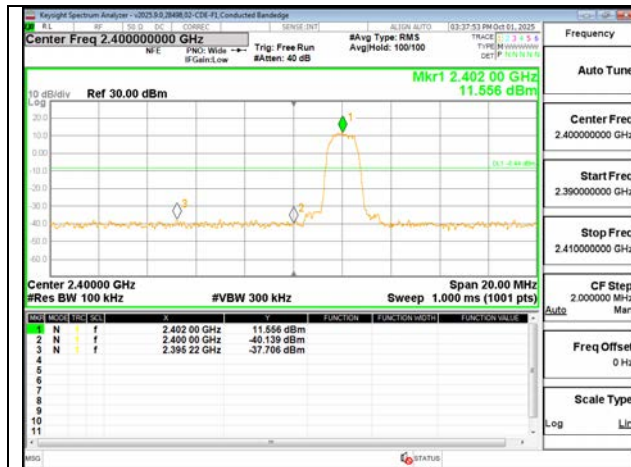
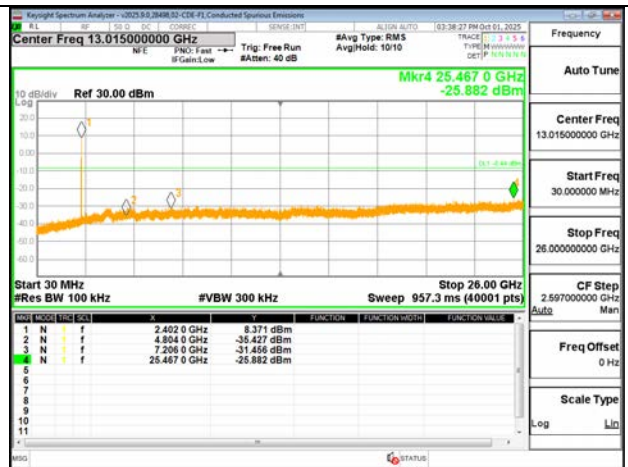
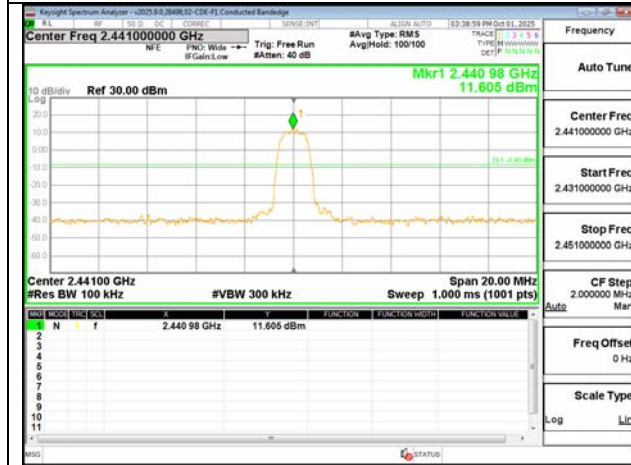
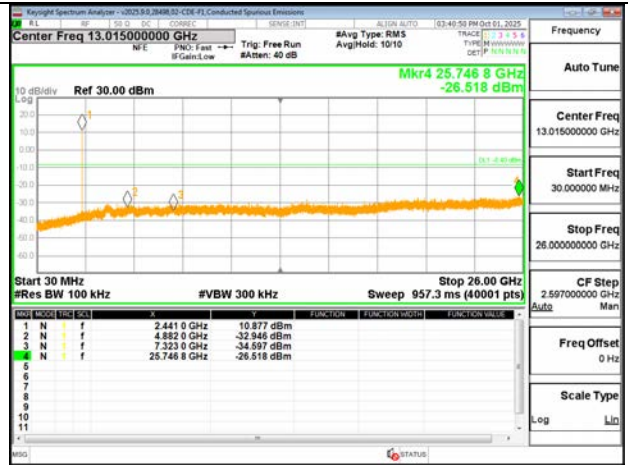
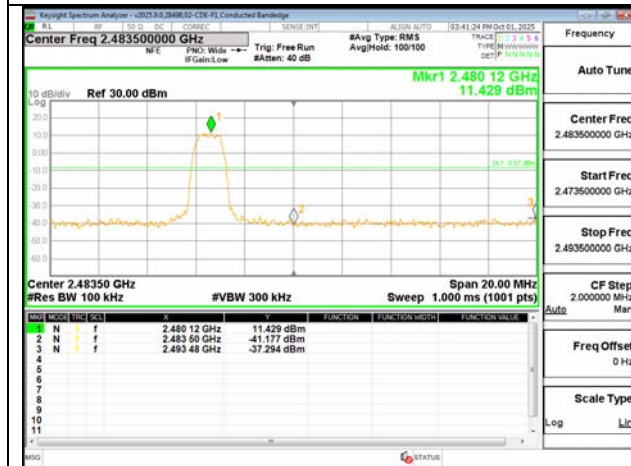
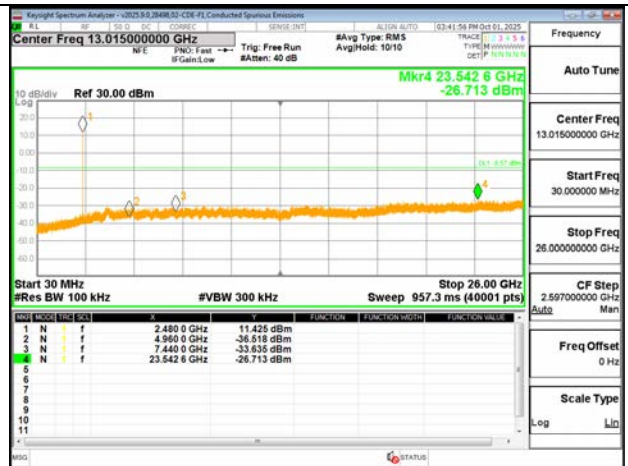
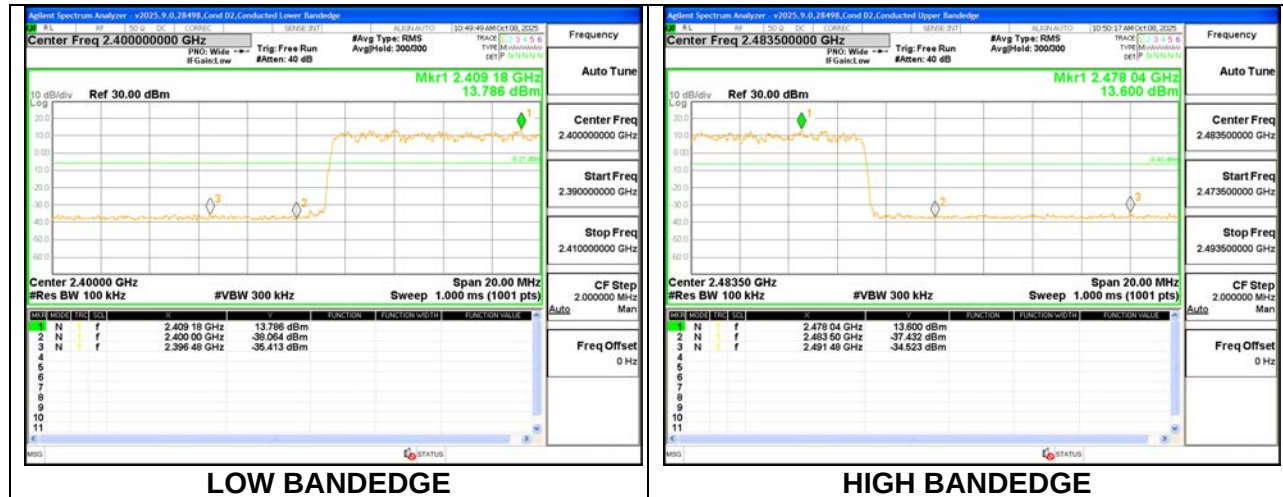
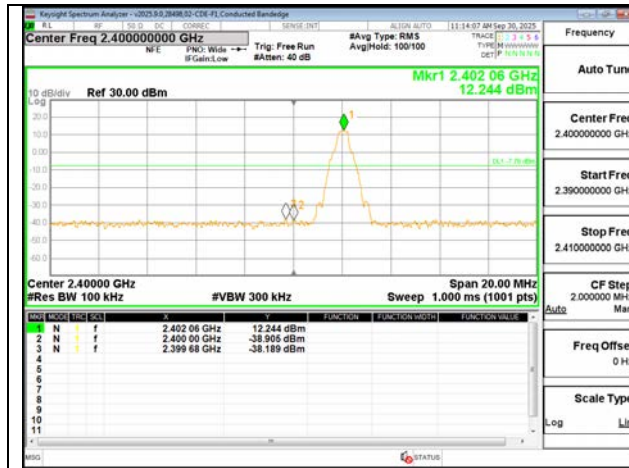
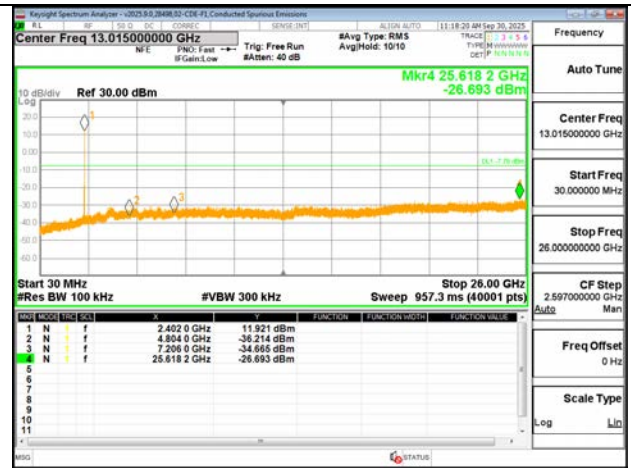
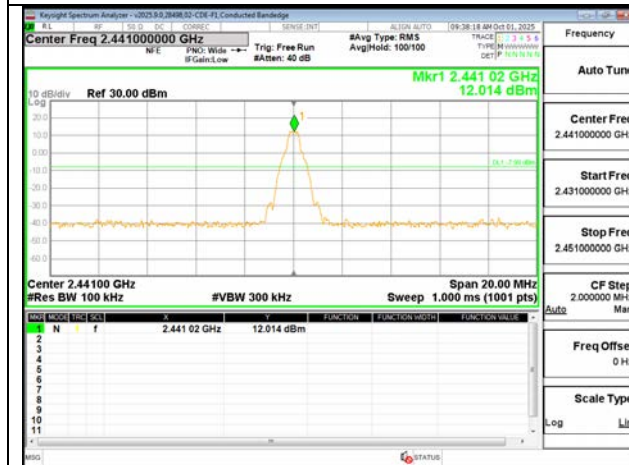
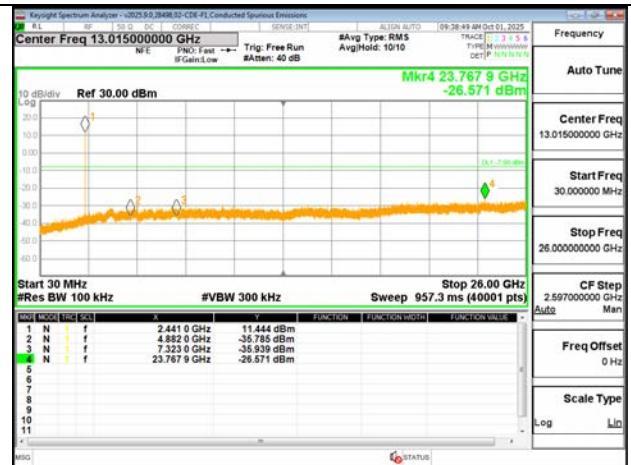
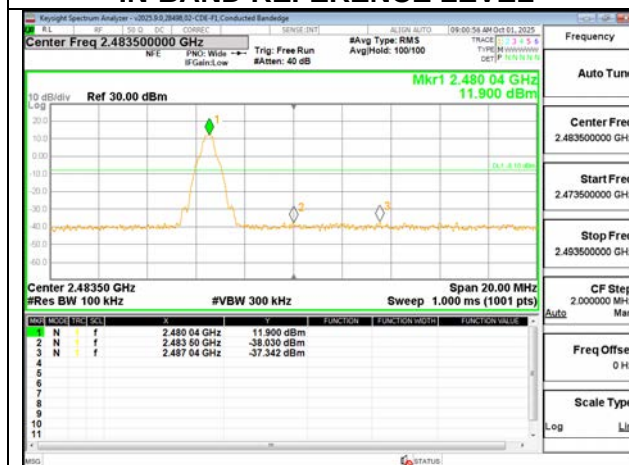
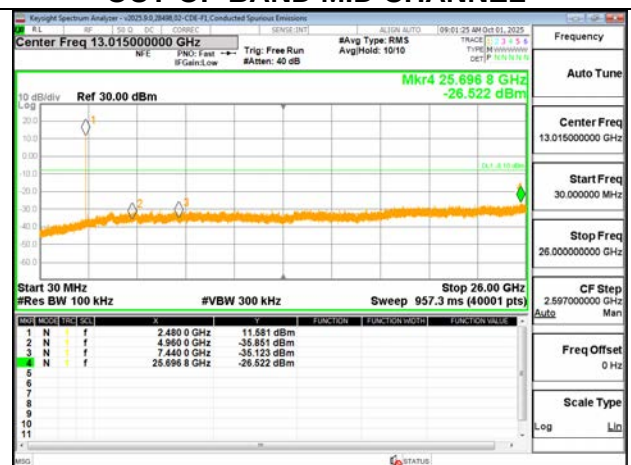


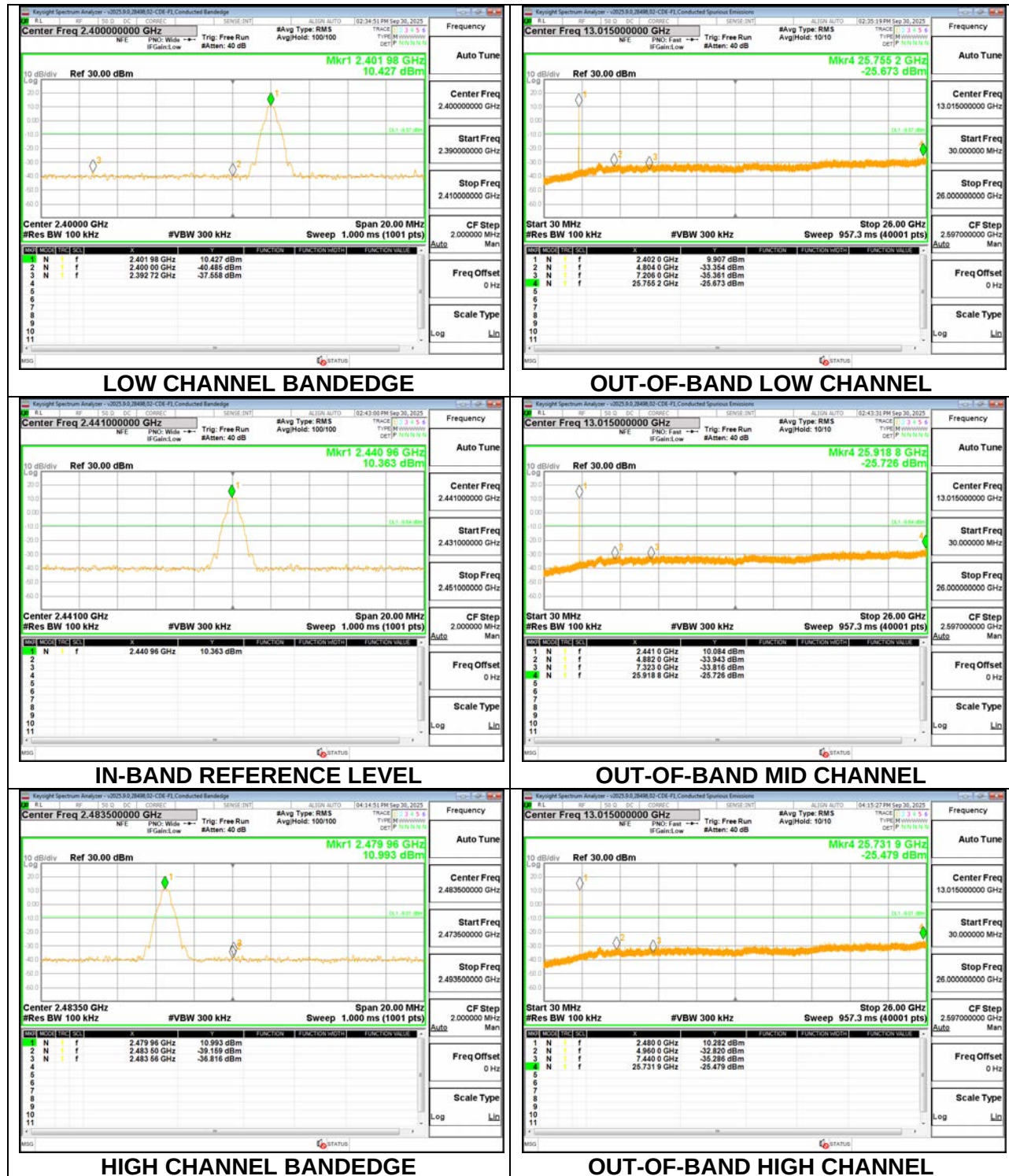
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

9.8.5. LOW POWER GFSK

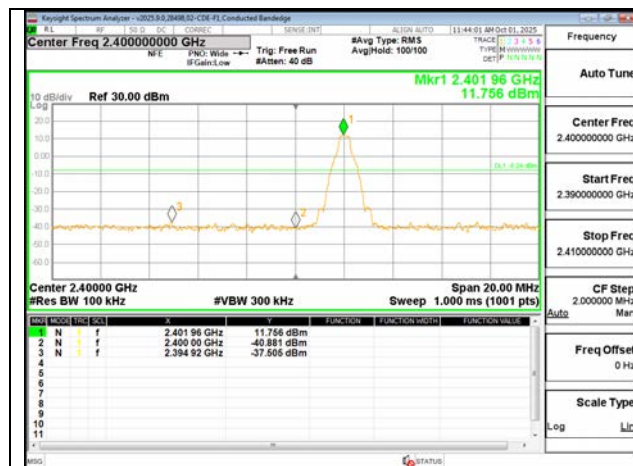
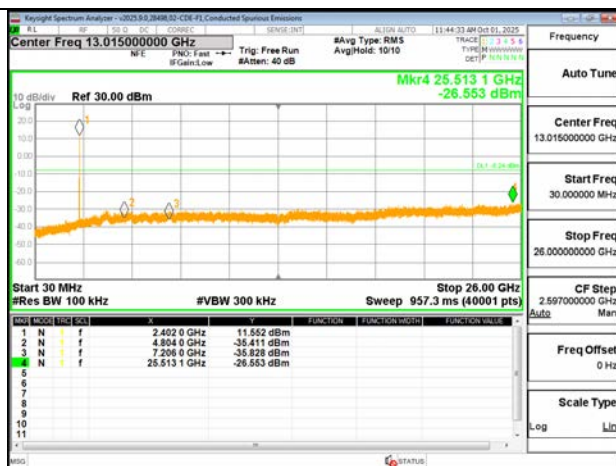
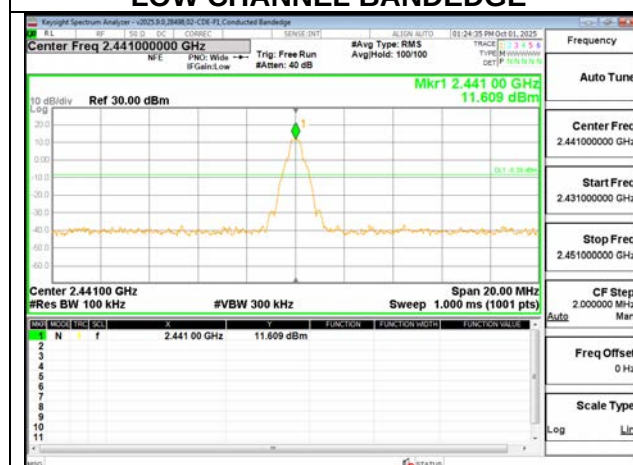
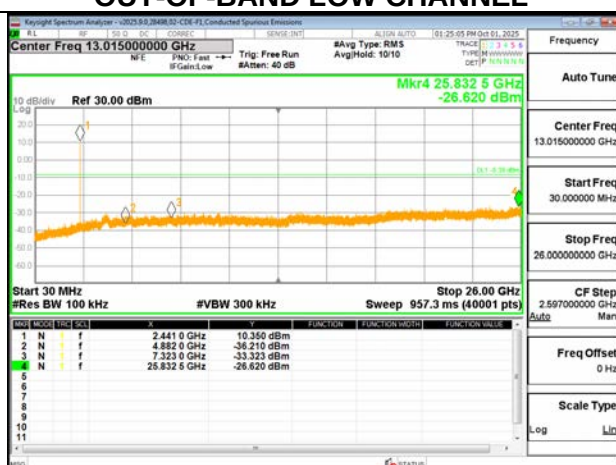
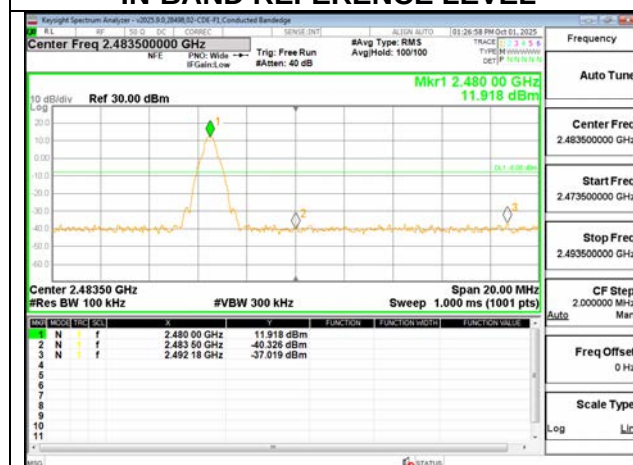
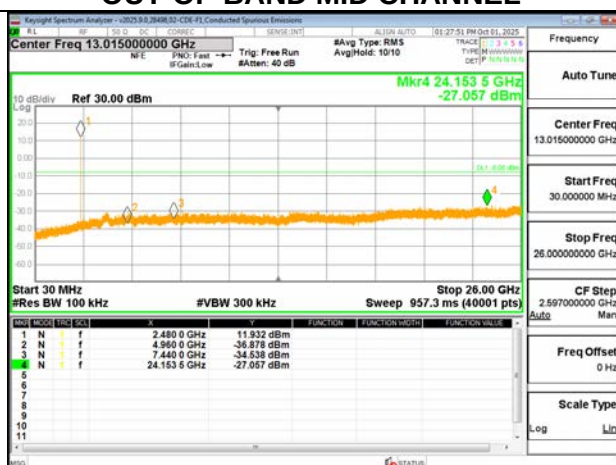
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

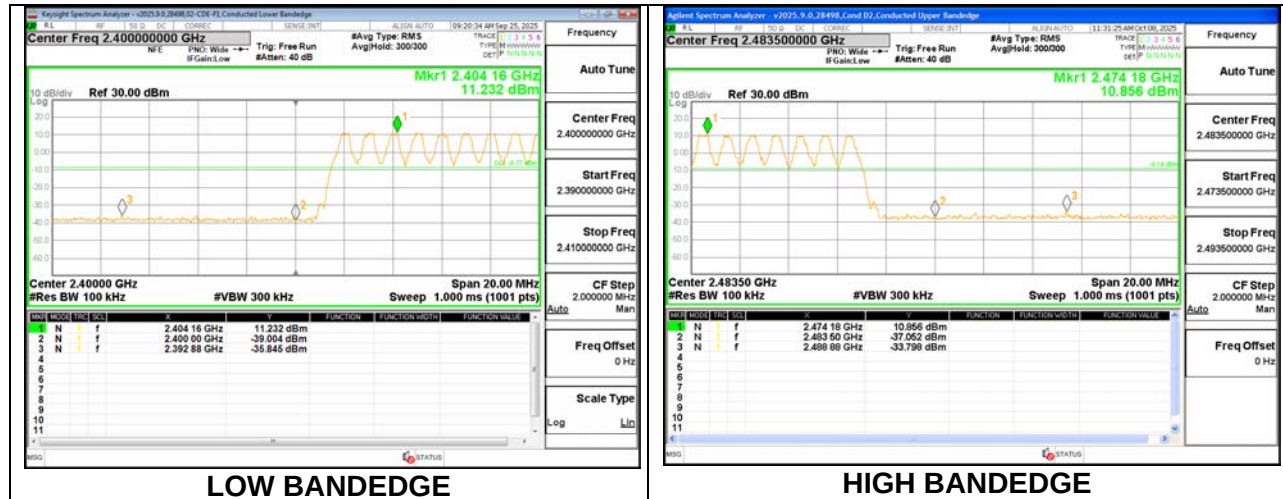
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

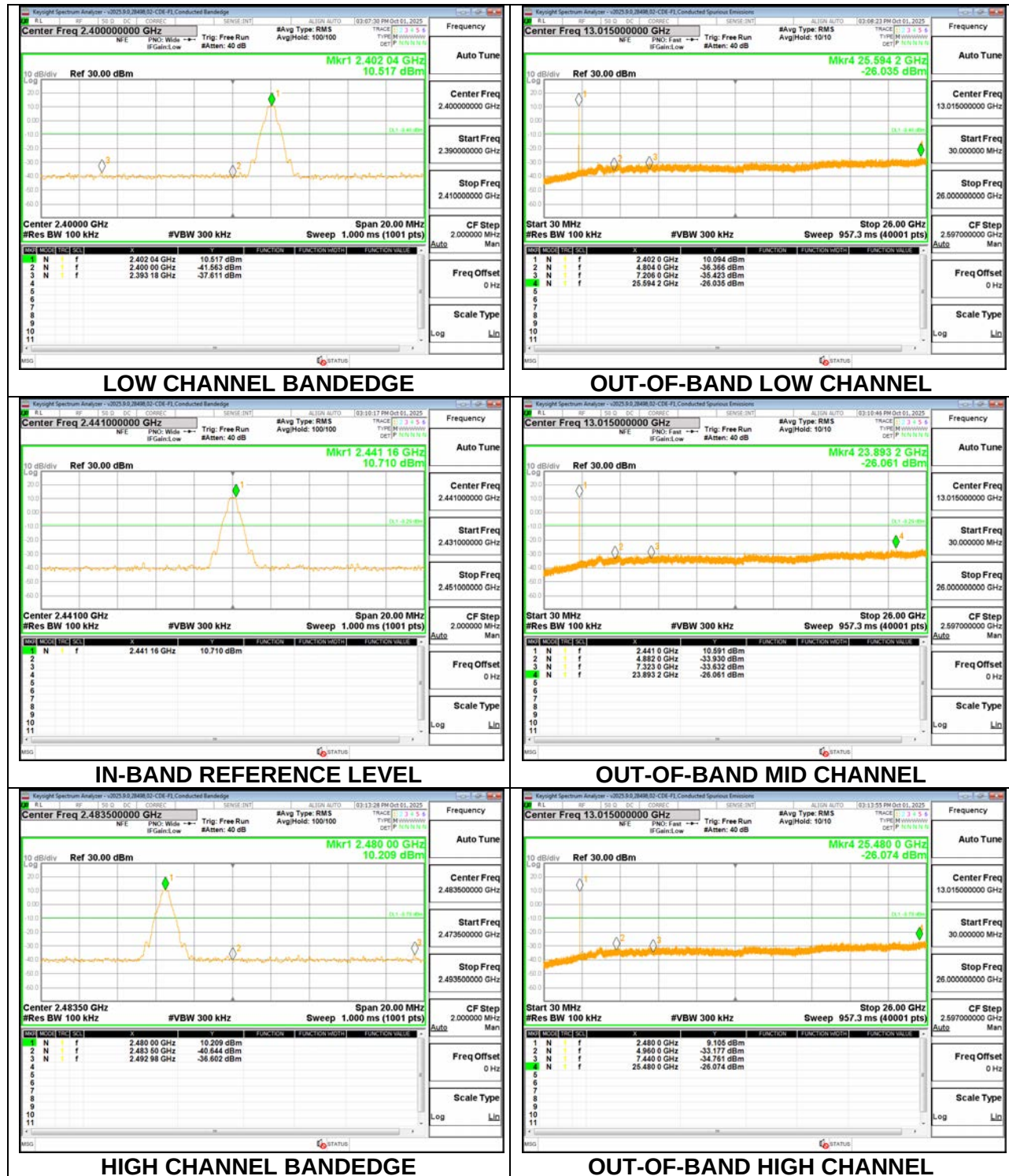
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

9.8.6. LOW POWER GFSK MIMO TXBF

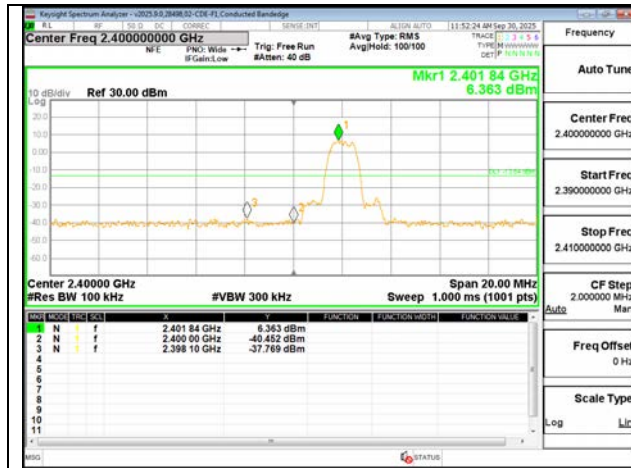
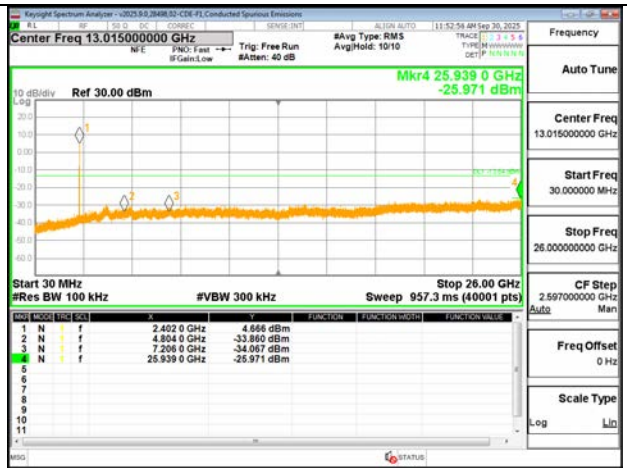
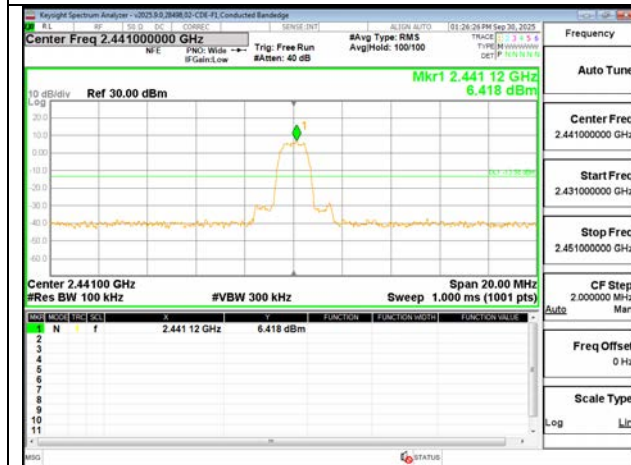
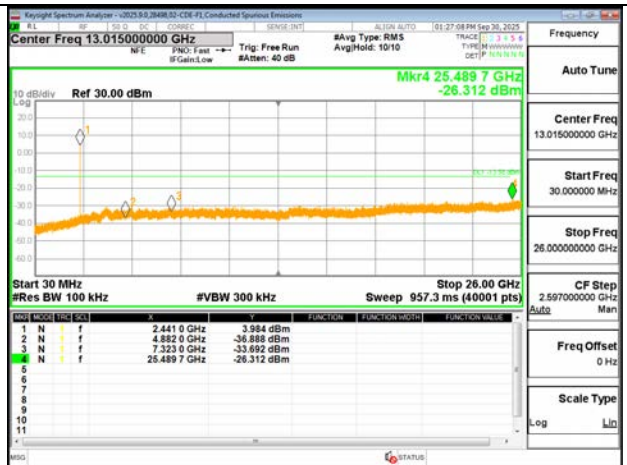
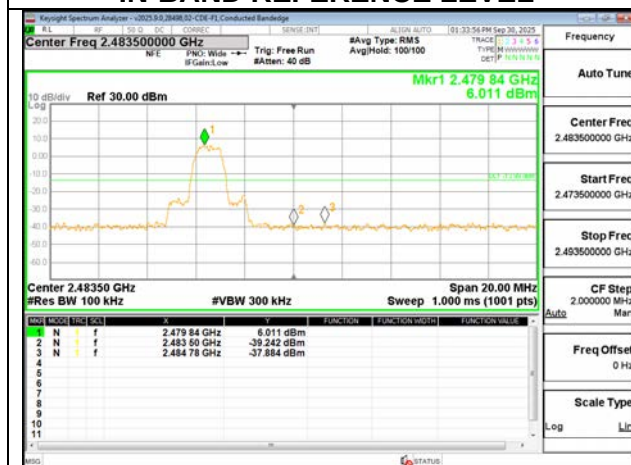
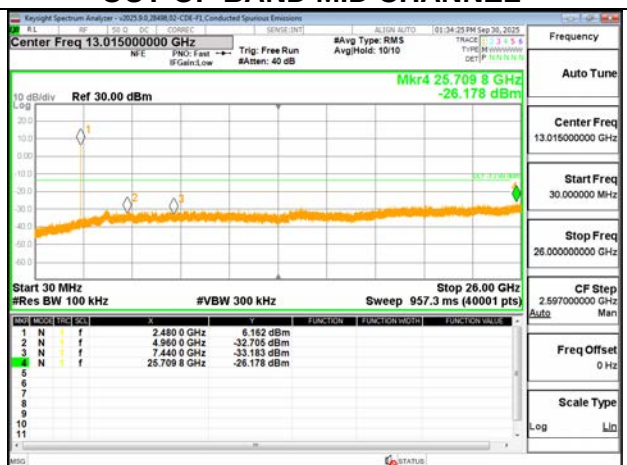
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

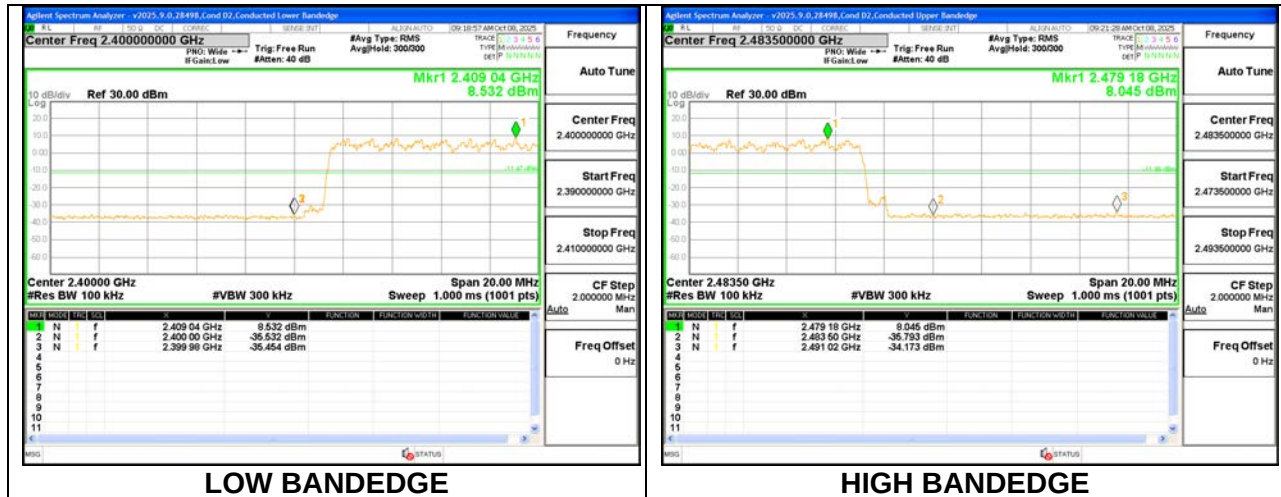
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

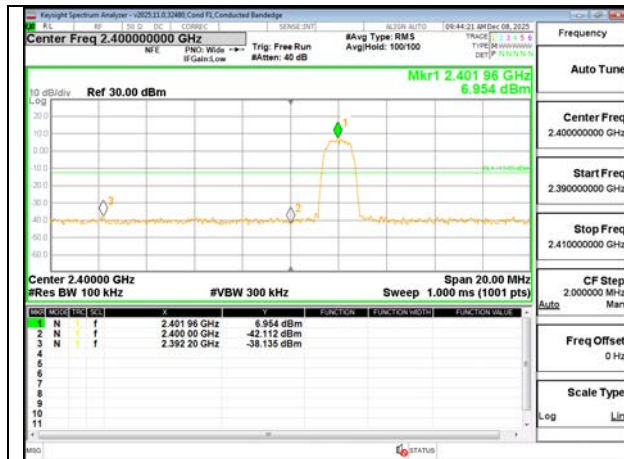
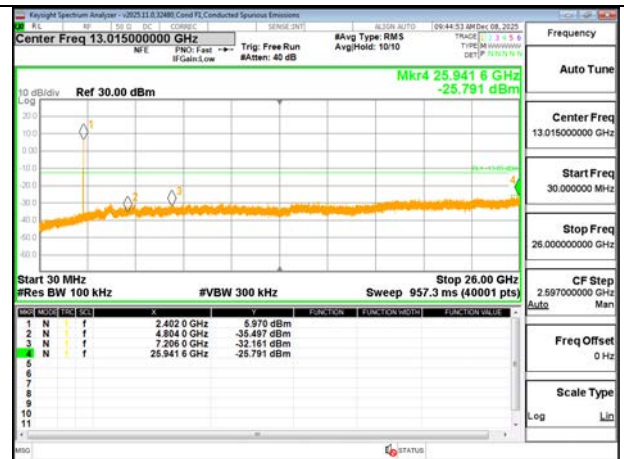
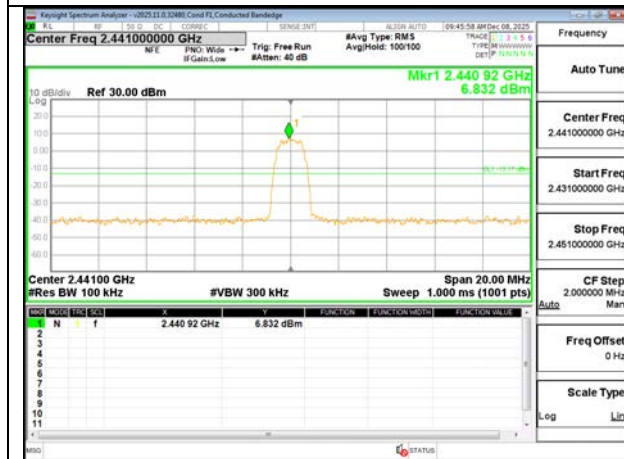
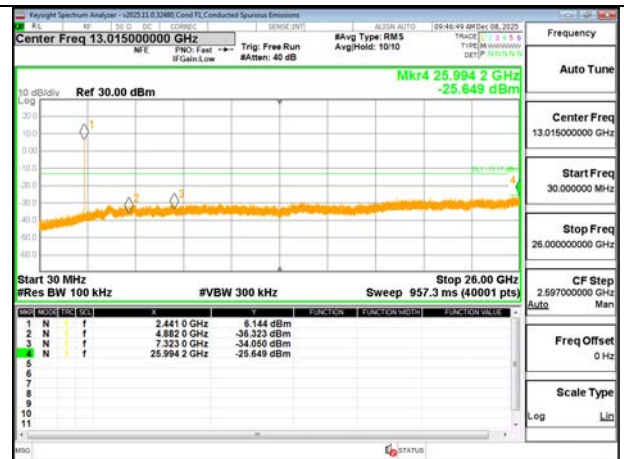
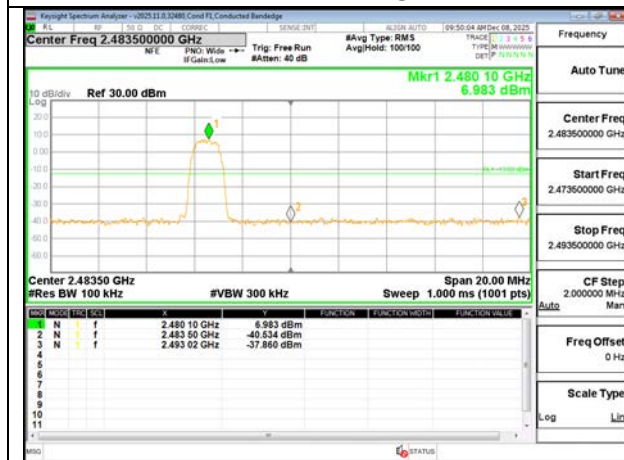
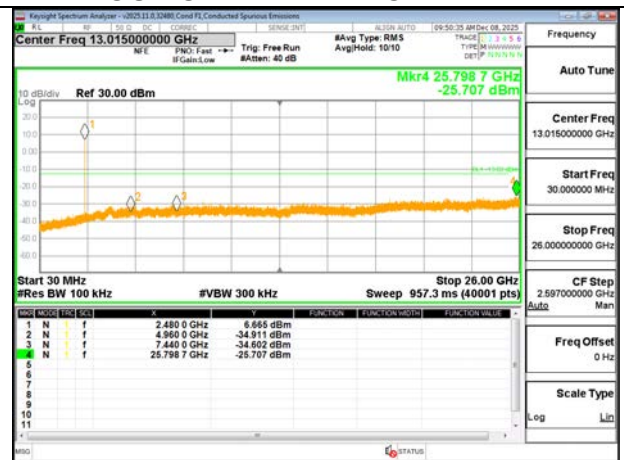
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING

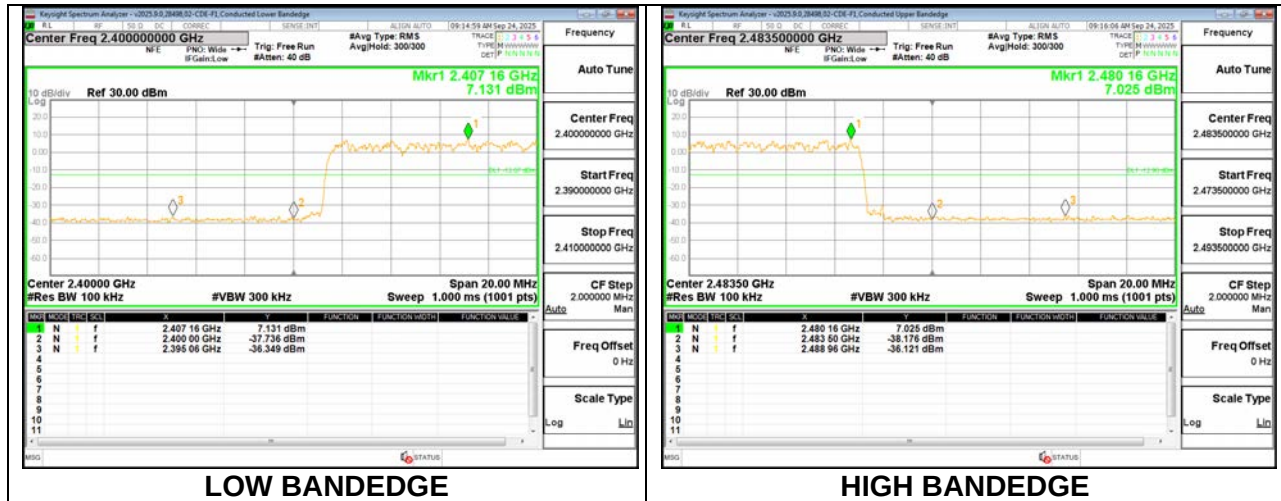
ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

9.8.7. LOW POWER 8PSK

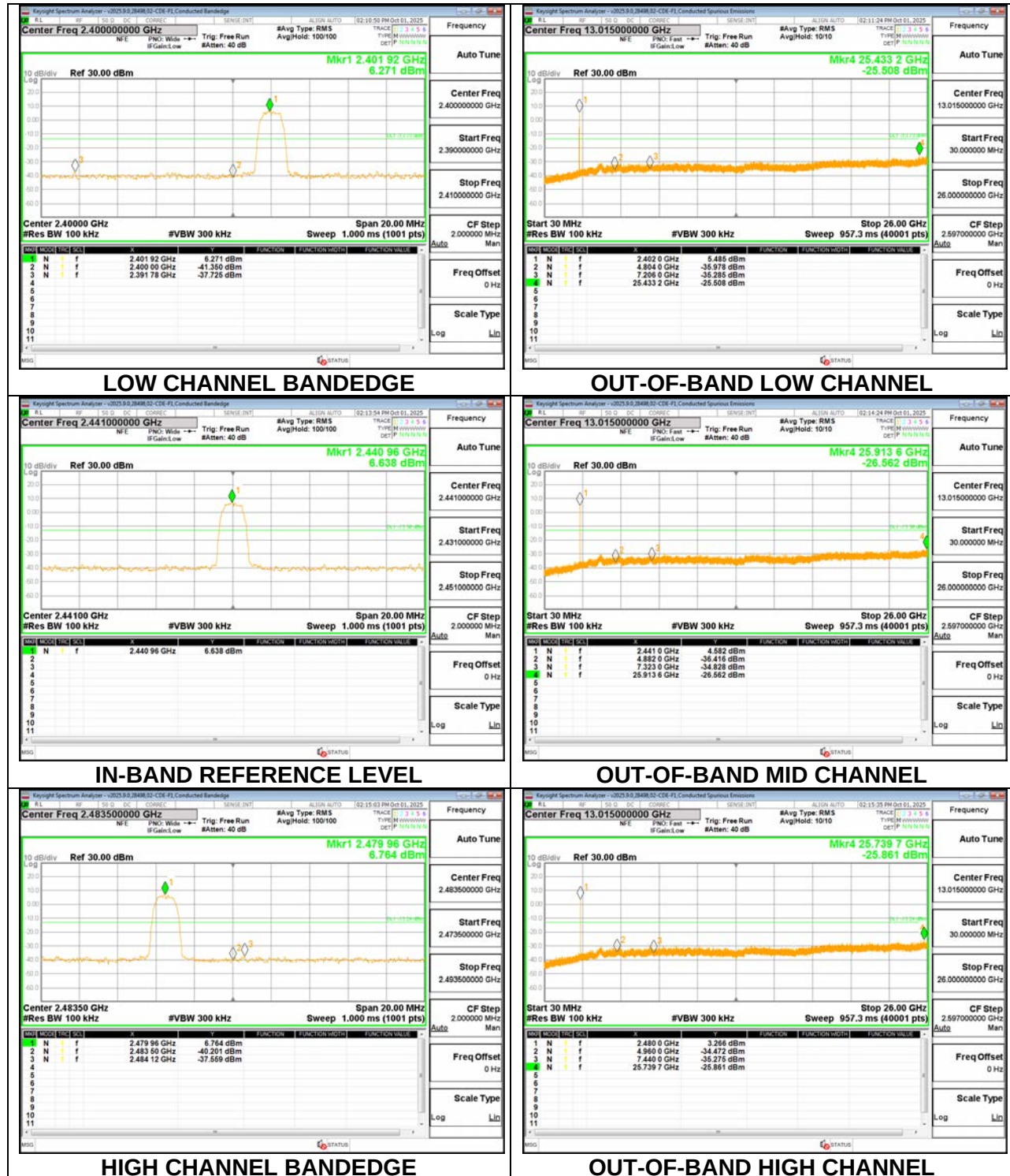
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

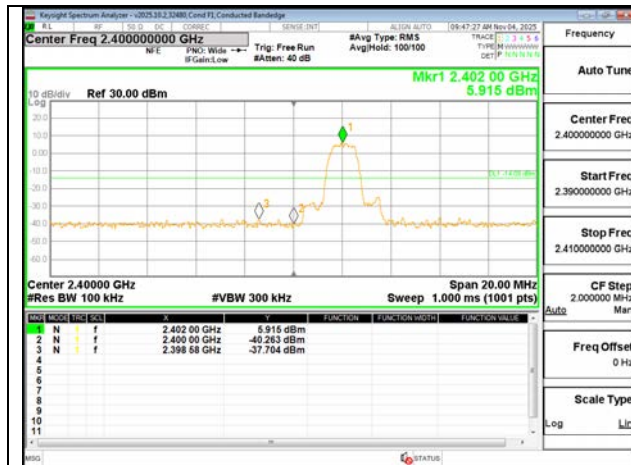
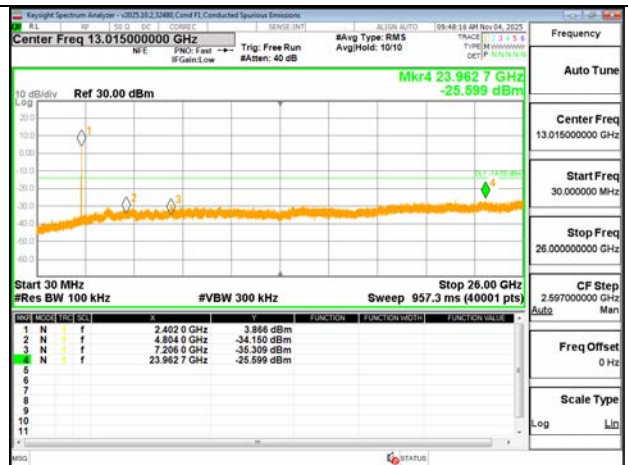
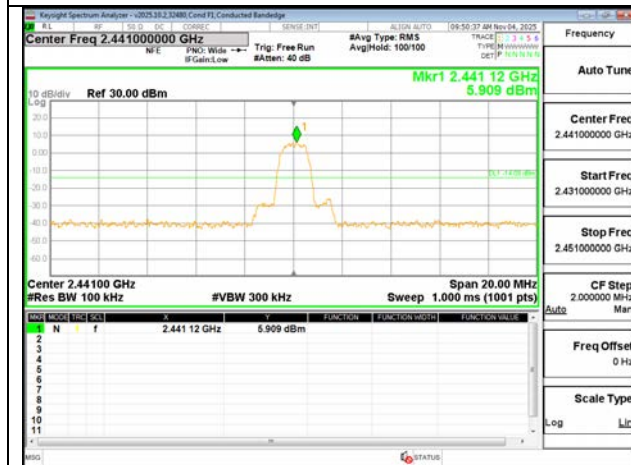
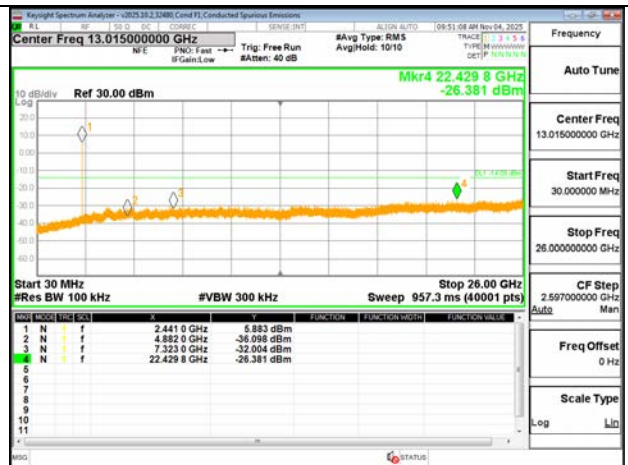
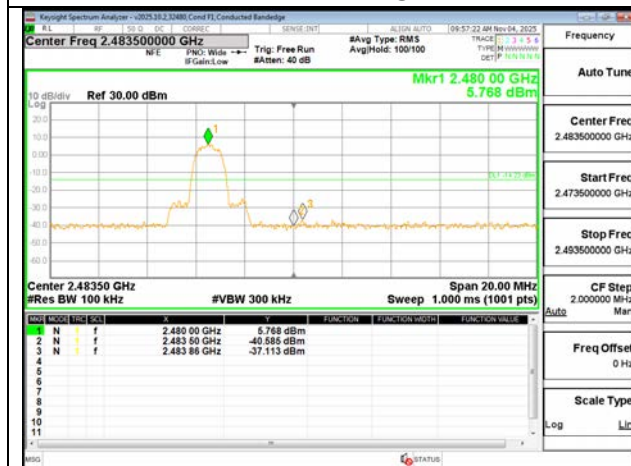
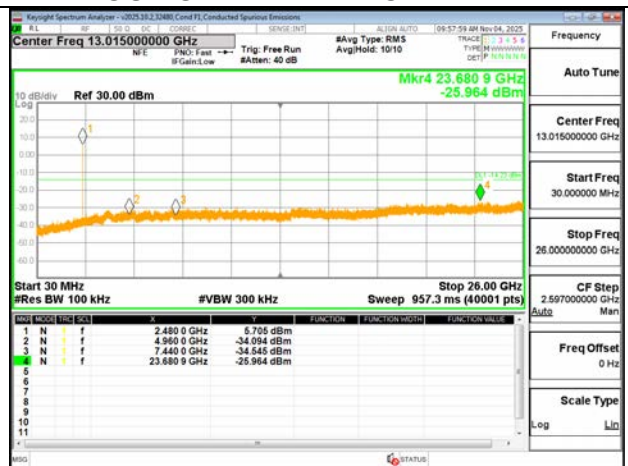
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

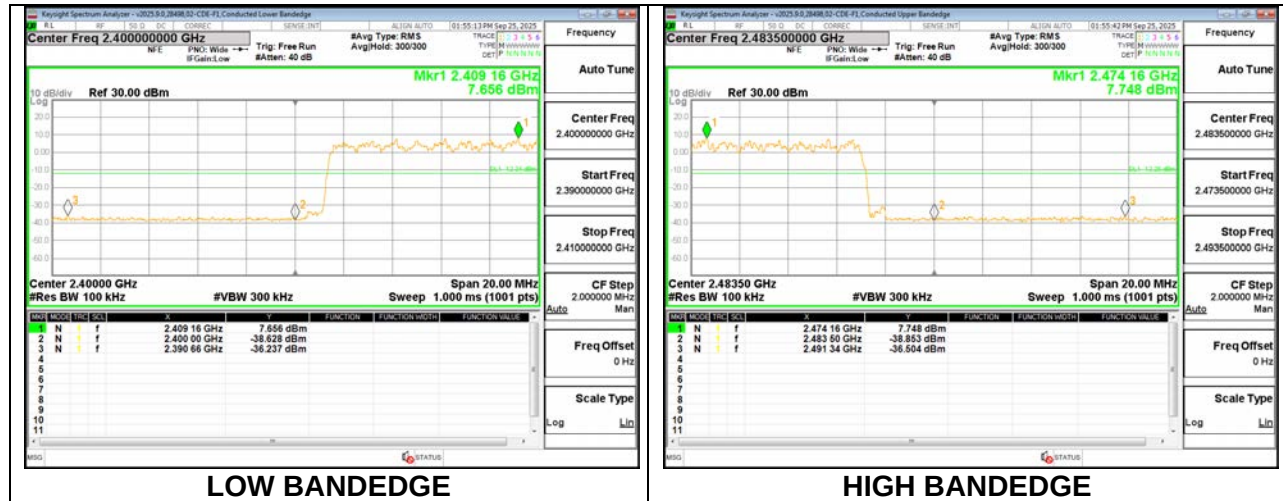
ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

9.8.8. LOW POWER 8PSK MIMO TXBF

ANT 4 SPURIOUS EMISSIONS, NON-HOPPING

ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

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

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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements. 1MHz resolution bandwidth with 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 must 15.209(a) limit.

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

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.

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

RESULTS

The plots in these sections are for reference settings only for different bandwidths and different antennas.

10.1. TRANSMITTER ABOVE 1 GHz

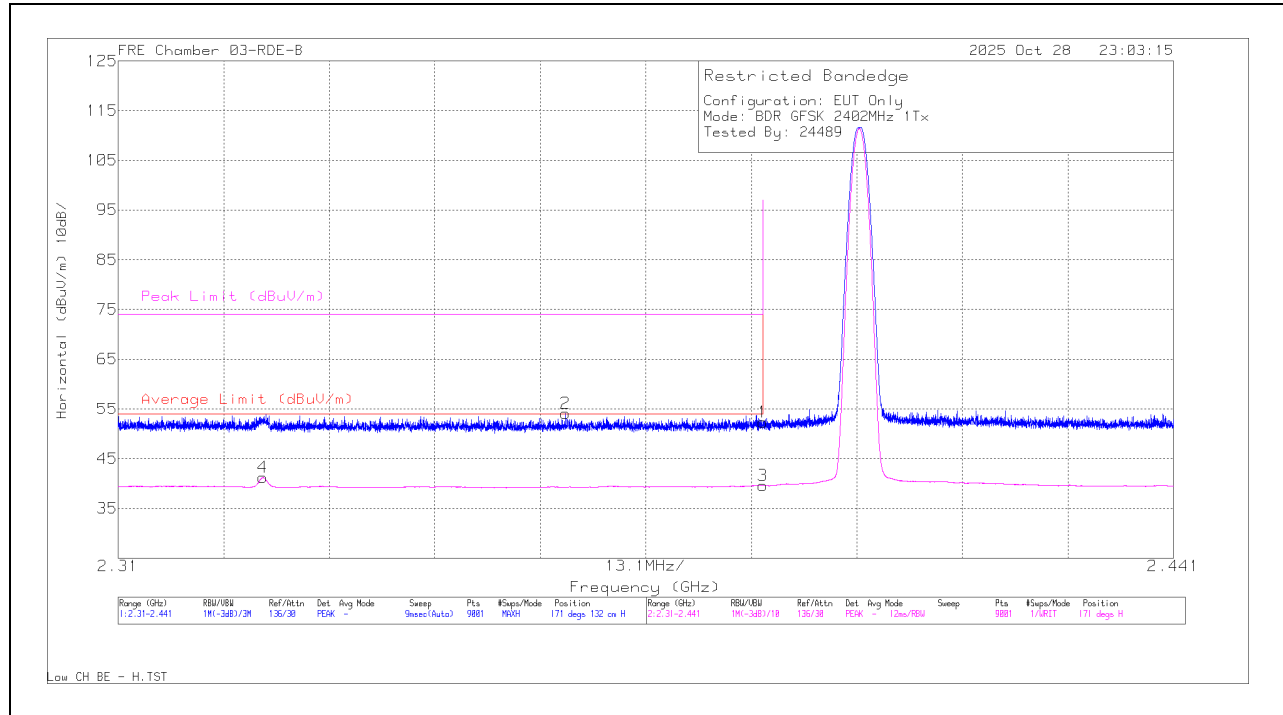
10.1.1. SISO MODE – LOW BANDEDGE – HIGH POWER

2.4GHz (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2402	4	*2.39	61.94	Pk	31.7	-41.3	52.34	-	-	74	-21.66	171	132	H
			*2.365531	63.77	Pk	31.6	-41.3	54.07	-	-	74	-19.93	171	132	H
			*2.39	49.18	VA1T	31.7	-41.3	39.58	54	-14.42	-	-	171	132	H
			*2.327962	50.82	VA1T	31.6	-41.2	41.22	54	-12.78	-	-	171	132	H
			*2.39	60.92	Pk	31.7	-41.3	51.32	-	-	74	-22.68	136	358	V
			*2.328341	64.03	Pk	31.6	-41.23	54.4	-	-	74	-19.6	136	358	V
			*2.39	49.2	VA1T	31.7	-41.3	39.6	54	-14.4	-	-	136	358	V
			*2.327991	50.33	VA1T	31.6	-41.2	40.73	54	-13.27	-	-	136	358	V
		3	* 2.39	58.58	Pk	32.2	-39	51.78	-	-	74	-22.22	12	244	H
			* 2.384716	60.16	Pk	32.1	-38.77	53.49	-	-	74	-20.51	12	244	H
			* 2.39	45.58	VA1T	32.2	-39	38.78	54	-15.22	-	-	12	244	H
			* 2.389971	45.59	VA1T	32.2	-39	38.79	54	-15.21	-	-	12	244	H
			* 2.39	57.43	Pk	32.2	-39	50.63	-	-	74	-23.37	317	130	V
			* 2.357351	60.12	Pk	32.1	-39.04	53.18	-	-	74	-20.82	317	130	V
			* 2.39	45.39	VA1T	32.2	-39	38.59	54	-15.41	-	-	317	130	V
			* 2.39	45.39	VA1T	32.2	-39	38.59	54	-15.41	-	-	317	130	V
8PSK	2402	4	* 2.39	58.29	Pk	32.2	-39	51.49	-	-	74	-22.51	250	118	H
			* 2.36917	59.95	Pk	32.1	-38.82	53.23	-	-	74	-20.77	250	118	H
			* 2.39	45.7	VA1T	32.2	-39	38.9	54	-15.1	-	-	250	118	H
			* 2.385487	45.43	VA1T	32.1	-38.6	38.93	54	-15.07	-	-	250	118	H
			* 2.39	58.41	Pk	32.2	-39	51.61	-	-	74	-22.39	114	395	V
			* 2.322081	60.05	Pk	32	-39.16	52.89	-	-	74	-21.11	114	395	V
			* 2.39	45.31	VA1T	32.2	-39	38.51	54	-15.49	-	-	114	395	V
			* 2.385735	45.31	VA1T	32.1	-38.6	38.81	54	-15.19	-	-	114	395	V
		3	* 2.39	58.78	Pk	32.2	-39	51.98	-	-	74	-22.02	8	244	H
			* 2.345546	60.09	Pk	32.1	-39.3	52.89	-	-	74	-21.11	8	244	H
			* 2.39	45.77	VA1T	32.2	-39	38.97	54	-15.03	-	-	8	244	H
			* 2.39	45.77	VA1T	32.2	-39	38.97	54	-15.03	-	-	8	244	H
			* 2.39	58.02	Pk	32.2	-39	51.22	-	-	74	-22.78	317	131	V
			* 2.317642	59.89	Pk	32	-39.06	52.83	-	-	74	-21.17	317	131	V
			* 2.39	45.7	VA1T	32.2	-39	38.9	54	-15.1	-	-	317	131	V
			* 2.39	45.7	VA1T	32.2	-39	38.9	54	-15.1	-	-	317	131	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

1TX Antenna 4**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

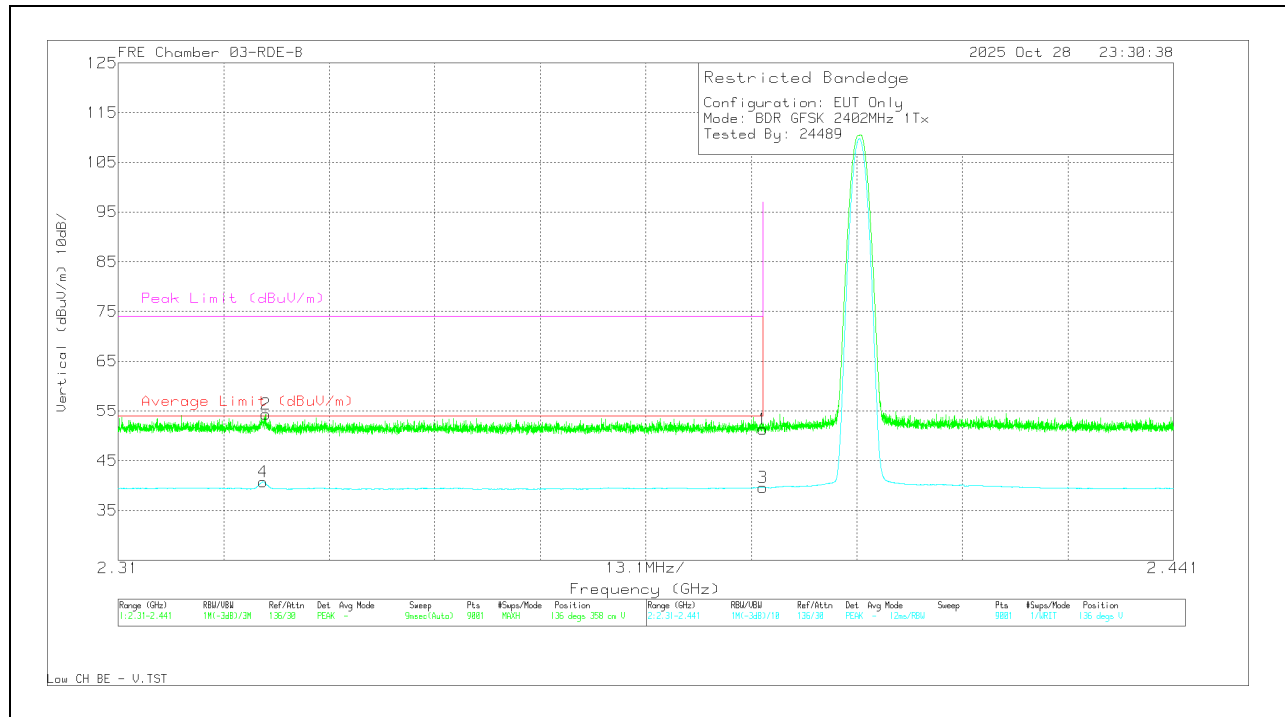
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.39	61.94	Pk	31.7	-41.3	52.34	-	-	74	-21.66	171	132	H
2	*2.365531	63.77	Pk	31.6	-41.3	54.07	-	-	74	-19.93	171	132	H
3	*2.39	49.18	VA1T	31.7	-41.3	39.58	54	-14.42	-	-	171	132	H
4	*2.327962	50.82	VA1T	31.6	-41.2	41.22	54	-12.78	-	-	171	132	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	223084 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.39	60.92	Pk	31.7	-41.3	51.32	-	-	74	-22.68	136	358	V
2	*2.328341	64.03	Pk	31.6	-41.23	54.4	-	-	74	-19.6	136	358	V
3	*2.39	49.2	VA1T	31.7	-41.3	39.6	54	-14.4	-	-	136	358	V
4	*2.327991	50.33	VA1T	31.6	-41.2	40.73	54	-13.27	-	-	136	358	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

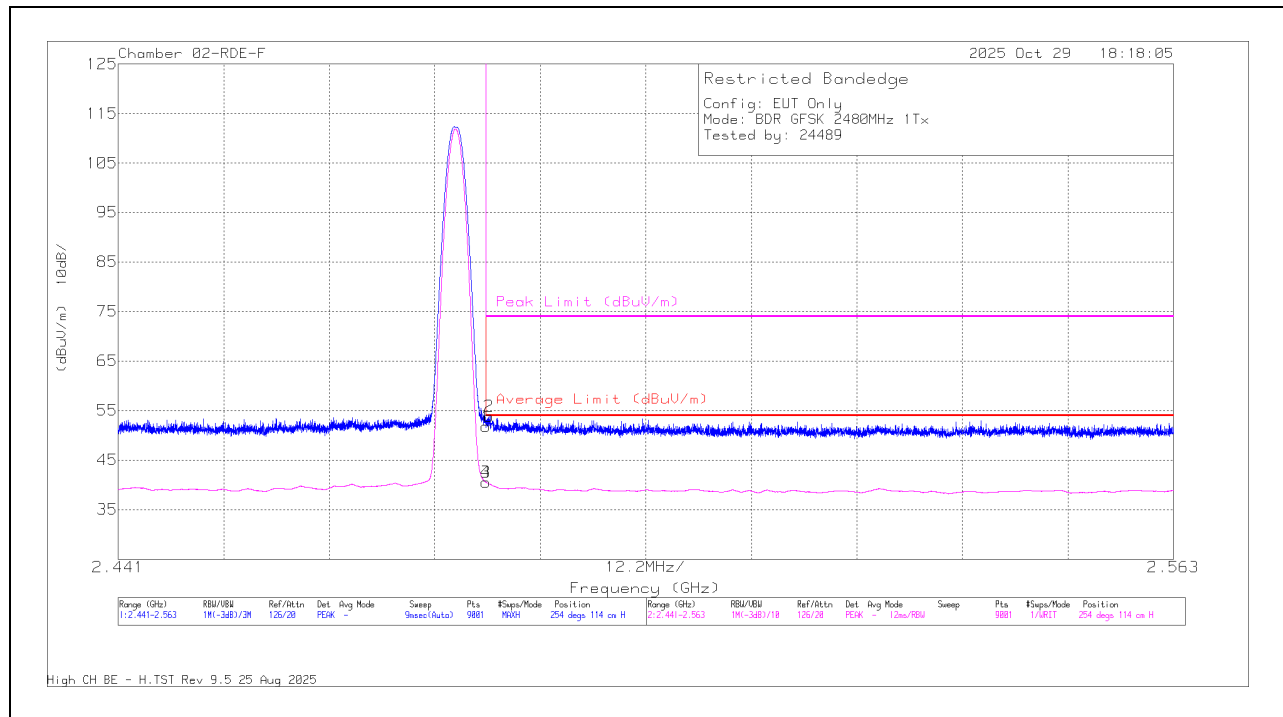
10.1.2. SISO MODE – HIGH BANDEDGE – HIGH POWER

2.4GHz (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2480	4	* 2.4835	57.83	Pk	32.2	-38.25	51.78	-	-	74	-22.22	254	114	H
			* 2.483891	60.05	Pk	32.2	-38.37	53.88	-	-	74	-20.12	254	114	H
			* 2.4835	46.62	VA1T	32.2	-38.25	40.57	54	-13.43	-	-	254	114	H
			* 2.483512	46.61	VA1T	32.2	-38.25	40.56	54	-13.44	-	-	254	114	H
			* 2.4835	58.23	Pk	32.2	-38.25	52.18	-	-	74	-21.82	214	361	V
			* 2.486752	60.16	Pk	32.2	-38.65	53.71	-	-	74	-20.29	214	361	V
			* 2.4835	46.17	VA1T	32.2	-38.25	40.12	54	-13.88	-	-	214	361	V
			* 2.483512	46.16	VA1T	32.2	-38.25	40.11	54	-13.89	-	-	214	361	V
		3	* 2.4835	43.14	Pk	32.3	-20.3	55.14	-	-	74	-18.86	60	163	H
			* 2.489334	45.22	Pk	32.3	-20.2	57.32	-	-	74	-16.68	60	163	H
			* 2.4835	31.83	VA1T	32.3	-20.3	43.83	54	-10.17	-	-	60	163	H
			* 2.483507	31.82	VA1T	32.3	-20.3	43.82	54	-10.18	-	-	60	163	H
			* 2.4835	43.85	Pk	32.3	-20.3	55.85	-	-	74	-18.15	23	108	V
			* 2.487824	45.12	Pk	32.3	-20.2	57.22	-	-	74	-16.78	23	108	V
			* 2.4835	31.97	VA1T	32.3	-20.3	43.97	54	-10.03	-	-	23	108	V
			* 2.483507	31.97	VA1T	32.3	-20.3	43.97	54	-10.03	-	-	23	108	V
8PSK	2480	4	* 2.4835	71.12	Pk	32.2	-38.25	65.07	-	-	74	-8.93	254	115	H
			* 2.483512	70.91	Pk	32.2	-38.25	64.86	-	-	74	-9.14	254	115	H
			* 2.4835	50.95	VA1T	32.2	-38.25	44.9	54	-9.1	-	-	254	115	H
			* 2.483512	50.88	VA1T	32.2	-38.25	44.83	54	-9.17	-	-	254	115	H
			* 2.4835	70.51	Pk	32.2	-38.25	64.46	-	-	74	-9.54	216	363	V
			* 2.483512	70.64	Pk	32.2	-38.25	64.59	-	-	74	-9.41	216	363	V
			* 2.4835	50.5	VA1T	32.2	-38.25	44.45	54	-9.55	-	-	216	363	V
			* 2.483512	50.43	VA1T	32.2	-38.25	44.38	54	-9.62	-	-	216	363	V
		3	* 2.4835	75.02	Pk	32.2	-38.25	68.97	-	-	74	-5.03	5	231	H
			* 2.483512	75.17	Pk	32.2	-38.25	69.12	-	-	74	-4.88	5	231	H
			* 2.4835	53.59	VA1T	32.2	-38.25	47.54	54	-6.46	-	-	5	231	H
			* 2.483512	53.53	VA1T	32.2	-38.25	47.48	54	-6.52	-	-	5	231	H
			* 2.4835	75.49	Pk	32.2	-38.25	69.44	-	-	74	-4.56	334	127	V
			* 2.483512	75.2	Pk	32.2	-38.25	69.15	-	-	74	-4.85	334	127	V
			* 2.4835	53.82	VA1T	32.2	-38.25	47.77	54	-6.23	-	-	334	127	V
			* 2.483512	53.75	VA1T	32.2	-38.25	47.7	54	-6.3	-	-	334	127	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

1TX Antenna 4**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

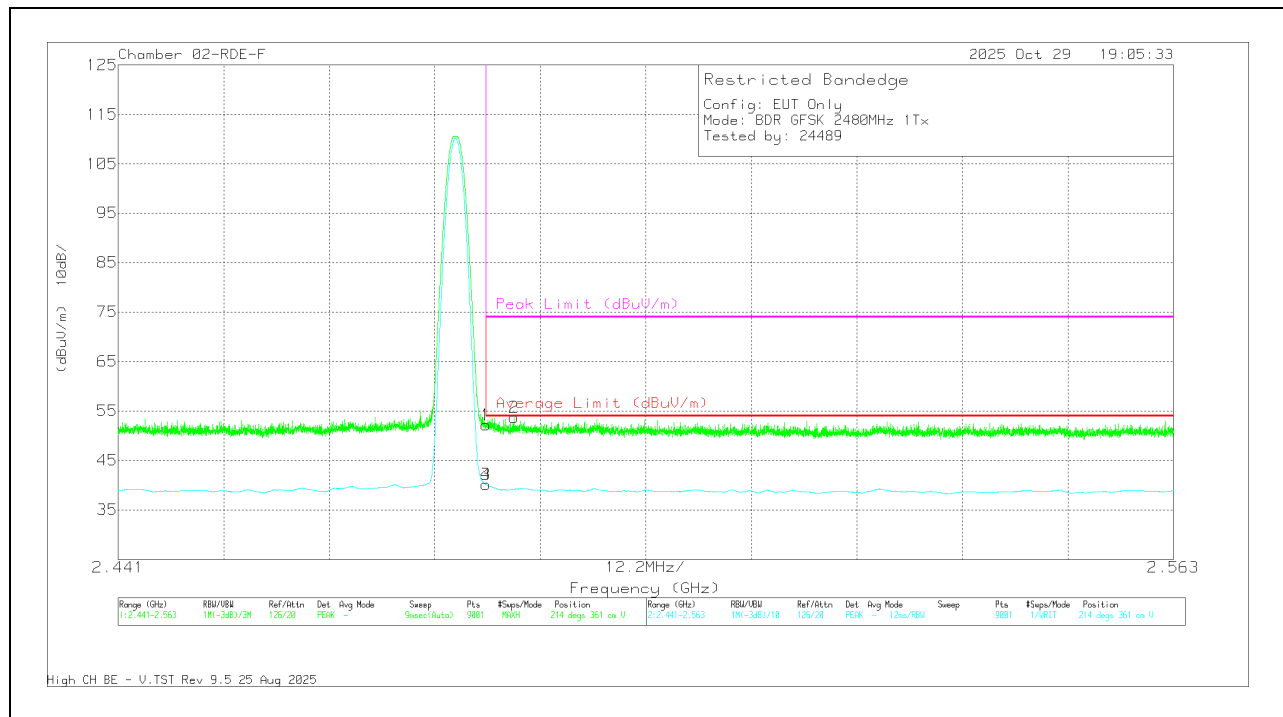
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	57.83	Pk	32.2	-38.25	51.78	-	-	74	-22.22	254	114	H
2	* 2.483891	60.05	Pk	32.2	-38.37	53.88	-	-	74	-20.12	254	114	H
3	* 2.4835	46.62	VA1T	32.2	-38.25	40.57	54	-13.43	-	-	254	114	H
4	* 2.483512	46.61	VA1T	32.2	-38.25	40.56	54	-13.44	-	-	254	114	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)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	58.23	Pk	32.2	-38.25	52.18	-	-	74	-21.82	214	361	V
2	* 2.486752	60.16	Pk	32.2	-38.65	53.71	-	-	74	-20.29	214	361	V
3	* 2.4835	46.17	VA1T	32.2	-38.25	40.12	54	-13.88	-	-	214	361	V
4	* 2.483512	46.16	VA1T	32.2	-38.25	40.11	54	-13.89	-	-	214	361	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

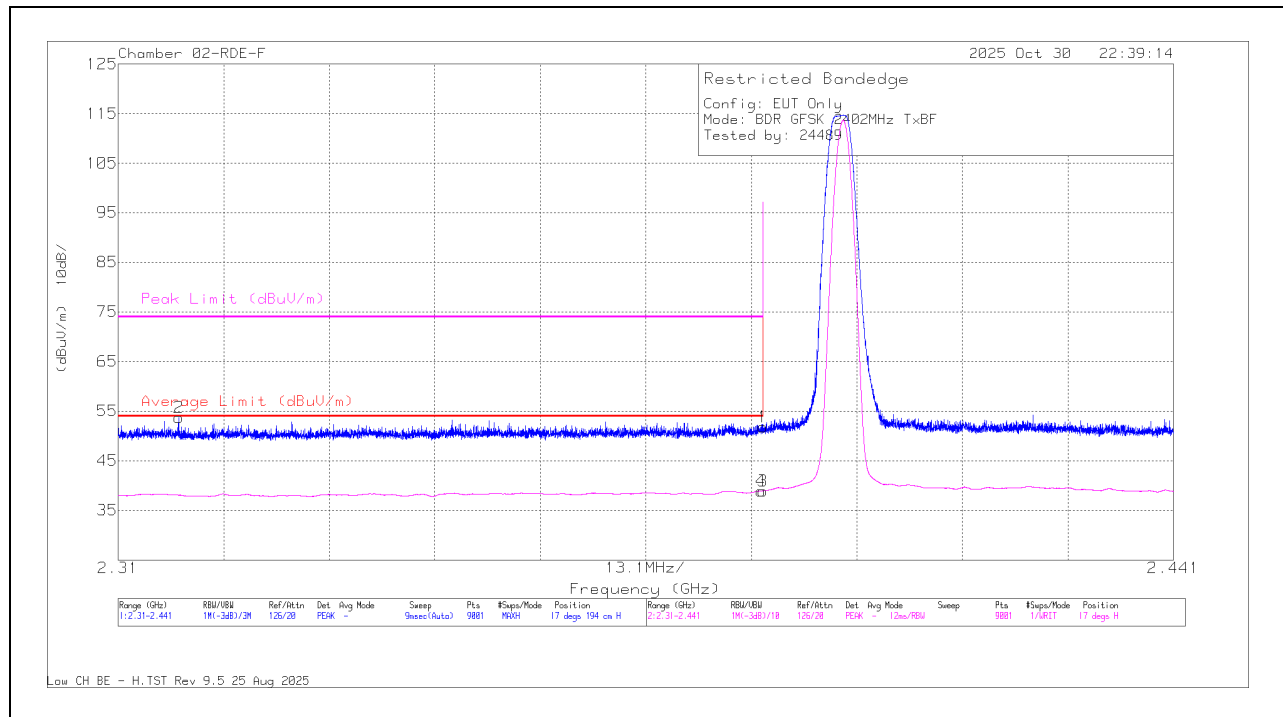
10.1.3. MIMO TXBF MODE – LOW BANDEDGE – HIGH POWER

2.4GHz (MIMO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2402	4 + 3	* 2.39	58.57	Pk	32.2	-39	51.77	-	-	74	-22.23	17	194	H
			* 2.317496	60.76	Pk	32	-39.05	53.71	-	-	74	-20.29	17	194	H
			* 2.39	45.74	VA1T	32.2	-39	38.94	54	-15.06	-	-	17	194	H
			* 2.389811	45.77	VA1T	32.2	-39.02	38.95	54	-15.05	-	-	17	194	H
			* 2.39	57.31	Pk	32.2	-39	50.51	-	-	74	-23.49	316	155	V
			* 2.353348	60.18	Pk	32.1	-39.17	53.11	-	-	74	-20.89	316	155	V
			* 2.39	45.33	VA1T	32.2	-39	38.53	54	-15.47	-	-	316	155	V
			* 2.39	45.33	VA1T	32.2	-39	38.53	54	-15.47	-	-	316	155	V
8PSK	2402	4 + 3	* 2.39	41.64	Pk	31.8	-19.9	53.54	-	-	74	-20.46	328	105	H
			* 2.367598	44.04	Pk	31.7	-19.7	56.04	-	-	74	-17.96	328	105	H
			* 2.39	29.77	VA1T	31.8	-19.9	41.67	54	-12.33	-	-	328	105	H
			* 2.389641	29.73	VA1T	31.8	-19.8	41.73	54	-12.27	-	-	328	105	H
			* 2.39	42.04	Pk	31.8	-19.9	53.94	-	-	74	-20.06	29	134	V
			* 2.367958	44	Pk	31.7	-19.7	56	-	-	74	-18	29	134	V
			* 2.39	29.83	VA1T	31.8	-19.9	41.73	54	-12.27	-	-	29	134	V
			* 2.389019	29.8	VA1T	31.8	-19.8	41.8	54	-12.2	-	-	29	134	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

2TX Antenna 4 + 3**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

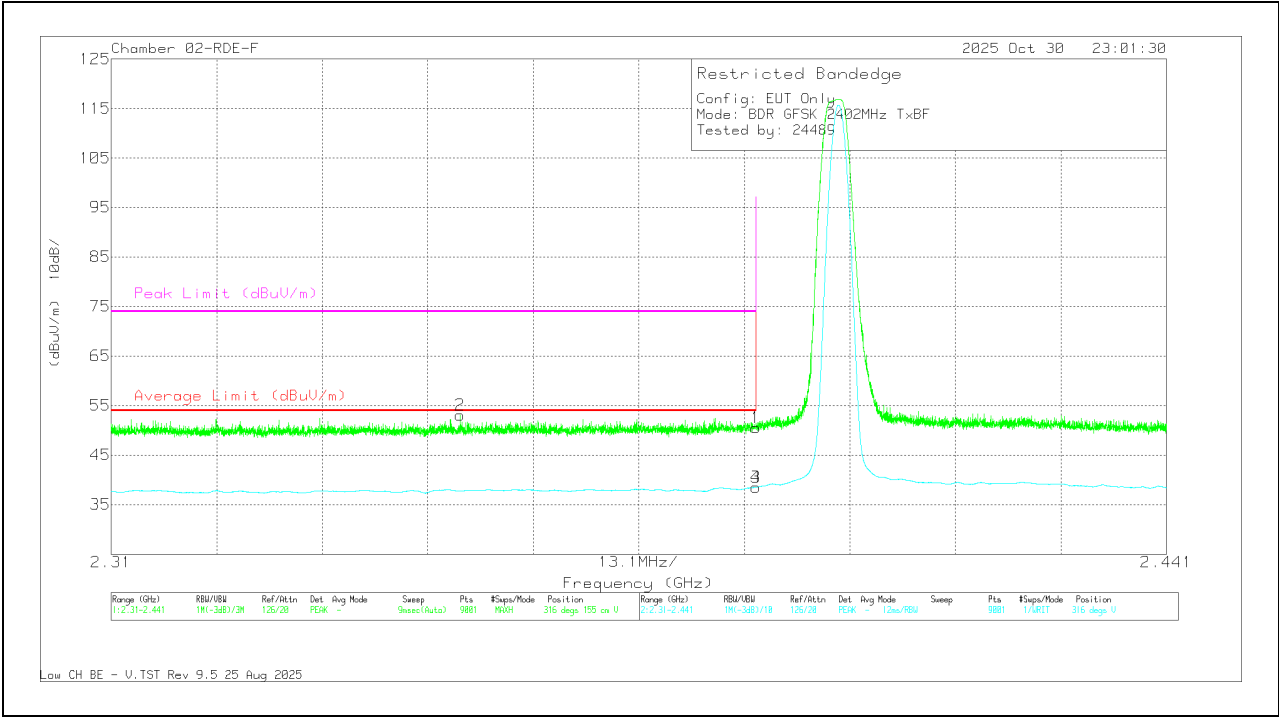
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	58.57	Pk	32.2	-39	51.77	-	-	74	-22.23	17	194	H
2	* 2.317496	60.76	Pk	32	-39.05	53.71	-	-	74	-20.29	17	194	H
3	* 2.39	45.74	VA1T	32.2	-39	38.94	54	-15.06	-	-	17	194	H
4	* 2.389811	45.77	VA1T	32.2	-39.02	38.95	54	-15.05	-	-	17	194	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)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	57.31	Pk	32.2	-39	50.51	-	-	74	-23.49	316	155	V
2	* 2.353348	60.18	Pk	32.1	-39.17	53.11	-	-	74	-20.89	316	155	V
3	* 2.39	45.33	VA1T	32.2	-39	38.53	54	-15.47	-	-	316	155	V
4	* 2.39	45.33	VA1T	32.2	-39	38.53	54	-15.47	-	-	316	155	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

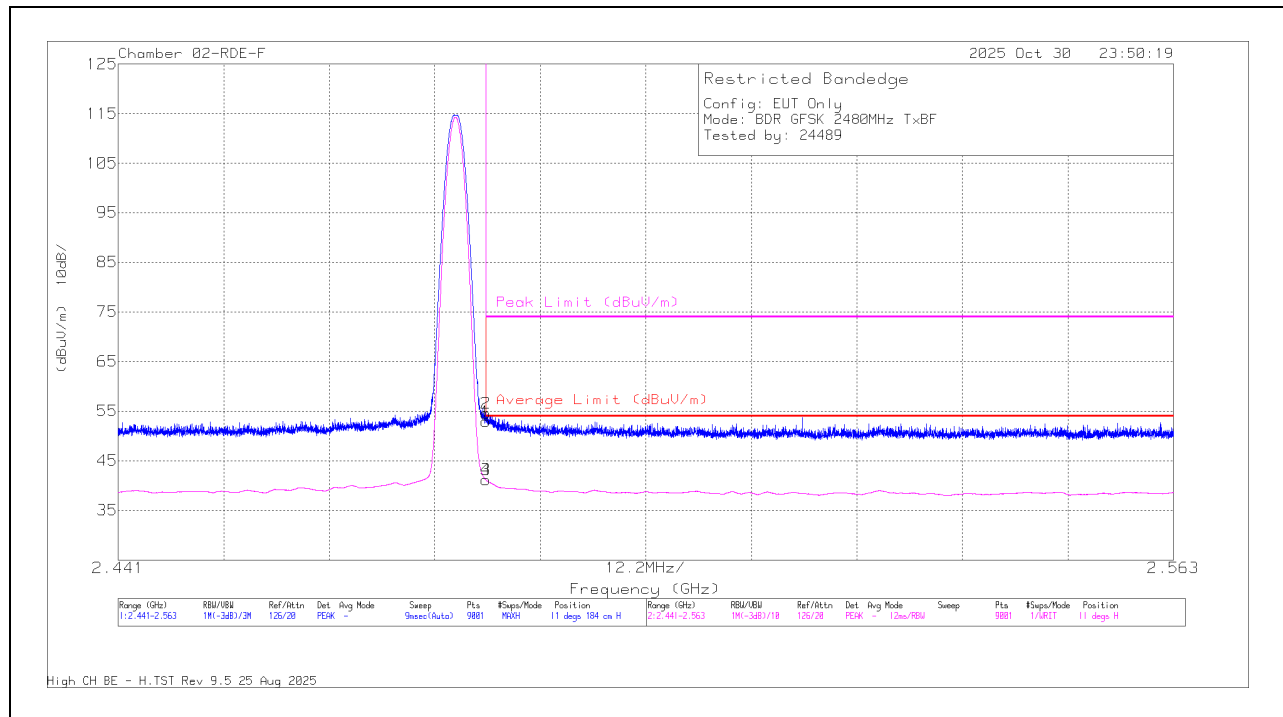
10.1.4. MIMO TXBF MODE – HIGH BANDEDGE – HIGH POWER

2.4GHz (MIMO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2480	4 + 3	* 2.4835	58.94	Pk	32.2	-38.25	52.89	-	-	74	-21.11	11	184	H
			* 2.483525	60.61	Pk	32.2	-38.26	54.55	-	-	74	-19.45	11	184	H
			* 2.4835	47.2	VA1T	32.2	-38.25	41.15	54	-12.85	-	-	11	184	H
			* 2.483512	47.2	VA1T	32.2	-38.25	41.15	54	-12.85	-	-	11	184	H
			* 2.4835	59.36	Pk	32.2	-38.25	53.31	-	-	74	-20.69	332	149	V
			* 2.48381	59.85	Pk	32.2	-38.34	53.71	-	-	74	-20.29	332	149	V
			* 2.4835	46.97	VA1T	32.2	-38.25	40.92	54	-13.08	-	-	332	149	V
			* 2.483512	46.97	VA1T	32.2	-38.25	40.92	54	-13.08	-	-	332	149	V
8PSK	2480	4 + 3	* 2.4835	49.25	Pk	32.3	-20.3	61.25	-	-	74	-12.75	61	290	H
			* 2.483507	48.48	Pk	32.3	-20.3	60.48	-	-	74	-13.52	61	290	H
			* 2.4835	33.31	VA1T	32.3	-20.3	45.31	54	-8.69	-	-	61	290	H
			* 2.483507	33.26	VA1T	32.3	-20.3	45.26	54	-8.74	-	-	61	290	H
			* 2.4835	48.13	Pk	32.3	-20.3	60.13	-	-	74	-13.87	23	151	V
			* 2.483507	47.91	Pk	32.3	-20.3	59.91	-	-	74	-14.09	23	151	V
			* 2.4835	33.2	VA1T	32.3	-20.3	45.2	54	-8.8	-	-	23	151	V
			* 2.483507	33.15	VA1T	32.3	-20.3	45.15	54	-8.85	-	-	23	151	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

2TX Antenna 4 + 3**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

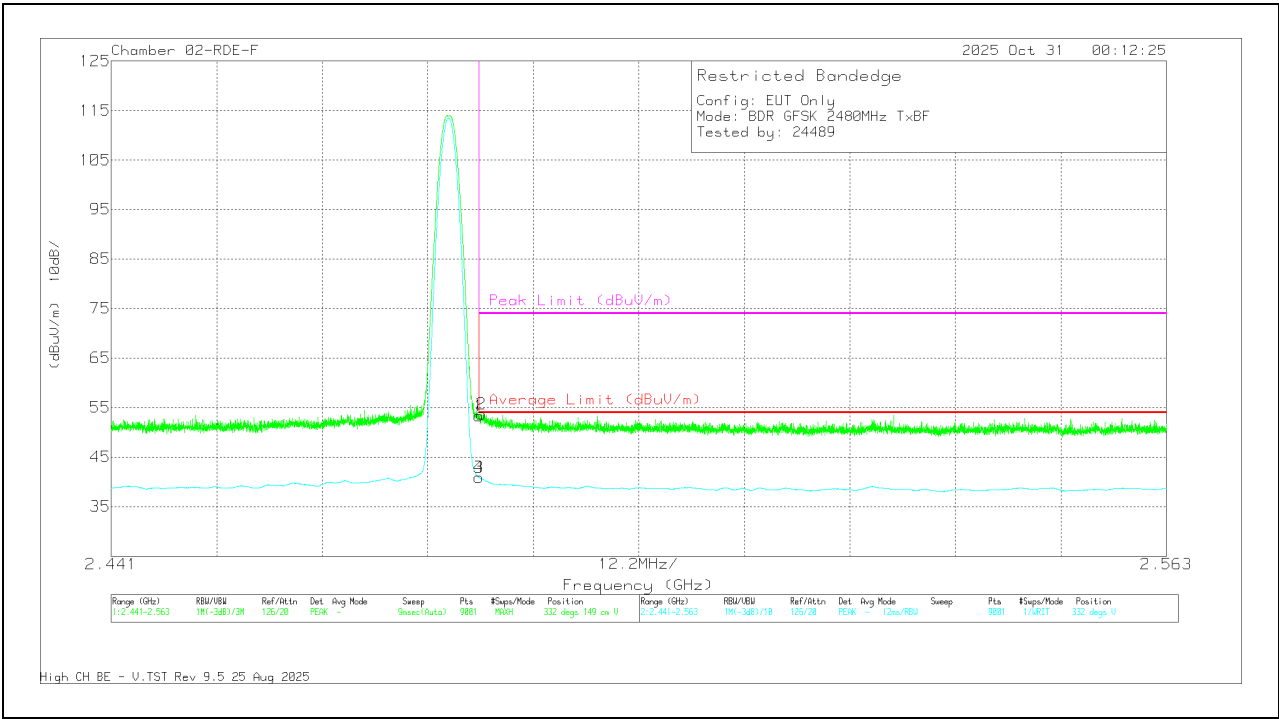
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	58.94	Pk	32.2	-38.25	52.89	-	-	74	-21.11	11	184	H
2	* 2.483525	60.61	Pk	32.2	-38.26	54.55	-	-	74	-19.45	11	184	H
3	* 2.4835	47.2	VA1T	32.2	-38.25	41.15	54	-12.85	-	-	11	184	H
4	* 2.483512	47.2	VA1T	32.2	-38.25	41.15	54	-12.85	-	-	11	184	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)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.36	Pk	32.2	-38.25	53.31	-	-	74	-20.69	332	149	V
2	* 2.48361	59.85	Pk	32.2	-38.34	53.71	-	-	74	-20.29	332	149	V
3	* 2.4835	46.97	VA1T	32.2	-38.25	40.92	54	-13.08	-	-	332	149	V
4	* 2.483512	46.97	VA1T	32.2	-38.25	40.92	54	-13.08	-	-	332	149	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

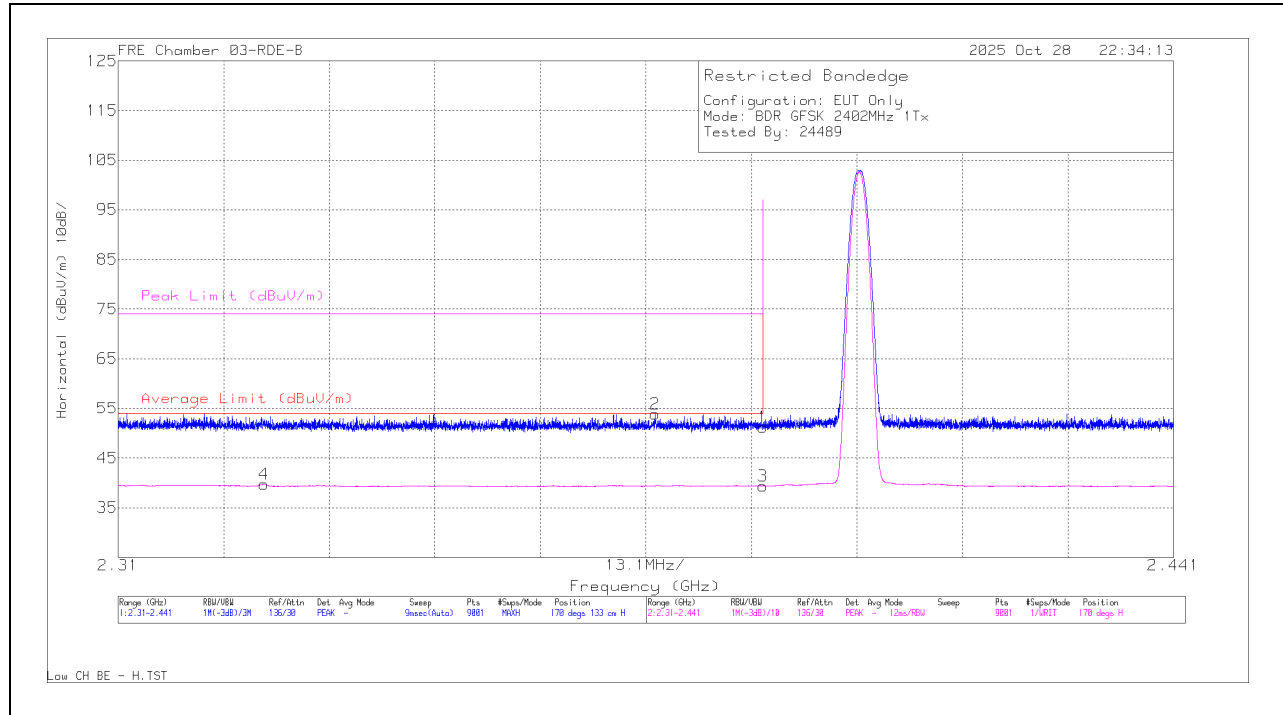
10.1.5. SISO MODE – LOW BANDEDGE – LOW POWER

2.4GHz (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2402	4	2.39	60.83	Pk	31.7	-41.3	51.23	-	-	74	-22.77	170	133	H
			2.376666	63.37	Pk	31.7	-41.23	53.84	-	-	74	-20.16	170	133	H
			2.39	49.01	VA1T	31.7	-41.3	39.41	54	-14.59	-	-	170	133	H
			2.328093	49.3	VA1T	31.6	-41.21	39.69	54	-14.31	-	-	170	133	H
			2.39	60.64	Pk	31.7	-41.3	51.04	-	-	74	-22.96	129	358	V
			2.33703	63.62	Pk	31.6	-41.2	54.02	-	-	74	-19.98	129	358	V
			2.39	49.02	VA1T	31.7	-41.3	39.42	54	-14.58	-	-	129	358	V
			2.328122	49.2	VA1T	31.6	-41.21	39.59	54	-14.41	-	-	129	358	V
		3	* 2.39	41.88	Pk	31.8	-19.9	53.78	-	-	74	-20.22	152	194	H
			* 2.373232	44.77	Pk	31.7	-19.8	56.67	-	-	74	-17.33	152	194	H
			* 2.39	29.9	VA1T	31.8	-19.9	41.8	54	-12.2	-	-	152	194	H
			* 2.388921	29.8	VA1T	31.8	-19.8	41.8	54	-12.2	-	-	152	194	H
			* 2.39	42.36	Pk	31.8	-19.9	54.26	-	-	74	-19.74	205	117	V
			* 2.389609	44.22	Pk	31.8	-19.8	56.22	-	-	74	-17.78	205	117	V
			* 2.39	29.94	VA1T	31.8	-19.9	41.84	54	-12.16	-	-	205	117	V
			* 2.389478	29.85	VA1T	31.8	-19.8	41.85	54	-12.15	-	-	205	117	V
8PSK	2402	4	* 2.39	58.16	Pk	32.2	-39	51.36	-	-	74	-22.64	249	142	H
			* 2.36965	60.2	Pk	32.1	-38.87	53.43	-	-	74	-20.57	249	142	H
			* 2.39	45.3	VA1T	32.2	-39	38.5	54	-15.5	-	-	249	142	H
			* 2.385386	45.31	VA1T	32.1	-38.6	38.81	54	-15.19	-	-	249	142	H
			* 2.39	57.05	Pk	32.2	-39	50.25	-	-	74	-23.75	198	348	V
			* 2.341194	60.15	Pk	32.1	-39	53.25	-	-	74	-20.75	198	348	V
			* 2.39	45.28	VA1T	32.2	-39	38.48	54	-15.52	-	-	198	348	V
			* 2.385255	45.31	VA1T	32.1	-38.6	38.81	54	-15.19	-	-	198	348	V
		3	* 2.39	58.17	Pk	32.2	-39	51.37	-	-	74	-22.63	284	193	H
			* 2.361863	60.42	Pk	32.1	-38.91	53.61	-	-	74	-20.39	284	193	H
			* 2.39	45.29	VA1T	32.2	-39	38.49	54	-15.51	-	-	284	193	H
			* 2.385386	45.32	VA1T	32.1	-38.6	38.82	54	-15.18	-	-	284	193	H
			* 2.39	57.32	Pk	32.2	-39	50.52	-	-	74	-23.48	318	132	V
			* 2.35147	59.72	Pk	32.1	-38.9	52.92	-	-	74	-21.08	318	132	V
			* 2.39	45.35	VA1T	32.2	-39	38.55	54	-15.45	-	-	318	132	V
			* 2.385153	45.3	VA1T	32.1	-38.6	38.8	54	-15.2	-	-	318	132	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

1TX Antenna 4**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

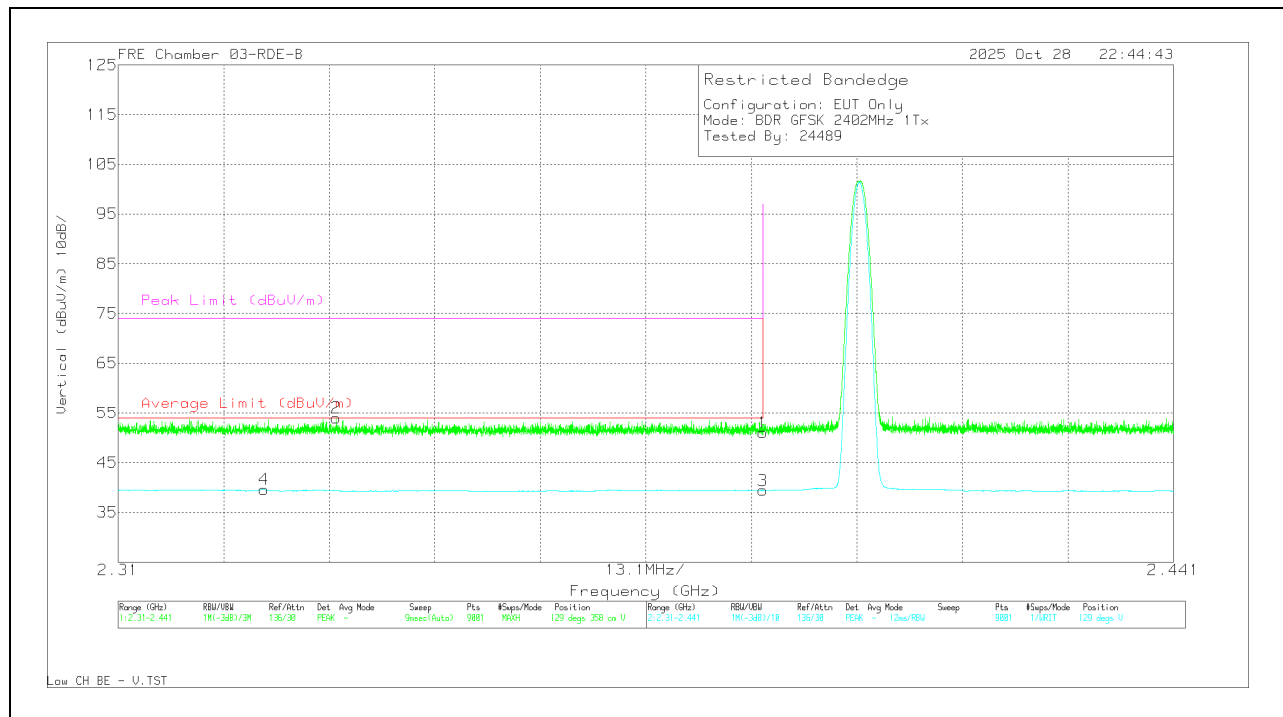
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.39	60.83	Pk	31.7	-41.3	51.23	-	-	74	-22.77	170	133	H
2	*2.376666	63.37	Pk	31.7	-41.23	53.84	-	-	74	-20.16	170	133	H
3	*2.39	49.01	VA1T	31.7	-41.3	39.41	54	-14.59	-	-	170	133	H
4	*2.328093	49.3	VA1T	31.6	-41.21	39.69	54	-14.31	-	-	170	133	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	223084 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.39	60.64	Pk	31.7	-41.3	51.04	-	-	74	-22.96	129	358	V
2	*2.33703	63.62	Pk	31.6	-41.2	54.02	-	-	74	-19.98	129	358	V
3	*2.39	49.02	VA1T	31.7	-41.3	39.42	54	-14.58	-	-	129	358	V
4	*2.328122	49.2	VA1T	31.6	-41.21	39.59	54	-14.41	-	-	129	358	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

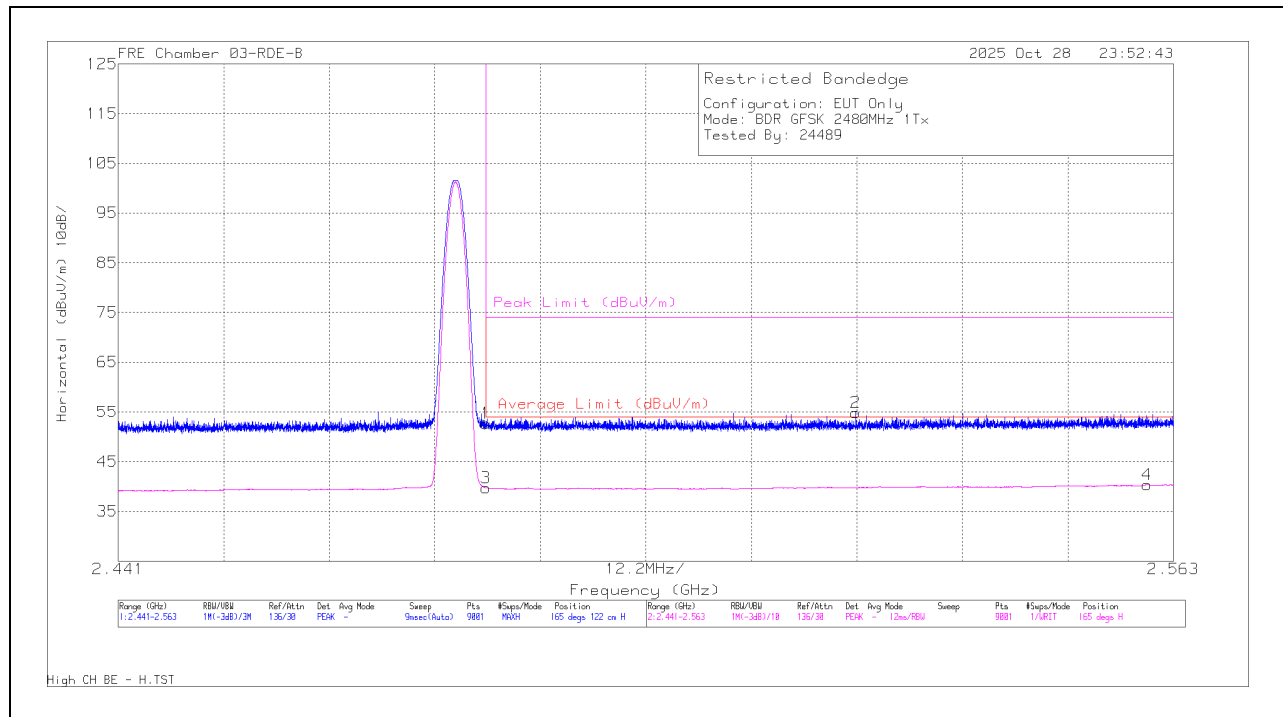
10.1.6. SISO MODE – HIGH BANDEDGE – LOW POWER

2.4GHz (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2480	4	2.4835	62.03	Pk	31.9	-41.25	52.68	-	-	74	-21.32	165	122	H
			2.526254	63.89	Pk	32.1	-41.1	54.89	-	-	74	-19.11	165	122	H
			2.4835	49.1	VA1T	31.9	-41.25	39.75	54	-14.25	-	-	165	122	H
			2.559954	48.96	VA1T	32.3	-40.9	40.36	54	-13.64	-	-	165	122	H
			2.4835	61.56	Pk	31.9	-41.25	52.21	-	-	74	-21.79	286	362	V
			2.561621	63.59	Pk	32.3	-40.94	54.95	-	-	74	-19.05	286	362	V
			2.4835	48.79	VA1T	31.9	-41.25	39.44	54	-14.56	-	-	286	362	V
			2.56299	48.93	VA1T	32.3	-40.9	40.33	54	-13.67	-	-	286	362	V
		3	* 2.4835	42.62	Pk	32.3	-20.3	54.62	-	-	74	-19.38	57	162	H
			* 2.488312	45.1	Pk	32.3	-20.2	57.2	-	-	74	-16.8	57	162	H
			* 2.4835	31.54	VA1T	32.3	-20.3	43.54	54	-10.46	-	-	57	162	H
			* 2.483507	31.53	VA1T	32.3	-20.3	43.53	54	-10.47	-	-	57	162	H
			* 2.4835	43.01	Pk	32.3	-20.3	55.01	-	-	74	-18.99	7	107	V
			2.509497	45.44	Pk	32.4	-20.4	57.44	-	-	74	-16.56	7	107	V
			* 2.4835	31.57	VA1T	32.3	-20.3	43.57	54	-10.43	-	-	7	107	V
			* 2.483507	31.57	VA1T	32.3	-20.3	43.57	54	-10.43	-	-	7	107	V
8PSK	2480	4	* 2.4835	64.61	Pk	32.2	-38.25	58.56	-	-	74	-15.44	257	113	H
			* 2.483566	64.49	Pk	32.2	-38.27	58.42	-	-	74	-15.58	257	113	H
			* 2.4835	47.82	VA1T	32.2	-38.25	41.77	54	-12.23	-	-	257	113	H
			* 2.483512	47.79	VA1T	32.2	-38.25	41.74	54	-12.26	-	-	257	113	H
			* 2.4835	62.93	Pk	32.2	-38.25	56.88	-	-	74	-17.12	214	362	V
			* 2.483552	63.23	Pk	32.2	-38.27	57.16	-	-	74	-16.84	214	362	V
			* 2.4835	47.21	VA1T	32.2	-38.25	41.16	54	-12.84	-	-	214	362	V
			* 2.483512	47.18	VA1T	32.2	-38.25	41.13	54	-12.87	-	-	214	362	V
		3	* 2.4835	60.02	Pk	32.2	-38.25	53.97	-	-	74	-20.03	4	202	H
			* 2.483539	60.3	Pk	32.2	-38.26	54.24	-	-	74	-19.76	4	202	H
			* 2.4835	46.54	VA1T	32.2	-38.25	40.49	54	-13.51	-	-	4	202	H
			* 2.483512	46.53	VA1T	32.2	-38.25	40.48	54	-13.52	-	-	4	202	H
			* 2.4835	60.41	Pk	32.2	-38.25	54.36	-	-	74	-19.64	337	101	V
			* 2.483579	61.42	Pk	32.2	-38.27	55.35	-	-	74	-18.65	337	101	V
			* 2.4835	46.88	VA1T	32.2	-38.25	40.83	54	-13.17	-	-	337	101	V
			* 2.483512	46.86	VA1T	32.2	-38.25	40.81	54	-13.19	-	-	337	101	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

1TX Antenna 4**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

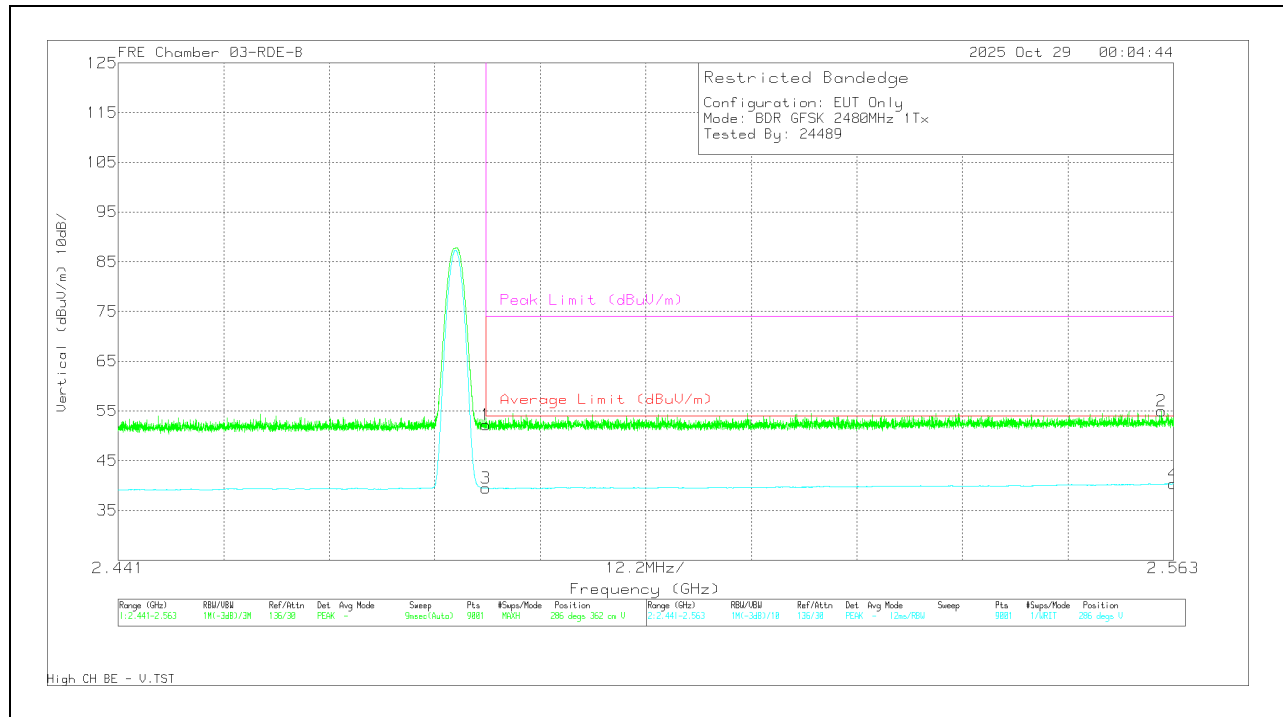
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	62.03	Pk	31.9	-41.25	52.68	-	-	74	-21.32	165	122	H
2	*2.526254	63.89	Pk	32.1	-41.1	54.89	-	-	74	-19.11	165	122	H
3	*2.4835	49.1	VA1T	31.9	-41.25	39.75	54	-14.25	-	-	165	122	H
4	*2.559954	48.96	VA1T	32.3	-40.9	40.36	54	-13.64	-	-	165	122	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	223084 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	61.56	Pk	31.9	-41.25	52.21	-	-	74	-21.79	286	362	V
2	*2.561621	63.59	Pk	32.3	-40.94	54.95	-	-	74	-19.05	286	362	V
3	*2.4835	48.79	VA1T	31.9	-41.25	39.44	54	-14.56	-	-	286	362	V
4	*2.56299	48.93	VA1T	32.3	-40.9	40.33	54	-13.67	-	-	286	362	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

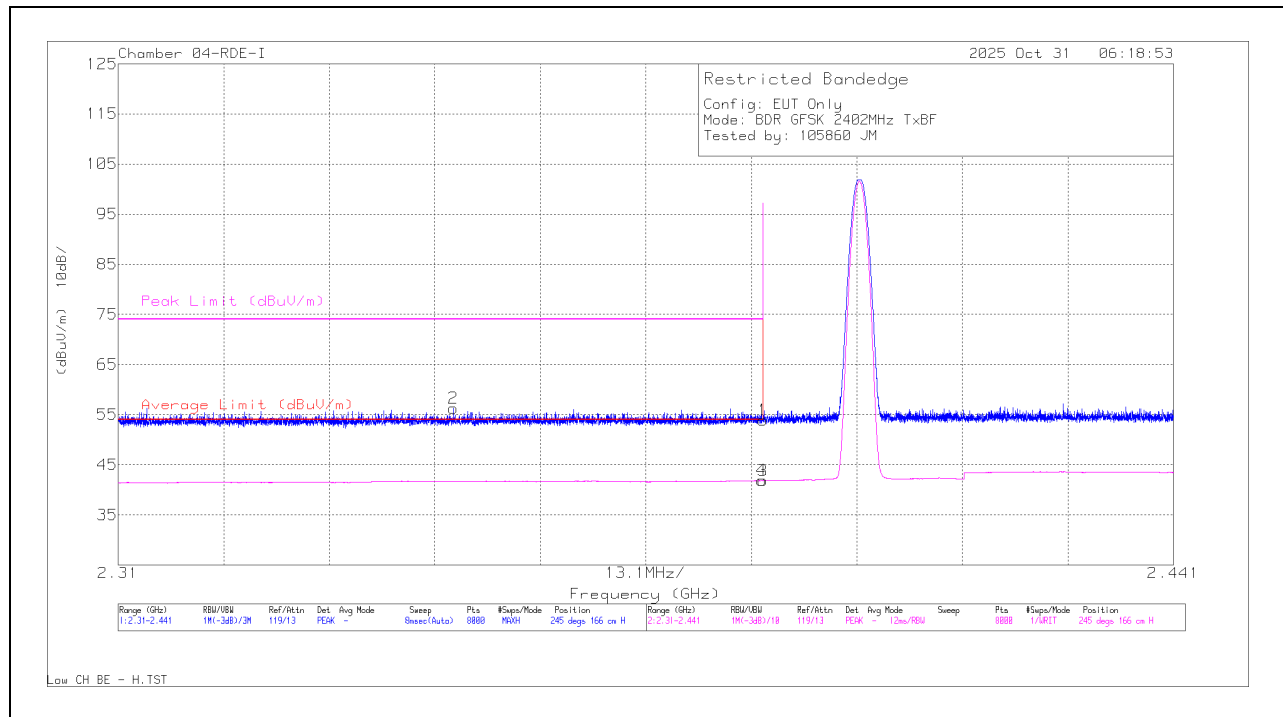
10.1.7. MIMO TXBF MODE – LOW BANDEDGE – LOW POWER

2.4GHz (MIMO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2402	4 + 3	* 2.39	41.99	Pk	31.8	-19.9	53.89	-	-	74	-20.11	245	166	H
			* 2.351614	44.32	Pk	31.7	-19.7	56.32	-	-	74	-17.68	245	166	H
			* 2.39	29.93	VA1T	31.8	-19.9	41.83	54	-12.17	-	-	245	166	H
			* 2.389887	29.85	VA1T	31.8	-19.8	41.85	54	-12.15	-	-	245	166	H
			* 2.39	41.89	Pk	31.8	-19.9	53.79	-	-	74	-20.21	202	136	V
			* 2.320743	44.39	Pk	31.6	-19.7	56.29	-	-	74	-17.71	202	136	V
			* 2.39	30.08	VA1T	31.8	-19.9	41.98	54	-12.02	-	-	202	136	V
			* 2.38969	29.99	VA1T	31.8	-19.8	41.99	54	-12.01	-	-	202	136	V
8PSK	2402	4 + 3	* 2.39	42.04	Pk	31.8	-19.9	53.94	-	-	74	-20.06	325	150	H
			* 2.383369	44.11	Pk	31.7	-19.8	56.01	-	-	74	-17.99	325	150	H
			* 2.39	29.78	VA1T	31.8	-19.9	41.68	54	-12.32	-	-	325	150	H
			* 2.389183	29.71	VA1T	31.8	-19.8	41.71	54	-12.29	-	-	325	150	H
			* 2.39	41.59	Pk	31.8	-19.9	53.49	-	-	74	-20.51	14	136	V
			* 2.353383	43.76	Pk	31.7	-19.7	55.76	-	-	74	-18.24	14	136	V
			* 2.39	29.78	VA1T	31.8	-19.9	41.68	54	-12.32	-	-	14	136	V
			* 2.389216	29.74	VA1T	31.8	-19.8	41.74	54	-12.26	-	-	14	136	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

2TX Antenna 4 + 3**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

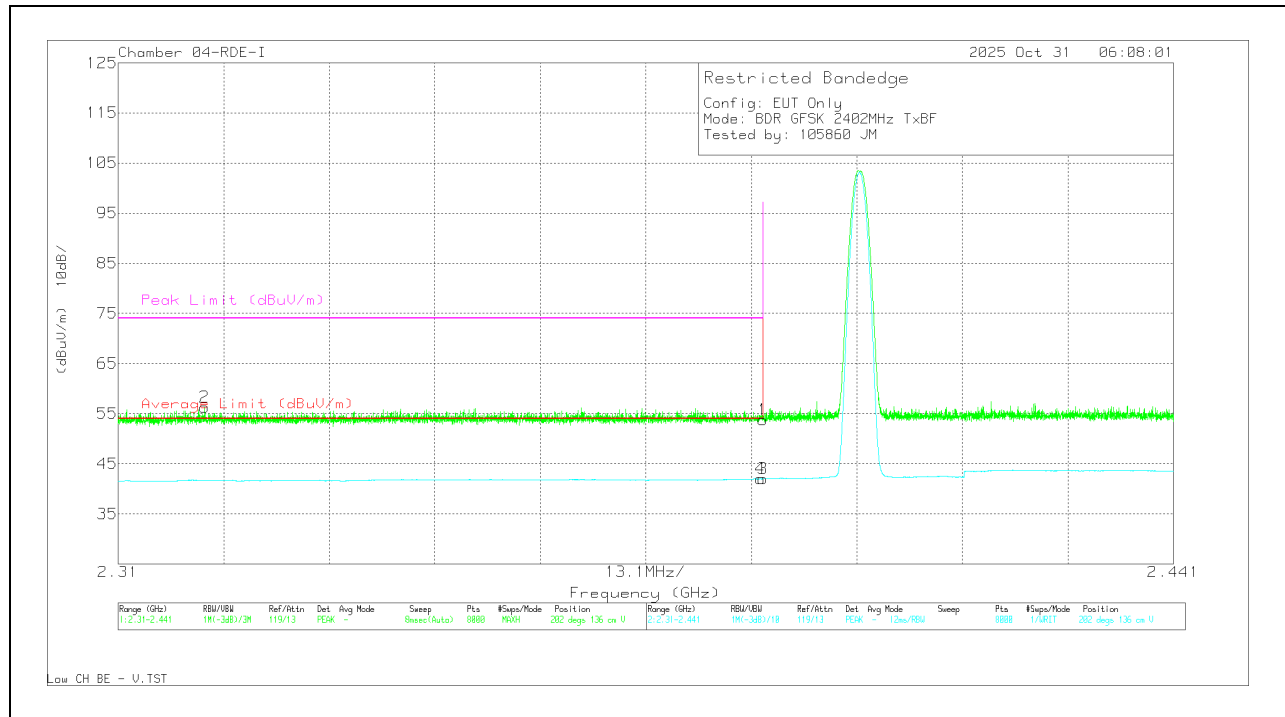
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.99	Pk	31.8	-19.9	53.89	-	-	74	-20.11	245	166	H
2	* 2.351614	44.32	Pk	31.7	-19.7	56.32	-	-	74	-17.68	245	166	H
3	* 2.39	29.93	VA1T	31.8	-19.9	41.83	54	-12.17	-	-	245	166	H
4	* 2.389887	29.85	VA1T	31.8	-19.8	41.85	54	-12.15	-	-	245	166	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	222740 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.89	Pk	31.8	-19.9	53.79	-	-	74	-20.21	202	136	V
2	* 2.320743	44.39	Pk	31.6	-19.7	56.29	-	-	74	-17.71	202	136	V
3	* 2.39	30.08	VA1T	31.8	-19.9	41.98	54	-12.02	-	-	202	136	V
4	* 2.38969	29.99	VA1T	31.8	-19.8	41.99	54	-12.01	-	-	202	136	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

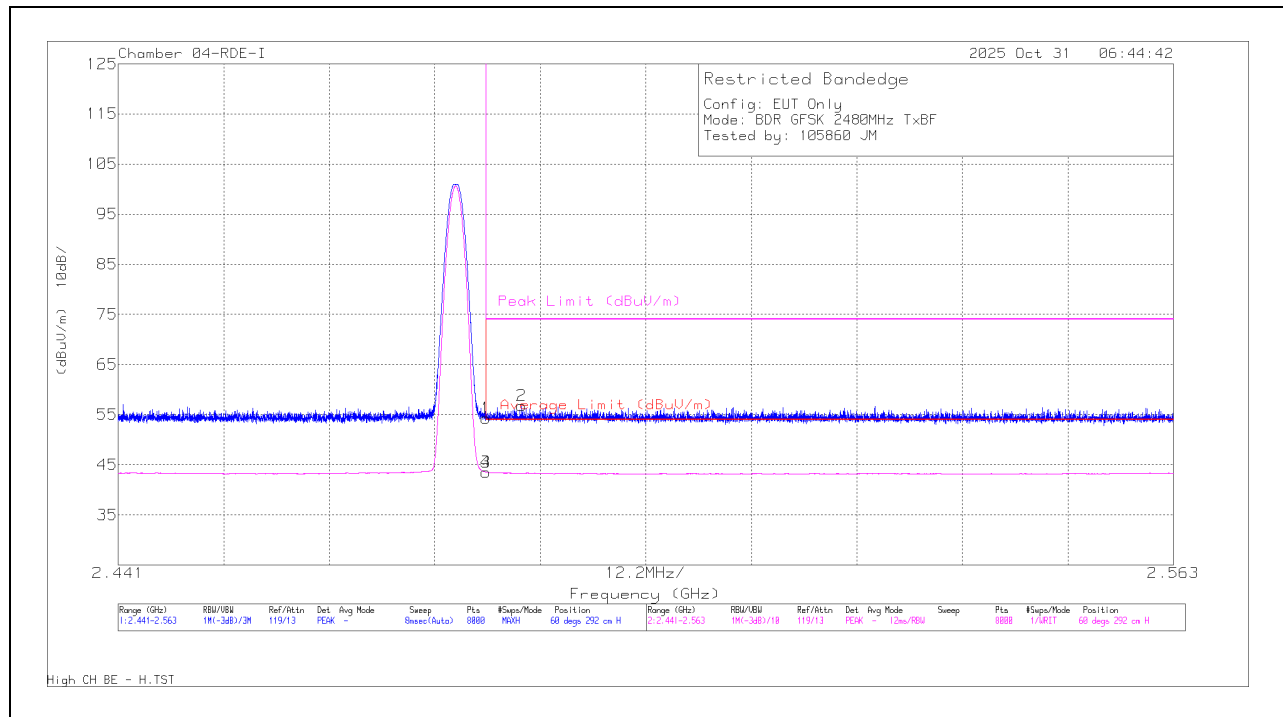
10.1.8. MIMO TXBF MODE – HIGH BANDEDGE – LOW POWER

2.4GHz (MIMO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2480	4 + 3	* 2.4835	42.28	Pk	32.3	-20.3	54.28	-	-	74	-19.72	60	292	H
			* 2.487671	44.79	Pk	32.3	-20.3	56.79	-	-	74	-17.21	60	292	H
			* 2.4835	31.55	VA1T	32.3	-20.3	43.55	54	-10.45	-	-	60	292	H
			* 2.483507	31.55	VA1T	32.3	-20.3	43.55	54	-10.45	-	-	60	292	H
			* 2.4835	42.81	Pk	32.3	-20.3	54.81	-	-	74	-19.19	21	333	V
			* 2.494519	45.39	Pk	32.3	-20.3	57.39	-	-	74	-16.61	21	333	V
			* 2.4835	31.35	VA1T	32.3	-20.3	43.35	54	-10.65	-	-	21	333	V
			2.529355	31.42	VA1T	32.4	-20.4	43.42	54	-10.58	-	-	21	333	V
8PSK	2480	4 + 3	* 2.4835	43.07	Pk	32.3	-20.3	55.07	-	-	74	-18.93	62	291	H
			2.556671	44.9	Pk	32.4	-20.5	56.8	-	-	74	-17.2	62	291	H
			* 2.4835	31.71	VA1T	32.3	-20.3	43.71	54	-10.29	-	-	62	291	H
			* 2.483507	31.7	VA1T	32.3	-20.3	43.7	54	-10.3	-	-	62	291	H
			* 2.4835	43.22	Pk	32.3	-20.3	55.22	-	-	74	-18.78	23	150	V
			* 2.4967	45.01	Pk	32.3	-20.3	57.01	-	-	74	-16.99	23	150	V
			* 2.4835	31.77	VA1T	32.3	-20.3	43.77	54	-10.23	-	-	23	150	V
			* 2.483507	31.76	VA1T	32.3	-20.3	43.76	54	-10.24	-	-	23	150	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

2TX Antenna 4 + 3**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

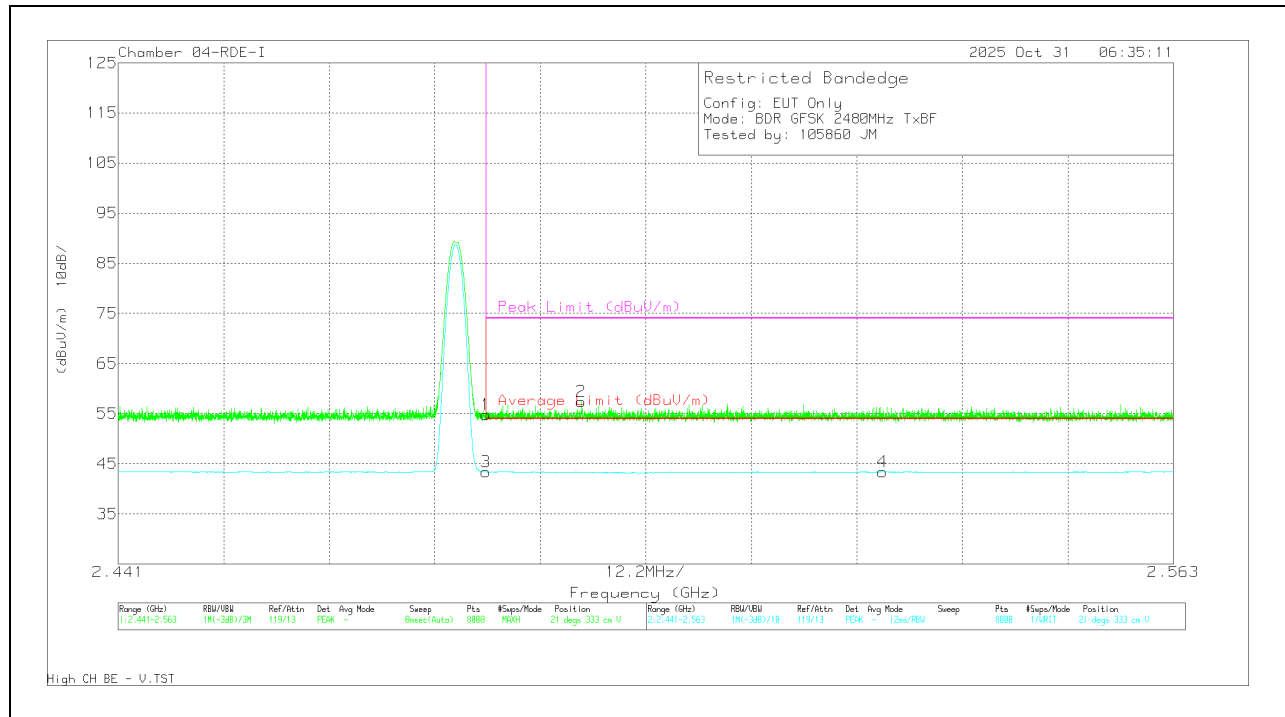
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.28	Pk	32.3	-20.3	54.28	-	-	74	-19.72	60	292	H
2	* 2.487671	44.79	Pk	32.3	-20.3	56.79	-	-	74	-17.21	60	292	H
3	* 2.4835	31.55	VA1T	32.3	-20.3	43.55	54	-10.45	-	-	60	292	H
4	* 2.483507	31.55	VA1T	32.3	-20.3	43.55	54	-10.45	-	-	60	292	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	222740 ACF (dB/m)	Amp/Cbl/Pad (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	42.81	Pk	32.3	-20.3	54.81	-	-	74	-19.19	21	333	V
2	* 2.494519	45.39	Pk	32.3	-20.3	57.39	-	-	74	-16.61	21	333	V
3	* 2.4835	31.35	VA1T	32.3	-20.3	43.35	54	-10.65	-	-	21	333	V
4	2.529355	31.42	VA1T	32.4	-20.4	43.42	54	-10.58	-	-	21	333	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

10.1.9 MIMO TXBF MODE – SPURIOUS EMISSIONS – HIGH POWER

2.4 GHz (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cb/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
GFSK	2402	4 + 3	* 3.618724	54.81	PKFH	33.2	-44.6	43.41	-	-	74	-30.59	8	299	V
			* 3.61953	54.39	PKFH	33.2	-44.8	42.79	-	-	74	-31.21	169	287	H
			* 3.636507	41.11	VAIT	33.2	-44.9	29.41	54	-24.59	-	-	8	299	V
			* 3.63941	41.21	VAIT	33.2	-44.9	29.51	54	-24.49	-	-	169	287	H
			* 4.806611	54.39	PKFH	34.1	-45.4	43.09	-	-	74	-30.91	343	395	V
			* 4.824899	54.88	PKFH	34.1	-45.3	43.68	-	-	74	-30.32	23	265	H
			* 4.831006	41.17	VAIT	34.1	-45.2	30.07	54	-23.93	-	-	23	265	H
			* 4.832007	41.2	VAIT	34.1	-45.3	30	54	-24	-	-	343	395	V
			* 7.485469	38.69	VAIT	35.7	-42.4	31.99	54	-22.01	-	-	21	394	V
			* 7.491312	52.23	PKFH	35.7	-42.6	45.33	-	-	74	-28.67	353	394	H
			* 7.493593	52.3	PKFH	35.7	-42.5	45.5	-	-	74	-28.5	21	394	V
			* 7.493917	38.74	VAIT	35.7	-42.5	31.94	54	-22.06	-	-	353	394	H
	2441	4 + 3	* 3.638917	54.88	PKFH	33.2	-44.9	43.18	-	-	74	-30.82	326	212	H
			* 3.667632	41.18	VAIT	33.3	-45.1	29.38	54	-24.62	-	-	326	212	H
			* 3.668645	54.51	PKFH	33.3	-45.1	42.71	-	-	74	-31.29	359	222	V
			* 3.672565	41.32	VAIT	33.3	-45.3	29.32	54	-24.68	-	-	359	222	V
			* 4.826606	54.83	PKFH	34.1	-45.3	43.63	-	-	74	-30.37	286	135	H
			* 4.831958	55.18	PKFH	34.1	-45.3	43.98	-	-	74	-30.02	26	234	V
			* 4.832019	41.11	VAIT	34.1	-45.3	29.91	54	-24.09	-	-	286	135	H
			* 4.833736	41.09	VAIT	34.1	-45.5	29.69	54	-24.31	-	-	26	234	V
			* 7.424631	38.55	VAIT	35.7	-42.5	31.75	54	-22.25	-	-	190	180	V
			* 7.424845	52.4	PKFH	35.7	-42.4	45.7	-	-	74	-28.3	313	231	H
			* 7.426828	38.67	VAIT	35.7	-42.5	31.87	54	-22.13	-	-	313	231	H
			* 7.427974	52.22	PKFH	35.7	-42.2	45.72	-	-	74	-28.28	190	180	V
	2480	4 + 3	* 3.806092	41.53	VAIT	33.4	-45.3	29.63	54	-24.37	-	-	66	343	H
			* 3.809888	55.28	PKFH	33.4	-45.1	43.58	-	-	74	-30.42	235	164	V
			* 3.813257	41.56	VAIT	33.4	-45.1	29.86	54	-24.14	-	-	235	164	V
			* 3.828061	55.31	PKFH	33.5	-44.8	44.01	-	-	74	-29.99	66	343	H
			* 4.809006	54.46	PKFH	34.1	-45.1	43.46	-	-	74	-30.54	272	196	H
			* 4.83095	41.15	VAIT	34.1	-45.2	30.05	54	-23.95	-	-	107	187	V
			* 4.831588	41.11	VAIT	34.1	-45.3	29.91	54	-24.09	-	-	272	196	H
			* 4.842056	54.37	PKFH	34.1	-45.3	43.17	-	-	74	-30.83	107	187	V
			* 7.55812	52.2	PKFH	35.8	-42.3	45.7	-	-	74	-28.3	184	317	H
			* 7.560413	38.57	VAIT	35.8	-42.4	31.97	54	-22.03	-	-	184	317	H
			* 7.574797	52.37	PKFH	35.8	-42.3	45.87	-	-	74	-28.13	245	183	V
			* 7.603673	38.57	VAIT	35.8	-42.5	31.87	54	-22.13	-	-	245	183	V
8PSK	2402	4 + 3	* 3.937149	41.59	VAIT	33.4	-45.6	29.39	54	-24.61	-	-	217	247	V
			* 3.9575	55.07	PKFH	33.4	-45.6	42.87	-	-	74	-31.13	217	247	V
			* 3.985218	55.8	PKFH	33.4	-45.8	43.4	-	-	74	-30.6	108	302	H
			* 3.993813	42.31	VAIT	33.4	-46.1	29.61	54	-24.39	-	-	108	302	H
			13.895129	37.58	VAIT	38.8	-39.5	36.88	-	-	-	-	270	241	V
			13.901101	37.71	VAIT	38.8	-39.3	37.21	-	-	-	-	225	317	H
			13.90979	51.95	PKFH	38.8	-39.2	51.55	-	-	-	-	225	317	H
			13.930116	51.07	PKFH	38.8	-39.5	50.37	-	-	-	-	270	241	V
			7.006022	38.9	VAIT	35.8	-43	31.7	-	-	-	-	46	337	V
			7.033071	52.33	PKFH	35.9	-42.8	45.43	-	-	-	-	46	337	V
			7.036383	51.97	PKFH	35.9	-42.7	45.17	-	-	-	-	344	104	H
			7.051388	38.87	VAIT	35.9	-42.9	31.87	-	-	-	-	344	104	H
	2441	4 + 3	* 3.974135	42.07	VAIT	33.5	-46.4	29.17	54	-24.83	-	-	35	359	V
			* 3.975543	41.99	VAIT	33.5	-46.38	29.11	54	-24.89	-	-	320	243	H
			* 3.977006	55.81	PKFH	33.5	-46.36	42.95	-	-	74	-31.05	35	359	V
			* 3.992231	55.07	PKFH	33.5	-46.17	42.4	-	-	74	-31.6	320	243	H
			13.713996	54.15	PKFH	39.3	-42.99	50.46	-	-	-	-	58	365	V
			13.73324	41.14	VAIT	39.3	-43.1	37.34	-	-	-	-	58	365	V
			13.750562	41	VAIT	39.3	-42.5	37.8	-	-	-	-	350	365	H
			13.762597	54.44	PKFH	39.4	-42.35	51.49	-	-	-	-	350	365	H
			6.987865	53.95	PKFH	35.9	-45.23	44.62	-	-	-	-	52	135	H
			6.98989	55.16	PKFH	35.9	-45.22	45.84	-	-	-	-	291	380	V
			6.995686	40.89	VAIT	35.9	-45.23	31.56	-	-	-	-	291	380	V
			6.99762	40.82	VAIT	35.9	-45.24	31.48	-	-	-	-	52	135	H
	2480	4 + 3	* 3.868857	40.98	VAIT	33.5	-45	29.48	54	-24.52	-	-	40	359	H
			* 3.869976	40.95	VAIT	33.5	-45.2	29.25	54	-24.75	-	-	8	288	V
			* 3.873798	54.17	PKFH	33.5	-45	42.67	-	-	74	-31.33	8	288	V
			* 3.876742	54.48	PKFH	33.5	-44.9	43.08	-	-	74	-30.92	40	359	H
			* 4.88846	40.88	VAIT	34.2	-45	30.08	54	-23.92	-	-	342	376	V
			* 4.888778	40.86	VAIT	34.2	-45	30.06	54	-23.94	-	-	346	193	H
			* 4.892449	55.16	PKFH	34.2	-45.2	44.16	-	-	74	-29.84	346	193	H
			* 4.896478	54.44	PKFH	34.2	-45	43.64	-	-	74	-30.36	342	376	V
			* 7.662535	38.39	VAIT	35.8	-42	32.19	54	-21.81	-	-	199	179	H
			* 7.670655	52.13	PKFH	35.8	-41.9	46.03	-	-	74	-27.97	199	179	H
			* 7.675631	38.26	VAIT	35.8	-42	32.06	54	-21.94	-	-	125	101	V
			* 7.70804	52.26	PKFH	35.8	-41.7	46.36	-	-	74	-27.64	125	101	V

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

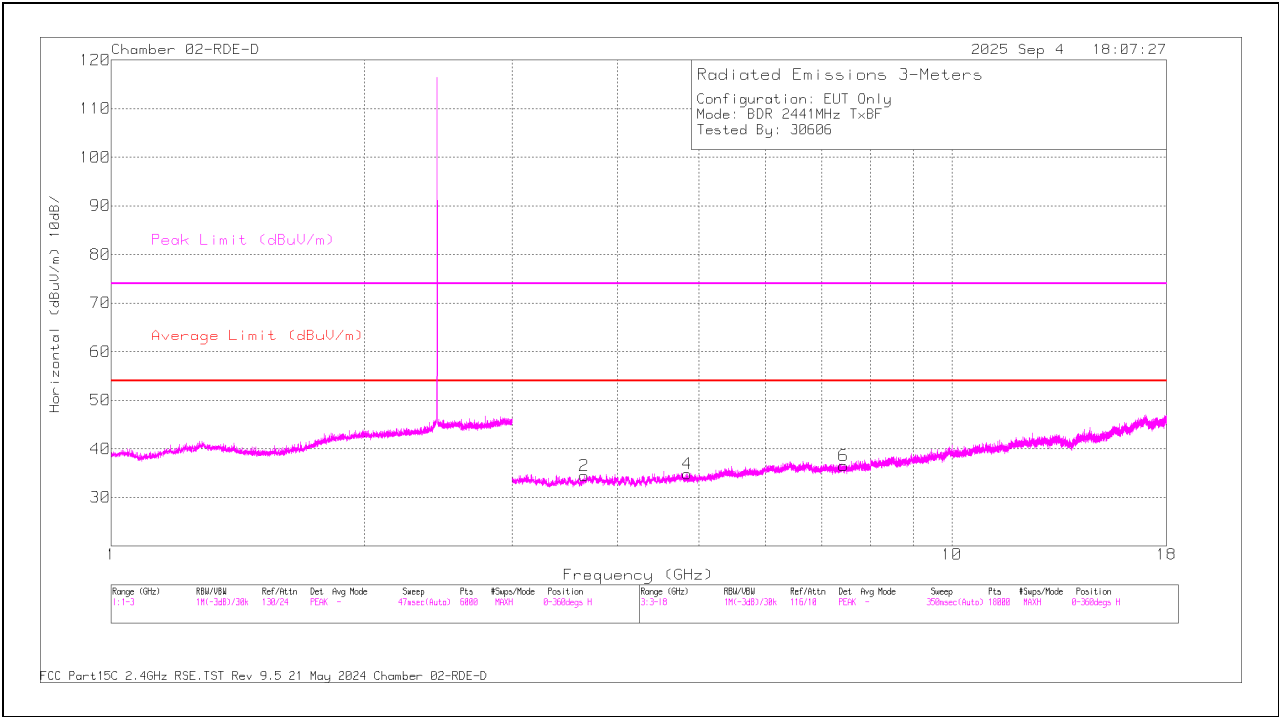
Pk - Peak detector

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

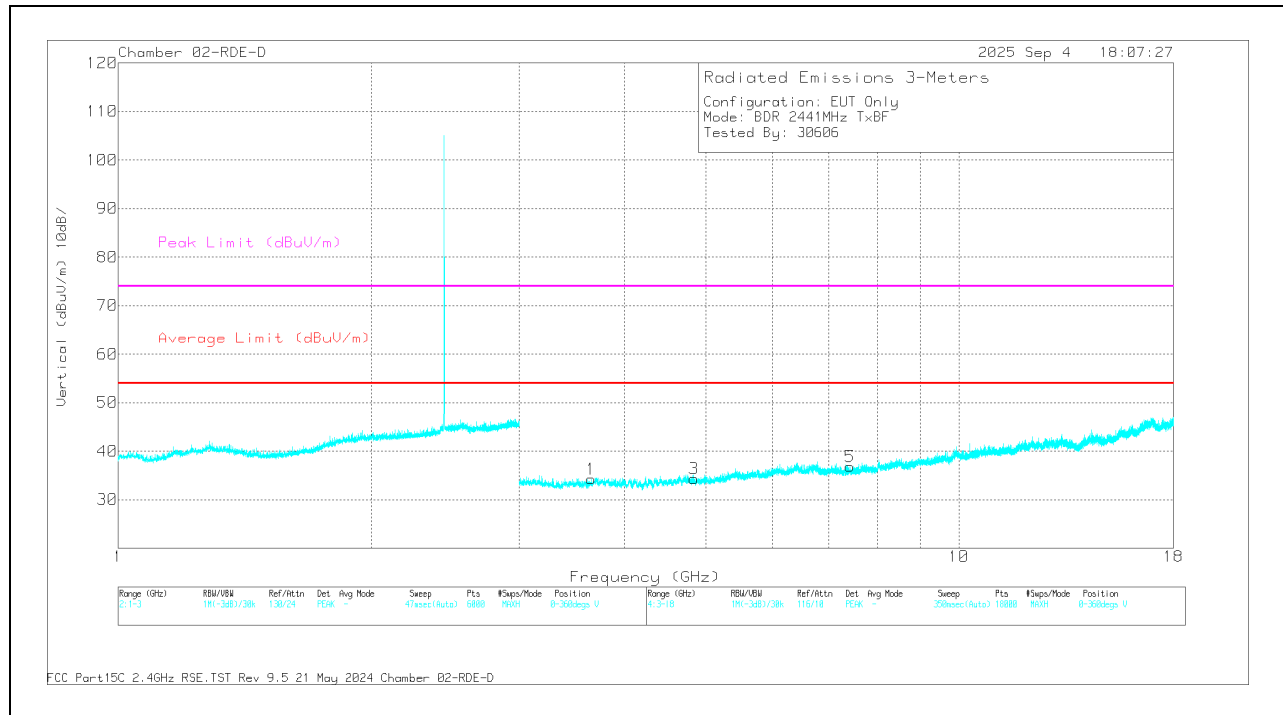
TXBF MODE - HIGH POWER

SPURIOUS HARMONIC (MID CHANNEL)

HORIZONTAL RESULT



VERTICAL RESULT



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Ampl/Cbl/Fitr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.638917	54.88	PKFH	33.2	-44.9	43.18	-	-	74	-30.82	326	212	H
	* 3.667632	41.18	VA1T	33.3	-45.1	29.38	54	-24.62	-	-	326	212	H
2	* 3.668645	54.51	PKFH	33.3	-45.1	42.71	-	-	74	-31.29	359	222	V
	* 3.672565	41.32	VA1T	33.3	-45.3	29.32	54	-24.68	-	-	359	222	V
3	* 4.826606	54.83	PKFH	34.1	-45.3	43.63	-	-	74	-30.37	286	135	H
	* 4.831958	55.18	PKFH	34.1	-45.3	43.98	-	-	74	-30.02	26	234	V
4	* 4.832019	41.11	VA1T	34.1	-45.3	29.91	54	-24.09	-	-	286	135	H
	* 4.833736	41.09	VA1T	34.1	-45.5	29.69	54	-24.31	-	-	26	234	V
5	* 7.424631	38.55	VA1T	35.7	-42.5	31.75	54	-22.25	-	-	190	180	V
	* 7.424845	52.4	PKFH	35.7	-42.4	45.7	-	-	74	-28.3	313	231	H
6	* 7.426828	38.67	VA1T	35.7	-42.5	31.87	54	-22.13	-	-	313	231	H
	* 7.427974	52.22	PKFH	35.7	-42.2	45.72	-	-	74	-28.28	190	180	V

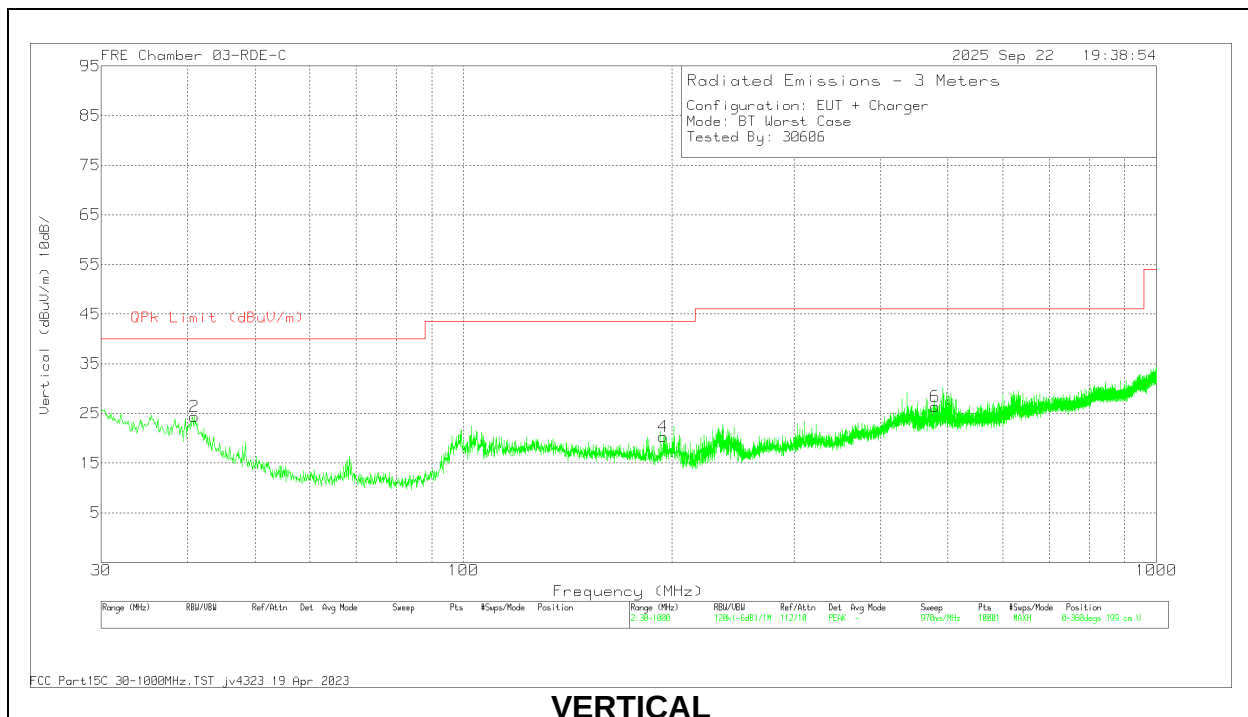
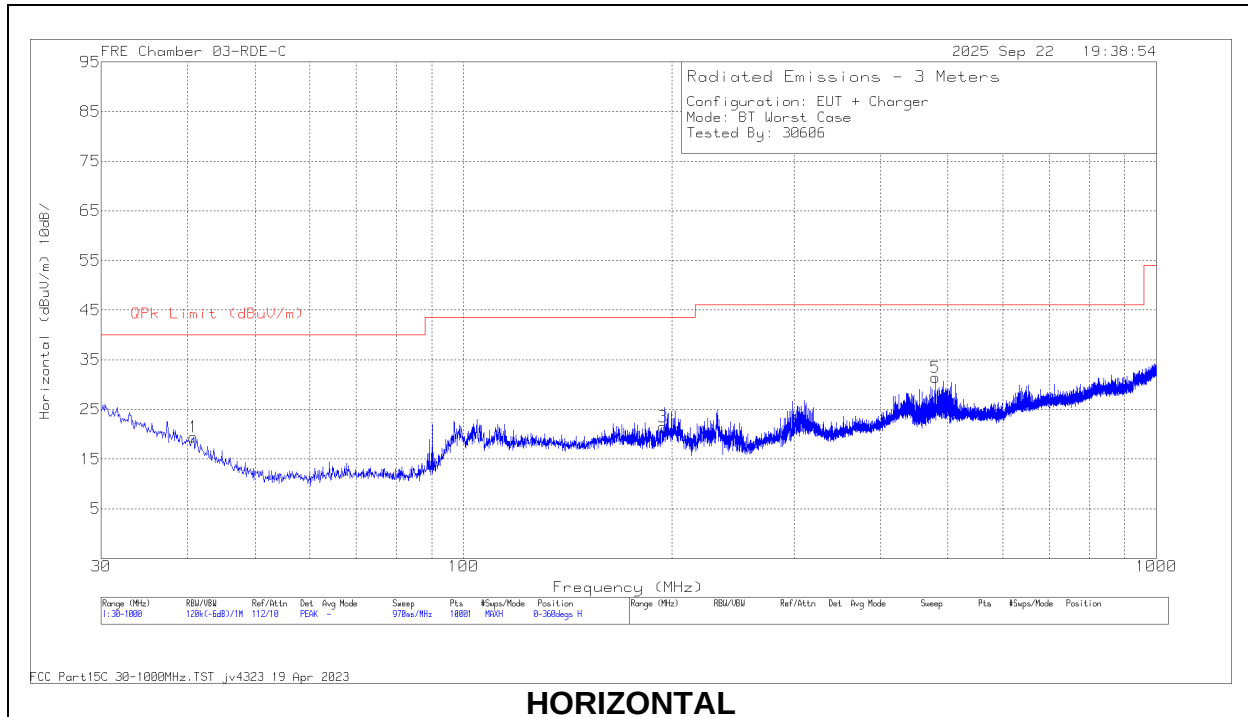
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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)



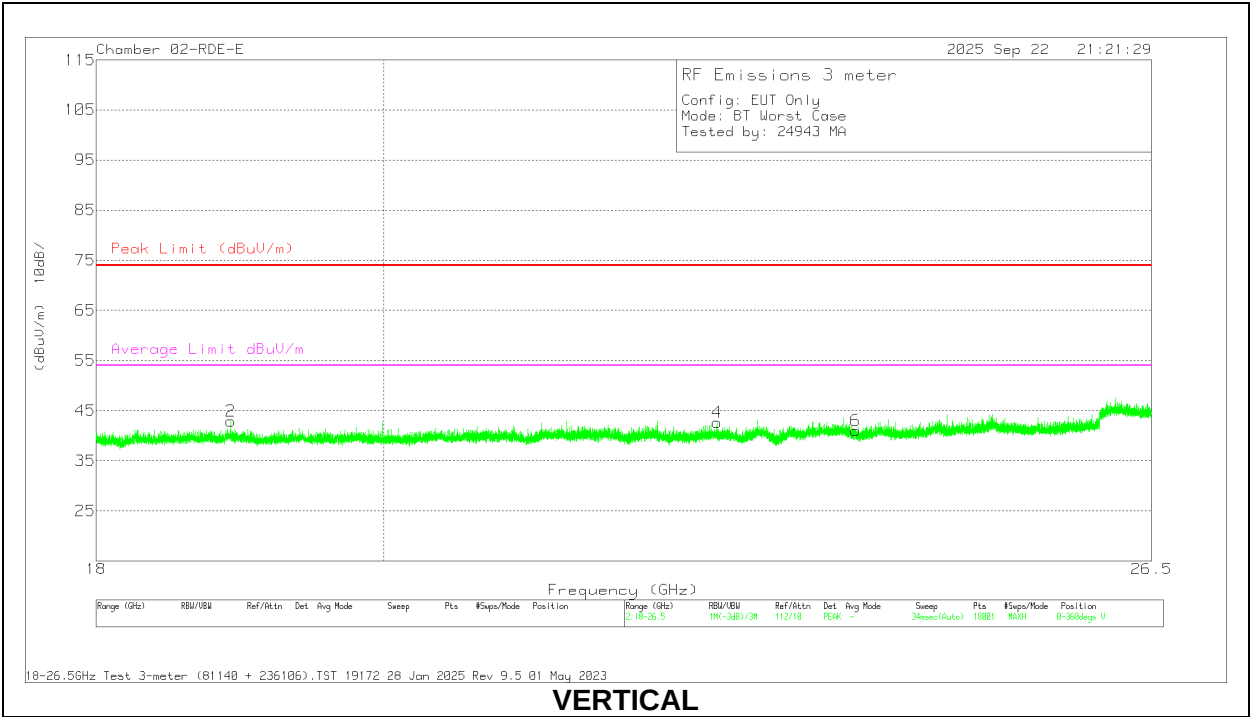
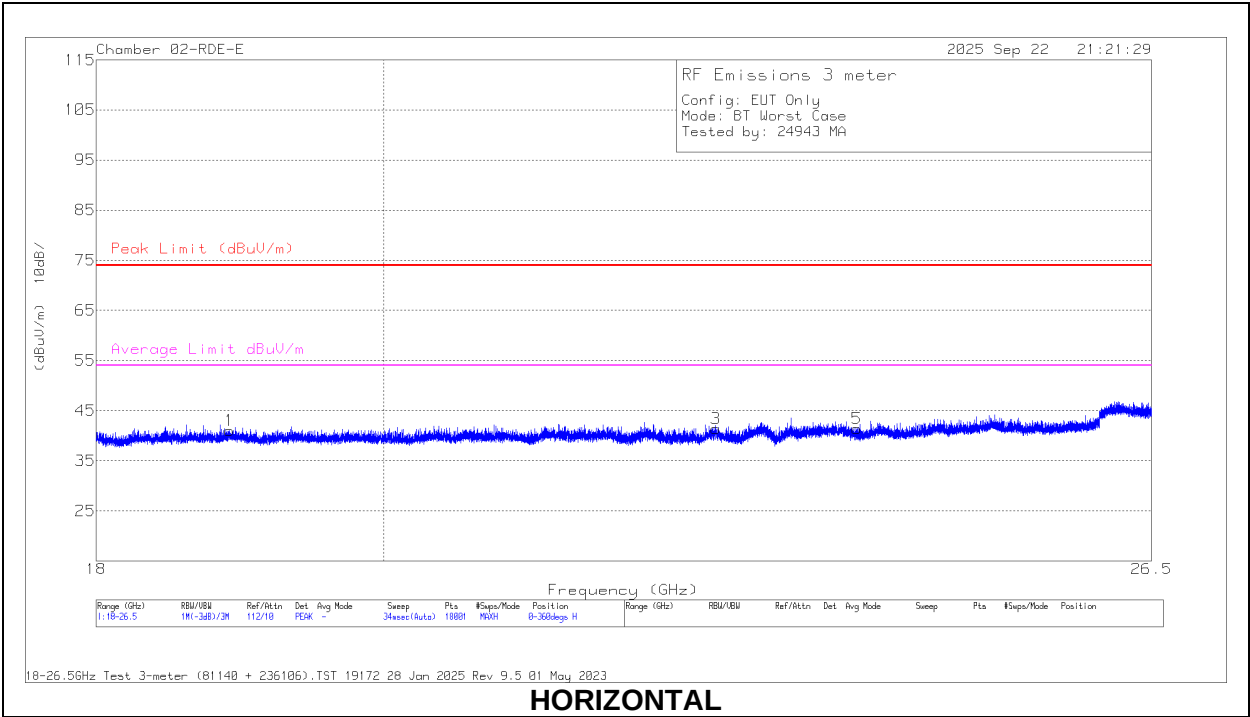
Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	232075 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.767	31.51	Pk	19.4	-31.5	19.41	40	-20.59	0-360	298	H
2	40.864	36.61	Pk	19.3	-31.5	24.41	40	-15.59	0-360	104	V
3	194.027	33.77	Pk	17.9	-30.2	21.47	43.52	-22.05	0-360	199	H
4	194.318	32.66	Pk	17.9	-30.2	20.36	43.52	-23.16	0-360	104	V
6	479.789	31.42	Pk	23.8	-28.8	26.42	46.02	-19.6	0-360	104	V
5	479.886	36.41	Pk	23.8	-28.8	31.41	46.02	-14.61	0-360	199	H

Pk - 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	81140 ACF (dB/m)	Coupler (dB)	Cables (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.899583	50.87	Pk	32.2	-62.5	20.5	41.07	74	-32.93	54	-12.93	0-360	101	H
2	* 18.911861	52.73	Pk	32.2	-62.5	20.5	42.93	74	-31.07	54	-11.07	0-360	101	V
3	* 22.59047	47.92	Pk	33	-62.1	22.6	41.42	74	-32.58	54	-12.58	0-360	200	H
4	* 22.600859	49.2	Pk	33	-62.1	22.6	42.7	74	-31.30	54	-11.30	0-360	200	V
5	* 23.787081	48.12	Pk	33.4	-63.4	23.3	41.42	74	-32.58	54	-12.58	0-360	200	H
6	* 23.777636	47.65	Pk	33.4	-63.3	23.3	41.05	74	-32.95	54	-12.95	0-360	200	V

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

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

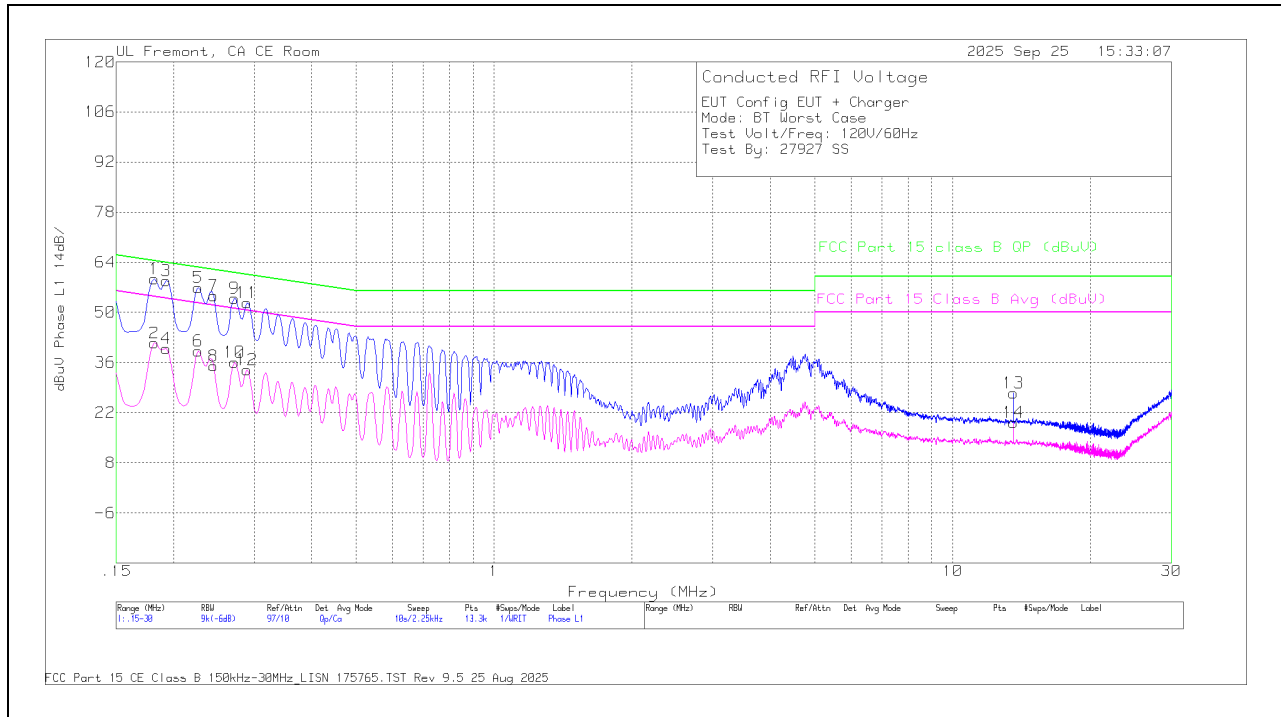
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC POWER LINE WITH AC/DC ADAPTER

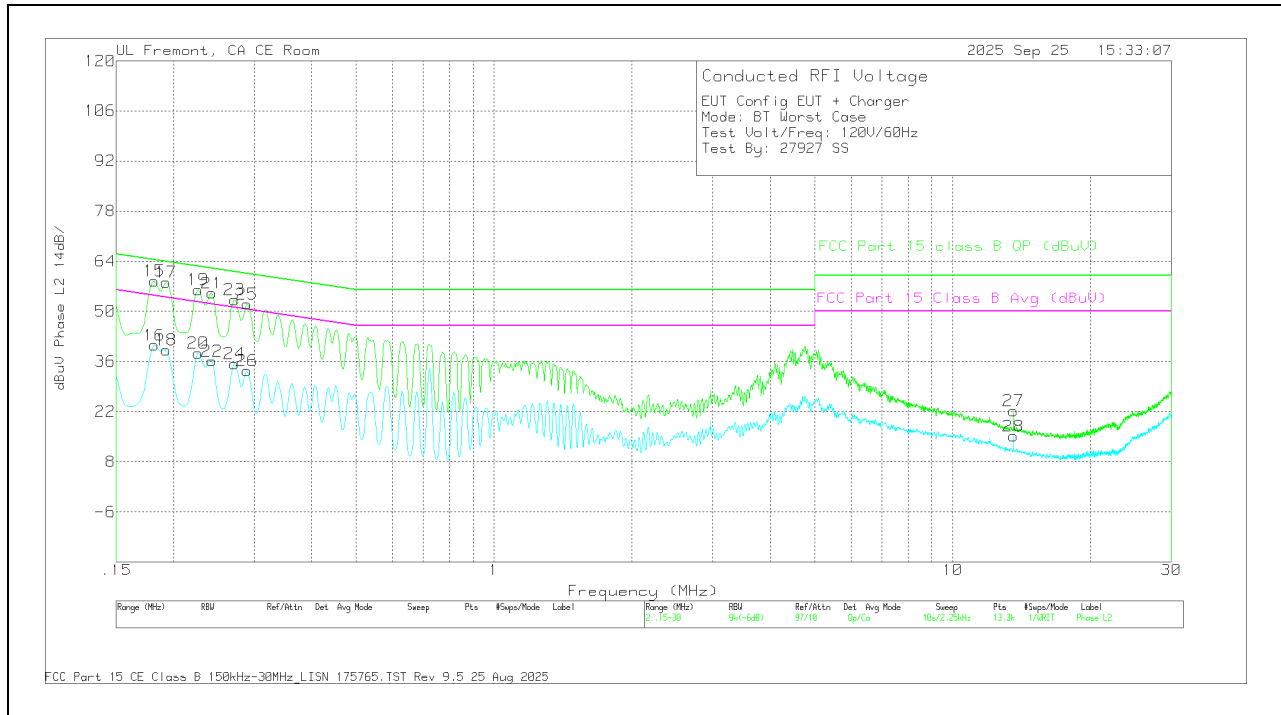
LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL (dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1815	23.03	Ca	-.1	.1	8.4	10	41.43	54.42	-12.99	-	-
4	.1928	21.42	Ca	0	.1	8.4	10	39.92	53.92	-14	-	-
6	.2265	20.77	Ca	.1	0	8.3	10	39.17	52.58	-13.41	-	-
8	.2445	16.79	Ca	.1	0	8.2	10	35.09	51.94	-16.85	-	-
10	.2715	17.87	Ca	.1	0	8.1	10	36.07	51.07	-15	-	-
12	.2895	15.7	Ca	.2	0	8	10	33.9	50.54	-16.64	-	-
14	13.56	.7	Ca	.3	.1	8.2	10	19.3	50	-30.7	-	-
1	.1815	40.99	Qp	-.1	.1	8.4	10	59.39	-	-	64.42	-5.03
3	.1928	40.42	Qp	0	.1	8.4	10	58.92	-	-	63.92	-5
5	.2265	38.54	Qp	.1	0	8.3	10	56.94	-	-	62.58	-5.64
7	.2445	36.41	Qp	.1	0	8.2	10	54.71	-	-	61.94	-7.23
9	.2715	35.76	Qp	.1	0	8.1	10	53.96	-	-	61.07	-7.11
11	.2895	34.52	Qp	.2	0	8	10	52.72	-	-	60.54	-7.82
13	13.56	8.92	Qp	.3	.1	8.2	10	27.52	-	-	60	-32.48

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS

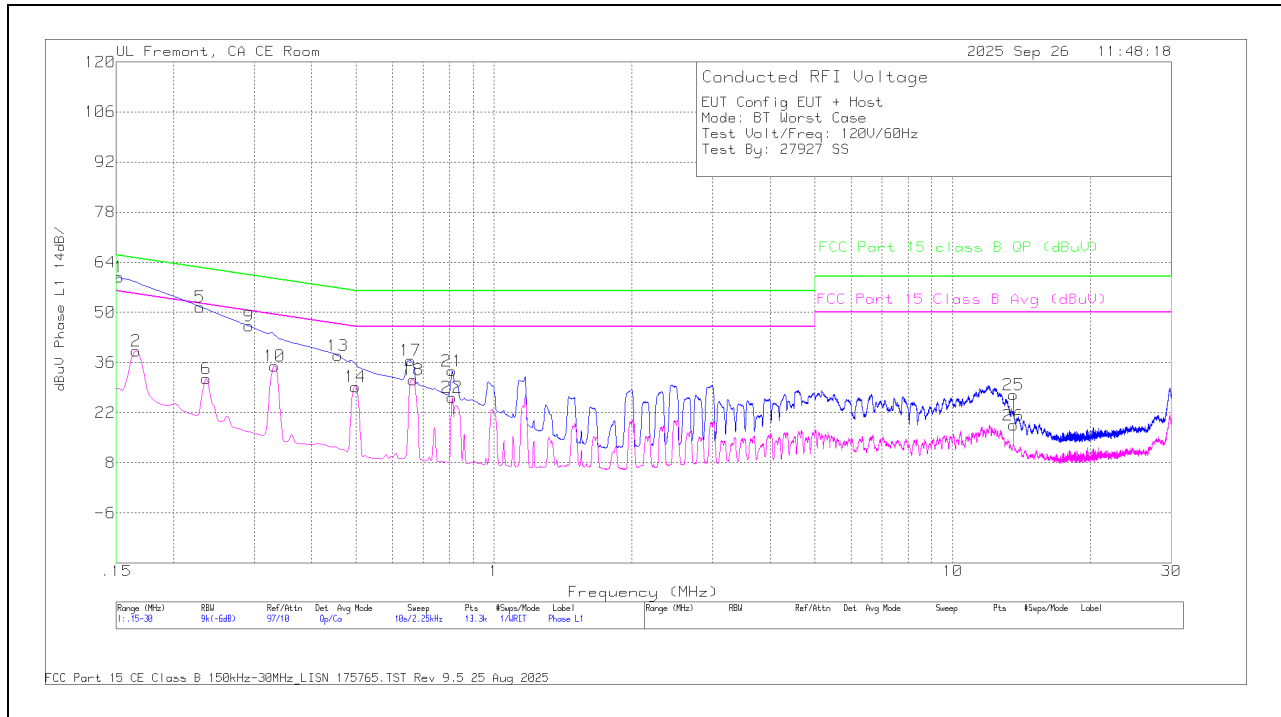


Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL (dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.1815	22.25	Ca	-.1	0	8.4	10	40.55	54.42	-13.87	-	-
18	.1928	20.77	Ca	0	0	8.4	10	39.17	53.92	-14.75	-	-
20	.2265	19.97	Ca	.1	0	8.3	10	38.37	52.58	-14.21	-	-
22	.2423	17.85	Ca	.1	0	8.2	10	36.15	52.02	-15.87	-	-
24	.2715	17.22	Ca	.1	0	8.1	10	35.42	51.07	-15.65	-	-
26	.2895	15.21	Ca	.2	0	8	10	33.41	50.54	-17.13	-	-
28	13.56	-3.47	Ca	.3	.1	8.2	10	15.13	50	-34.87	-	-
15	.1815	40.23	Qp	-.1	0	8.4	10	58.53	-	-	64.42	-5.89
17	.1928	39.79	Qp	0	0	8.4	10	58.19	-	-	63.92	-5.73
19	.2265	37.7	Qp	.1	0	8.3	10	56.1	-	-	62.58	-6.48
21	.2423	36.79	Qp	.1	0	8.2	10	55.09	-	-	62.02	-6.93
23	.2715	34.98	Qp	.1	0	8.1	10	53.18	-	-	61.07	-7.89
25	.2895	33.89	Qp	.2	0	8	10	52.09	-	-	60.54	-8.45
27	13.56	3.64	Qp	.3	.1	8.2	10	22.24	-	-	60	-37.76

Qp - Quasi-Peak detector
 Ca - CISPR average detection

11.2. AC POWER LINE WITH LAPTOP

LINE 1 RESULTS

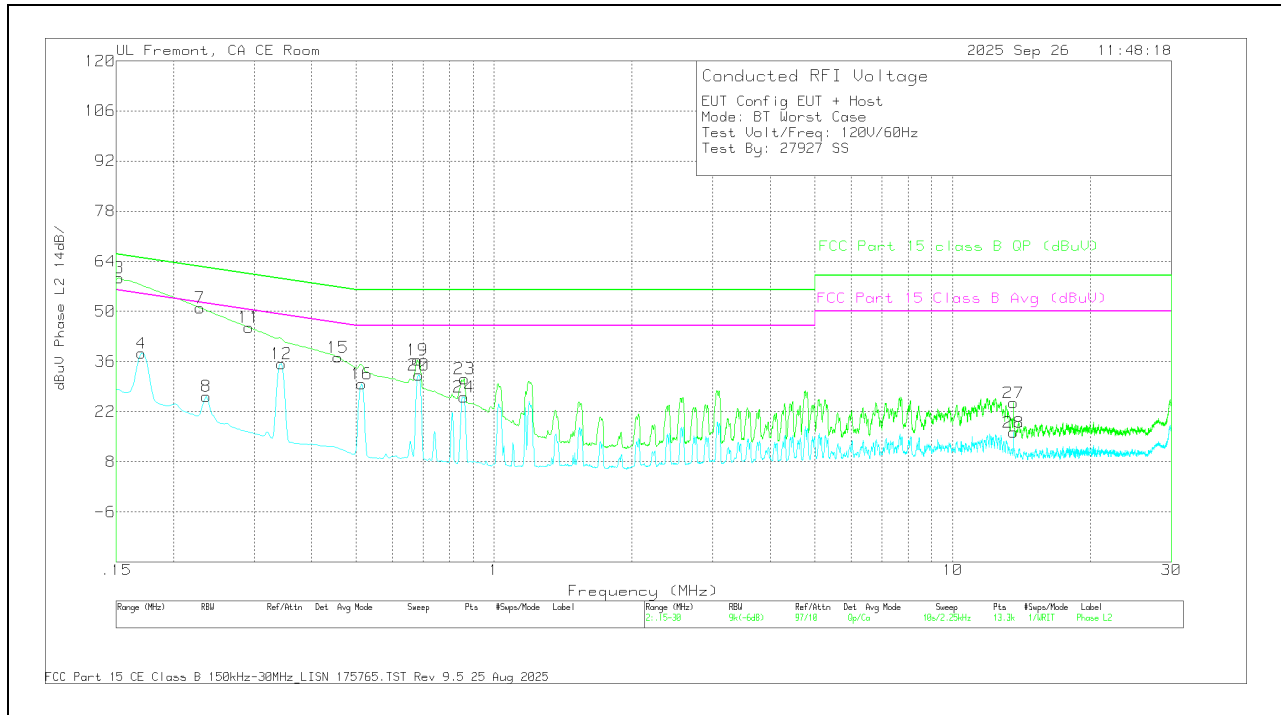


Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL (dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1658	20.83	Ca	-.2	.1	8.5	10	39.23	55.17	-15.94	-	-
6	.2355	13.15	Ca	.1	0	8.3	10	31.55	52.25	-20.7	-	-
10	.3323	17.04	Ca	-.3	0	8.3	10	35.04	49.39	-14.35	-	-
14	.4988	11.44	Ca	-.1	0	7.9	10	29.24	46.02	-16.78	-	-
18	.6653	12.72	Ca	.2	0	8.3	10	31.22	46	-14.78	-	-
22	.8093	8.1	Ca	.3	0	7.9	10	26.3	46	-19.7	-	-
26	13.56	-14	Ca	.3	.1	8.2	10	18.46	50	-31.54	-	-
1	.1523	41.68	Qp	-.4	.1	8.5	10	59.88	-	-	65.88	-6
5	.2288	33.16	Qp	.1	0	8.3	10	51.56	-	-	62.49	-10.93
9	.2918	27.96	Qp	.2	0	8	10	46.16	-	-	60.47	-14.31
13	.456	18.82	Qp	.3	0	8.8	10	37.92	-	-	56.77	-18.85
17	.6585	18.11	Qp	.1	0	8.4	10	36.61	-	-	56	-19.39
21	.8093	15.49	Qp	.3	0	7.9	10	33.69	-	-	56	-22.31
25	13.56	8.43	Qp	.3	.1	8.2	10	27.03	-	-	60	-32.97

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL (dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
4	.1703	19.97	Ca	-.2	0	8.5	10	38.27	54.95	-16.68	-	-
8	.2355	7.81	Ca	.1	0	8.3	10	26.21	52.25	-26.04	-	-
12	.3435	17.51	Ca	-.5	0	8.3	10	35.31	49.12	-13.81	-	-
16	.5145	11.99	Ca	-.1	0	7.8	10	29.69	46	-16.31	-	-
20	.6855	13.75	Ca	.2	0	8.3	10	32.25	46	-13.75	-	-
24	.8588	7.95	Ca	.2	0	8	10	26.15	46	-19.85	-	-
28	13.56	-2.42	Ca	.3	.1	8.2	10	16.18	50	-33.82	-	-
3	.1523	41.16	Qp	-.4	.1	8.5	10	59.36	-	-	65.88	-6.52
7	.2288	32.57	Qp	.1	0	8.3	10	50.97	-	-	62.49	-11.52
11	.2918	27.35	Qp	.2	0	8	10	45.55	-	-	60.47	-14.92
15	.456	18.1	Qp	.3	0	8.8	10	37.2	-	-	56.77	-19.57
19	.681	17.92	Qp	.2	0	8.3	10	36.42	-	-	56	-19.58
23	.861	13.02	Qp	.2	0	8	10	31.22	-	-	56	-24.78
27	13.56	5.83	Qp	.3	.1	8.2	10	24.43	-	-	60	-35.57

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15941282-EP1V1 for setup photos

13. APPENDIX A – SPOT CHECK EVALUATION

13.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3575, A3634 and A3635.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for disabled/enabled cellular bands via software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3575	BCG-E9145A	579C-E9145A		eSIM only	-
A3634	BCG-E9147A	579C-E9147A	No B14/29/71	eSIM + pSIM	A3575
A3635	BCG-E9148A	579C-E9148A	No B14/29/53/71/MSS		

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dB} = |V_{dB} - R_{dB}| \quad (1)$$

$$d_{dB} \leq d_{dBmax} \quad (2)$$

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where d_{dB} is deviation between the variant and the reference model, V_{dB} is variant spot check level, R_{dB} is the corresponding reference measurement level, d_{dBmax} is the maximum deviation d_{dB} allowed, and M_{dB} is the margin in dB.

13.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3634

A3634 SPOT CHECK RESULTS										
Equipment Class / Technology	Frequency (GHz)	Mode	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3575	Sub Model: A3634	Delta (dB)	Margin	Remarks
						FCC ID : BCG-E9145A IC : 579C-E9145A	FCC ID : BCG-E9147A IC : 579C-E9147A			
DSS / BT	2.4	GFSK (TxBF) High Power	Output Power (dBm)	Mid	2441	20.32	20.15	-0.17	-0.68	Note 1
		8PSK (SISO ANT3) High Power	Radiated Bandedge (dBuV/m)	High	* 2.4835	69.44	67.61	-1.83	-4.56	Note 1
		8PSK (TxBF) High Power	RSE (dBuV/m)	High	*7.662535	32.19	32.20	0.01	-21.81	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

13.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3635

A3635 SPOT CHECK RESULTS										
Equipment Class / Technology	Frequency (GHz)	Mode	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3575	Sub Model: A3635	Delta (dB)	Margin	Remarks
						FCC ID : BCG-E9145A IC : 579C-E9145A	FCC ID : BCG-E9148A IC : 579C-E9148A			
DSS / BT	2.4	GFSK (TxBF) High Power	Output Power (dBm)	Mid	2441	20.32	20.06	-0.26	-0.68	Note 1
		8PSK (SISO ANT3) High Power	Radiated Bandedge (dBuV/m)	High	* 2.4835	69.44	70.15	0.71	-4.56	Note 1
		8PSK (TxBF) High Power	RSE (dBuV/m)	High	*7.662535	32.19	32.27	0.08	-21.81	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.