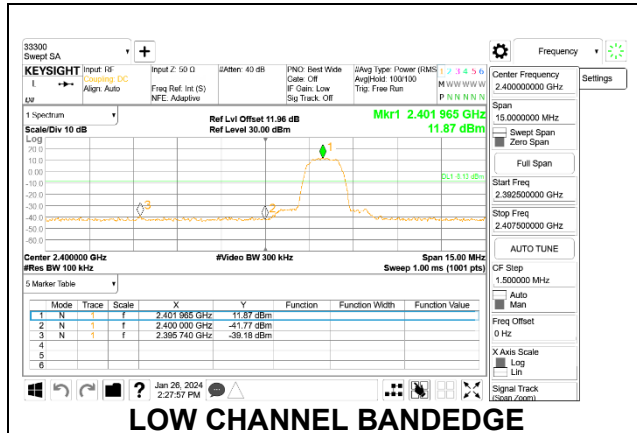
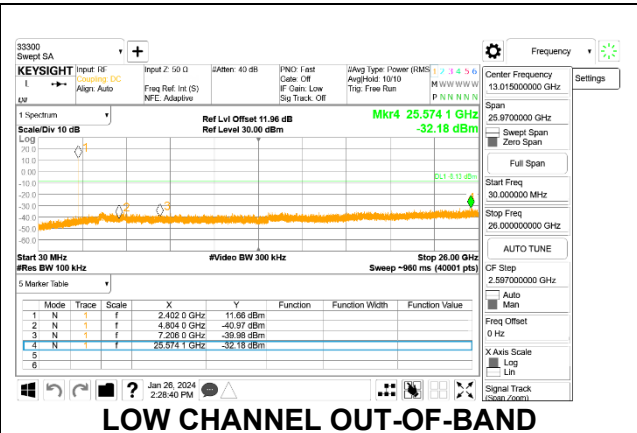


9.9.4. HIGH POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

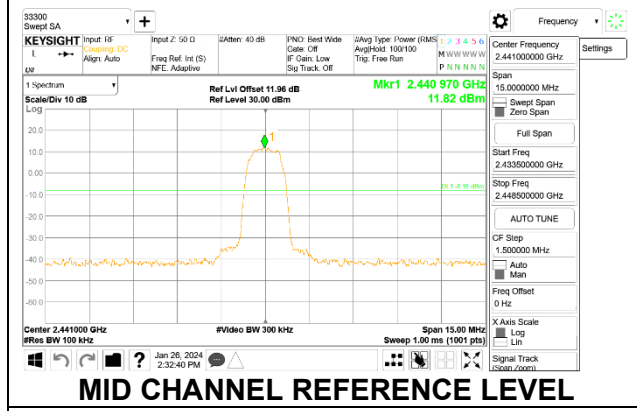
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



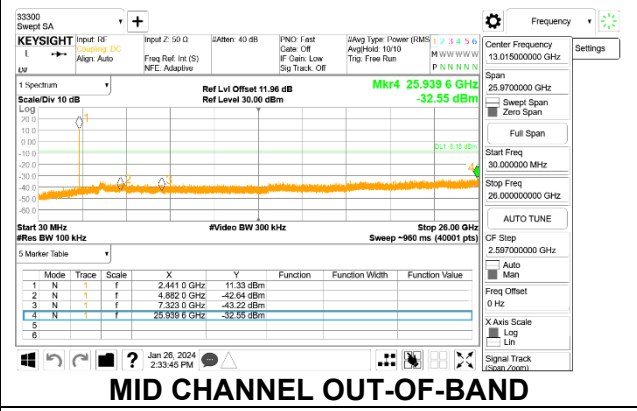
LOW CHANNEL BANDEDGE



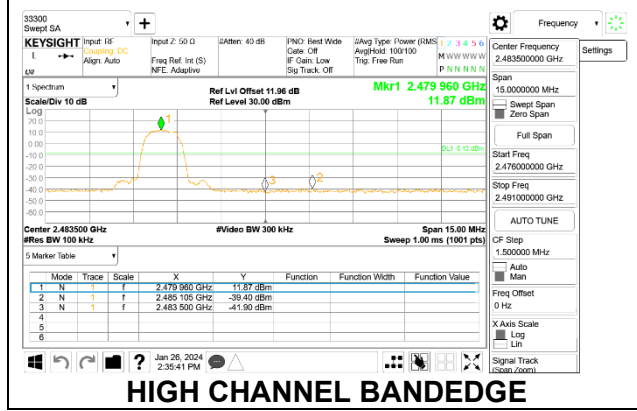
LOW CHANNEL OUT-OF-BAND



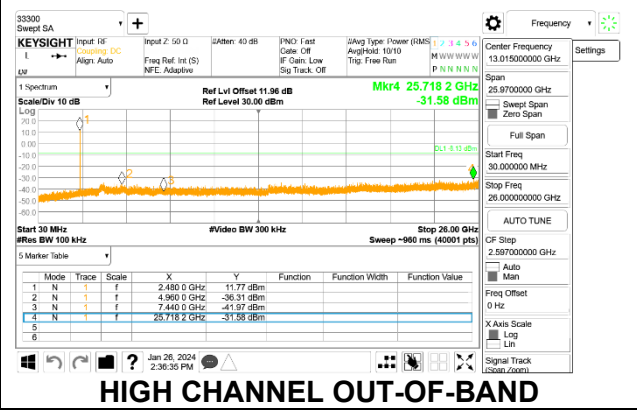
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

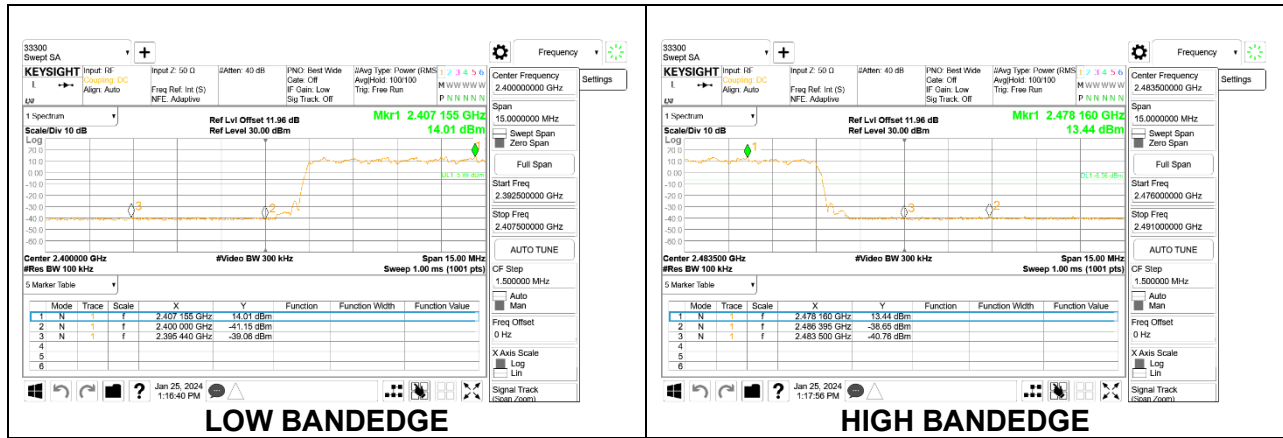


HIGH CHANNEL BANDEDGE

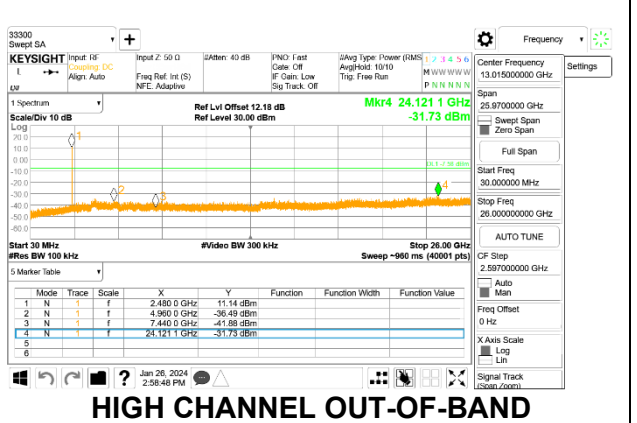
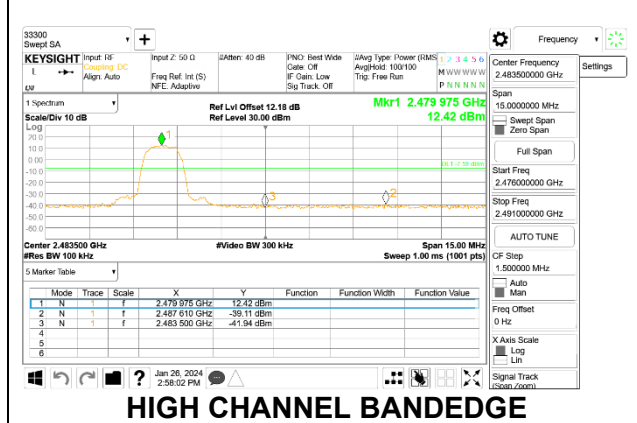
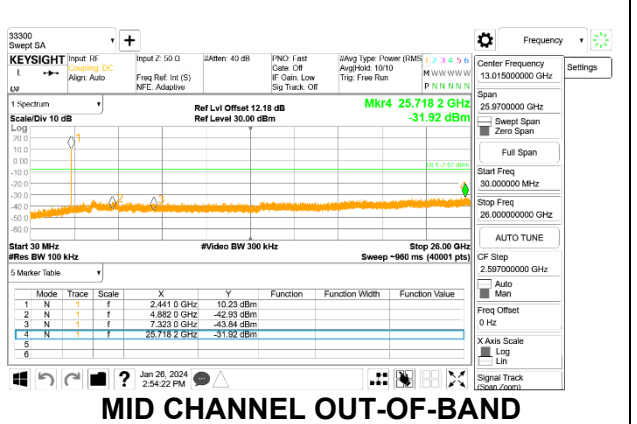
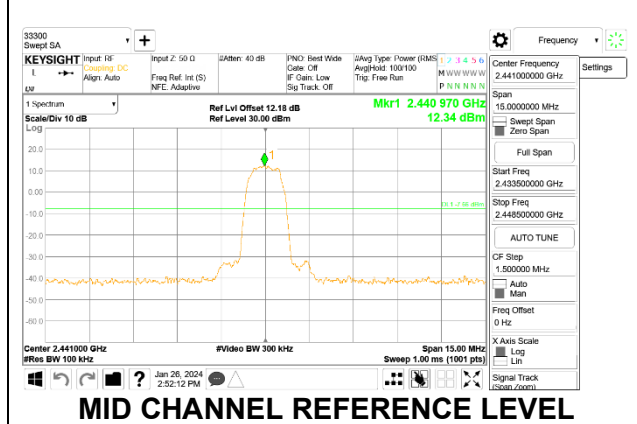
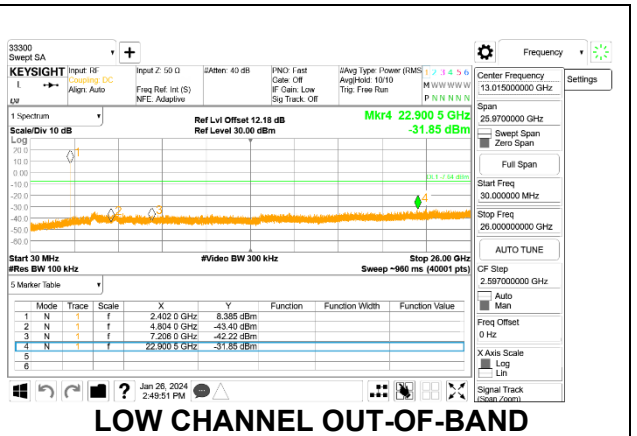
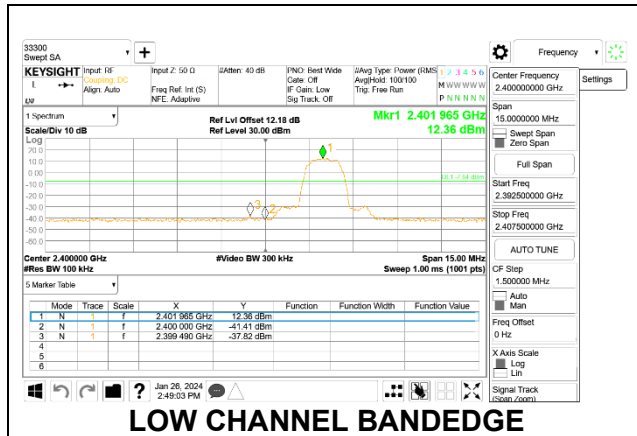


HIGH CHANNEL OUT-OF-BAND

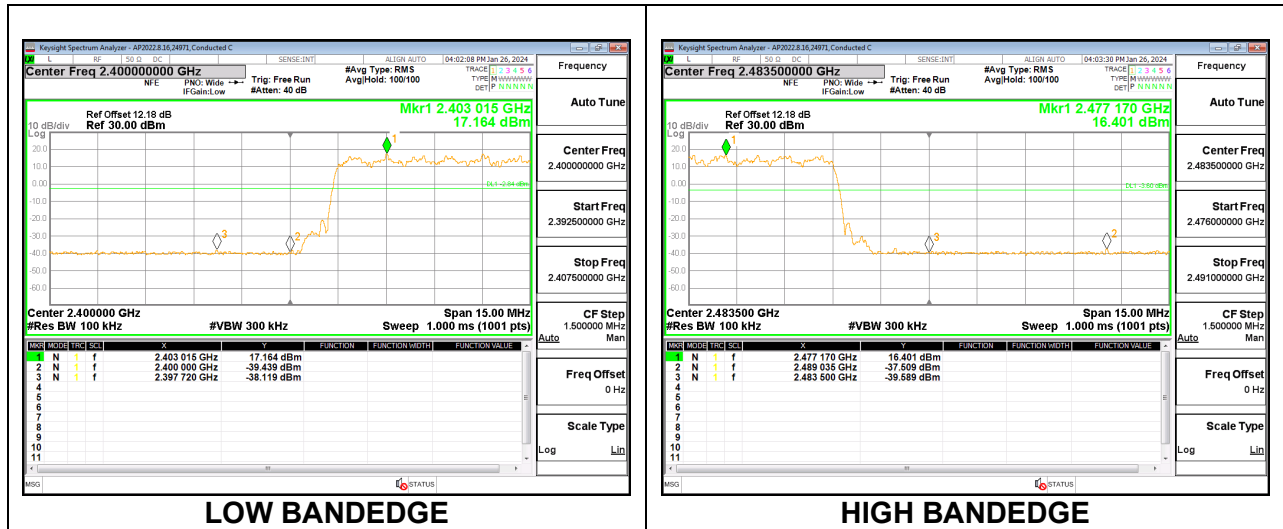
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



ANT 3 SPURIOUS EMISSIONS, NON-HOPPING

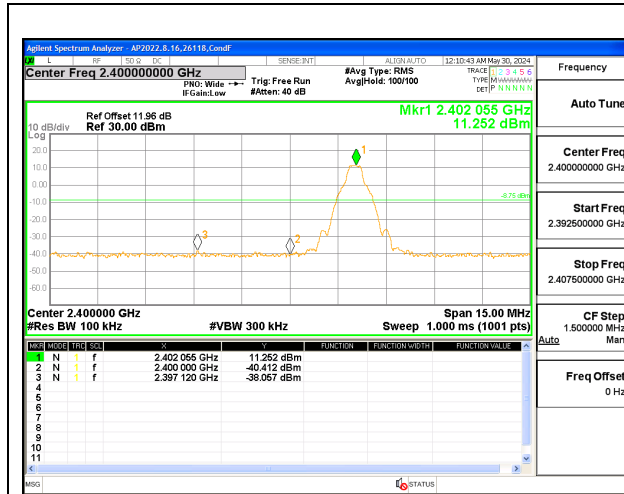


ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

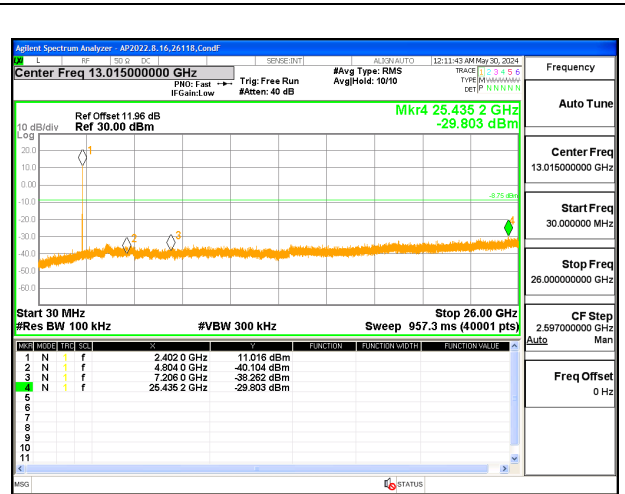


9.9.5. LOW POWER BASIC DATA RATE GFSK MODULATION

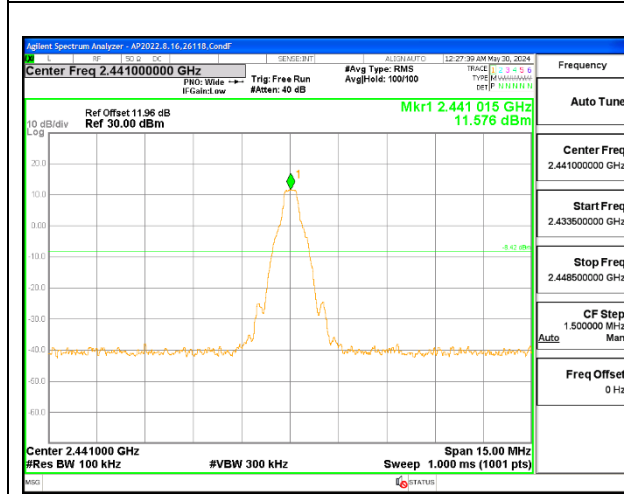
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



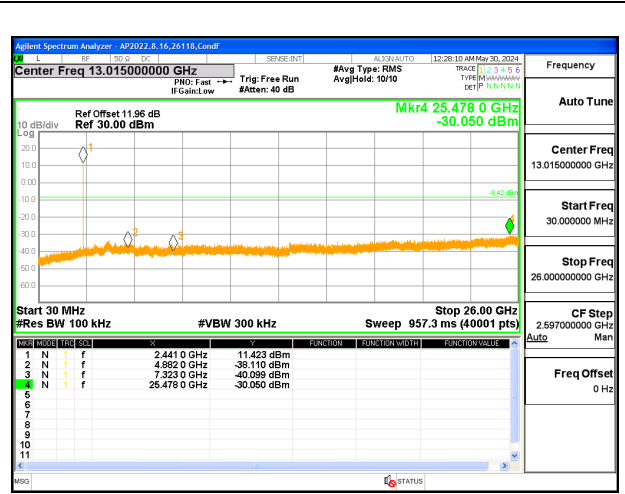
LOW CHANNEL BANDEDGE



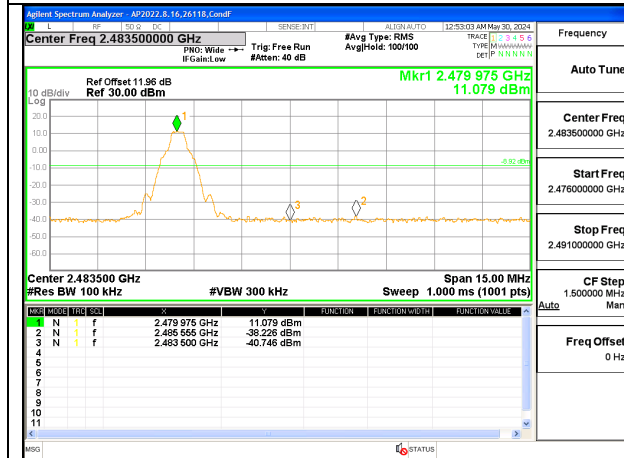
LOW CHANNEL OUT-OF-BAND



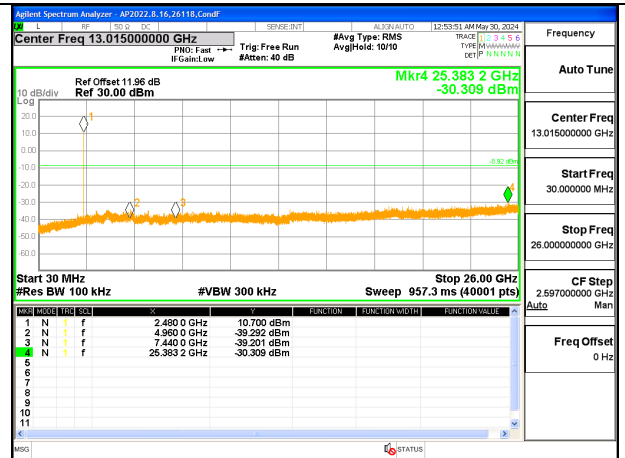
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

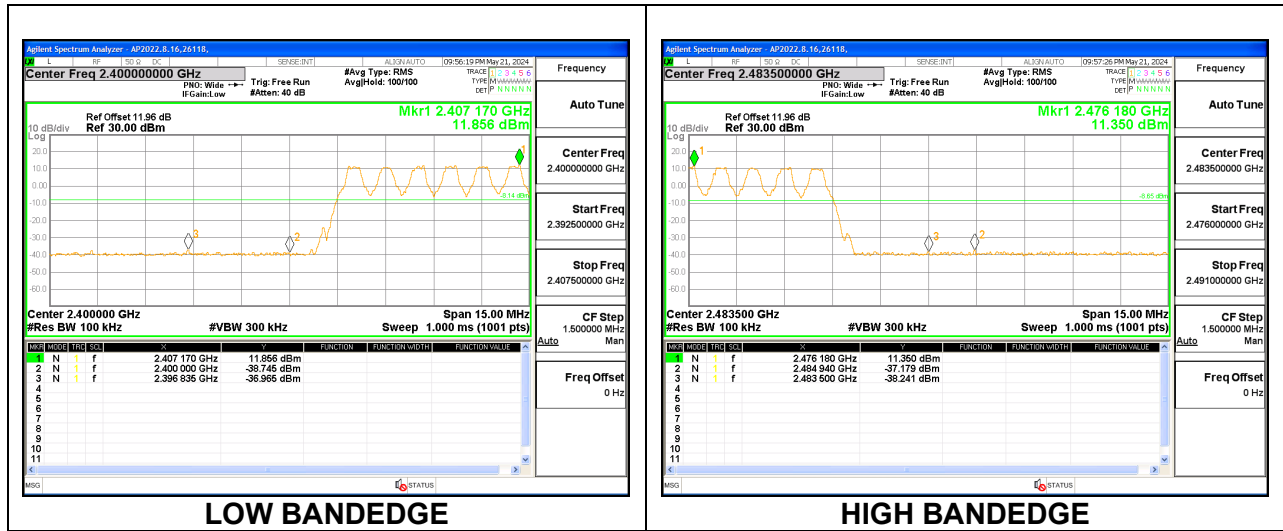


HIGH CHANNEL BANDEDGE

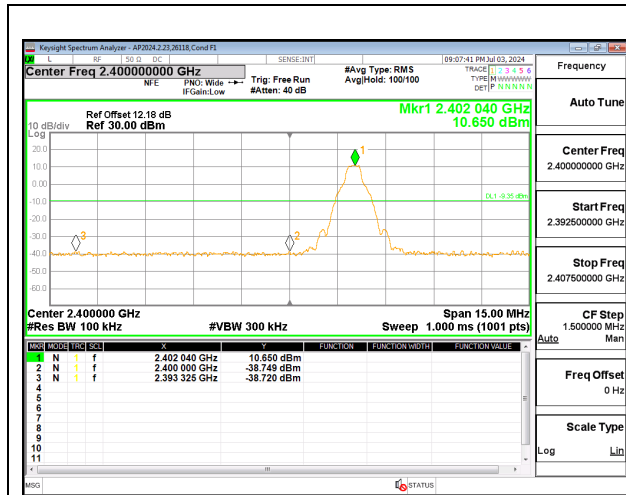


HIGH CHANNEL OUT-OF-BAND

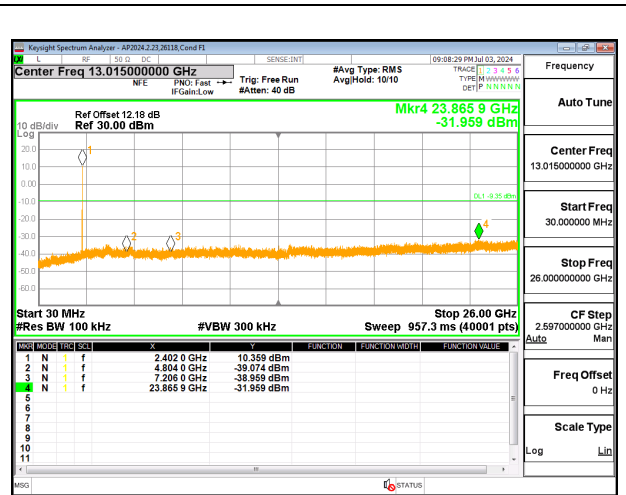
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



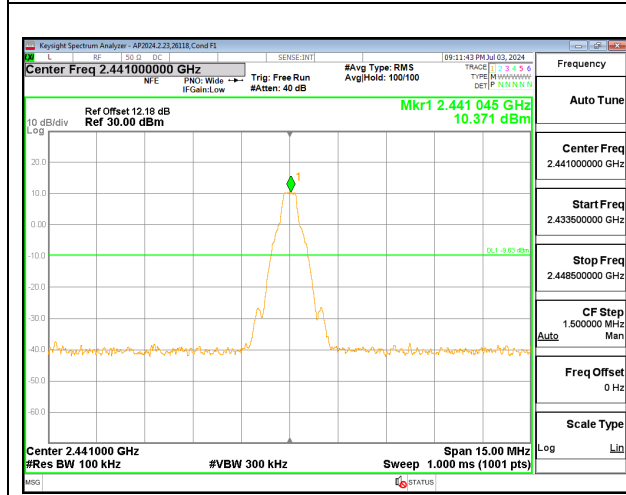
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING



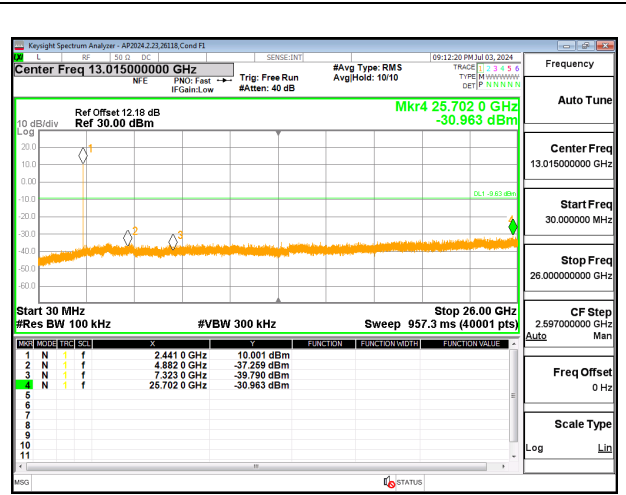
LOW CHANNEL BANDEDGE



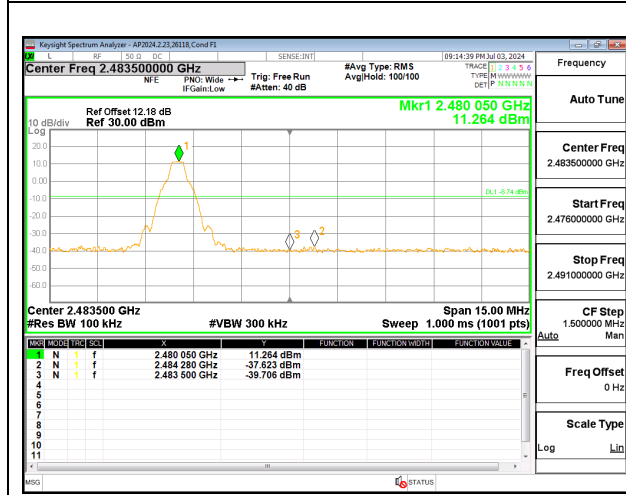
LOW CHANNEL OUT-OF-BAND



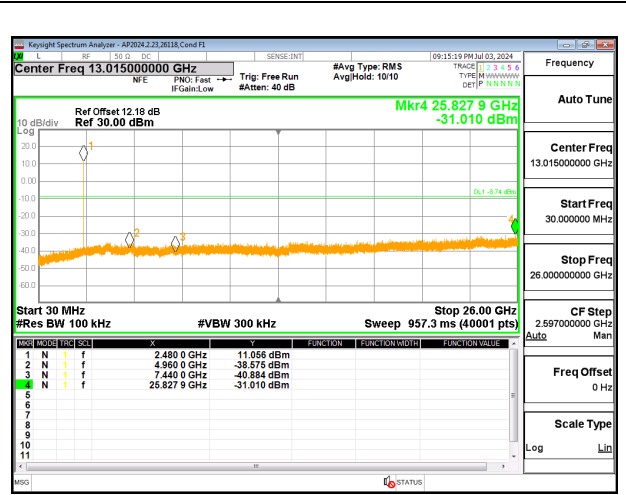
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND



HIGH CHANNEL BANDEDGE



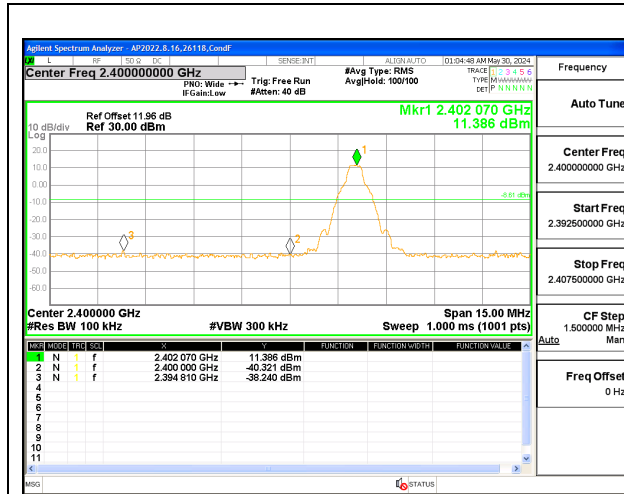
HIGH CHANNEL OUT-OF-BAND

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

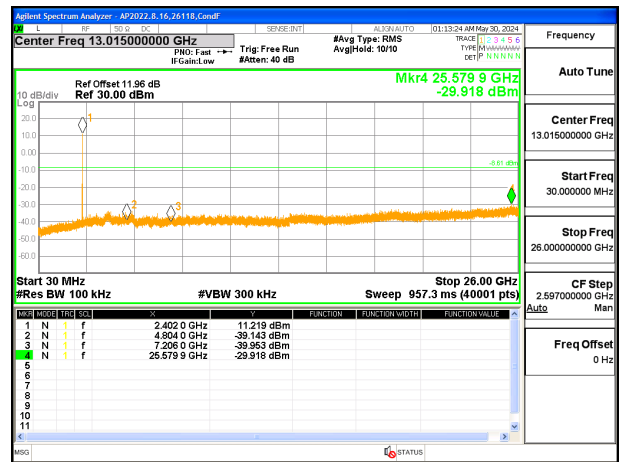


9.9.6. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION

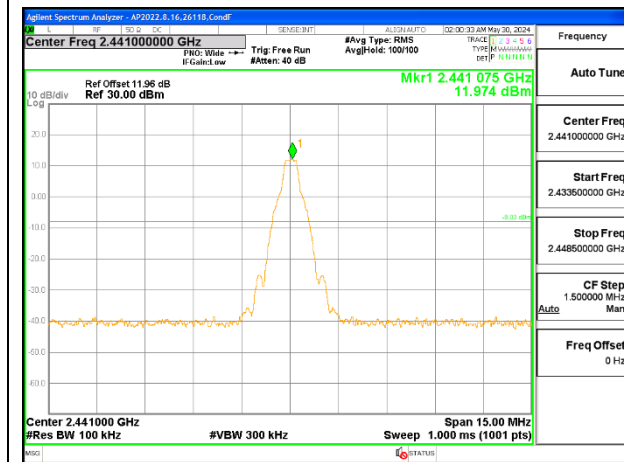
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



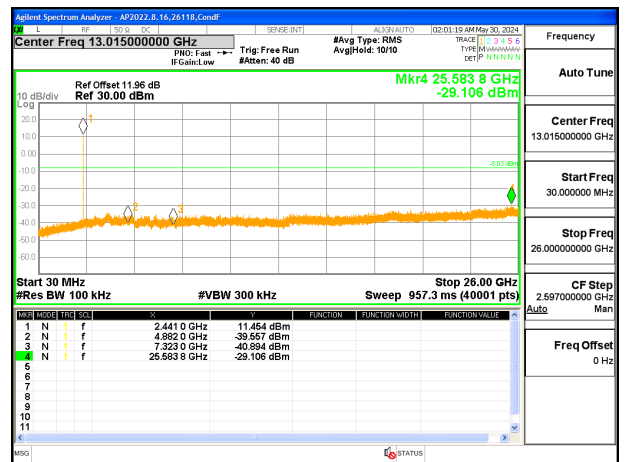
LOW CHANNEL BANDEDGE



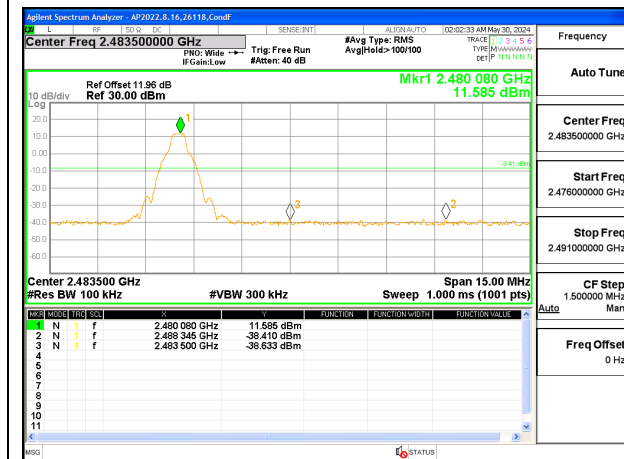
LOW CHANNEL OUT-OF-BAND



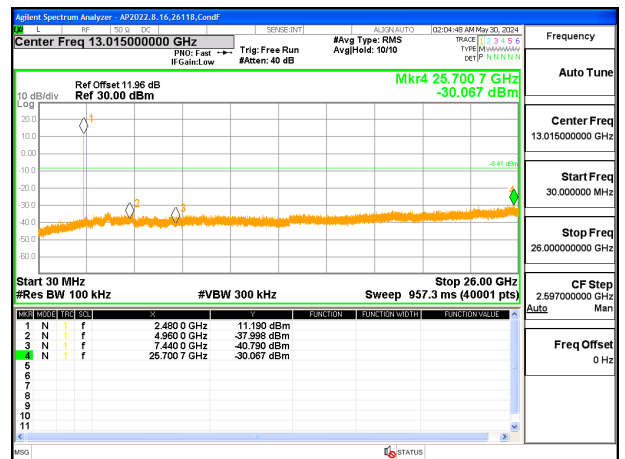
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

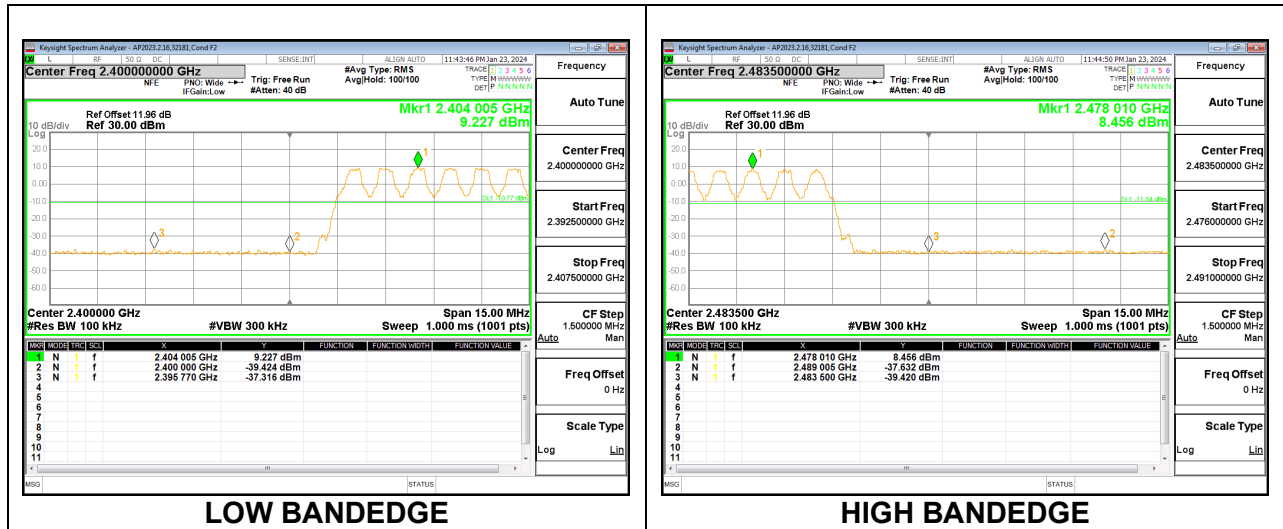


HIGH CHANNEL BANDEDGE

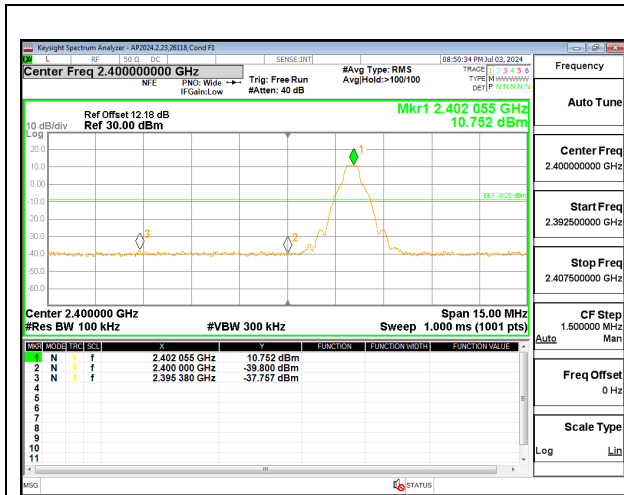


HIGH CHANNEL OUT-OF-BAND

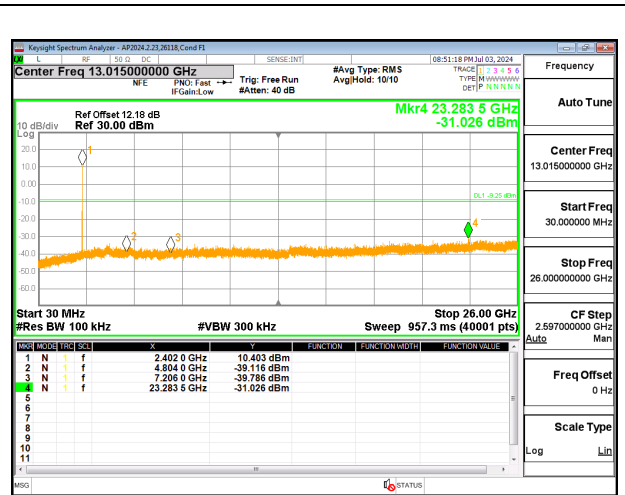
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



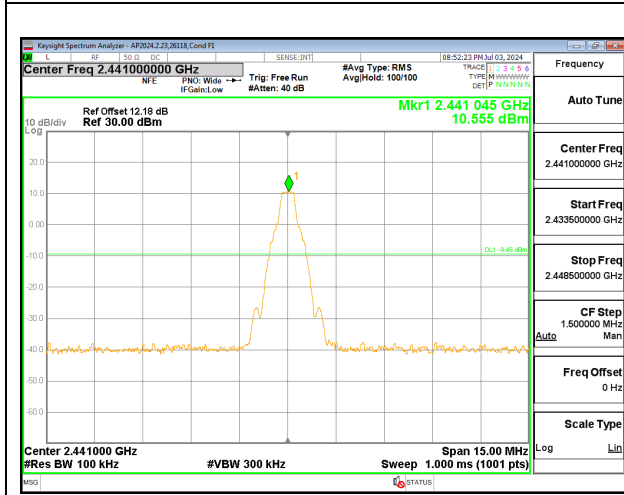
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING



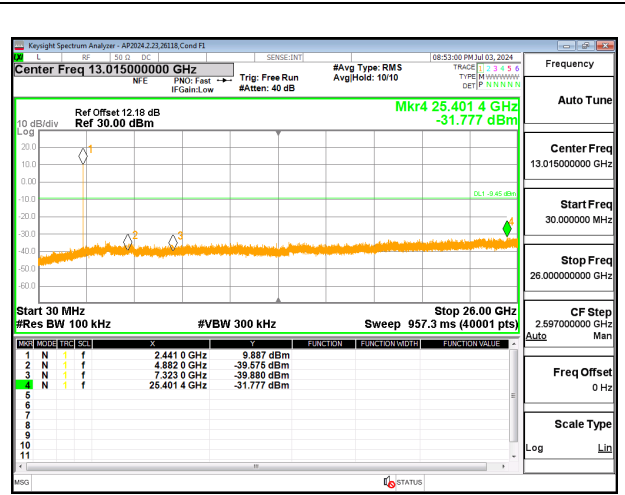
LOW CHANNEL BANDEDGE



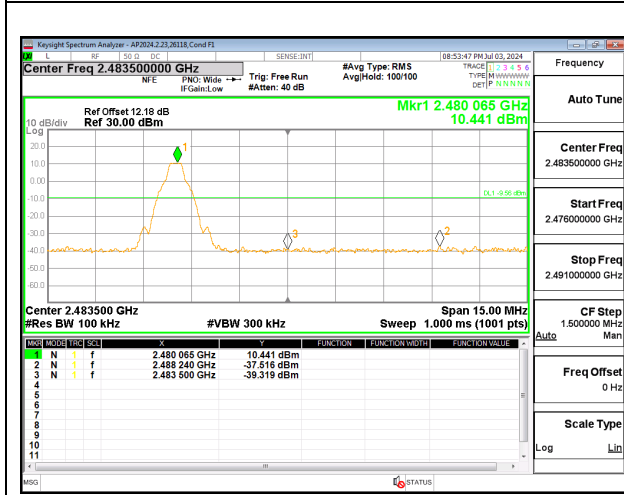
LOW CHANNEL OUT-OF-BAND



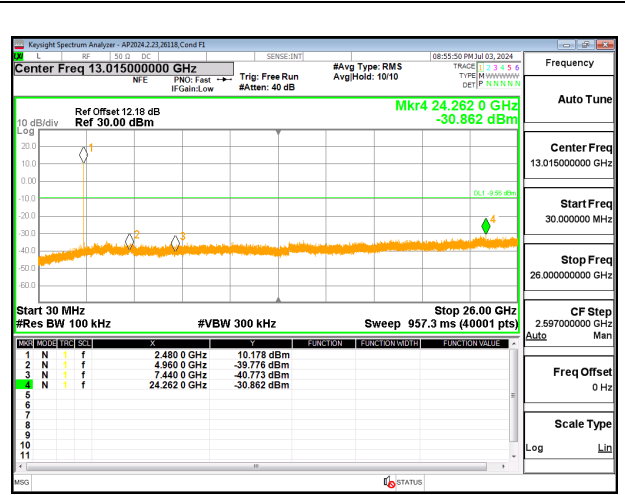
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

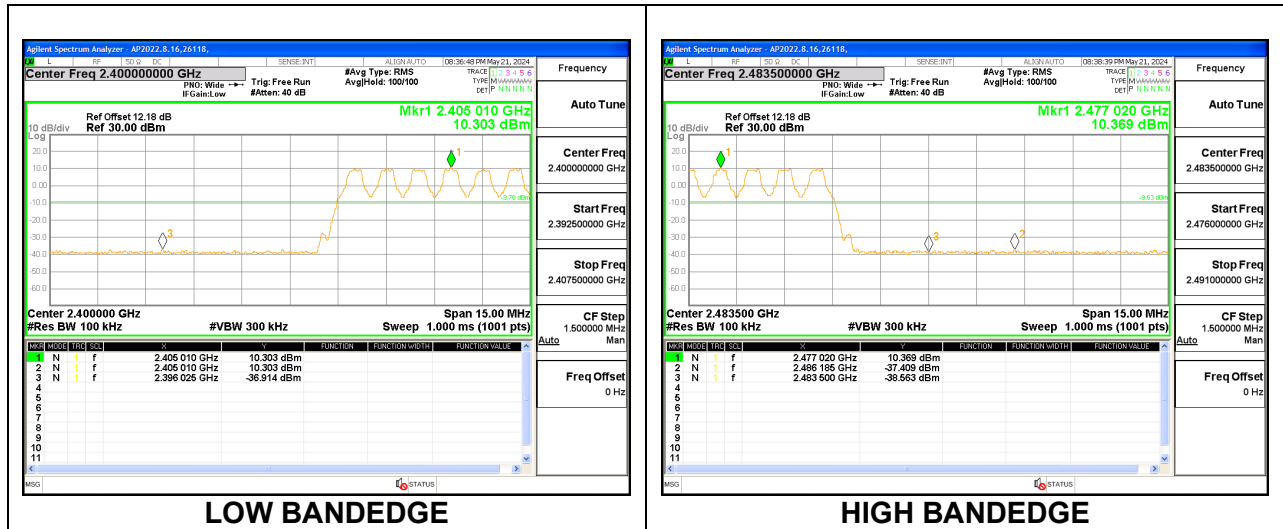


HIGH CHANNEL BANDEDGE



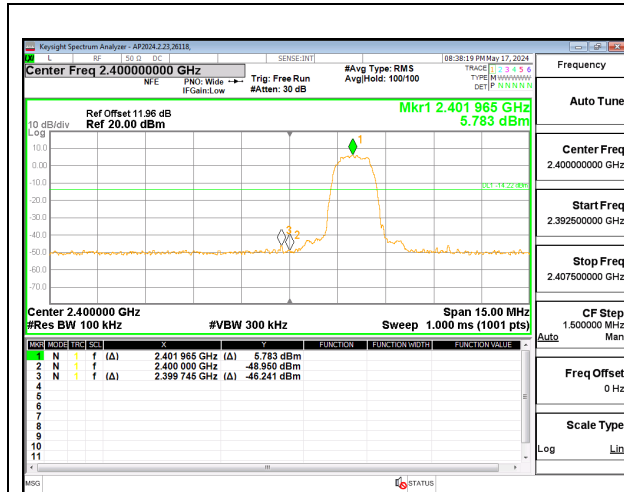
HIGH CHANNEL OUT-OF-BAND

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

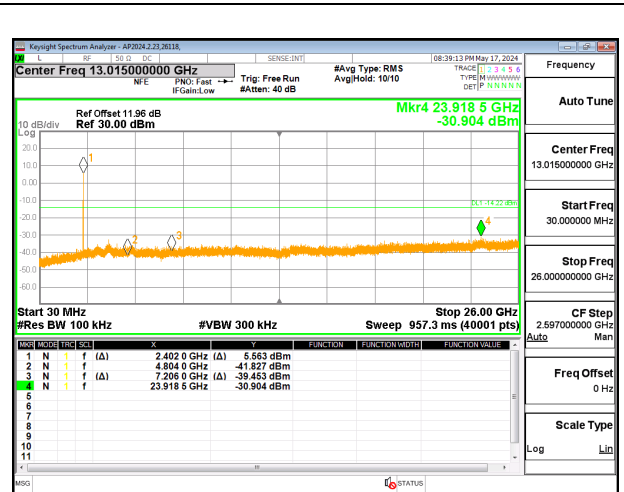


9.9.7. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

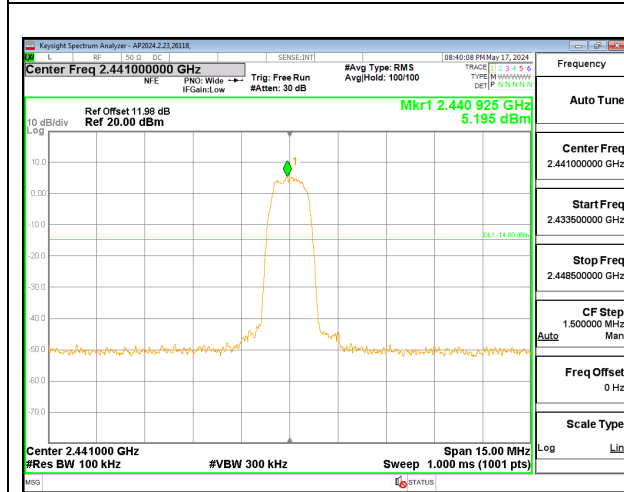
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



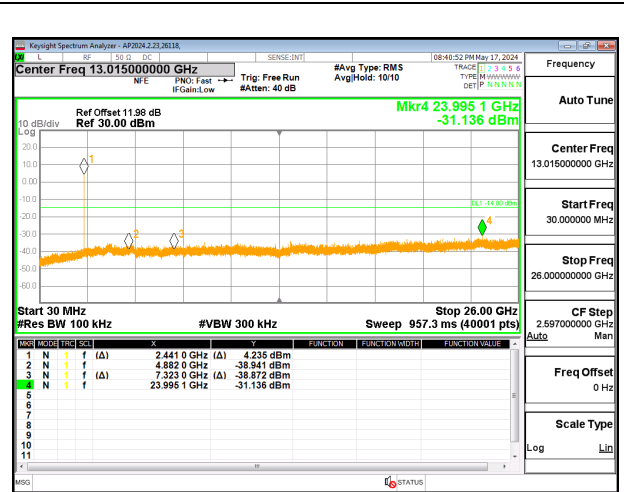
LOW CHANNEL BANDEDGE



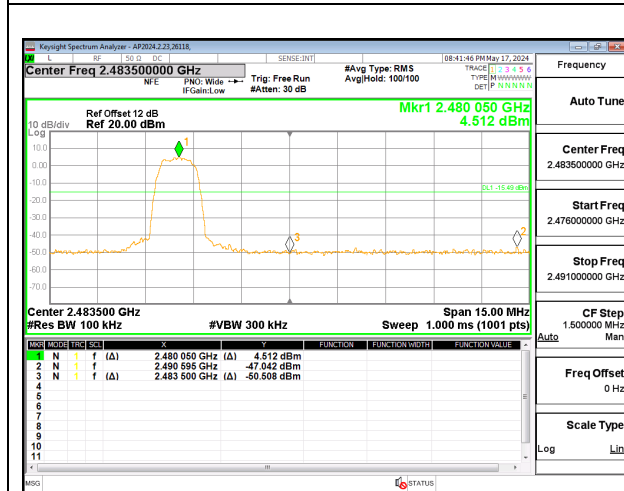
LOW CHANNEL OUT-OF-BAND



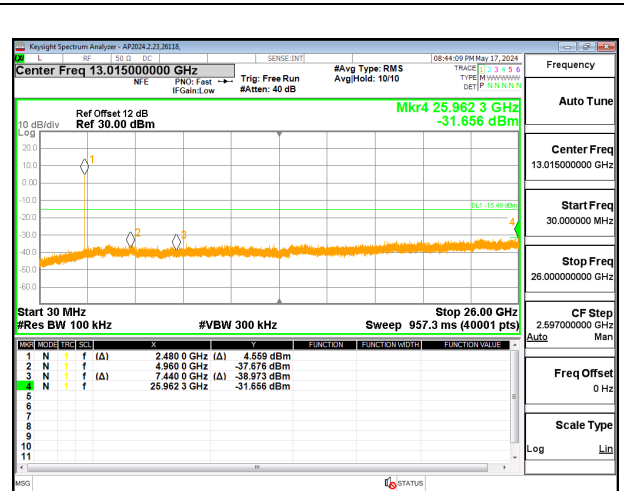
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

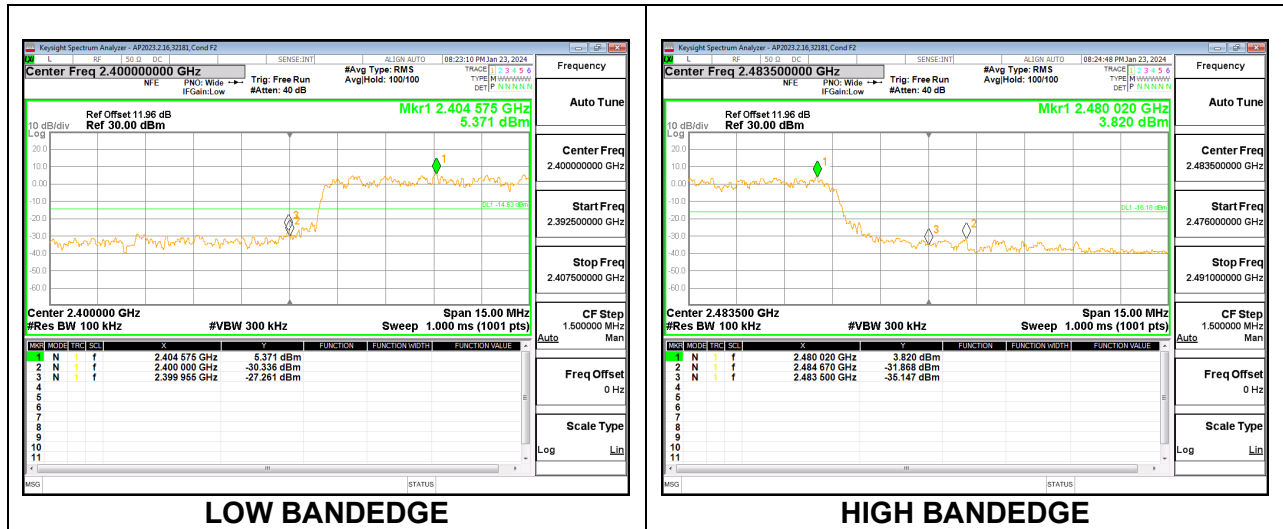


HIGH CHANNEL BANDEDGE

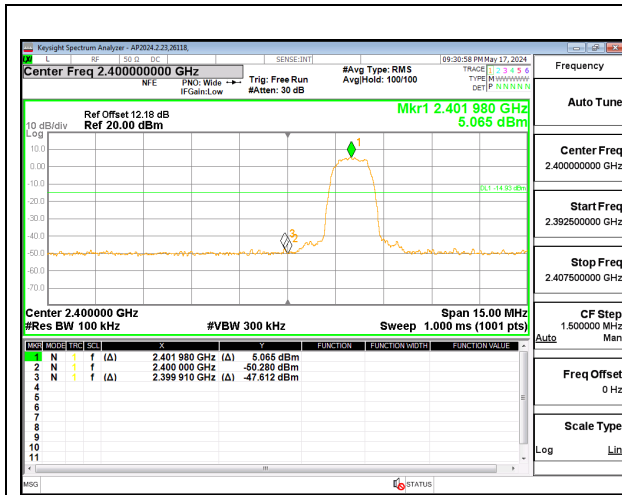


HIGH CHANNEL OUT-OF-BAND

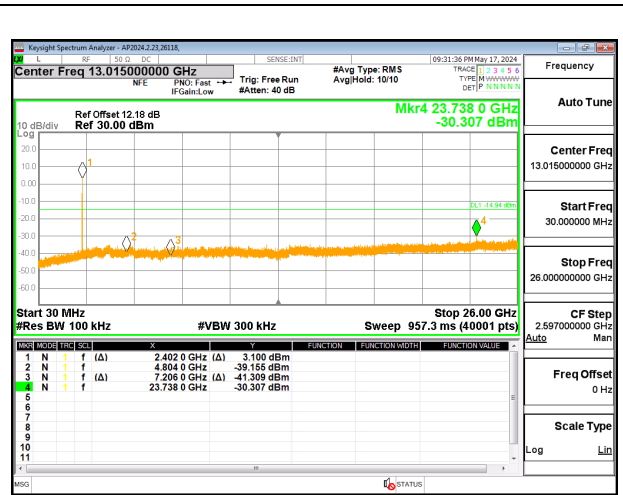
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



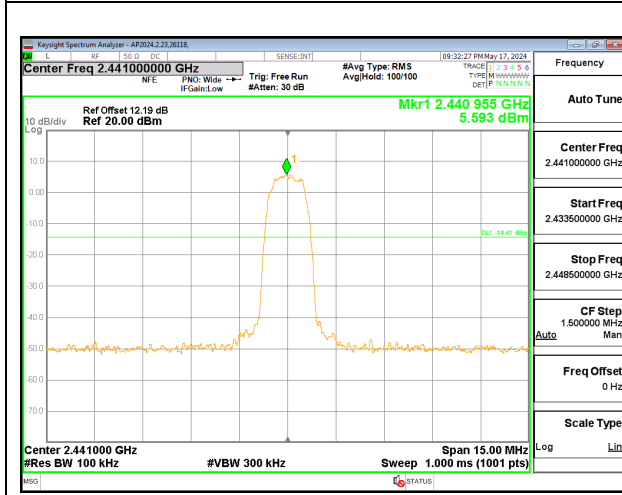
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING



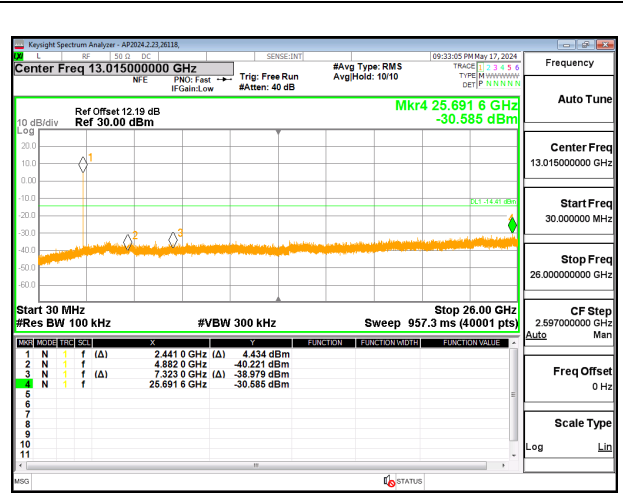
LOW CHANNEL BANDEDGE



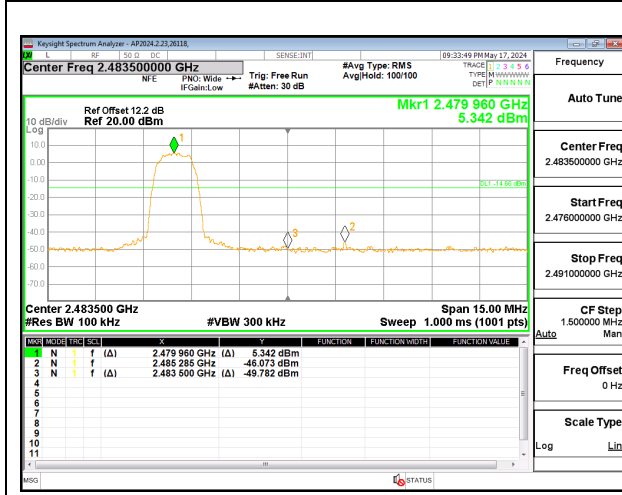
LOW CHANNEL OUT-OF-BAND



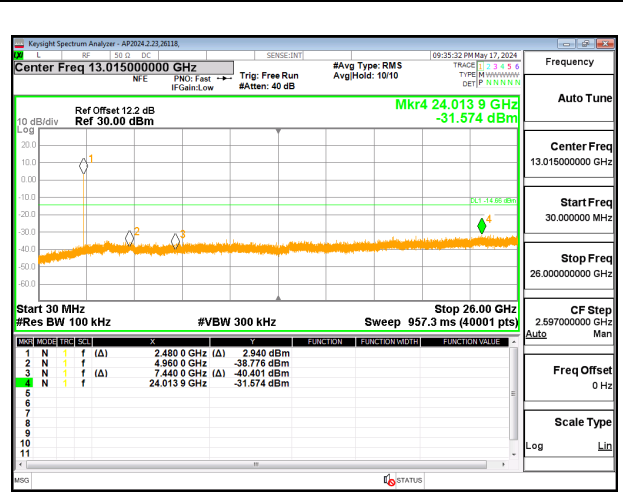
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

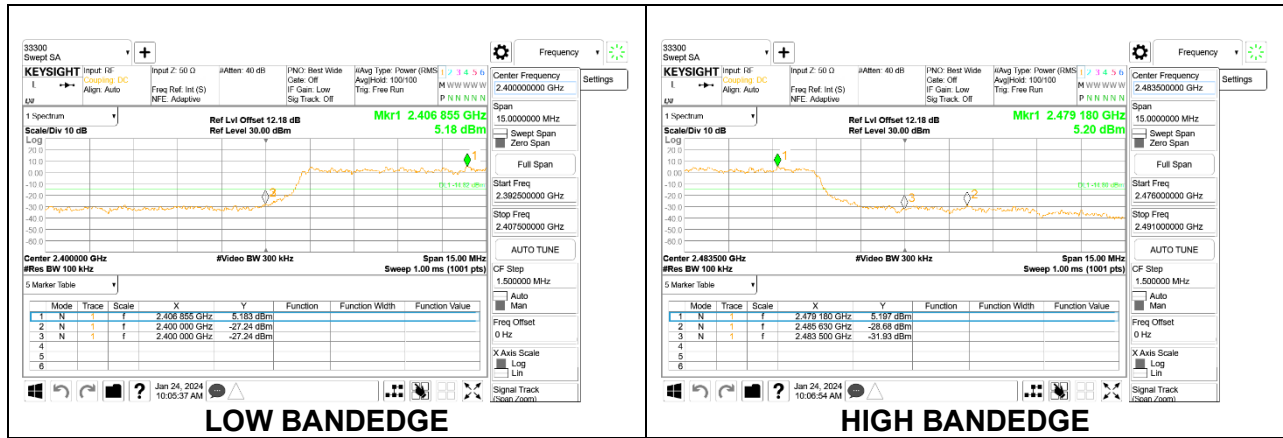


HIGH CHANNEL BANDEDGE



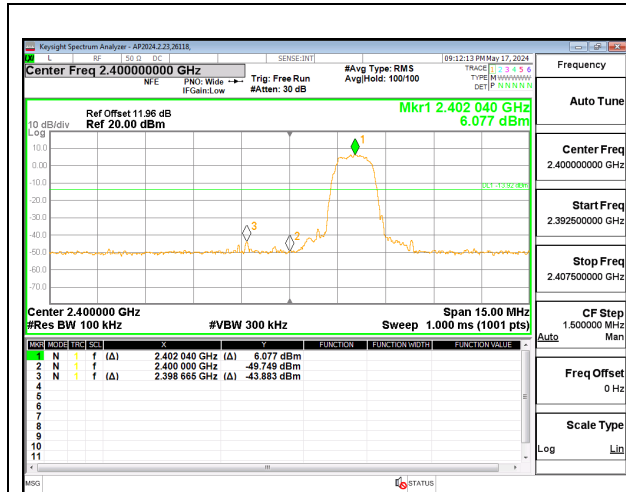
HIGH CHANNEL OUT-OF-BAND

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

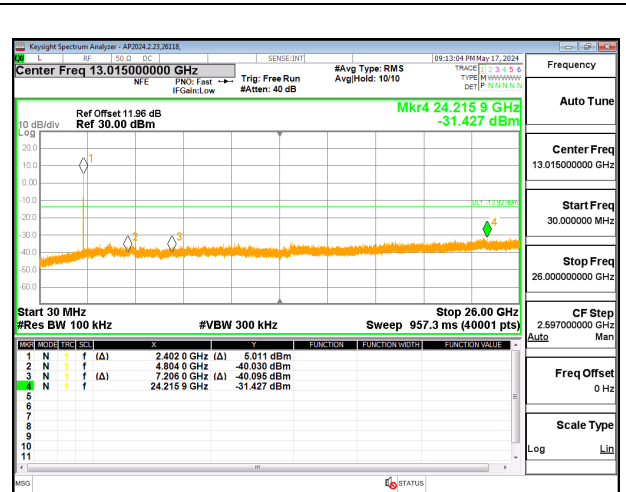


9.9.8. LOW POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

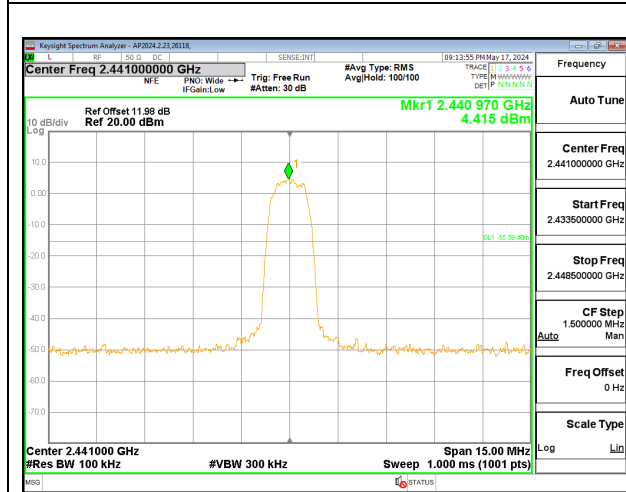
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



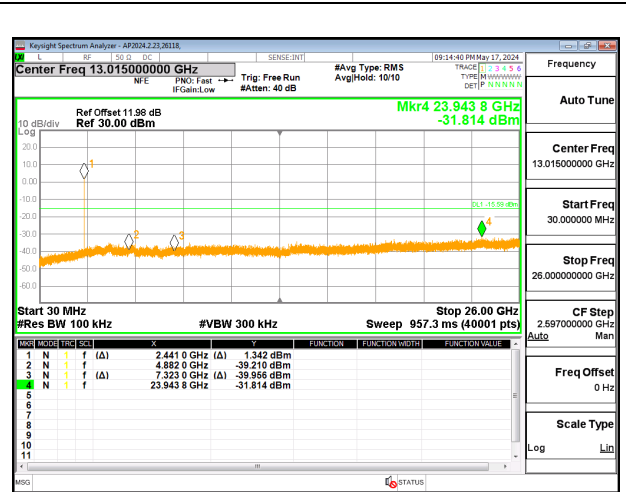
LOW CHANNEL BANDEDGE



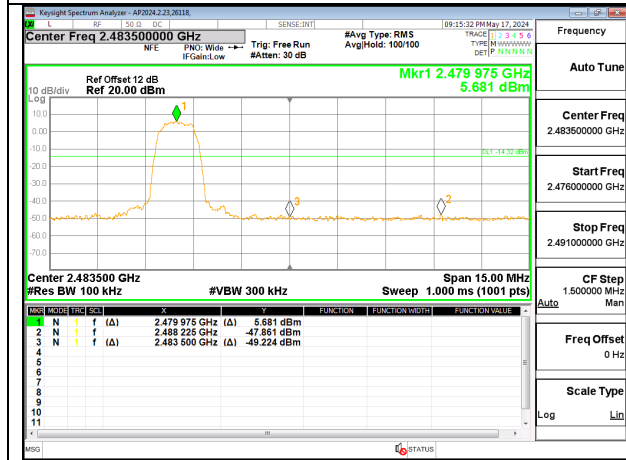
LOW CHANNEL OUT-OF-BAND



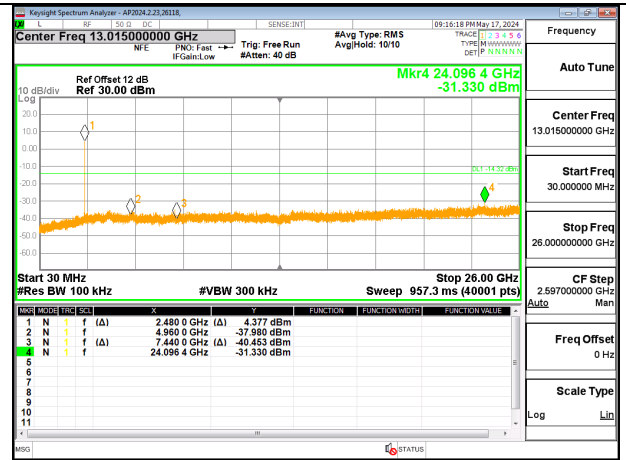
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

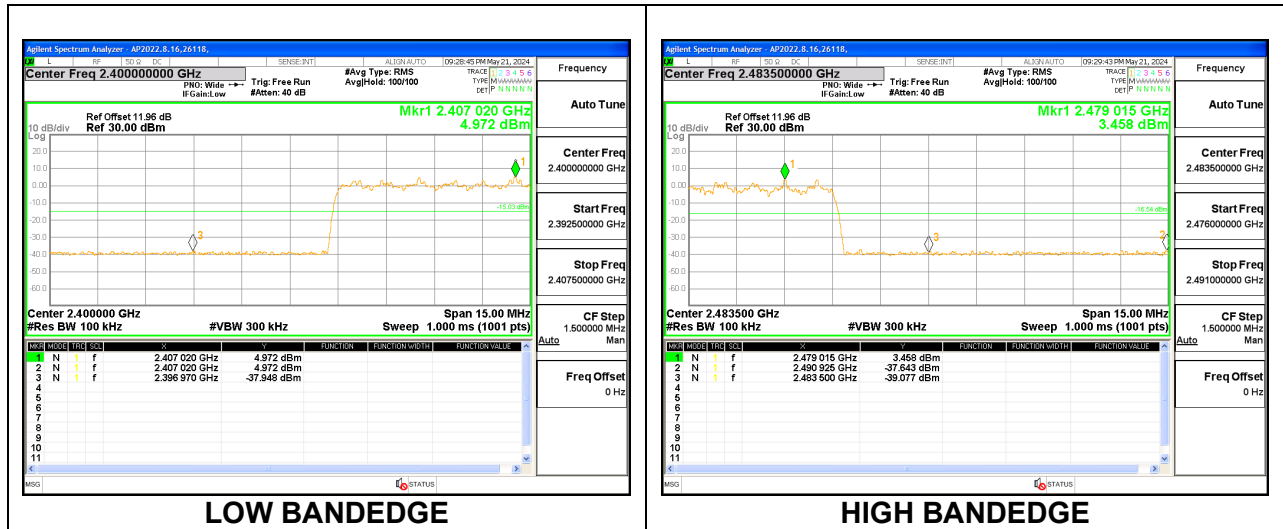


HIGH CHANNEL BANDEDGE

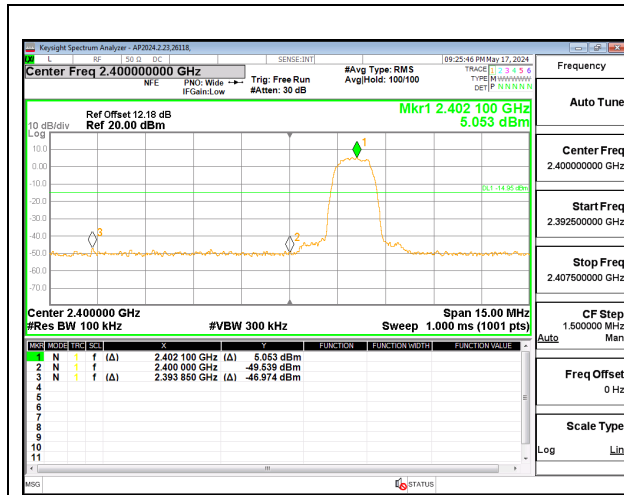


HIGH CHANNEL OUT-OF-BAND

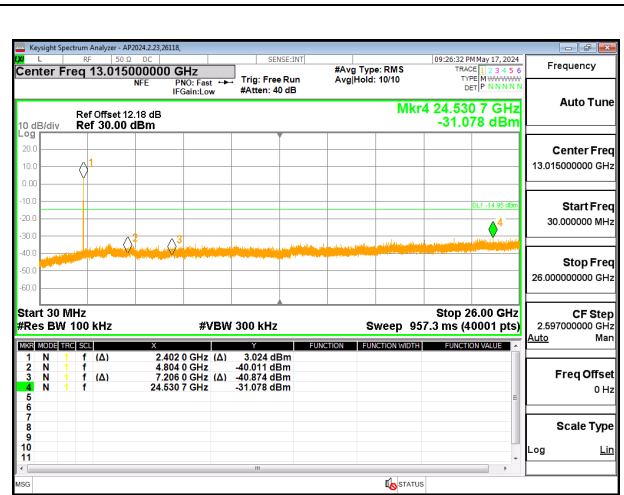
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



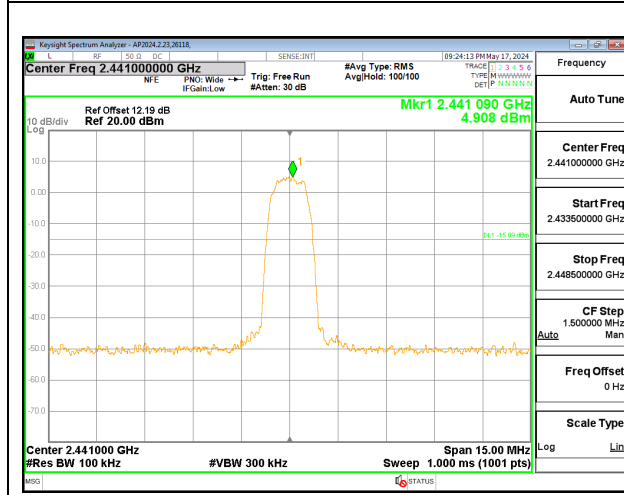
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING



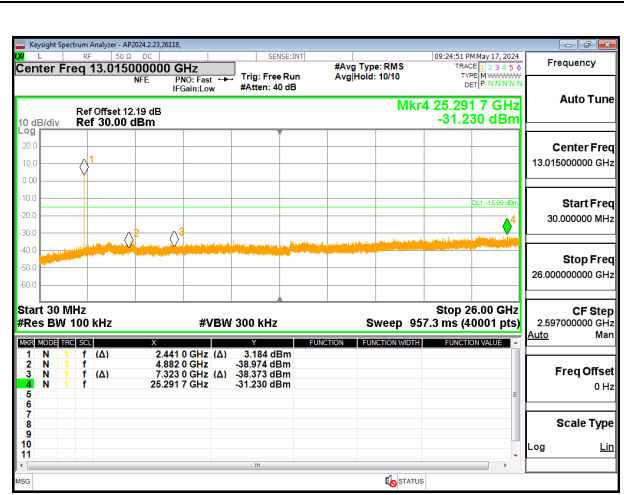
LOW CHANNEL BANDEDGE



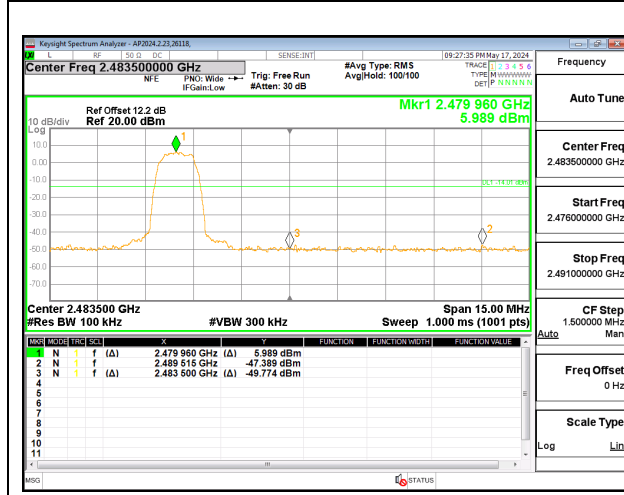
LOW CHANNEL OUT-OF-BAND



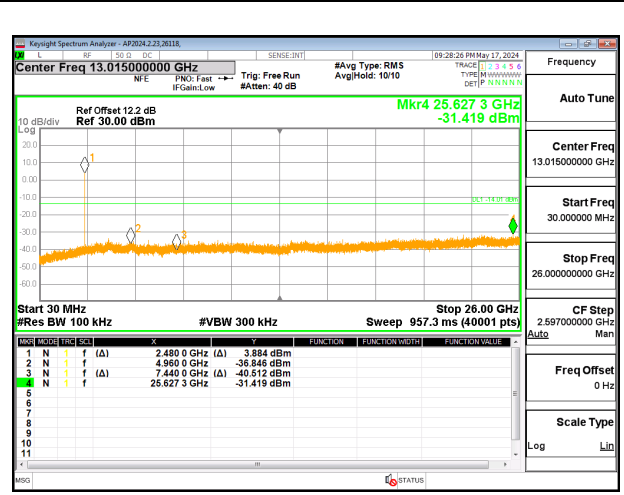
MID CHANNEL REFERENCE LEVEL



MID CHANNEL OUT-OF-BAND

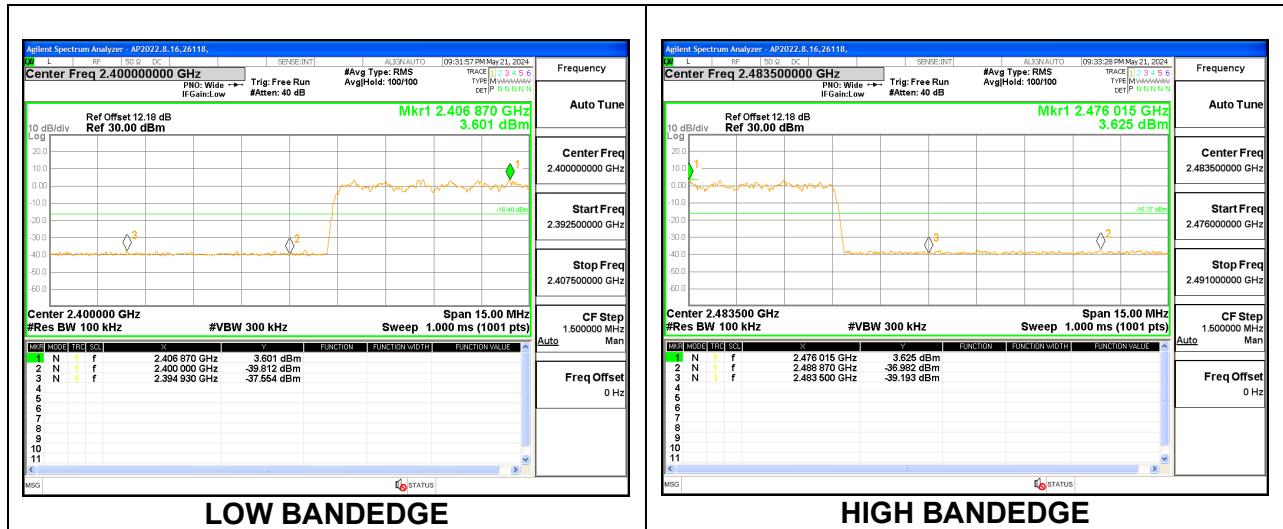


HIGH CHANNEL BANDEDGE



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 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.

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

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.

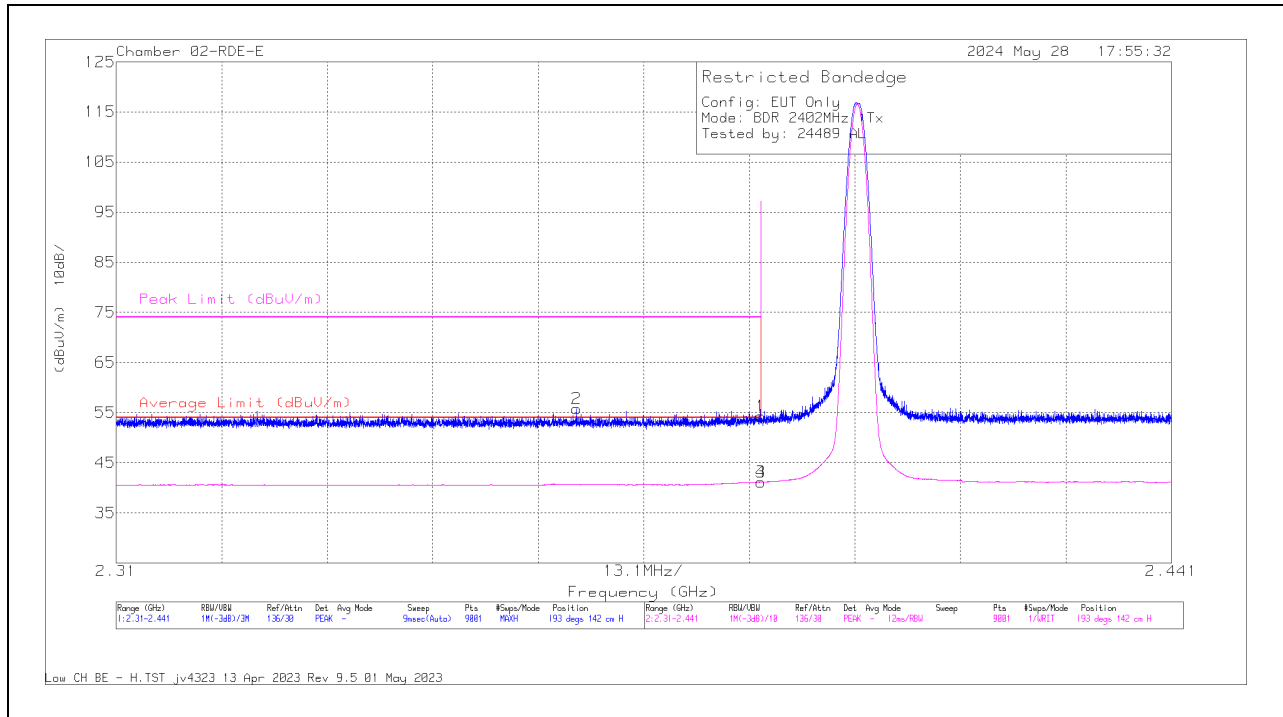
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



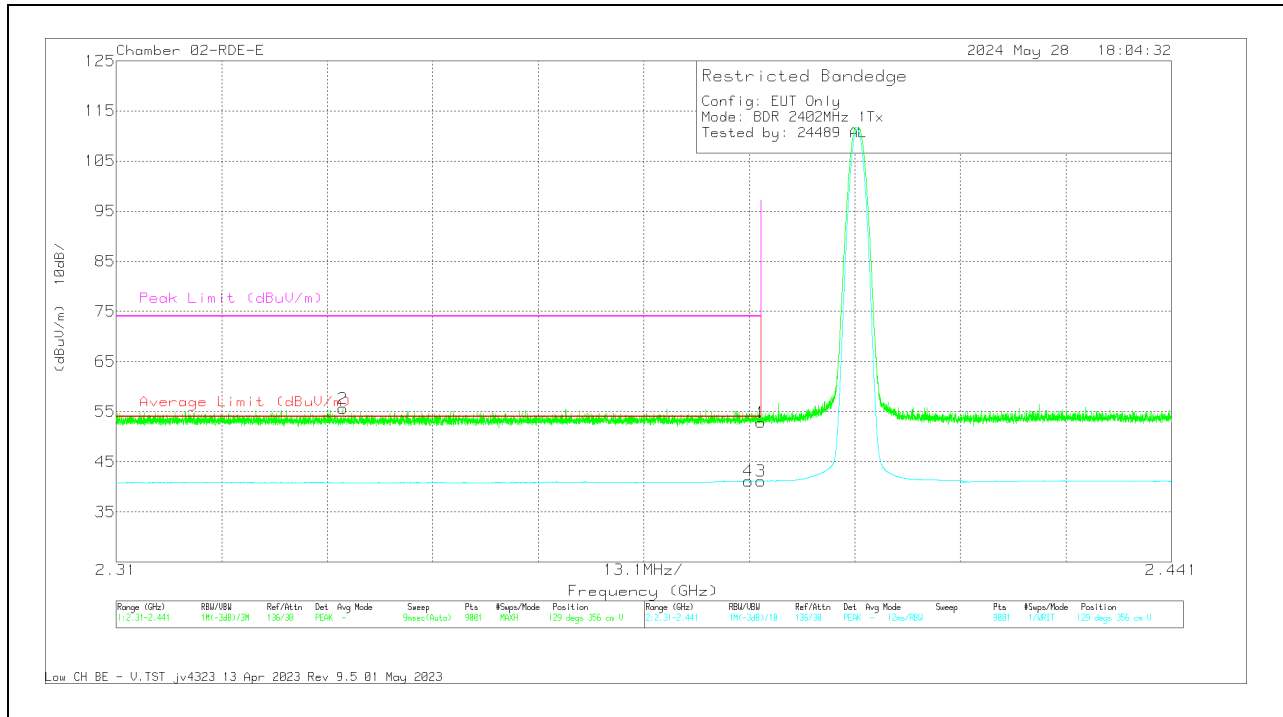
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.22	Pk	32.3	-39.27	54.25	-	-	74	-19.75	193	142	H
2	* 2.367176	62.93	Pk	32.2	-39.31	55.82	-	-	74	-18.18	193	142	H
3	* 2.39	48.1	VA1T	32.3	-39.27	41.13	54	-12.87	-	-	193	142	H
4	* 2.39	48.1	VA1T	32.3	-39.27	41.13	54	-12.87	-	-	193	142	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	206807 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	59.81	Pk	32.3	-39.27	52.84	-	-	74	-21.16	129	356	V
2	* 2.338166	62.82	Pk	32.1	-39.32	55.6	-	-	74	-18.4	129	356	V
3	* 2.39	48.1	VA1T	32.3	-39.27	41.13	54	-12.87	-	-	129	356	V
4	* 2.388486	48.16	VA1T	32.3	-39.28	41.18	54	-12.82	-	-	129	356	V

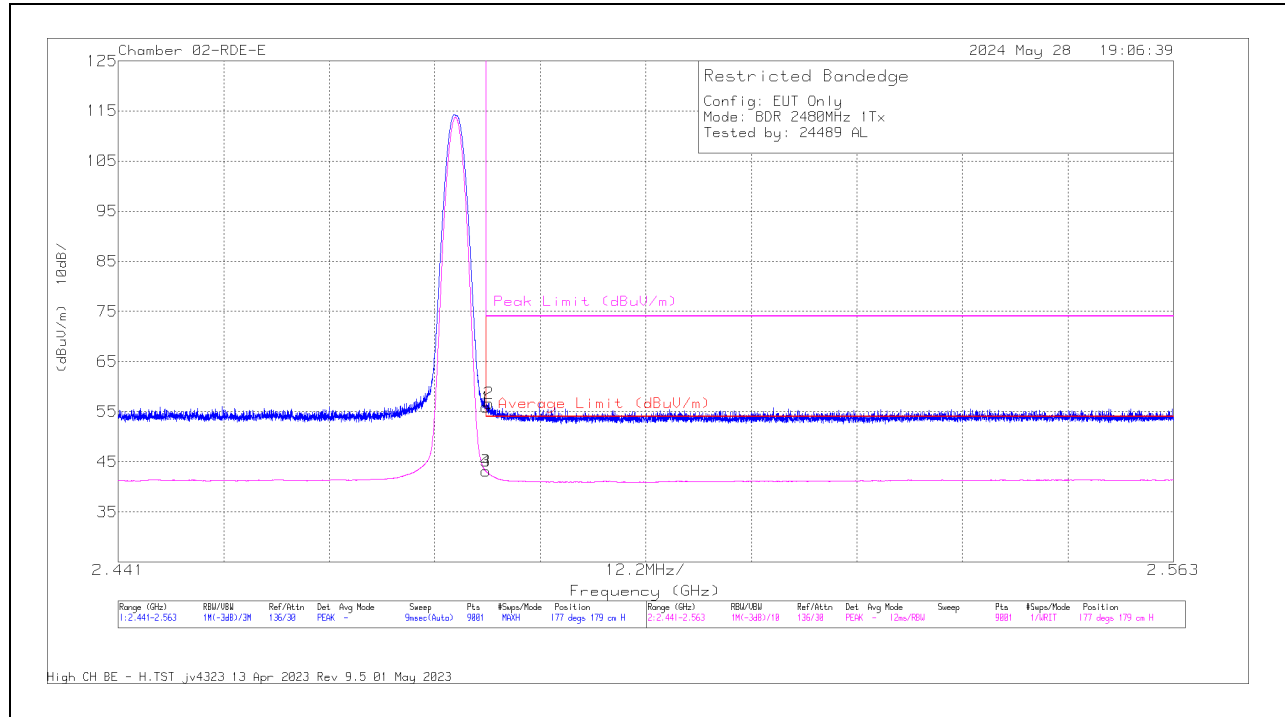
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



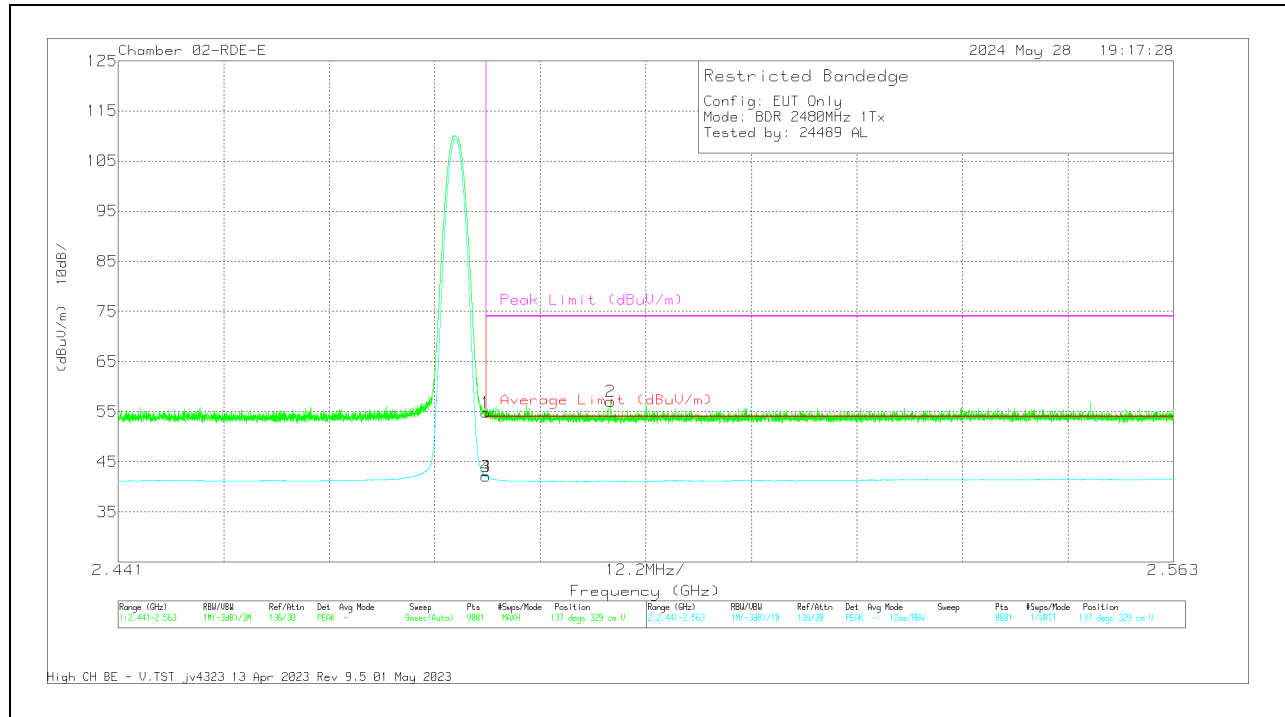
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.71	Pk	32.3	-39.16	55.85	-	-	74	-18.15	177	179	H
2	* 2.483851	63.47	Pk	32.3	-39.15	56.62	-	-	74	-17.38	177	179	H
3	* 2.4835	49.96	VA1T	32.3	-39.16	43.1	54	-10.9	-	-	177	179	H
4	* 2.483512	49.94	VA1T	32.3	-39.15	43.09	54	-10.91	-	-	177	179	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	206807 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	61.7	Pk	32.3	-39.16	54.84	-	-	74	-19.16	137	329	V
2	* 2.497962	63.86	Pk	32.3	-39.14	57.02	-	-	74	-16.98	137	329	V
3	* 2.4835	48.93	VA1T	32.3	-39.16	42.07	54	-11.93	-	-	137	329	V
4	* 2.483512	48.93	VA1T	32.3	-39.15	42.08	54	-11.92	-	-	137	329	V

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

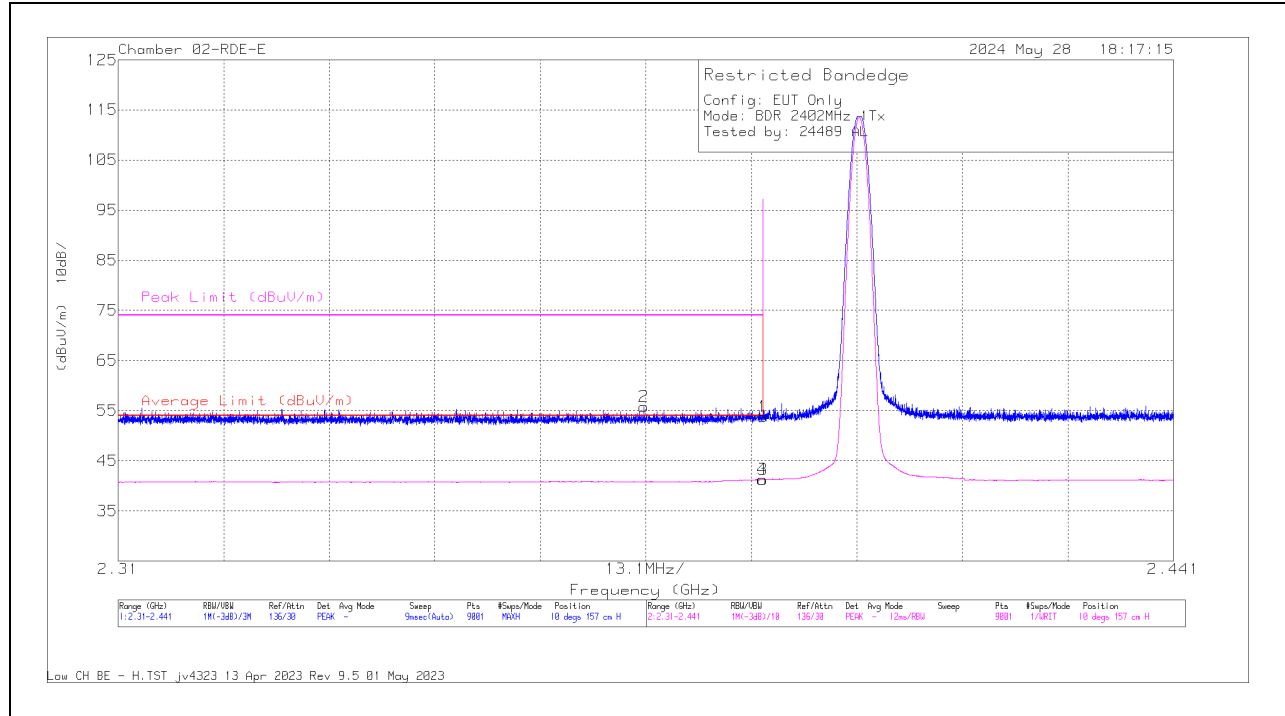
Pk - Peak detector

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

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



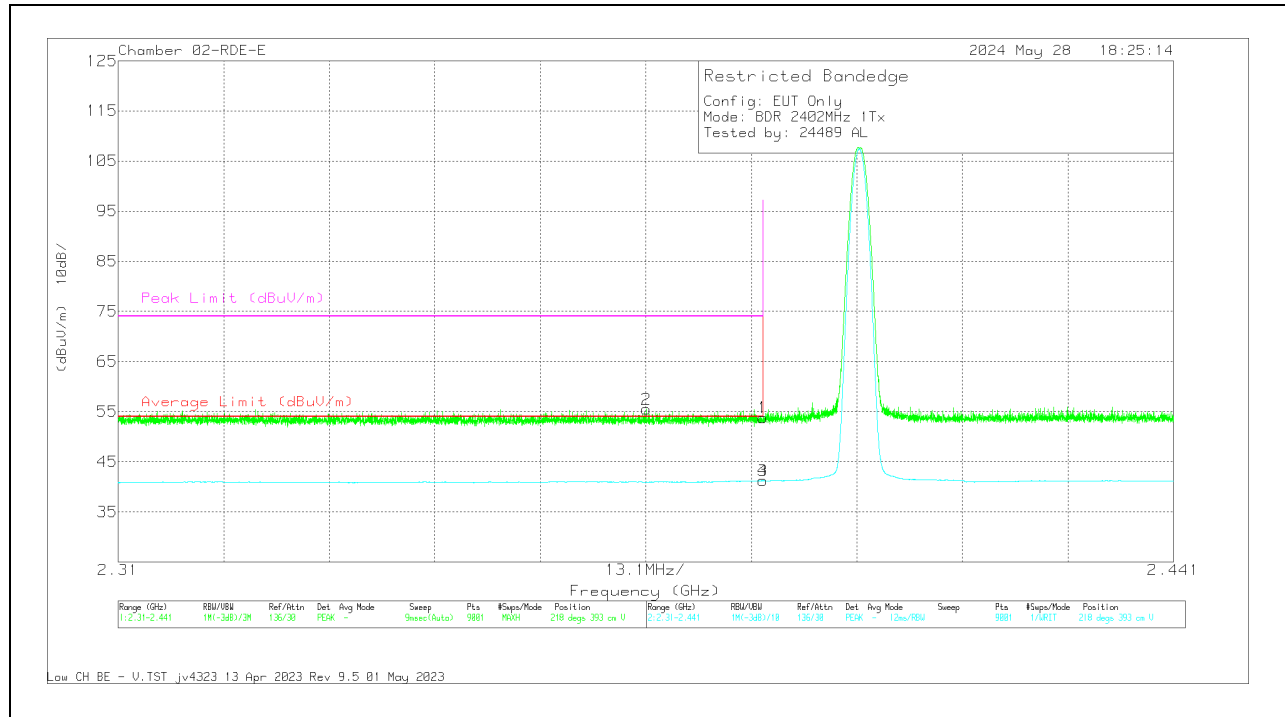
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.8	Pk	32.3	-39.27	53.83	-	-	74	-20.17	10	157	H
2	* 2.37524	62.88	Pk	32.2	-39.3	55.78	-	-	74	-18.22	10	157	H
3	* 2.39	48.22	VA1T	32.3	-39.27	41.25	54	-12.75	-	-	10	157	H
4	* 2.389985	48.23	VA1T	32.3	-39.27	41.26	54	-12.74	-	-	10	157	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

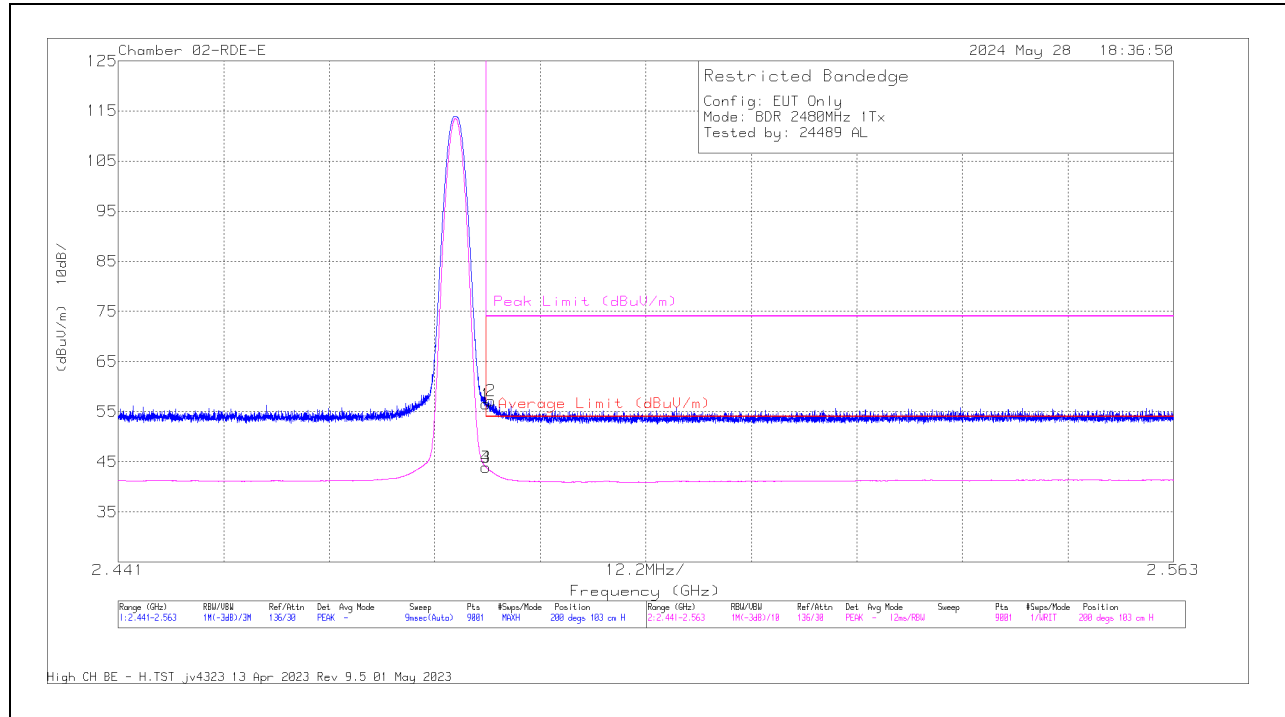


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.79	Pk	32.3	-39.27	53.82	-	-	74	-20.18	218	393	V
2	* 2.37556	62.56	Pk	32.2	-39.29	55.47	-	-	74	-18.53	218	393	V
3	* 2.39	48.18	VA1T	32.3	-39.27	41.21	54	-12.79	-	-	218	393	V
4	* 2.39	48.18	VA1T	32.3	-39.27	41.21	54	-12.79	-	-	218	393	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)

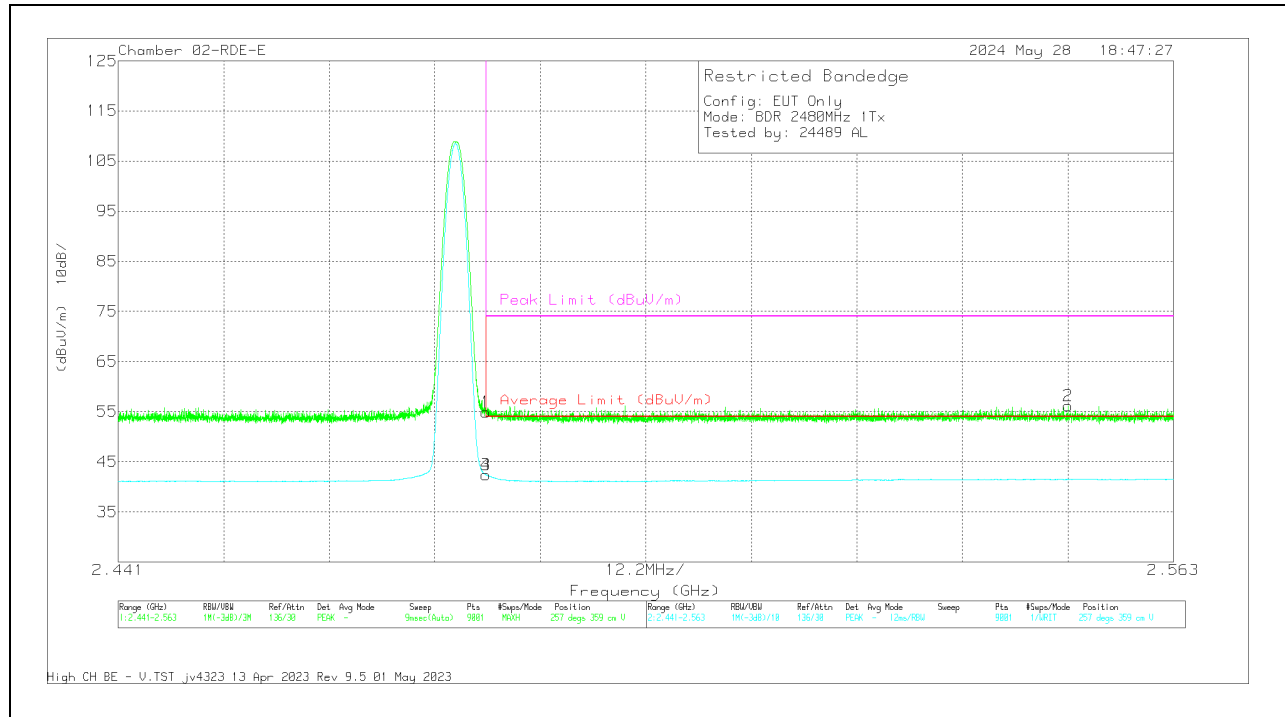
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 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	63.33	Pk	32.3	-39.16	56.47	-	-	74	-17.53	200	103	H
2	* 2.484067	63.97	Pk	32.3	-39.15	57.12	-	-	74	-16.88	200	103	H
3	* 2.4835	50.8	VA1T	32.3	-39.16	43.94	54	-10.06	-	-	200	103	H
4	* 2.483512	50.77	VA1T	32.3	-39.15	43.92	54	-10.08	-	-	200	103	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



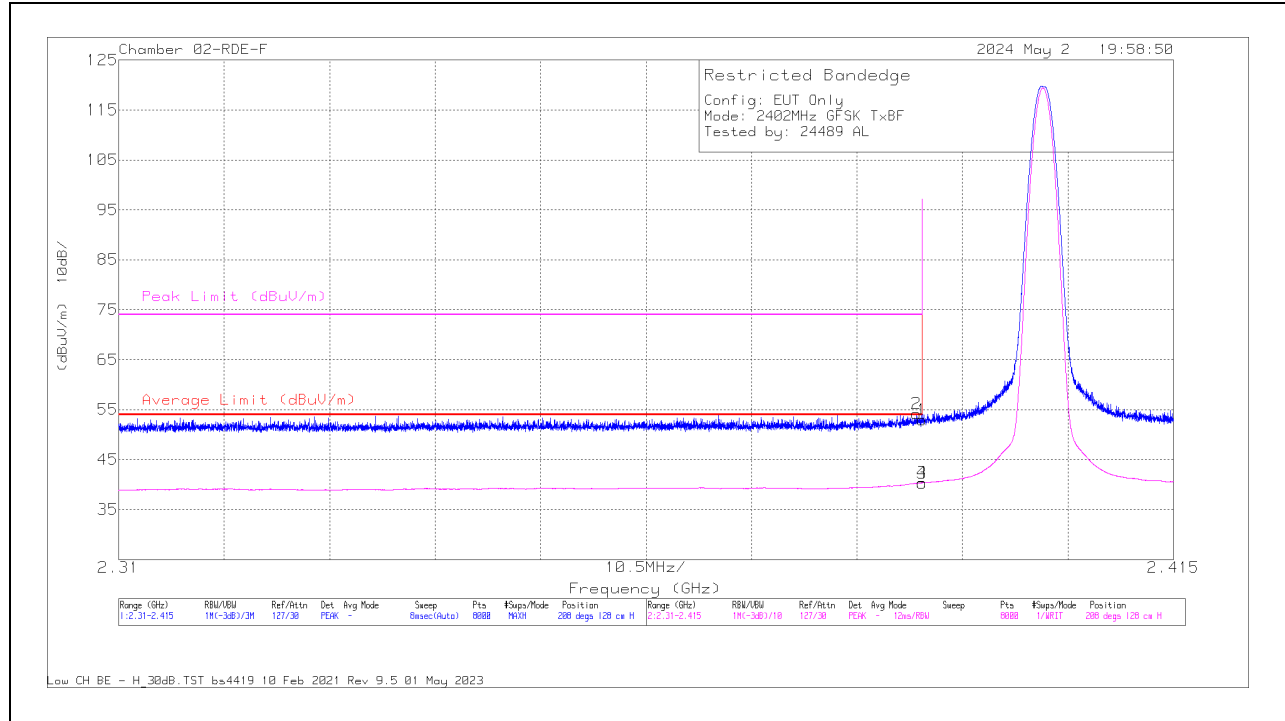
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.73	Pk	32.3	-39.16	54.87	-	-	74	-19.13	257	359	V
3	* 2.4835	49.24	VA1T	32.3	-39.16	42.38	54	-11.62	-	-	257	359	V
4	* 2.483512	49.23	VA1T	32.3	-39.15	42.38	54	-11.62	-	-	257	359	V
2	2.550817	62.76	Pk	32.5	-39.05	56.21	-	-	74	-17.79	257	359	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

10.1.2. HIGH POWER BASIC DATA RATE TXBF GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



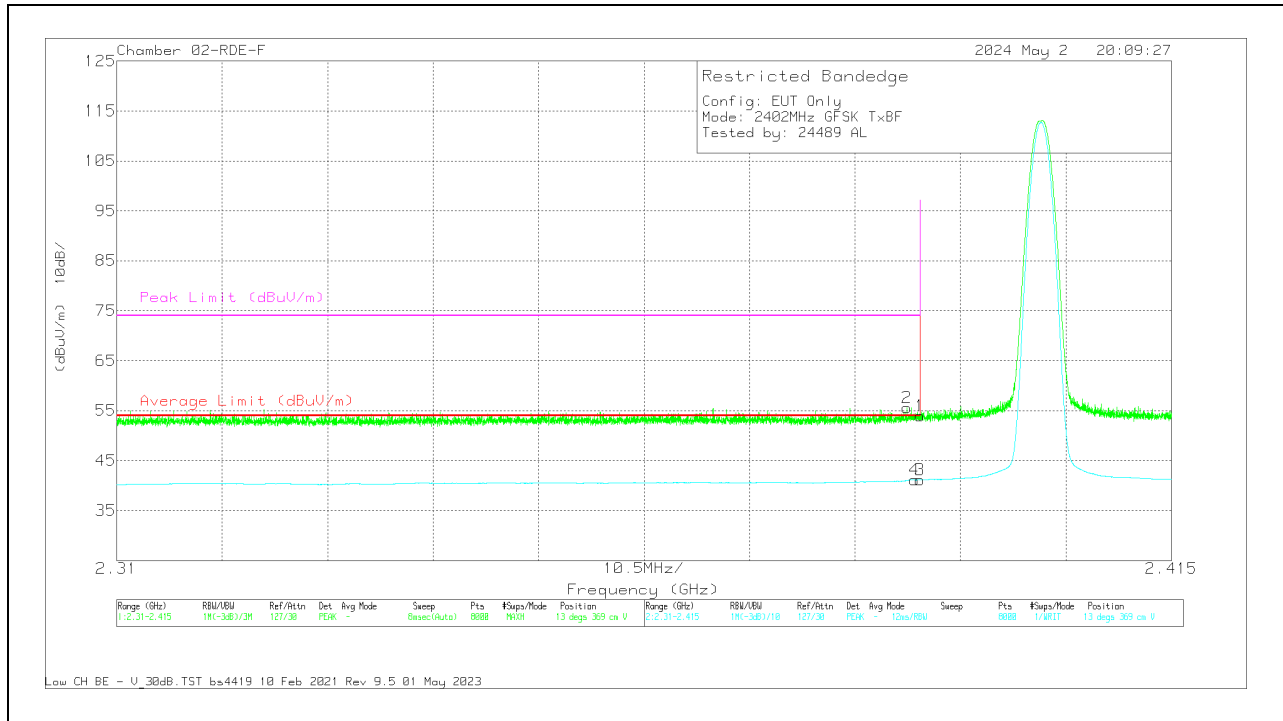
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.62	Pk	32.2	-38.9	52.92	-	-	74	-21.08	208	128	H
2	* 2.389431	60.85	Pk	32.2	-38.9	54.15	-	-	74	-19.85	208	128	H
3	* 2.39	47.02	VA1T	32.2	-38.9	40.32	54	-13.68	-	-	208	128	H
4	* 2.389957	47.03	VA1T	32.2	-38.9	40.33	54	-13.67	-	-	208	128	H

* - indicates frequency in CFR47 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 (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Amp/Cbl (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	60.68	Pk	32.2	-38.9	53.98	-	-	74	-20.02	13	369	V
2	* 2.38867	62.33	Pk	32.2	-38.9	55.63	-	-	74	-18.37	13	369	V
3	* 2.39	47.82	VA1T	32.2	-38.9	41.12	54	-12.88	-	-	13	369	V
4	* 2.389405	47.84	VA1T	32.2	-38.9	41.14	54	-12.86	-	-	13	369	V

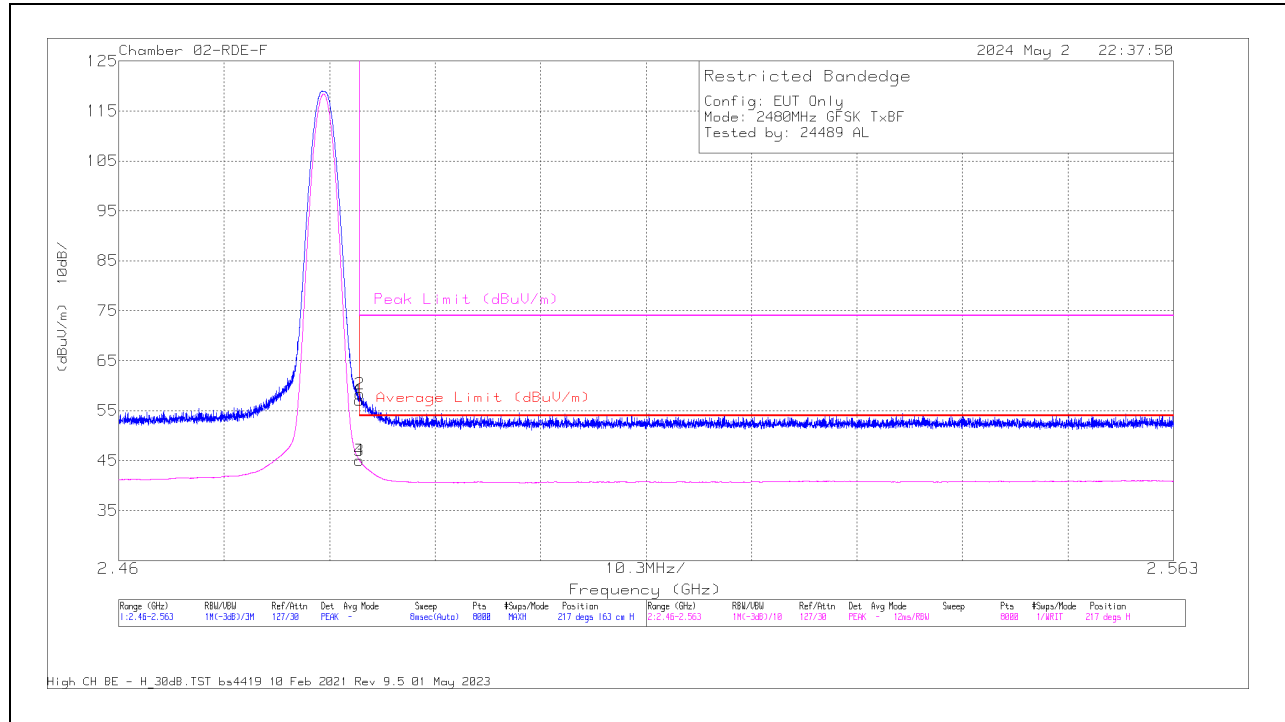
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



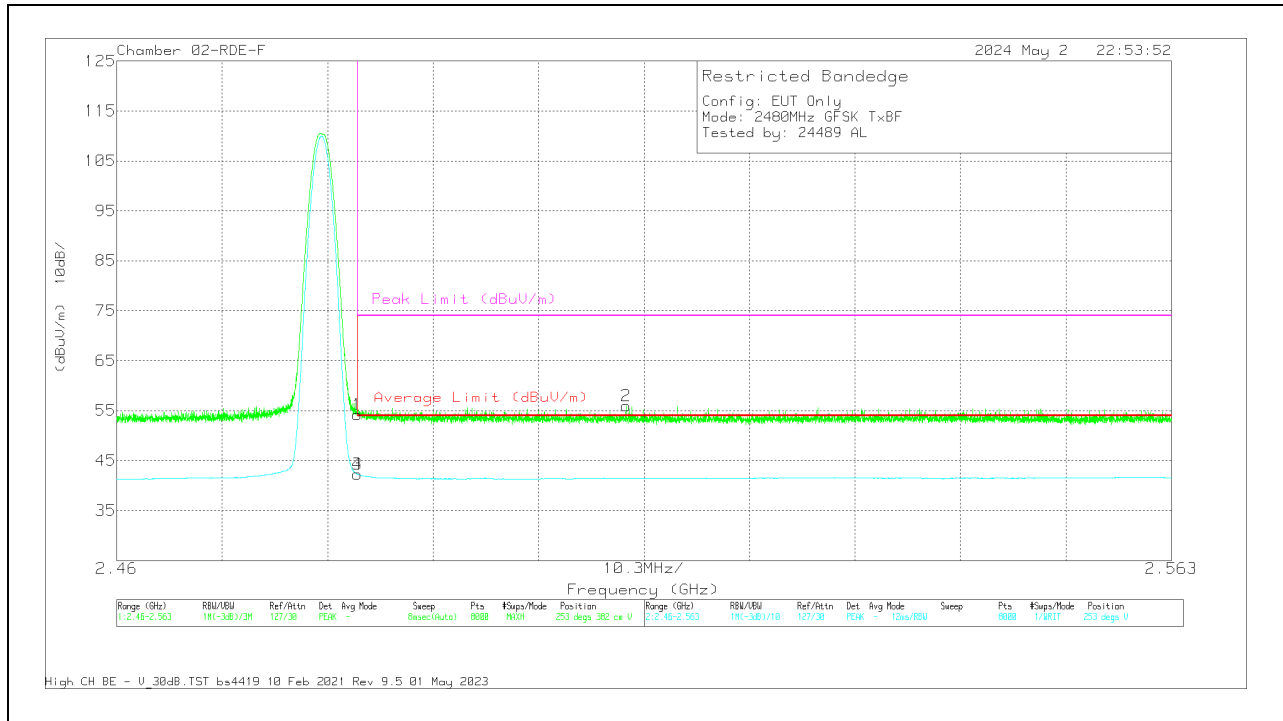
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	63.65	Pk	32.2	-38.7	57.15	-	-	74	-16.85	217	163	H
2	* 2.483565	64.86	Pk	32.2	-38.7	58.36	-	-	74	-15.64	217	163	H
3	* 2.4835	51.55	VA1T	32.2	-38.7	45.05	54	-8.95	-	-	217	163	H
4	* 2.483501	51.55	VA1T	32.2	-38.7	45.05	54	-8.95	-	-	217	163	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	206806 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.75	Pk	32.2	-38.7	54.25	-	-	74	-19.75	253	382	V
3	* 2.4835	48.79	VA1T	32.2	-38.7	42.29	54	-11.71	-	-	253	382	V
4	* 2.483501	48.79	VA1T	32.2	-38.7	42.29	54	-11.71	-	-	253	382	V
2	2.509731	62.34	Pk	32.2	-38.6	55.94	-	-	74	-18.06	253	382	V

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

Pk - Peak detector

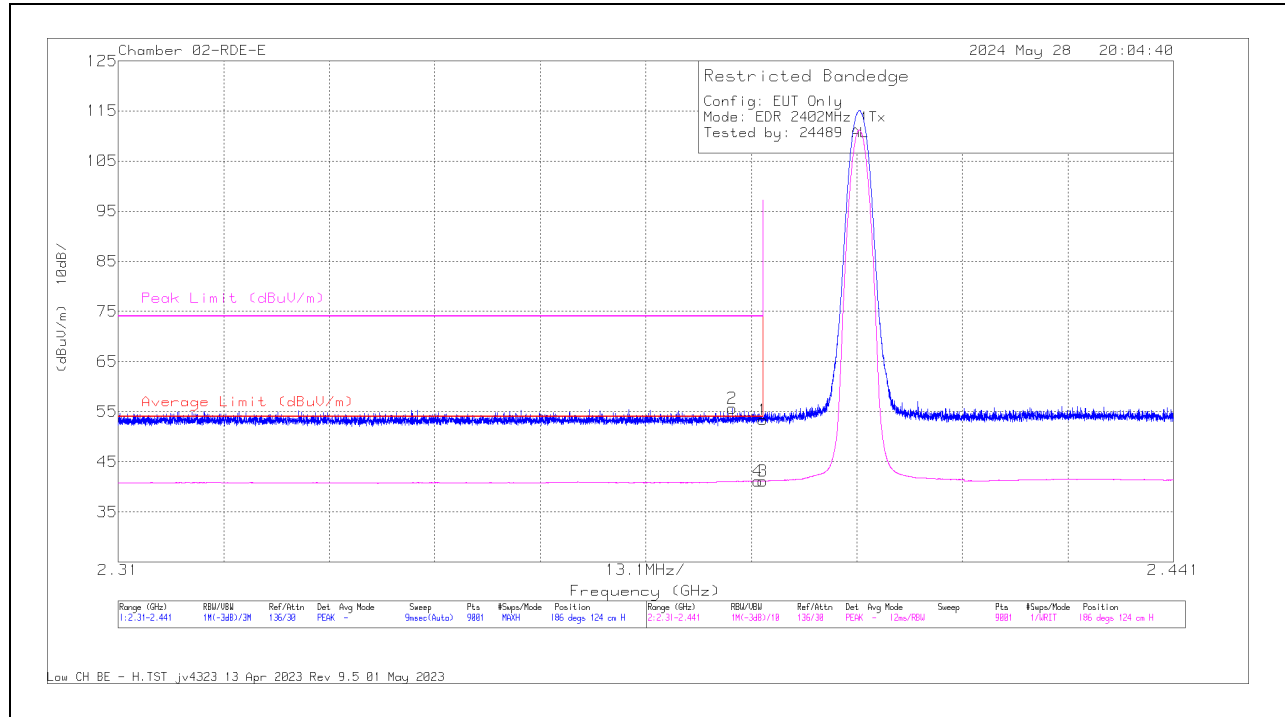
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



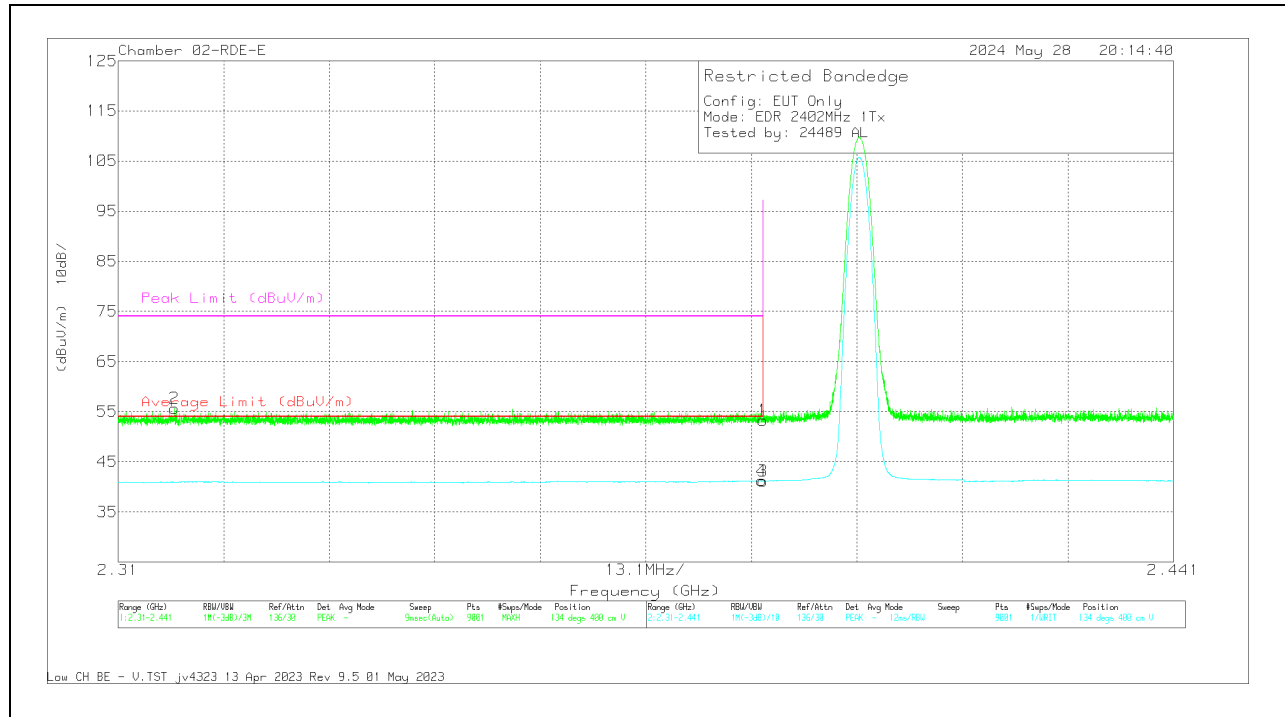
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.33	Pk	32.3	-39.27	53.36	-	-	74	-20.64	186	124	H
2	* 2.386215	62.61	Pk	32.3	-39.29	55.62	-	-	74	-18.38	186	124	H
3	* 2.39	48.14	VA1T	32.3	-39.27	41.17	54	-12.83	-	-	186	124	H
4	* 2.389418	48.17	VA1T	32.3	-39.28	41.19	54	-12.81	-	-	186	124	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	206807 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	60.24	Pk	32.3	-39.27	53.27	-	-	74	-20.73	134	400	V
2	* 2.317016	62.9	Pk	32.1	-39.34	55.66	-	-	74	-18.34	134	400	V
3	* 2.39	48.15	VA1T	32.3	-39.27	41.18	54	-12.82	-	-	134	400	V
4	* 2.389869	48.17	VA1T	32.3	-39.27	41.2	54	-12.8	-	-	134	400	V

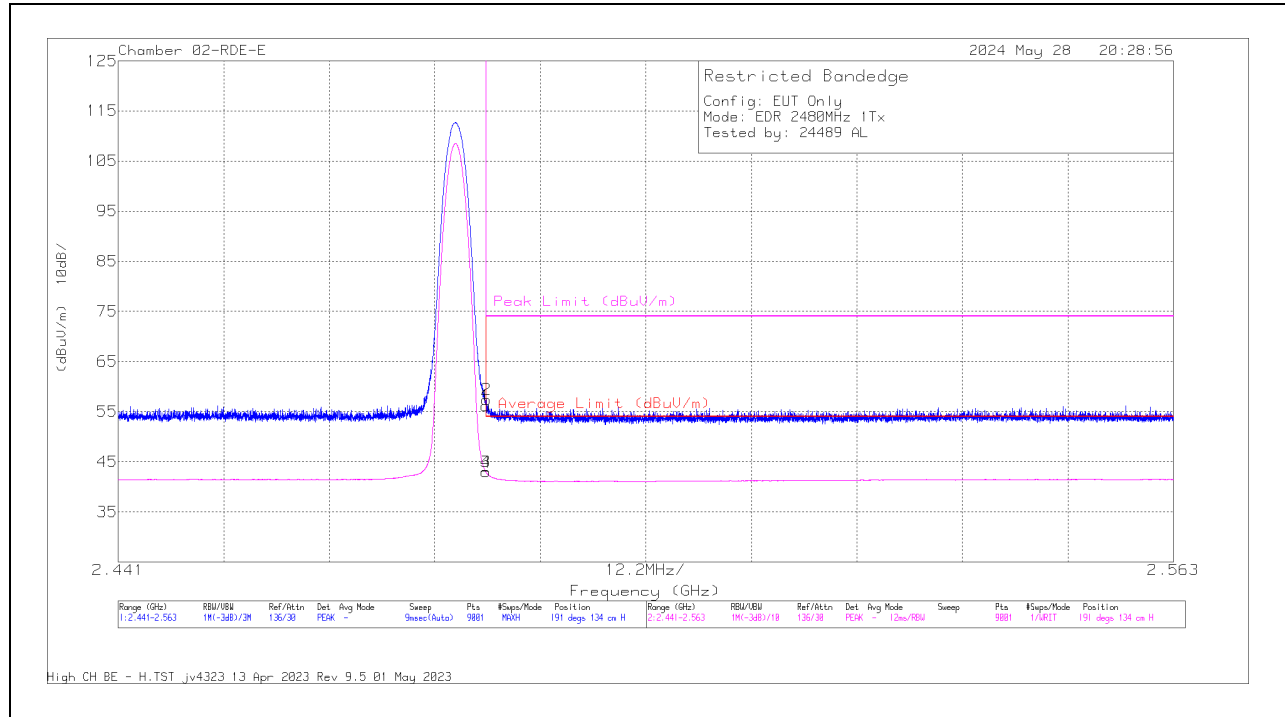
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



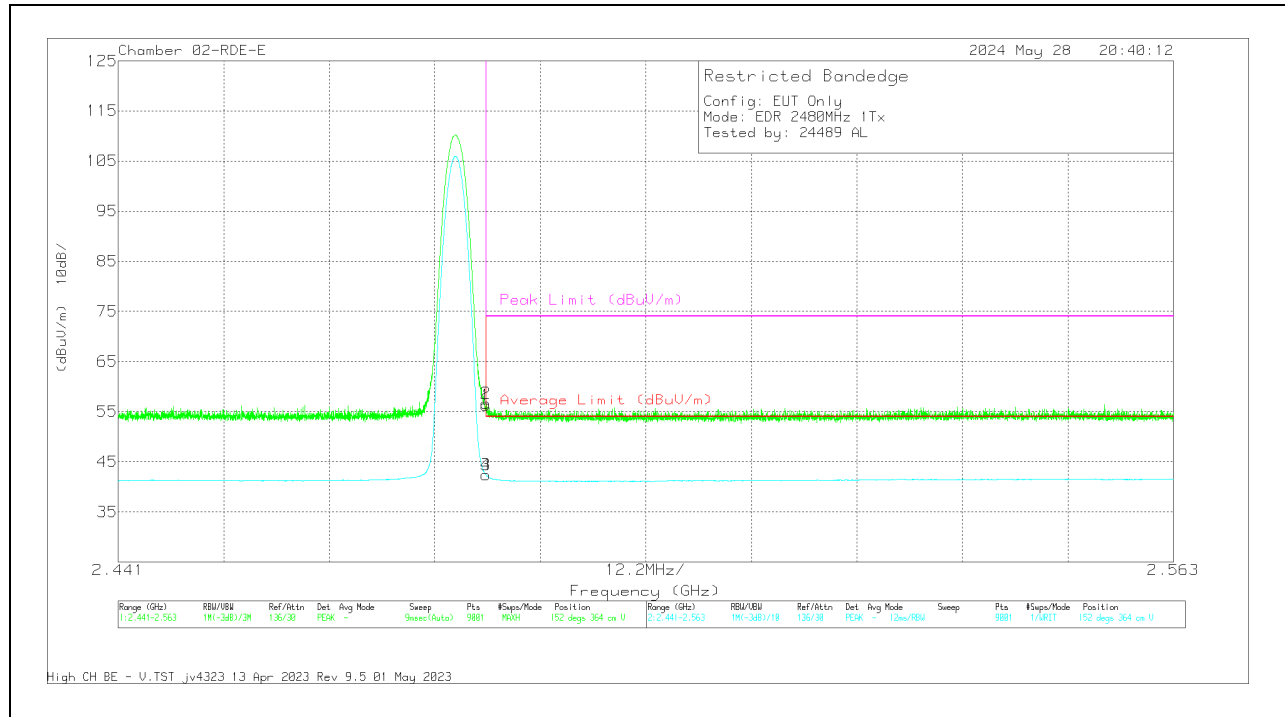
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.98	Pk	32.3	-39.16	56.12	-	-	74	-17.88	191	134	H
2	* 2.483607	64.29	Pk	32.3	-39.15	57.44	-	-	74	-16.56	191	134	H
3	* 2.4835	49.83	VA1T	32.3	-39.16	42.97	54	-11.03	-	-	191	134	H
4	* 2.483512	49.8	VA1T	32.3	-39.15	42.95	54	-11.05	-	-	191	134	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



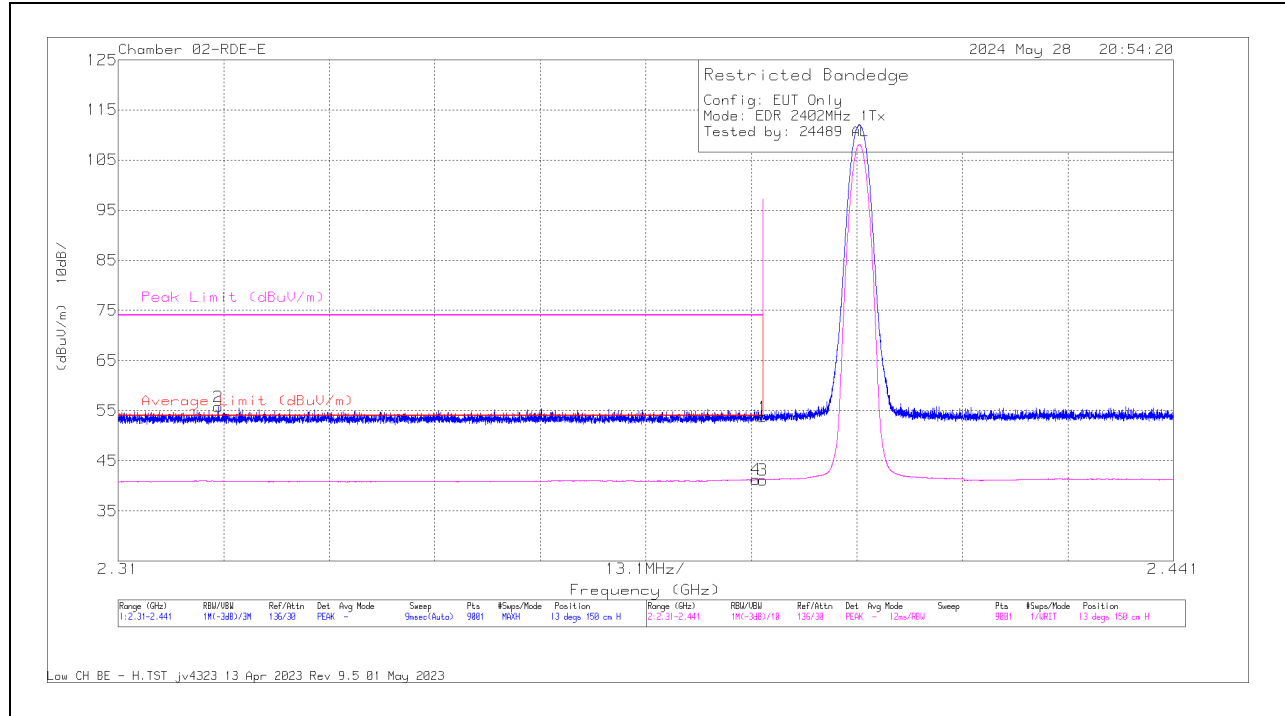
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	63.11	Pk	32.3	-39.16	56.25	-	-	74	-17.75	152	364	V
2	* 2.483539	63.51	Pk	32.3	-39.15	56.66	-	-	74	-17.34	152	364	V
3	* 2.4835	49.27	VA1T	32.3	-39.16	42.41	54	-11.59	-	-	152	364	V
4	* 2.483512	49.25	VA1T	32.3	-39.15	42.4	54	-11.6	-	-	152	364	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

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



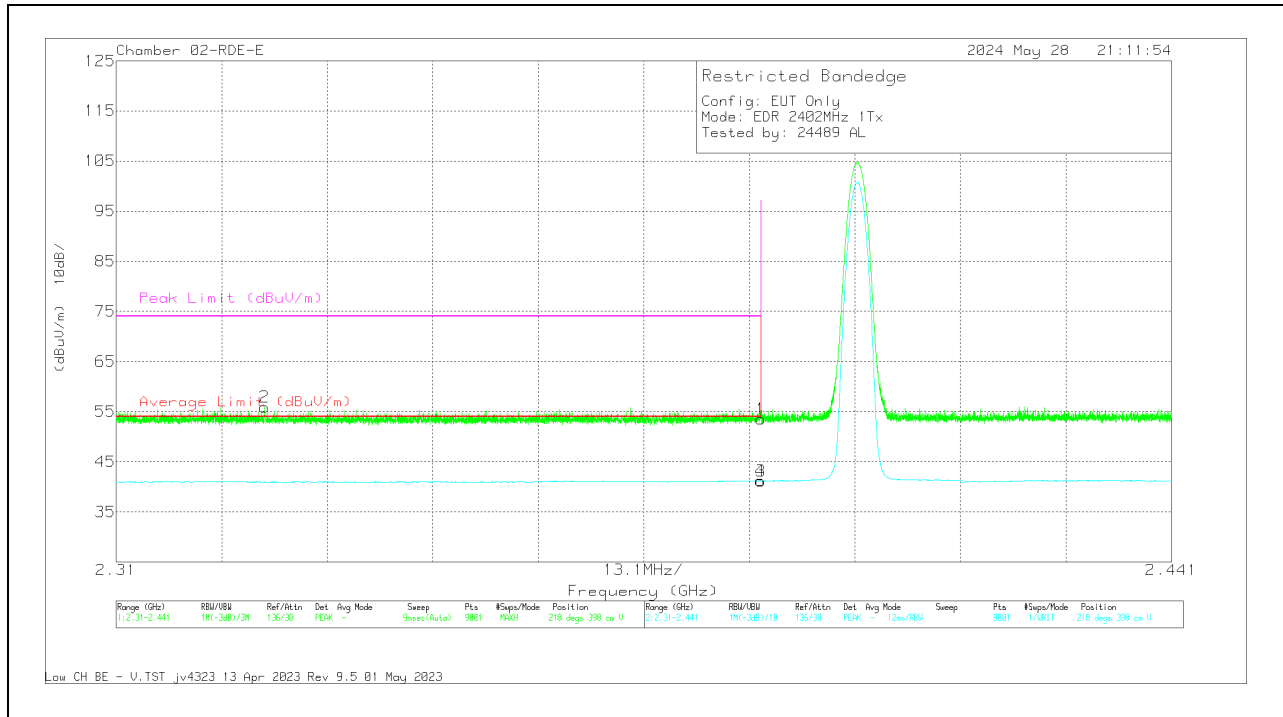
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.69	Pk	32.3	-39.27	53.72	-	-	74	-20.28	13	150	H
2	* 2.322431	62.93	Pk	32.1	-39.3	55.73	-	-	74	-18.27	13	150	H
3	* 2.39	48.16	VA1T	32.3	-39.27	41.19	54	-12.81	-	-	13	150	H
4	* 2.389214	48.21	VA1T	32.3	-39.28	41.23	54	-12.77	-	-	13	150	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

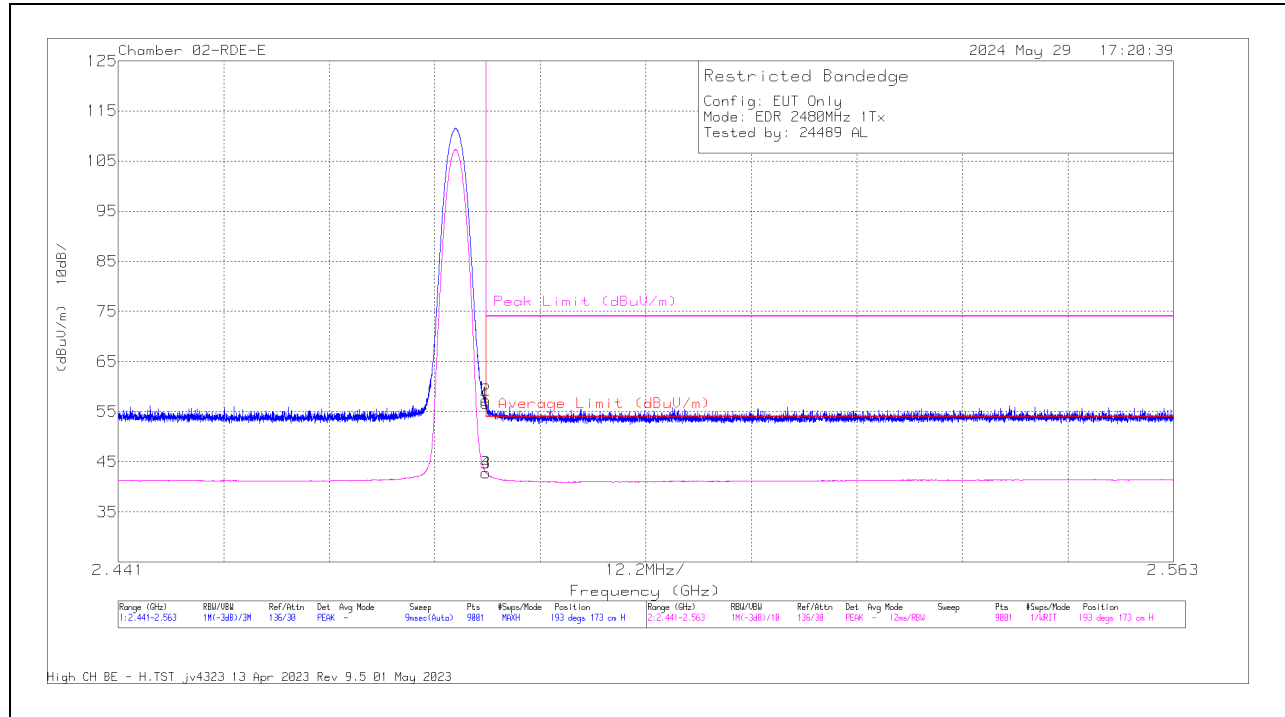


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.51	Pk	32.3	-39.27	53.54	-	-	74	-20.46	218	398	V
2	* 2.328384	63.12	Pk	32.1	-39.31	55.91	-	-	74	-18.09	218	398	V
3	* 2.39	48.16	VA1T	32.3	-39.27	41.19	54	-12.81	-	-	218	398	V
4	* 2.389971	48.17	VA1T	32.3	-39.27	41.2	54	-12.8	-	-	218	398	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



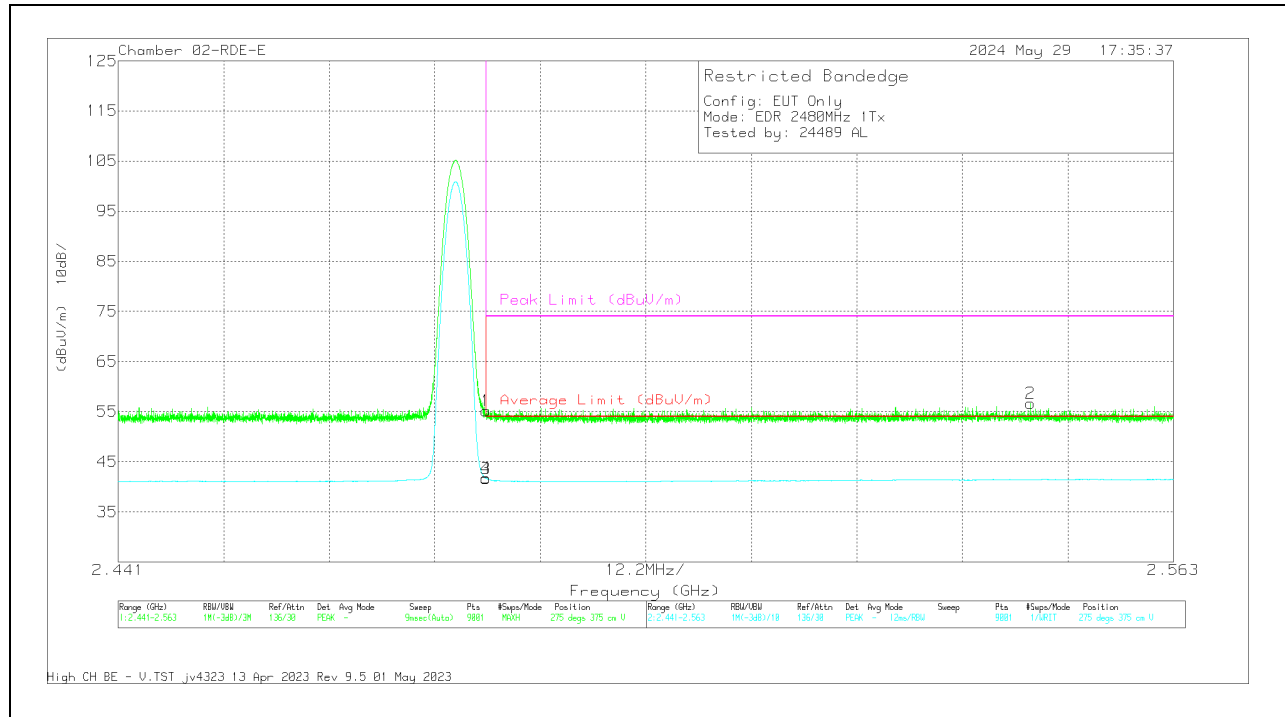
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	63.53	Pk	32.3	-39.16	56.67	-	-	74	-17.33	193	173	H
2	* 2.483512	64.17	Pk	32.3	-39.15	57.32	-	-	74	-16.68	193	173	H
3	* 2.4835	49.66	VA1T	32.3	-39.16	42.8	54	-11.2	-	-	193	173	H
4	* 2.483512	49.65	VA1T	32.3	-39.15	42.8	54	-11.2	-	-	193	173	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



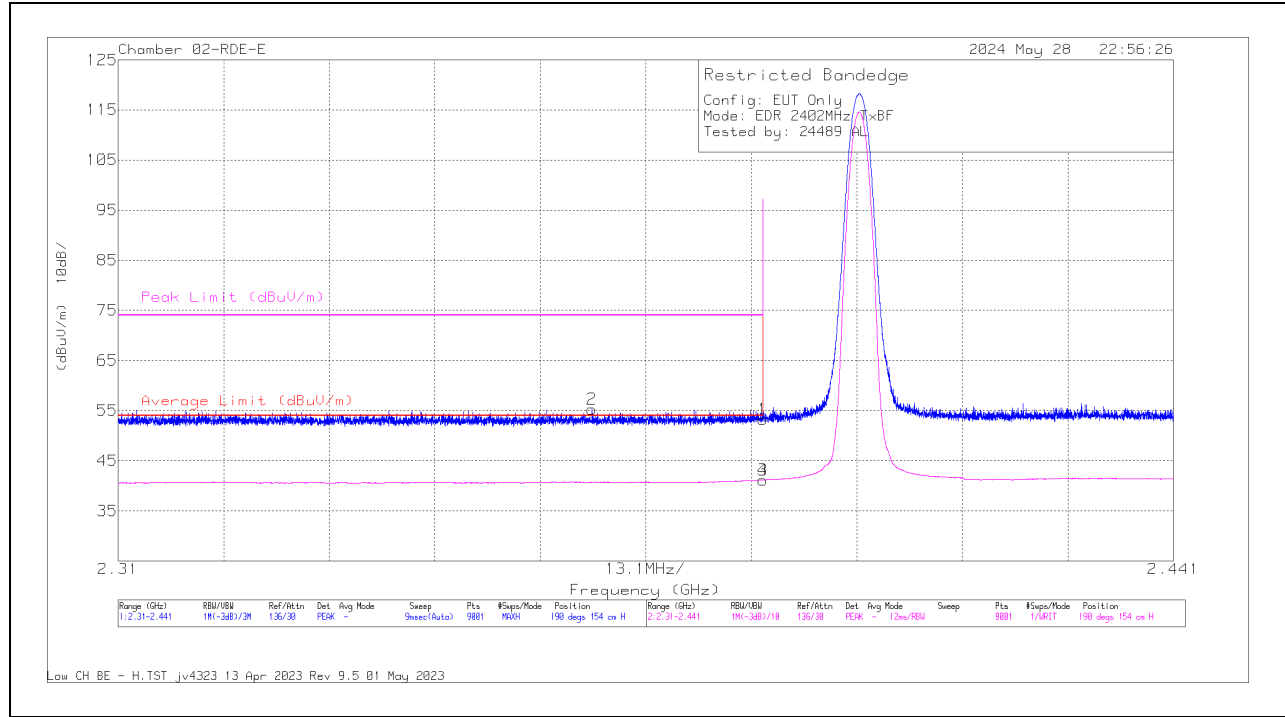
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.06	Pk	32.3	-39.16	55.2	-	-	74	-18.8	275	375	V
3	* 2.4835	48.55	VA1T	32.3	-39.16	41.69	54	-12.31	-	-	275	375	V
4	* 2.483512	48.55	VA1T	32.3	-39.15	41.7	54	-12.3	-	-	275	375	V
2	2.546493	63.24	Pk	32.5	-39.03	56.71	-	-	74	-17.29	275	375	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

10.1.4. HIGH POWER ENHANCED DATA RATE TXBF 8PSK

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



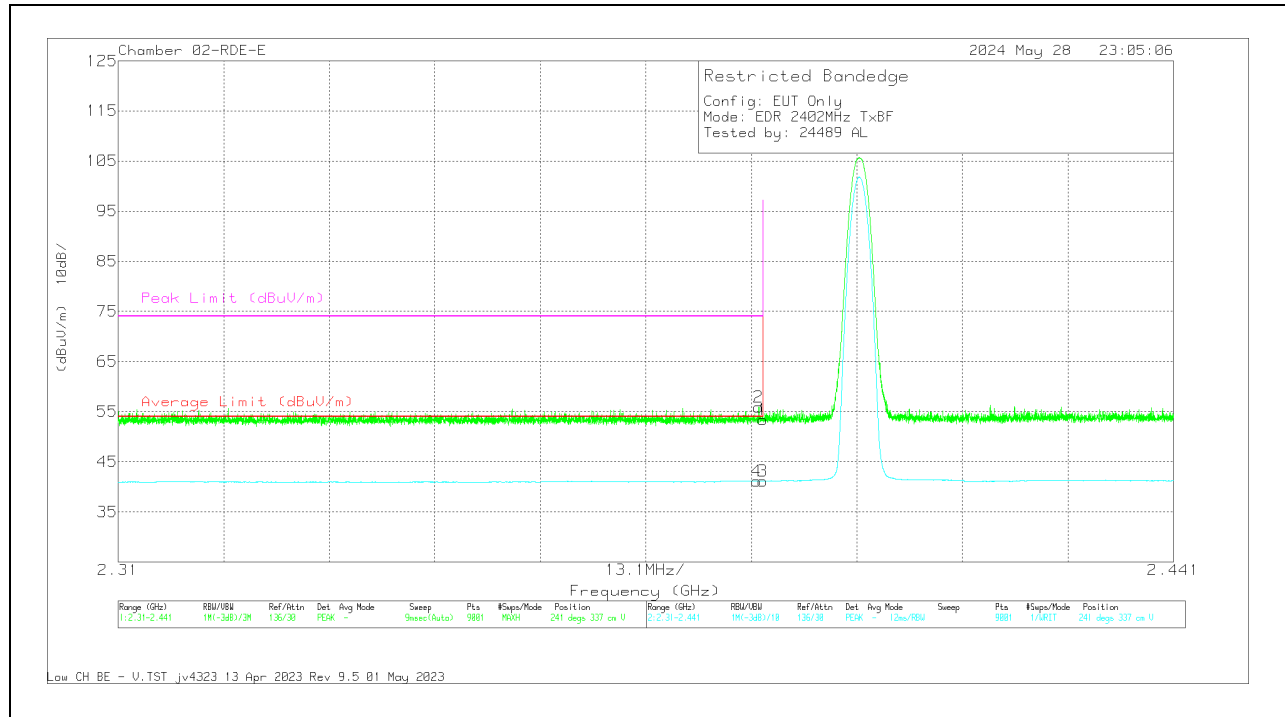
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.29	Pk	32.3	-39.27	53.32	-	-	74	-20.68	190	154	H
2	* 2.368821	62.41	Pk	32.2	-39.31	55.3	-	-	74	-18.7	190	154	H
3	* 2.39	48.13	VA1T	32.3	-39.27	41.16	54	-12.84	-	-	190	154	H
4	* 2.39	48.13	VA1T	32.3	-39.27	41.16	54	-12.84	-	-	190	154	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

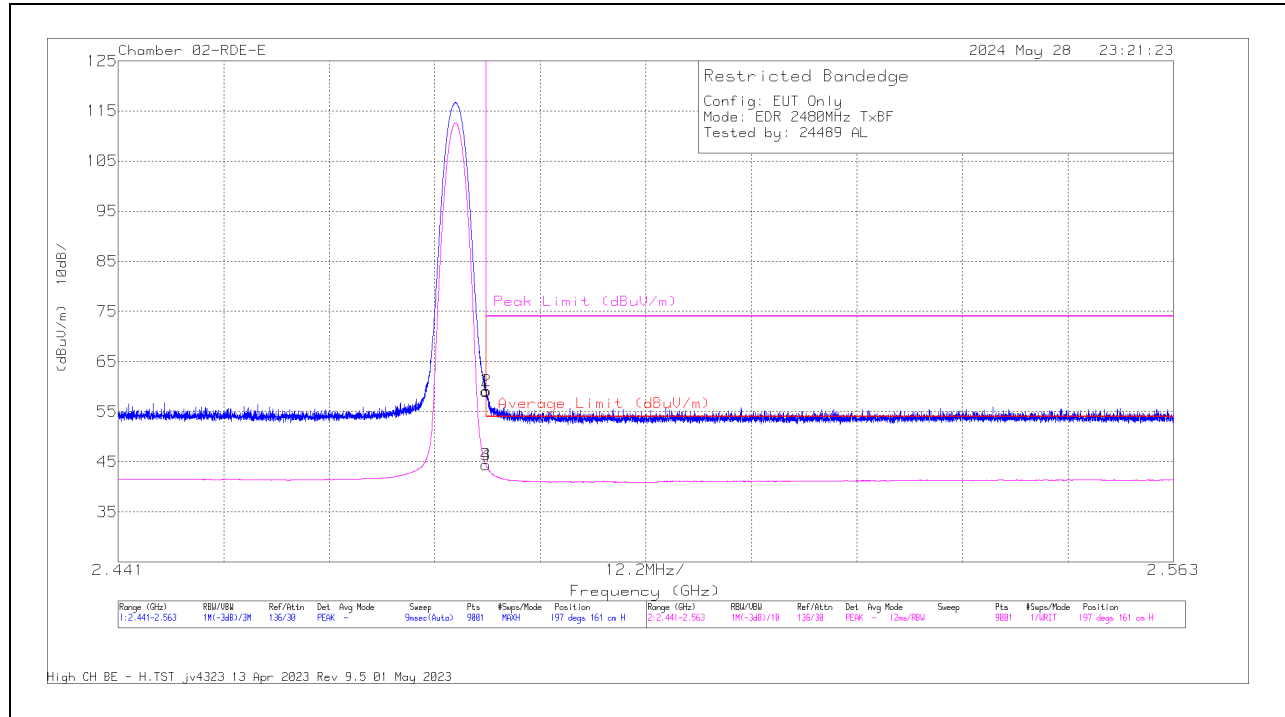


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.41	Pk	32.3	-39.27	53.44	-	-	74	-20.56	241	337	V
2	* 2.389519	62.87	Pk	32.3	-39.27	55.9	-	-	74	-18.1	241	337	V
3	* 2.39	48.13	VA1T	32.3	-39.27	41.16	54	-12.84	-	-	241	337	V
4	* 2.389243	48.16	VA1T	32.3	-39.28	41.18	54	-12.82	-	-	241	337	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)

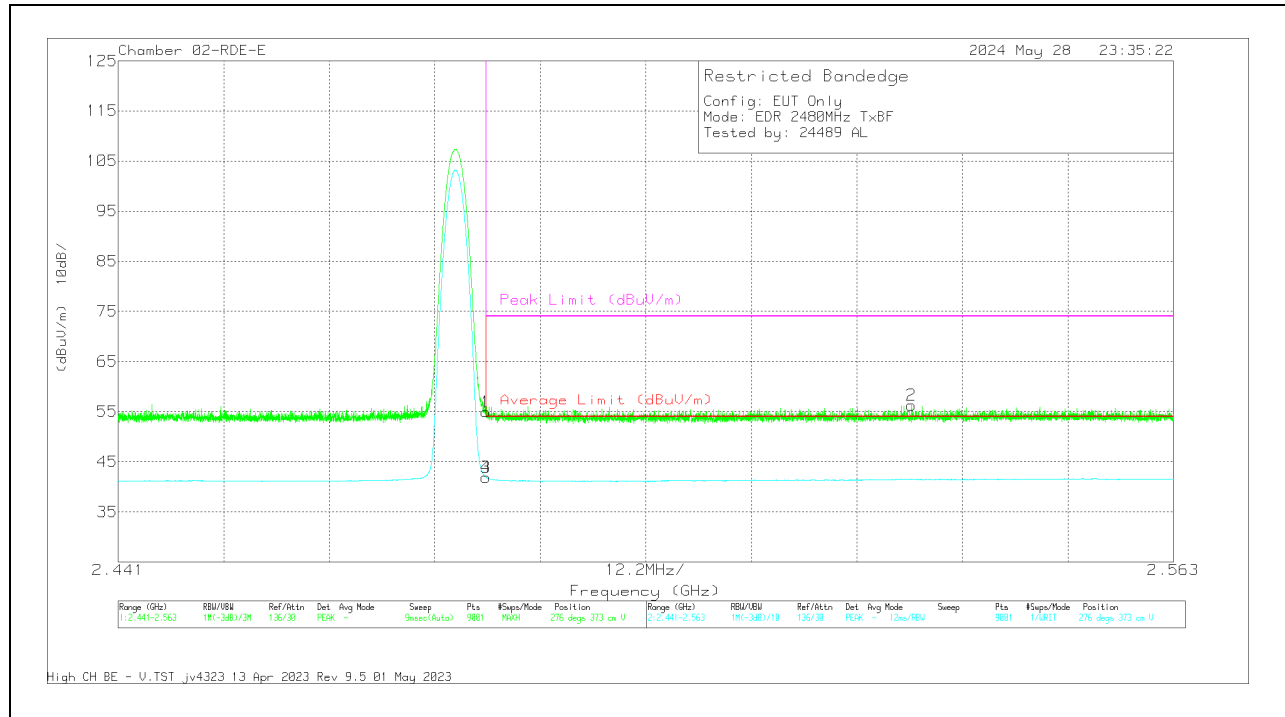
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 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	65.89	Pk	32.3	-39.16	59.03	-	-	74	-14.97	197	161	H
2	* 2.483607	66.05	Pk	32.3	-39.15	59.2	-	-	74	-14.8	197	161	H
3	* 2.4835	51.21	VA1T	32.3	-39.16	44.35	54	-9.65	-	-	197	161	H
4	* 2.483512	51.18	VA1T	32.3	-39.15	44.33	54	-9.67	-	-	197	161	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	206807 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	61.83	Pk	32.3	-39.16	54.97	-	-	74	-19.03	276	373	V
3	* 2.4835	48.78	VA1T	32.3	-39.16	41.92	54	-12.08	-	-	276	373	V
4	* 2.483512	48.77	VA1T	32.3	-39.15	41.92	54	-12.08	-	-	276	373	V
2	*2.532733	62.85	Pk	32.5	-39.06	56.29	-	-	74	-17.71	276	373	V

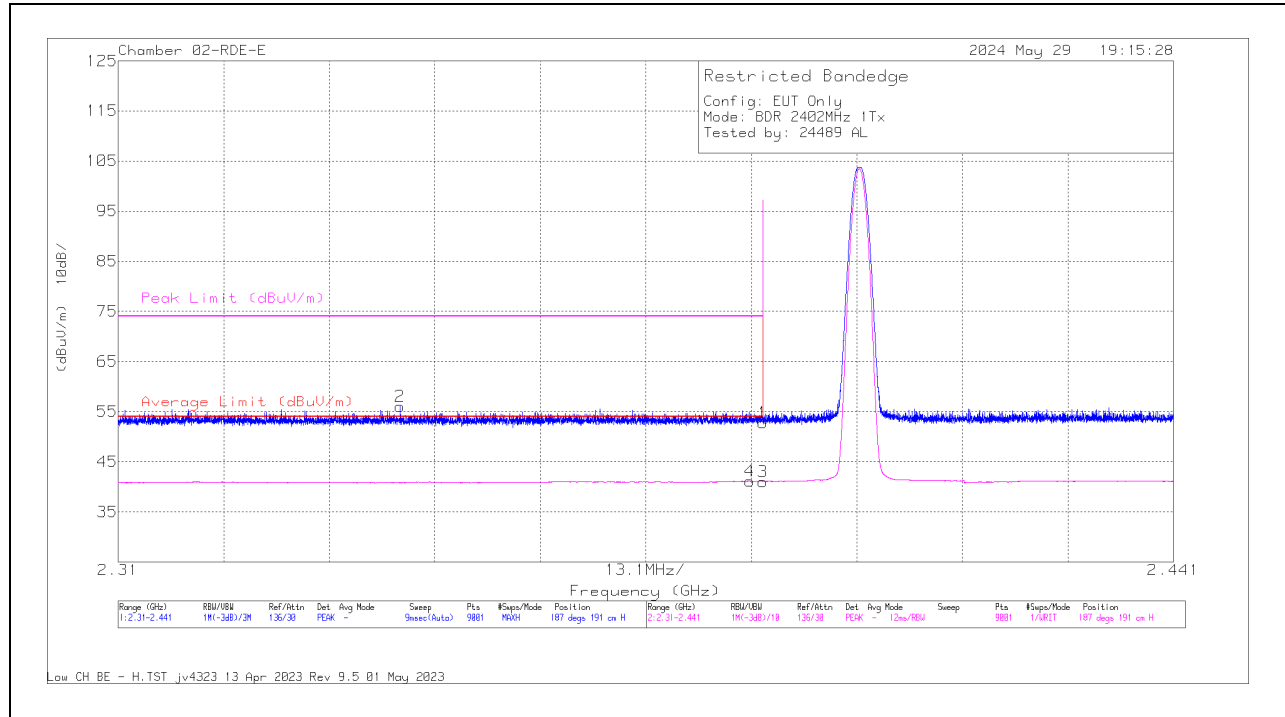
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.5. LOW POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



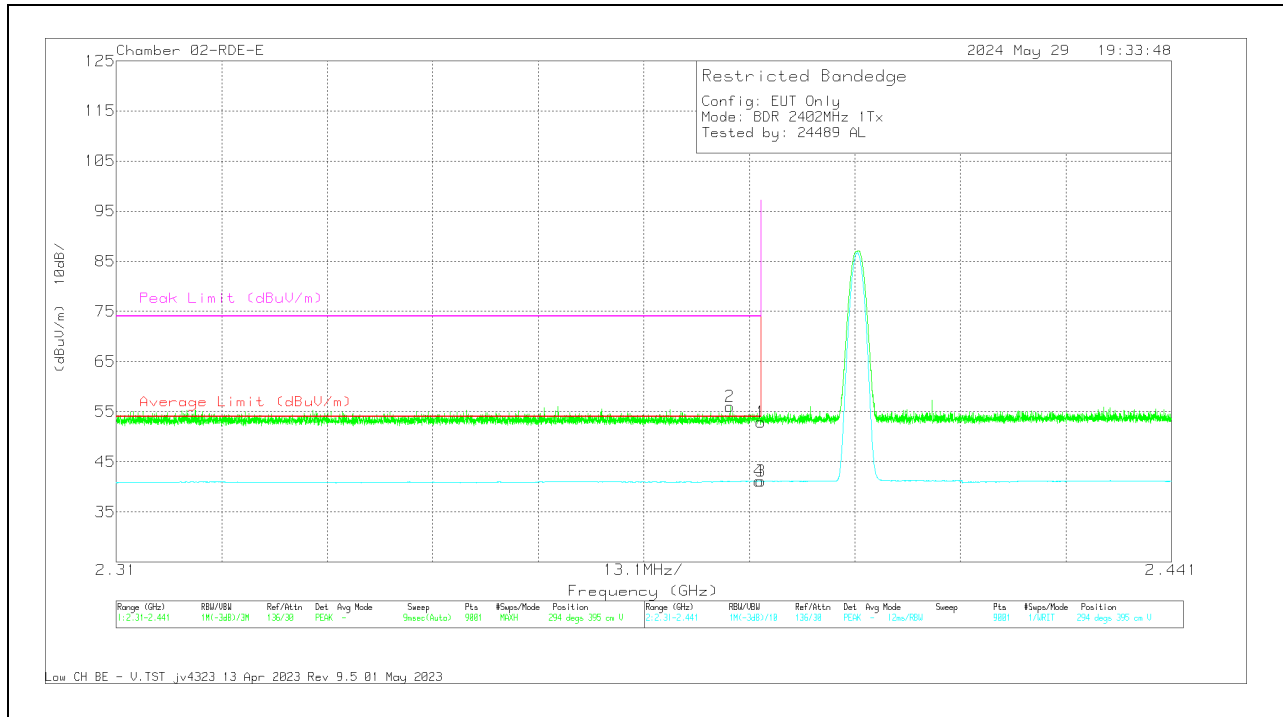
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.74	Pk	32.3	-39.27	52.77	-	-	74	-21.23	187	191	H
2	* 2.345007	63.18	Pk	32.1	-39.28	56	-	-	74	-18	187	191	H
3	* 2.39	48.01	VA1T	32.3	-39.27	41.04	54	-12.96	-	-	187	191	H
4	* 2.388399	48.09	VA1T	32.3	-39.28	41.11	54	-12.89	-	-	187	191	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	206807 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	59.85	Pk	32.3	-39.27	52.88	-	-	74	-21.12	294	395	V
2	* 2.386186	63.04	Pk	32.3	-39.29	56.05	-	-	74	-17.95	294	395	V
3	* 2.39	48.07	VA1T	32.3	-39.27	41.1	54	-12.9	-	-	294	395	V
4	* 2.389796	48.09	VA1T	32.3	-39.27	41.12	54	-12.88	-	-	294	395	V

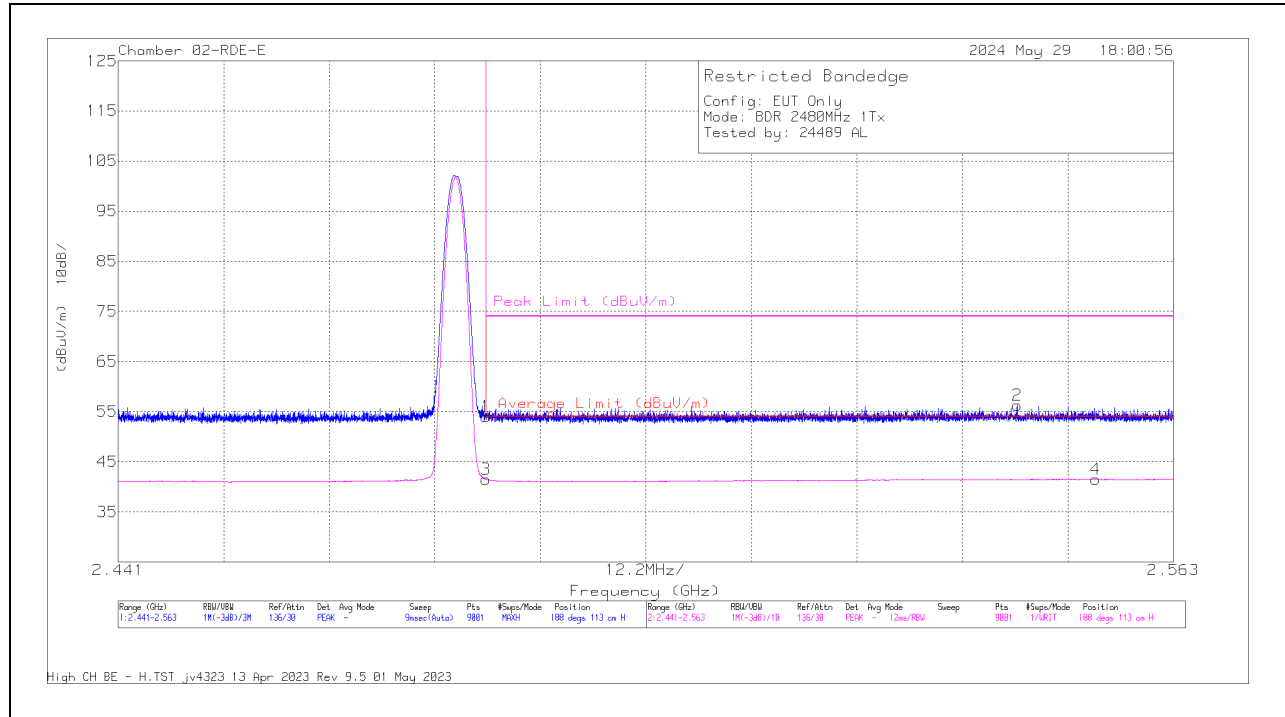
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



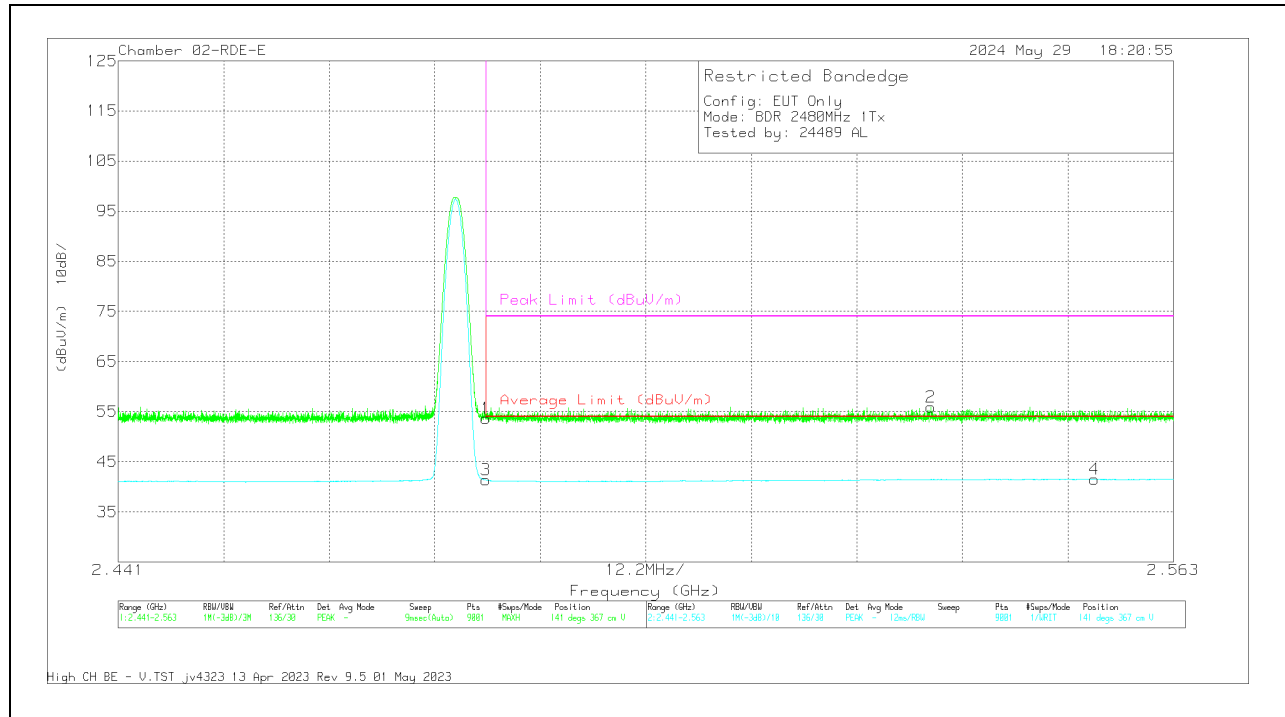
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.89	Pk	32.3	-39.16	54.03	-	-	74	-19.97	188	113	H
3	* 2.4835	48.37	VA1T	32.3	-39.16	41.51	54	-12.49	-	-	188	113	H
2	2.54492	62.8	Pk	32.5	-39.03	56.27	-	-	74	-17.73	188	113	H
4	2.553989	48.07	VA1T	32.5	-39.02	41.55	54	-12.45	-	-	188	113	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



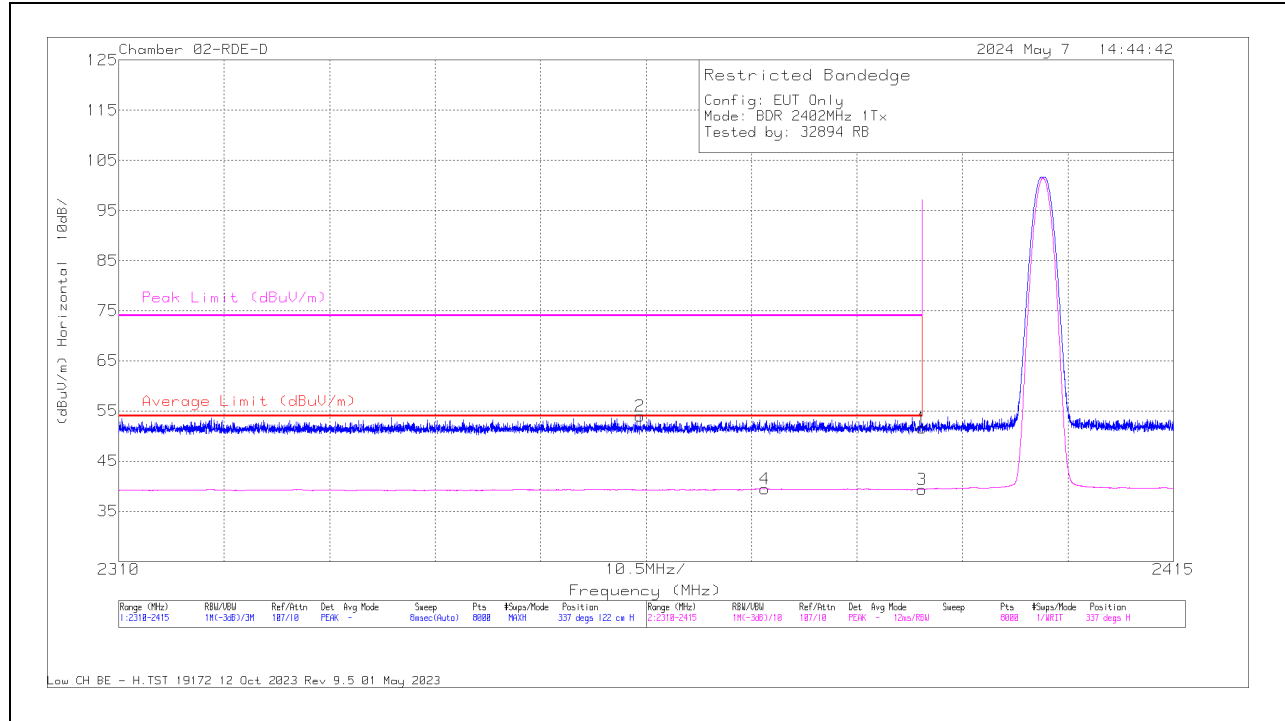
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.51	Pk	32.3	-39.16	53.65	-	-	74	-20.35	141	367	V
3	* 2.4835	48.22	VA1T	32.3	-39.16	41.36	54	-12.64	-	-	141	367	V
2	2.53497	62.43	Pk	32.5	-39.05	55.88	-	-	74	-18.12	141	367	V
4	2.553894	48.08	VA1T	32.5	-39.02	41.56	54	-12.44	-	-	141	367	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

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



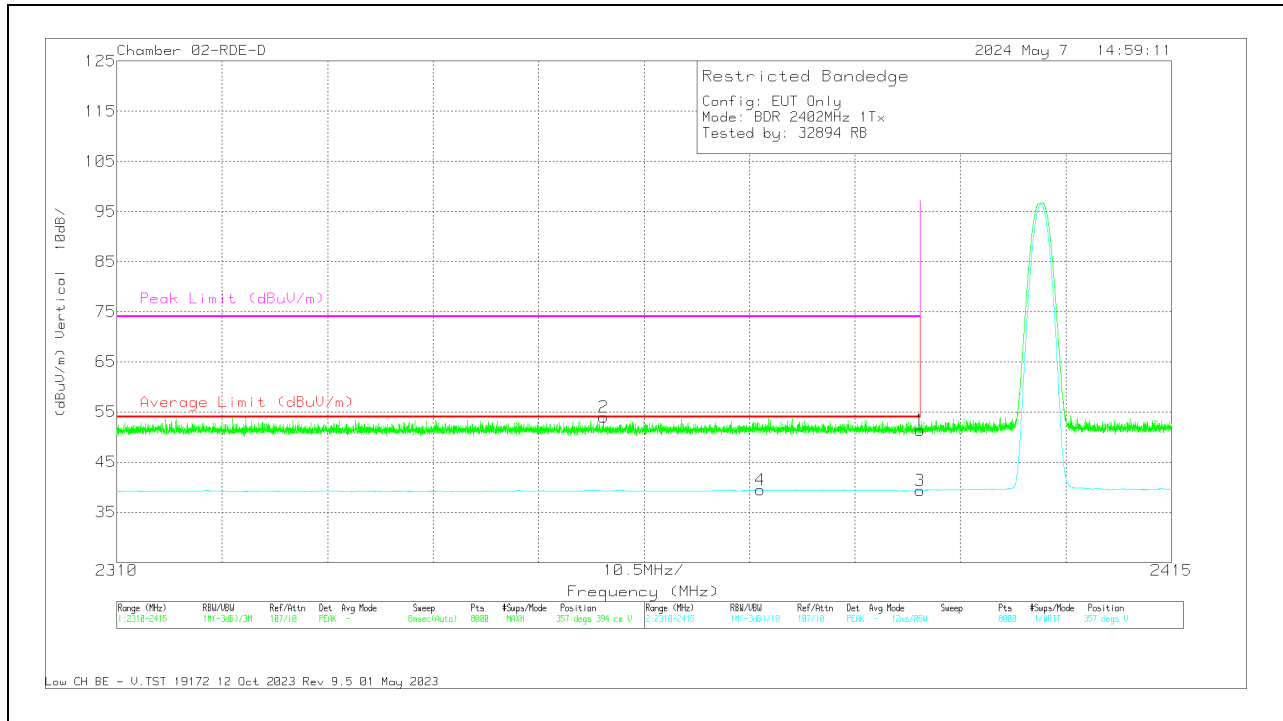
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	38.97	Pk	32.2	-19.6	51.57	-	-	74	-22.43	337	122	H
2	* 2361.904	41.54	Pk	32.1	-19.7	53.94	-	-	74	-20.06	337	122	H
3	* 2390	26.78	VA1T	32.2	-19.6	39.38	54	-14.62	-	-	337	122	H
4	* 2374.349	26.89	VA1T	32.2	-19.6	39.49	54	-14.51	-	-	337	122	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 (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	38.75	Pk	32.2	-19.6	51.35	-	-	74	-22.65	357	394	V
2	* 2358.452	41.53	Pk	32.1	-19.6	54.03	-	-	74	-19.97	357	394	V
3	* 2390	26.74	VA1T	32.2	-19.6	39.34	54	-14.66	-	-	357	394	V
4	* 2374.047	26.84	VA1T	32.2	-19.6	39.44	54	-14.56	-	-	357	394	V

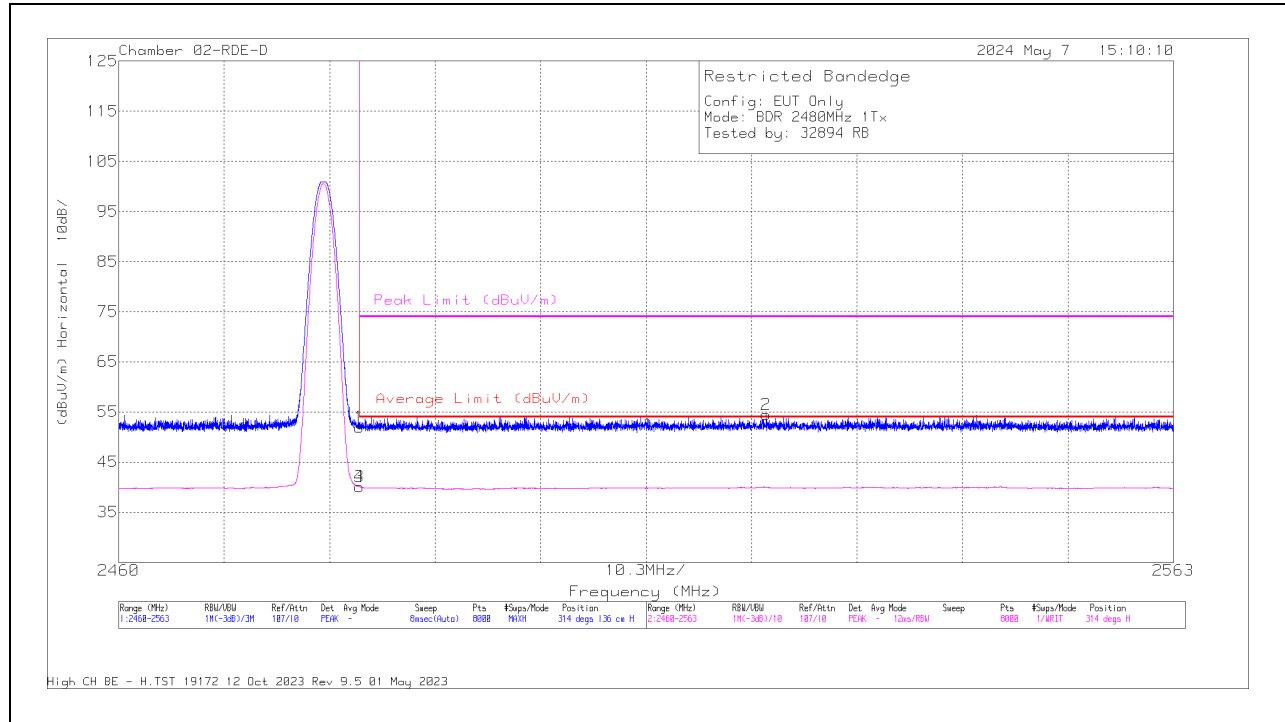
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



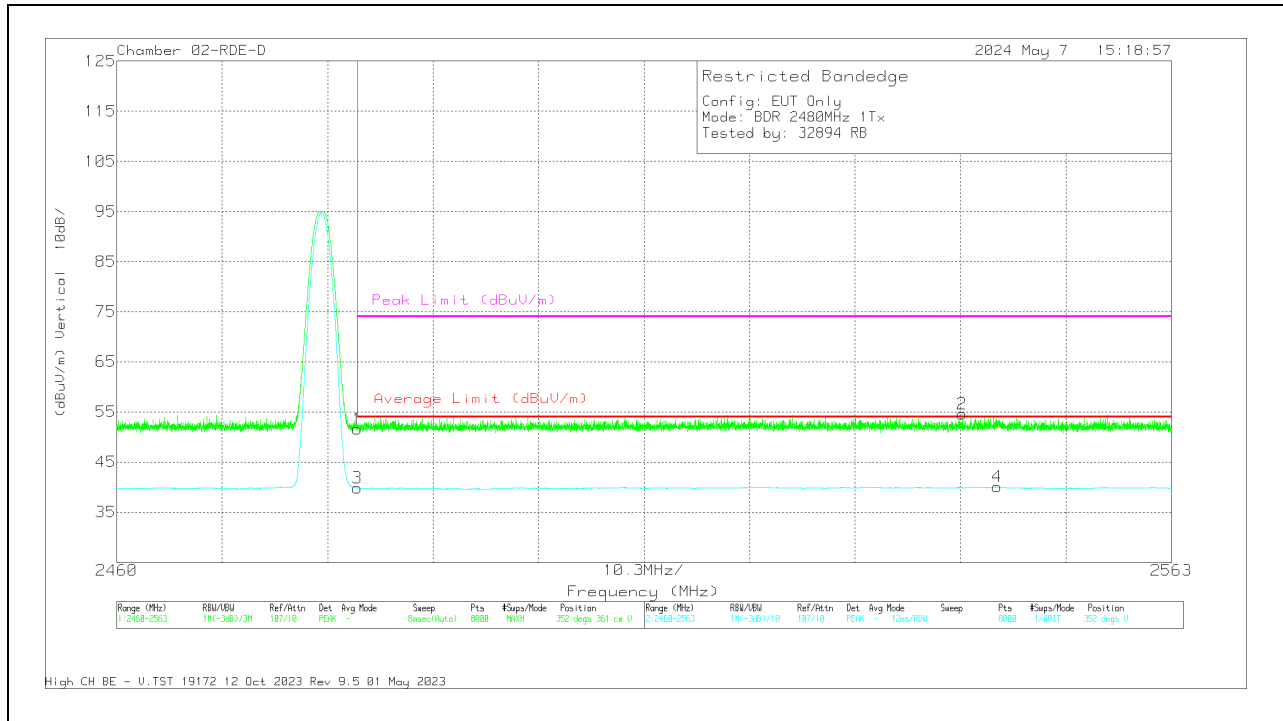
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	39.21	Pk	32.4	-19.6	52.01	-	-	74	-21.99	314	136	H
3	* 2483.5	27.27	VA1T	32.4	-19.6	40.07	54	-13.93	-	-	314	136	H
4	* 2483.501	27.27	VA1T	32.4	-19.6	40.07	54	-13.93	-	-	314	136	H
2	2523.226	41.24	Pk	32.4	-19.2	54.44	-	-	74	-19.56	314	136	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 (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (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	38.82	Pk	32.4	-19.6	51.62	-	-	74	-22.38	352	361	V
3	* 2483.5	27	VA1T	32.4	-19.6	39.8	54	-14.2	-	-	352	361	V
2	2542.58	41.53	Pk	32.4	-19.3	54.63	-	-	74	-19.37	352	361	V
4	2546.005	26.85	VA1T	32.4	-19.2	40.05	54	-13.95	-	-	352	361	V

* - indicates frequency in CFR47 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