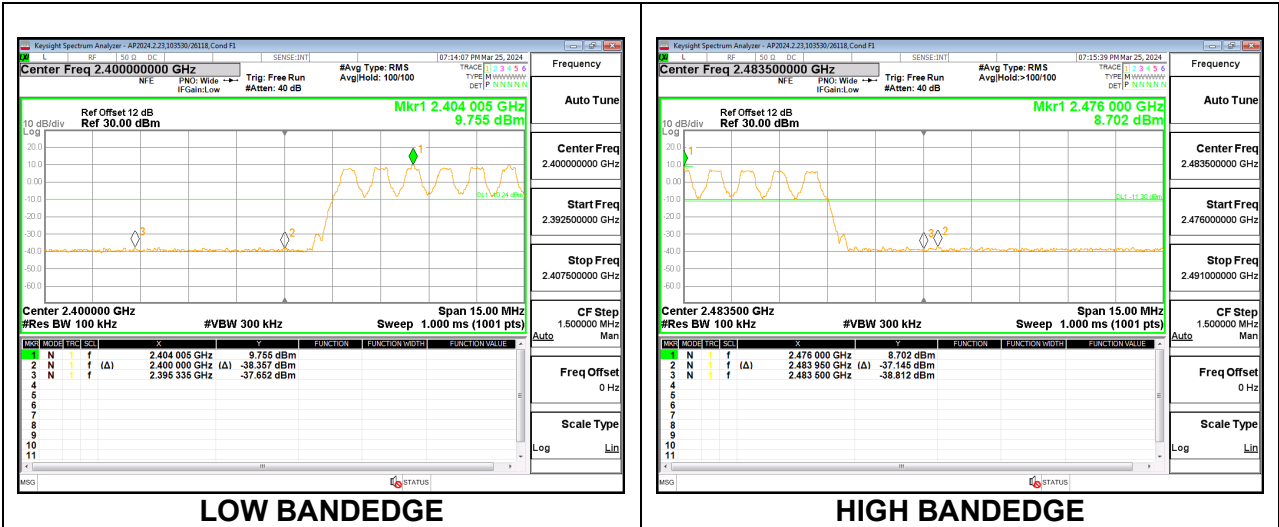


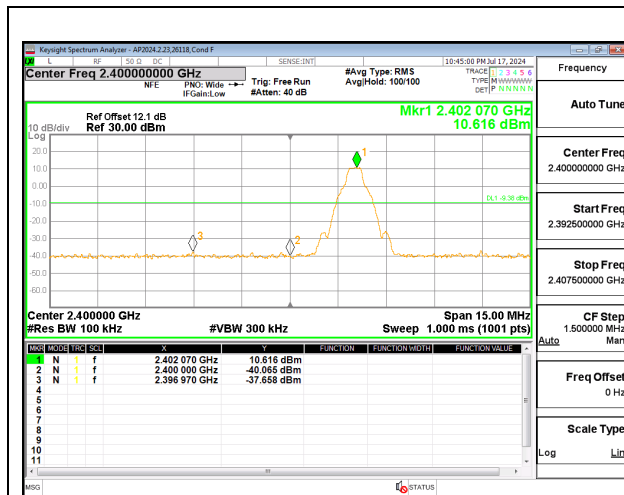
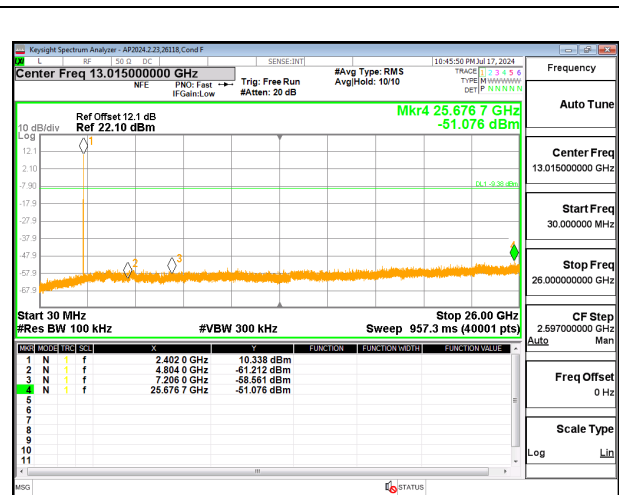
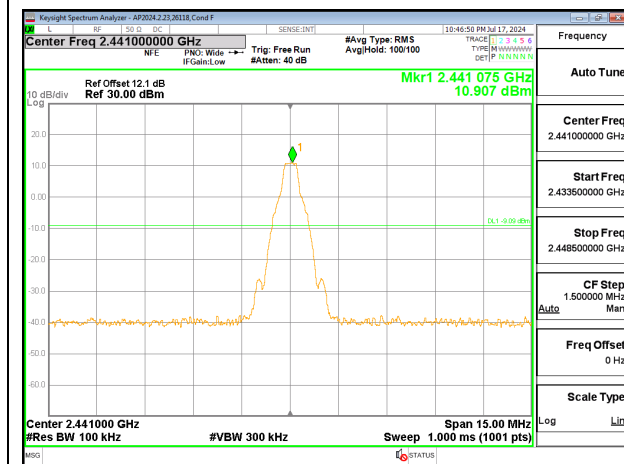
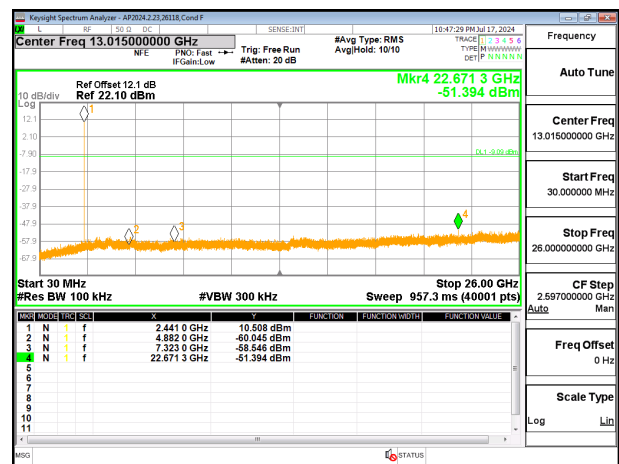
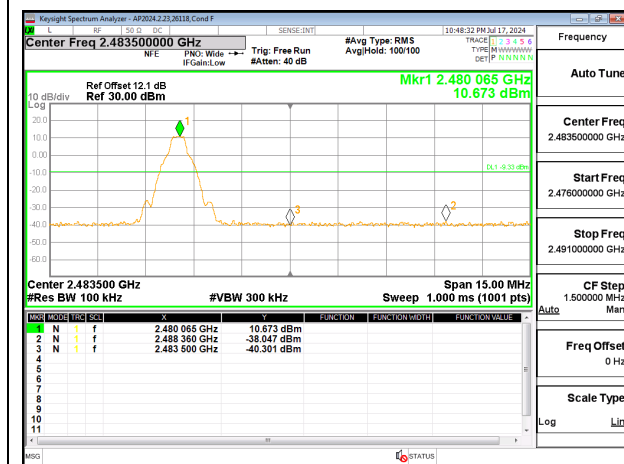
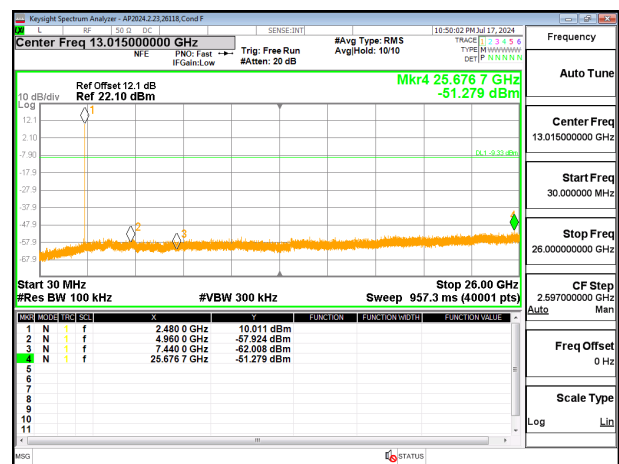
9.9.6. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION

ANT 4 SPURIOUS EMISSIONS, NON-HOPPING

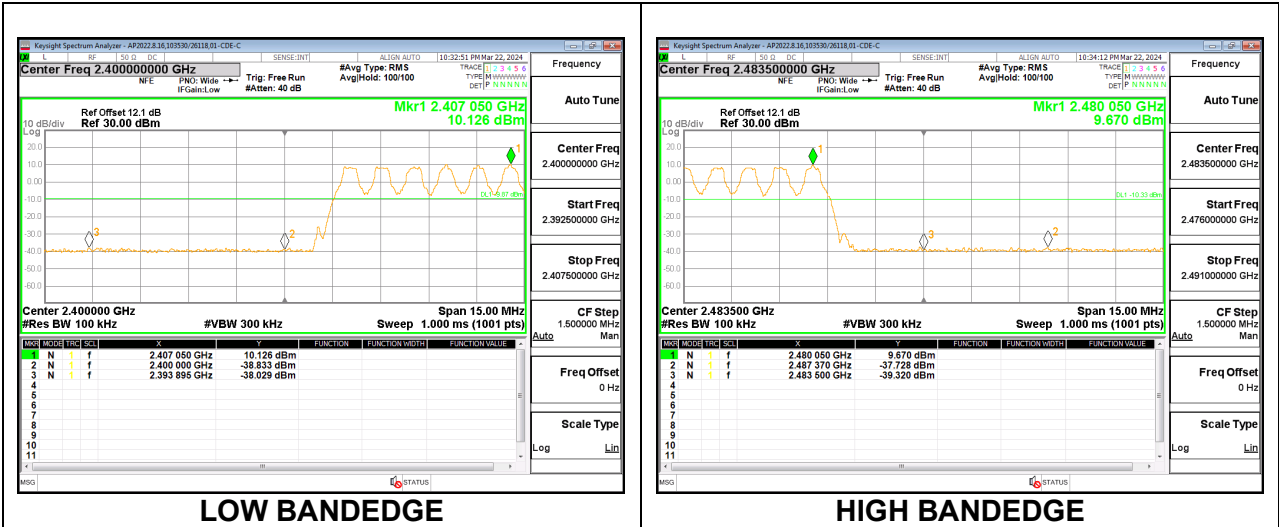
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ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



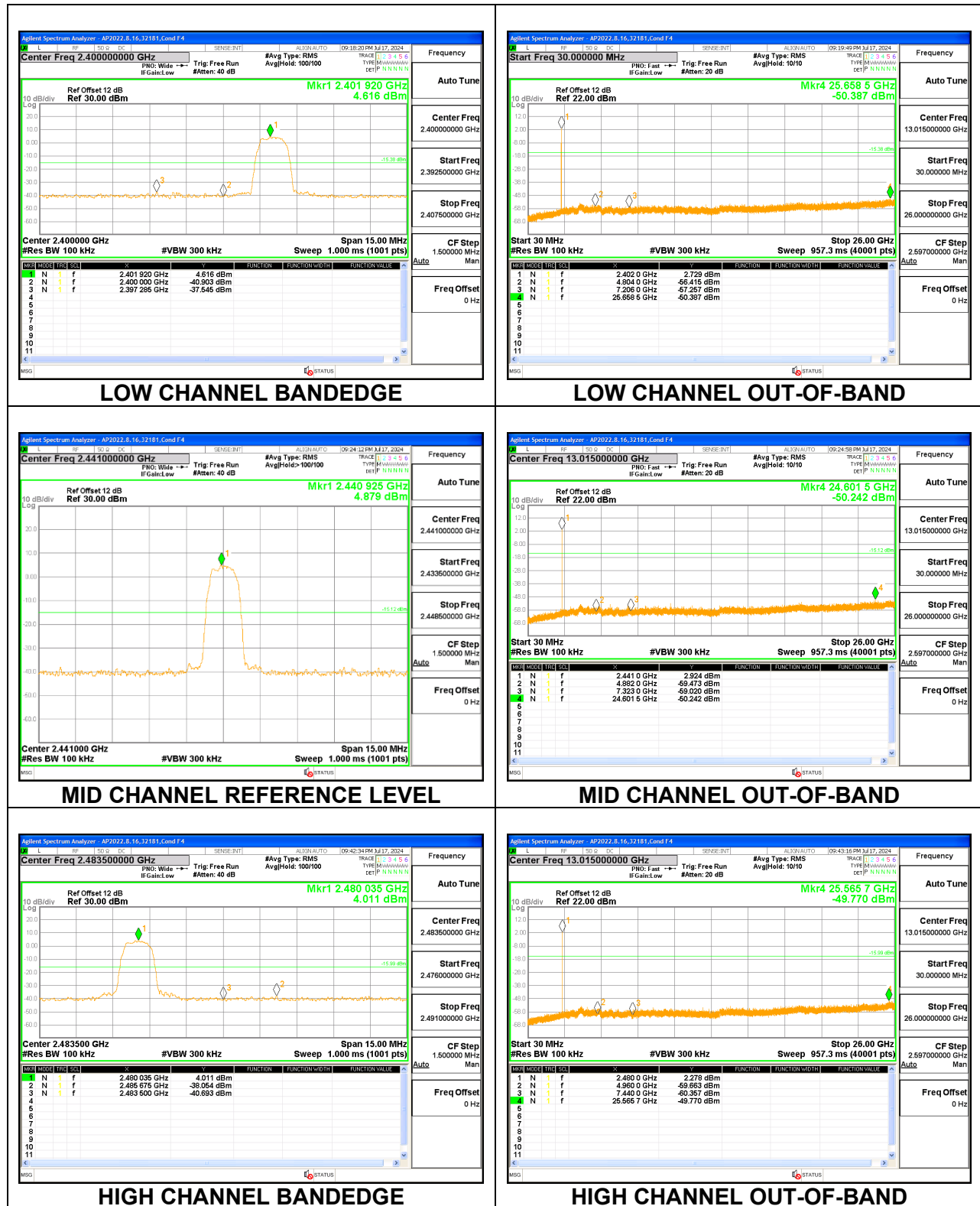
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****LOW CHANNEL OUT-OF-BAND****MID CHANNEL REFERENCE LEVEL****MID CHANNEL OUT-OF-BAND****HIGH CHANNEL BANDEDGE****HIGH CHANNEL OUT-OF-BAND**

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

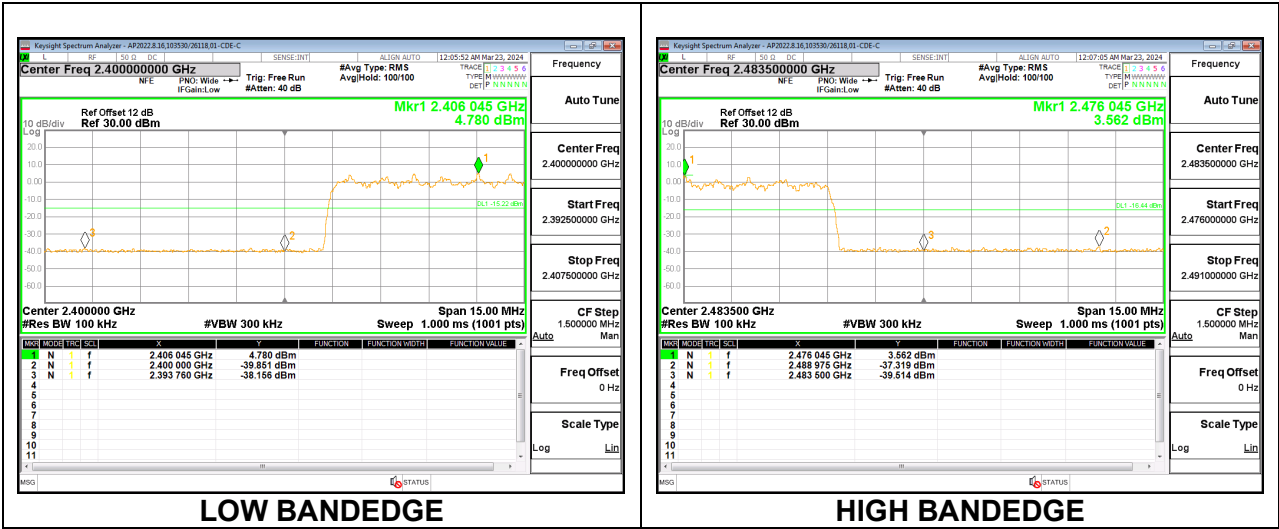


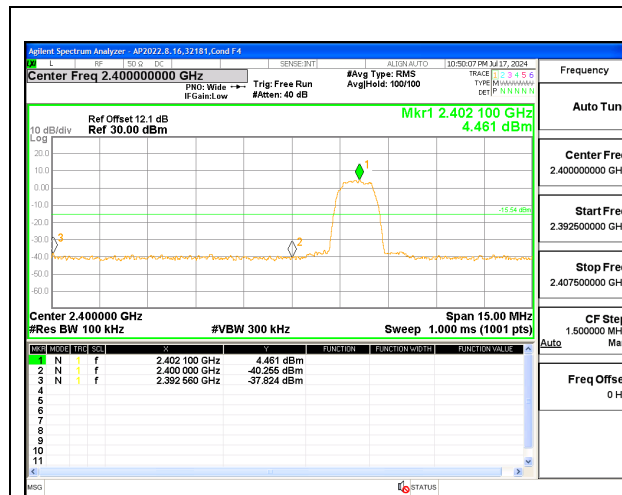
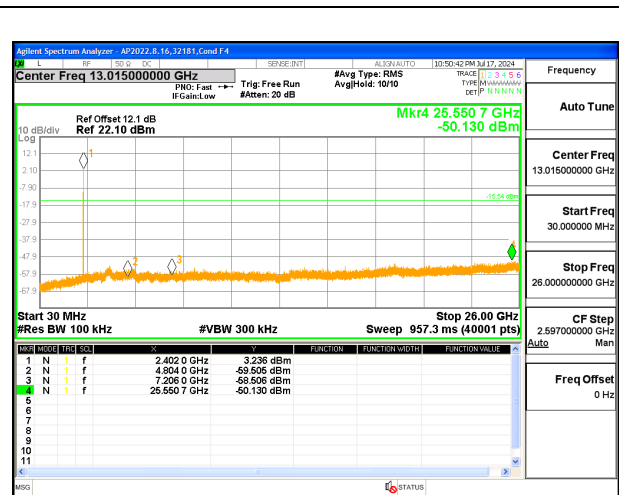
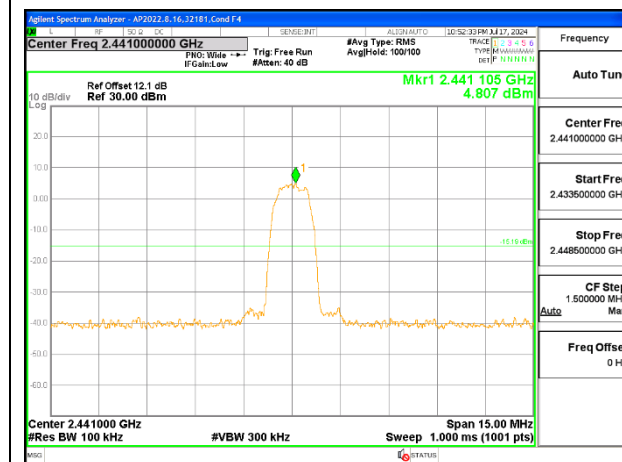
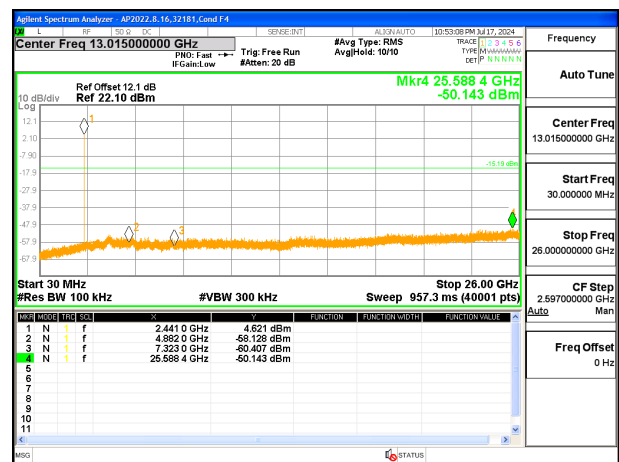
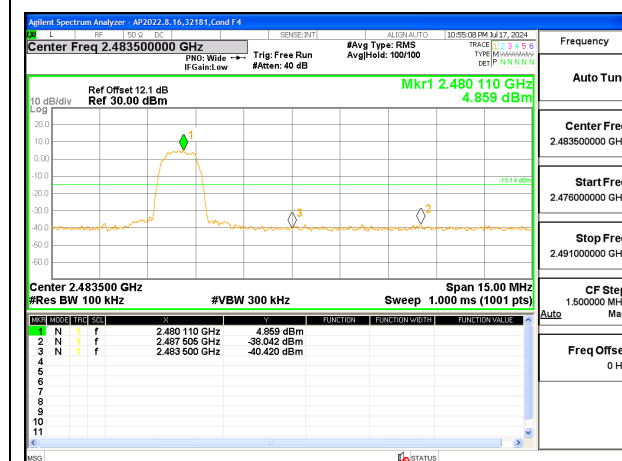
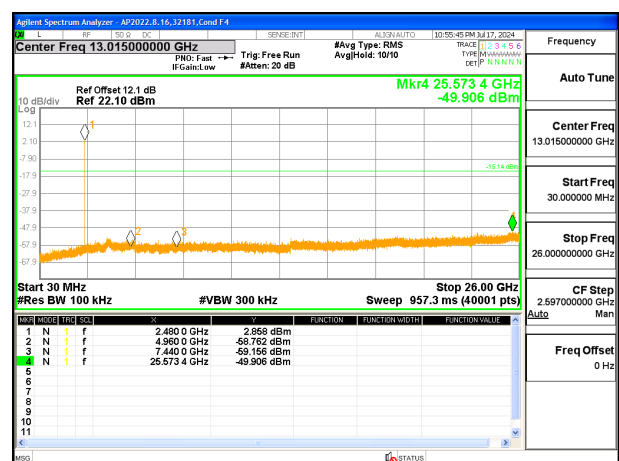
9.9.7. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4 SPURIOUS EMISSIONS, NON-HOPPING

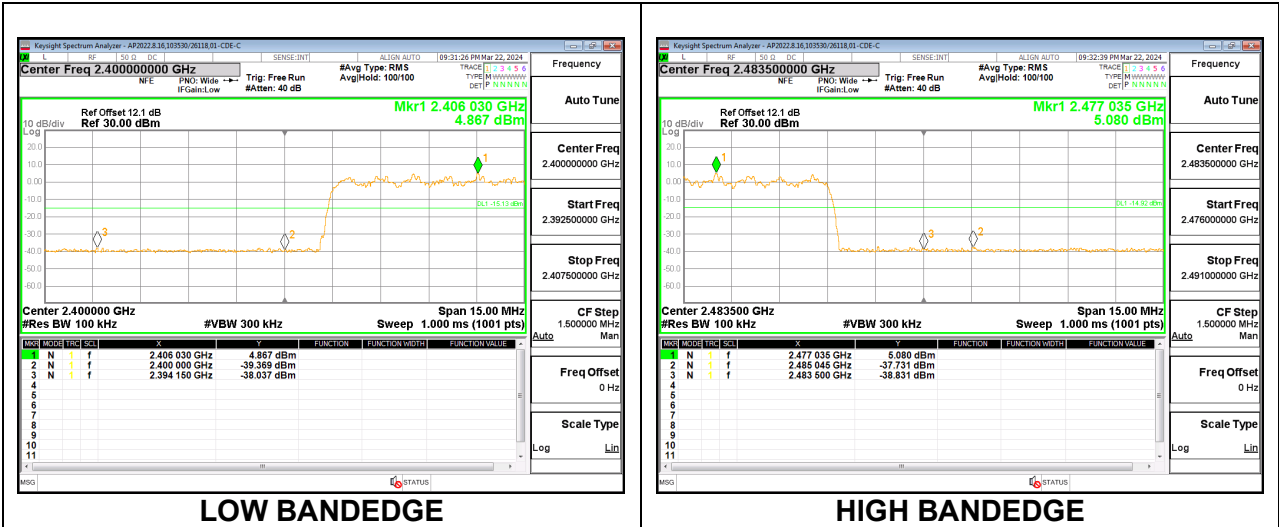


ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



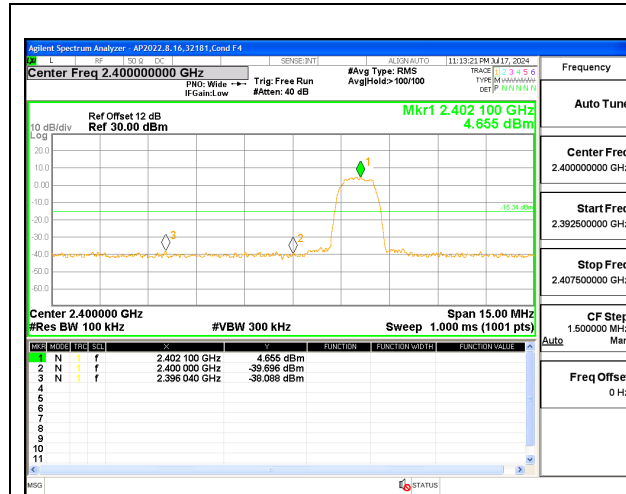
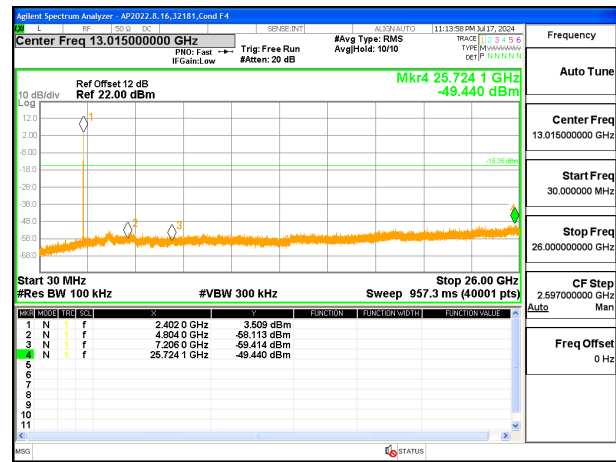
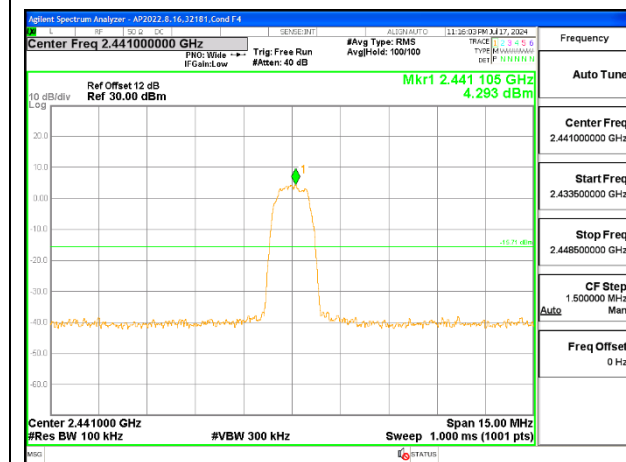
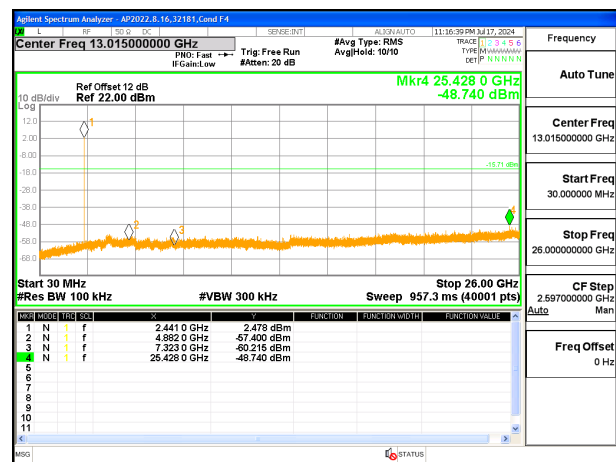
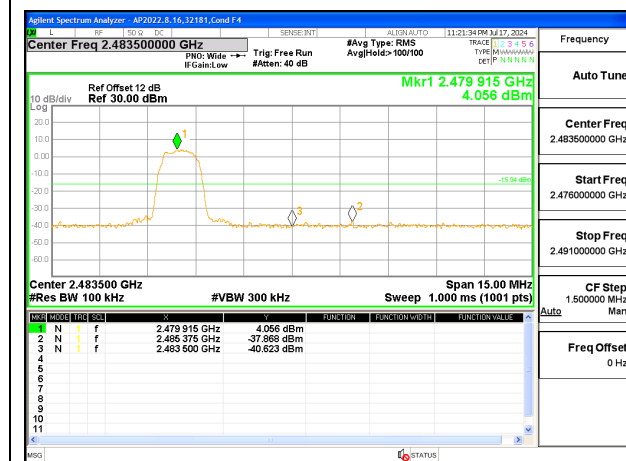
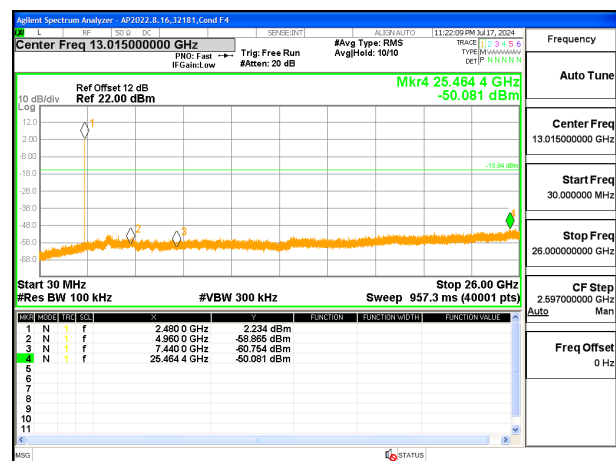
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****LOW CHANNEL OUT-OF-BAND****MID CHANNEL REFERENCE LEVEL****MID CHANNEL OUT-OF-BAND****HIGH CHANNEL BANDEDGE****HIGH CHANNEL OUT-OF-BAND**

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

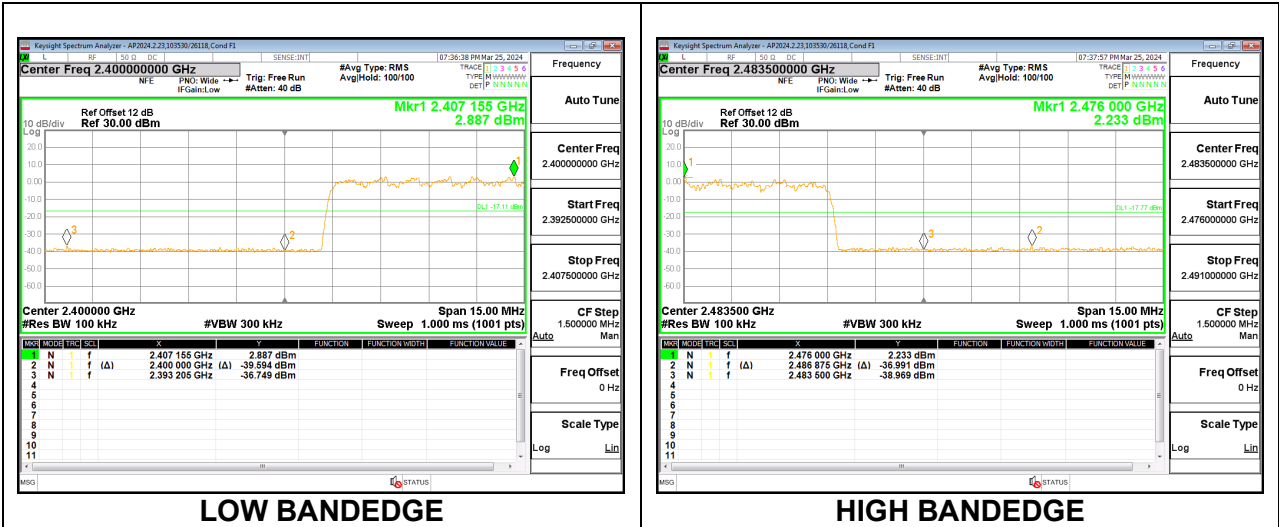


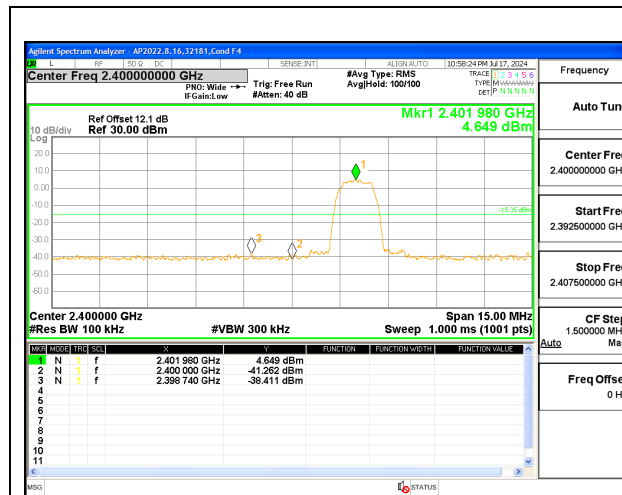
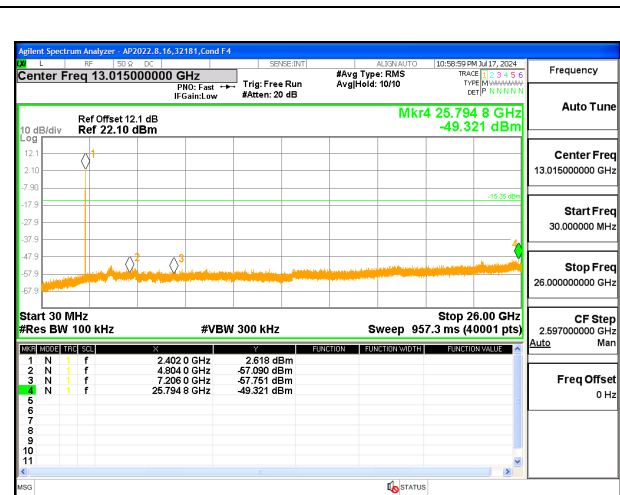
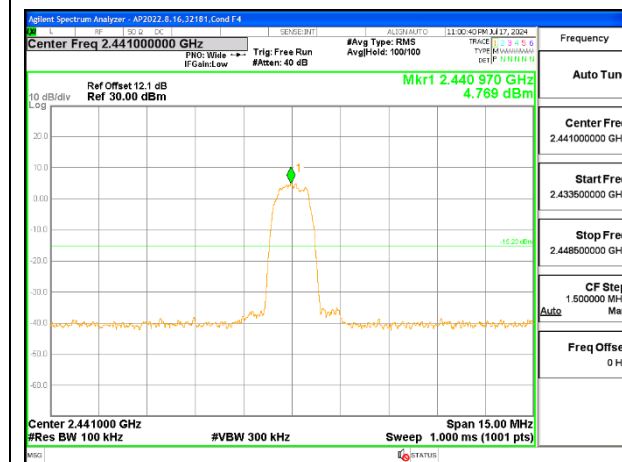
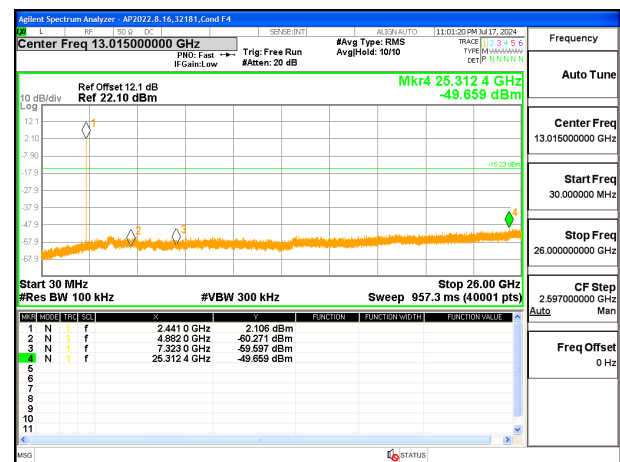
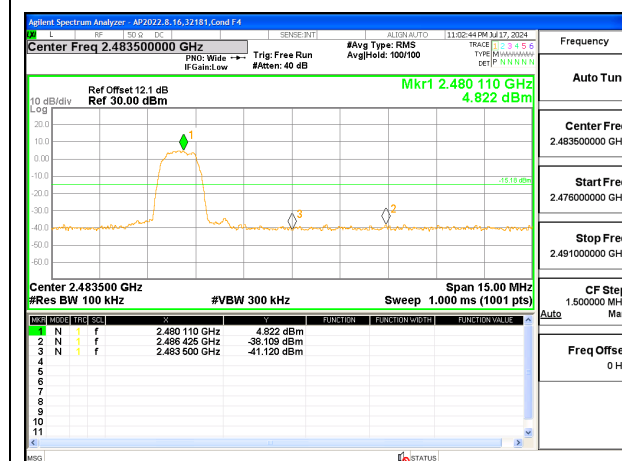
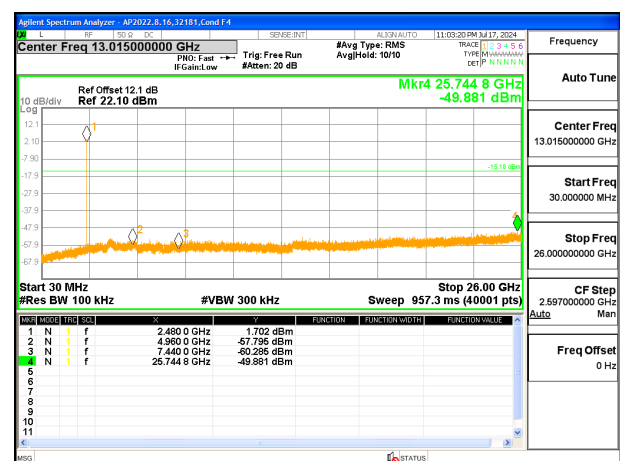
9.9.8. LOW POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

ANT 4 SPURIOUS EMISSIONS, NON-HOPPING

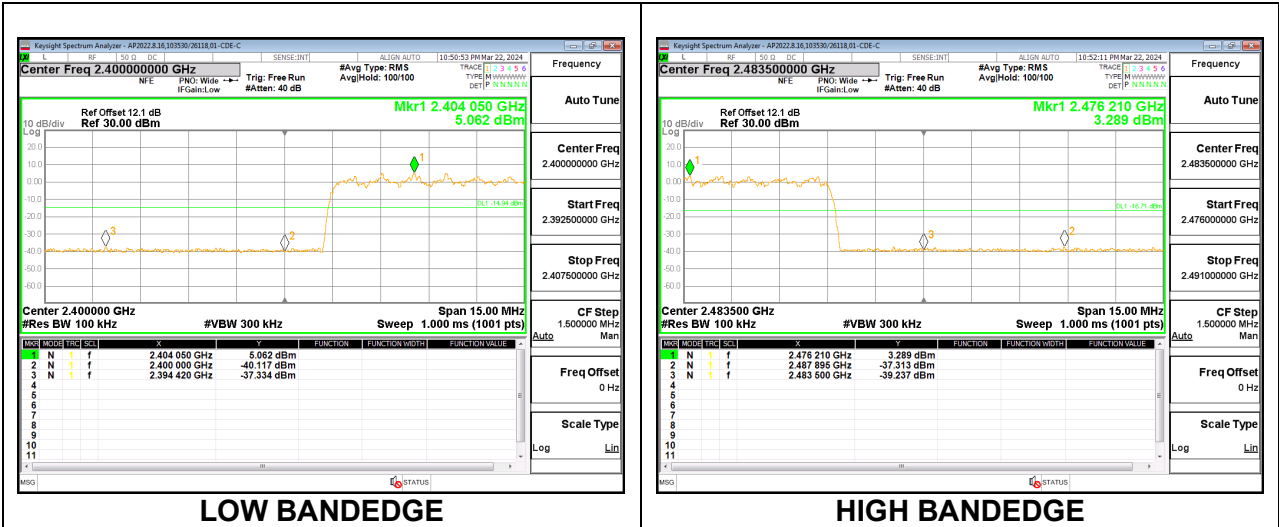
**LOW CHANNEL BANDEDGE****LOW CHANNEL OUT-OF-BAND****MID CHANNEL REFERENCE LEVEL****MID CHANNEL OUT-OF-BAND****HIGH CHANNEL BANDEDGE****HIGH CHANNEL OUT-OF-BAND**

ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



ANT 3 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****LOW CHANNEL OUT-OF-BAND****MID CHANNEL REFERENCE LEVEL****MID CHANNEL OUT-OF-BAND****HIGH CHANNEL BANDEDGE****HIGH CHANNEL OUT-OF-BAND**

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



10. RADIATED TEST RESULTS

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 scans above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T (10 Hz) video bandwidth with peak detector 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 47 CFR, 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.

Based 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

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

KDB 558074 D01 15.247 Meas Guidance v05r02

Use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period.

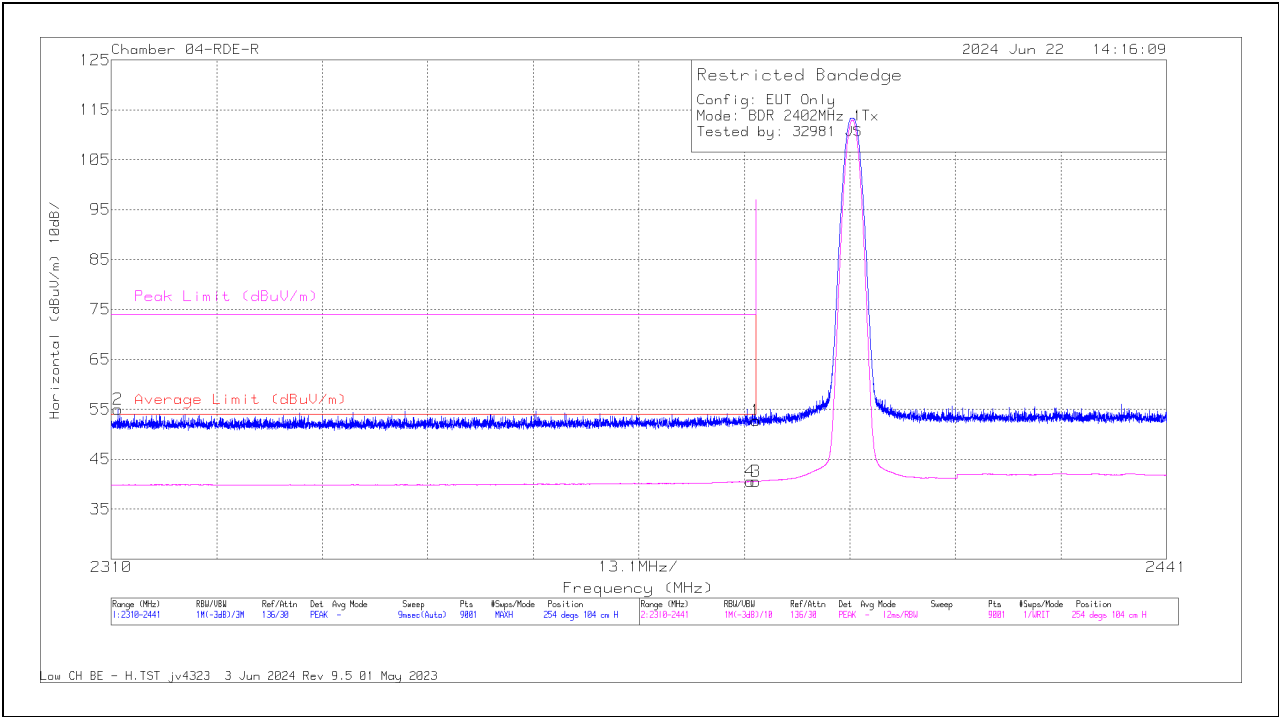
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

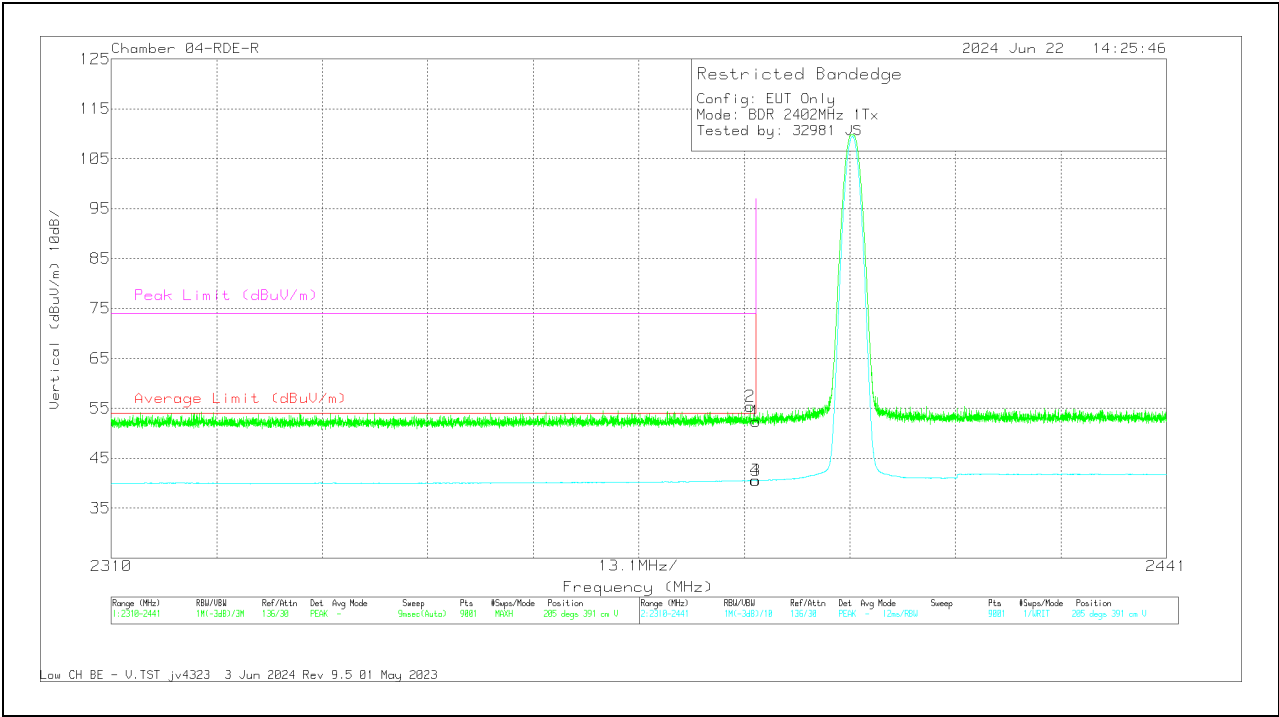
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	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	* 2310.859	63.97	Pk	31.7	-40.61	55.06	-	-	74	-18.94	254	104	H
4	* 2389.345	49	VA1T	32	-40.43	40.57	54	-13.43	-	-	254	104	H
1	* 2390	61.17	Pk	32	-40.44	52.73	-	-	74	-21.27	254	104	H
3	* 2390	48.99	VA1T	32	-40.44	40.55	54	-13.45	-	-	254	104	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

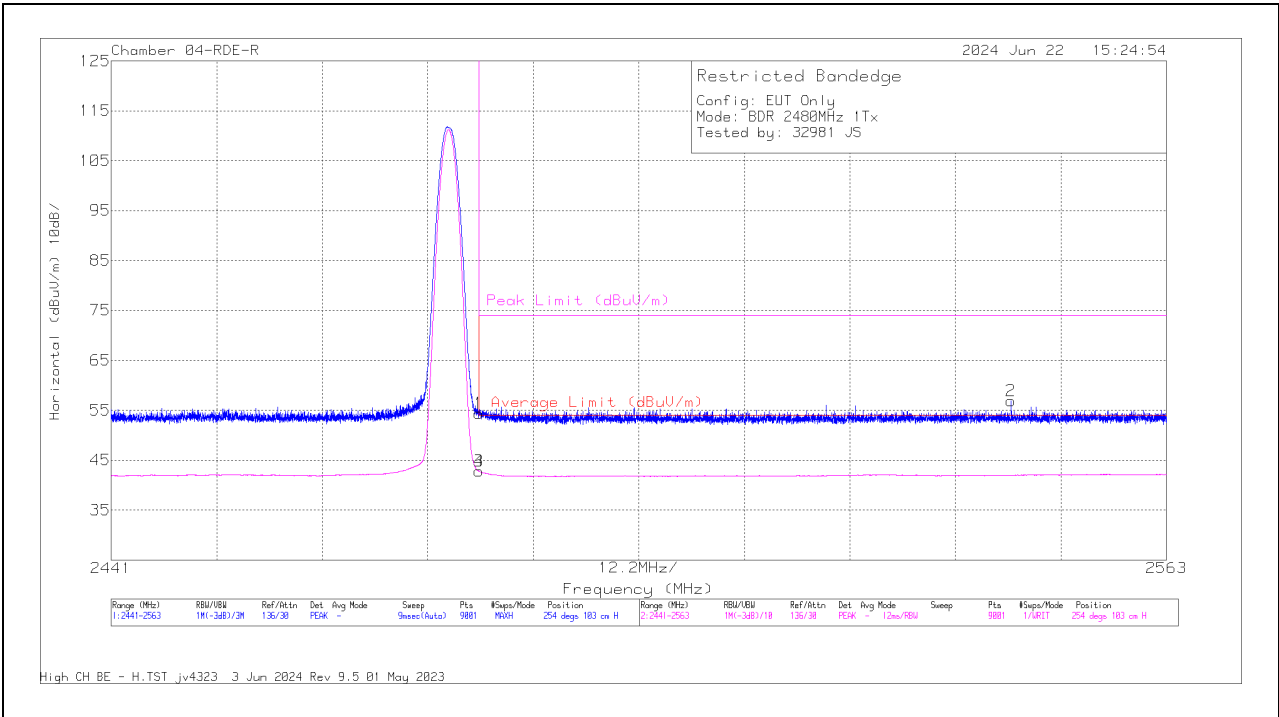


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2389.316	63.81	Pk	32	-40.43	55.38	-	-	74	-18.62	205	391	V
4	* 2389.942	48.99	VA1T	32	-40.44	40.55	54	-13.45	-	-	205	391	V
1	* 2390	60.87	Pk	32	-40.44	52.43	-	-	74	-21.57	205	391	V
3	* 2390	48.96	VA1T	32	-40.44	40.52	54	-13.48	-	-	205	391	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



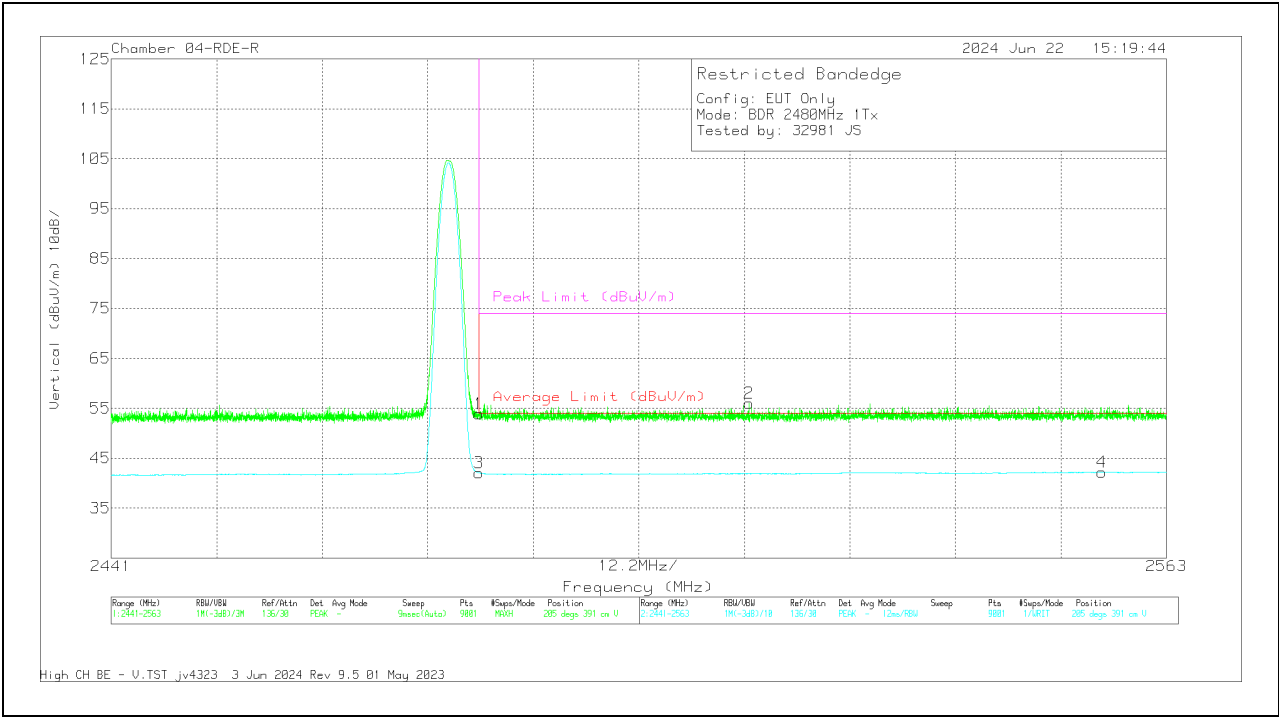
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	62.22	Pk	32.3	-40.12	54.4	-	-	74	-19.6	254	103	H
3	* 2483.5	50.6	VA1T	32.3	-40.12	42.78	54	-11.22	-	-	254	103	H
4	* 2483.512	50.59	VA1T	32.3	-40.12	42.77	54	-11.23	-	-	254	103	H
2	* 2545.056	64.41	Pk	32.4	-39.93	56.88	-	-	74	-17.12	254	103	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	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	61.7	Pk	32.3	-40.12	53.88	-	-	74	-20.12	205	391	V
3	* 2483.5	49.9	VA1T	32.3	-40.12	42.08	54	-11.92	-	-	205	391	V
2	* 2514.718	63.74	Pk	32.3	-39.97	56.07	-	-	74	-17.93	205	391	V
4	* 2555.535	49.74	VA1T	32.3	-39.83	42.21	54	-11.79	-	-	205	391	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

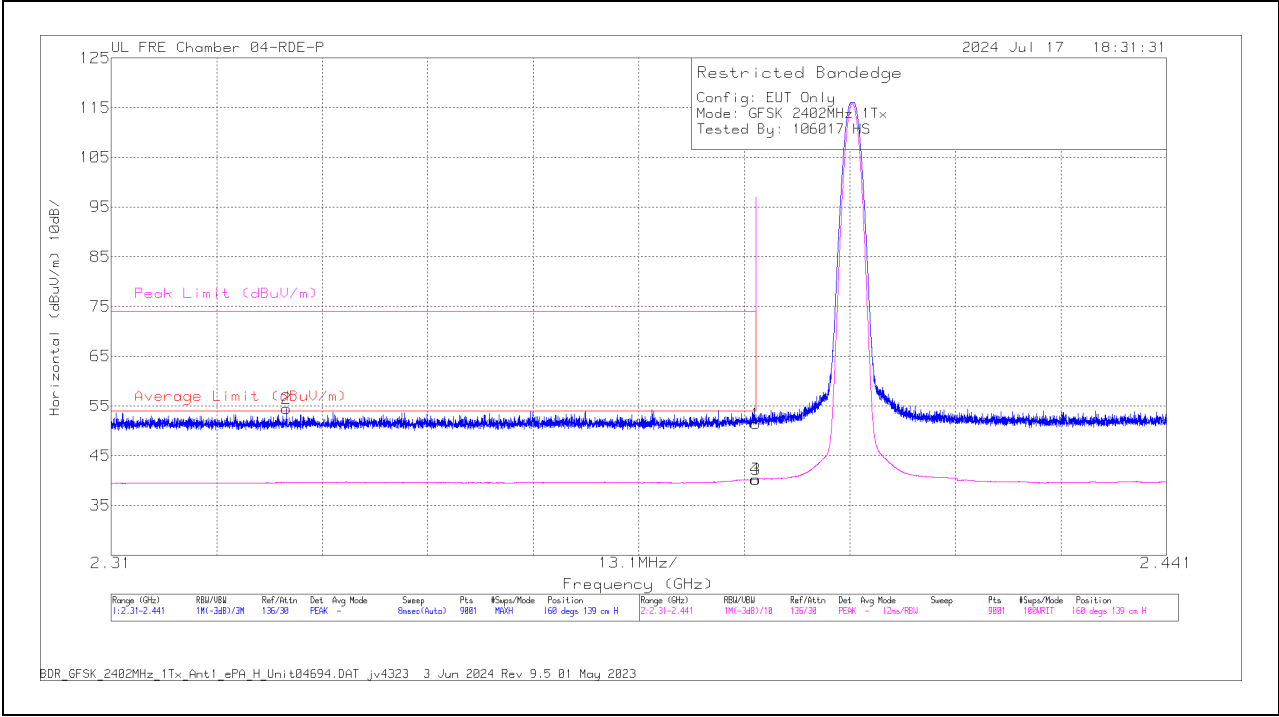
Pk - Peak detector

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

ANT 3

BANDEDGE (LOW CHANNEL)

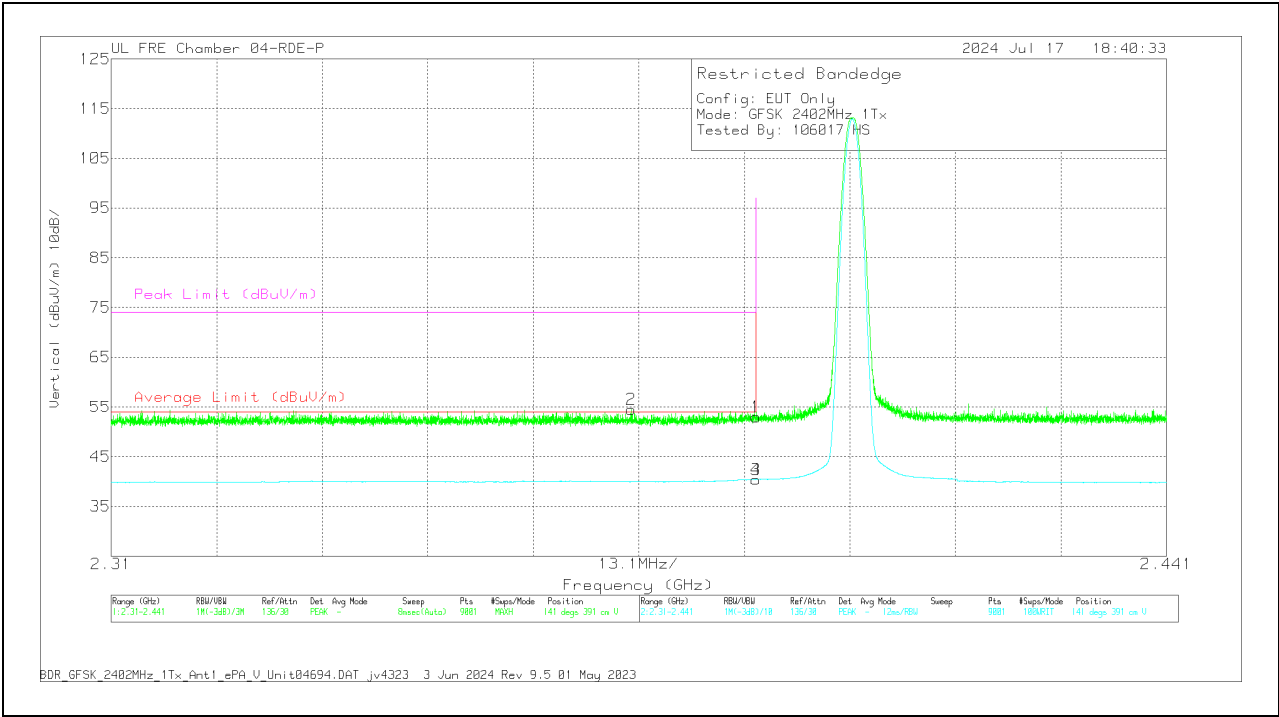
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	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	* 2.331776	63.34	Pk	31.9	-40.8	54.44	-	-	74	-19.56	160	139	H
4	* 2.389985	48.98	VA1T	32	-40.75	40.23	54	-13.77	-	-	160	139	H
1	* 2.39	60.17	Pk	32	-40.75	51.42	-	-	74	-22.58	160	139	H
3	* 2.39	48.97	VA1T	32	-40.75	40.22	54	-13.78	-	-	160	139	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

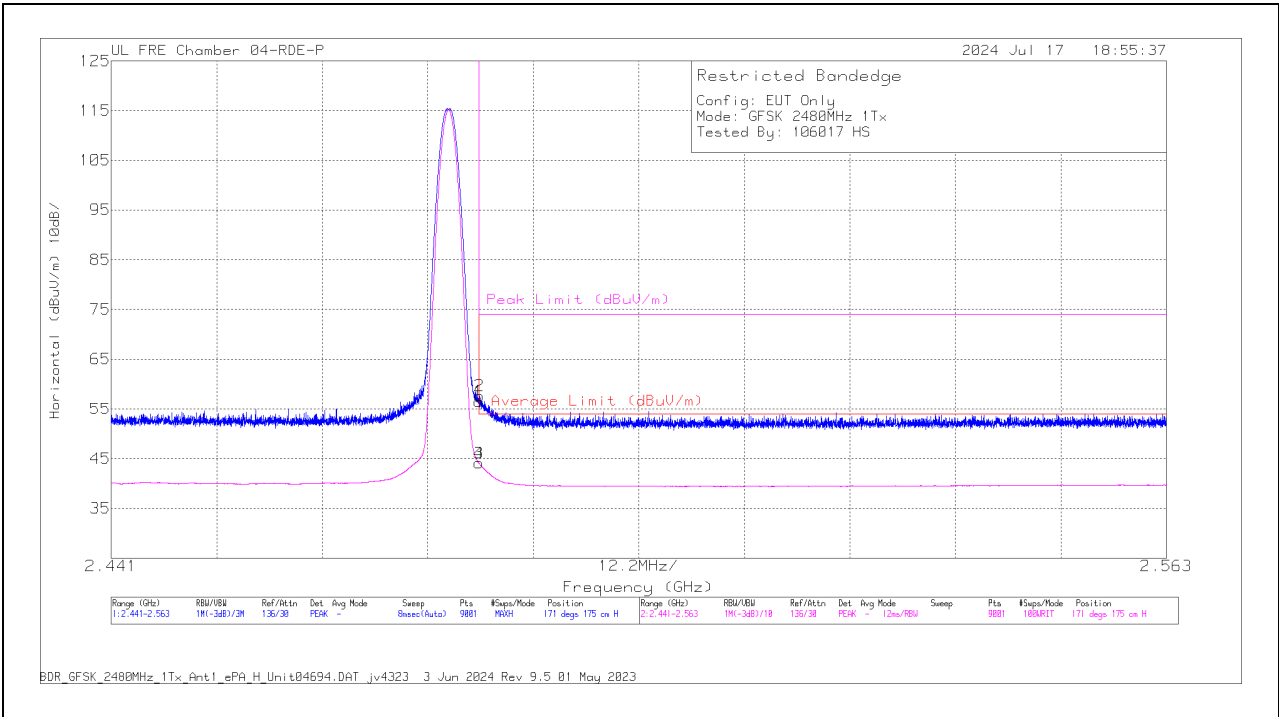


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.374541	63.3	Pk	32	-40.76	54.54	-	-	74	-19.46	141	391	V
1	* 2.39	61.74	Pk	32	-40.75	52.99	-	-	74	-21.01	141	391	V
3	* 2.39	49.17	VA1T	32	-40.75	40.42	54	-13.58	-	-	141	391	V
4	* 2.39	49.17	VA1T	32	-40.75	40.42	54	-13.58	-	-	141	391	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

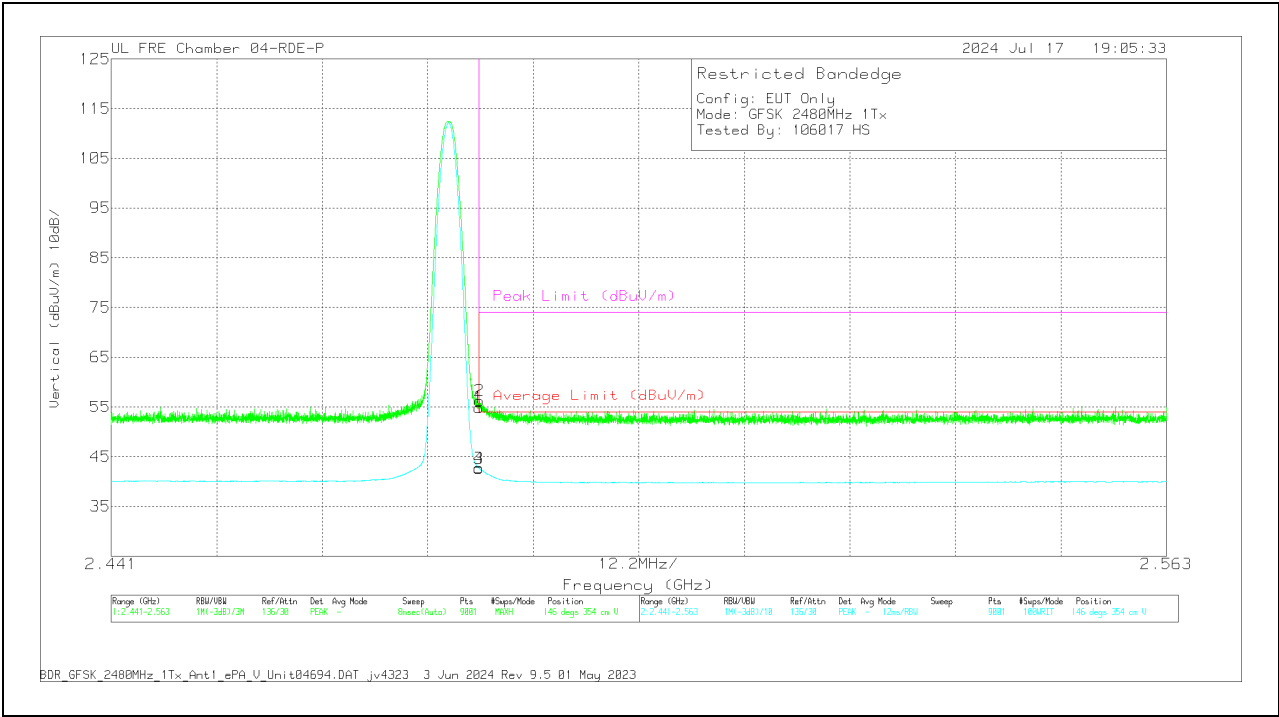
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	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	65.17	Pk	32.2	-40.83	56.54	-	-	74	-17.46	171	175	H
3	* 2.4835	52.73	VA1T	32.2	-40.83	44.1	54	-9.9	-	-	171	175	H
4	* 2.483512	52.72	VA1T	32.2	-40.83	44.09	54	-9.91	-	-	171	175	H
2	* 2.483552	66.23	Pk	32.2	-40.83	57.6	-	-	74	-16.4	171	175	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



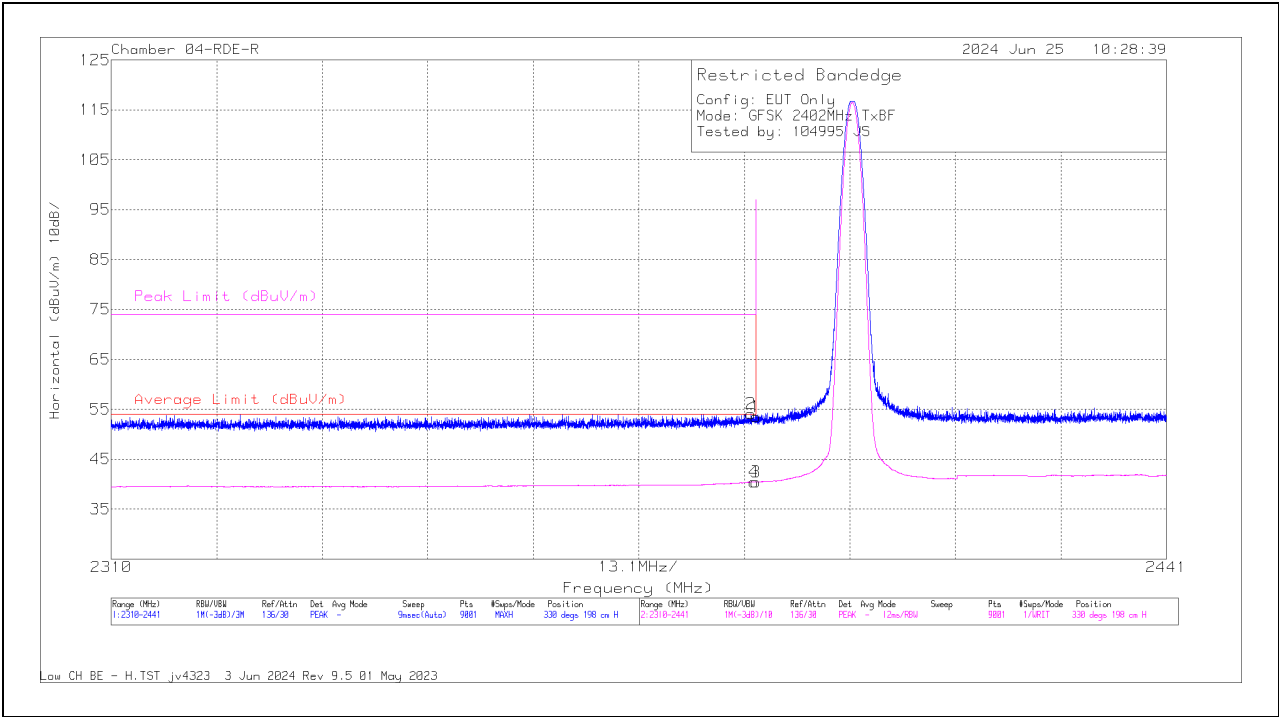
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	63.46	Pk	32.2	-40.83	54.83	-	-	74	-19.17	146	354	V
3	* 2.4835	51.33	VA1T	32.2	-40.83	42.7	54	-11.3	-	-	146	354	V
4	* 2.483512	51.31	VA1T	32.2	-40.83	42.68	54	-11.32	-	-	146	354	V
2	* 2.483552	64.92	Pk	32.2	-40.83	56.29	-	-	74	-17.71	146	354	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.2. HIGH POWER BASIC DATA RATE TXBF GFSK MODULATION

BANDEGE (LOW CHANNEL)

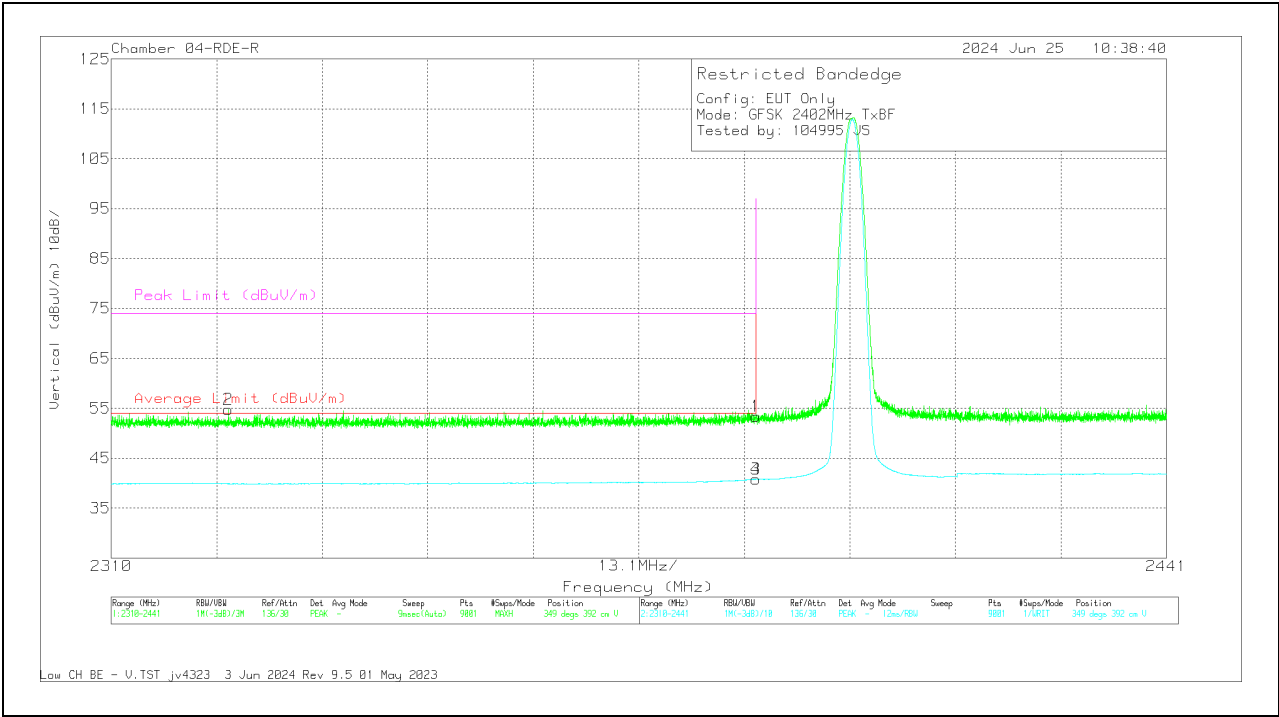
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	* 2389.403	62.58	Pk	32	-40.43	54.15	-	-	74	-19.85	330	198	H
4	* 2389.811	48.92	VA1T	32	-40.44	40.48	54	-13.52	-	-	330	198	H
1	* 2390	61.9	Pk	32	-40.44	53.46	-	-	74	-20.54	330	198	H
3	* 2390	48.89	VA1T	32	-40.44	40.45	54	-13.55	-	-	330	198	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

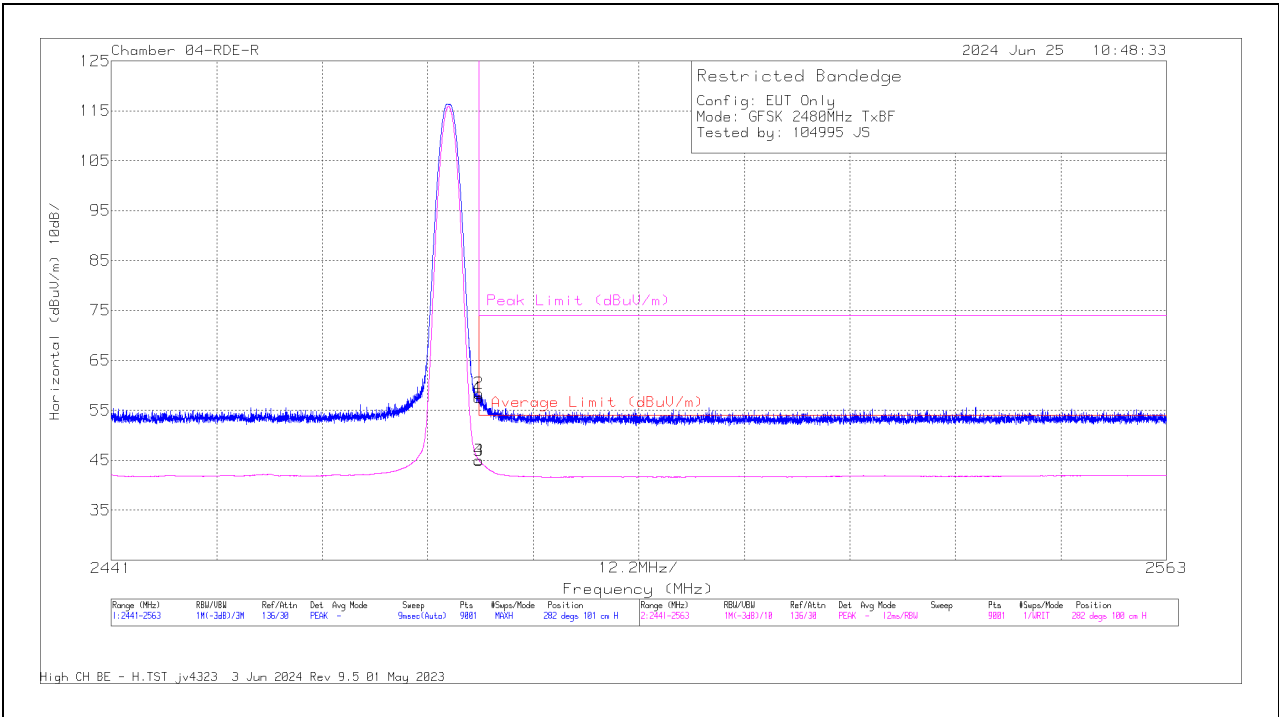


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2324.556	63.57	Pk	31.8	-40.6	54.77	-	-	74	-19.23	349	392	V
1	* 2390	61.82	Pk	32	-40.44	53.38	-	-	74	-20.62	349	392	V
3	* 2390	49.21	VA1T	32	-40.44	40.77	54	-13.23	-	-	349	392	V
4	* 2390	49.21	VA1T	32	-40.44	40.77	54	-13.23	-	-	349	392	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



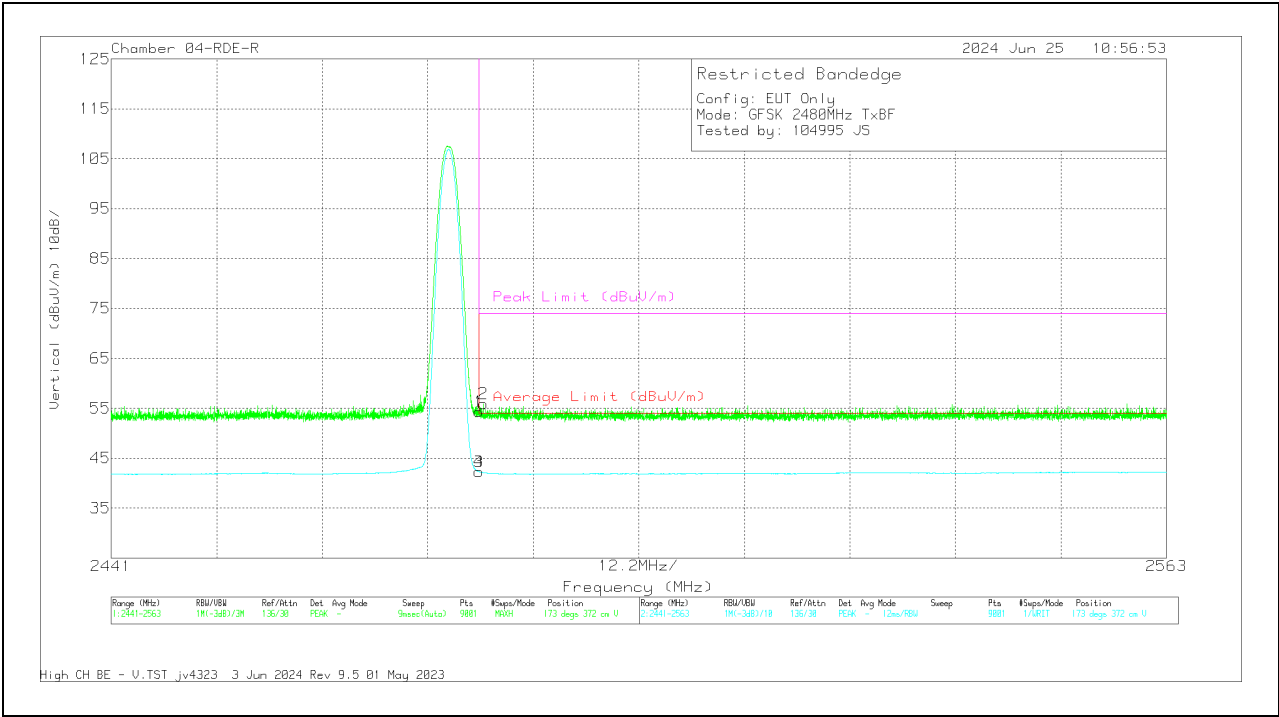
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	65.35	Pk	32.3	-40.12	57.53	-	-	74	-16.47	282	101	H
3	* 2483.5	52.84	VA1T	32.3	-40.12	45.02	54	-8.98	-	-	282	100	H
4	* 2483.512	52.82	VA1T	32.3	-40.12	45	54	-9	-	-	282	100	H
2	* 2483.539	66.21	Pk	32.3	-40.12	58.39	-	-	74	-15.61	282	101	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	62.14	Pk	32.3	-40.12	54.32	-	-	74	-19.68	173	372	V
3	* 2483.5	50.09	VA1T	32.3	-40.12	42.27	54	-11.73	-	-	173	372	V
4	* 2483.512	50.09	VA1T	32.3	-40.12	42.27	54	-11.73	-	-	173	372	V
2	* 2484.04	63.74	Pk	32.3	-40.12	55.92	-	-	74	-18.08	173	372	V

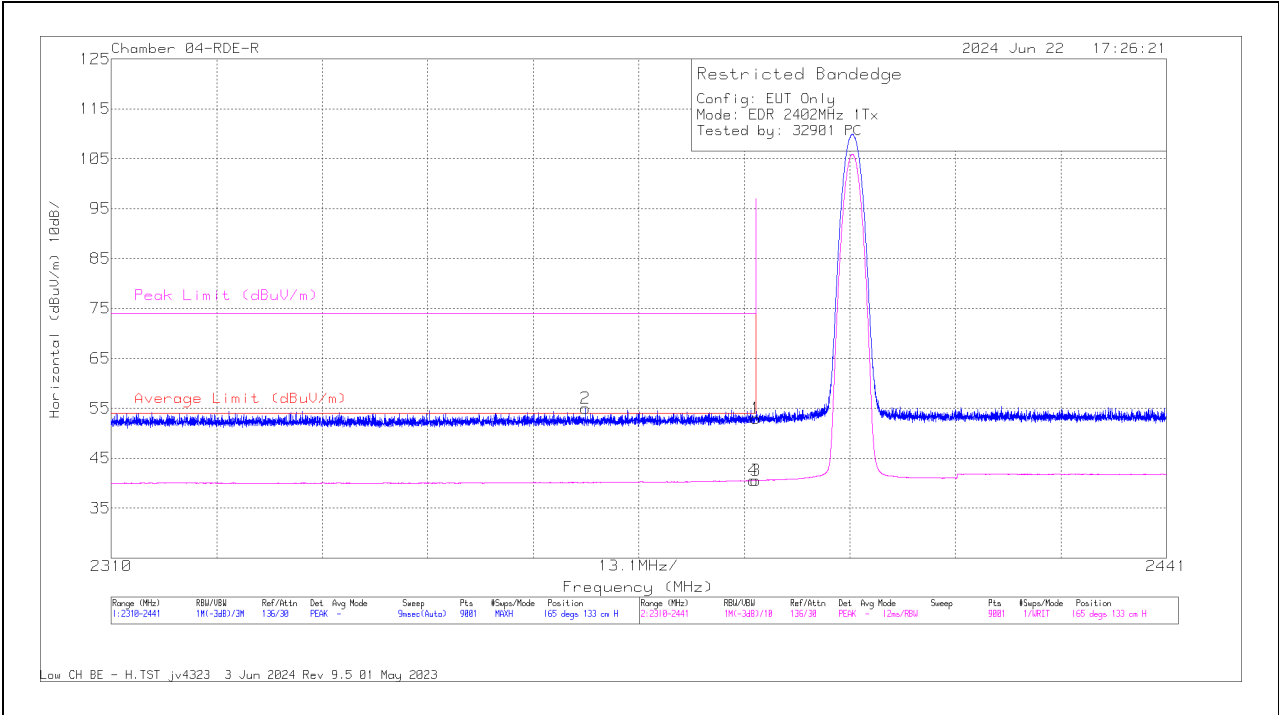
* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

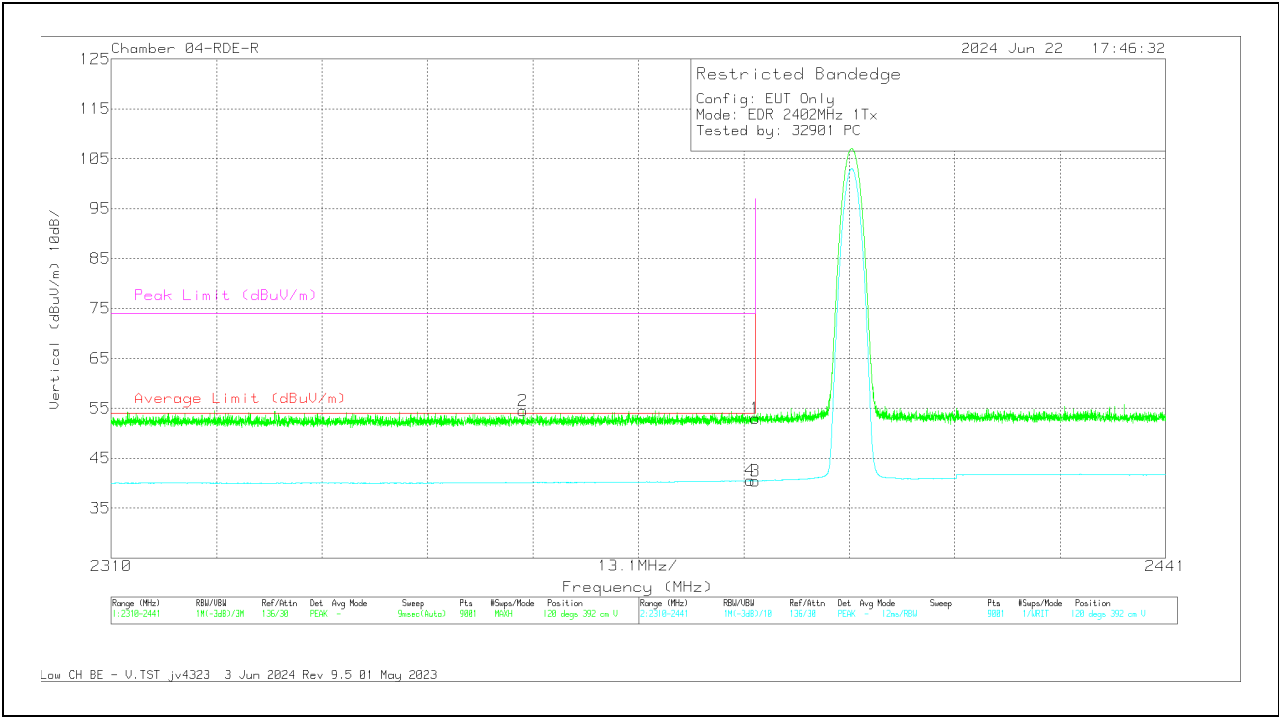
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	* 2368.894	63.67	Pk	31.9	-40.56	55.01	-	-	74	-18.99	165	133	H
4	* 2389.723	49	VA1T	32	-40.44	40.56	54	-13.44	-	-	165	133	H
1	* 2390	61.46	Pk	32	-40.44	53.02	-	-	74	-20.98	165	133	H
3	* 2390	48.96	VA1T	32	-40.44	40.52	54	-13.48	-	-	165	133	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

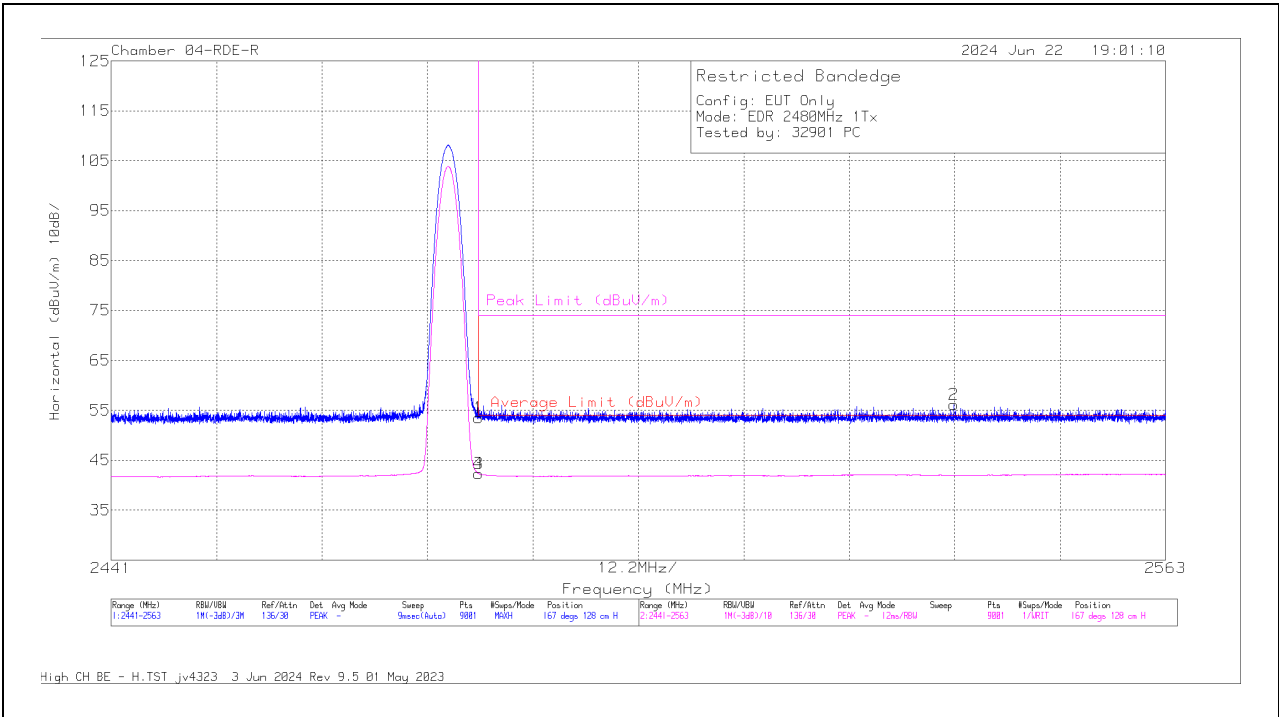


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2361.208	63.27	Pk	31.8	-40.54	54.53	-	-	74	-19.47	120	392	V
4	* 2389.432	48.95	VA1T	32	-40.43	40.52	54	-13.48	-	-	120	392	V
1	* 2390	61.5	Pk	32	-40.44	53.06	-	-	74	-20.94	120	392	V
3	* 2390	48.91	VA1T	32	-40.44	40.47	54	-13.53	-	-	120	392	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



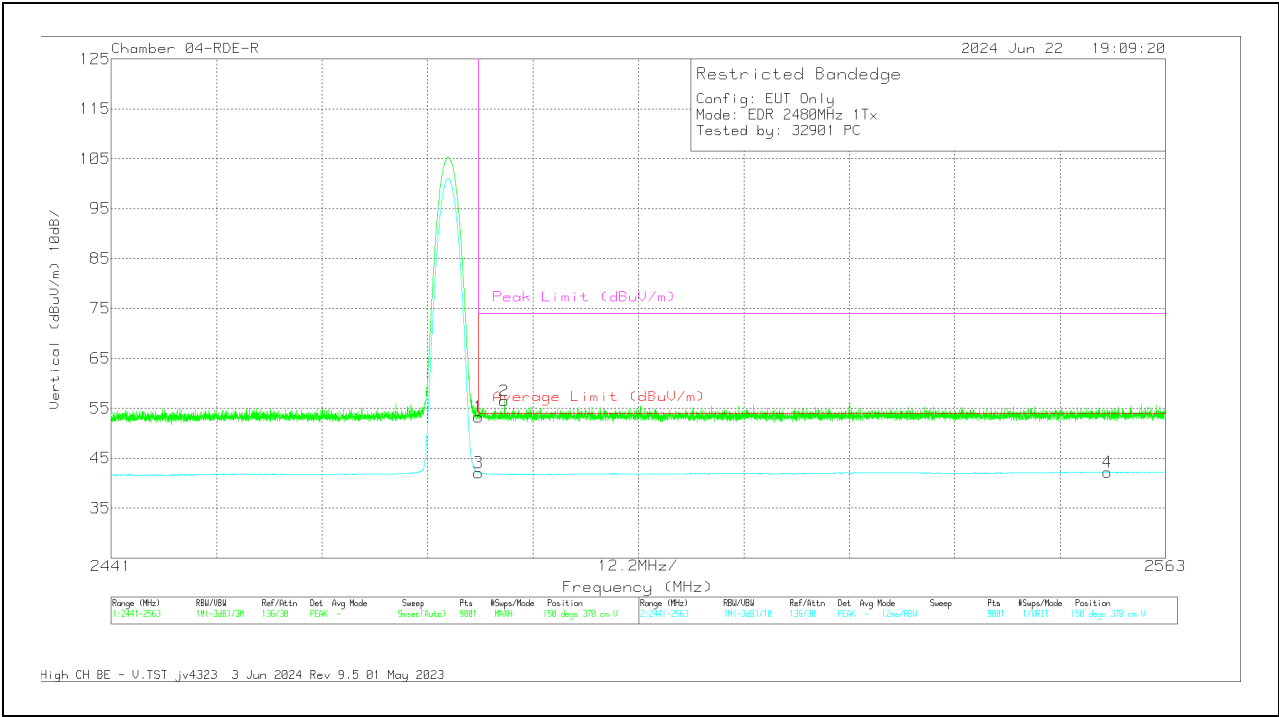
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.36	Pk	32.3	-40.12	53.54	-	-	74	-20.46	167	128	H
3	* 2483.5	50.18	VA1T	32.3	-40.12	42.36	54	-11.64	-	-	167	128	H
4	* 2483.512	50.17	VA1T	32.3	-40.12	42.35	54	-11.65	-	-	167	128	H
2	* 2538.508	63.75	Pk	32.4	-39.95	56.2	-	-	74	-17.8	167	128	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	61.04	Pk	32.3	-40.12	53.22	-	-	74	-20.78	150	370	V
3	* 2483.5	49.92	VA1T	32.3	-40.12	42.1	54	-11.9	-	-	150	370	V
2	* 2486.494	64.28	Pk	32.3	-40.11	56.47	-	-	74	-17.53	150	370	V
4	* 2556.294	49.76	VA1T	32.3	-39.83	42.23	54	-11.77	-	-	150	370	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

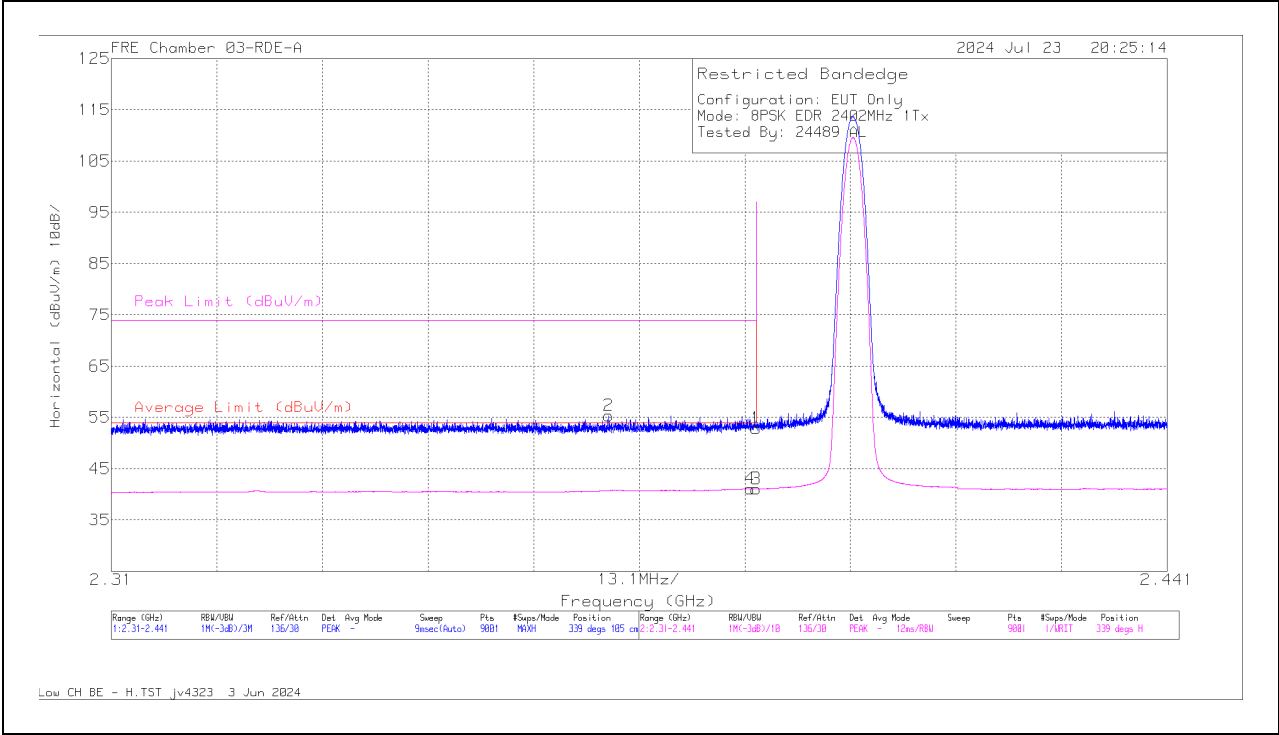
Pk - Peak detector

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

ANT 3

BANDEDGE (LOW CHANNEL)

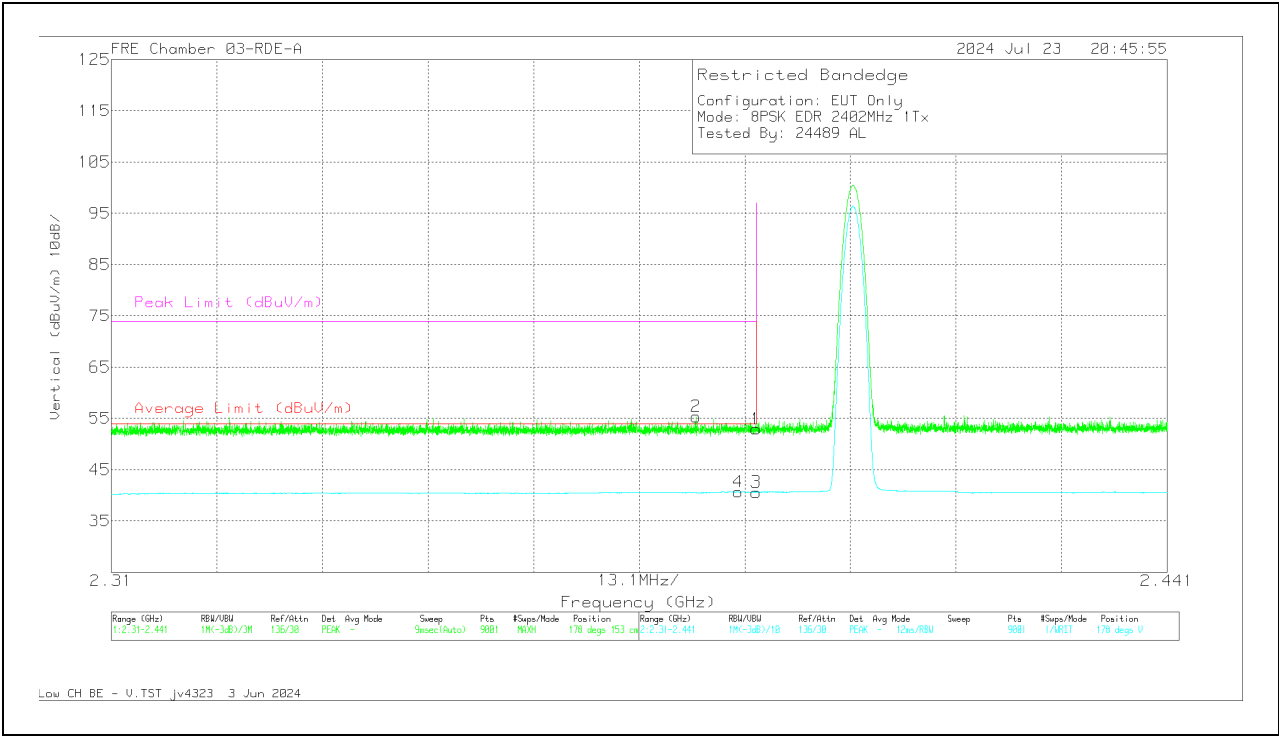
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	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	60.82	Pk	32.1	-40.07	52.85	-	-	74	-21.15	339	105	H
2	* 2.371732	63.38	Pk	32.1	-40.13	55.35	-	-	74	-18.65	339	105	H
3	* 2.39	49.02	VA1T	32.1	-40.07	41.05	54	-12.95	-	-	339	105	H
4	* 2.389272	49.06	VA1T	32.1	-40.06	41.1	54	-12.9	-	-	339	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

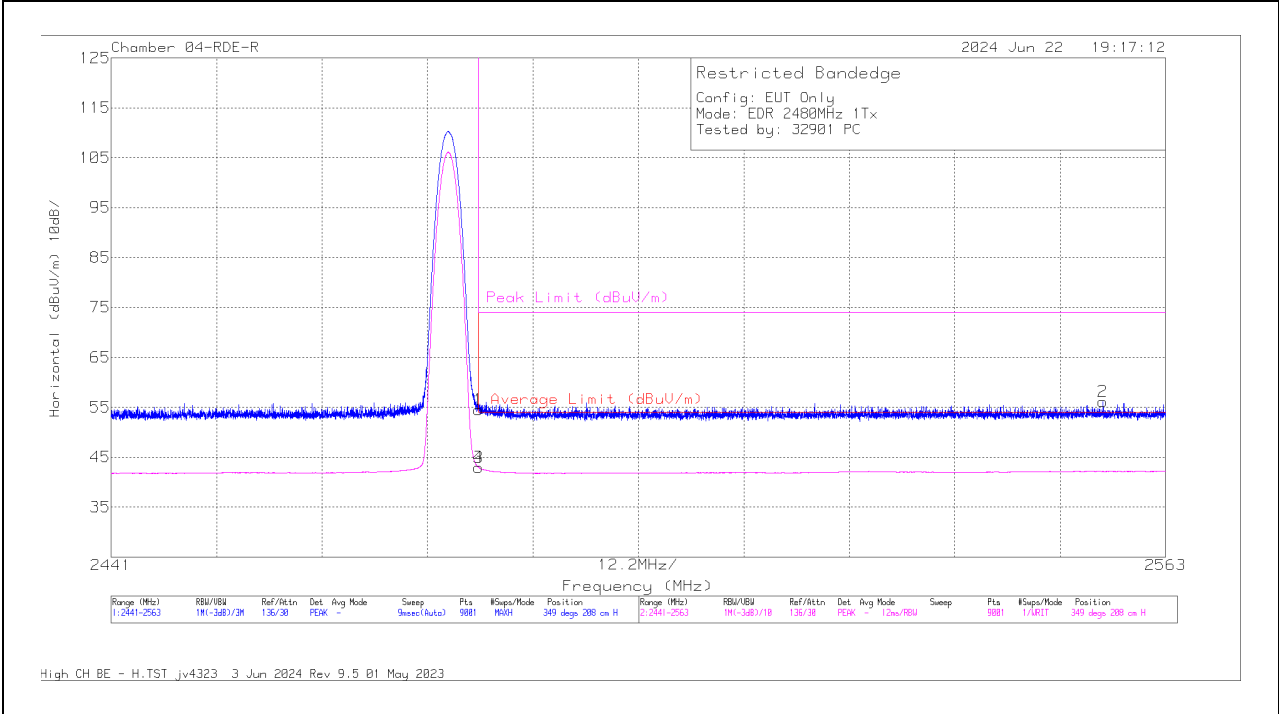


Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.91	Pk	32.1	-40.07	52.94	-	-	74	-21.06	178	153	V
2	* 2.382562	63.38	Pk	32.1	-40.13	55.35	-	-	74	-18.65	178	153	V
3	* 2.39	48.57	VA1T	32.1	-40.07	40.6	54	-13.4	-	-	178	153	V
4	* 2.387802	48.61	VA1T	32.1	-40.05	40.66	54	-13.34	-	-	178	153	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



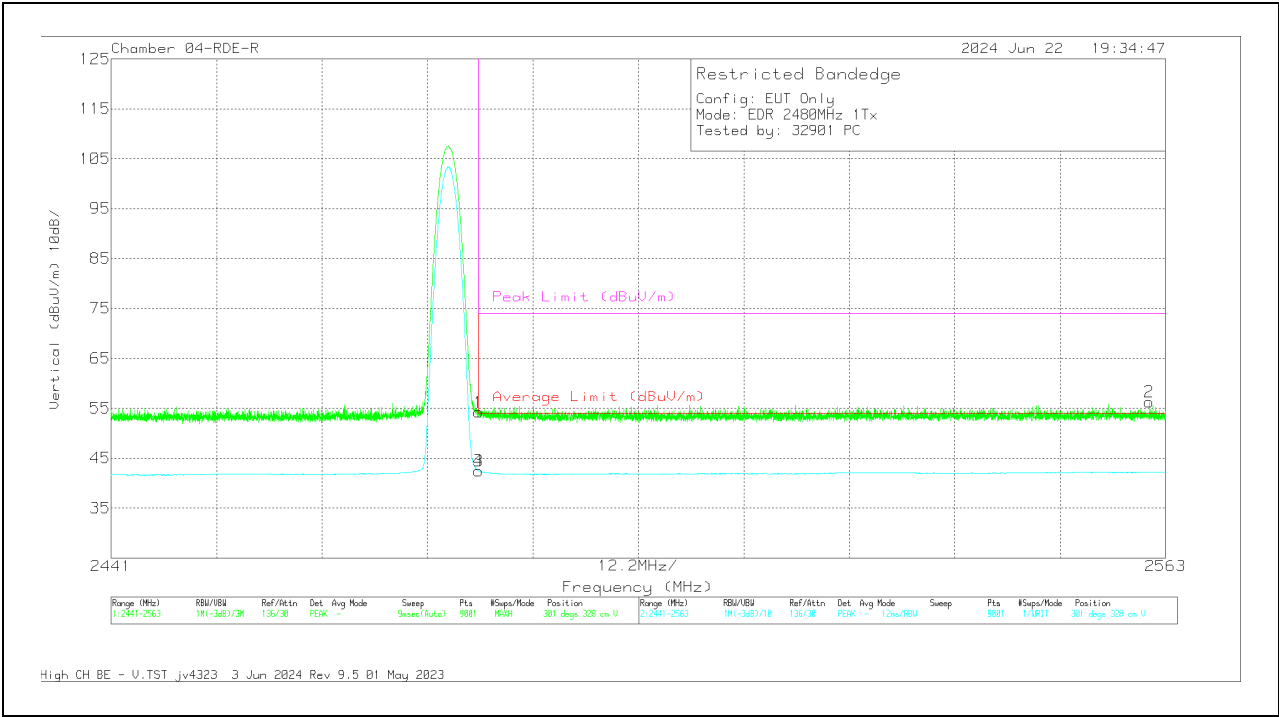
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	62.31	Pk	32.3	-40.12	54.49	-	-	74	-19.51	349	208	H
3	* 2483.5	50.8	VA1T	32.3	-40.12	42.98	54	-11.02	-	-	349	208	H
4	* 2483.512	50.79	VA1T	32.3	-40.12	42.97	54	-11.03	-	-	349	208	H
2	* 2555.779	63.66	Pk	32.3	-39.83	56.13	-	-	74	-17.87	349	208	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

VERTICAL RESULT



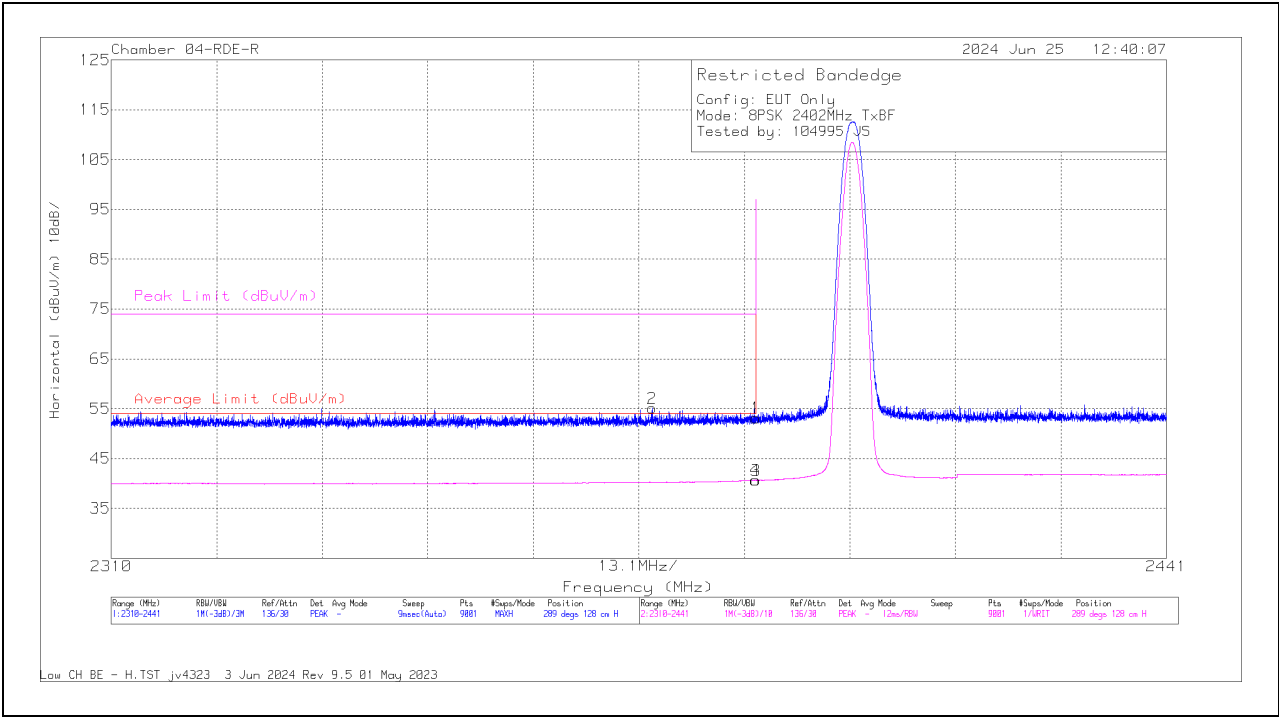
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	62.02	Pk	32.3	-40.12	54.2	-	-	74	-19.8	301	328	V
3	2483.5	50.3	VA1T	32.3	-40.12	42.48	54	-11.52	-	-	301	328	V
4	2483.512	50.31	VA1T	32.3	-40.12	42.49	54	-11.51	-	-	301	328	V
2	2561.093	63.81	Pk	32.3	-39.85	56.26	-	-	74	-17.74	301	328	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.4. HIGH POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

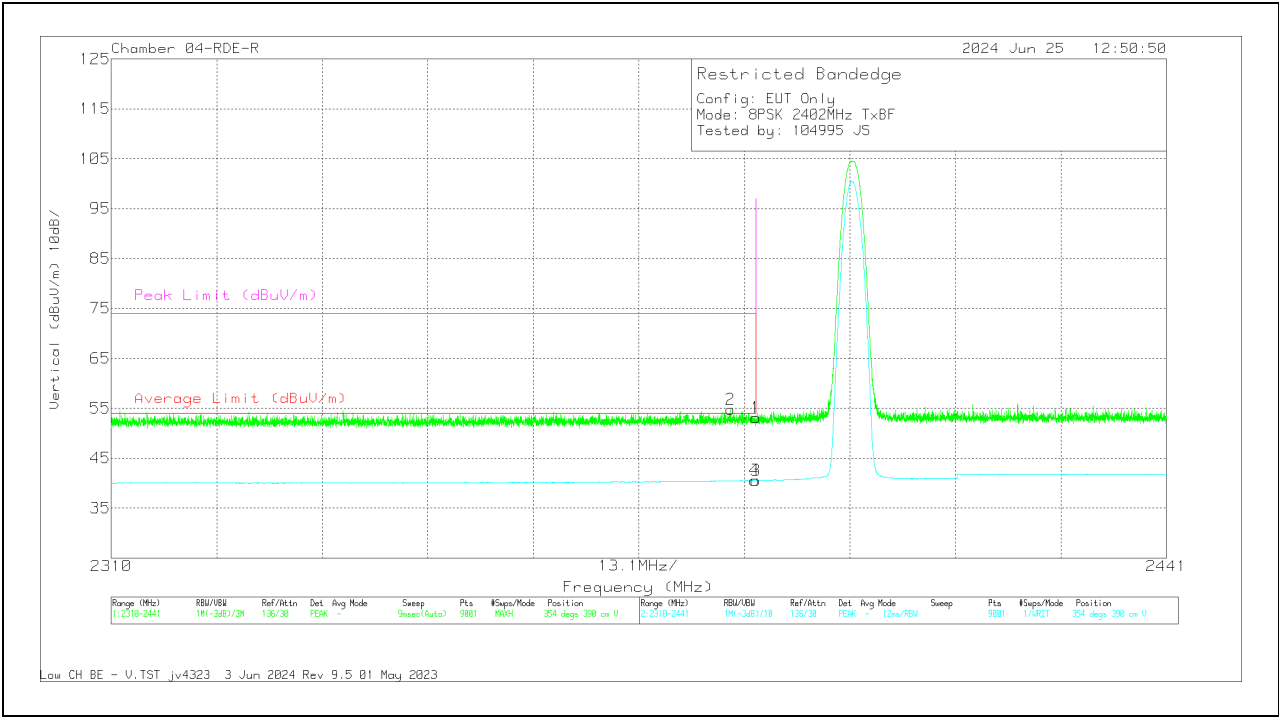
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	* 2377.161	63.66	Pk	31.9	-40.48	55.08	-	-	74	-18.92	289	128	H
4	* 2389.985	49.08	VA1T	32	-40.44	40.64	54	-13.36	-	-	289	128	H
1	* 2390	61.55	Pk	32	-40.44	53.11	-	-	74	-20.89	289	128	H
3	* 2390	49.07	VA1T	32	-40.44	40.63	54	-13.37	-	-	289	128	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

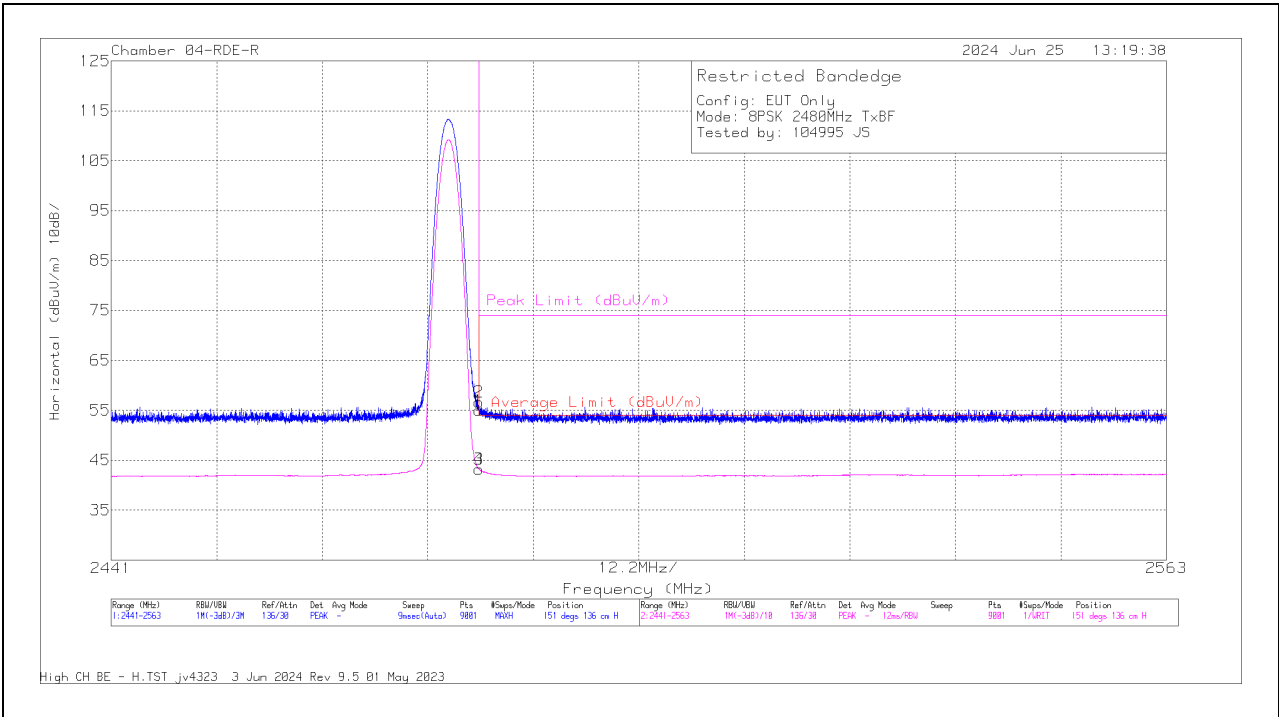


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2386.885	63.15	Pk	32	-40.42	54.73	-	-	74	-19.27	354	390	V
4	* 2389.898	48.97	VA1T	32	-40.44	40.53	54	-13.47	-	-	354	390	V
1	* 2390	61.59	Pk	32	-40.44	53.15	-	-	74	-20.85	354	390	V
3	* 2390	48.96	VA1T	32	-40.44	40.52	54	-13.48	-	-	354	390	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

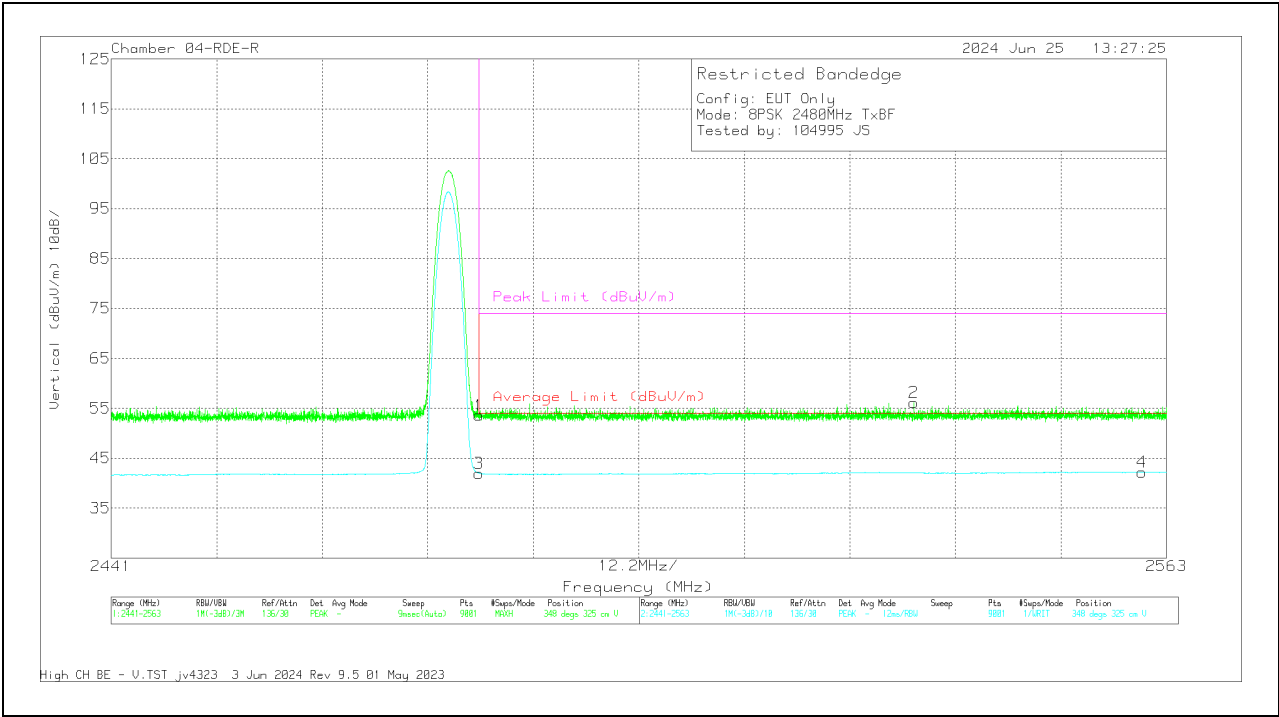
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	62.78	Pk	32.3	-40.12	54.96	-	-	74	-19.04	151	136	H
3	* 2483.5	51.07	VA1T	32.3	-40.12	43.25	54	-10.75	-	-	151	136	H
2	* 2483.512	64.45	Pk	32.3	-40.12	56.63	-	-	74	-17.37	151	136	H
4	* 2483.512	51.05	VA1T	32.3	-40.12	43.23	54	-10.77	-	-	151	136	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	61.4	Pk	32.3	-40.12	53.58	-	-	74	-20.42	348	325	V
3	* 2483.5	49.82	VA1T	32.3	-40.12	42	54	-12	-	-	348	325	V
2	* 2533.818	63.68	Pk	32.4	-39.92	56.16	-	-	74	-17.84	348	325	V
4	* 2560.144	49.79	VA1T	32.3	-39.85	42.24	54	-11.76	-	-	348	325	V

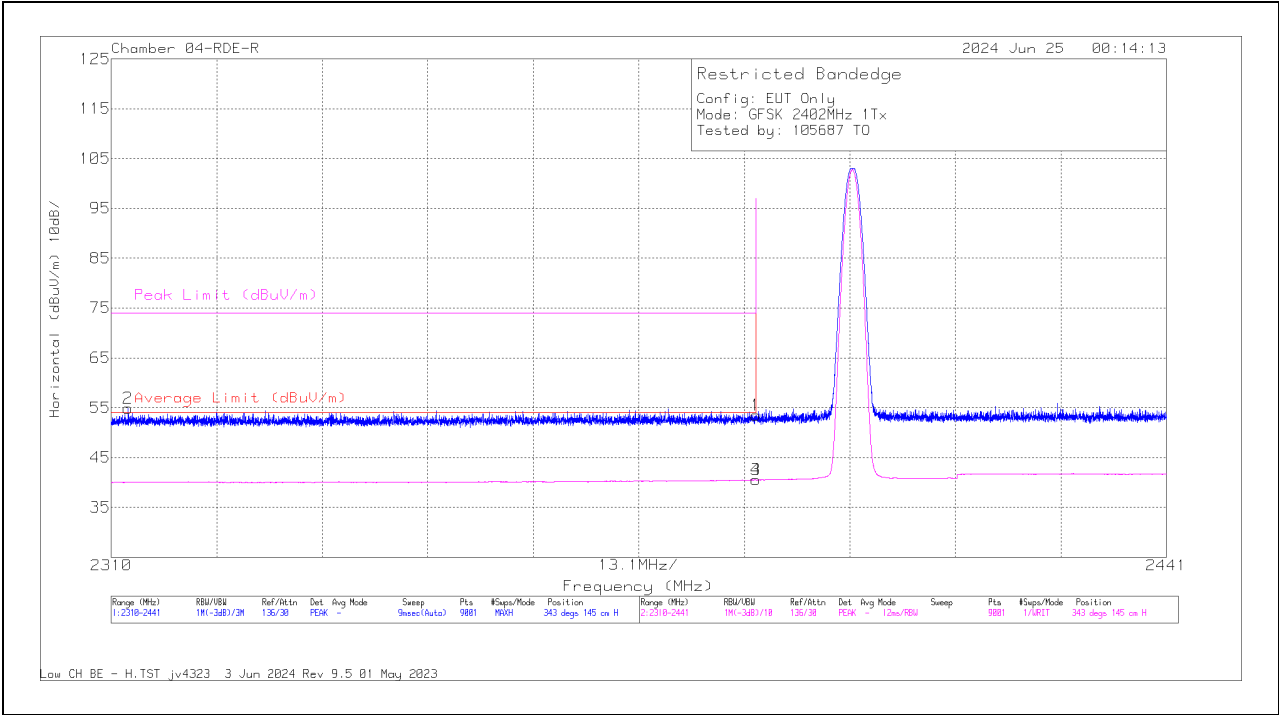
* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.5. LOW POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

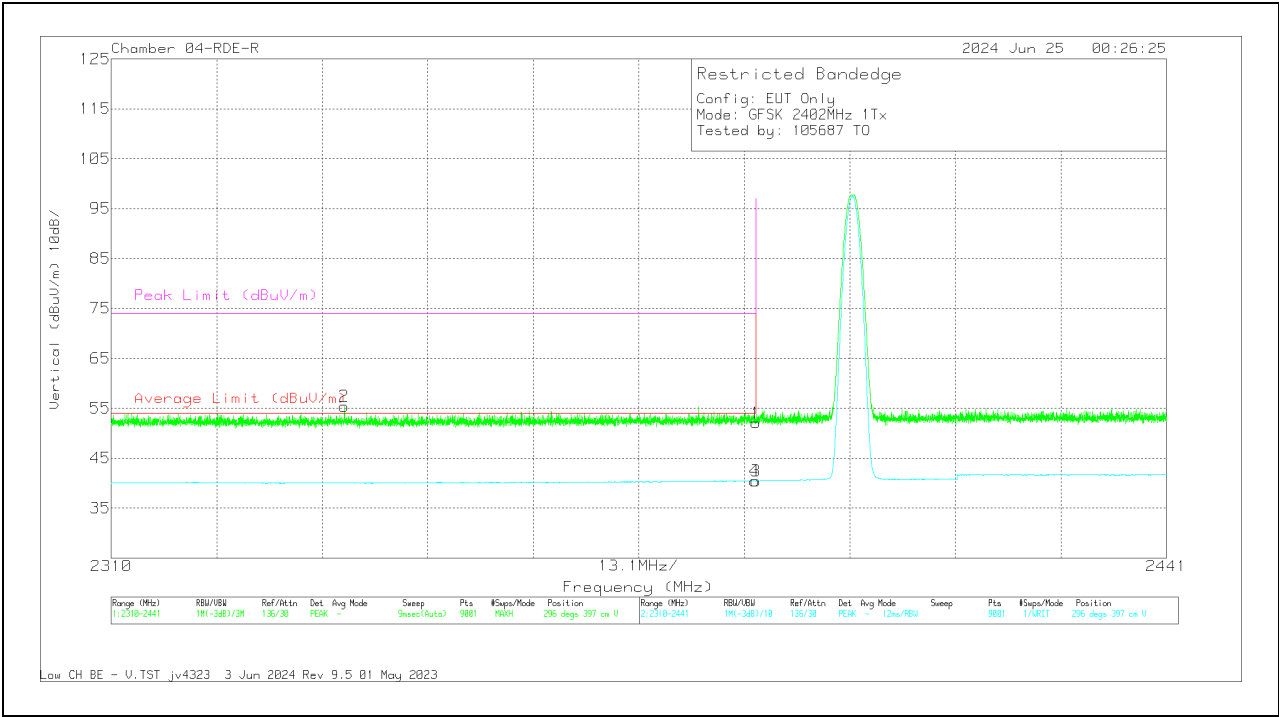
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	* 2312.111	63.78	Pk	31.7	-40.6	54.88	-	-	74	-19.12	343	145	H
1	* 2390	61.9	Pk	32	-40.44	53.46	-	-	74	-20.54	343	145	H
3	* 2390	48.96	VA1T	32	-40.44	40.52	54	-13.48	-	-	343	145	H
4	* 2390	48.96	VA1T	32	-40.44	40.52	54	-13.48	-	-	343	145	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

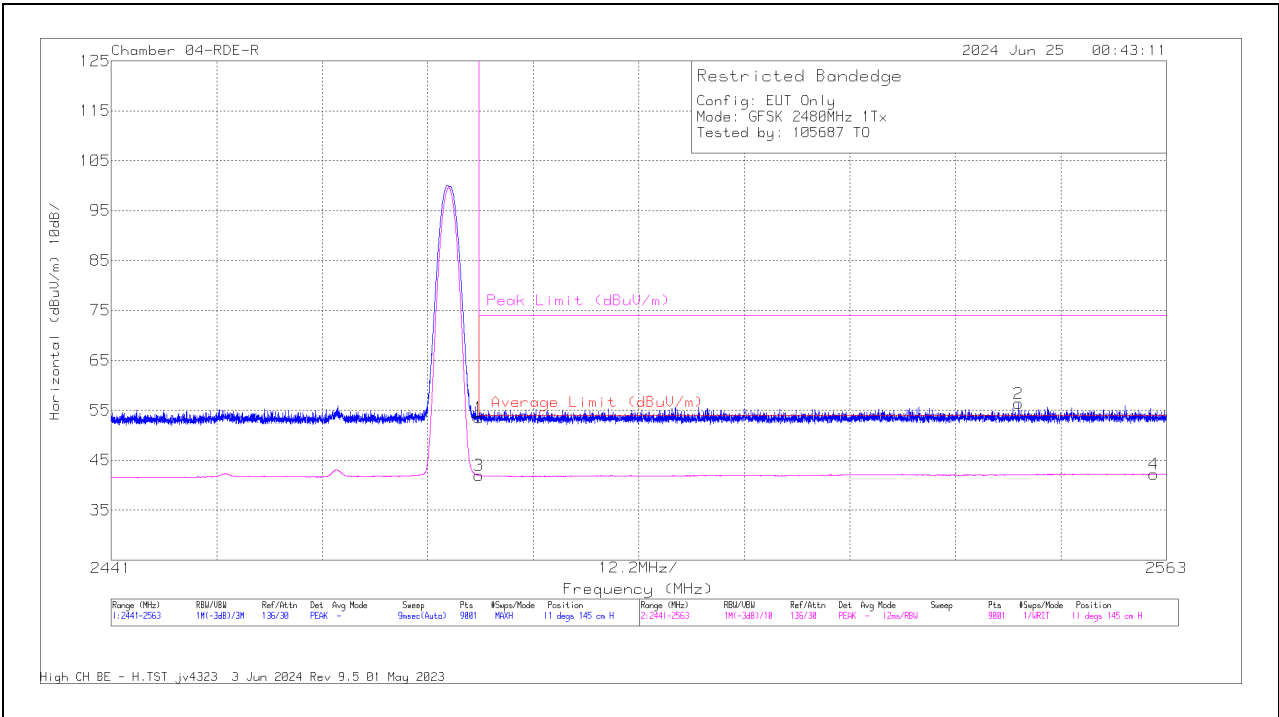


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2338.952	64.16	Pk	31.8	-40.56	55.4	-	-	74	-18.6	296	397	V
4	* 2389.898	48.93	VA1T	32	-40.44	40.49	54	-13.51	-	-	296	397	V
1	* 2390	60.5	Pk	32	-40.44	52.06	-	-	74	-21.94	296	397	V
3	* 2390	48.91	VA1T	32	-40.44	40.47	54	-13.53	-	-	296	397	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



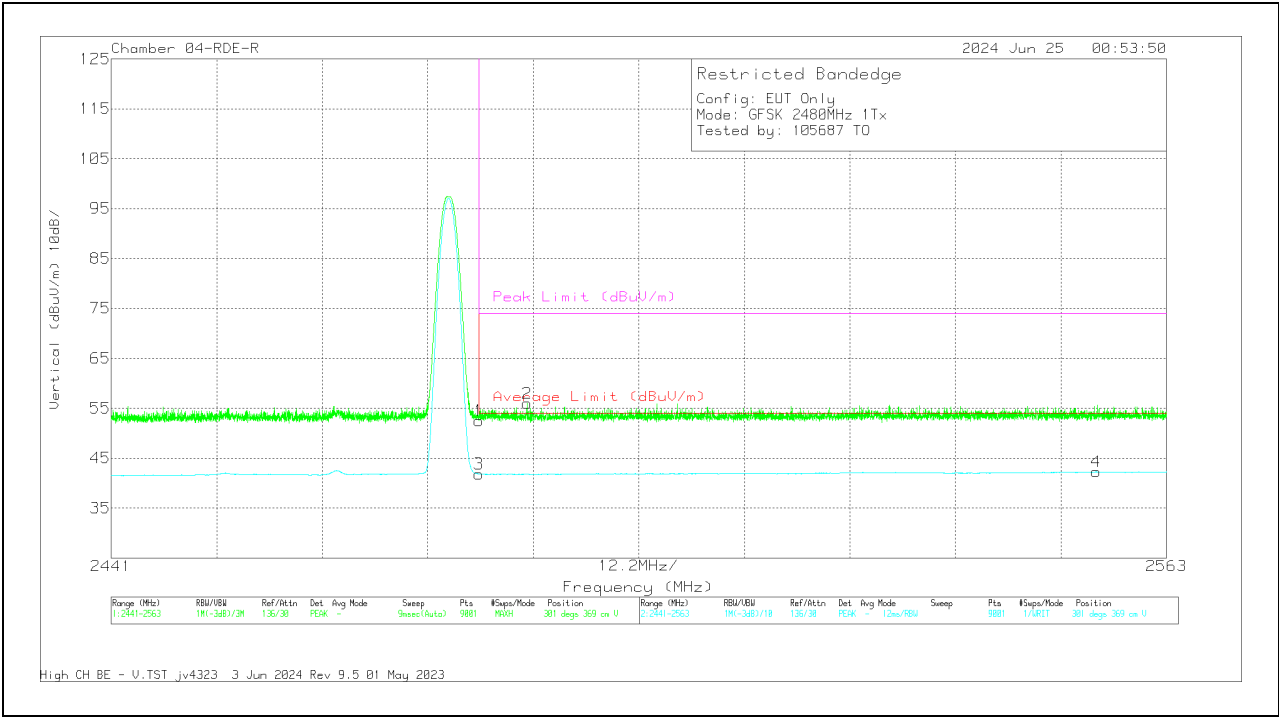
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.34	Pk	32.3	-40.12	53.52	-	-	74	-20.48	11	145	H
3	* 2483.5	49.78	VA1T	32.3	-40.12	41.96	54	-12.04	-	-	11	145	H
2	* 2545.923	63.86	Pk	32.4	-39.92	56.34	-	-	74	-17.66	11	145	H
4	* 2561.526	49.79	VA1T	32.3	-39.84	42.25	54	-11.75	-	-	11	145	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT



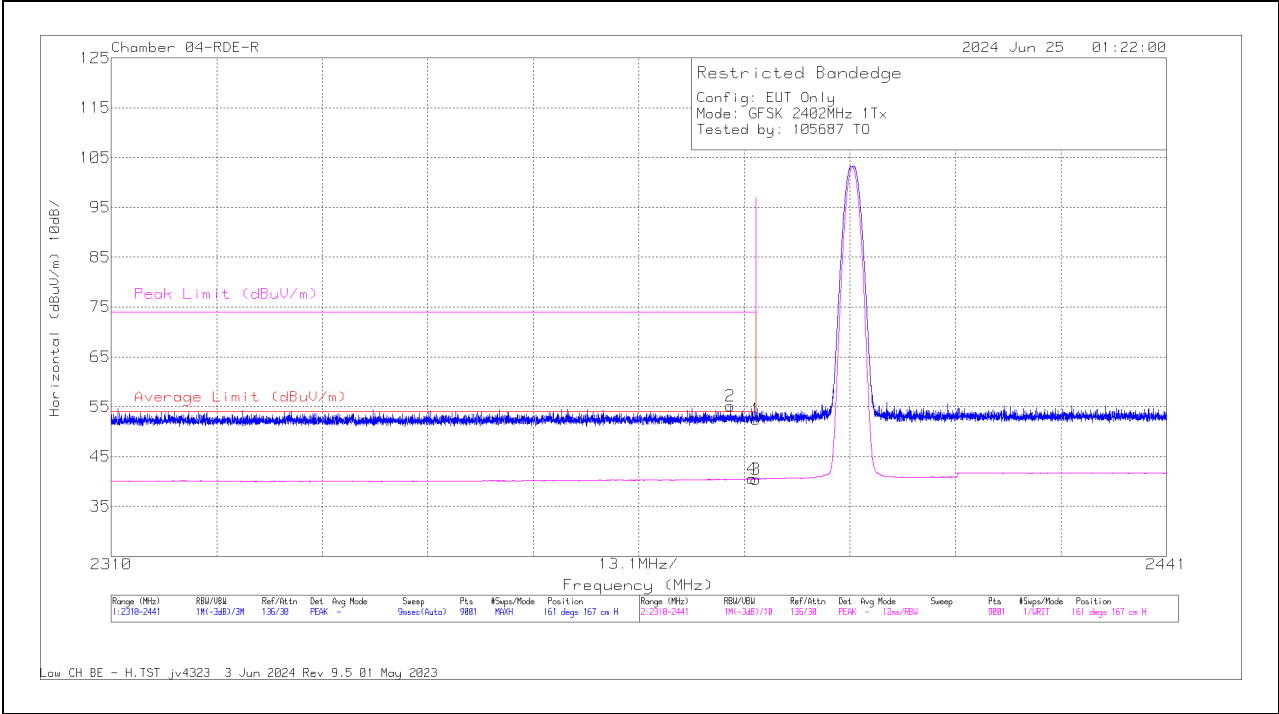
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	60.32	Pk	32.3	-40.12	52.5	-	-	74	-21.5	301	369	V
3	* 2483.5	49.65	VA1T	32.3	-40.12	41.83	54	-12.17	-	-	301	369	V
2	* 2489.07	63.78	Pk	32.3	-40.12	55.96	-	-	74	-18.04	301	369	V
4	* 2554.884	49.8	VA1T	32.3	-39.83	42.27	54	-11.73	-	-	301	369	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 3

BANDEDGE (LOW CHANNEL)

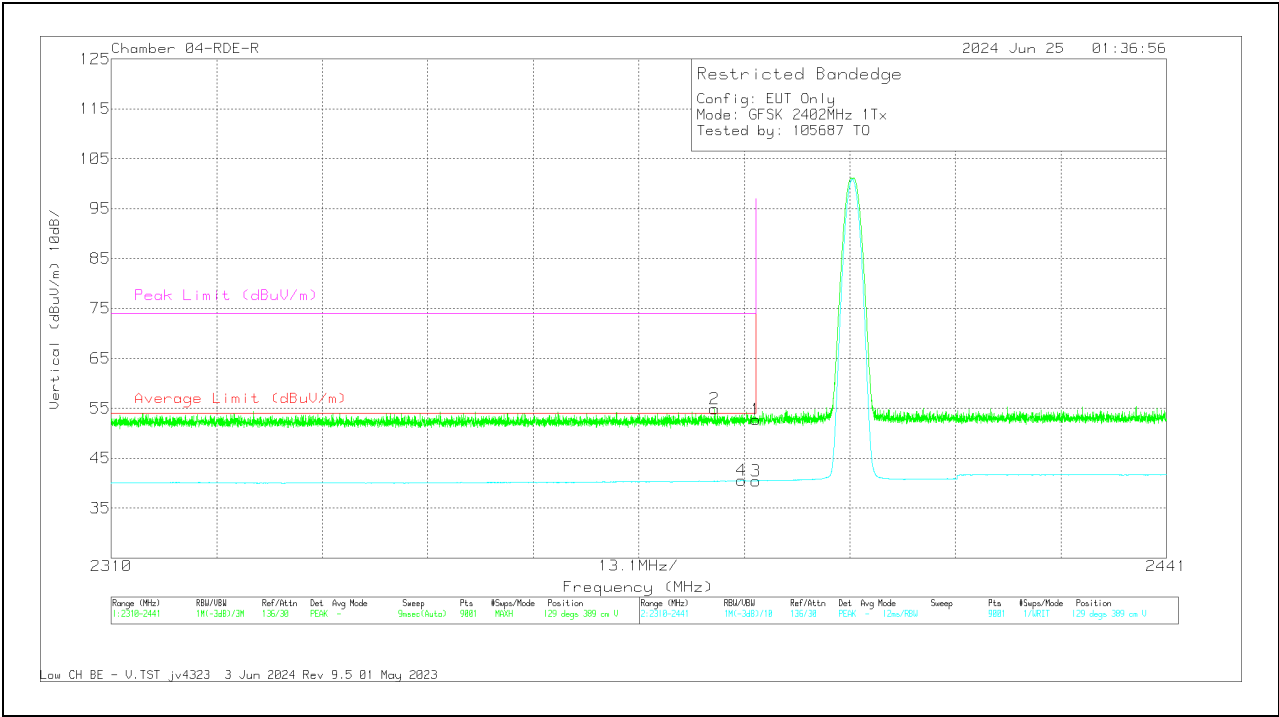
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	41112 ACF (dB/m)	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	* 2386.87	63.58	Pk	32	-40.42	55.16	-	-	74	-18.84	161	167	H
4	* 2389.534	48.96	VA1T	32	-40.44	40.52	54	-13.48	-	-	161	167	H
1	* 2390	60.96	Pk	32	-40.44	52.52	-	-	74	-21.48	161	167	H
3	* 2390	48.92	VA1T	32	-40.44	40.48	54	-13.52	-	-	161	167	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

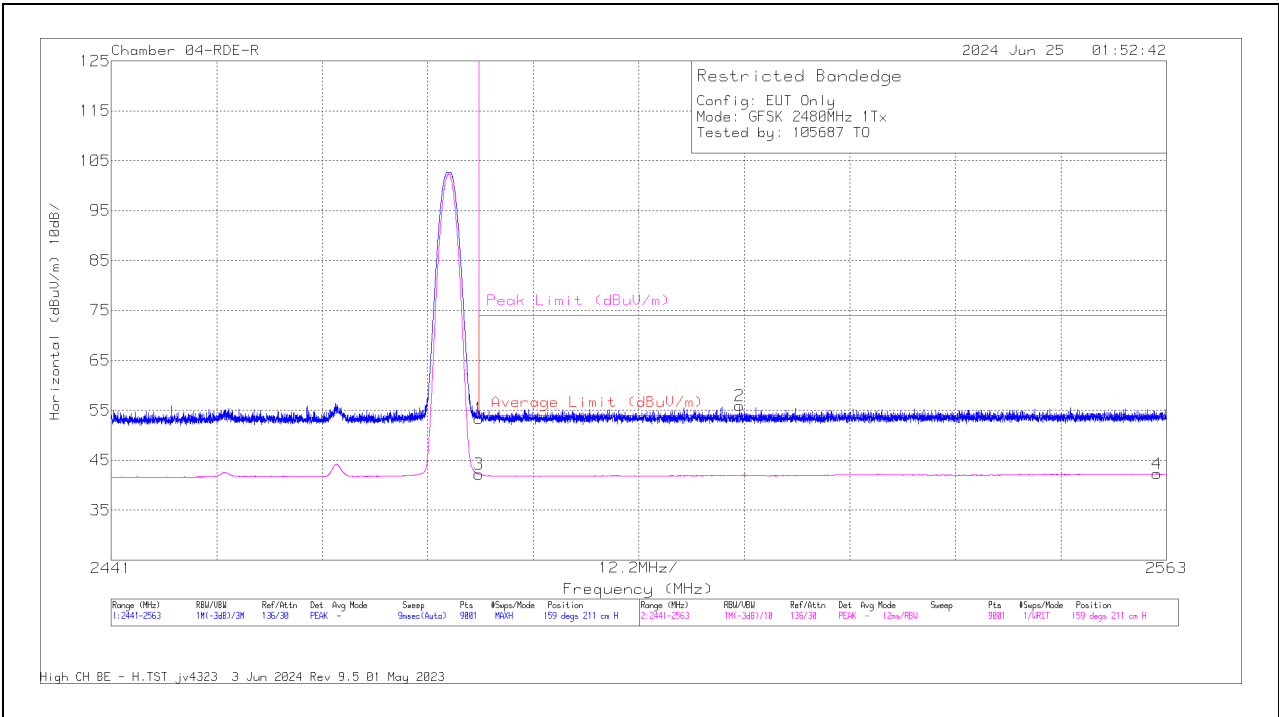


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2384.934	63.44	Pk	31.9	-40.43	54.91	-	-	74	-19.09	129	389	V
4	* 2388.239	48.96	VA1T	32	-40.43	40.53	54	-13.47	-	-	129	389	V
1	* 2390	61.19	Pk	32	-40.44	52.75	-	-	74	-21.25	129	389	V
3	* 2390	48.92	VA1T	32	-40.44	40.48	54	-13.52	-	-	129	389	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



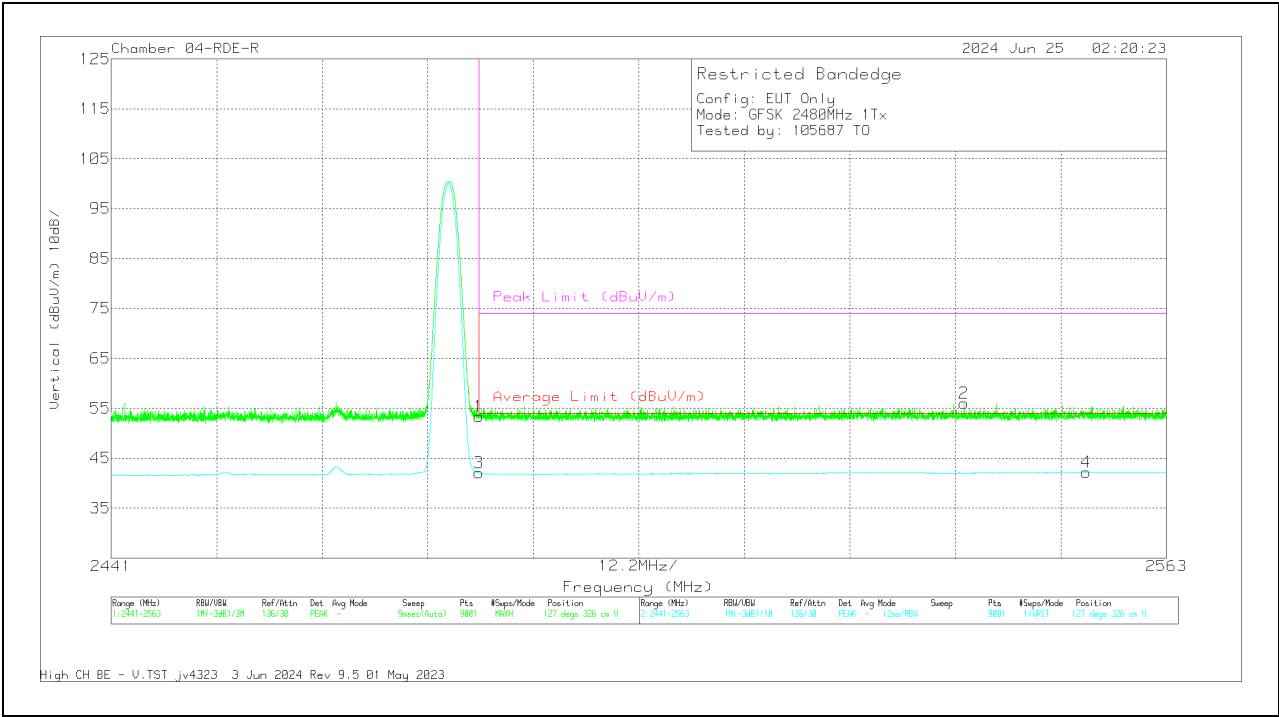
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.2	Pk	32.3	-40.12	53.38	-	-	74	-20.62	159	211	H
3	* 2483.5	49.99	VA1T	32.3	-40.12	42.17	54	-11.83	-	-	159	211	H
2	* 2513.647	63.62	Pk	32.3	-39.97	55.95	-	-	74	-18.05	159	211	H
4	* 2561.906	49.81	VA1T	32.3	-39.84	42.27	54	-11.73	-	-	159	211	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT

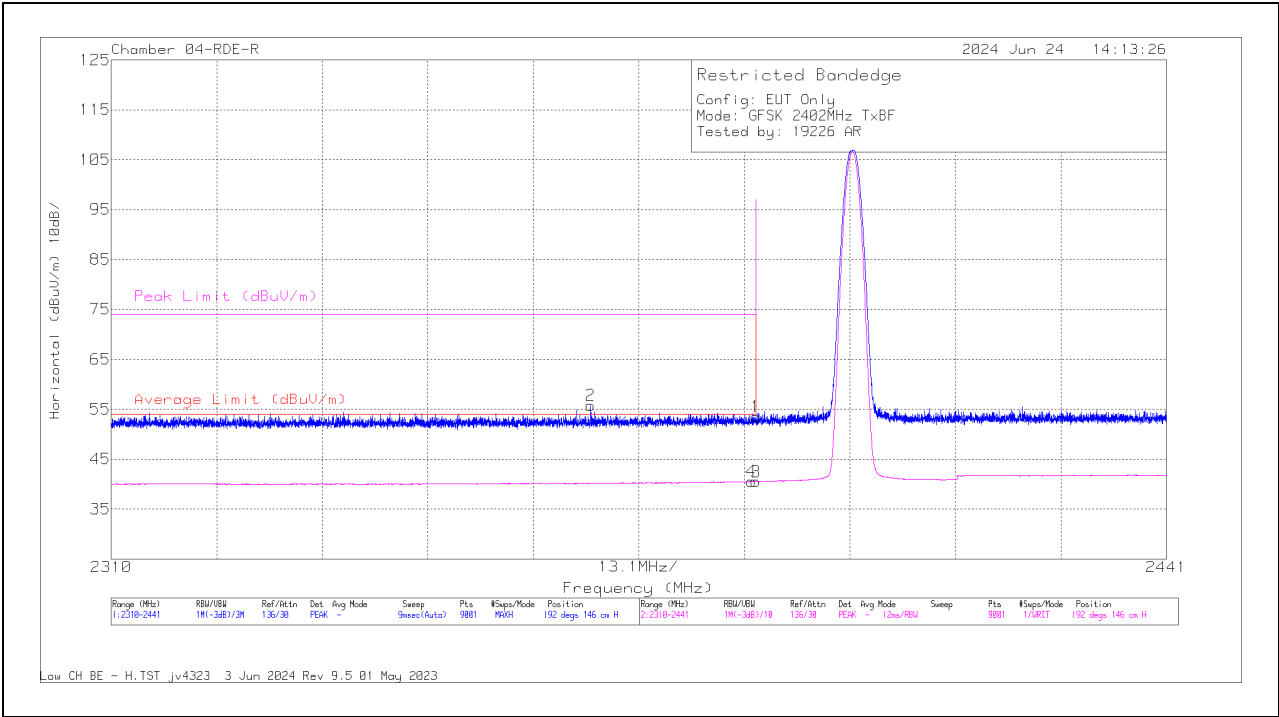


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.19	Pk	32.3	-40.12	53.37	-	-	74	-20.63	127	326	V
3	* 2483.5	49.9	VA1T	32.3	-40.12	42.08	54	-11.92	-	-	127	326	V
2	* 2539.593	63.54	Pk	32.4	-39.94	56	-	-	74	-18	127	326	V
4	* 2553.718	49.79	VA1T	32.3	-39.84	42.25	54	-11.75	-	-	127	326	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.6. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION
BANDEGE (LOW CHANNEL)

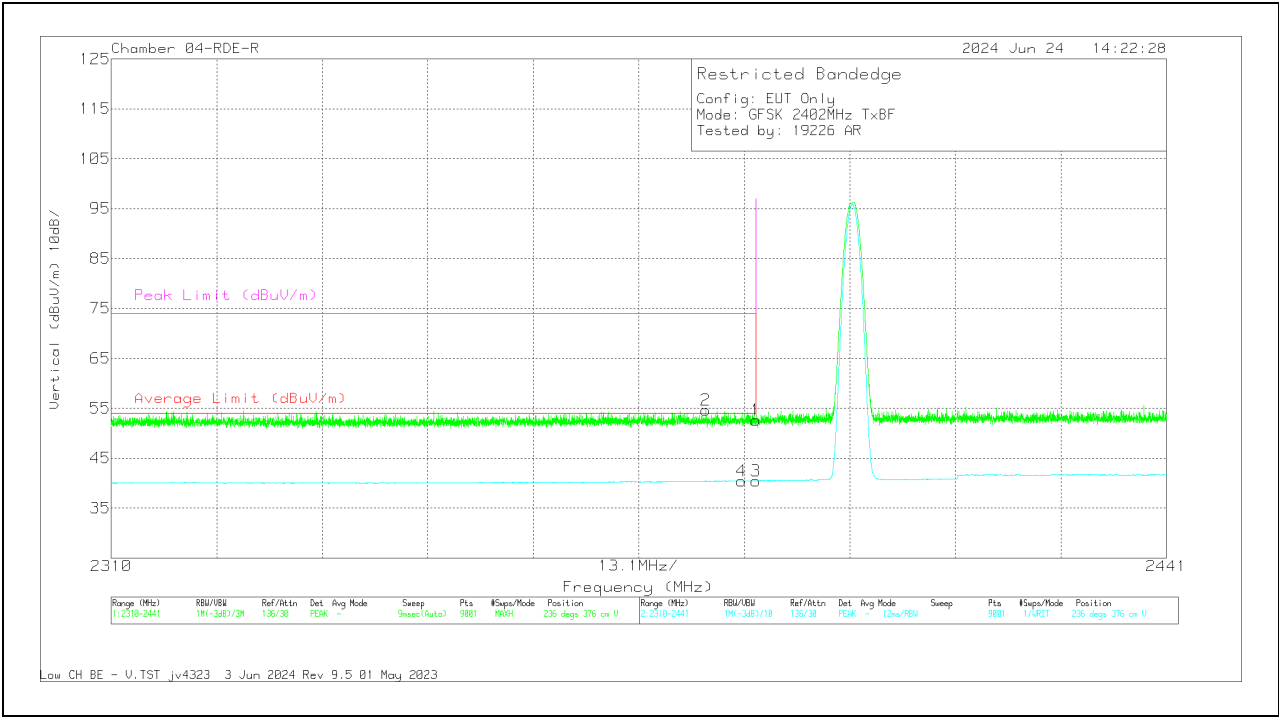
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	4112 ACF (dB/m)	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	* 2369.534	64.45	Pk	31.9	-40.55	55.8	-	-	74	-18.2	192	146	H
4	* 2389.49	48.97	VA1T	32	-40.43	40.54	54	-13.46	-	-	192	146	H
1	* 2390	61.94	Pk	32	-40.44	53.5	-	-	74	-20.5	192	146	H
3	* 2390	48.94	VA1T	32	-40.44	40.5	54	-13.5	-	-	192	146	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

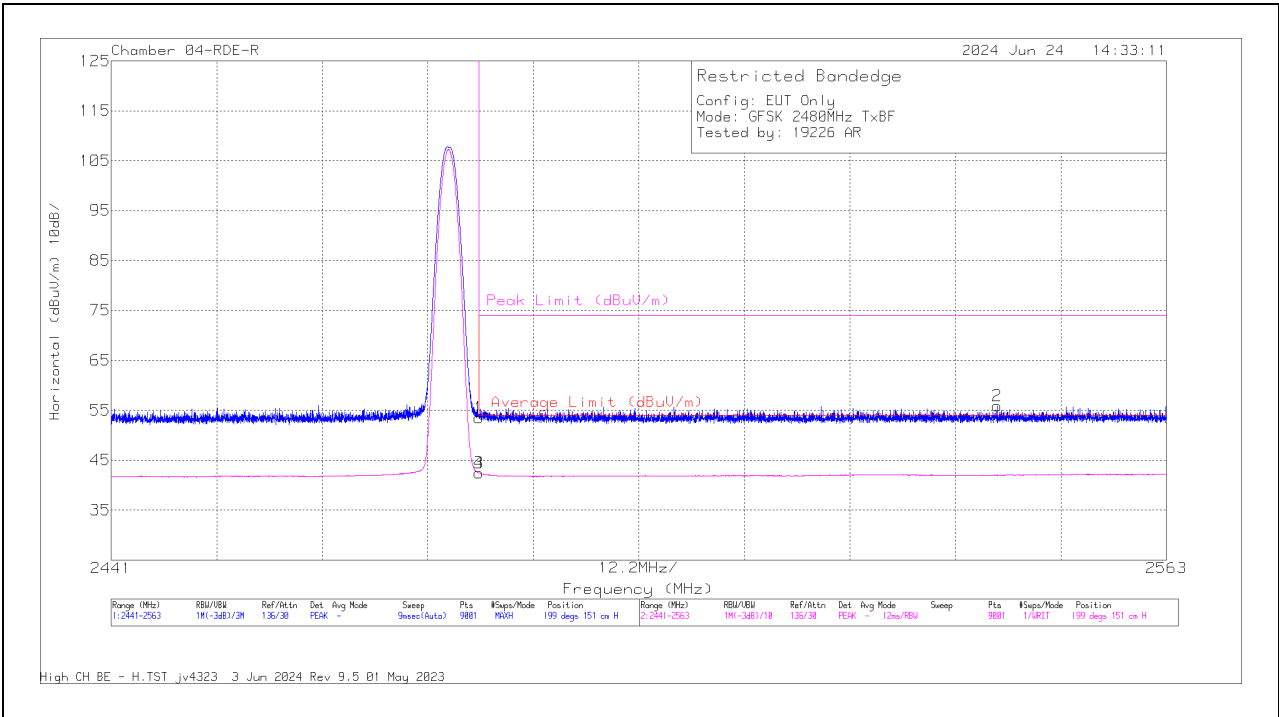


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2383.799	63.16	Pk	31.9	-40.45	54.61	-	-	74	-19.39	236	376	V
4	* 2388.253	48.91	VA1T	32	-40.43	40.48	54	-13.52	-	-	236	376	V
1	* 2390	61.1	Pk	32	-40.44	52.66	-	-	74	-21.34	236	376	V
3	* 2390	48.89	VA1T	32	-40.44	40.45	54	-13.55	-	-	236	376	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



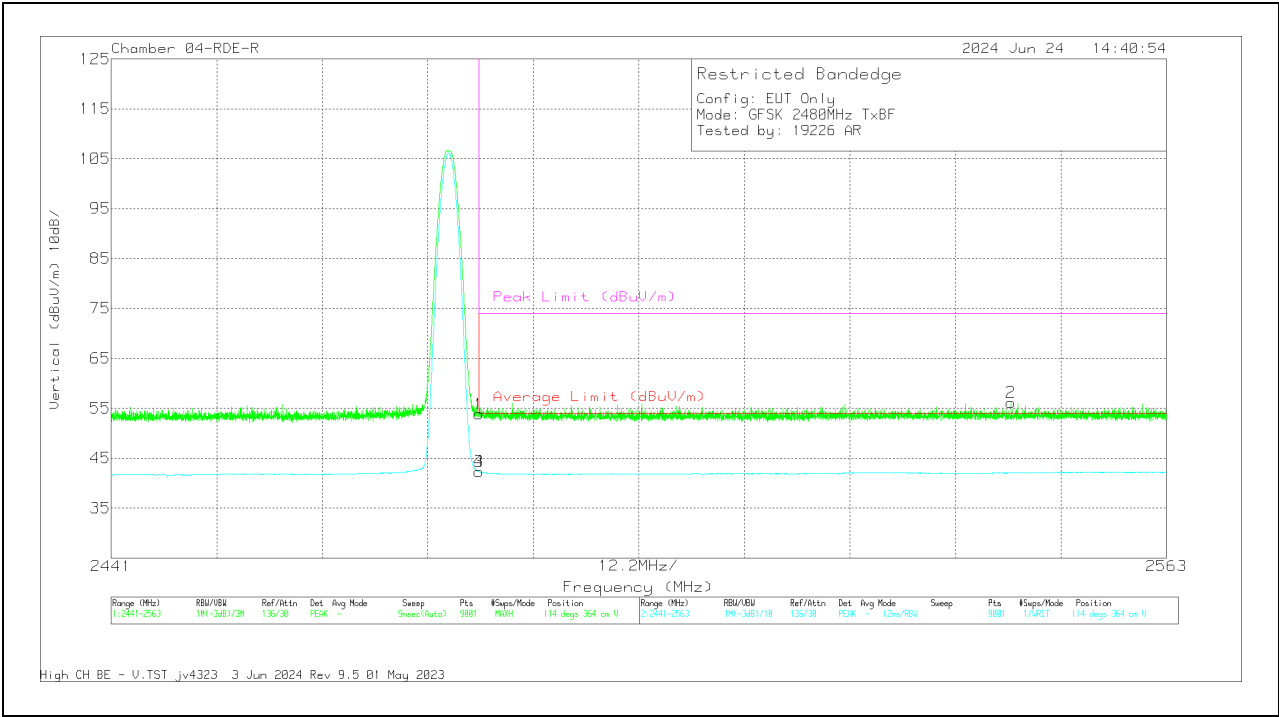
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.36	Pk	32.3	-40.12	53.54	-	-	74	-20.46	199	151	H
3	* 2483.5	50.26	VA1T	32.3	-40.12	42.44	54	-11.56	-	-	199	151	H
4	* 2483.512	50.26	VA1T	32.3	-40.12	42.44	54	-11.56	-	-	199	151	H
2	* 2543.402	63.4	Pk	32.4	-39.93	55.87	-	-	74	-18.13	199	151	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	61.65	Pk	32.3	-40.12	53.83	-	-	74	-20.17	114	364	V
3	* 2483.5	50.13	VA1T	32.3	-40.12	42.31	54	-11.69	-	-	114	364	V
4	* 2483.512	50.12	VA1T	32.3	-40.12	42.3	54	-11.7	-	-	114	364	V
2	* 2545.042	63.63	Pk	32.4	-39.93	56.1	-	-	74	-17.9	114	364	V

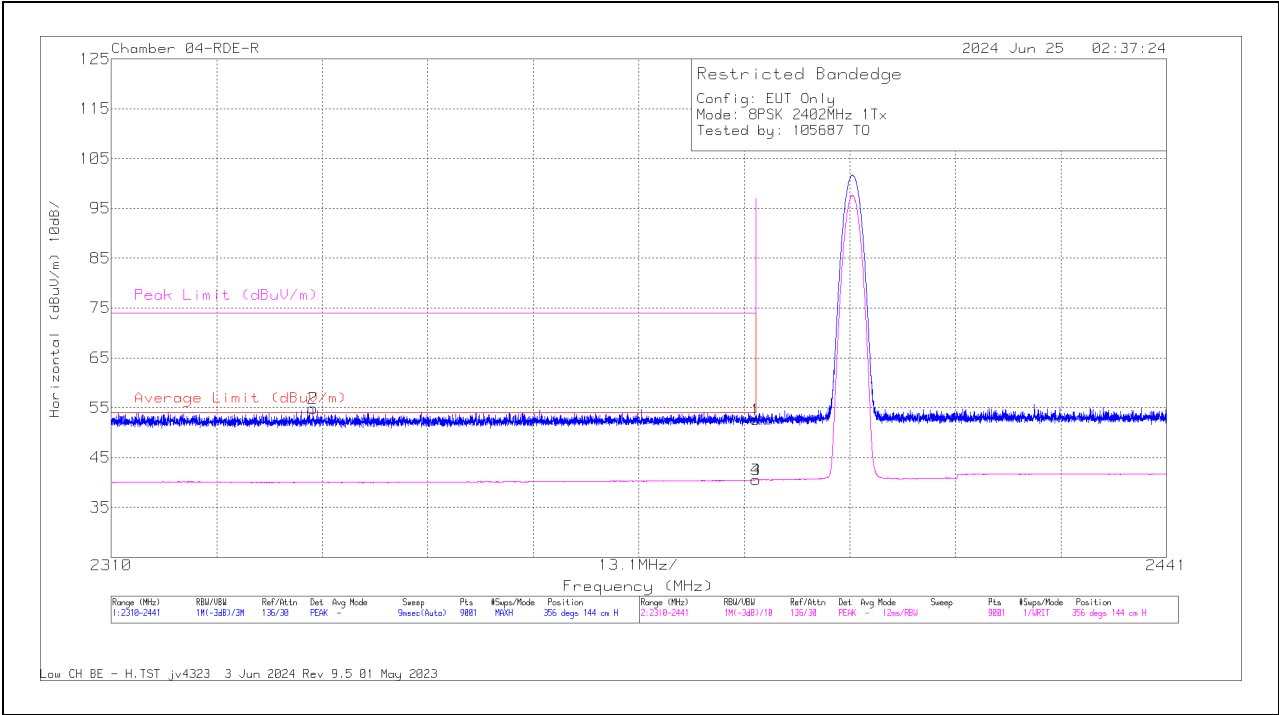
* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.7. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

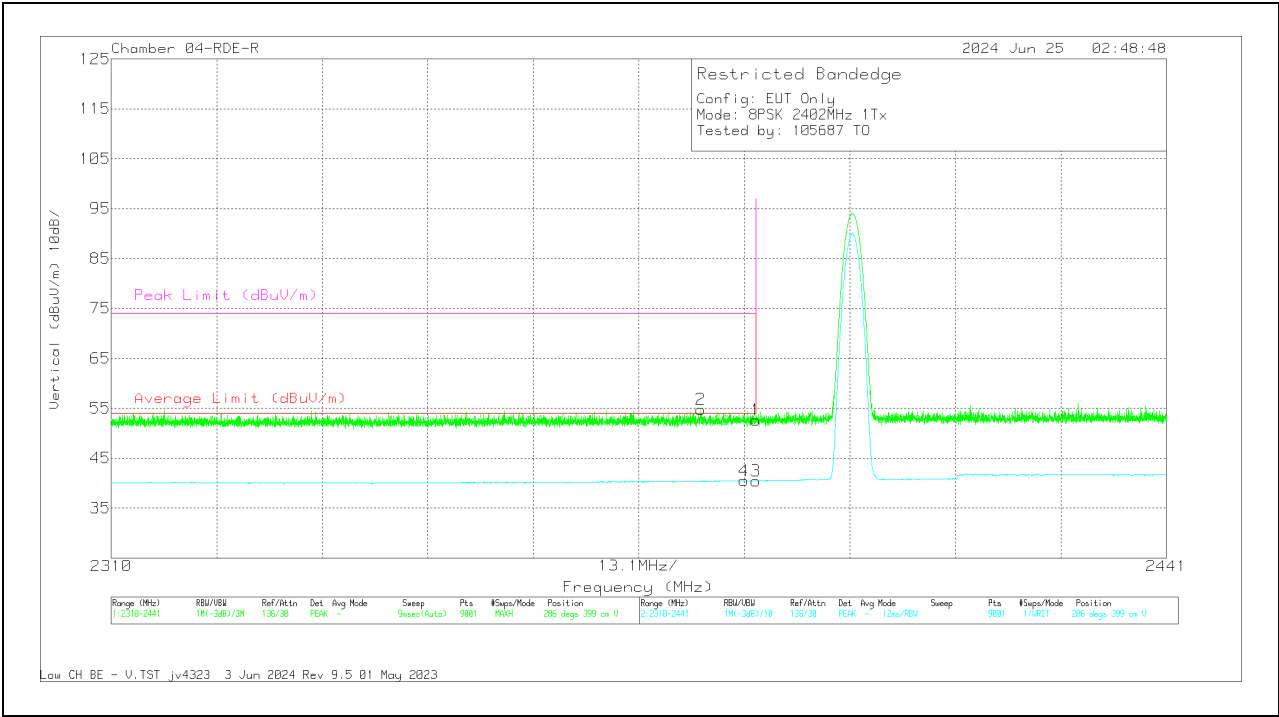
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	* 2335.051	63.59	Pk	31.8	-40.55	54.84	-	-	74	-19.16	356	144	H
1	* 2390	61.01	Pk	32	-40.44	52.57	-	-	74	-21.43	356	144	H
3	* 2390	48.95	VA1T	32	-40.44	40.51	54	-13.49	-	-	356	144	H
4	* 2390	48.95	VA1T	32	-40.44	40.51	54	-13.49	-	-	356	144	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

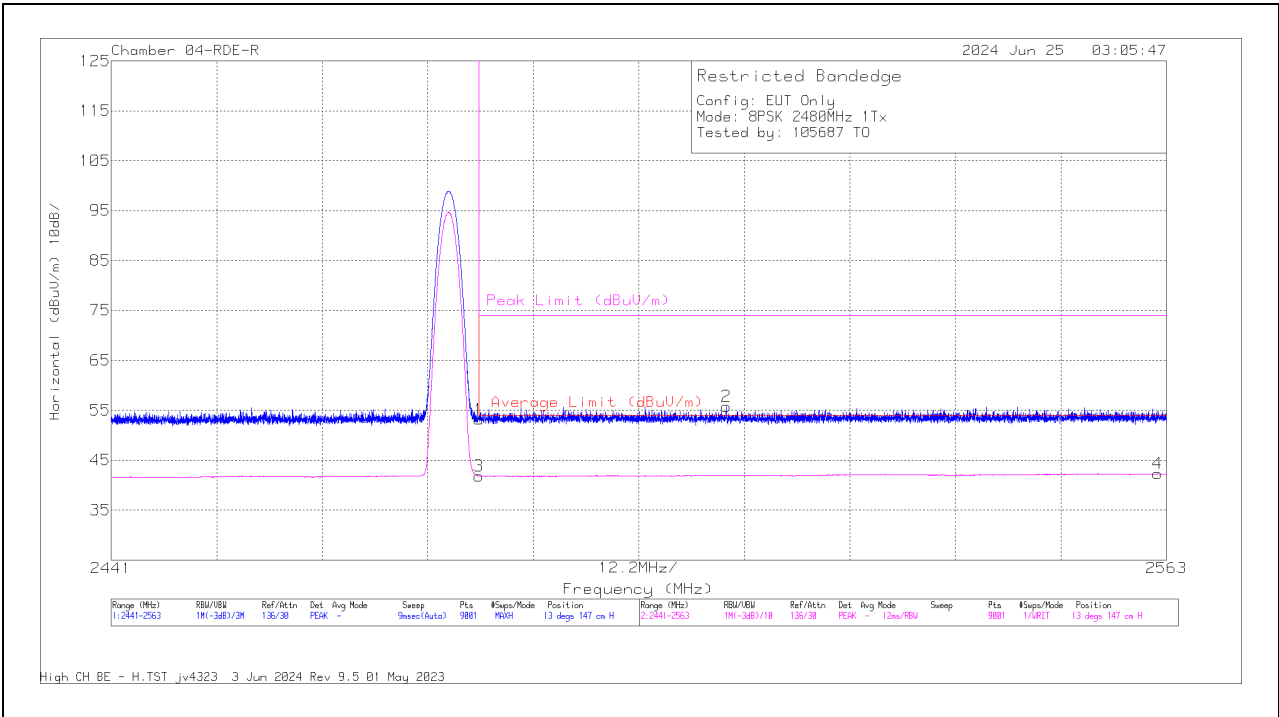


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2383.158	63.33	Pk	31.9	-40.45	54.78	-	-	74	-19.22	286	399	V
4	* 2388.53	48.93	VA1T	32	-40.43	40.5	54	-13.5	-	-	286	399	V
1	* 2390	61.1	Pk	32	-40.44	52.66	-	-	74	-21.34	286	399	V
3	* 2390	48.88	VA1T	32	-40.44	40.44	54	-13.56	-	-	286	399	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



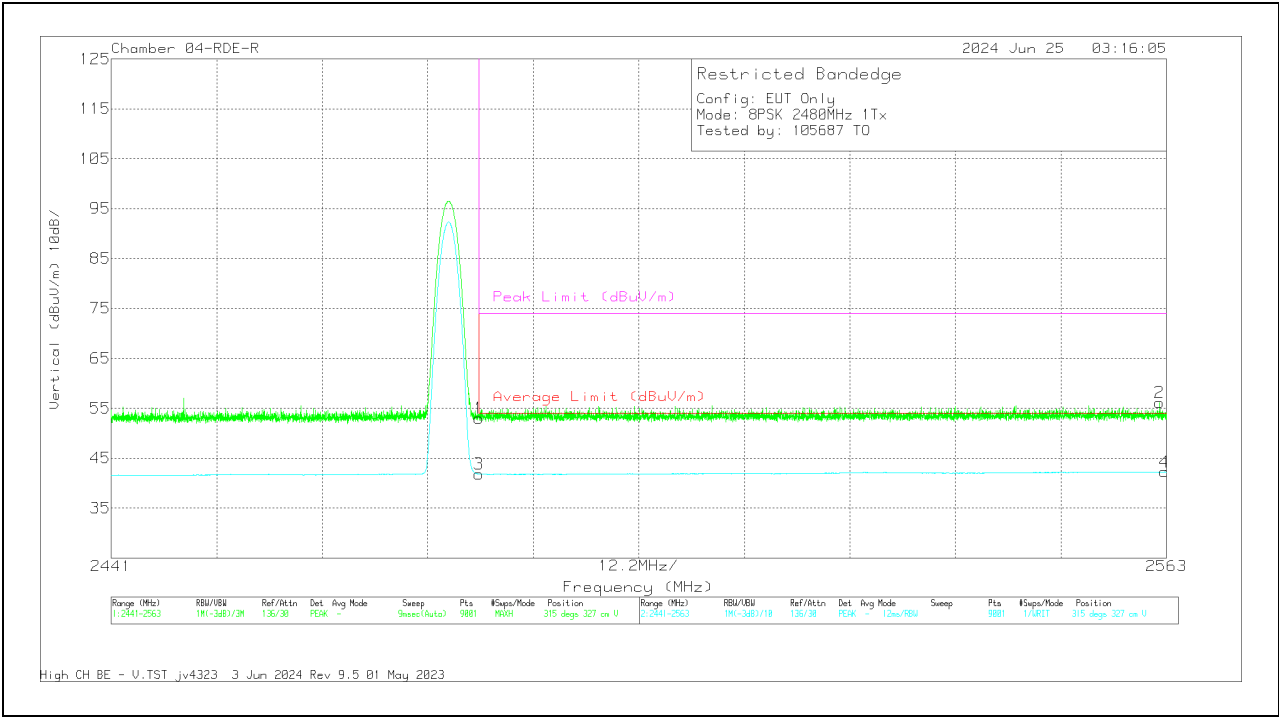
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.01	Pk	32.3	-40.12	53.19	-	-	74	-20.81	13	147	H
3	* 2483.5	49.66	VA1T	32.3	-40.12	41.84	54	-12.16	-	-	13	147	H
2	* 2512.115	63.48	Pk	32.3	-39.97	55.81	-	-	74	-18.19	13	147	H
4	* 2562.014	49.82	VA1T	32.3	-39.84	42.28	54	-11.72	-	-	13	147	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

VERTICAL RESULT



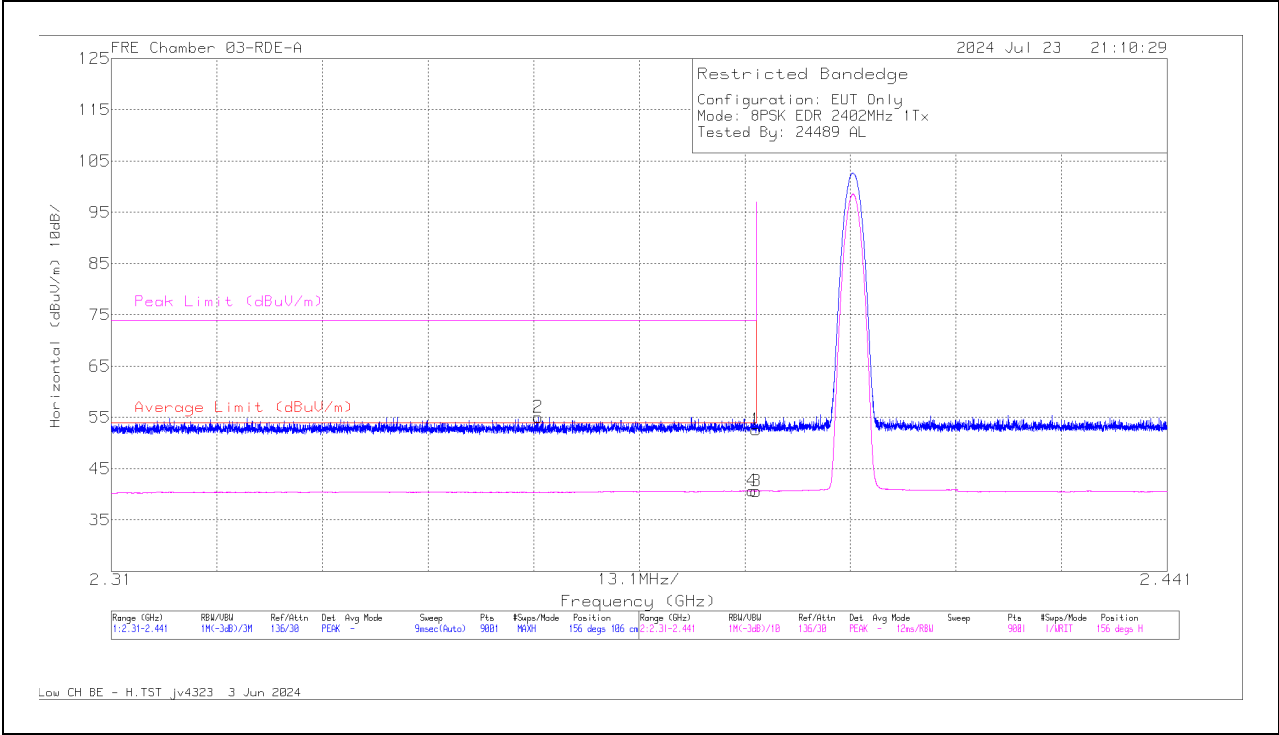
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	60.8	Pk	32.3	-40.12	52.98	-	-	74	-21.02	315	327	V
3	* 2483.5	49.67	VA1T	32.3	-40.12	41.85	54	-12.15	-	-	315	327	V
2	* 2562.204	63.72	Pk	32.3	-39.84	56.18	-	-	74	-17.82	315	327	V
4	* 2562.746	49.79	VA1T	32.3	-39.83	42.26	54	-11.74	-	-	315	327	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 3

BANDEDGE (LOW CHANNEL)

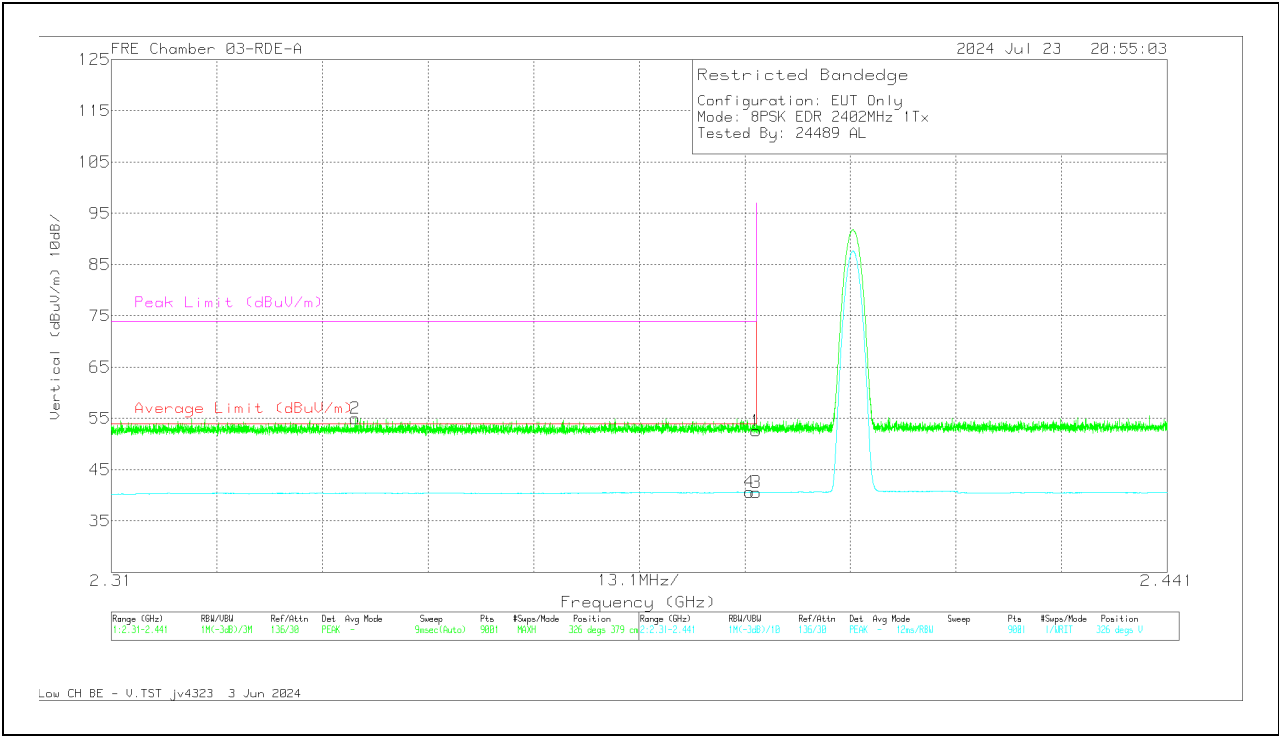
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	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	60.57	Pk	32.1	-40.07	52.6	-	-	74	-21.4	156	106	H
2	* 2.362969	63.2	Pk	32	-40.14	55.06	-	-	74	-18.94	156	106	H
3	* 2.39	48.6	VA1T	32.1	-40.07	40.63	54	-13.37	-	-	156	106	H
4	* 2.389505	48.65	VA1T	32.1	-40.06	40.69	54	-13.31	-	-	156	106	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

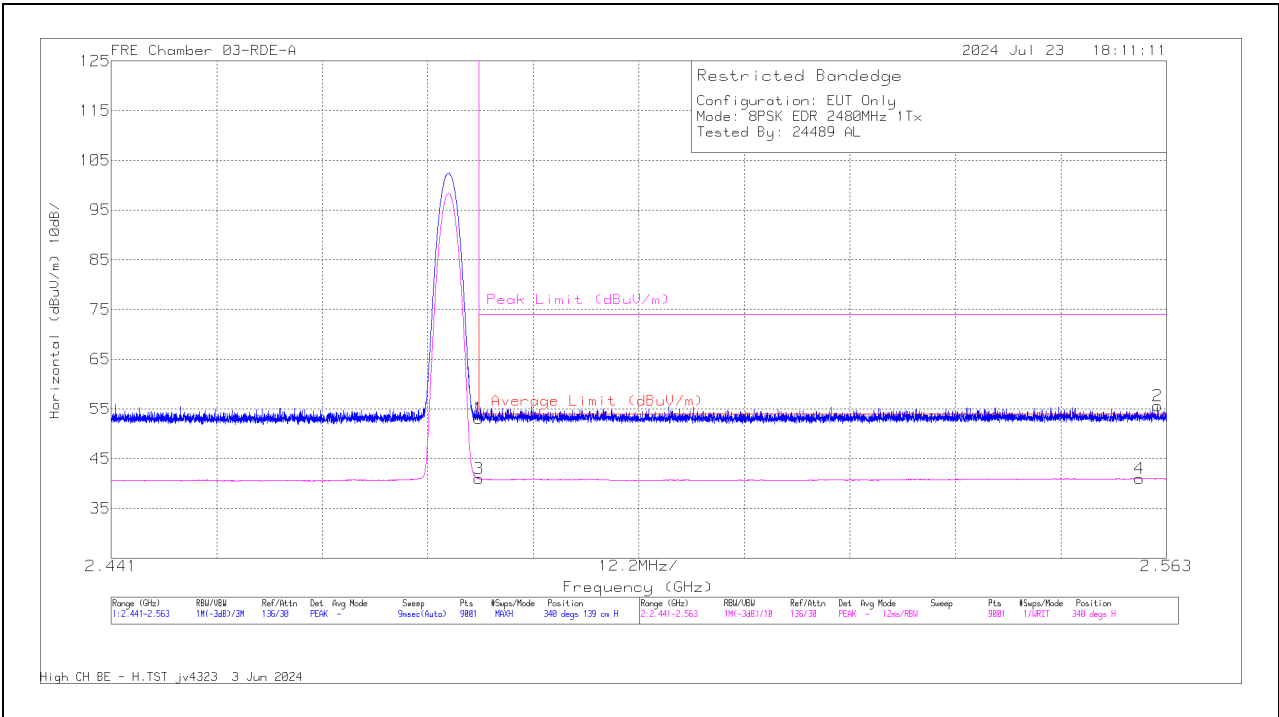


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.54	Pk	32.1	-40.07	52.57	-	-	74	-21.43	326	379	V
2	* 2.340262	63.16	Pk	32	-40.16	55	-	-	74	-19	326	379	V
3	* 2.39	48.54	VA1T	32.1	-40.07	40.57	54	-13.43	-	-	326	379	V
4	* 2.389185	48.59	VA1T	32.1	-40.05	40.64	54	-13.36	-	-	326	379	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

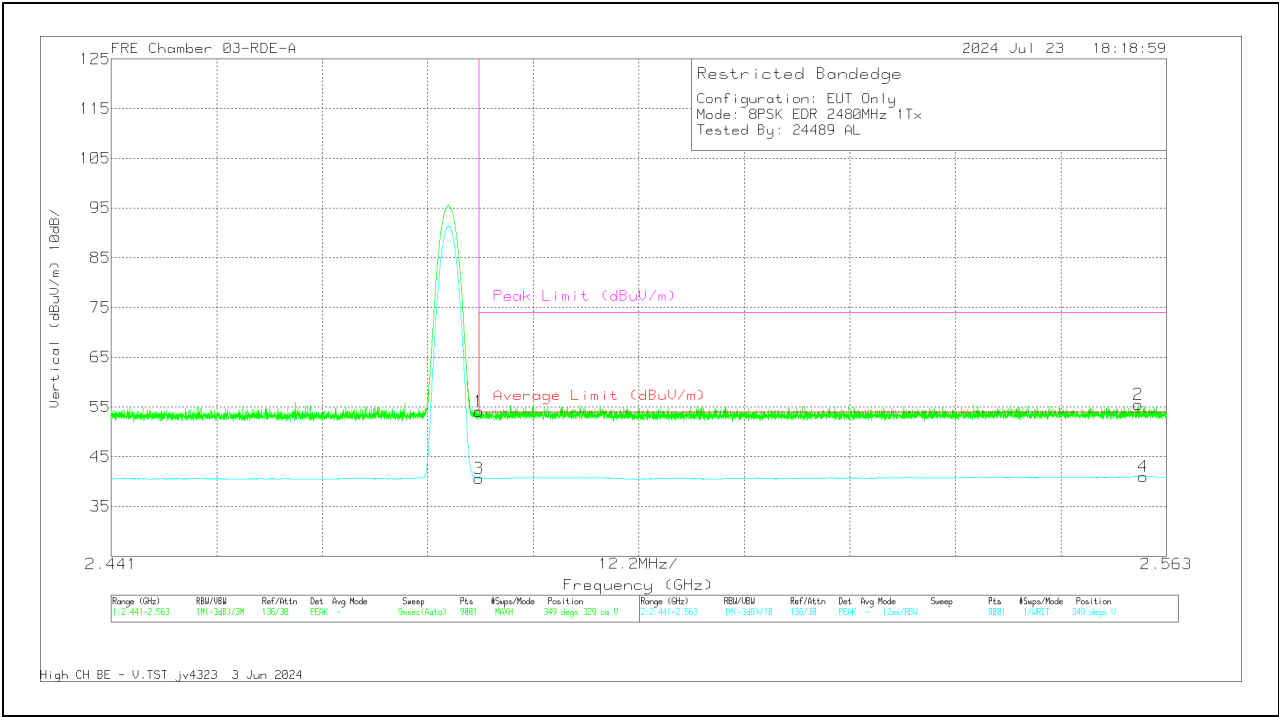
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	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	60.73	Pk	32.2	-39.84	53.09	-	-	74	-20.91	340	139	H
3	* 2.4835	48.64	VA1T	32.2	-39.84	41	54	-13	-	-	340	139	H
4	2.559886	48.38	VA1T	32.2	-39.57	41.01	54	-12.99	-	-	340	139	H
2	2.562014	63.02	Pk	32.2	-39.59	55.63	-	-	74	-18.37	340	139	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



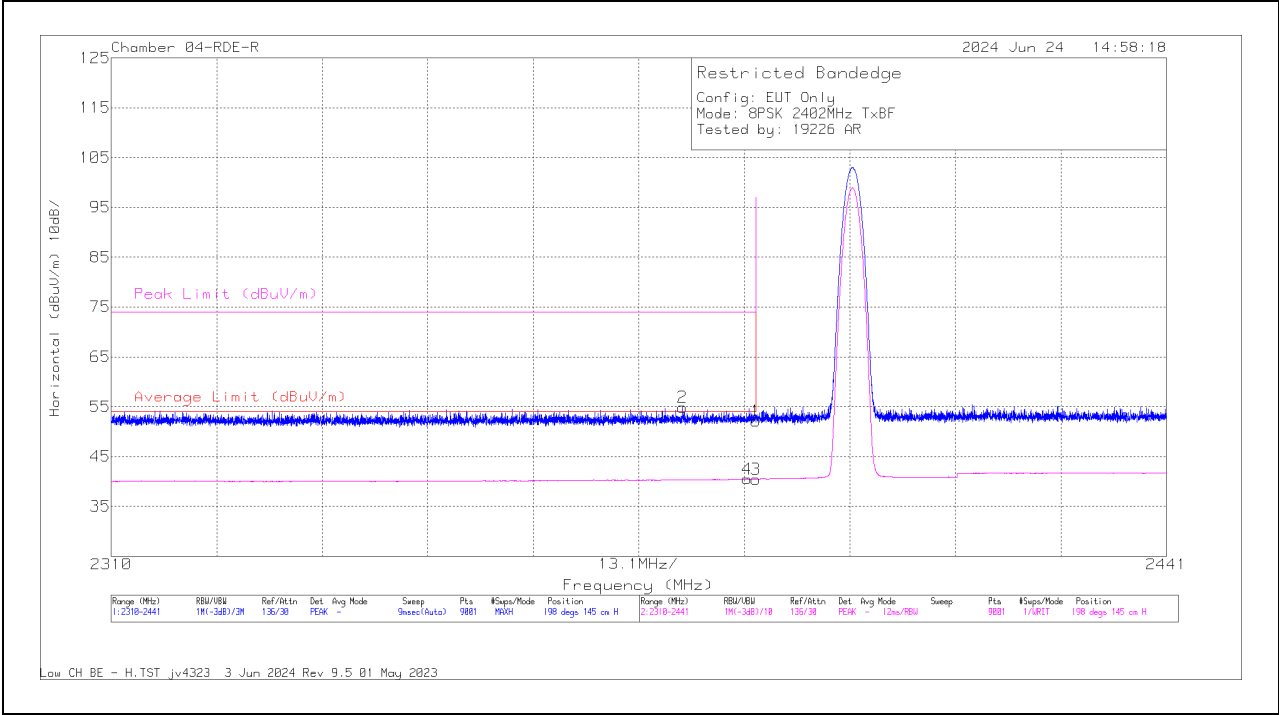
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.8	Pk	32.2	-39.84	54.16	-	-	74	-19.84	349	329	V
3	* 2.4835	48.28	VA1T	32.2	-39.84	40.64	54	-13.36	-	-	349	329	V
2	2.55971	62.91	Pk	32.2	-39.58	55.53	-	-	74	-18.47	349	329	V
4	2.560306	48.37	VA1T	32.2	-39.57	41	54	-13	-	-	349	329	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.8. LOW POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

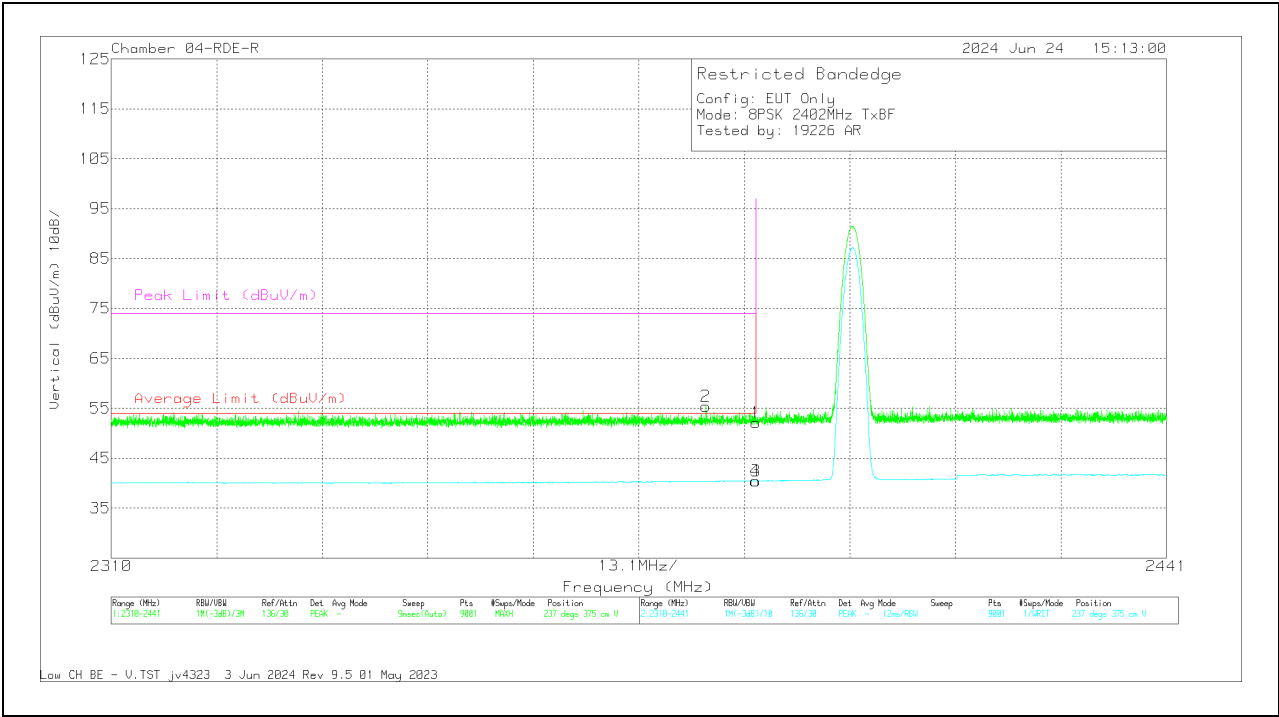
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	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	* 2380.946	63.48	Pk	31.9	-40.46	54.92	-	-	74	-19.08	198	145	H
4	* 2388.966	48.93	VA1T	32	-40.43	40.5	54	-13.5	-	-	198	145	H
1	* 2390	60.59	Pk	32	-40.44	52.15	-	-	74	-21.85	198	145	H
3	* 2390	48.92	VA1T	32	-40.44	40.48	54	-13.52	-	-	198	145	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

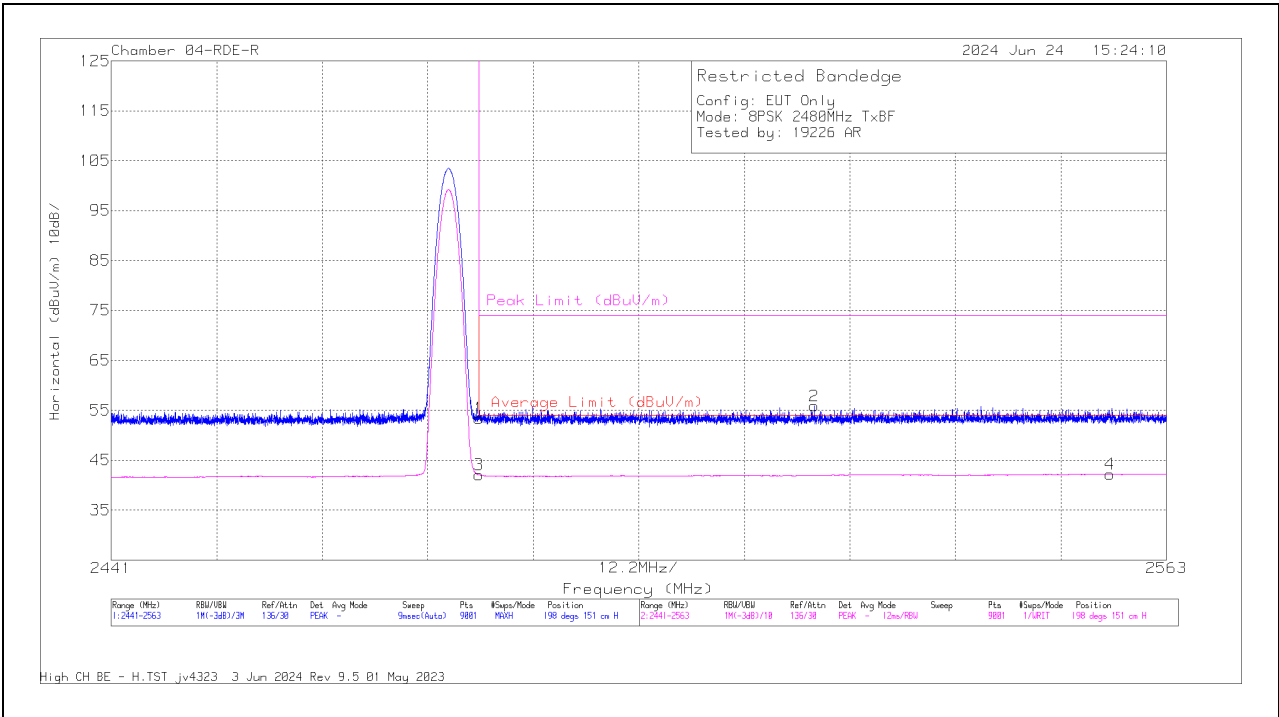


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2383.828	63.9	Pk	31.9	-40.45	55.35	-	-	74	-18.65	237	375	V
4	* 2389.942	48.92	VA1T	32	-40.44	40.48	54	-13.52	-	-	237	375	V
1	* 2390	60.57	Pk	32	-40.44	52.13	-	-	74	-21.87	237	375	V
3	* 2390	48.89	VA1T	32	-40.44	40.45	54	-13.55	-	-	237	375	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



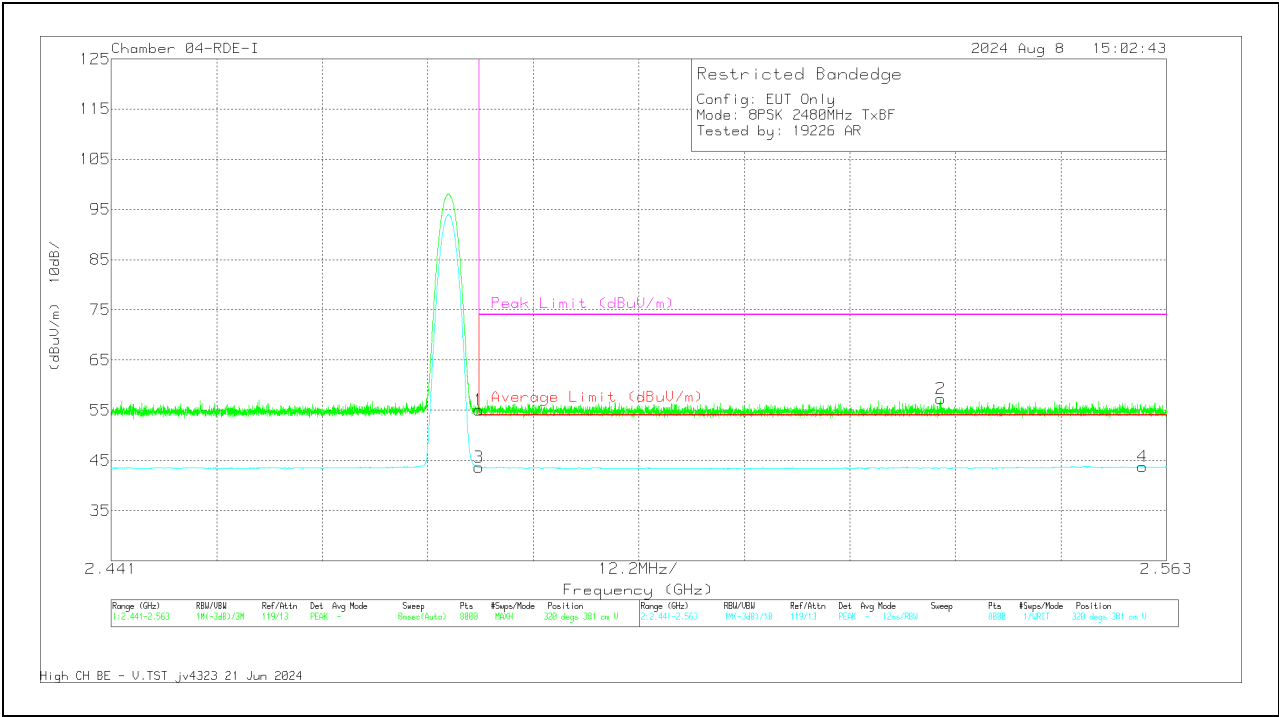
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	61.16	Pk	32.3	-40.12	53.34	-	-	74	-20.66	198	151	H
3	* 2483.5	49.87	VA1T	32.3	-40.12	42.05	54	-11.95	-	-	198	151	H
2	2522.309	63.53	Pk	32.3	-39.99	55.84	-	-	74	-18.16	198	151	H
4	2556.443	49.76	VA1T	32.3	-39.83	42.23	54	-11.77	-	-	198	151	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

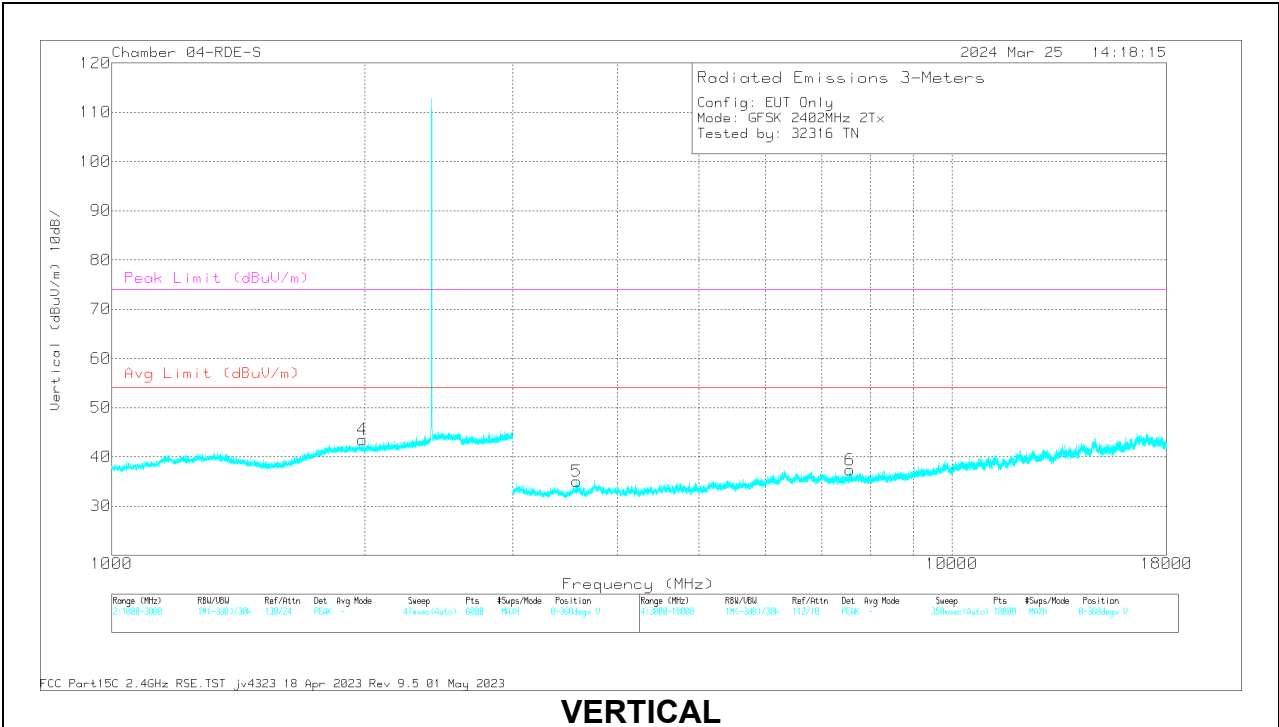
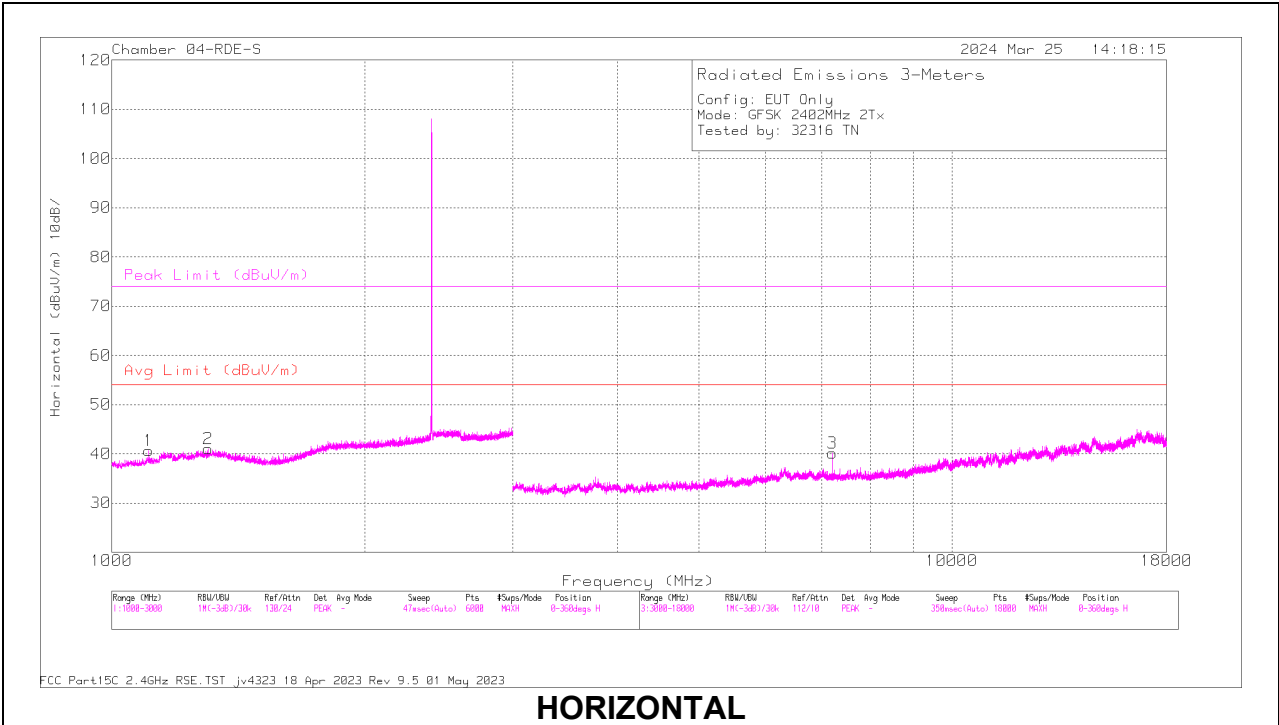
VERTICAL RESULT



* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.9. WORST CASE HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

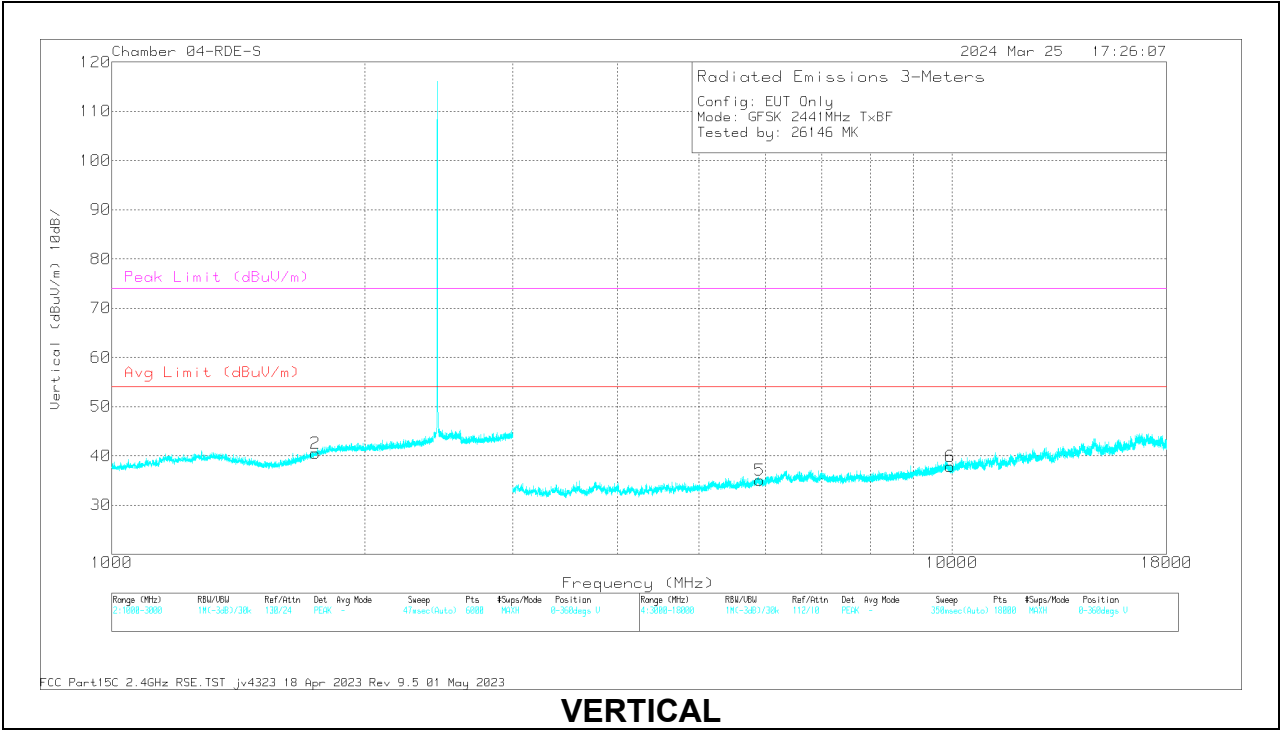
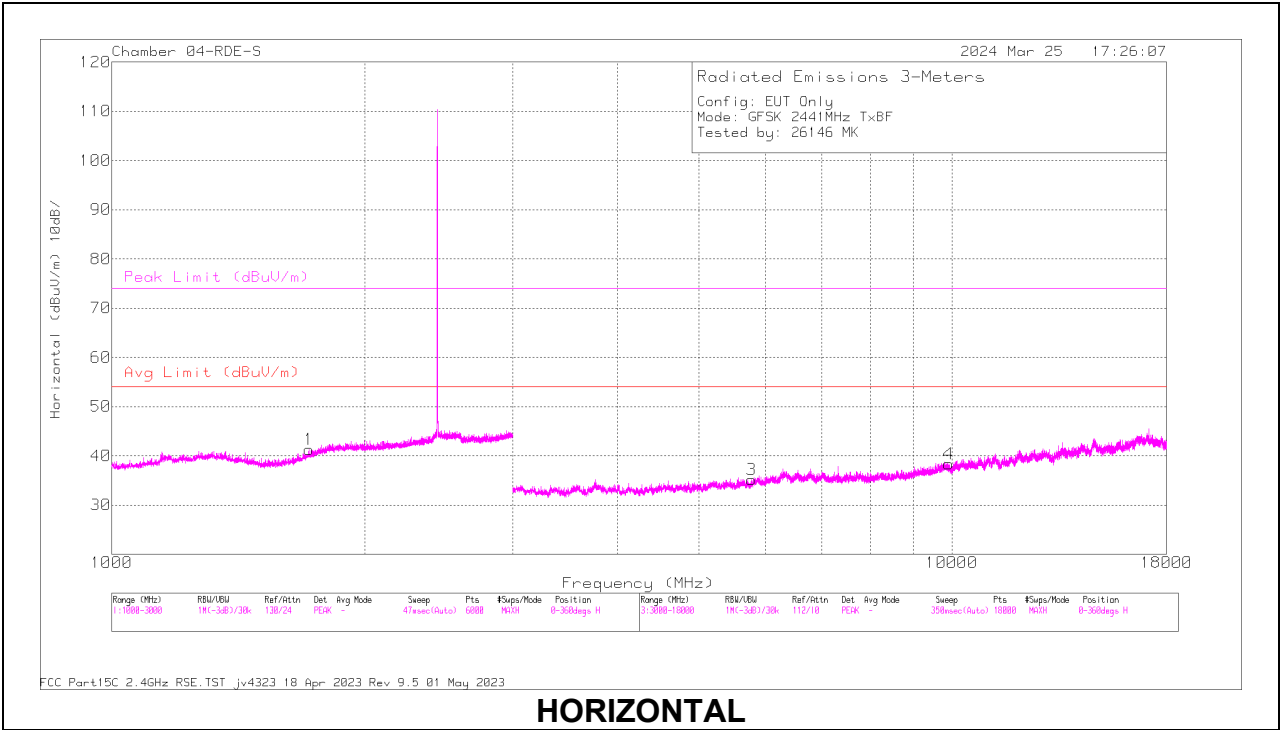
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1102.699	59.26	PKFH	27.9	-40.39	46.77	-	-	74	-27.23	159	189	H
	* 1103.861	46.36	VA1T	27.9	-40.38	33.88	54	-20.12	-	-	159	189	H
2	* 1301.3	59.85	PKFH	28.9	-40.33	48.42	-	-	74	-25.58	346	184	H
	* 1301.907	46.42	VA1T	28.9	-40.33	34.99	54	-19.01	-	-	346	184	H
4	1985.068	46.23	VA1T	31	-40.41	36.82	-	-	-	-	348	224	V
	1987.392	60.25	PKFH	31	-40.41	50.84	-	-	-	-	348	224	V
5	* 3574.921	55.8	PKFH	32.9	-46.43	42.27	-	-	74	-31.73	358	229	V
	* 3574.927	42.16	VA1T	32.9	-46.43	28.63	54	-25.37	-	-	358	229	V
3	7205.352	56.54	PKFH	35.8	-45.85	46.49	-	-	-	-	277	103	H
	7205.98	46.26	VA1T	35.8	-45.84	36.22	-	-	-	-	277	103	H
6	* 7558.963	53.97	PKFH	35.8	-45.53	44.24	-	-	74	-29.76	53	139	V
	* 7559.117	40.81	VA1T	35.8	-45.53	31.08	54	-22.92	-	-	53	139	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

MID CHANNEL RESULTS

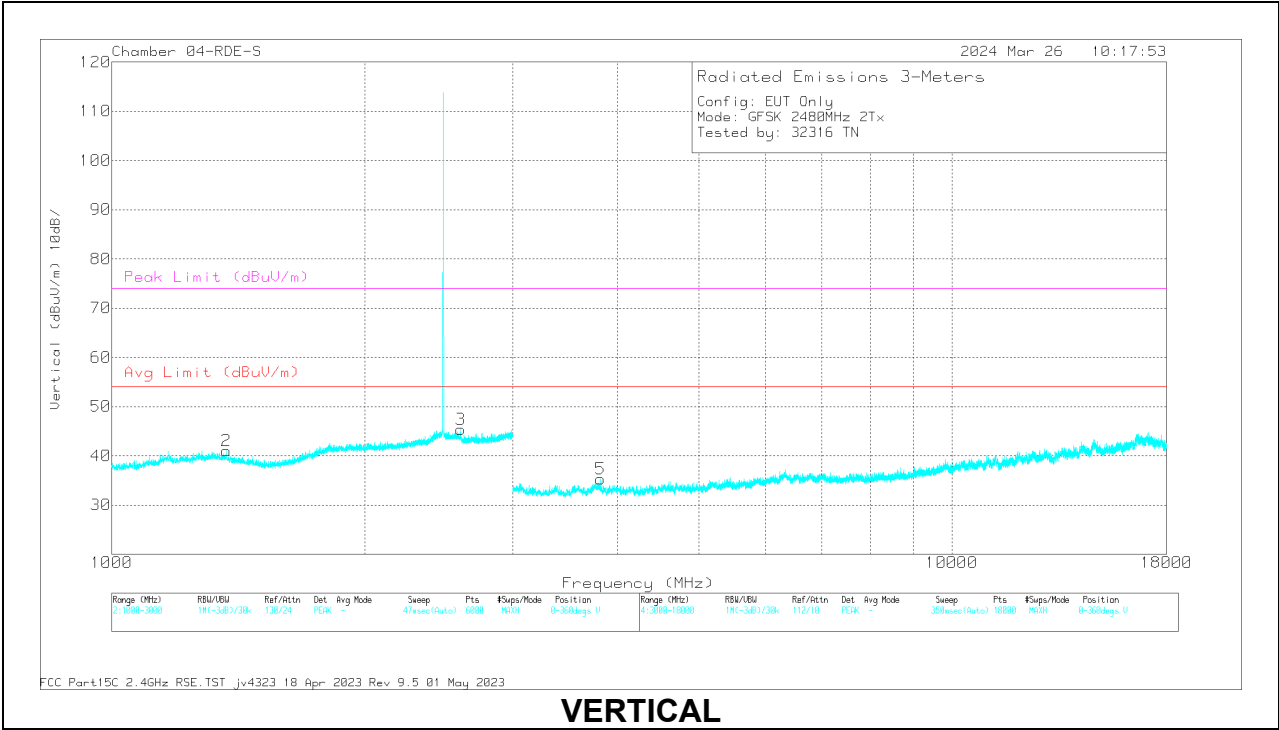
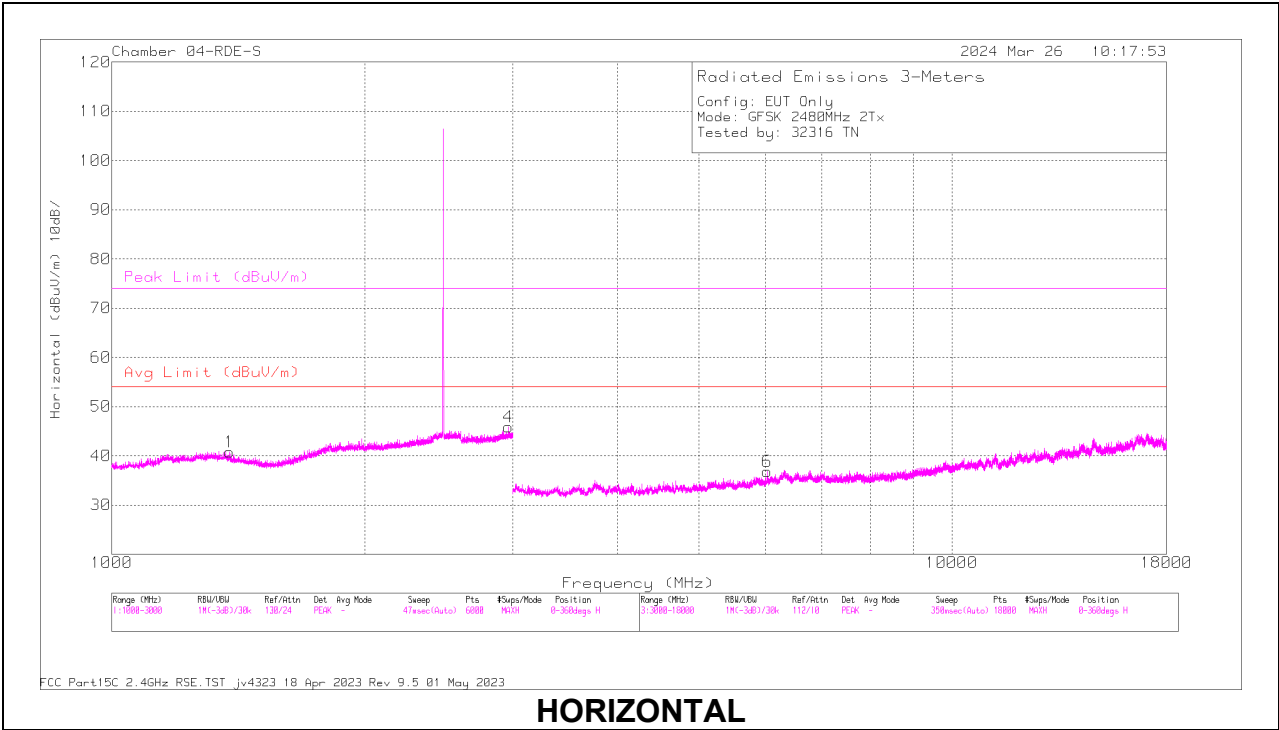


RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB/m)	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
1	1716.506	46.11	VA1T	29.5	-40.22	35.39	-	-	-	-	360	100	H
	1717.023	58.9	PKFH	29.5	-40.22	48.18	-	-	-	-	360	100	H
2	1746.467	59.32	PKFH	29.9	-40.25	48.97	-	-	-	-	360	200	V
	1746.7	45.8	VA1T	29.9	-40.25	35.45	-	-	-	-	360	200	V
3	5774.33	41.01	VA1T	34.9	-46.18	29.73	-	-	-	-	360	100	H
	5774.86	54.32	PKFH	34.9	-46.16	43.06	-	-	-	-	360	100	H
4	5903.033	54.53	PKFH	35.1	-45.91	43.72	-	-	-	-	360	201	V
	5903.133	40.91	VA1T	35.1	-45.91	30.1	-	-	-	-	360	201	V
5	9907.748	40.22	VA1T	37.1	-44.47	32.85	-	-	-	-	360	100	H
	9908.744	53.27	PKFH	37.1	-44.5	45.87	-	-	-	-	360	100	H
6	9955.392	53.33	PKFH	37.2	-44.87	45.66	-	-	-	-	360	200	V
	9956.606	40.21	VA1T	37.2	-44.9	32.51	-	-	-	-	360	200	V

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB/m)	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	* 1371.673	46.26	VA1T	28.7	-40.2	34.76	54	-19.24	-	-	190	216	V
	* 1372.549	59.4	PKFH	28.7	-40.19	47.91	-	-	74	-26.09	190	216	V
1	* 1381.211	46.24	VA1T	28.7	-40.19	34.75	54	-19.25	-	-	128	297	H
	* 1382.315	59.66	PKFH	28.7	-40.17	48.19	-	-	74	-25.81	128	297	H
4	2603.063	45.66	VA1T	32.2	-39.73	38.13	-	-	-	-	15	371	V
	2604.118	59.68	PKFH	32.2	-39.74	52.14	-	-	-	-	15	371	V
3	2963.255	45.09	VA1T	32.7	-38.73	39.06	-	-	-	-	186	279	H
	2963.967	58.59	PKFH	32.7	-38.72	52.57	-	-	-	-	186	279	H
6	* 3815.427	41.82	VA1T	33.5	-46.51	28.81	54	-25.19	-	-	16	165	V
	* 3816.726	55.34	PKFH	33.5	-46.52	42.32	-	-	74	-31.68	16	165	V
5	6027.204	40.69	VA1T	35.3	-45.5	30.49	-	-	-	-	349	363	H
	6029.216	53.25	PKFH	35.3	-45.52	43.03	-	-	-	-	349	363	H

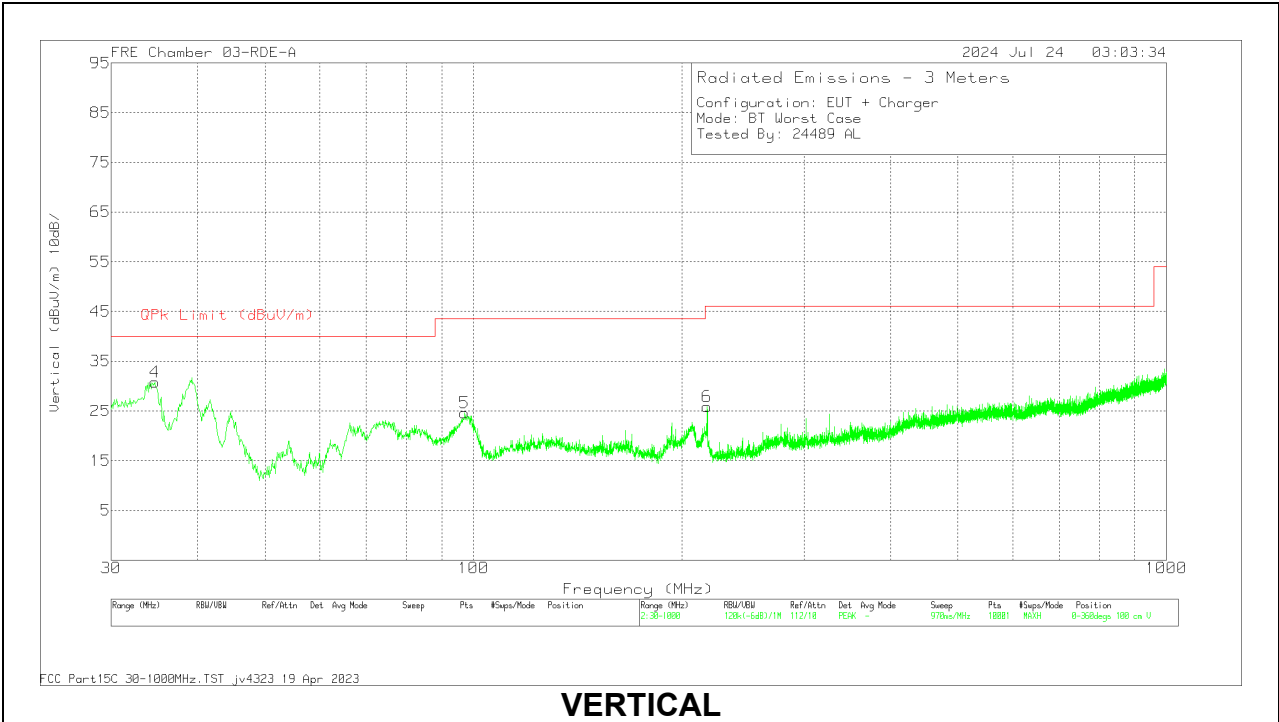
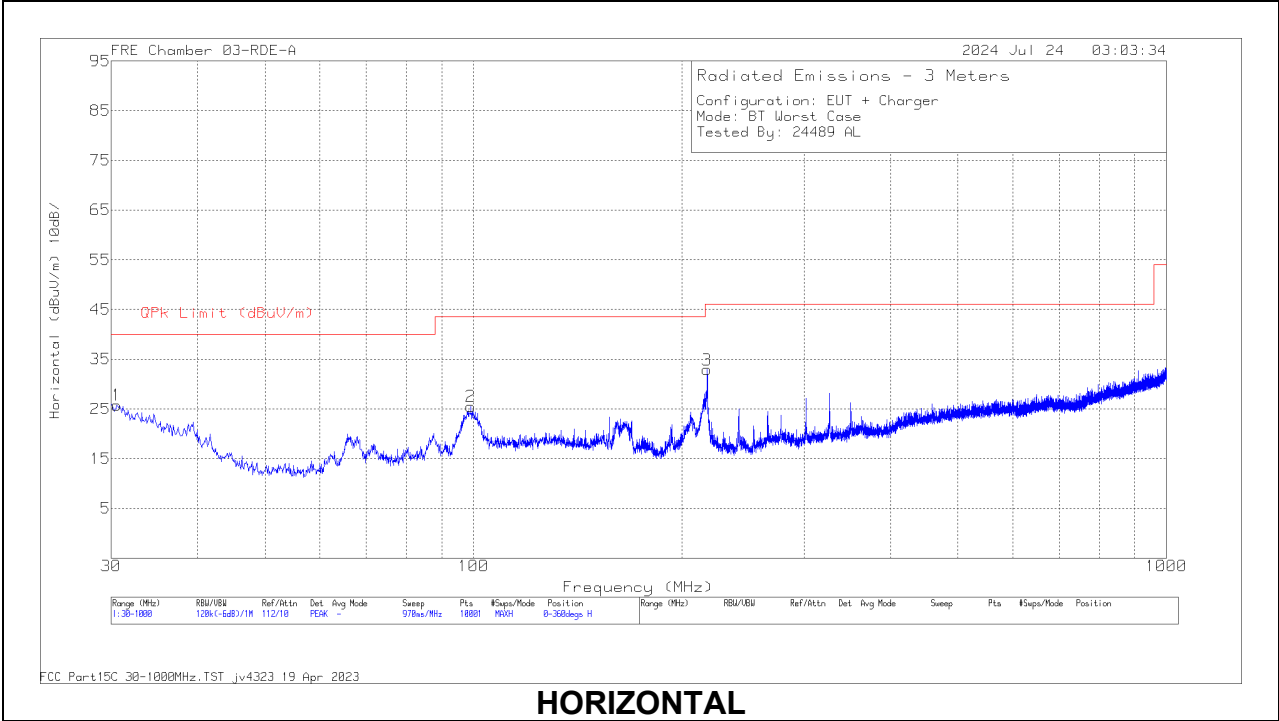
* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

10.2. WORST CASE BELOW 1 GHz

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



Below 1GHz DATA

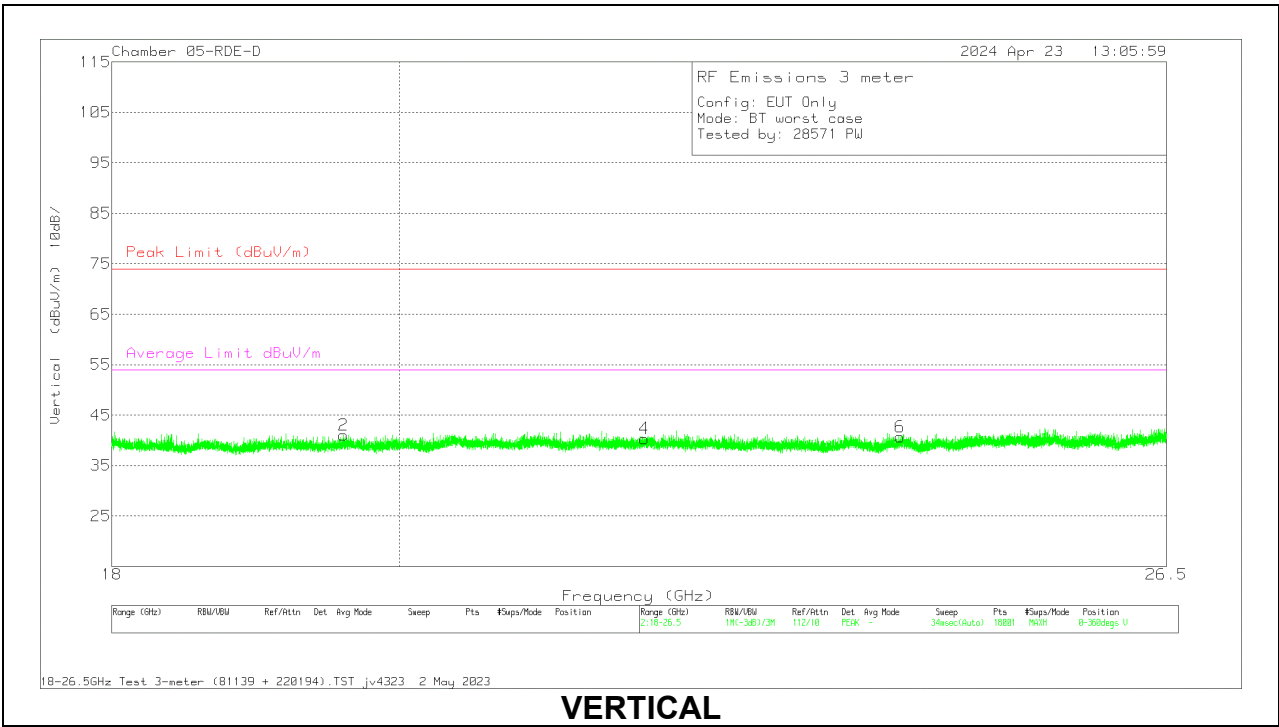
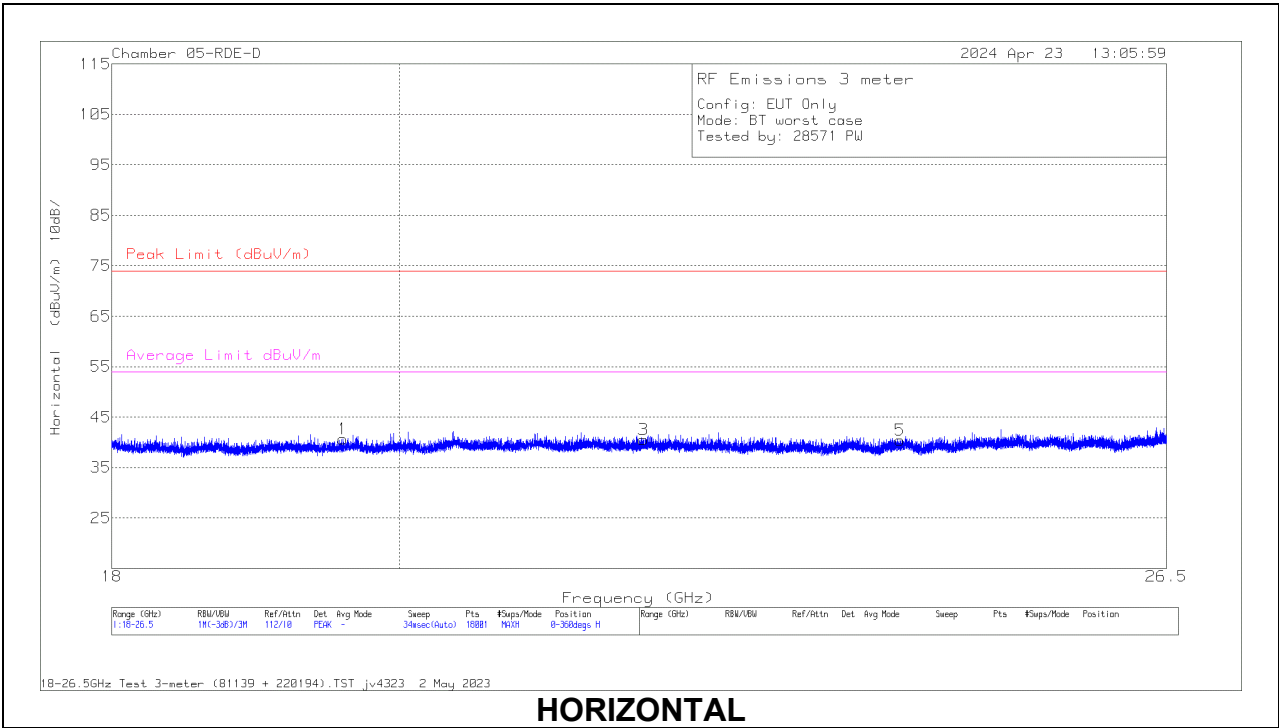
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80813 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.582	30.51	Pk	26.3	-31.1	25.71	40	-14.29	0-360	399	H
4	34.656	38.34	Pk	23.5	-31	30.84	40	-9.16	0-360	100	V
	34.5782	35.18	Qp	23.5	-31	27.68	40	-12.32	151	102	V
5	97.124	39.42	Pk	15.5	-30.3	24.62	43.52	-18.9	0-360	100	V
2	99.161	39.71	Pk	16.1	-30.3	25.51	43.52	-18.01	0-360	298	H
3	217.307	45.98	Pk	16.4	-29.5	32.88	46.02	-13.14	0-360	97	H
6	217.307	38.95	Pk	16.4	-29.5	25.85	46.02	-20.17	0-360	100	V

Pk - Peak detector

Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHz

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



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81139 ACF (dB/m)	Amp/Cbl (dB)	Cables (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.591388	56.18	Pk	33.1	-61.7	13.1	40.68	54	-13.32	0-360	200	H
2	19.598944	56.49	Pk	33.1	-61.7	13.1	40.99	54	-13.01	0-360	101	V
3	21.875054	54.27	Pk	33.5	-61.1	13.9	40.57	54	-13.43	0-360	200	H
4	21.884498	54.05	Pk	33.5	-61.1	13.9	40.35	54	-13.65	0-360	101	V
5	24.034053	54.77	Pk	34	-63	14.6	40.37	54	-13.63	0-360	200	H
6	24.034525	55.04	Pk	34	-63	14.6	40.64	54	-13.36	0-360	101	V

Pk - Peak detector

Note: since the peak signals are passing the AVG limit then there was no need to take average readings for those signals.

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.

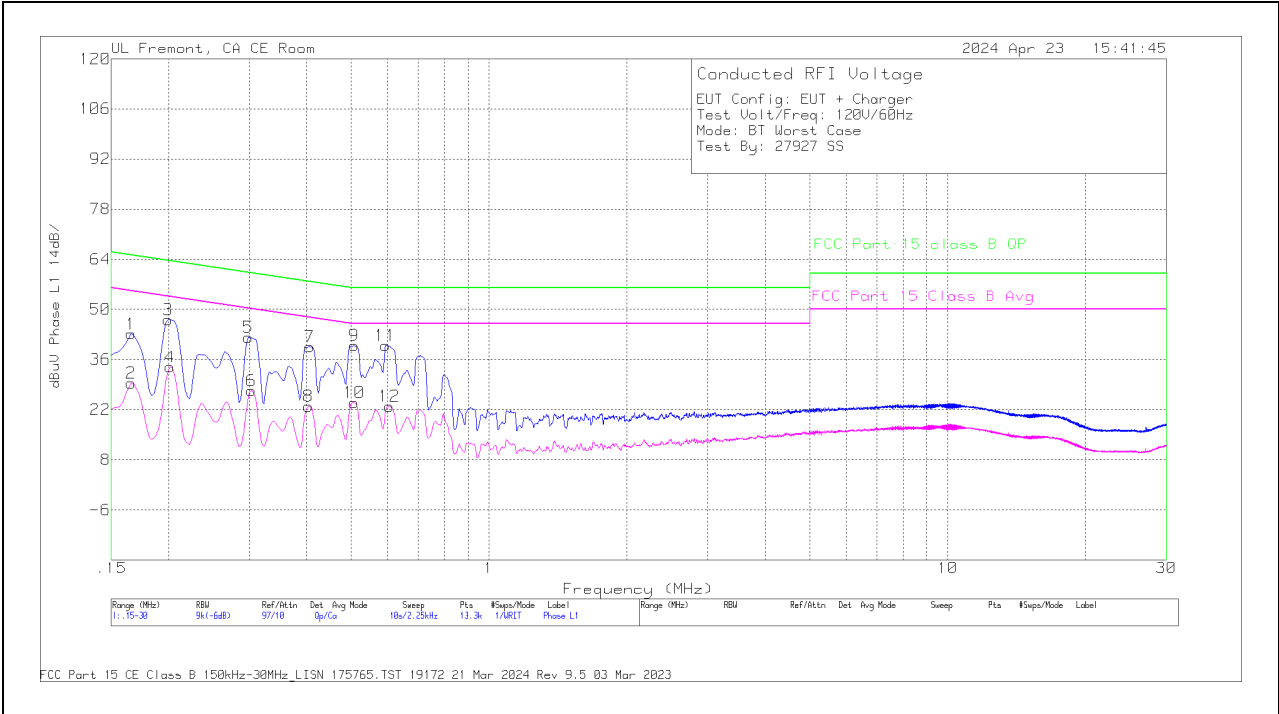
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC POWER LINE WITH AC/DC ADAPTER

LINE 1 RESULTS



DATA

Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	Cbl (dB)	LISN (dB)	Trns Limiter (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	.1658	9.74	Ca	0	.1	9.5	10	29.34	55.17	-25.83	-	-
4	.2018	14.38	Ca	.1	0	9.4	10	33.88	53.54	-19.66	-	-
6	.303	7.85	Ca	.1	0	9.4	10	27.35	50.16	-22.81	-	-
8	.4043	3.51	Ca	0	0	9.4	10	22.91	47.77	-24.86	-	-
10	.5078	4.71	Ca	0	0	9.3	10	24.01	46	-21.99	-	-
12	.6068	3.55	Ca	0	0	9.4	10	22.95	46	-23.05	-	-
1	.1658	23.56	Qp	0	.1	9.5	10	43.16	-	-	65.17	-22.01
3	.1995	27.54	Qp	.1	.1	9.4	10	47.14	-	-	63.63	-16.49
5	.2985	22.69	Qp	.1	0	9.4	10	42.19	-	-	60.28	-18.09
7	.4065	20.18	Qp	0	0	9.4	10	39.58	-	-	57.72	-18.14
9	.5078	20.57	Qp	0	0	9.3	10	39.87	-	-	56	-16.13
11	.5955	20.48	Qp	0	0	9.4	10	39.88	-	-	56	-16.12

Qp - Quasi-Peak detector
Ca - CISPR average detection