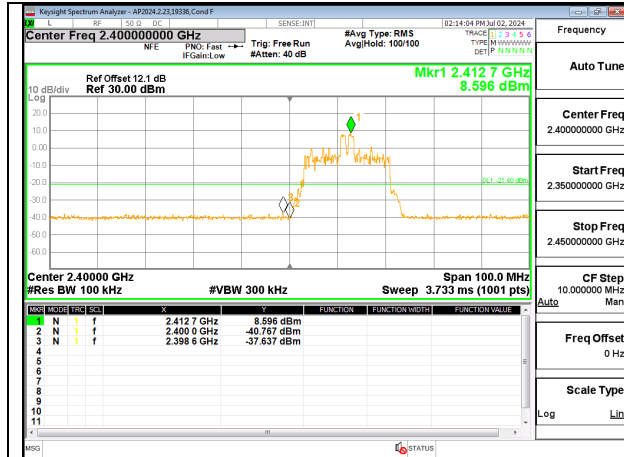
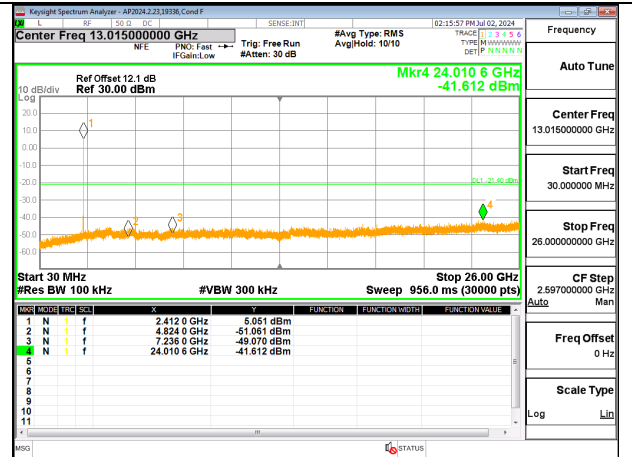


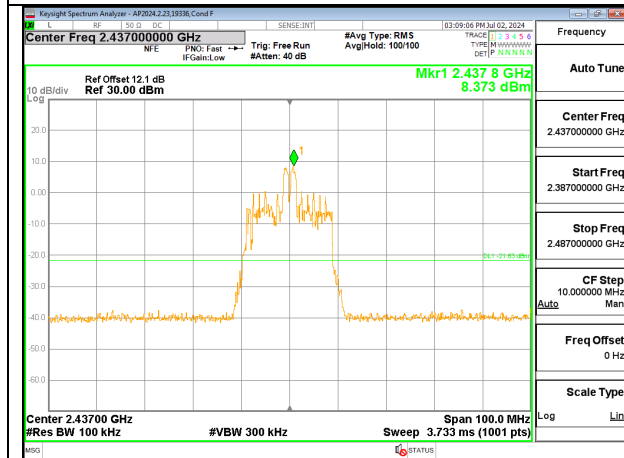
ANT 4 + ANT 3 2TX MODE: 26-Tones, RU Index 4



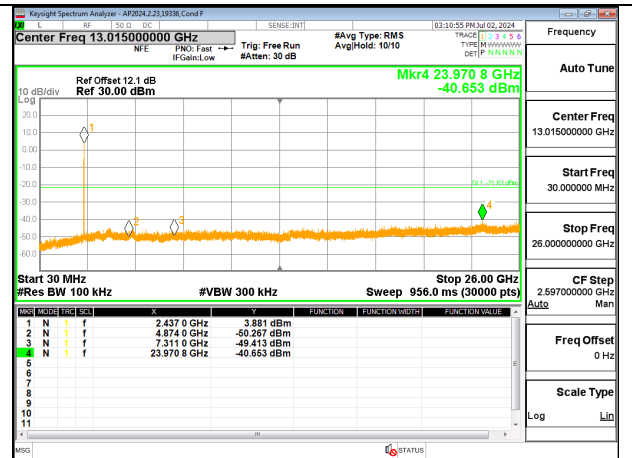
LOW CHANNEL 1 BANDEGE ANT 4



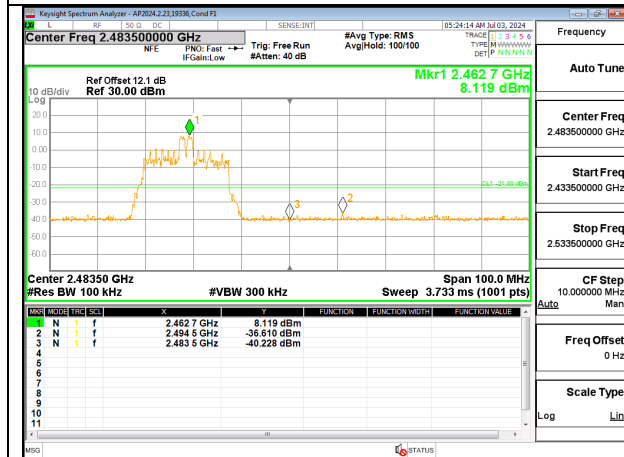
OUT-OF-BAND LOW CHANNEL 1 ANT 4



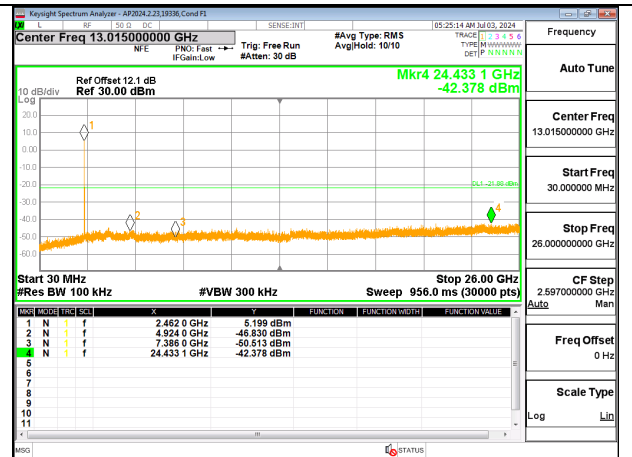
IN-BAND REFERENCE LEVEL ANT 4



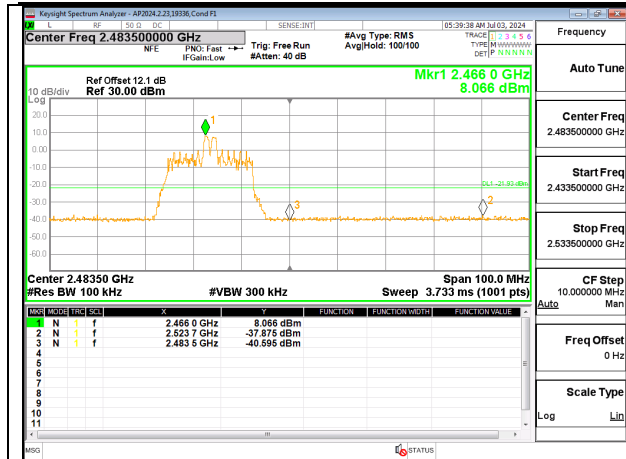
OUT-OF-BAND MID CHANNEL ANT 4



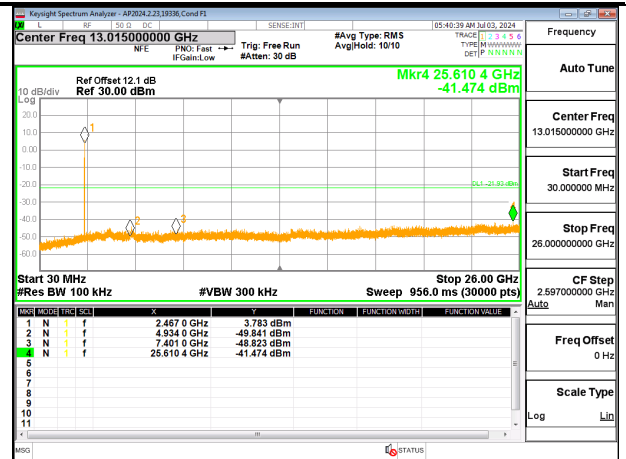
HIGH CHANNEL 11 BANDEGE ANT 4



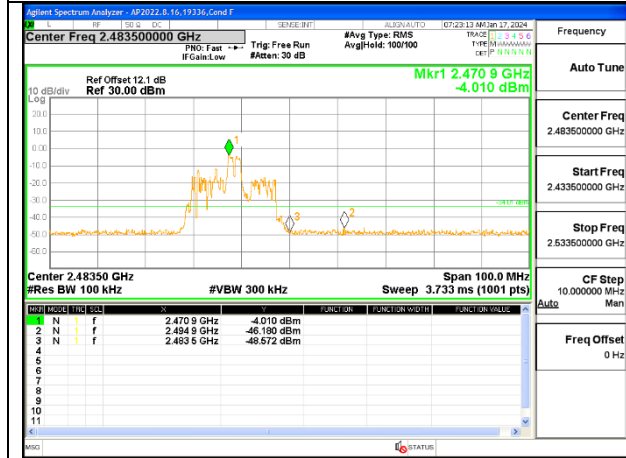
OUT-OF-BAND HIGH CHANNEL 11 ANT 4



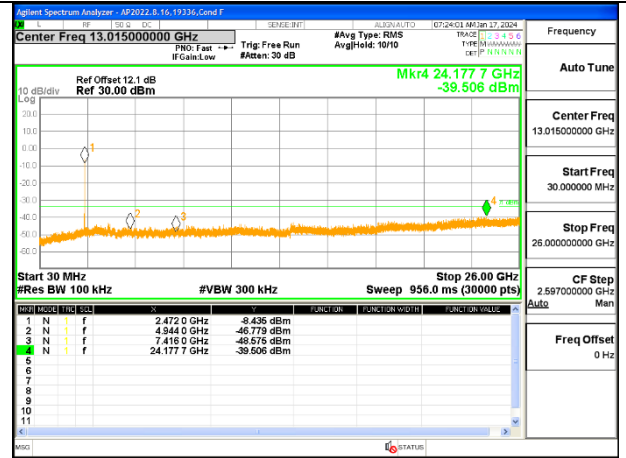
**HIGH CHANNEL 12 BANDEDGE ANT 4**



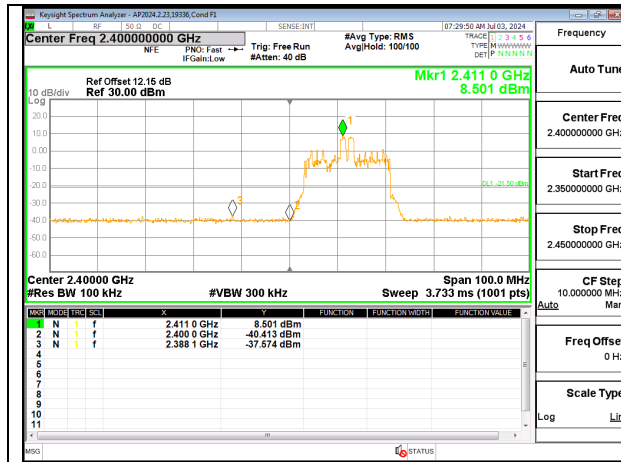
**OUT-OF-BAND HIGH CHANNEL 12 ANT 4**



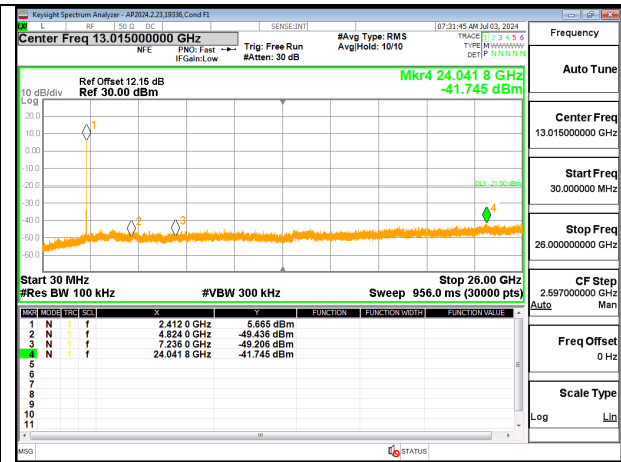
**HIGH CHANNEL 13 BANDEDGE ANT 4**



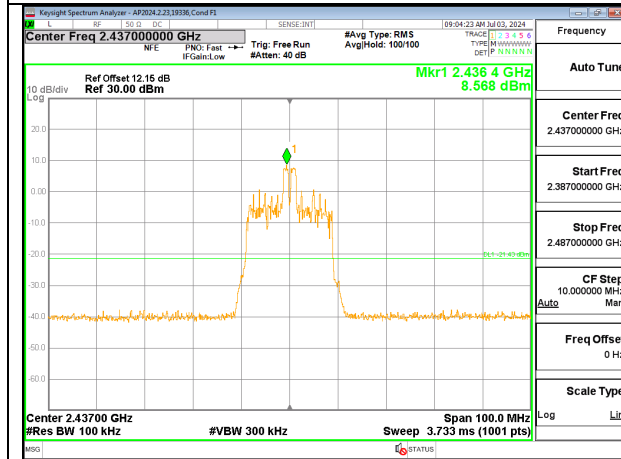
**OUT-OF-BAND HIGH CHANNEL 13 ANT 4**



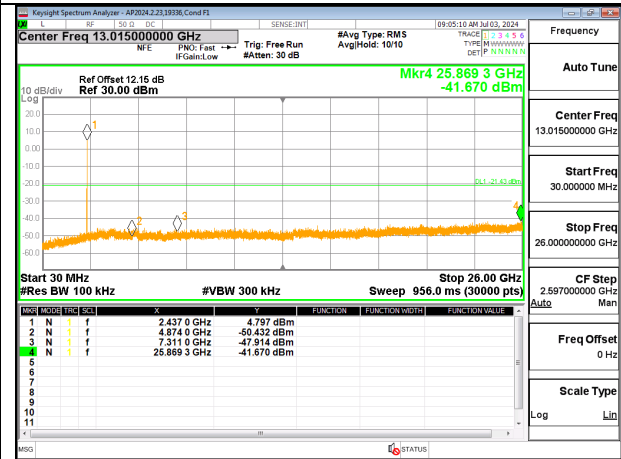
LOW CHANNEL 1 BANDEDGE ANT 3



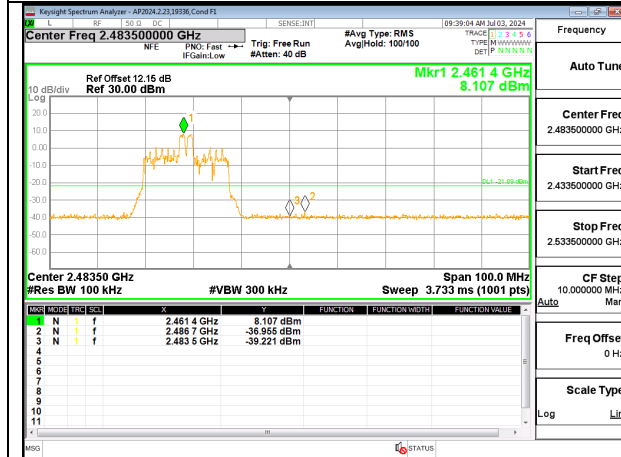
OUT-OF-BAND LOW CHANNEL 1 ANT 3



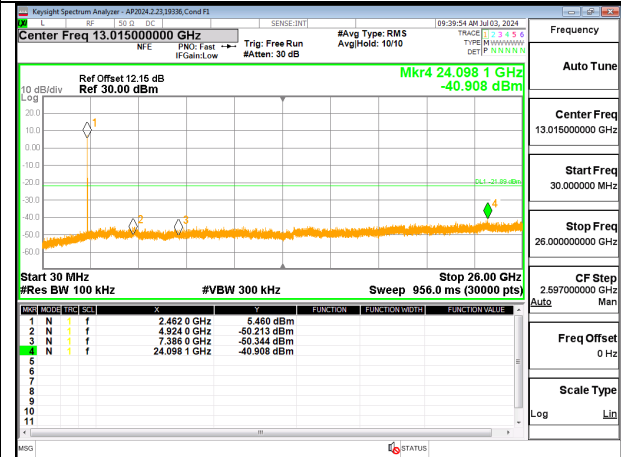
IN-BAND REFERENCE LEVEL ANT 3



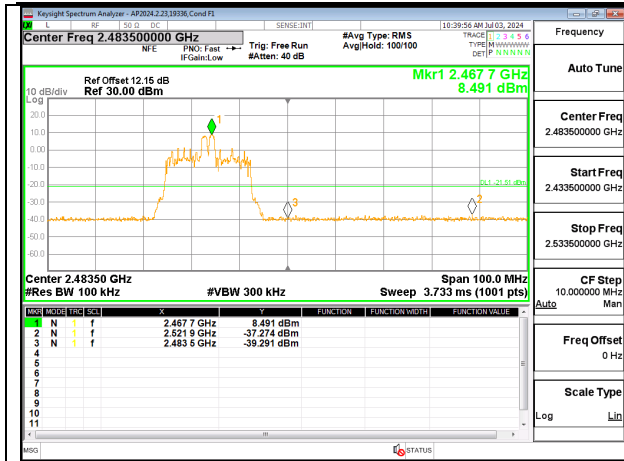
OUT-OF-BAND MID CHANNEL ANT 3



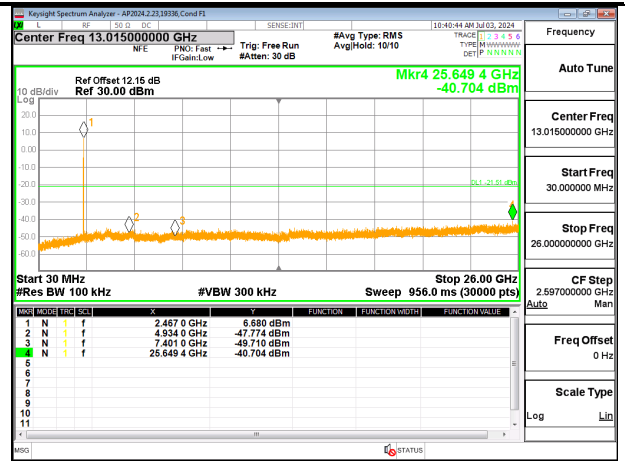
HIGH CHANNEL 11 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 11 ANT 3



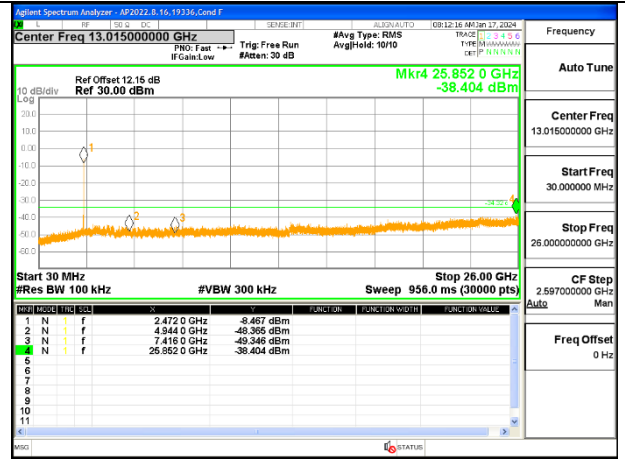
**HIGH CHANNEL 12 BANDEDGE ANT 3**



**OUT-OF-BAND HIGH CHANNEL 12 ANT 3**

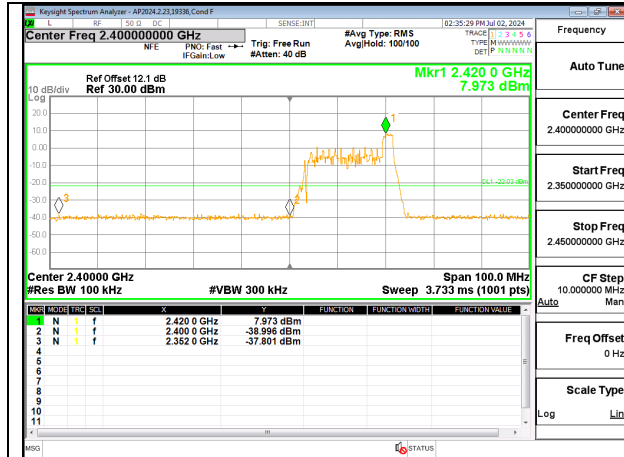


**HIGH CHANNEL 13 BANDEDGE ANT 3**

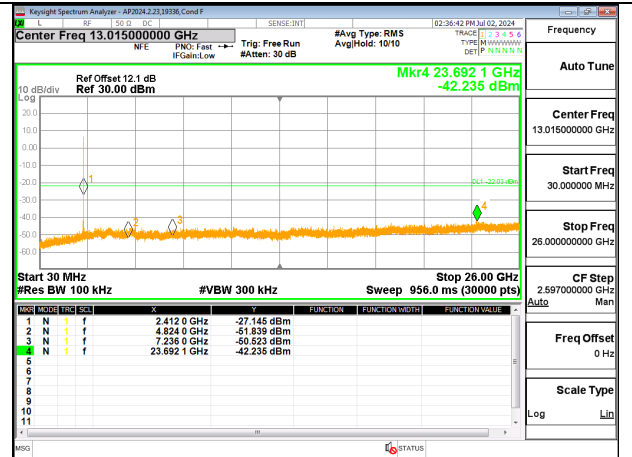


**OUT-OF-BAND HIGH CHANNEL 13 ANT 3**

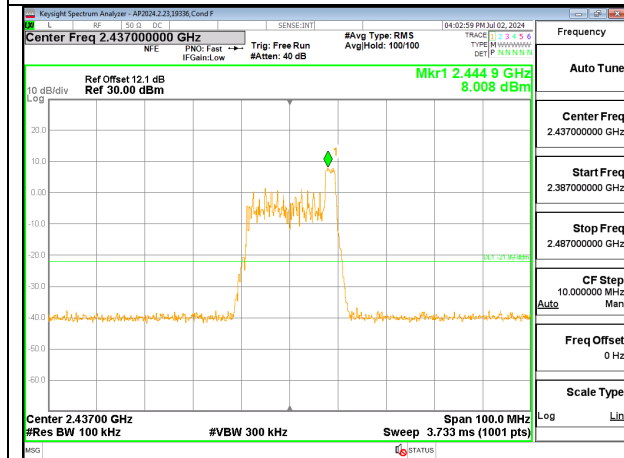
ANT 4 + ANT 3 2TX MODE: 26-Tones, RU Index 8



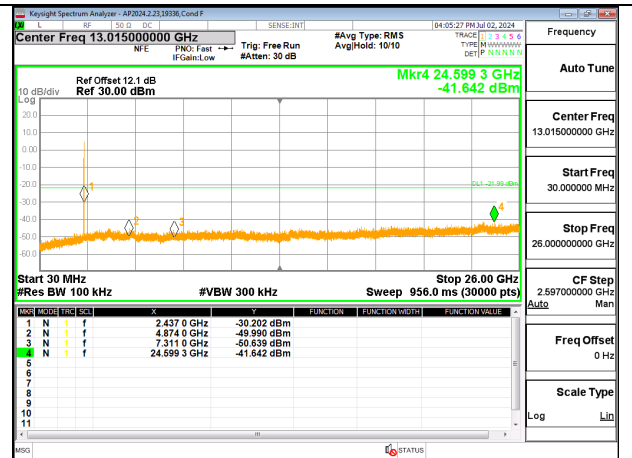
LOW CHANNEL 1 BANDEDGE ANT 4



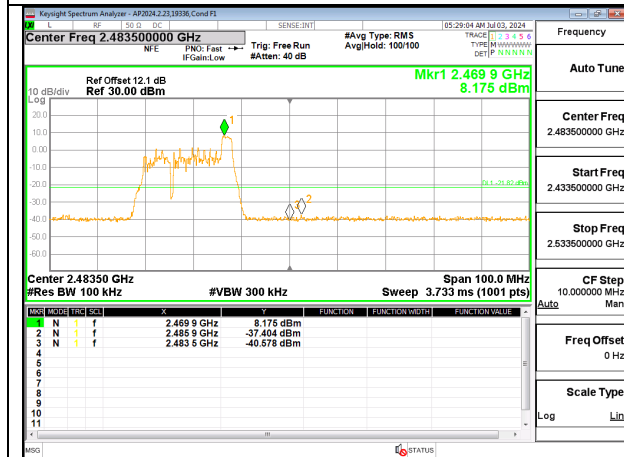
OUT-OF-BAND LOW CHANNEL 1 ANT 4



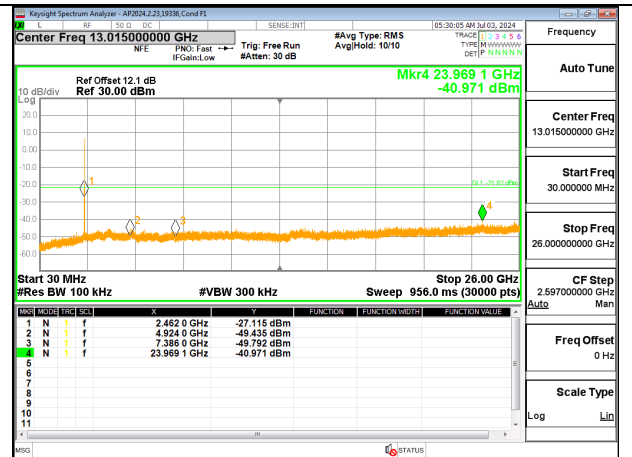
IN-BAND REFERENCE LEVEL ANT 4



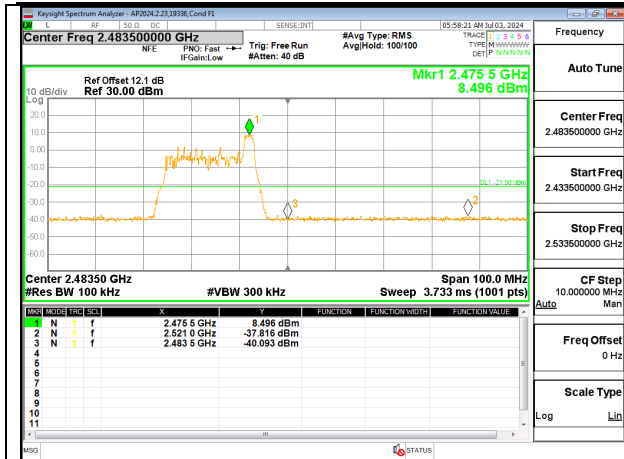
OUT-OF-BAND MID CHANNEL ANT 4



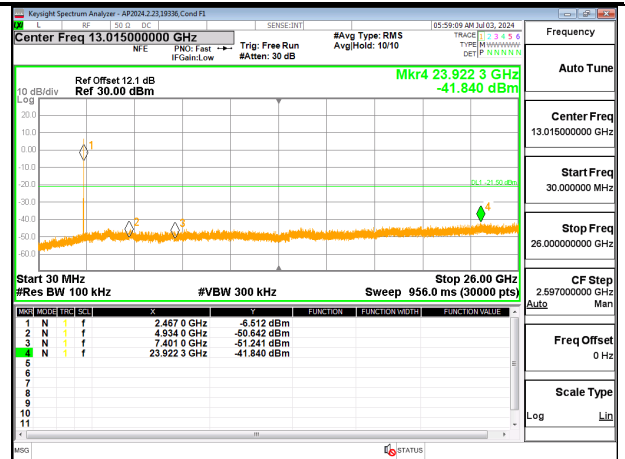
HIGH CHANNEL 11 BANDEDGE ANT 4



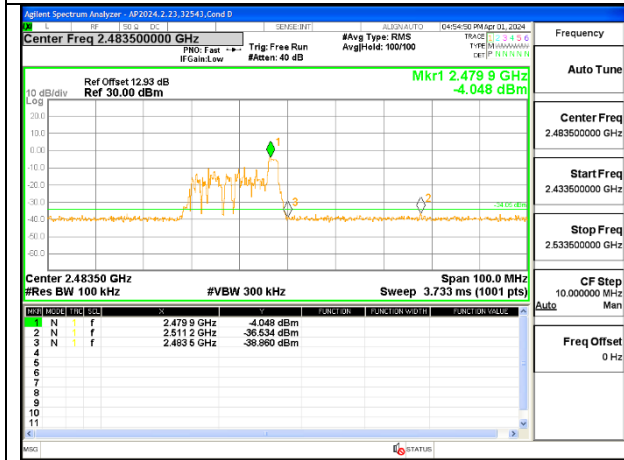
OUT-OF-BAND HIGH CHANNEL 11 ANT 4



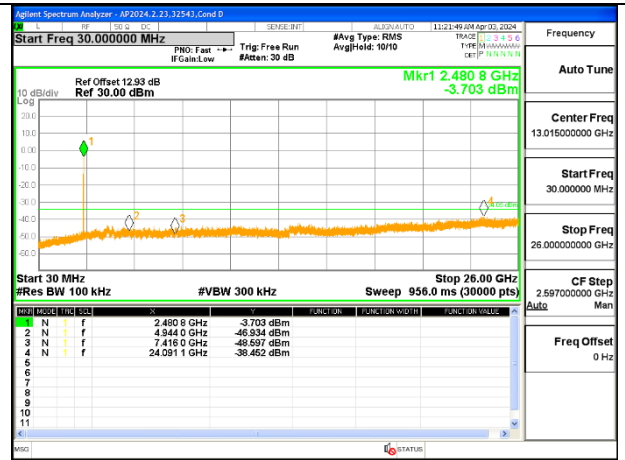
**HIGH CHANNEL 12 BANDEDGE ANT 4**



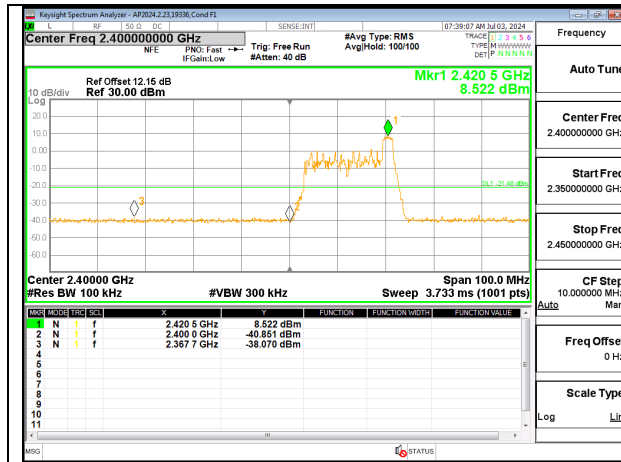
**OUT-OF-BAND HIGH CHANNEL 12 ANT 4**



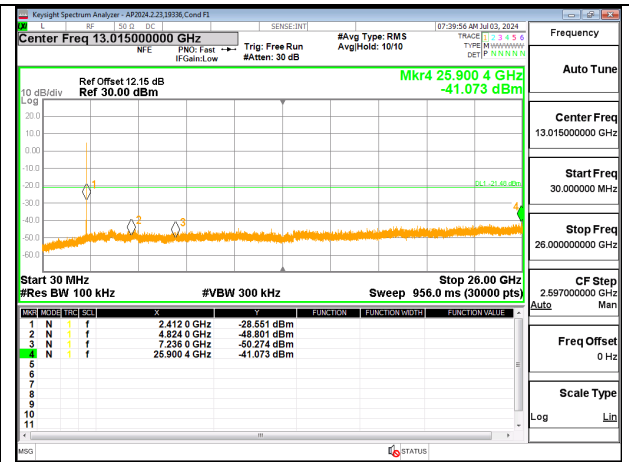
**HIGH CHANNEL 13 BANDEDGE ANT 4**



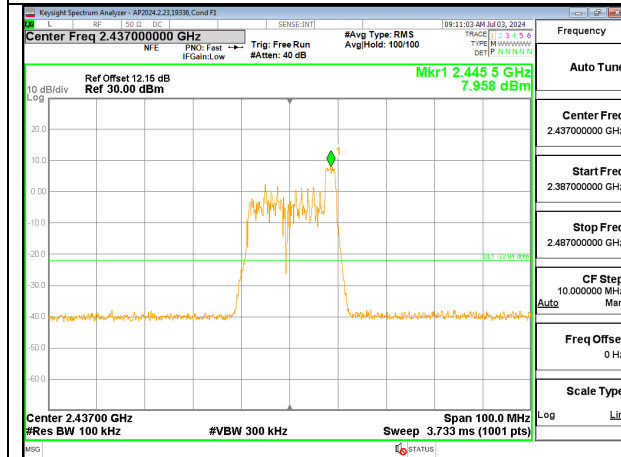
**OUT-OF-BAND HIGH CHANNEL 13 ANT 4**



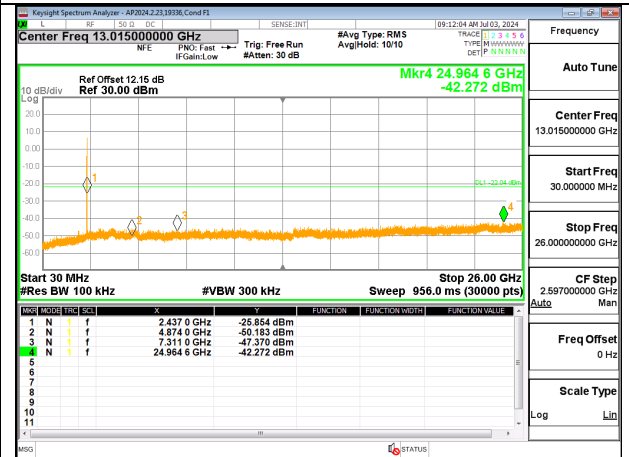
LOW CHANNEL 1 BANDEDGE ANT 3



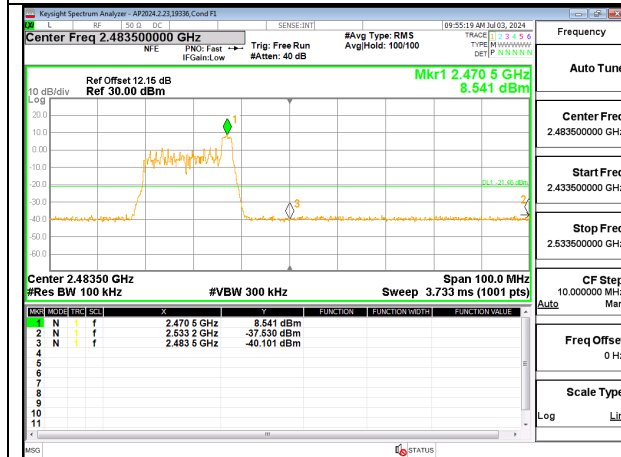
OUT-OF-BAND LOW CHANNEL 1 ANT 3



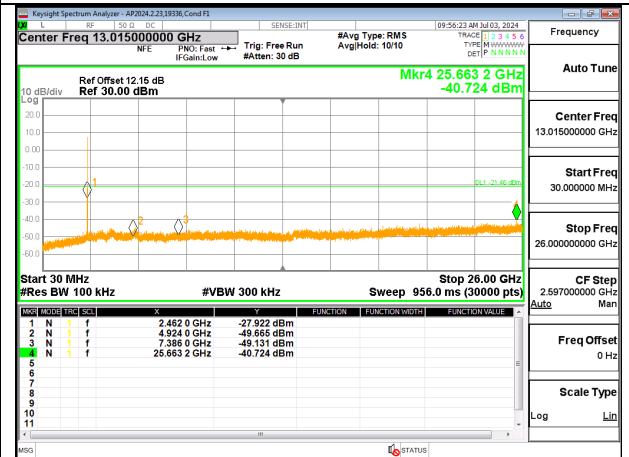
IN-BAND REFERENCE LEVEL ANT 3



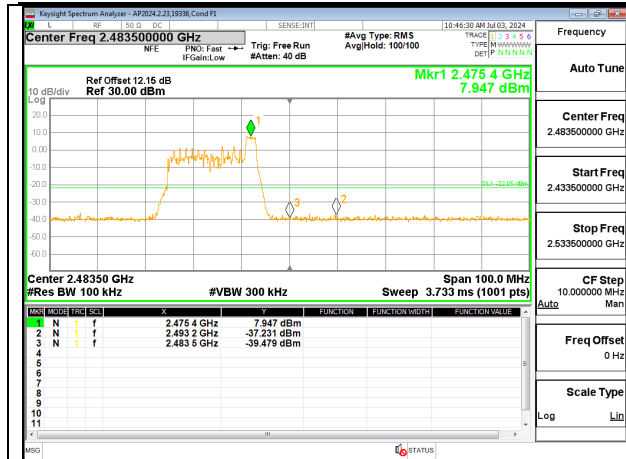
OUT-OF-BAND MID CHANNEL ANT 3



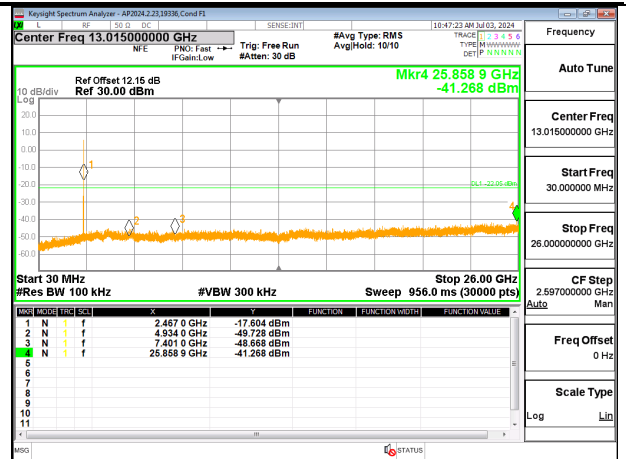
HIGH CHANNEL 11 BANDEDGE ANT 3



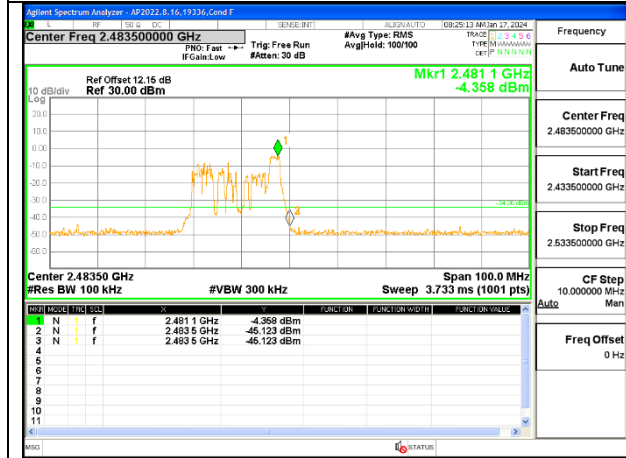
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



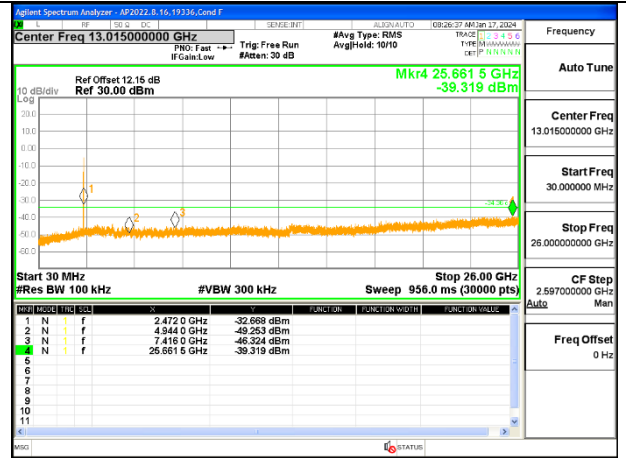
**HIGH CHANNEL 12 BANDEDGE ANT 3**



**OUT-OF-BAND HIGH CHANNEL 12 ANT 3**



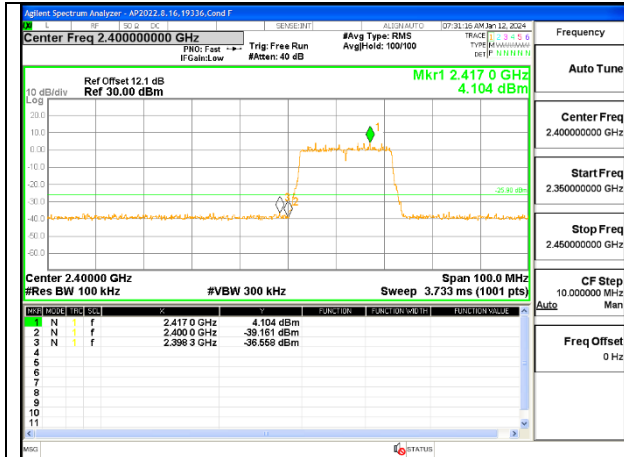
**HIGH CHANNEL 13 BANDEDGE ANT 3**



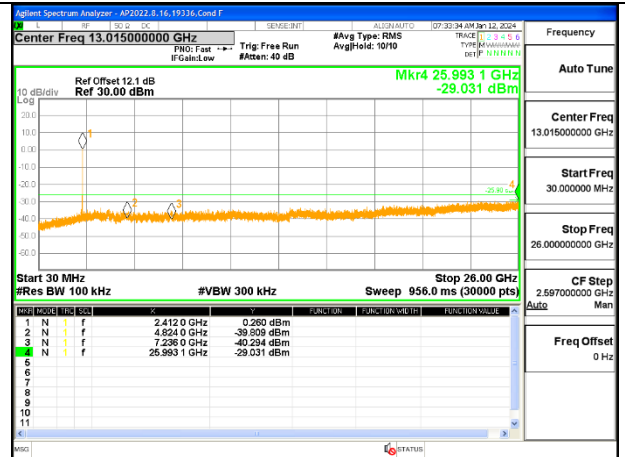
**OUT-OF-BAND HIGH CHANNEL 13 ANT 3**



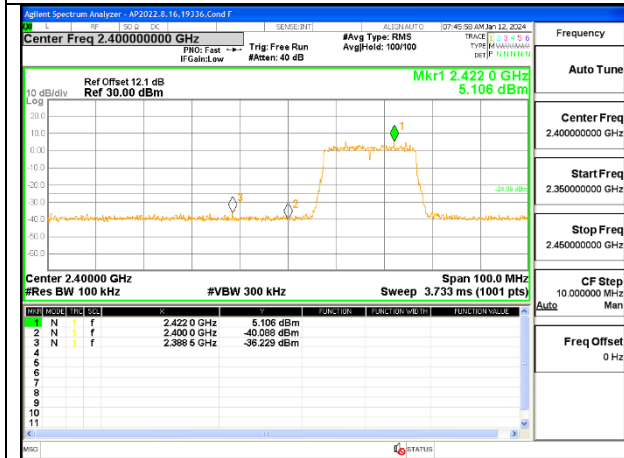
ANT 4 + ANT 3 2TX MODE: SU Mode



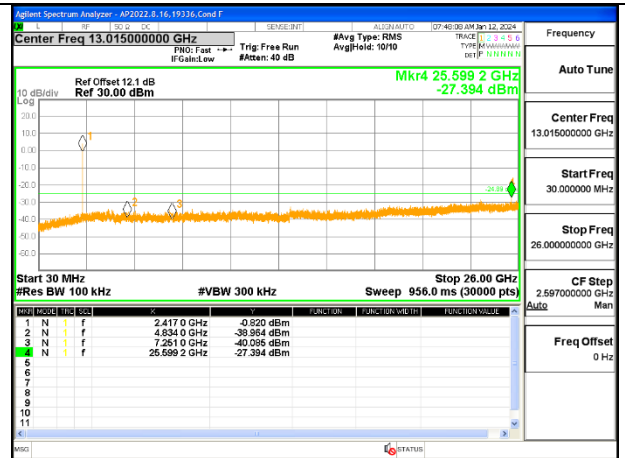
LOW CHANNEL 1 BANDEDGE ANT 4



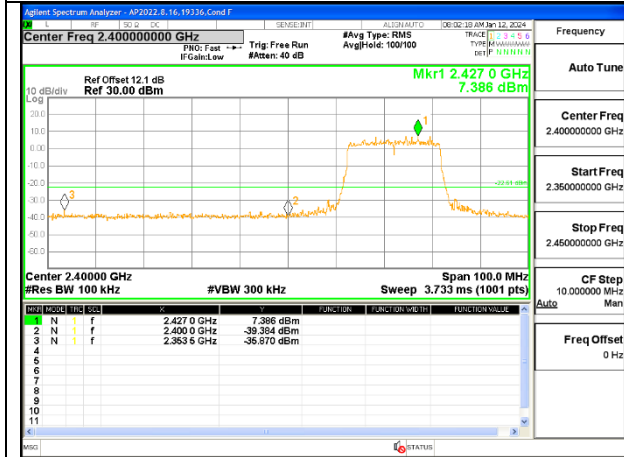
OUT-OF-BAND LOW CHANNEL 1 ANT 4



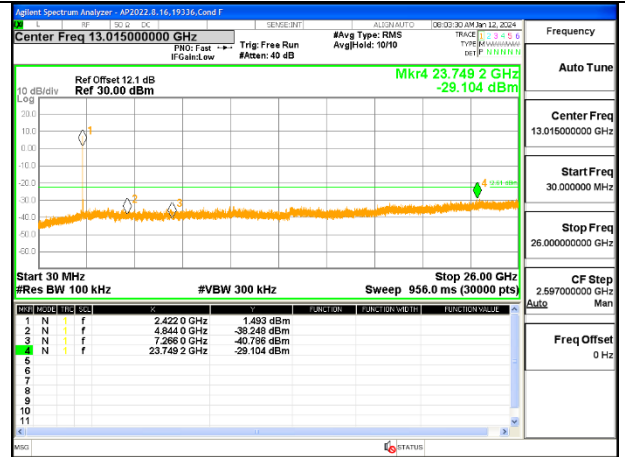
LOW CHANNEL 2 BANDEDGE ANT 4



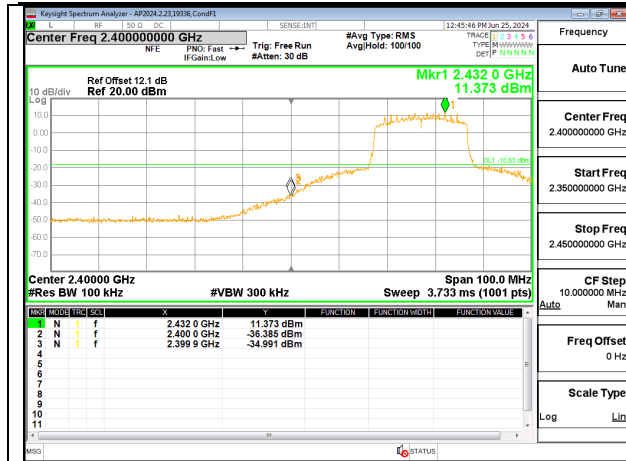
OUT-OF-BAND LOW CHANNEL 2 ANT 4



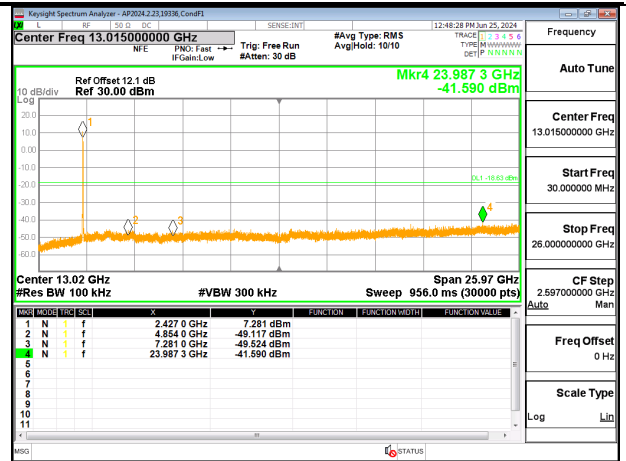
LOW CHANNEL 3 BANDEDGE ANT 4



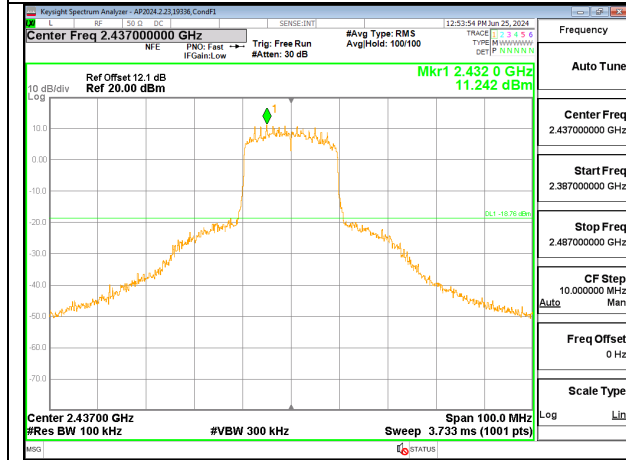
OUT-OF-BAND LOW CHANNEL 3 ANT 4



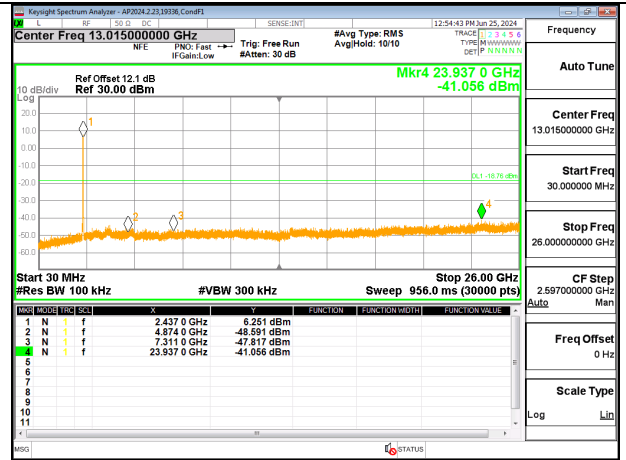
LOW CHANNEL 4 BANDEDGE ANT 4



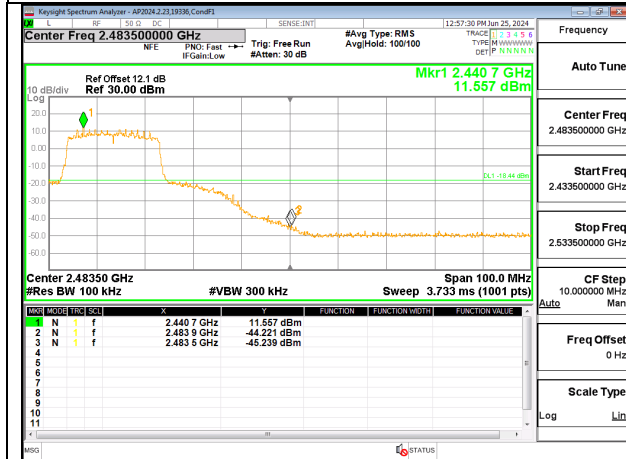
OUT-OF-BAND LOW CHANNEL 4 ANT 4



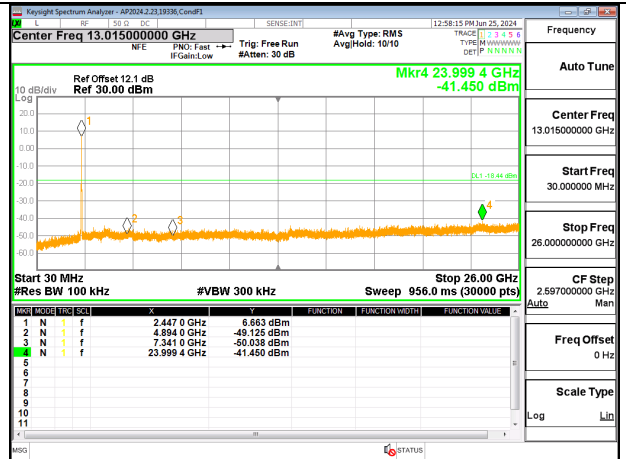
IN-BAND REFERENCE LEVEL ANT 4



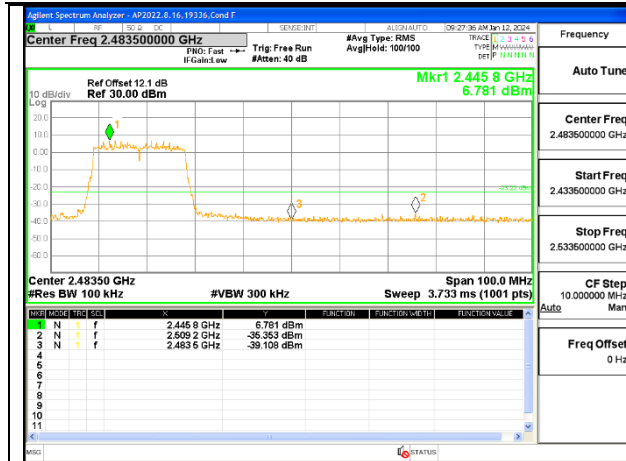
OUT-OF-BAND MID CHANNEL ANT 4



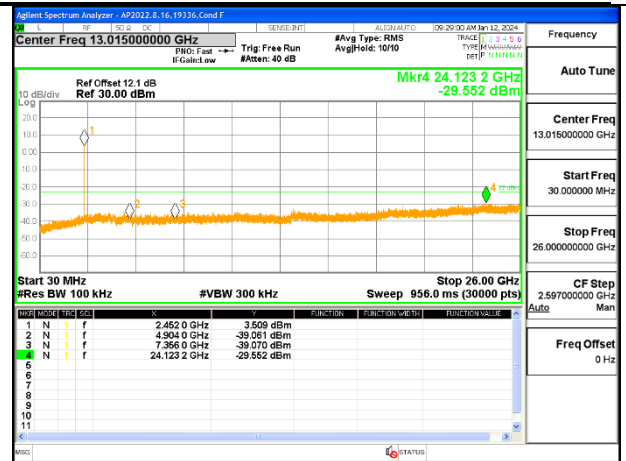
HIGH CHANNEL 8 BANDEDGE ANT 4



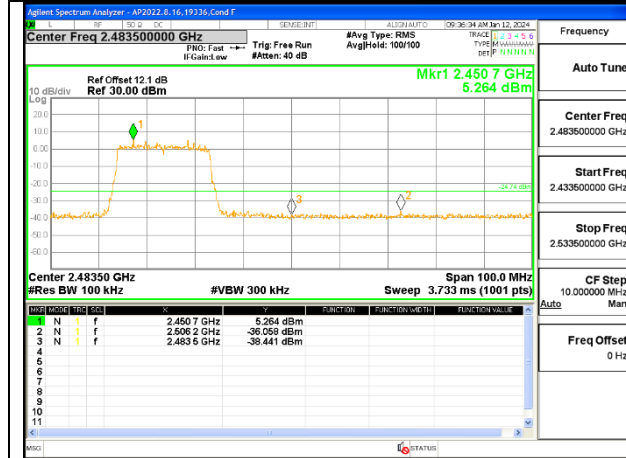
OUT-OF-BAND HIGH CHANNEL 8 ANT 4



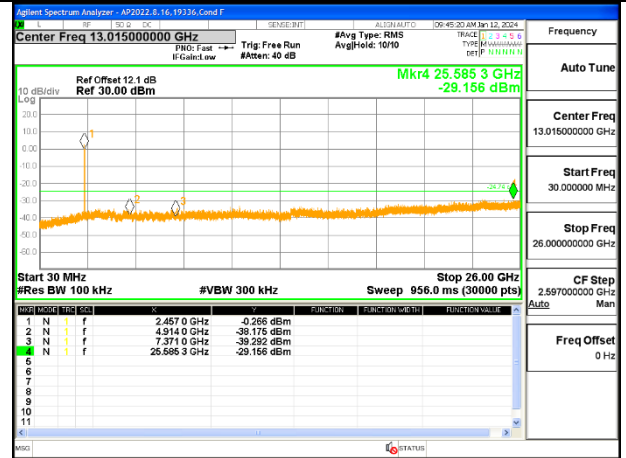
**HIGH CHANNEL 9 BANDEDGE ANT 4**



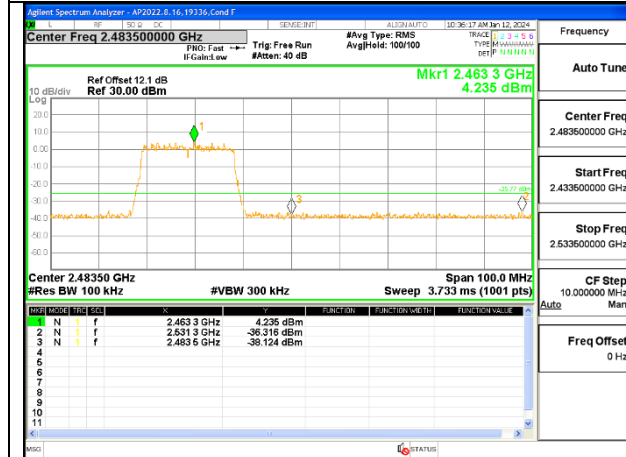
**OUT-OF-BAND HIGH CHANNEL 9 ANT 4**



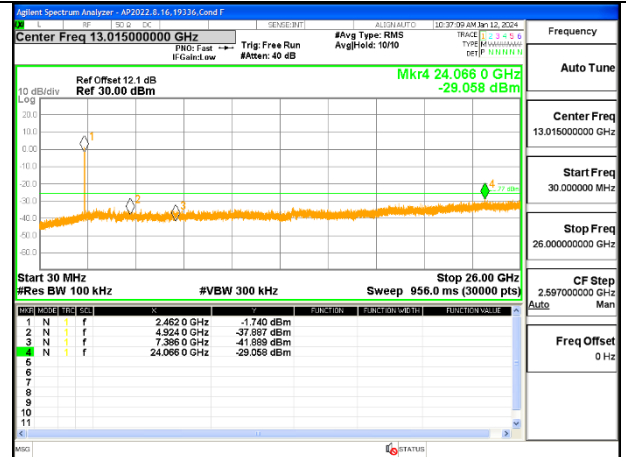
**HIGH CHANNEL 10 BANDEDGE ANT 4**



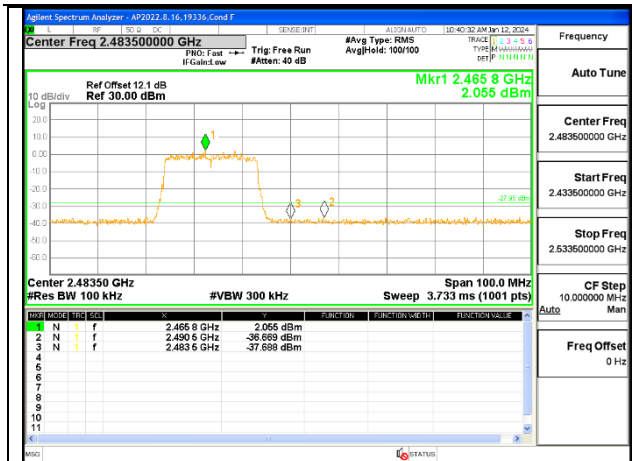
**OUT-OF-BAND HIGH CHANNEL 10 ANT 4**



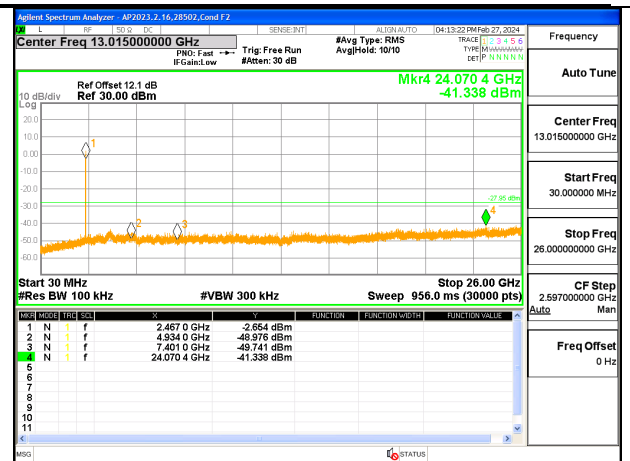
**HIGH CHANNEL 11 BANDEDGE ANT 4**



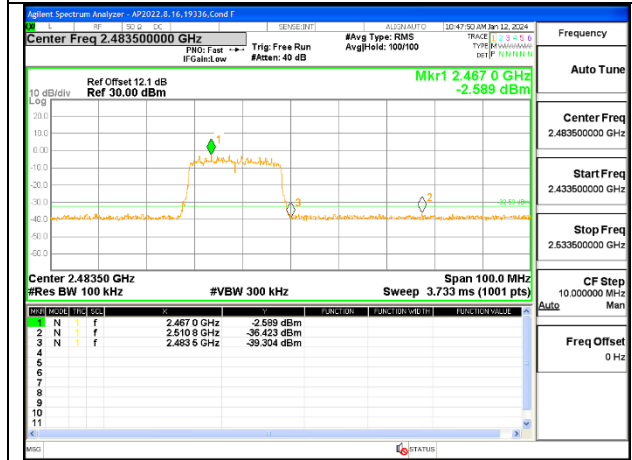
**OUT-OF-BAND HIGH CHANNEL 11 ANT 4**



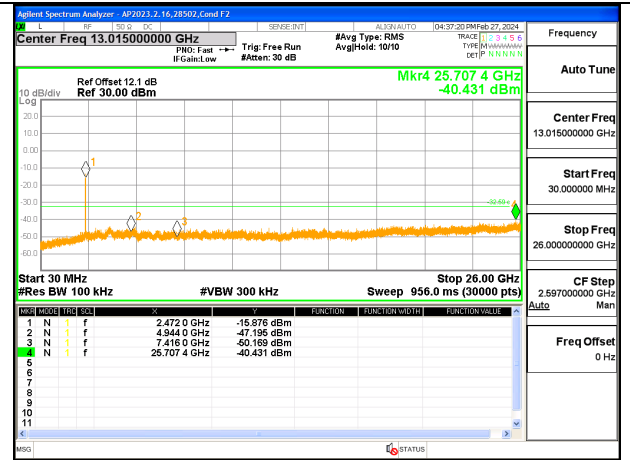
**HIGH CHANNEL 12 BANDEDGE ANT 4**



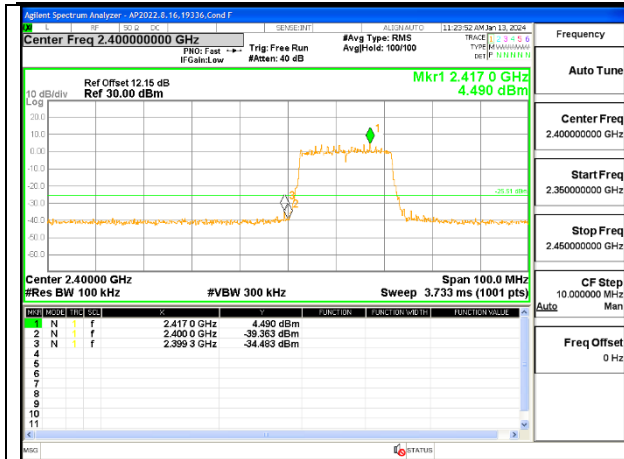
**OUT-OF-BAND HIGH CHANNEL 12 ANT 4**



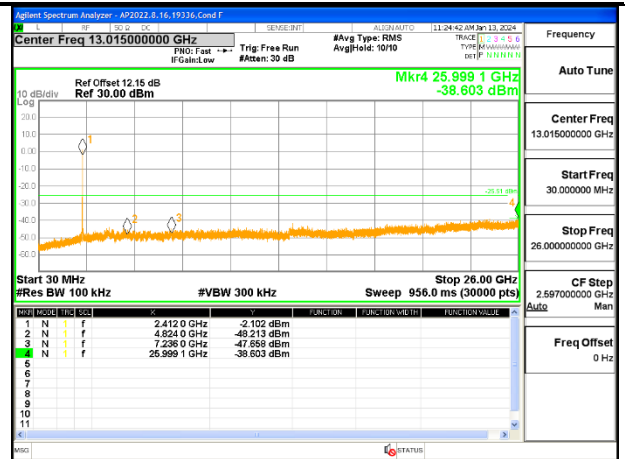
**HIGH CHANNEL 13 BANDEDGE ANT 4**



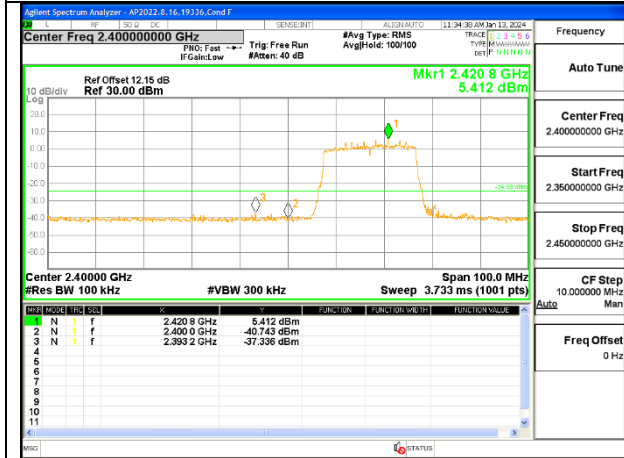
**OUT-OF-BAND HIGH CHANNEL 13 ANT 4**



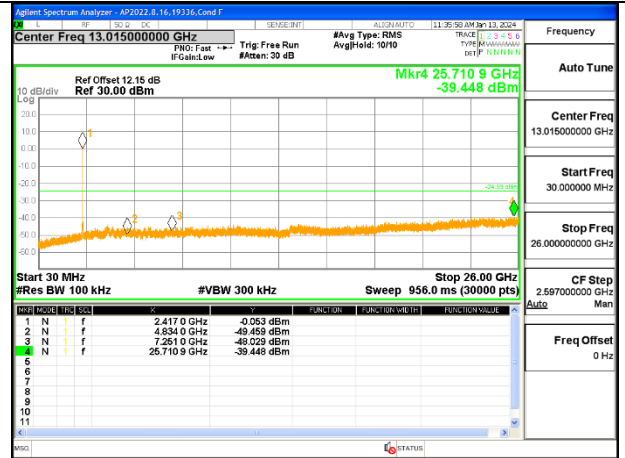
LOW CHANNEL 1 BANDEDGE ANT 3



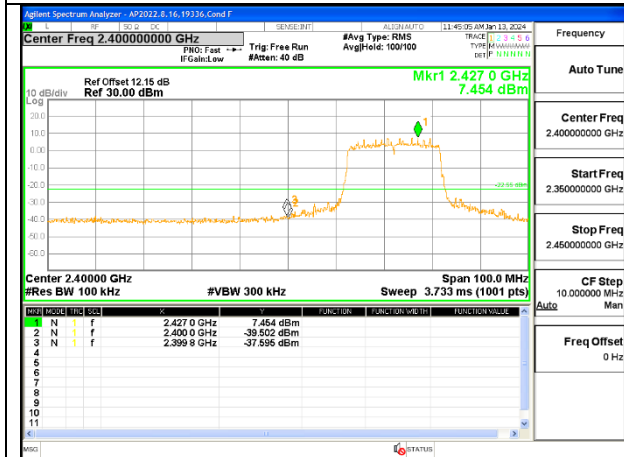
OUT-OF-BAND LOW CHANNEL 1 ANT 3



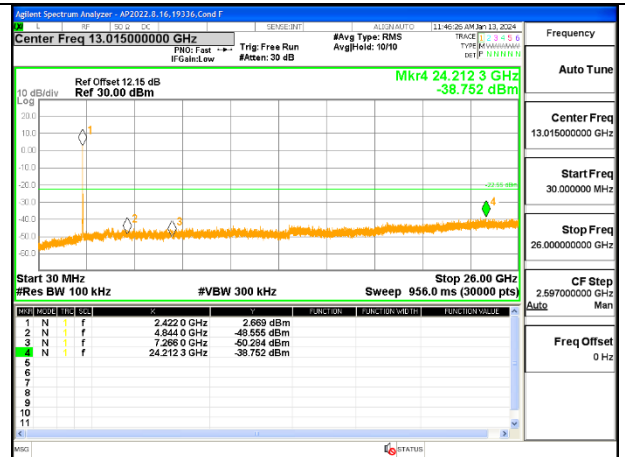
LOW CHANNEL 2 BANDEDGE ANT 3



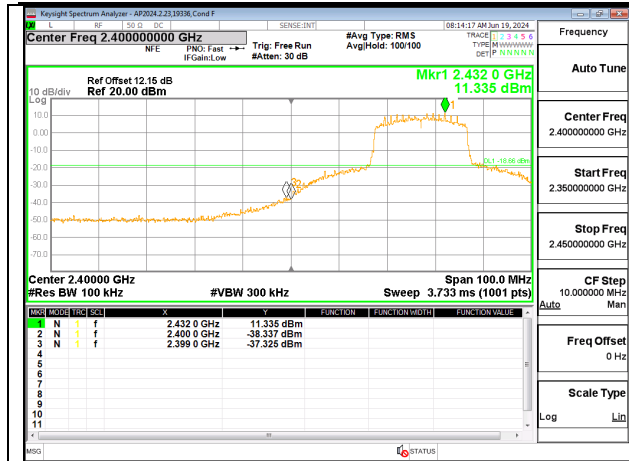
OUT-OF-BAND LOW CHANNEL 2 ANT 3



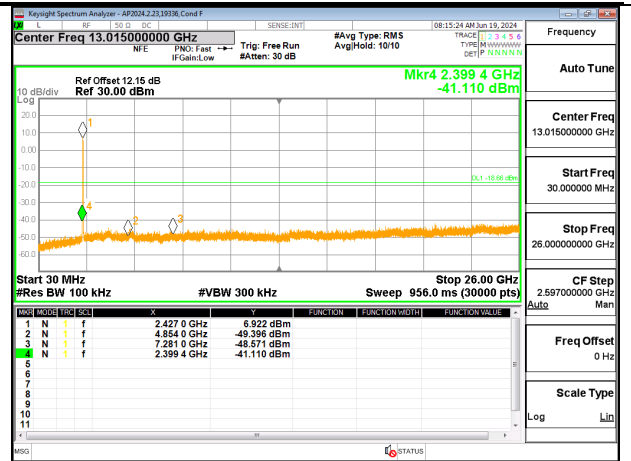
LOW CHANNEL 3 BANDEDGE ANT 3



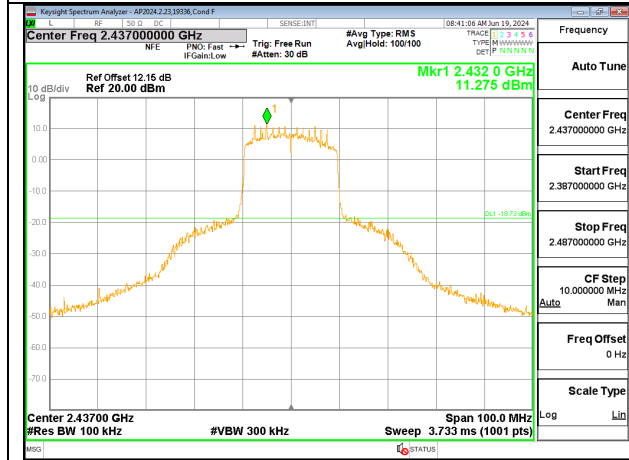
OUT-OF-BAND LOW CHANNEL 3 ANT 3



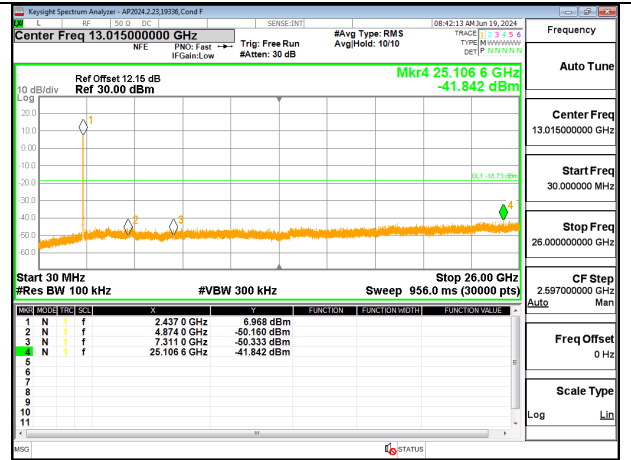
LOW CHANNEL 4 BANDEDGE ANT 3



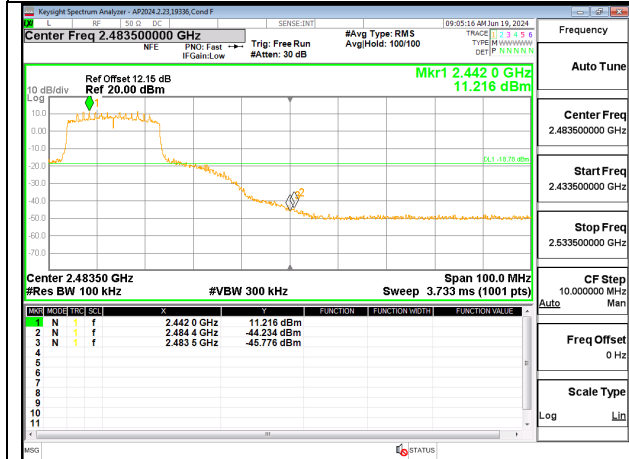
OUT-OF-BAND LOW CHANNEL 4 ANT 3



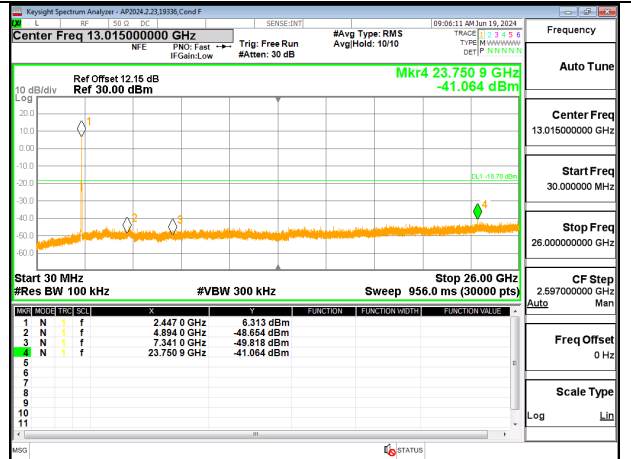
IN-BAND REFERENCE LEVEL ANT 3



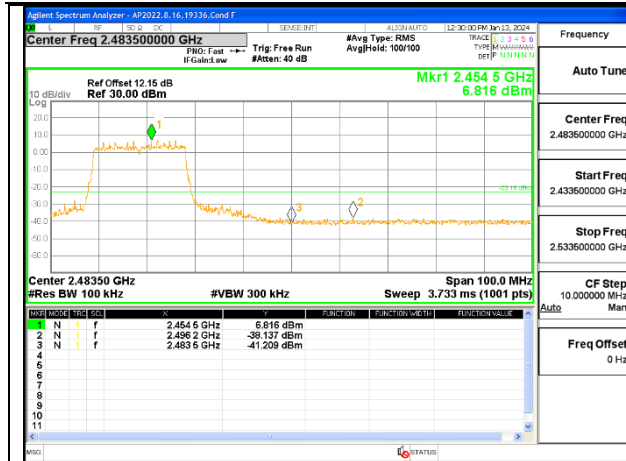
OUT-OF-BAND MID CHANNEL ANT 3



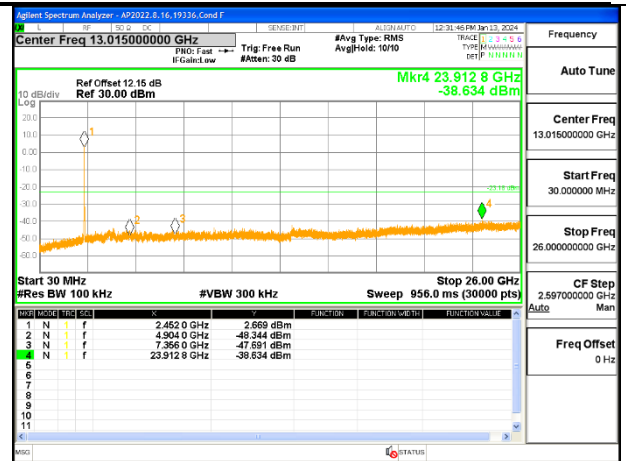
HIGH CHANNEL 8 BANDEDGE ANT 3



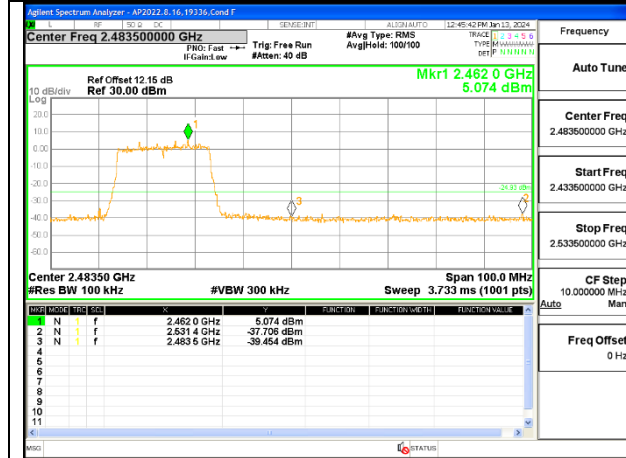
OUT-OF-BAND HIGH CHANNEL 8 ANT 3



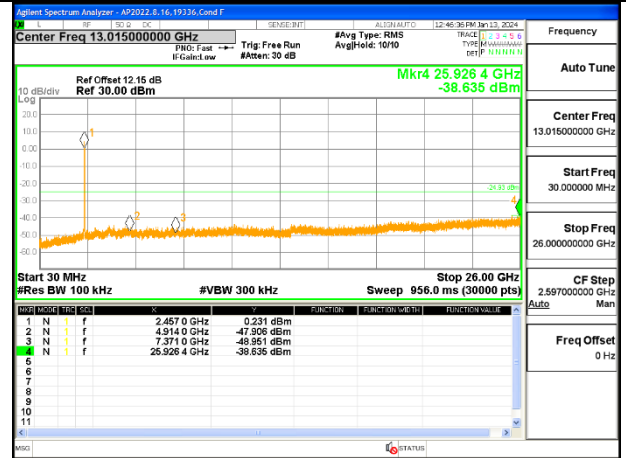
**HIGH CHANNEL 9 BANDEDGE ANT 3**



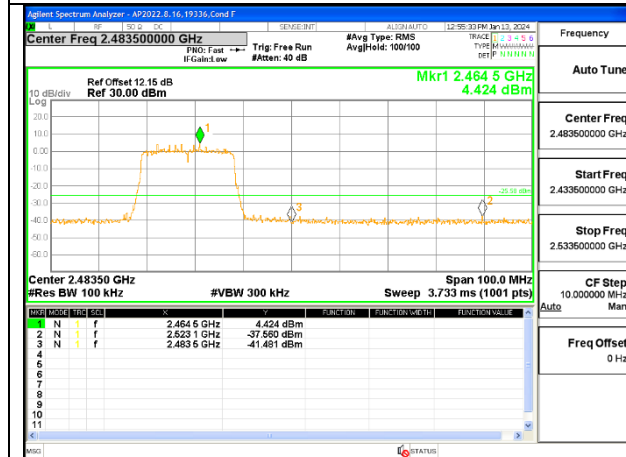
**OUT-OF-BAND HIGH CHANNEL 9 ANT 3**



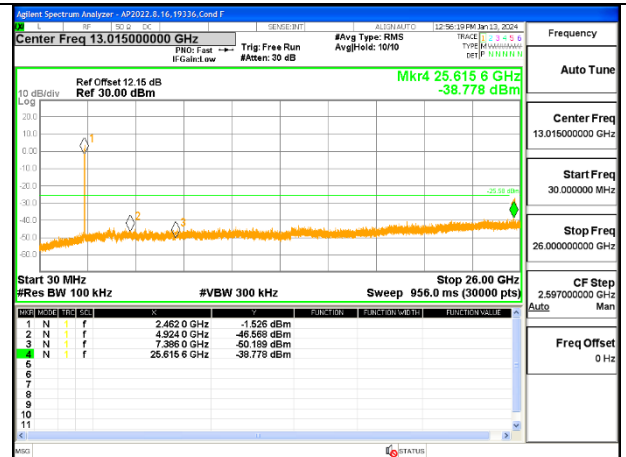
**HIGH CHANNEL 10 BANDEDGE ANT 3**



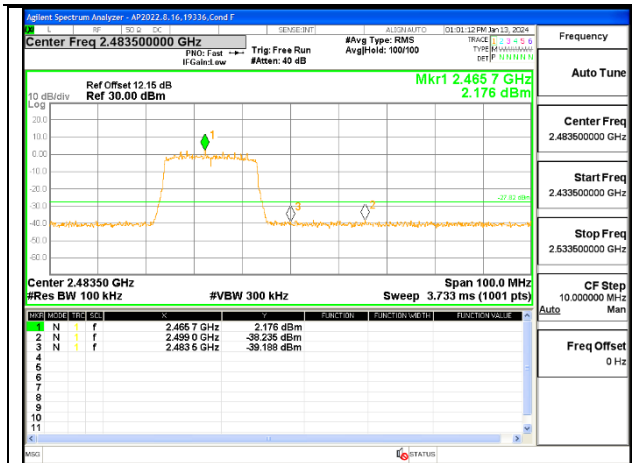
**OUT-OF-BAND HIGH CHANNEL 10 ANT 3**



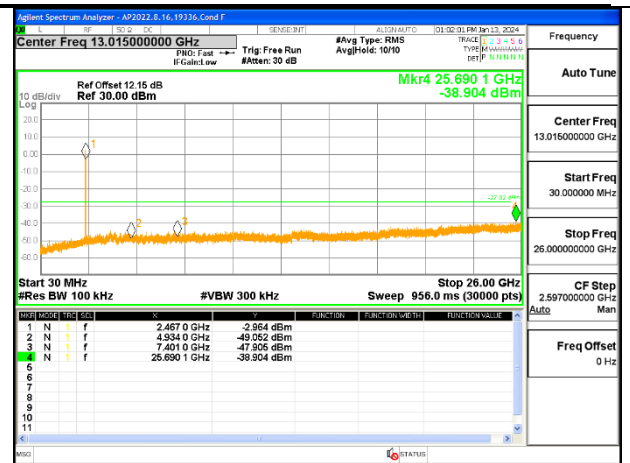
**HIGH CHANNEL 11 BANDEDGE ANT 3**



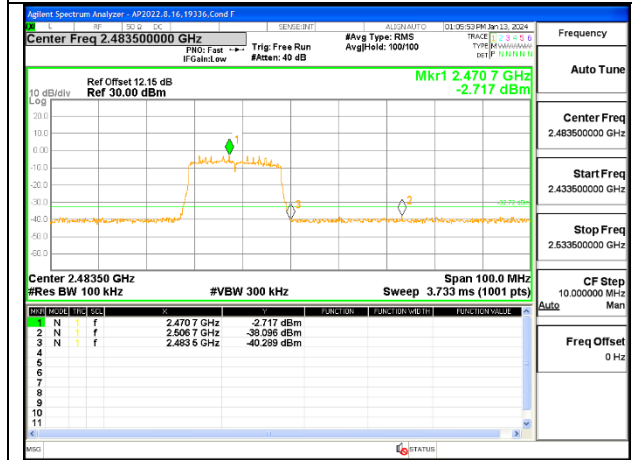
**OUT-OF-BAND HIGH CHANNEL 11 ANT 3**



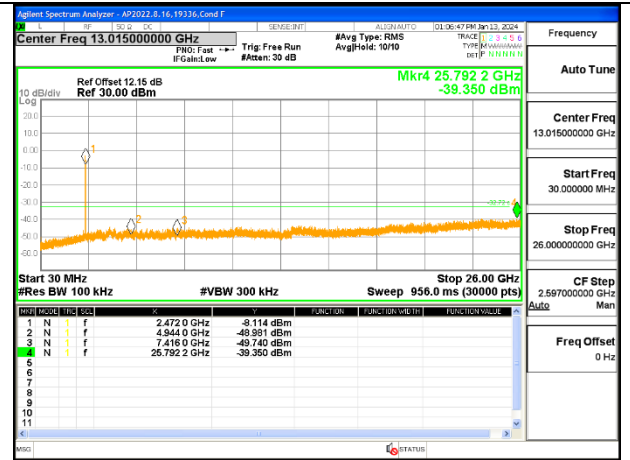
**HIGH CHANNEL 12 BANDEDGE ANT 3**



**OUT-OF-BAND HIGH CHANNEL 12 ANT 3**



**HIGH CHANNEL 13 BANDEDGE ANT 3**



**OUT-OF-BAND HIGH CHANNEL 13 ANT 3**



## 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 and as applicable for average measurements.

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

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

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to  $Y-51.5 = Z$  dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it must 15.209(a) limit.

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

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

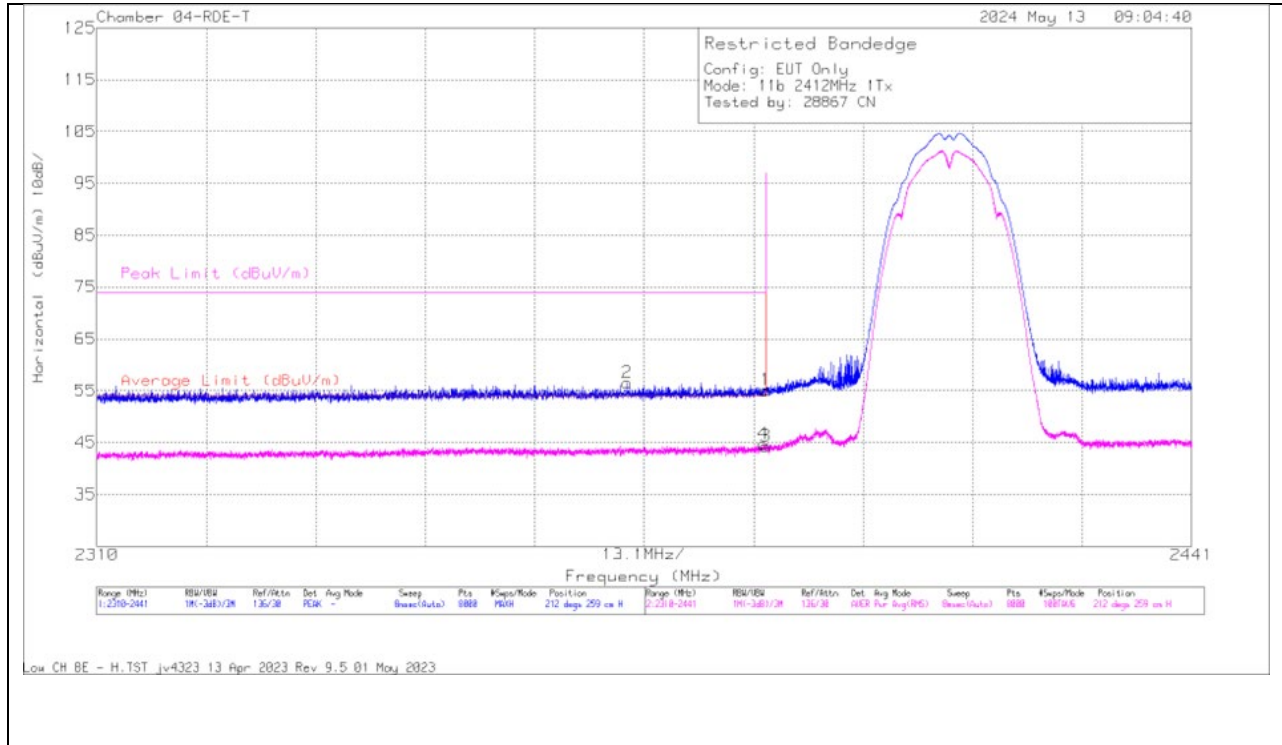
**RESULTS**

### 10.1. TRANSMITTER ABOVE 1 GHz

#### 10.1.1. 802.11b Mode 1TX ANT 4 IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, CH 1)

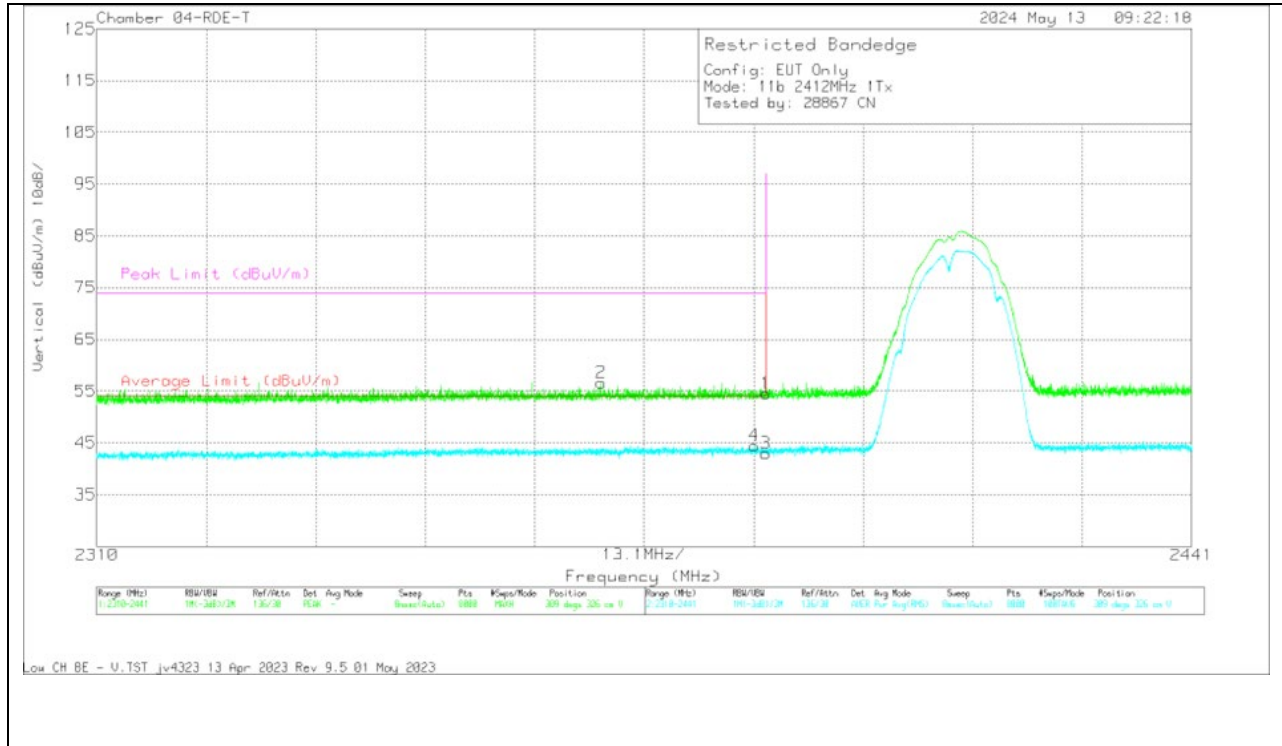
#### HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	60.93	Pk	33.3	0	-39.05	55.18	-	-	74	-18.82	212	259	H
2	* 2373.461	62.37	Pk	33.2	0	-39.03	56.54	-	-	74	-17.46	212	259	H
3	* 2390	50.07	RMS	33.3	0	-39.05	44.32	54	-9.68	-	-	212	259	H
4	* 2389.723	50.43	RMS	33.3	0	-39.06	44.67	54	-9.33	-	-	212	259	H

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

**VERTICAL RESULT**

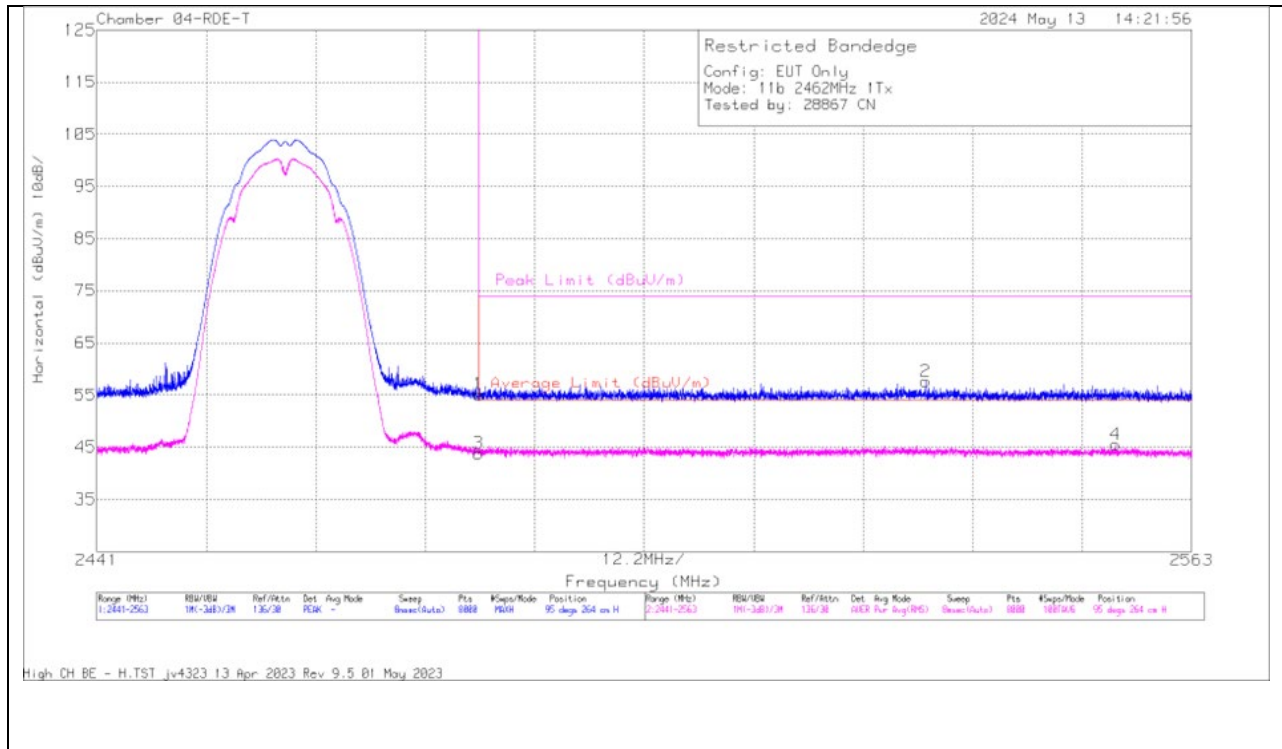


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	60.28	Pk	33.3	0	-39.05	54.53	-	-	74	-19.47	309	326	V
2	* 2370.349	62.63	Pk	33.1	0	-39.04	56.69	-	-	74	-17.31	309	326	V
3	* 2390	48.73	RMS	33.3	0	-39.05	42.98	54	-11.02	-	-	309	326	V
4	* 2388.675	50.28	RMS	33.3	0	-39.08	44.5	54	-9.5	-	-	309	326	V

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

**BANDEDGE (HIGH CHANNEL, CH 11)**

**HORIZONTAL RESULT**



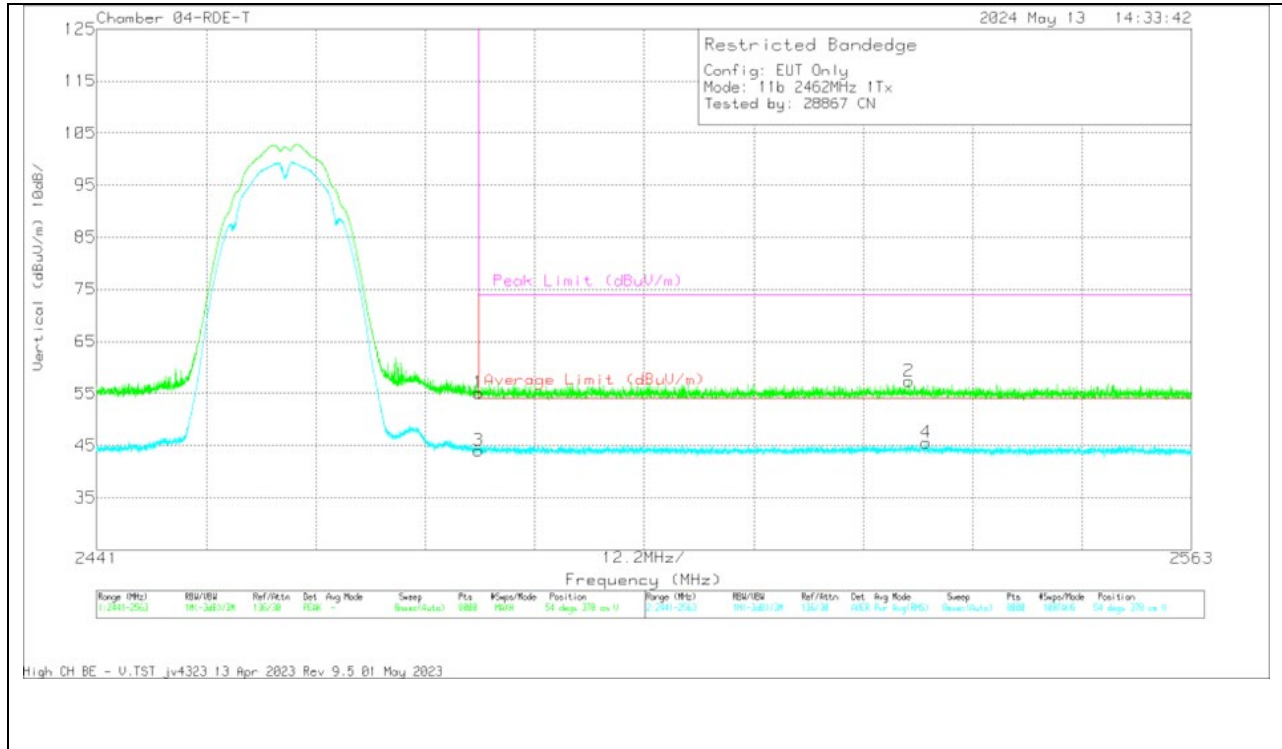
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF (dBm)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	60.6	Pk	33.4	0	-38.87	55.13	-	-	74	-18.87	95	264	H
3	* 2483.5	49.32	RMS	33.4	0	-38.87	43.85	54	-10.15	-	-	95	264	H
2	2533.336	62.91	Pk	33.2	0	-38.51	57.6	-	-	74	-16.4	95	264	H
4	2554.49	50.75	RMS	33.1	0	-38.41	45.44	54	-8.56	-	-	95	264	H

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

Pk - Peak detector

RMS - RMS detection

**VERTICAL RESULT**

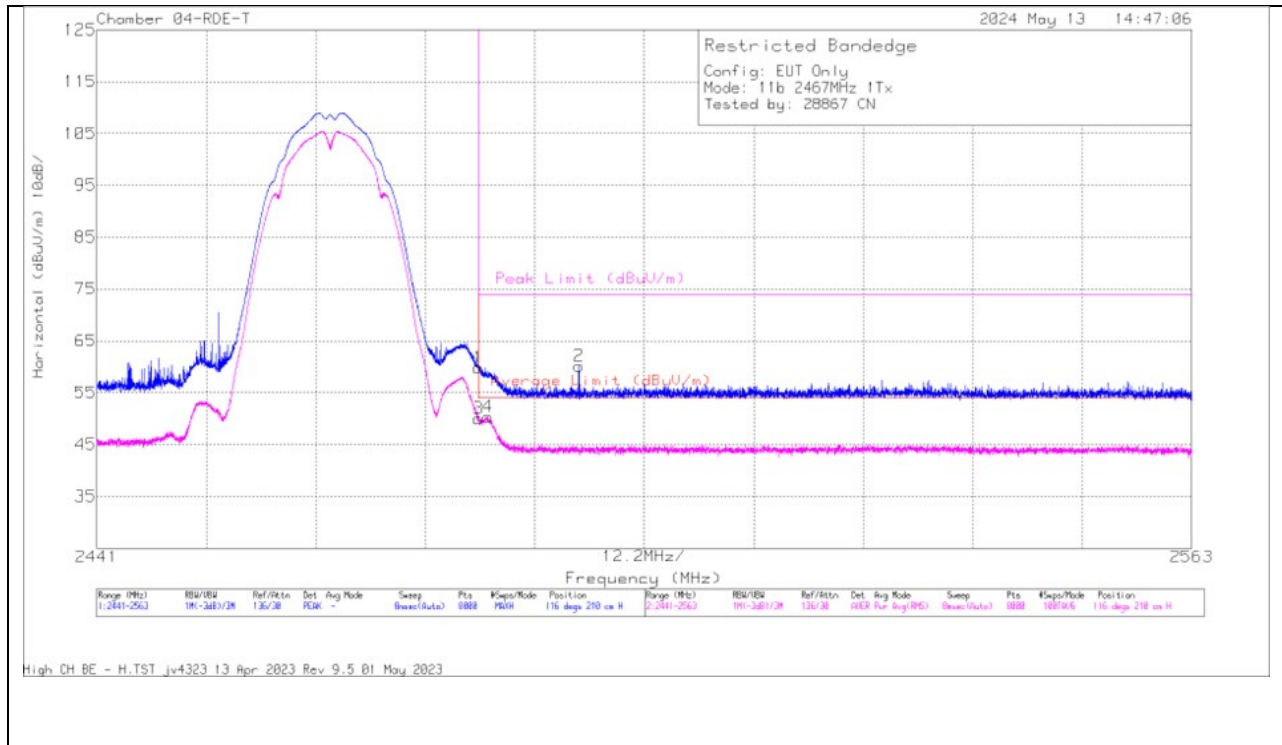


Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	80430 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	60.58	Pk	33.4	0	-38.87	55.11	-	-	74	-18.89	54	378	V
3	* 2483.5	49.59	RMS	33.4	0	-38.87	44.12	54	-9.88	-	-	54	378	V
2	2531.475	62.58	Pk	33.2	0	-38.36	57.42	-	-	74	-16.58	54	378	V
4	2533.458	50.9	RMS	33.2	0	-38.52	45.58	54	-8.42	-	-	54	378	V

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

**BANDEDGE (HIGH CHANNEL, CH 12)**

**HORIZONTAL RESULT**



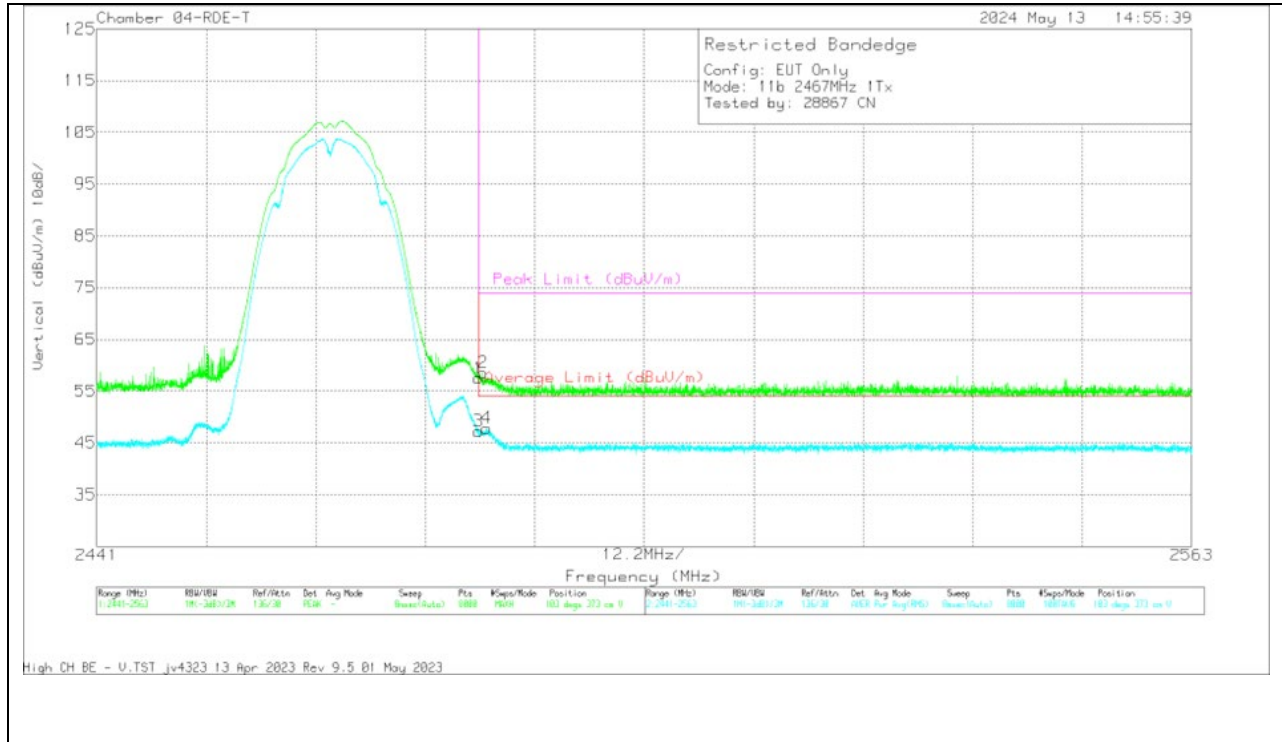
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	65.22	PK	33.4	0	-38.87	59.75	-	-	74	-14.25	116	210	H
2	* 2494.718	65.6	PK	33.4	0	-38.81	60.19	-	-	74	-13.81	116	210	H
3	* 2483.5	55.47	RMS	33.4	0	-38.87	50	54	-4	-	-	116	210	H
4	* 2484.605	55.83	RMS	33.4	0	-38.83	50.4	54	-3.6	-	-	116	210	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL RESULT**



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	62.93	Pk	33.4	0	-38.87	57.46	-	-	74	-16.54	103	373	V
2	* 2484.056	63.98	Pk	33.4	0	-38.89	58.49	-	-	74	-15.51	103	373	V
3	* 2483.5	52.66	RMS	33.4	0	-38.87	47.19	54	-6.81	-	-	103	373	V
4	* 2484.422	53.26	RMS	33.4	0	-38.85	47.81	54	-6.19	-	-	103	373	V

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

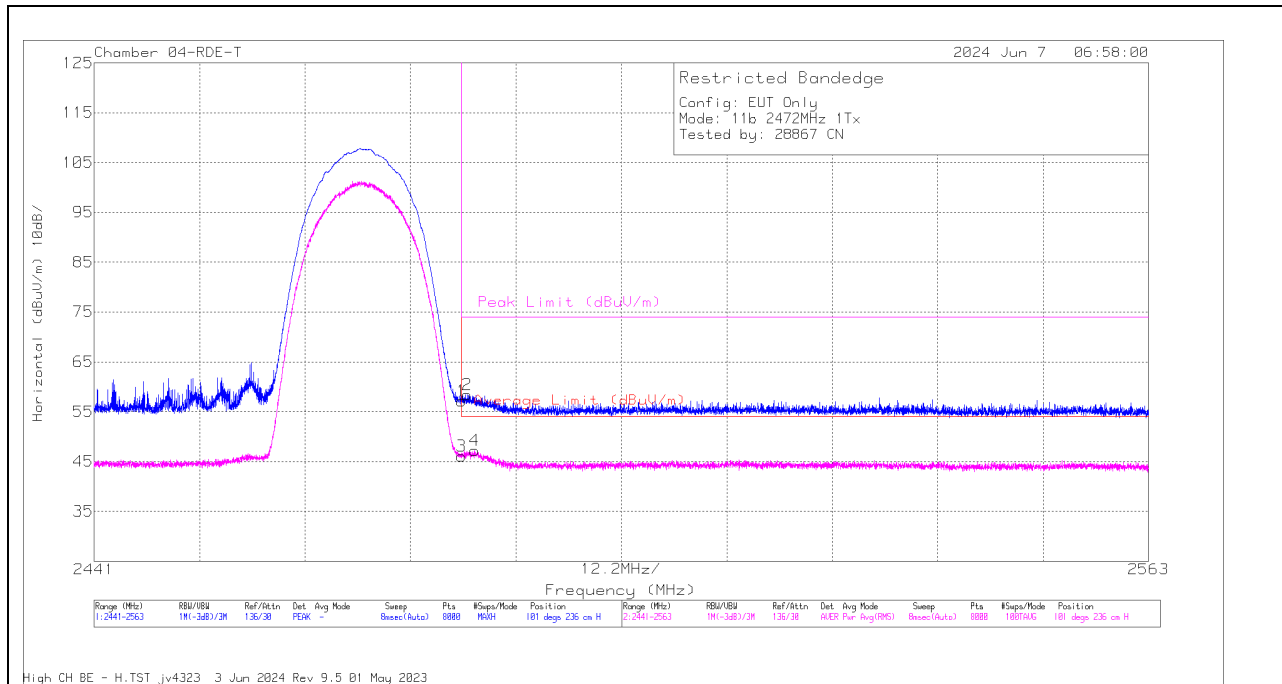
Pk - Peak detector

RMS - RMS detection



**BANDEDGE (HIGH CHANNEL, CH 13)**

**HORIZONTAL RESULT**



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 3m ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	62.63	Pk	33.4	0	-38.87	57.16	-	-	74	-16.84	101	236	H
2	* 2484.163	63.88	PK	33.4	0	-38.88	58.4	-	-	74	-15.6	101	236	H
3	* 2483.5	51.58	RMS	33.4	0	-38.87	46.11	54	-7.89	-	-	101	236	H
4	* 2485.002	52.63	RMS	33.4	0	-38.79	47.24	54	-6.76	-	-	101	236	H

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