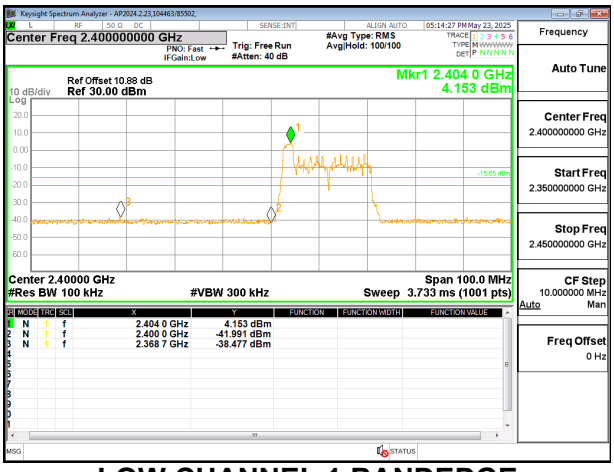
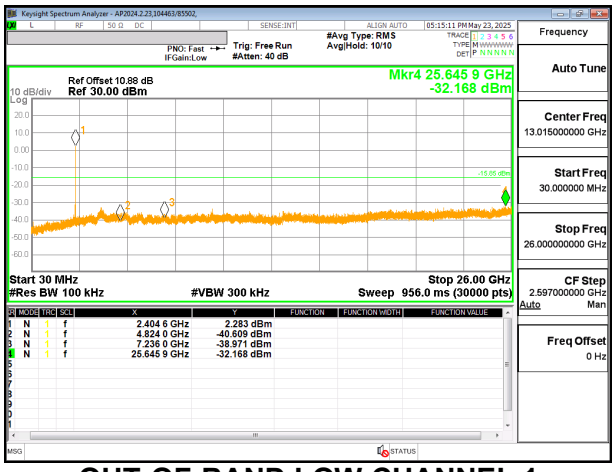
8.7.1. 802.11ax HE20 26T MODE

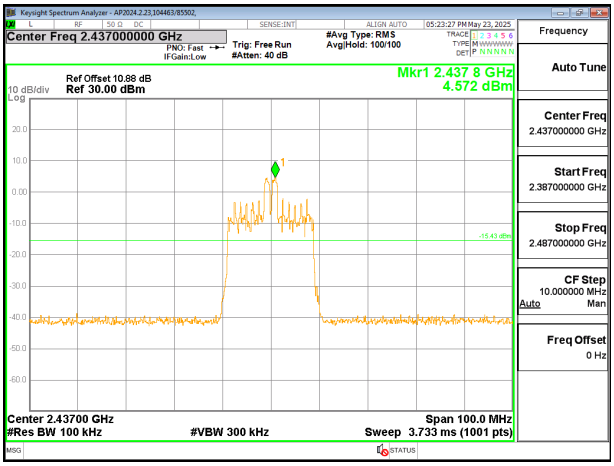
1TX Antenna 1 MODE



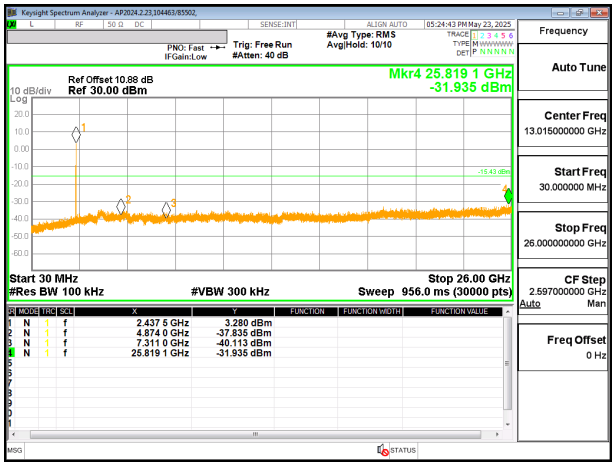
LOW CHANNEL 1 BANDEDGE



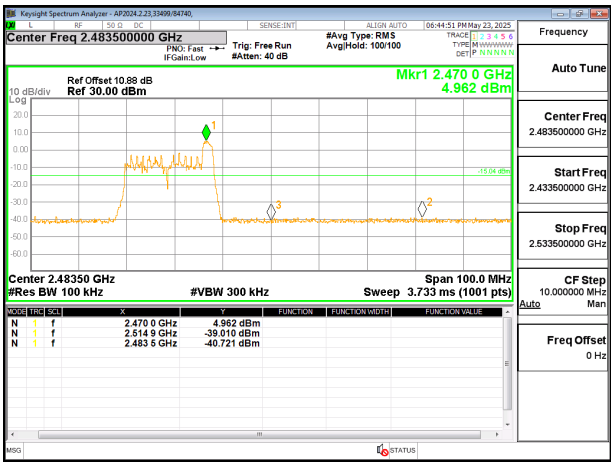
OUT-OF-BAND LOW CHANNEL 1



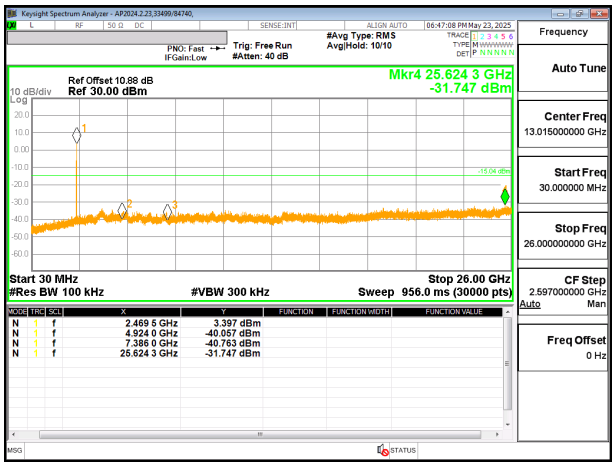
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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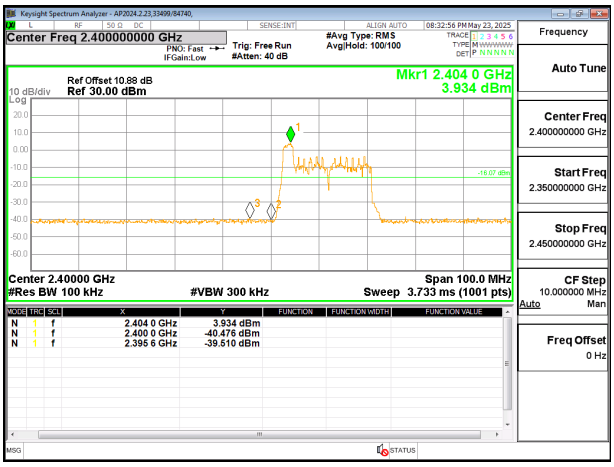
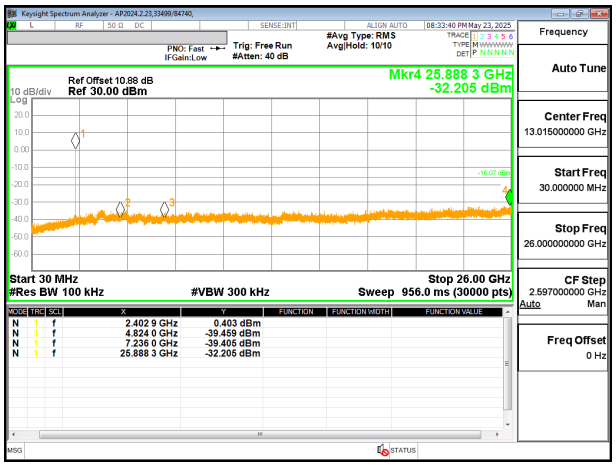
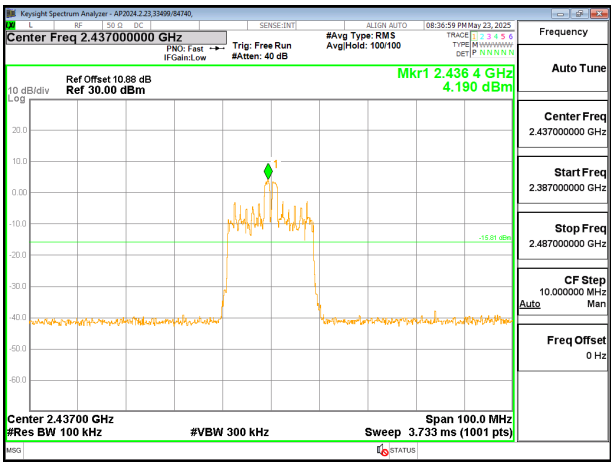
1TX Antenna 2 MODE



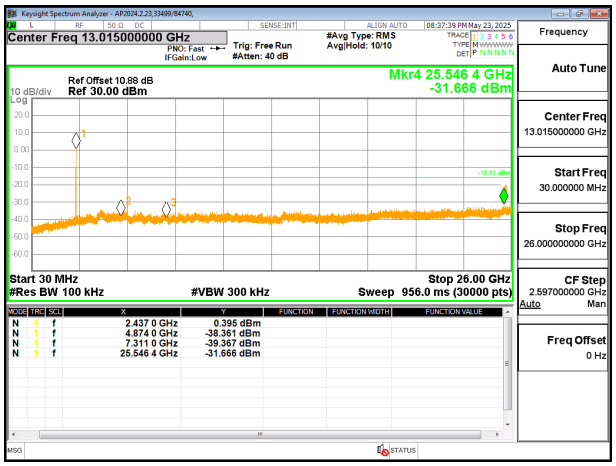
LOW CHANNEL 1 BANDEDGE



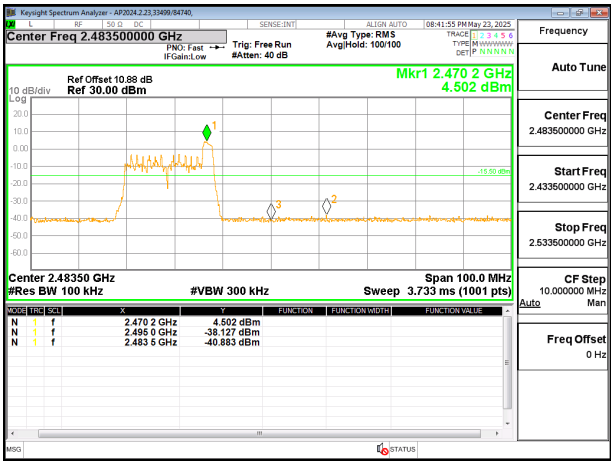
OUT-OF-BAND LOW CHANNEL 1



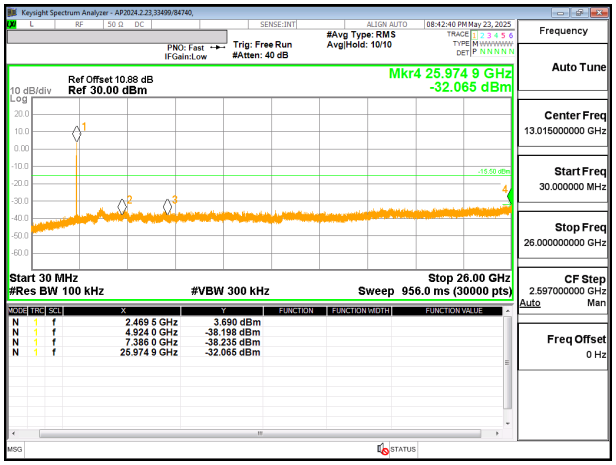
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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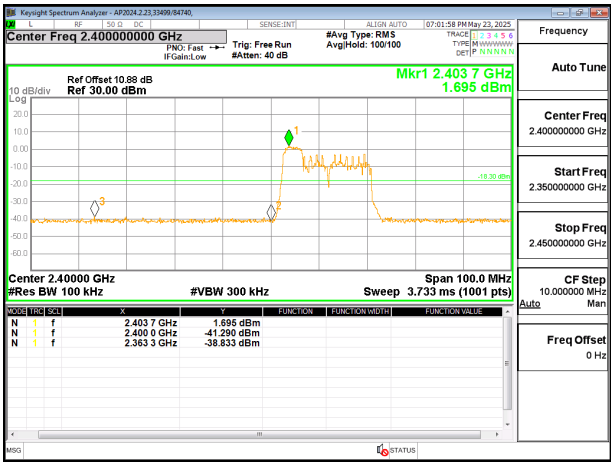
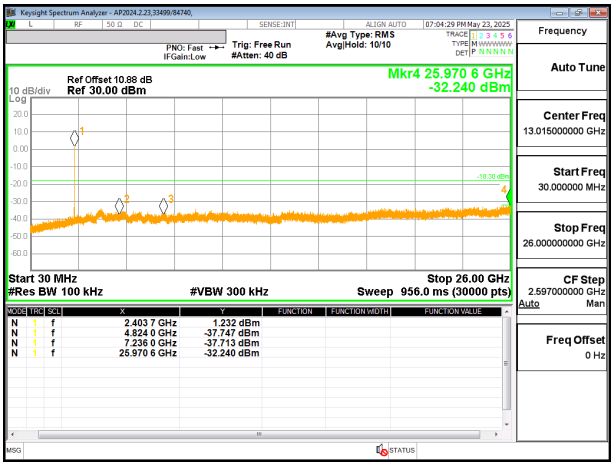
8.7.2. 802.11ax HE20 52T MODE

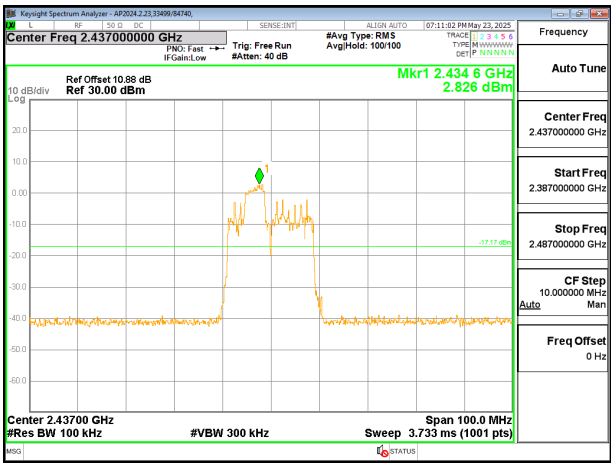
1TX Antenna 1 MODE



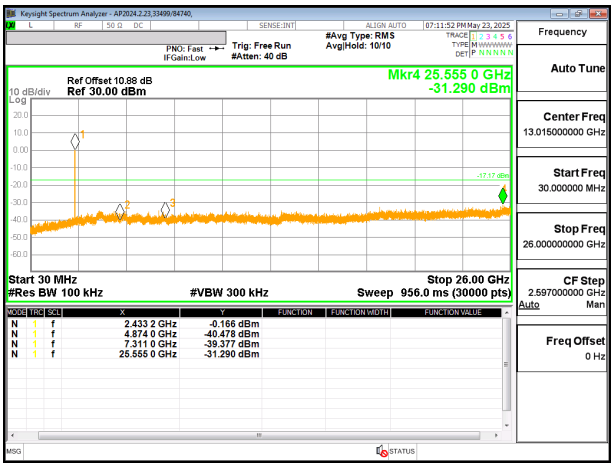
LOW CHANNEL 1 BANDEDGE



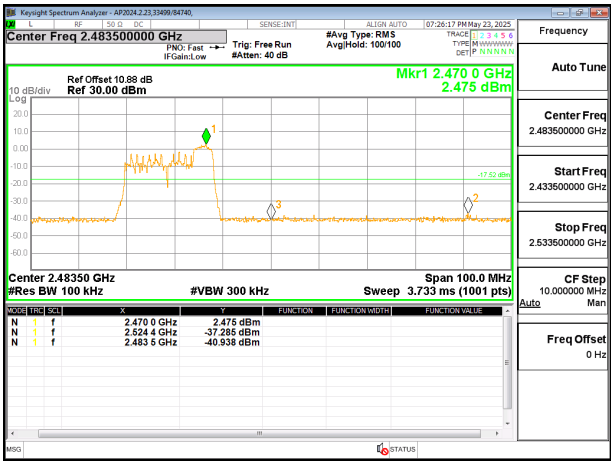
OUT-OF-BAND LOW CHANNEL 1



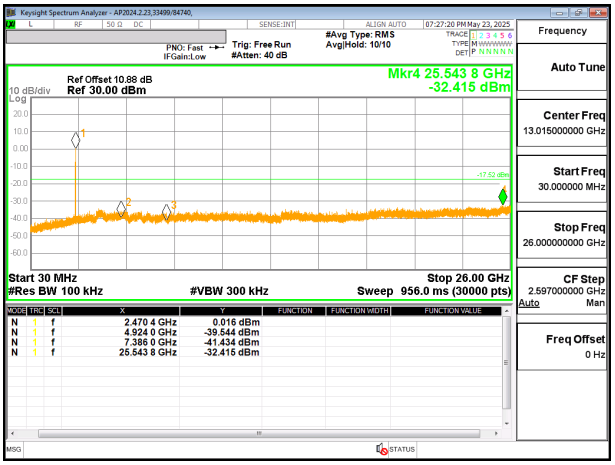
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

UL LLC
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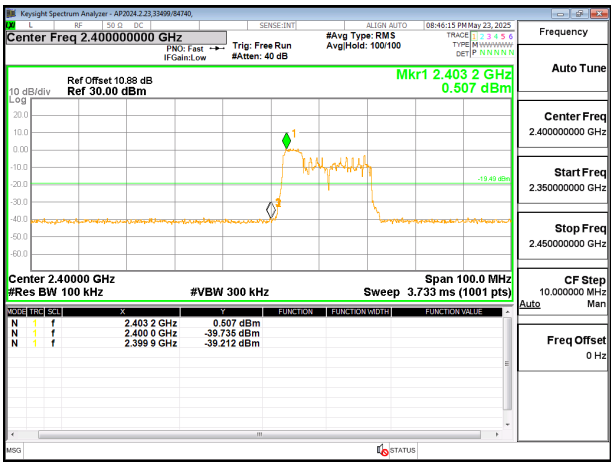
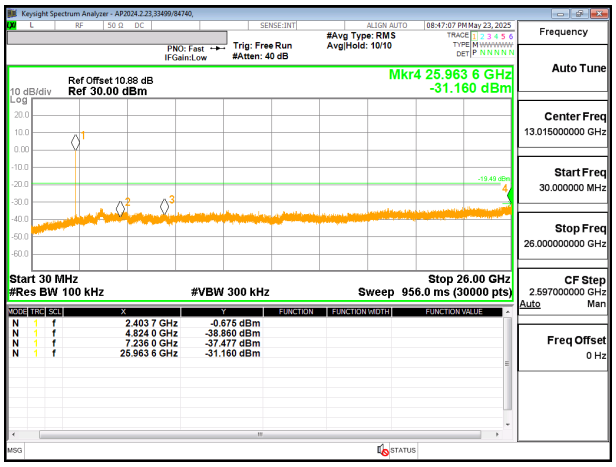
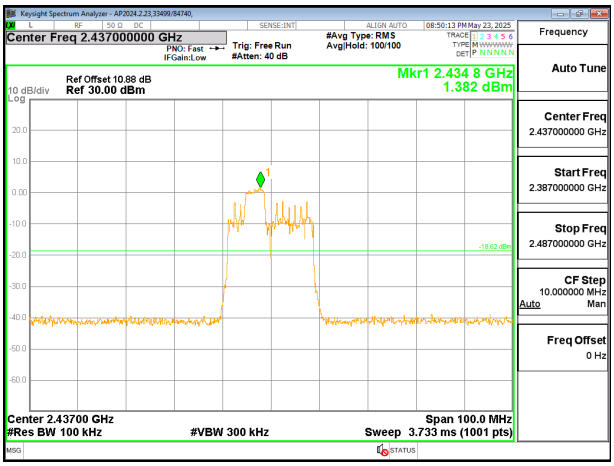
1TX Antenna 2 MODE



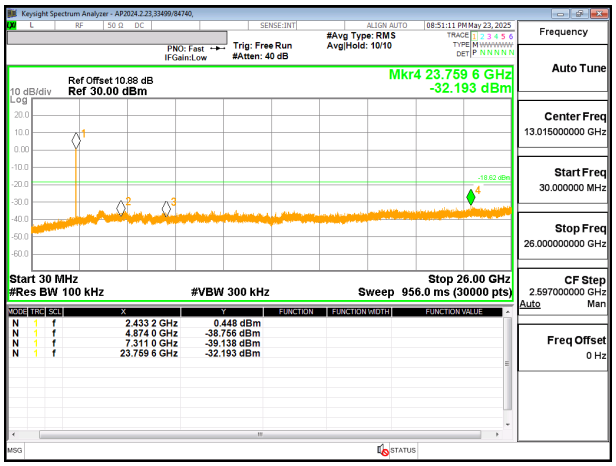
LOW CHANNEL 1 BANDEDGE



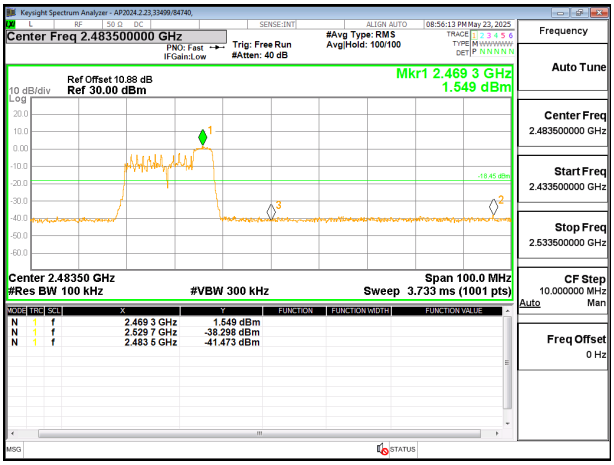
OUT-OF-BAND LOW CHANNEL 1



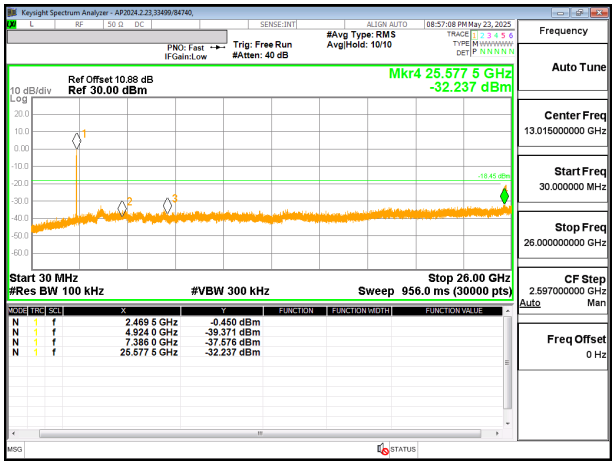
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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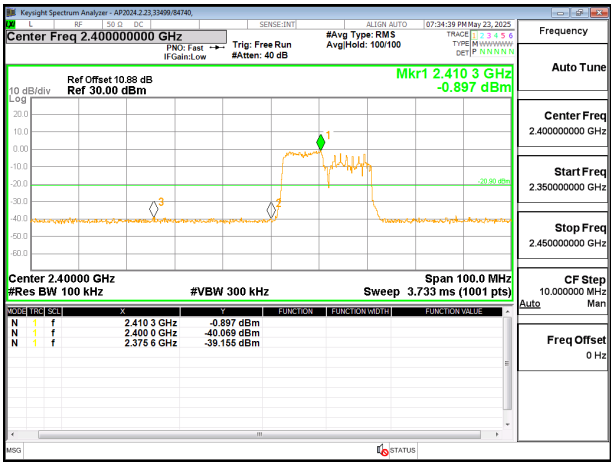
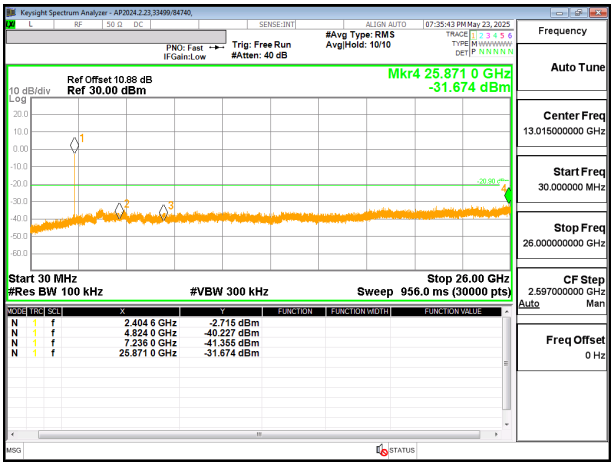
8.7.3. 802.11ax HE20 106T MODE

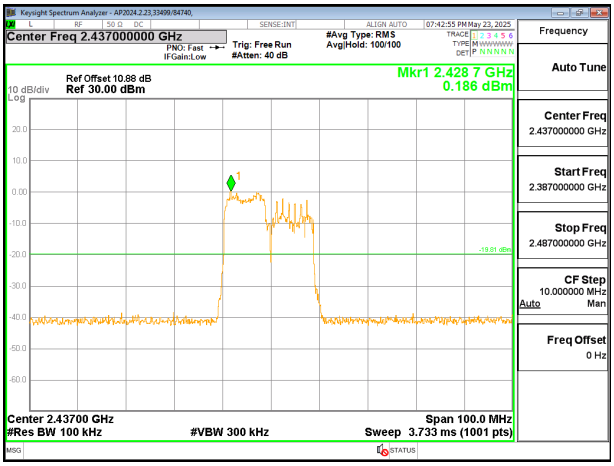
1TX Antenna 1 MODE



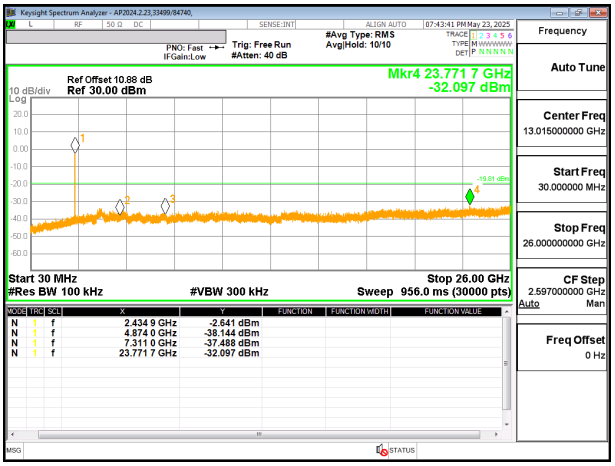
LOW CHANNEL 1 BANDEDGE



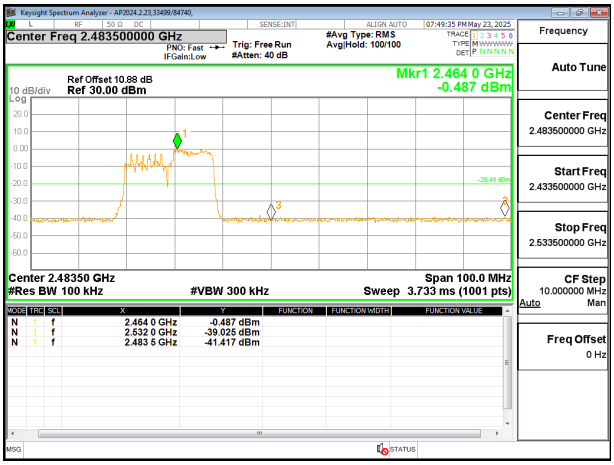
OUT-OF-BAND LOW CHANNEL 1



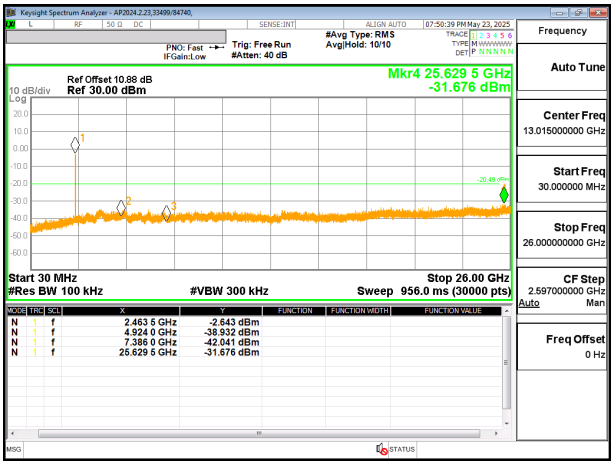
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

UL LLC
12 Laboratory Drive, RTP NC 27606; USA TEL:(919) 549-1400
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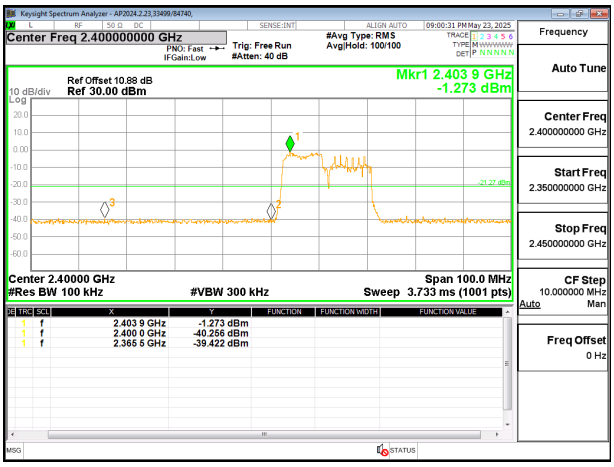
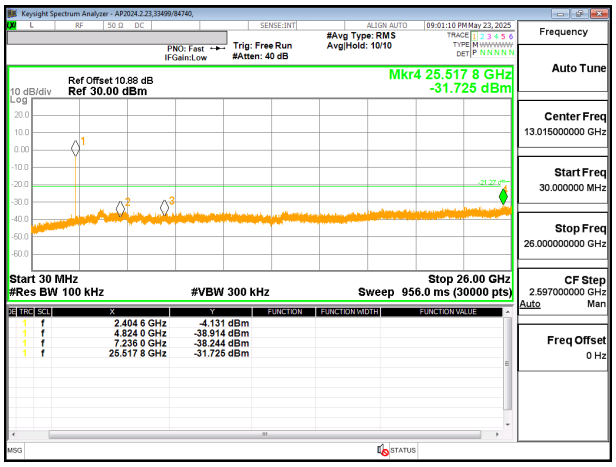
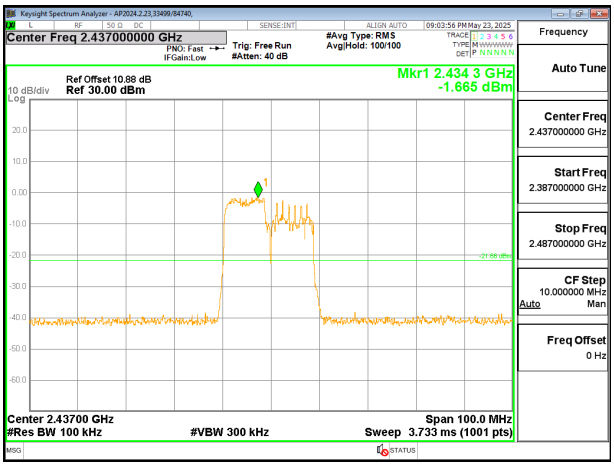
1TX Antenna 2 MODE



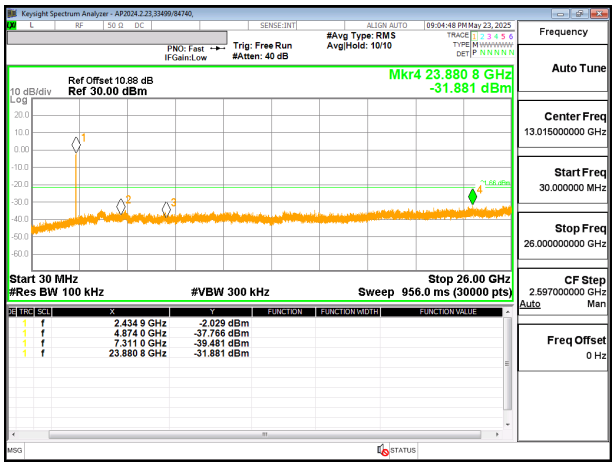
LOW CHANNEL 1 BANDEDGE



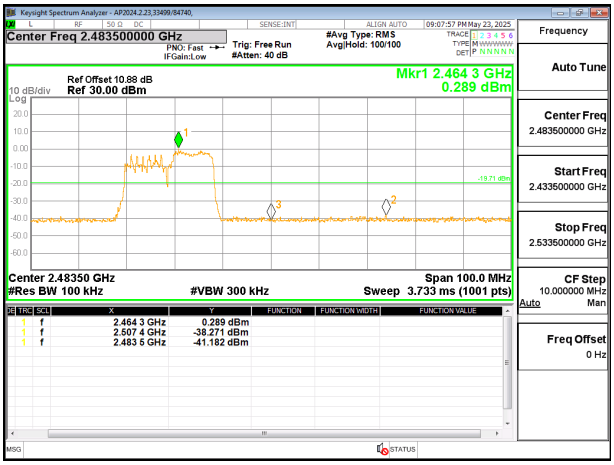
OUT-OF-BAND LOW CHANNEL 1



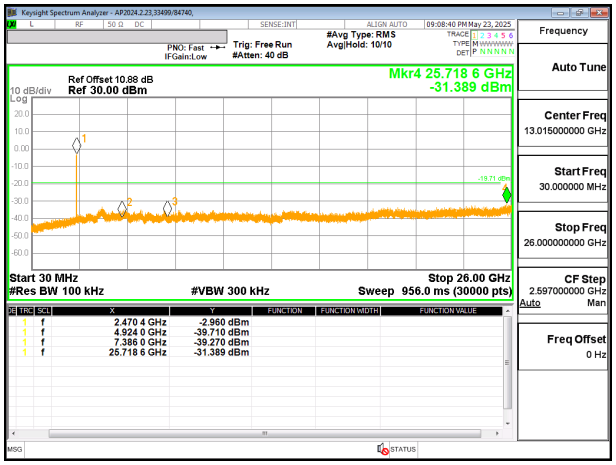
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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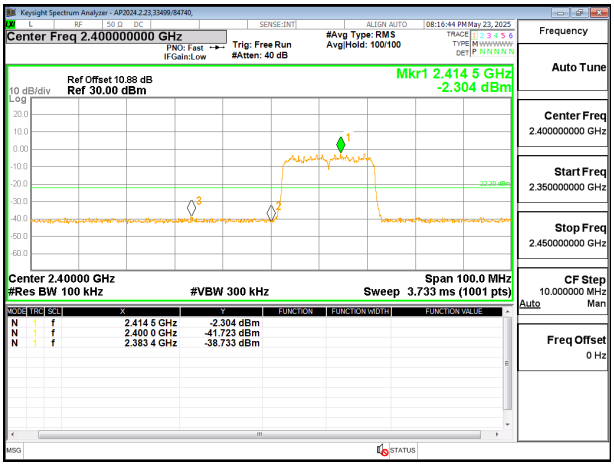
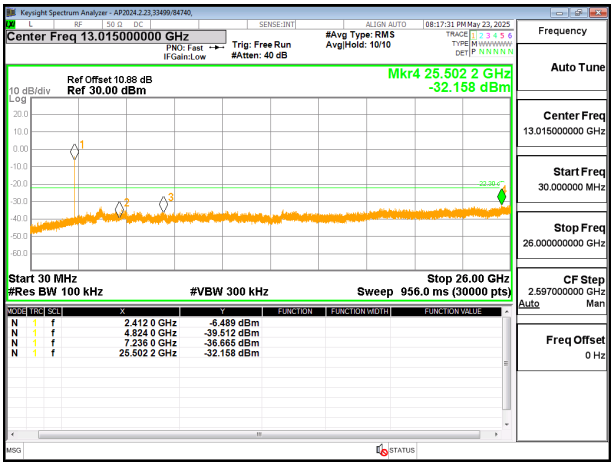
8.7.4. 802.11ax HE20 242T MODE

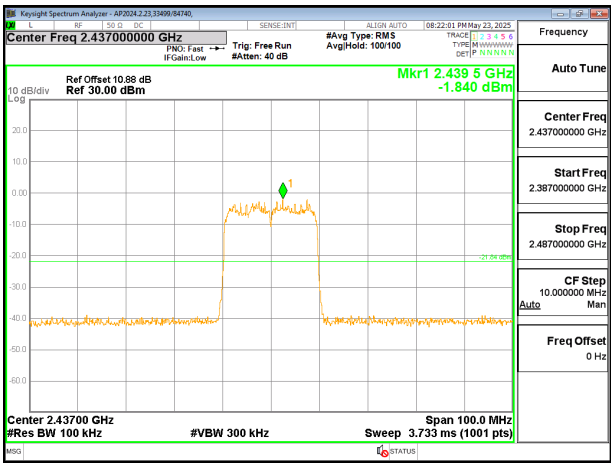
1TX Antenna 1 MODE



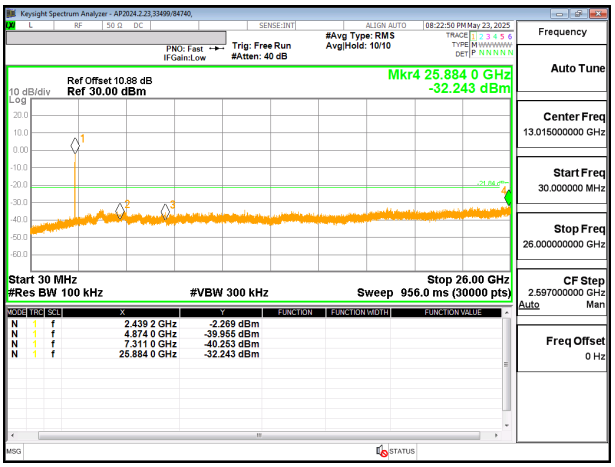
LOW CHANNEL 1 BANDEDGE



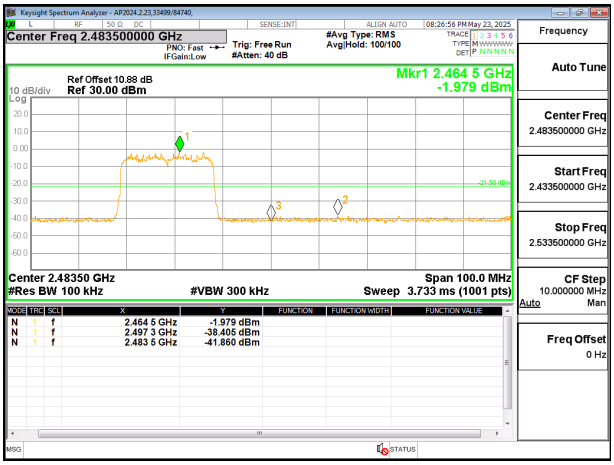
OUT-OF-BAND LOW CHANNEL 1



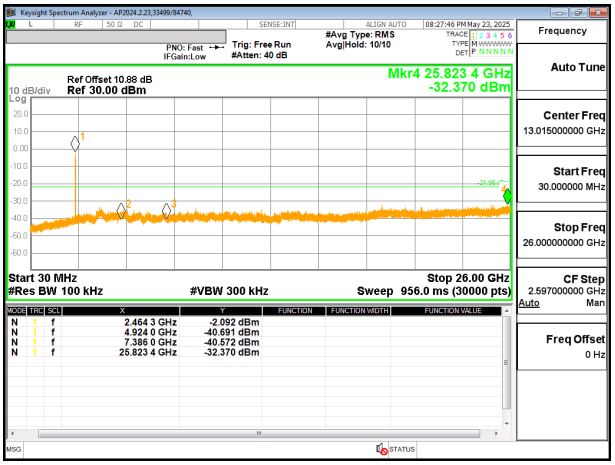
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

UL LLC
12 Laboratory Drive, RTP NC 27606; USA TEL:(919) 549-1400

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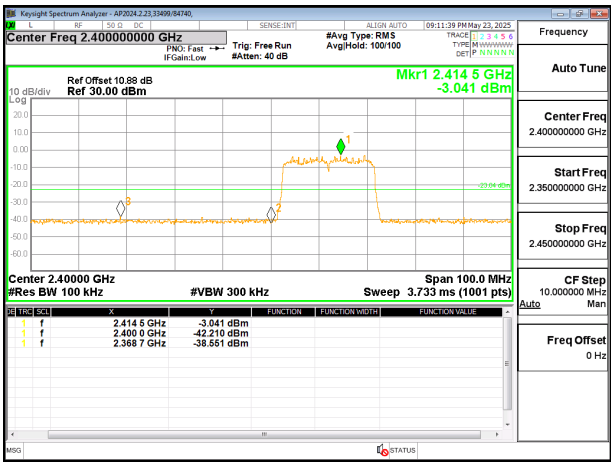
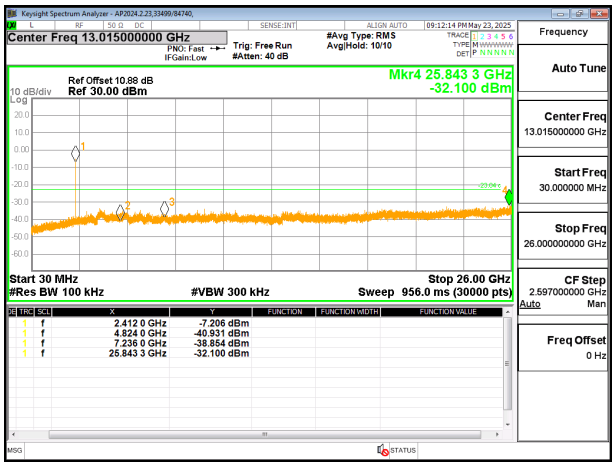
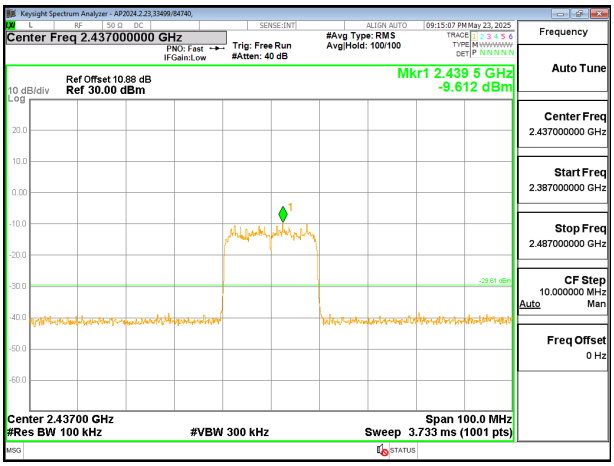
1TX Antenna 2 MODE



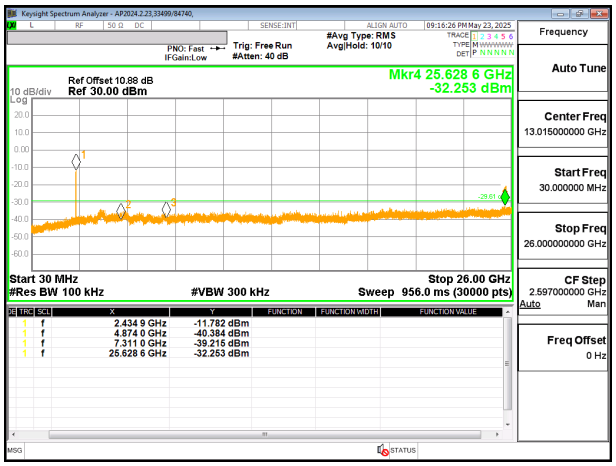
LOW CHANNEL 1 BANDEDGE



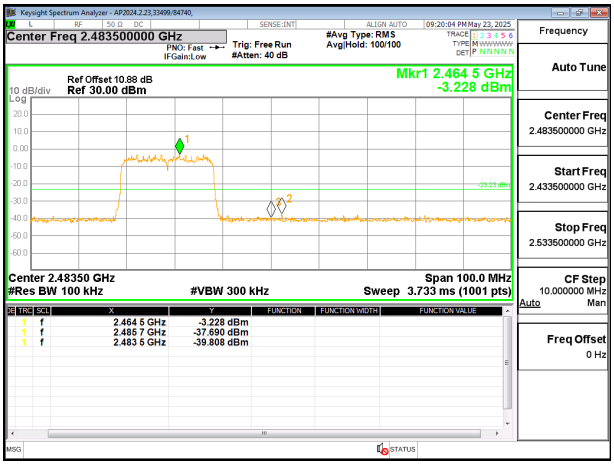
OUT-OF-BAND LOW CHANNEL 1



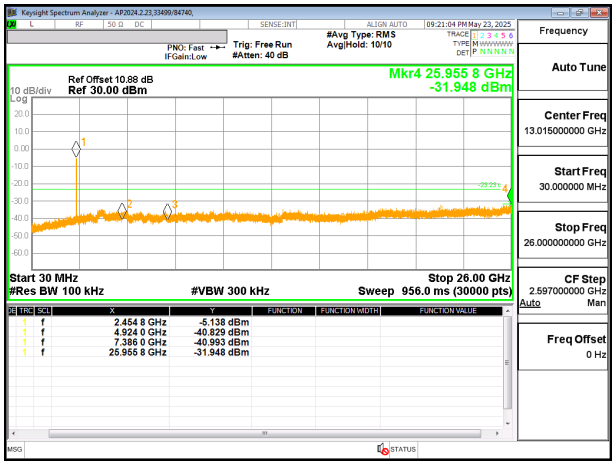
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

UL LLC
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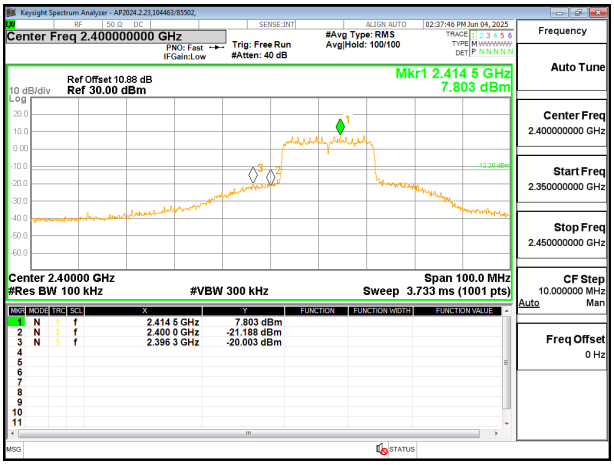
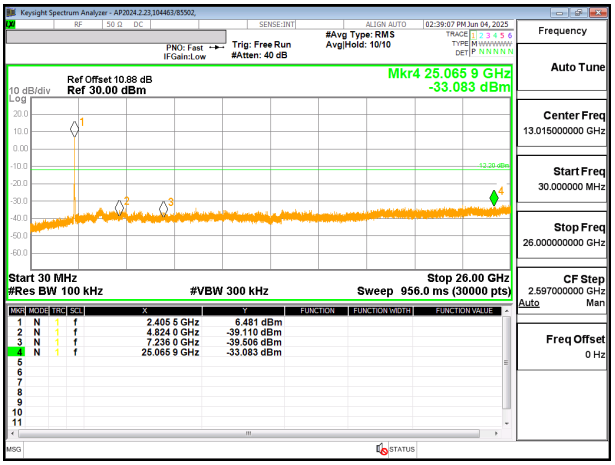
8.7.5. 802.11ax HE20 SU MODE

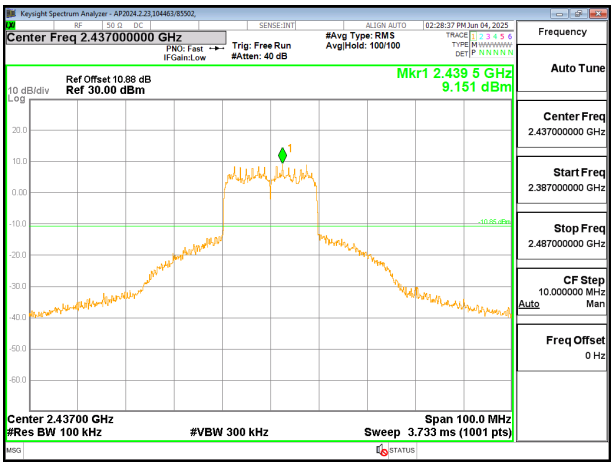
1TX Antenna 1 MODE



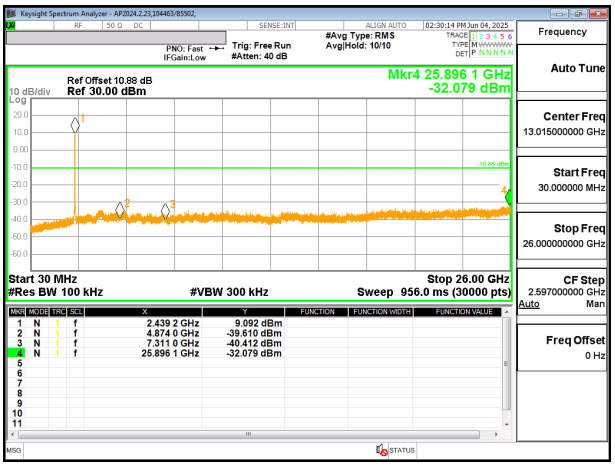
LOW CHANNEL 1 BANDEDGE



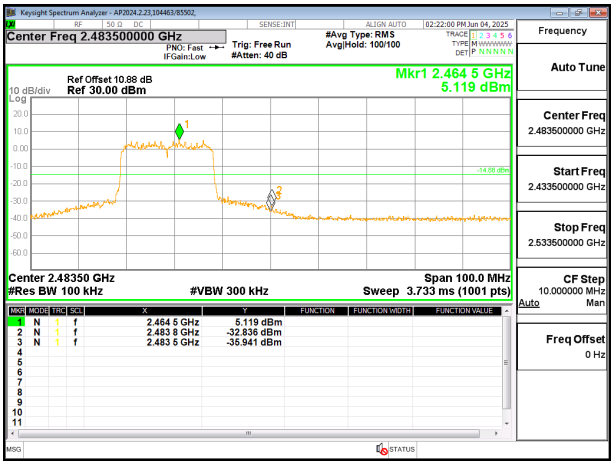
OUT-OF-BAND LOW CHANNEL 1



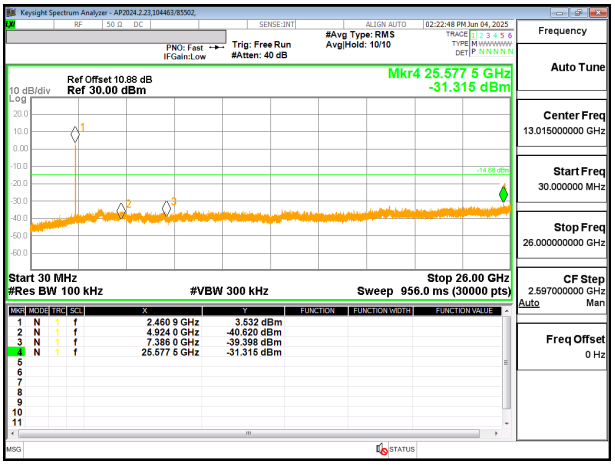
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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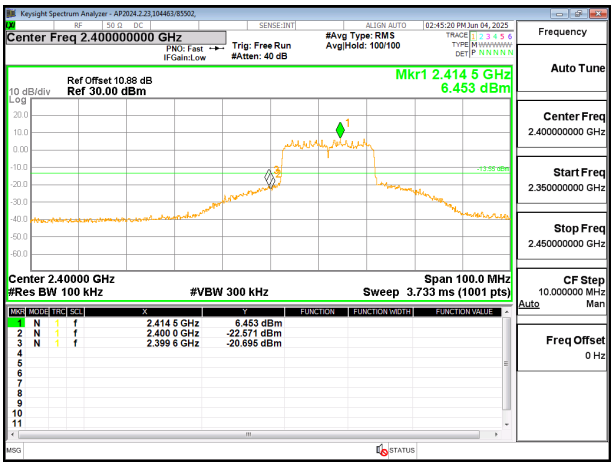
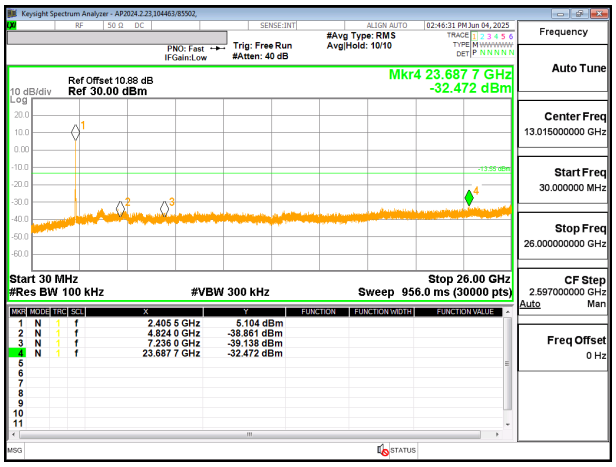
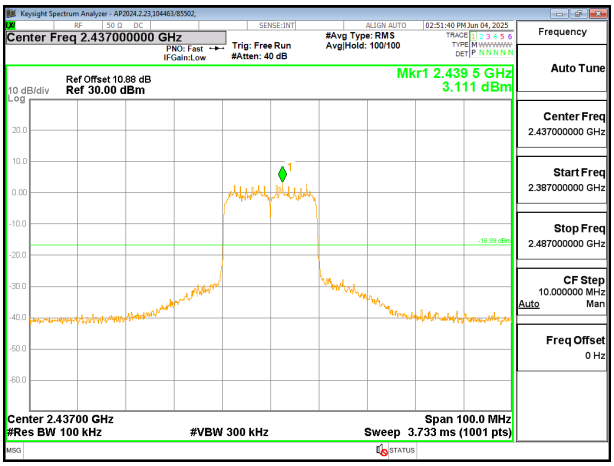
1TX Antenna 2 MODE



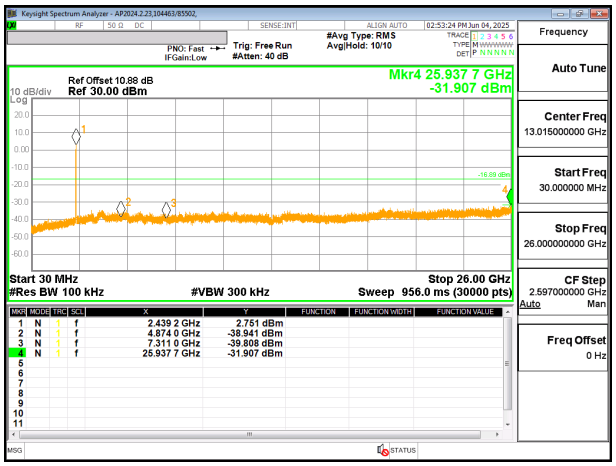
LOW CHANNEL 1 BANDEDGE



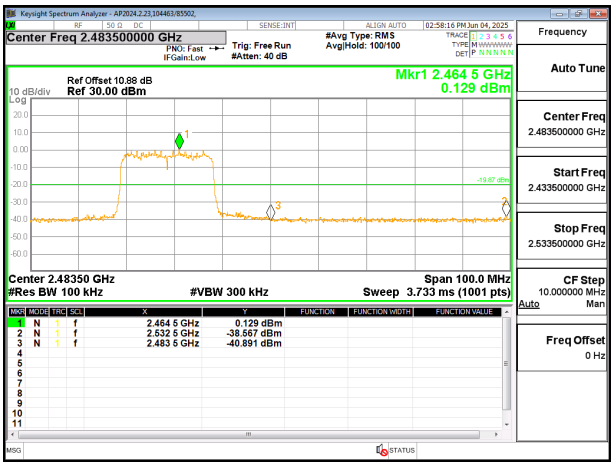
OUT-OF-BAND LOW CHANNEL 1



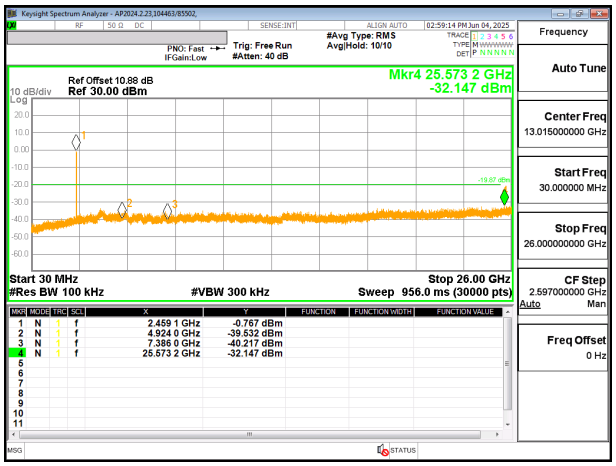
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



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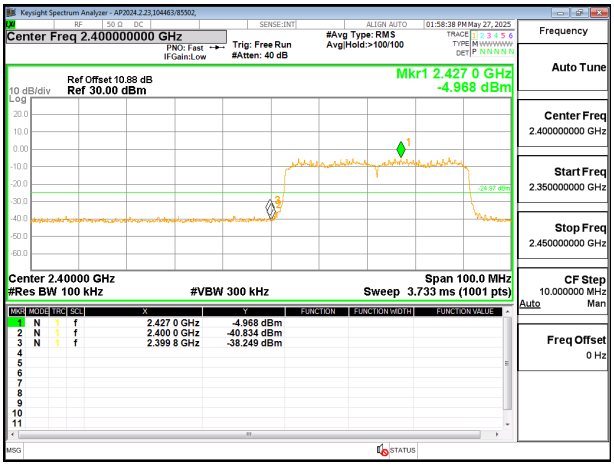
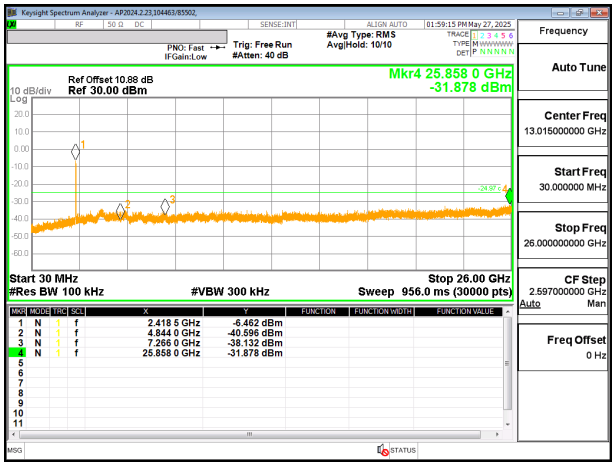
8.7.6. 802.11ax HE40 484T MODE

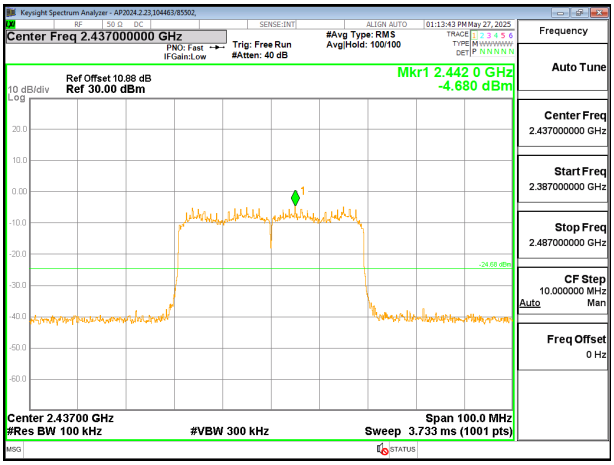
1TX Antenna 1 MODE



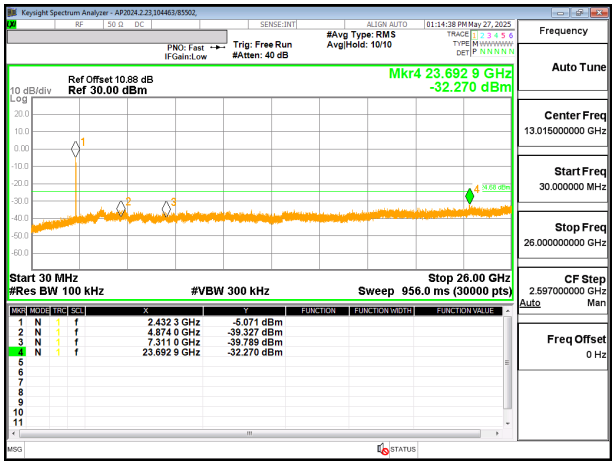
LOW CHANNEL 1 BANDEDGE



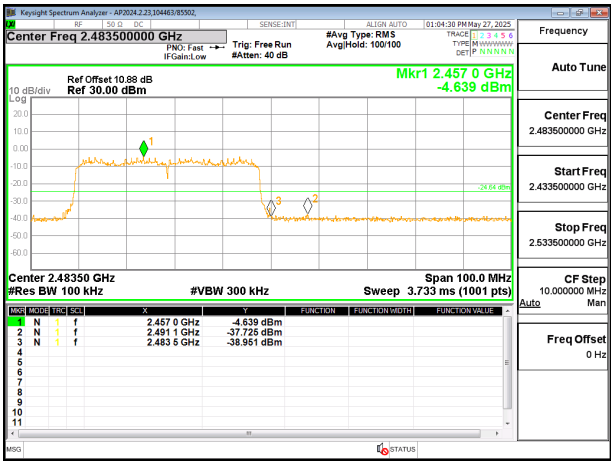
OUT-OF-BAND LOW CHANNEL 1



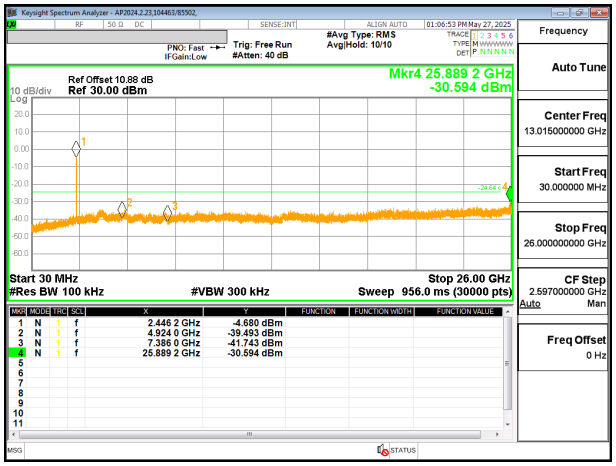
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



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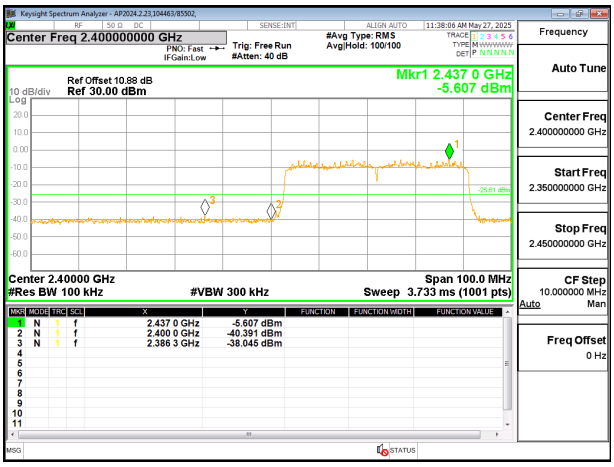
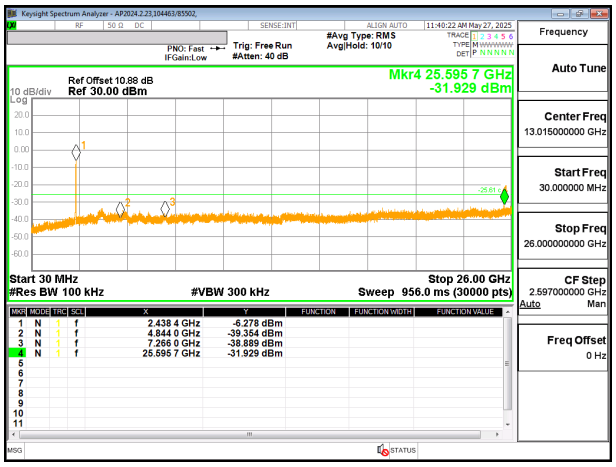
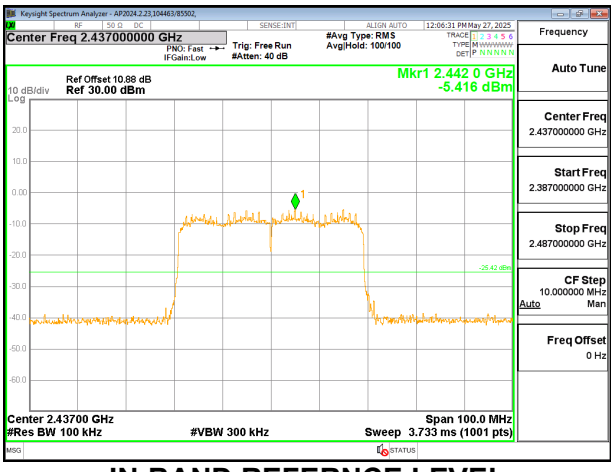
1TX Antenna 2 MODE



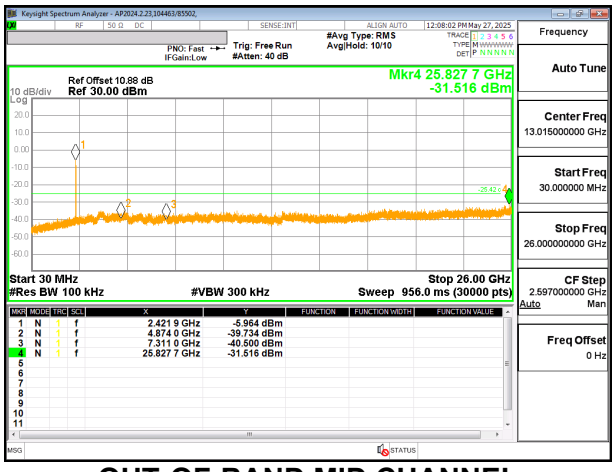
LOW CHANNEL 1 BANDEDGE



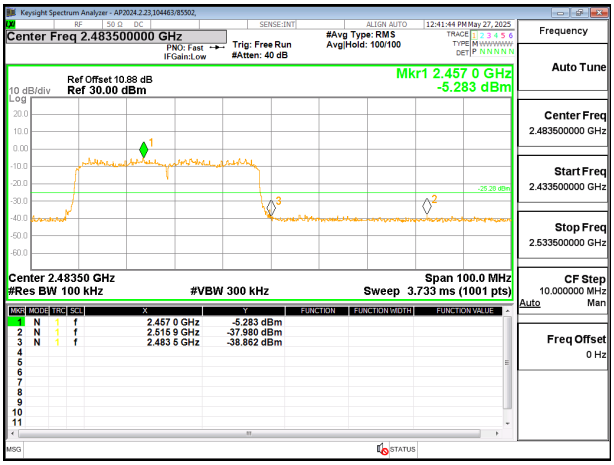
OUT-OF-BAND LOW CHANNEL 1



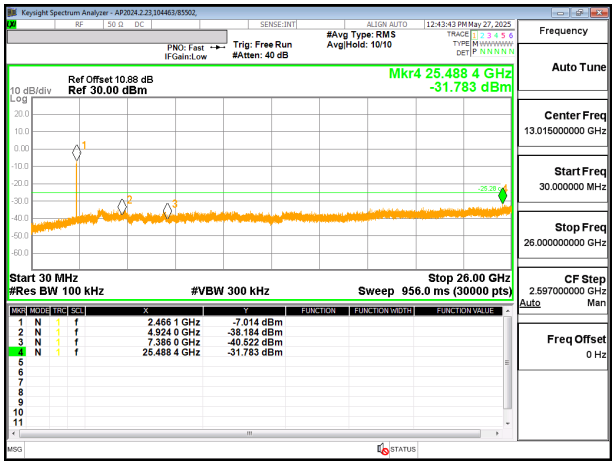
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



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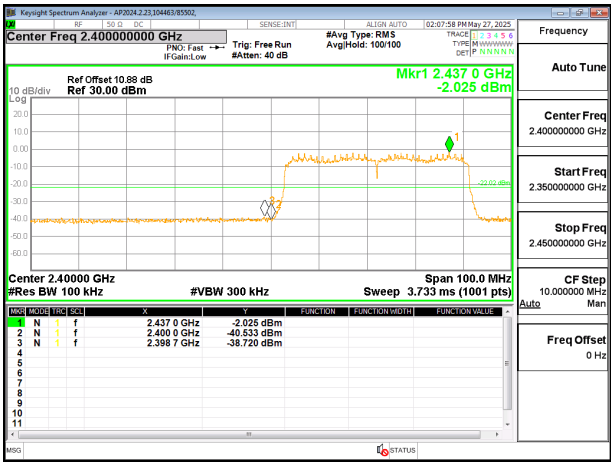
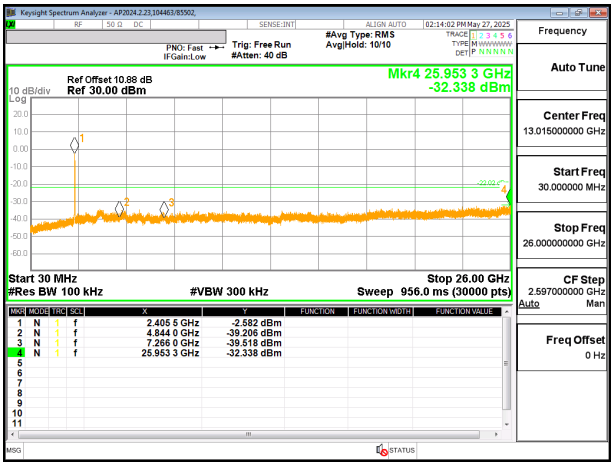
8.7.7. 802.11ax HE40 SU MODE

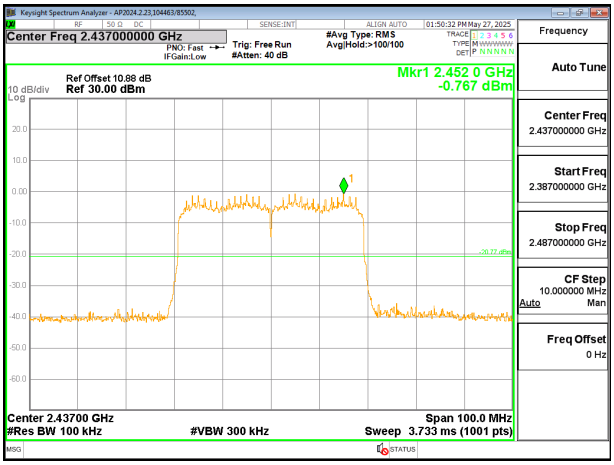
1TX Antenna 1 MODE



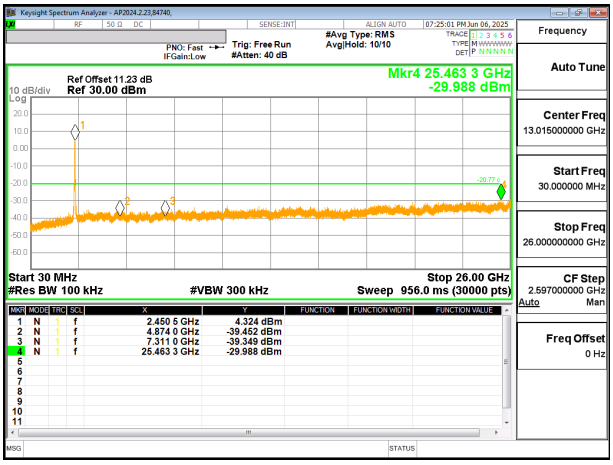
LOW CHANNEL 1 BANDEDGE



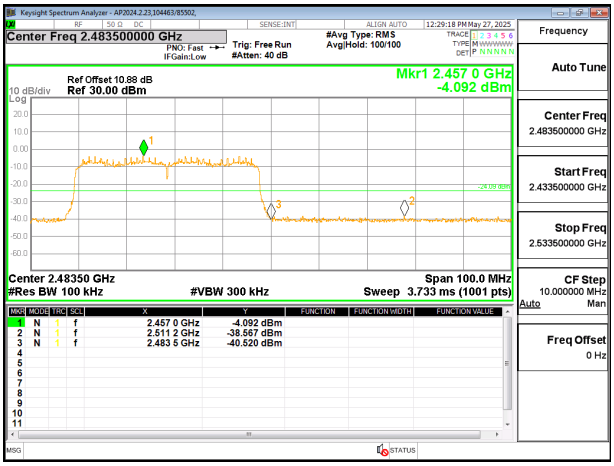
OUT-OF-BAND LOW CHANNEL 1



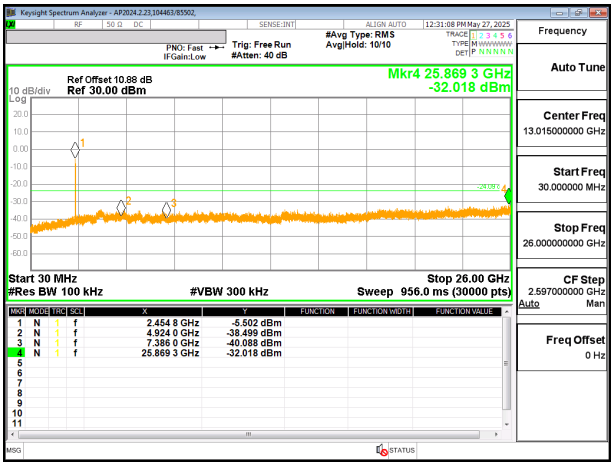
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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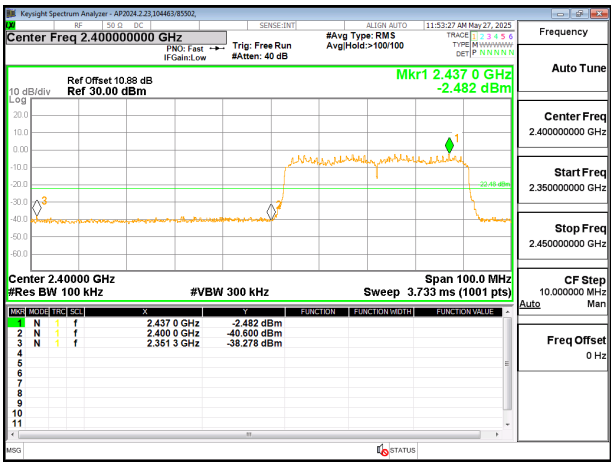
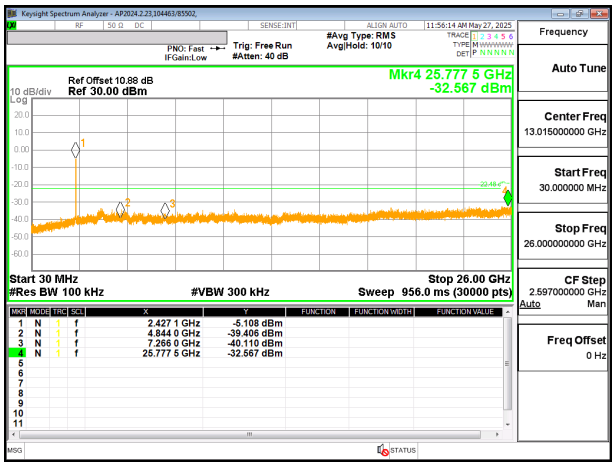
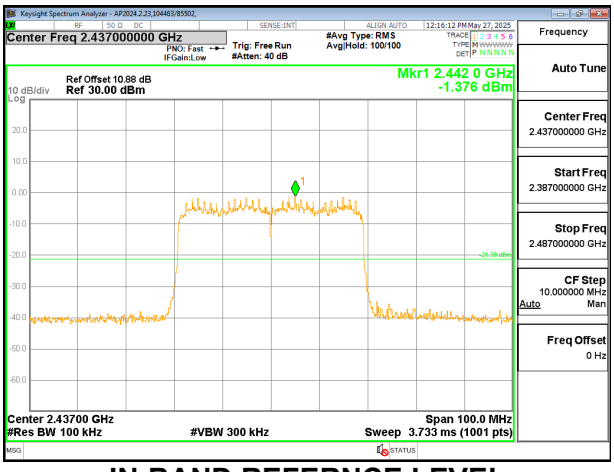
1TX Antenna 2 MODE



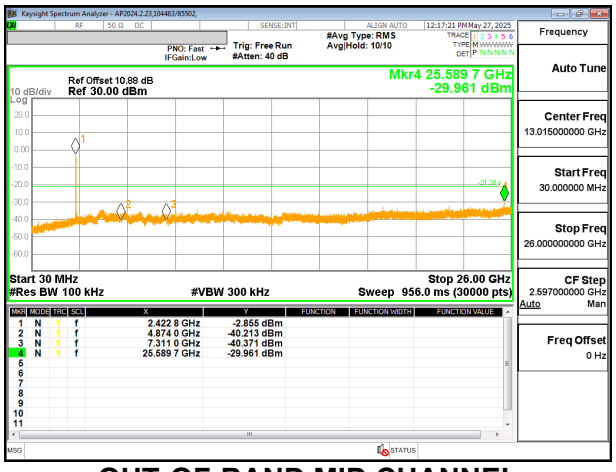
LOW CHANNEL 1 BANDEDGE



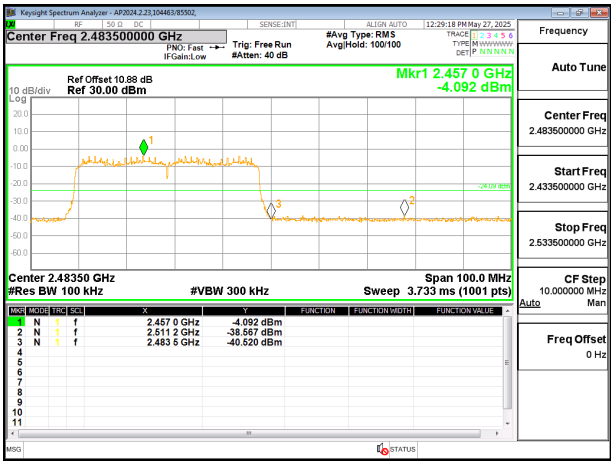
OUT-OF-BAND LOW CHANNEL 1



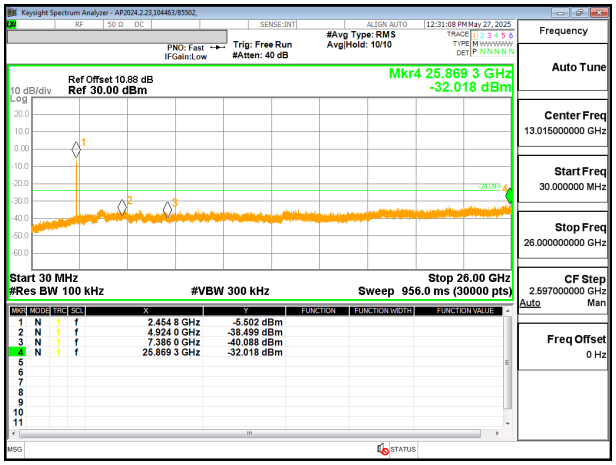
IN-BAND REFERNCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



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9. 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
Frequency Range (kHz)	**Field Strength Limit (uA/m) at 3 m**	**Field Strength Limit (dBuV/m) at 3 m**
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	**Field Strength Limit (uV/m) at 3 m**	**Field Strength Limit (dBuV/m) at 3 m**
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

Radiated emissions in restricted frequency bands: ANSI C63.10 Subclause -11.12.1, 6.3 thru 6.6

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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz 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. Linear Voltage Averaging was used.

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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.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

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

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

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

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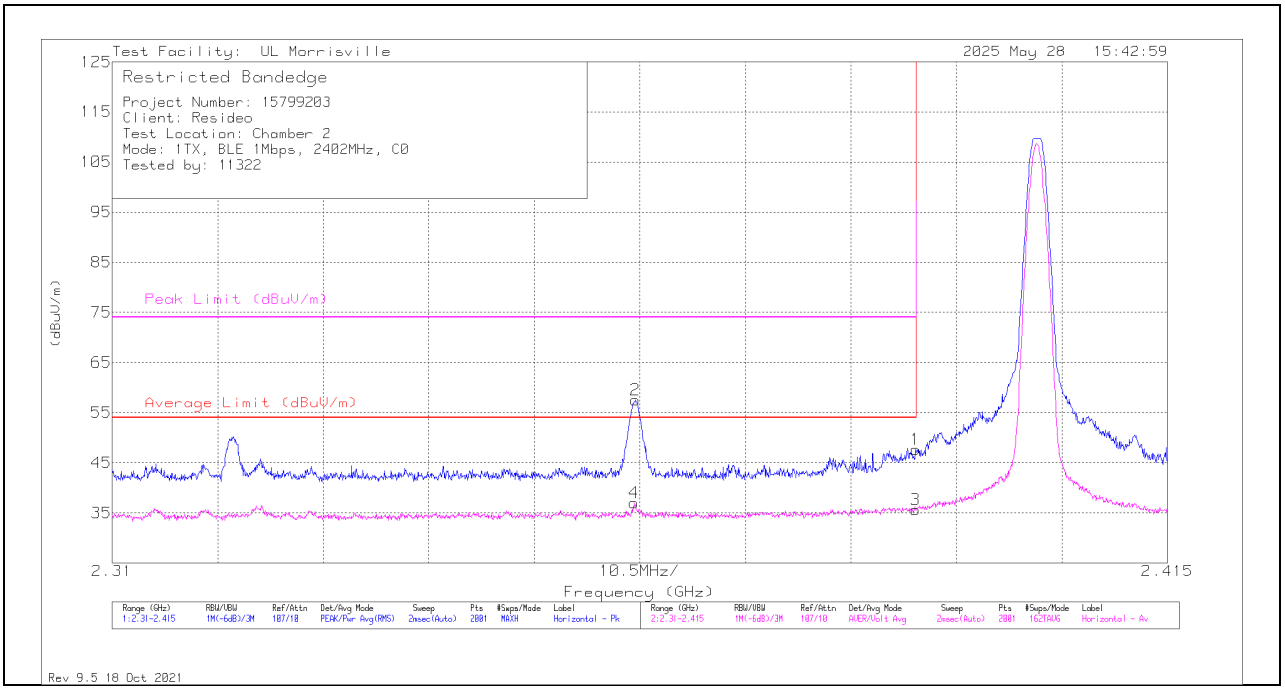
9.1. TRANSMITTER 1-18 GHz

9.1.1. BLE (1Mbps)

Antenna 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	38.99	Pk	32.3	-23.6	0	47.69	-	-	74	-26.31	163	157	H
2	* ** 2.36208	49.04	Pk	32.1	-23.6	0	57.54	-	-	74	-16.46	163	157	H
3	* ** 2.38996	22.72	ADV	32.3	-23.6	4.2	35.62	54	-18.38	-	-	163	157	H
4	* ** 2.36192	24.31	ADV	32.1	-23.6	4.2	37.01	54	-16.99	-	-	163	157	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

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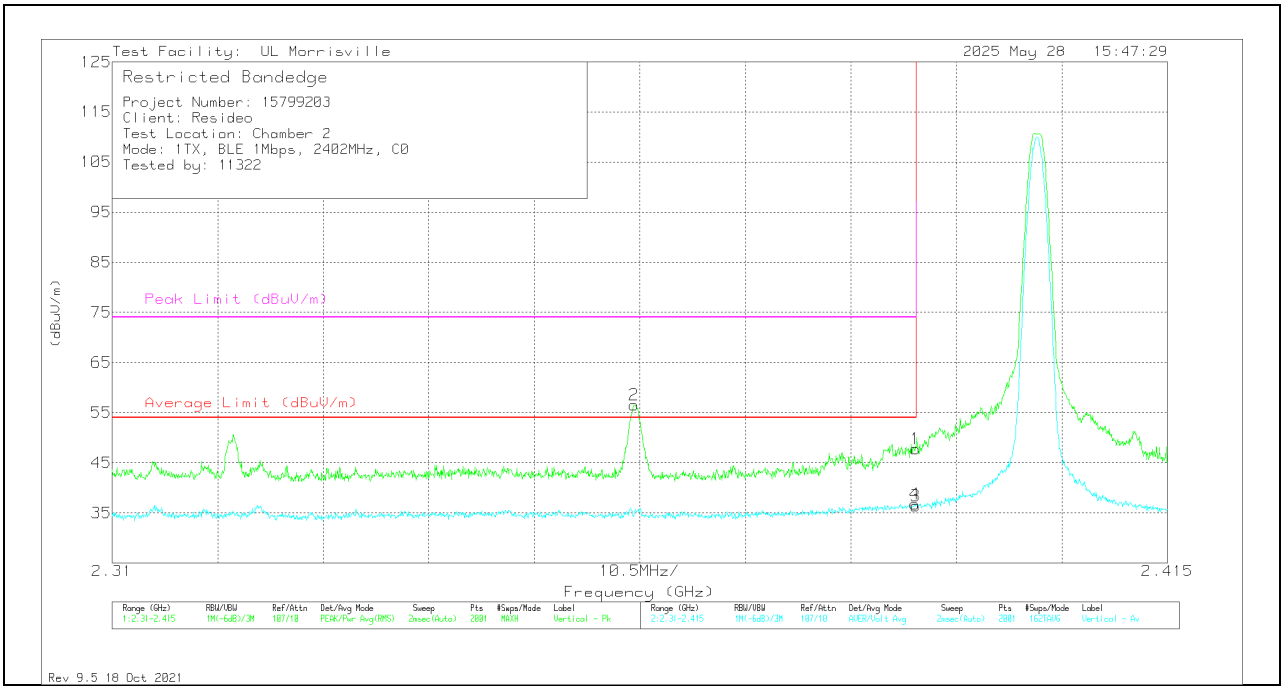
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	39.06	Pk	32.3	-23.6	0	47.76	-	-	74	-26.24	163	102	V
2	* ** 2.36192	47.99	Pk	32.1	-23.6	0	56.49	-	-	74	-17.51	163	102	V
3	* ** 2.38996	23.53	ADV	32.3	-23.6	4.2	36.43	54	-17.57	-	-	163	102	V
4	* ** 2.38985	23.79	ADV	32.3	-23.5	4.2	36.79	54	-17.21	-	-	163	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

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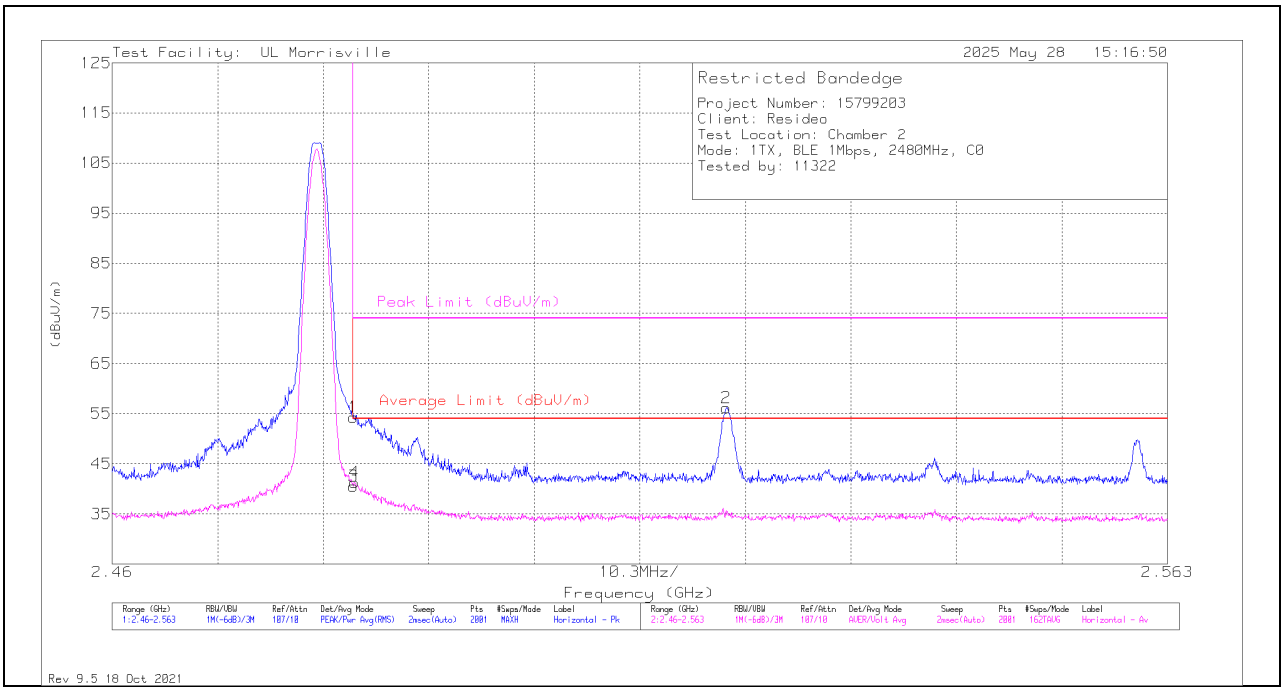
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	45.91	Pk	32.5	-24.1	0	54.31	-	-	74	-19.69	78	130	H
2	** 2.51995	48.27	Pk	32.5	-24.6	0	56.17	-	-	74	-17.83	78	130	H
3	* ** 2.48354	27.88	ADV	32.5	-24.1	4.2	40.48	54	-13.52	-	-	78	130	H
4	* ** 2.48364	28.65	ADV	32.5	-24.1	4.2	41.25	54	-12.75	-	-	78	130	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

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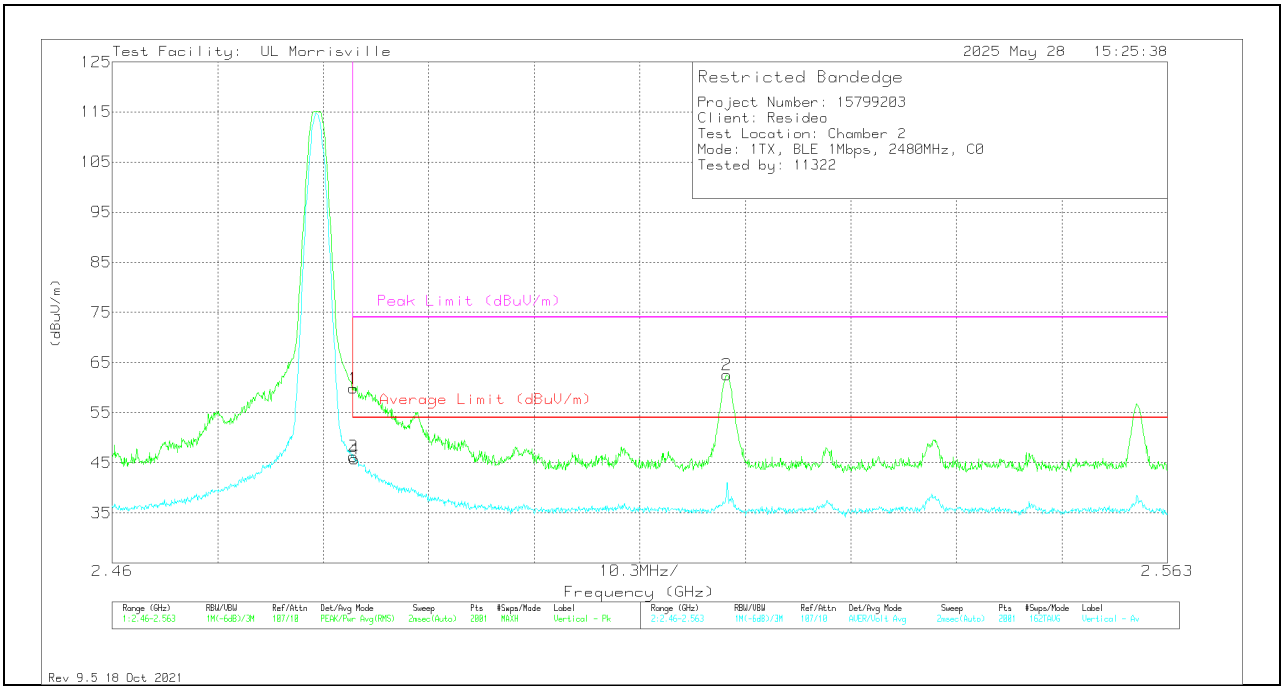
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	51.45	Pk	32.5	-24.1	0	59.85	-	-	74	-14.15	231	150	V
2	** 2.52	54.61	Pk	32.5	-24.6	0	62.51	-	-	74	-11.49	231	150	V
3	* ** 2.48354	33.69	ADV	32.5	-24.1	4.2	46.29	54	-7.71	-	-	231	150	V
4	* ** 2.48364	33.17	ADV	32.5	-24.1	4.2	45.77	54	-8.23	-	-	231	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
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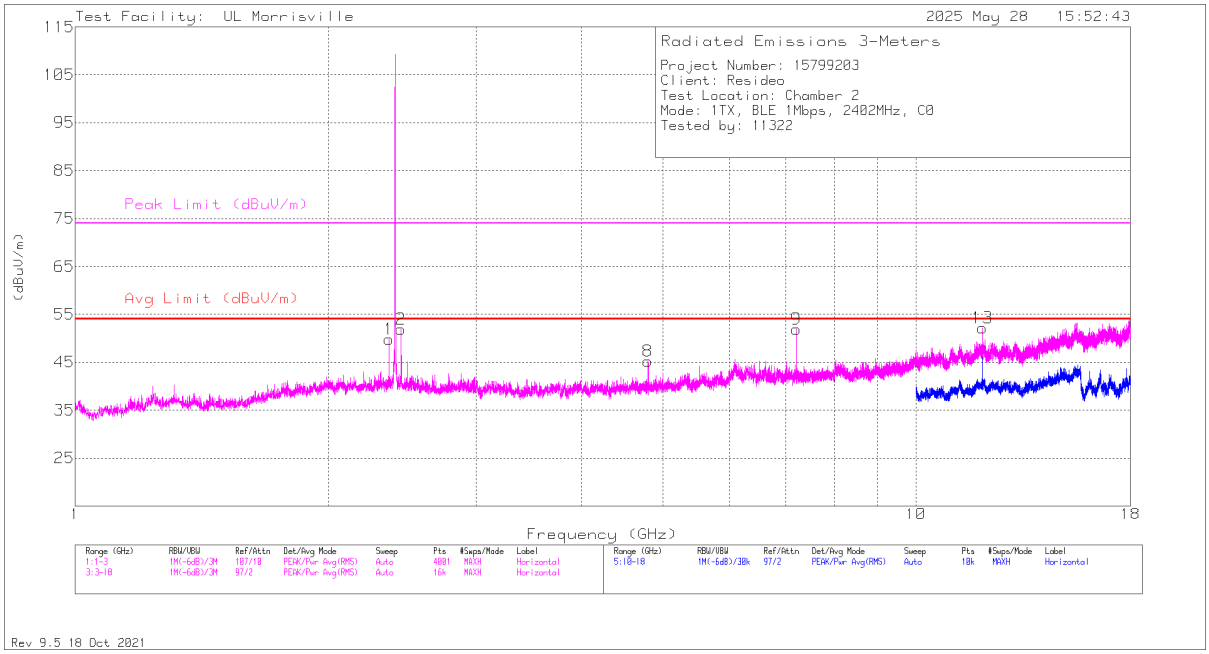
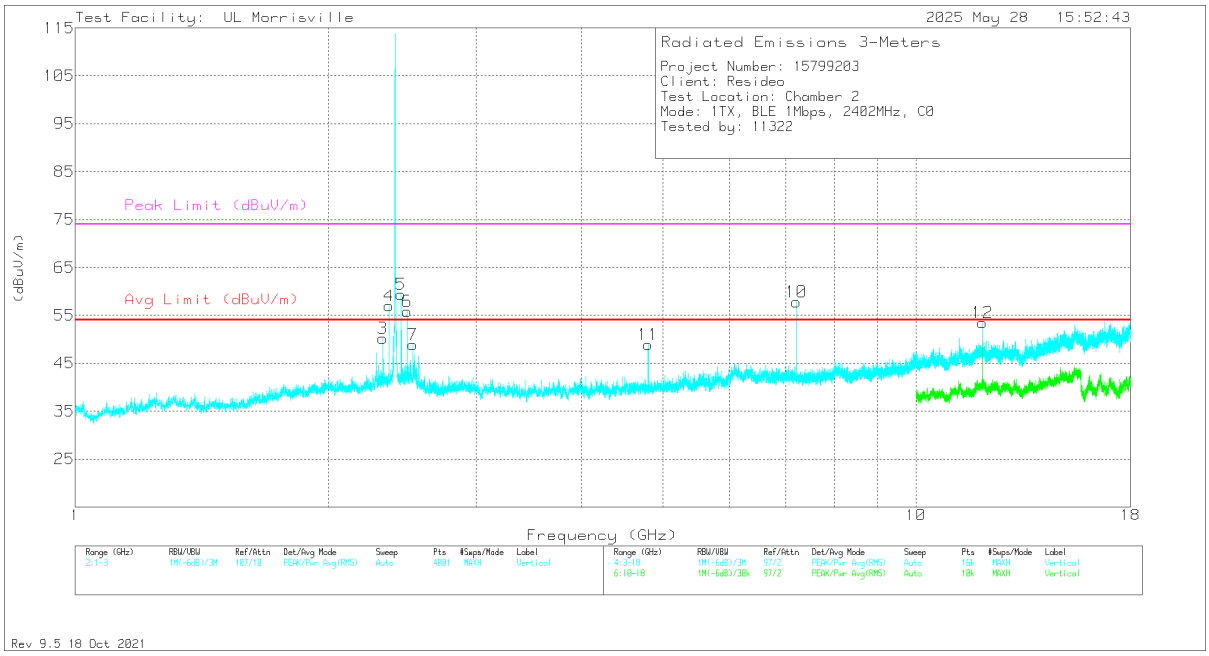
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
12	* 12.00871	58.09	PK2	38.9	-38.8	0	58.19	-	-	74	-15.81	220	281	V
	* 12.00885	47.72	ADV	38.9	-38.8	4.2	52.02	54	-1.98	-	-	220	281	V
13	* 12.00864	55.37	PK2	38.9	-38.8	0	55.47	-	-	74	-18.53	142	137	H
	* 12.00866	43.5	ADV	38.9	-38.8	4.2	47.8	54	-6.2	-	-	142	137	H
3	* 2.32205	45.28	PK2	32.1	-23.4	0	53.98	-	-	74	-20.02	237	110	V
	* 2.32442	25.65	ADV	32.1	-23.4	4.2	38.55	54	-15.45	-	-	237	110	V
1	* 2.36205	48.6	PK2	32.1	-23.6	0	57.1	-	-	74	-16.9	152	160	H
	* 2.3618	24.19	ADV	32.1	-23.6	4.2	36.89	54	-17.11	-	-	152	160	H
4	* 2.36191	51.58	PK2	32.1	-23.6	0	60.08	-	-	74	-13.92	320	111	V
	* 2.362	25.99	ADV	32.1	-23.6	4.2	38.69	54	-15.31	-	-	321	111	V
8	* 4.80281	54.96	Pk	34.2	-43.9	0	45.26	54	-8.74	74	-28.74	0-360	101	H
11	* 4.80457	57.87	PK2	34.2	-43.9	0	48.17	-	-	74	-25.83	0	130	V
	* 4.80375	47.98	ADV	34.2	-43.9	4.2	42.48	54	-11.52	-	-	0	130	V
7	2.5225	41.05	Pk	32.5	-24.6	0	48.95	-	-	-	-	0-360	101	V
2	2.442	43.19	Pk	32.4	-23.7	0	51.89	-	-	-	-	0-360	200	H
5	2.442	50.67	Pk	32.4	-23.7	0	59.37	-	-	-	-	0-360	101	V
6	2.4825	47.47	Pk	32.5	-24.1	0	55.87	-	-	-	-	0-360	200	V
9	7.20469	58.01	Pk	35.6	-41.7	0	51.91	-	-	-	-	0-360	199	H
10	7.20656	63.86	Pk	35.6	-41.7	0	57.76	-	-	-	-	0-360	199	V

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

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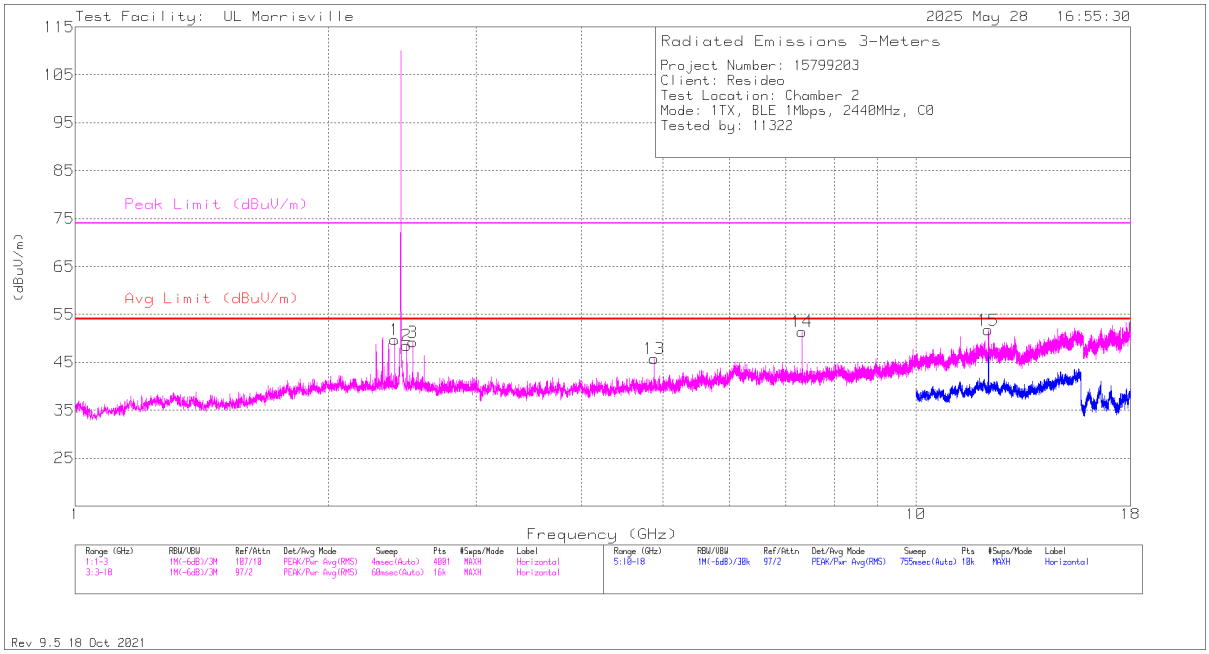
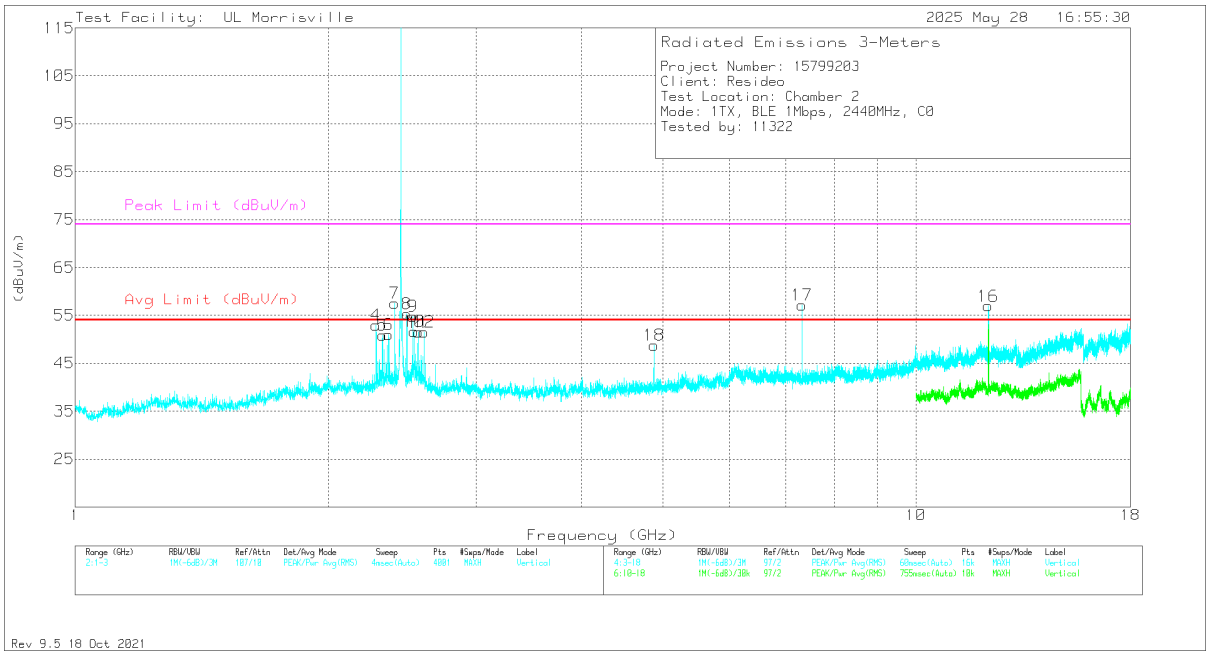
MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.2798	45.39	PK2	32.1	-23	0	54.49	-	-	74	-19.51	242	149	V
	* 2.27997	23.98	ADV	32.1	-23	4.2	37.28	54	-16.72	-	-	242	149	V
5	* 2.31975	44.69	PK2	32.1	-23.4	0	53.39	-	-	74	-20.61	237	114	V
	* 2.32004	25.37	ADV	32.1	-23.4	4.2	38.27	54	-15.73	-	-	237	114	V
6	* 2.35972	48.44	PK2	32.1	-23.6	0	56.94	-	-	74	-17.06	240	154	V
	* 2.3598	26.62	ADV	32.1	-23.6	4.2	39.32	54	-14.68	-	-	240	154	V
14	* 7.31911	60.33	PK2	35.6	-41.8	0	54.13	-	-	74	-19.87	158	245	H
	* 7.31931	50.29	ADV	35.6	-41.8	4.2	48.29	54	-5.71	-	-	158	245	H
15	* 12.1988	53.74	PK2	38.9	-38.4	0	54.24	-	-	74	-19.76	123	231	H
	* 12.1987	42.7	ADV	38.9	-38.4	4.2	47.4	54	-6.6	-	-	123	231	H
16	* 12.2012	58.9	PK2	38.9	-38.4	0	59.4	-	-	74	-14.6	190	124	V
	* 12.1986	47.98	ADV	38.9	-38.4	4.2	52.68	54	-1.32	-	-	190	124	V
17	* 7.32075	64.87	PK2	35.6	-41.8	0	58.67	-	-	74	-15.33	222	178	V
	* 7.31929	55.45	ADV	35.6	-41.8	4.2	53.45	54	-.55	-	-	222	178	V
18	* 4.88051	61.32	PK2	34.1	-43.7	0	51.72	-	-	74	-22.28	260	153	V
	* 4.88005	52.43	ADV	34.1	-43.7	4.2	47.03	54	-6.97	-	-	260	153	V
13	* 4.87969	55.36	Pk	34.1	-43.7	0	45.76	54	-8.24	74	-28.24	0-360	200	H
1	2.4	41.34	Pk	32.3	-23.9	0	49.74	-	-	-	-	0-360	200	H
7	2.4	49.12	Pk	32.3	-23.9	0	57.52	-	-	-	-	0-360	101	V
2	2.48	40.16	Pk	32.5	-24.1	0	48.56	-	-	-	-	0-360	200	H
8	2.4805	46.95	Pk	32.5	-24.1	0	55.35	-	-	-	-	0-360	101	V
3	2.52	41.32	Pk	32.5	-24.6	0	49.22	-	-	-	-	0-360	101	H
9	2.52	46.86	Pk	32.5	-24.6	0	54.76	-	-	-	-	0-360	101	V
10	2.5305	43.78	Pk	32.5	-24.6	0	51.68	-	-	-	-	0-360	101	V
11	2.5605	43.45	Pk	32.5	-24.5	0	51.45	-	-	-	-	0-360	101	V
12	2.6	44.17	Pk	32.4	-25.1	0	51.47	-	-	-	-	0-360	199	V

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

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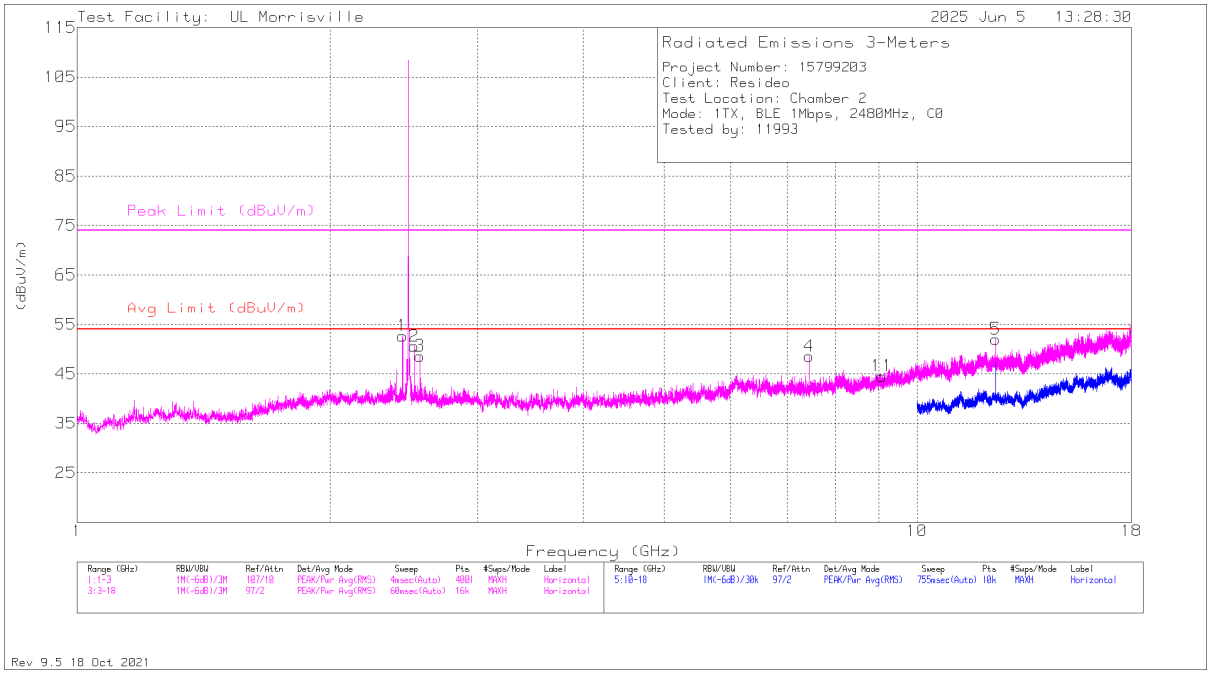
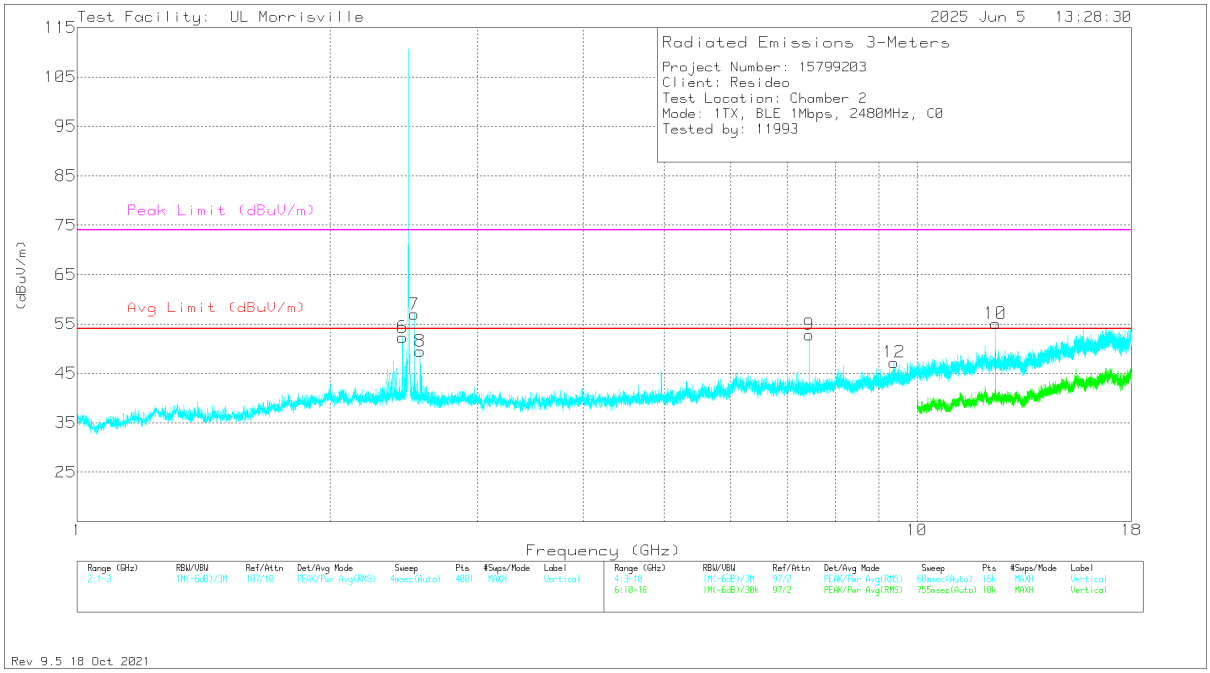
HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 7.43928	57.94	PK2	35.6	-41.1	0	52.44	-	-	74	-21.56	154	215	H
	* 7.43923	47.51	ADV	35.6	-41.1	4.2	46.21	54	-7.79	-	-	154	215	H
5	* 12.40115	54.73	PK2	38.8	-38.3	0	55.23	-	-	74	-18.77	168	219	H
	* 12.40097	42.05	ADV	38.8	-38.3	4.2	46.75	54	-7.25	-	-	168	219	H
11	* 9.08625	48.66	Pk	35.9	-40	0	44.56	54	-9.44	74	-29.44	0-360	200	H
9	* 7.43912	60.25	PK2	35.6	-41.1	0	54.75	-	-	74	-19.25	250	189	V
	* 7.43924	50.37	ADV	35.6	-41.1	4.2	49.07	54	-4.93	-	-	250	189	V
10	* 12.40117	58.31	PK2	38.8	-38.3	0	58.81	-	-	74	-15.19	190	111	V
	* 12.3986	46.64	ADV	38.8	-38.2	4.2	51.44	54	-2.56	-	-	190	111	V
12	* 9.39281	50.63	Pk	36.2	-39.6	0	47.23	54	-6.77	74	-26.77	0-360	199	V
1	2.44	43.89	Pk	32.4	-23.6	0	52.69	-	-	-	-	0-360	101	H
6	2.44	43.49	Pk	32.4	-23.6	0	52.29	-	-	-	-	0-360	200	V
7	2.52	49.05	Pk	32.5	-24.6	0	56.95	-	-	-	-	0-360	101	V
2	2.5205	42.7	Pk	32.5	-24.6	0	50.6	-	-	-	-	0-360	199	H
3	2.56	40.61	Pk	32.5	-24.5	0	48.61	-	-	-	-	0-360	101	H
8	2.5605	41.48	Pk	32.5	-24.5	0	49.48	-	-	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
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ADV - Linear Voltage Average

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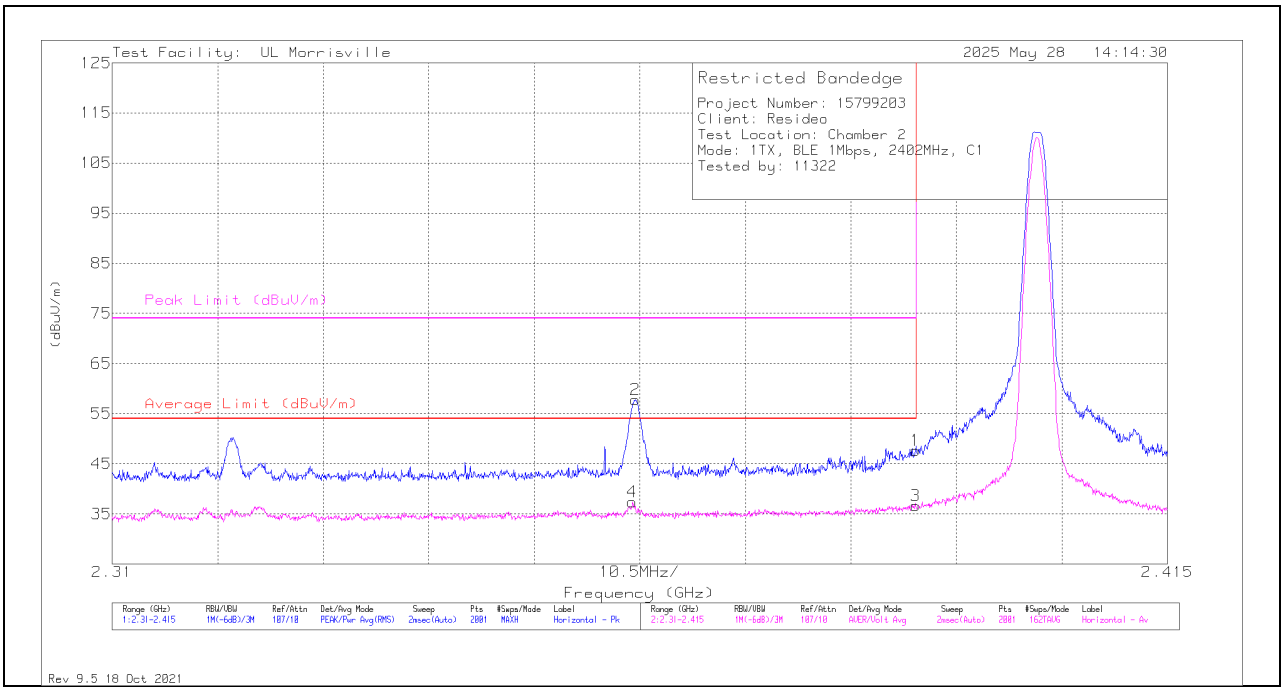
Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	38.95	Pk	32.3	-23.6	0	47.65	-	-	74	-26.35	174	111	H
2	* ** 2.36203	49.3	Pk	32.1	-23.6	0	57.8	-	-	74	-16.2	174	111	H
3	* ** 2.38996	23.69	ADV	32.3	-23.6	4.2	36.59	54	-17.41	-	-	174	111	V
4	* ** 2.36177	24.72	ADV	32.1	-23.6	4.2	37.42	54	-16.58	-	-	174	111	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
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ADV - Linear Voltage Average

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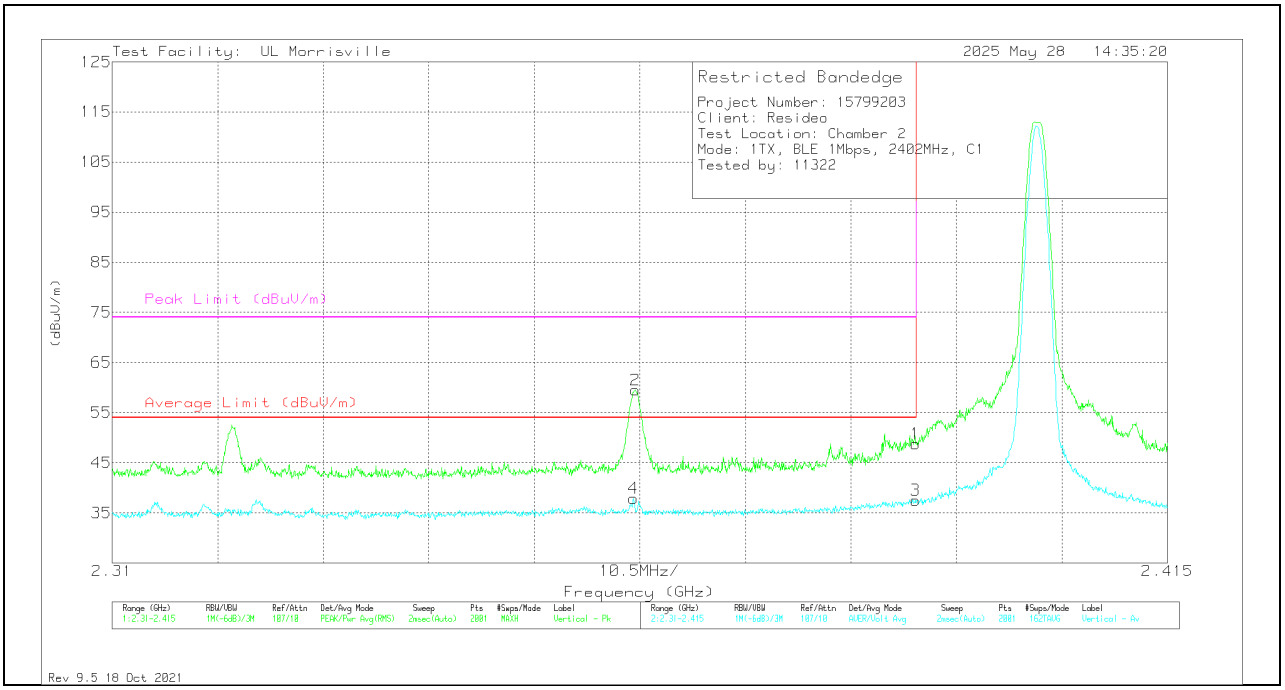
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	40.03	Pk	32.3	-23.6	0	48.73	-	-	74	-25.27	124	159	V
2	* ** 2.36203	50.99	Pk	32.1	-23.6	0	59.49	-	-	74	-14.51	124	159	V
3	* ** 2.38996	24.56	ADV	32.3	-23.6	4.2	37.46	54	-16.54	-	-	124	159	V
4	* ** 2.36187	25.18	ADV	32.1	-23.6	4.2	37.88	54	-16.12	-	-	124	159	V

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ADV - Linear Voltage Average

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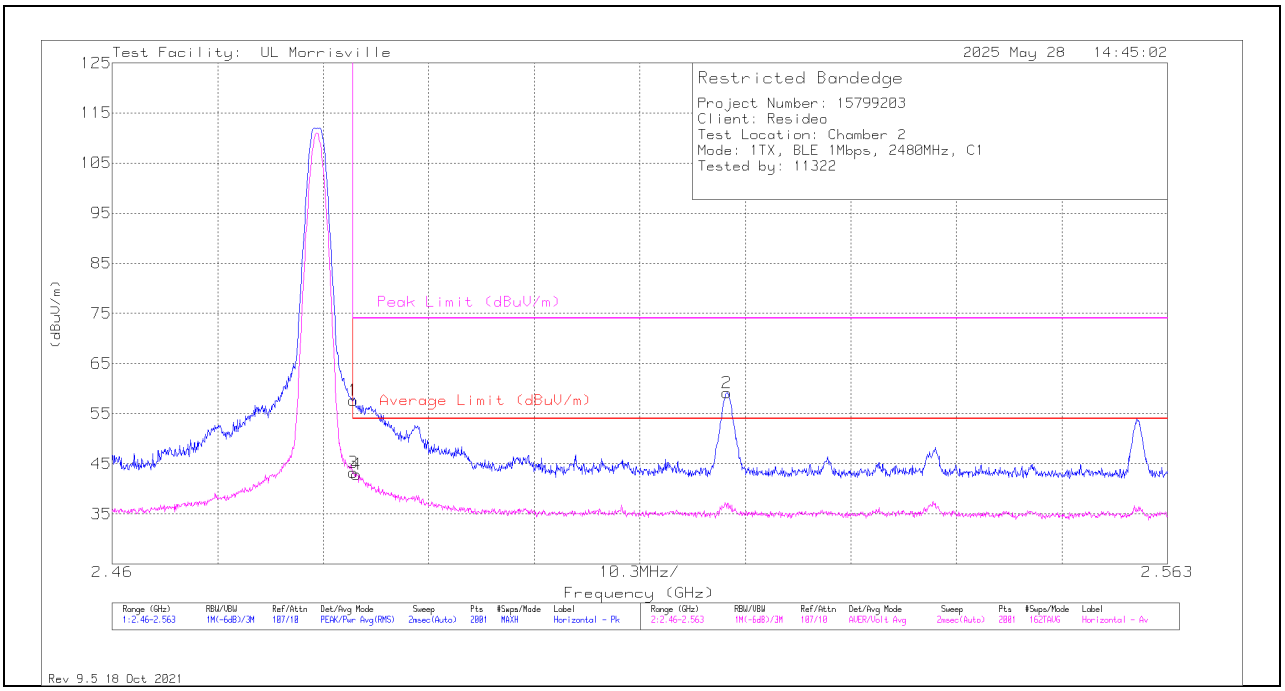
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	49.26	Pk	32.5	-24.1	0	57.66	-	-	74	-16.34	175	207	H
2	** 2.52	51.28	Pk	32.5	-24.6	0	59.18	-	-	74	-14.82	175	207	H
3	* ** 2.48354	30.65	ADV	32.5	-24.1	4.2	43.25	54	-10.75	-	-	175	207	H
4	* ** 2.48384	30.42	ADV	32.5	-24.2	4.2	42.92	54	-11.08	-	-	175	207	H

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Pk - Peak detector
ADV - Linear Voltage Average

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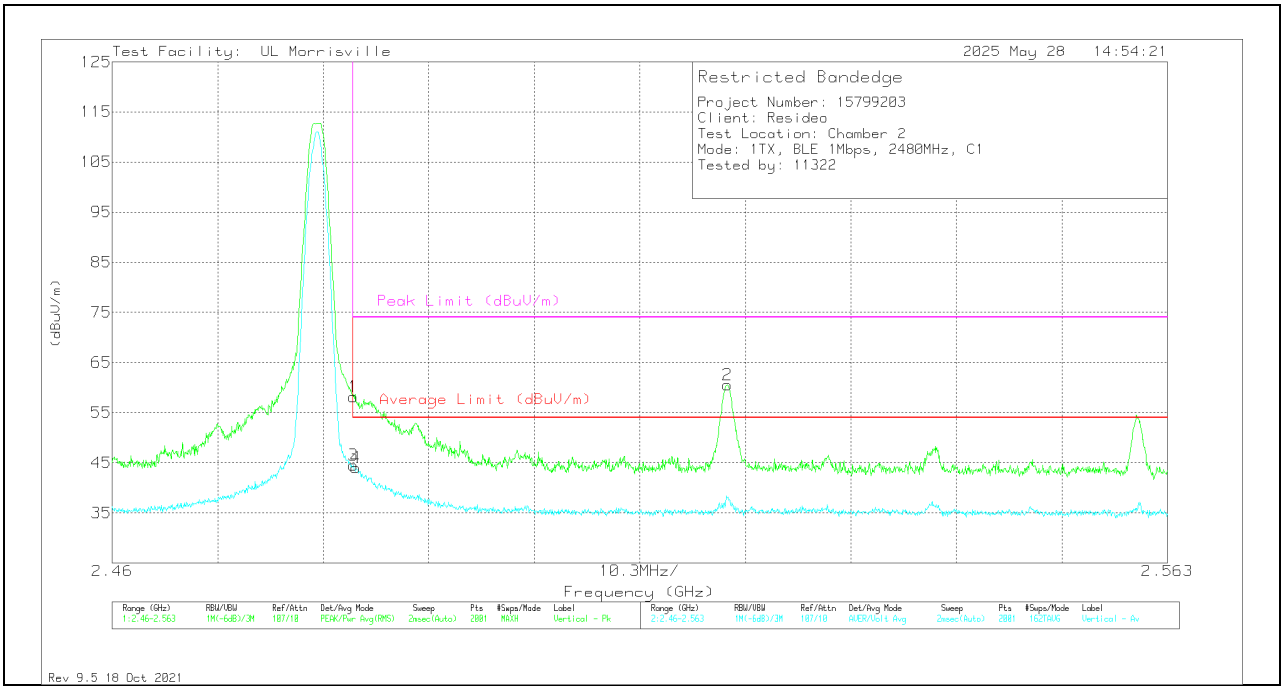
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	49.79	Pk	32.5	-24.1	0	58.19	-	-	74	-15.81	132	118	V
2	** 2.52005	52.62	Pk	32.5	-24.6	0	60.52	-	-	74	-13.48	132	118	V
3	* ** 2.48354	31.96	ADV	32.5	-24.1	4.2	44.56	54	-9.44	-	-	132	118	V
4	* ** 2.48379	31.37	ADV	32.5	-24.1	4.2	43.97	54	-10.03	-	-	132	118	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

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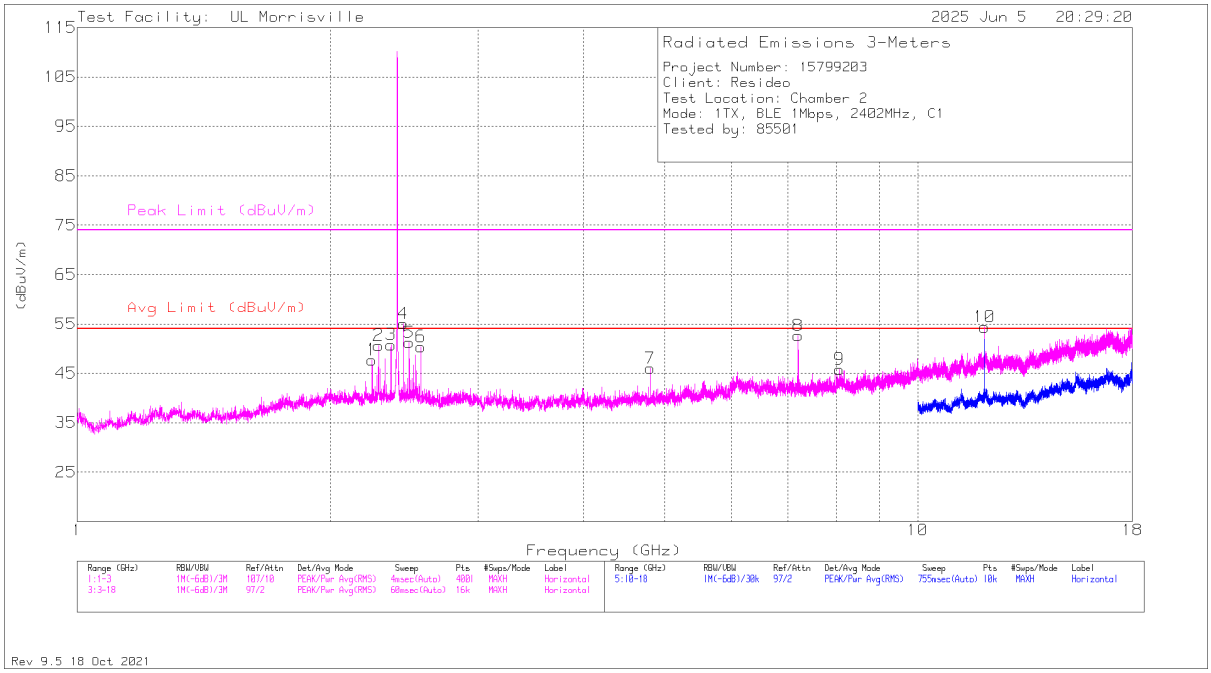
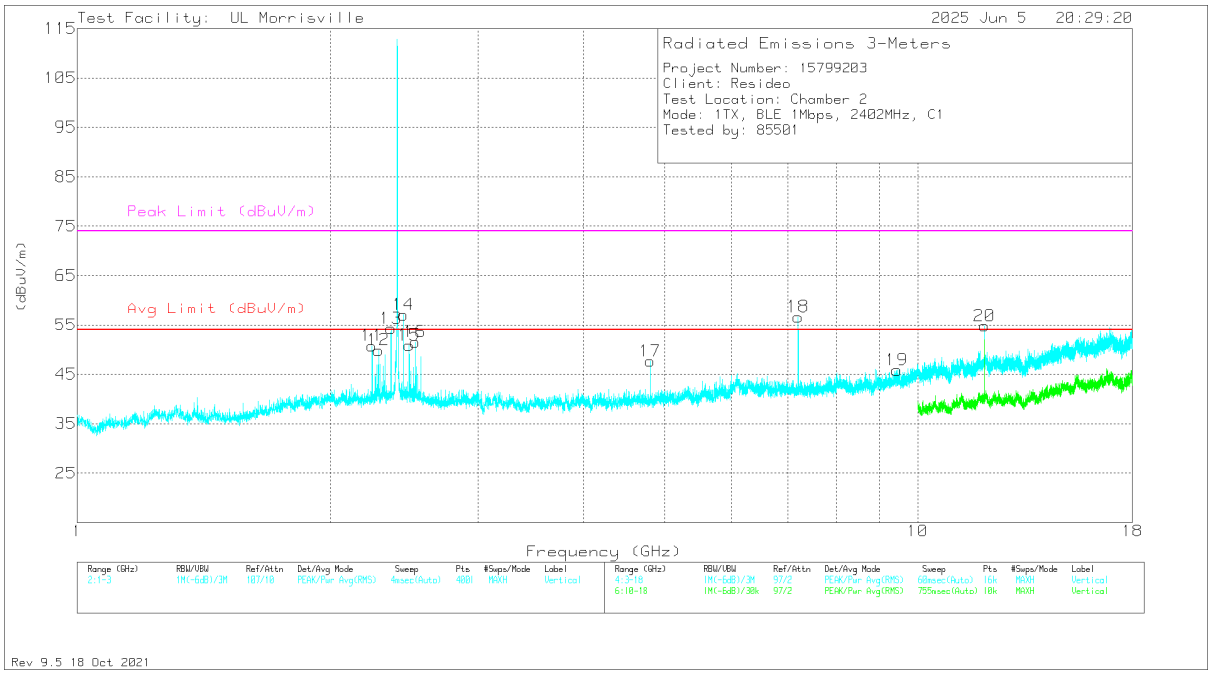
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.242	38.8	Pk	32	-23.1	0	47.7	54	-6.3	74	-26.3	0-360	101	H
2	* 2.28224	41.18	PK2	32.1	-23.1	0	50.18	-	-	74	-23.82	179	344	H
	* 2.28228	23.96	ADV	32.1	-23.1	4.2	37.16	54	-16.84	-	-	179	344	H
3	* 2.36196	46.04	PK2	32.1	-23.6	0	54.54	-	-	74	-19.46	15	180	H
	* 2.36177	23.4	ADV	32.1	-23.6	4.2	36.1	54	-17.9	-	-	15	180	H
11	* 2.24221	41.82	PK2	32	-23.1	0	50.72	-	-	74	-23.28	172	385	V
	* 2.24225	23.37	ADV	32	-23.1	4.2	36.47	54	-17.53	-	-	172	385	V
12	* 2.28217	44.01	PK2	32.1	-23.1	0	53.01	-	-	74	-20.99	112	283	V
	* 2.28217	25.55	ADV	32.1	-23.1	4.2	38.75	54	-15.25	-	-	112	283	V
13	* 2.36198	50.43	PK2	32.1	-23.6	0	58.93	-	-	74	-15.07	129	241	V
	* 2.36189	25.89	ADV	32.1	-23.6	4.2	38.59	54	-15.41	-	-	129	241	V
7	* 4.80375	55.69	Pk	34.2	-43.9	0	45.99	54	-8.01	74	-28.01	0-360	101	H
9	* 8.07	50.87	Pk	35.8	-40.9	0	45.77	54	-8.23	74	-28.23	0-360	101	H
10	* 12.00857	55.63	PK2	38.9	-38.8	0	55.73	-	-	74	-18.27	139	246	H
	* 12.00868	44.63	ADV	38.9	-38.8	4.2	48.93	54	-5.07	-	-	139	246	H
17	* 4.80281	57.36	Pk	34.2	-43.9	0	47.66	54	-6.34	74	-26.34	0-360	200	V
19	* 9.44625	49.95	Pk	36.3	-40.4	0	45.85	54	-8.15	74	-28.15	0-360	200	V
20	* 12.01117	57.22	PK2	38.9	-38.8	0	57.32	-	-	74	-16.68	215	272	V
	* 12.01114	45.72	ADV	38.9	-38.8	4.2	50.02	54	-3.98	-	-	215	272	V
4	2.442	46.33	Pk	32.4	-23.7	0	55.03	-	-	-	-	0-360	199	H
14	2.442	48.34	Pk	32.4	-23.7	0	57.04	-	-	-	-	0-360	101	V
5	2.4825	42.82	Pk	32.5	-24.1	0	51.22	-	-	-	-	0-360	101	H
15	2.4825	42.5	Pk	32.5	-24.1	0	50.9	-	-	-	-	0-360	101	V
16	2.5225	43.66	Pk	32.5	-24.6	0	51.56	-	-	-	-	0-360	101	V
6	2.5625	42.48	Pk	32.5	-24.6	0	50.38	-	-	-	-	0-360	101	H
8	7.20656	58.72	Pk	35.6	-41.7	0	52.62	-	-	-	-	0-360	200	H
18	7.20656	62.73	Pk	35.6	-41.7	0	56.63	-	-	-	-	0-360	200	V

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

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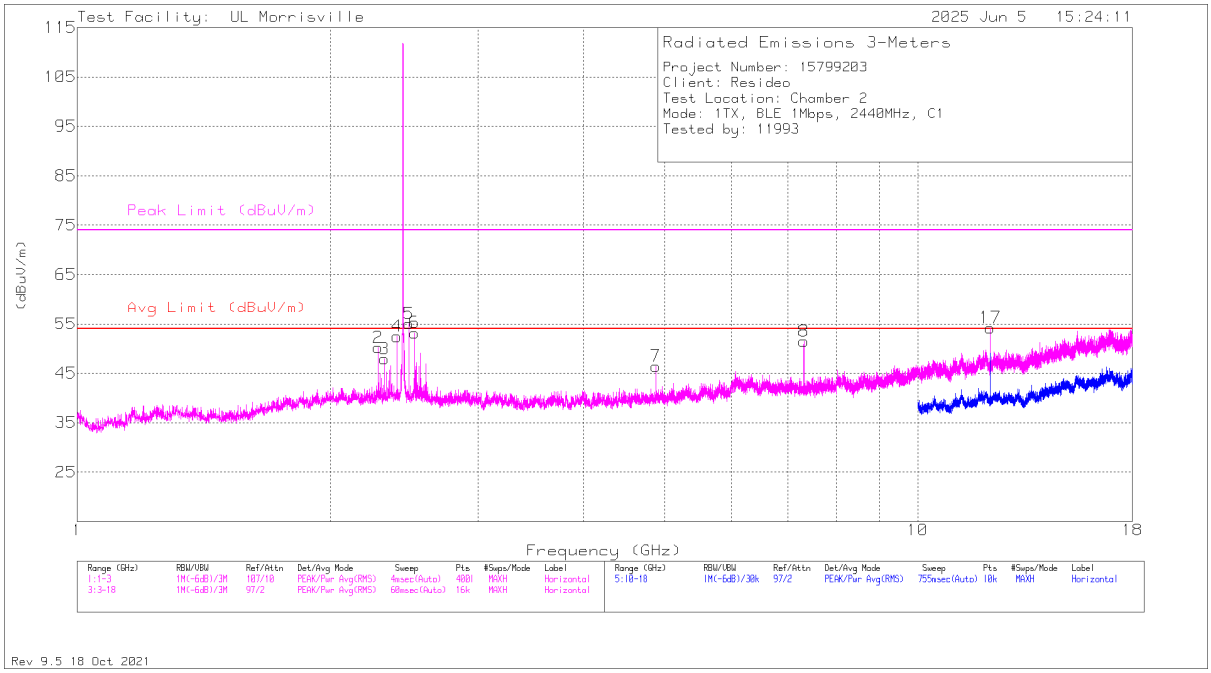
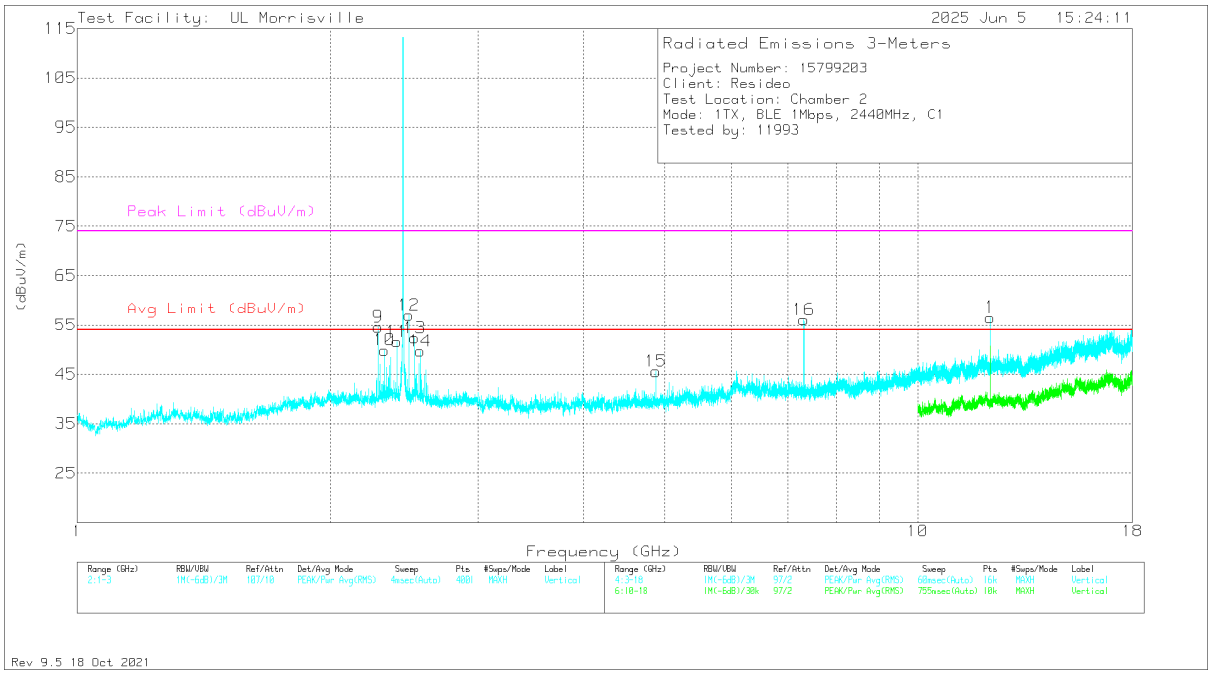
MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.27969	45.46	PK2	32.1	-23	0	54.56	-	-	74	-19.44	175	173	H
	* 2.27961	25.86	ADV	32.1	-23	4.2	39.16	54	-14.84	-	-	175	173	H
3	* 2.32	39.21	Pk	32.1	-23.4	0	47.91	54	-6.09	74	-26.09	0-360	200	H
9	* 2.27976	47.37	PK2	32.1	-23	0	56.47	-	-	74	-17.53	143	320	V
	* 2.27991	27.65	ADV	32.1	-23	4.2	40.95	54	-13.05	-	-	143	320	V
10	* 2.31982	43.17	PK2	32.1	-23.4	0	51.87	-	-	74	-22.13	134	159	V
	* 2.31947	26.88	ADV	32.1	-23.4	4.2	39.78	54	-14.22	-	-	134	159	V
7	* 4.87969	56.04	Pk	34.1	-43.7	0	46.44	54	-7.56	74	-27.56	0-360	200	H
8	* 7.31905	59.27	PK2	35.6	-41.8	0	53.07	-	-	74	-20.93	164	258	H
	* 7.31919	48.83	ADV	35.6	-41.8	4.2	46.83	54	-7.17	-	-	164	258	H
17	* 12.2011	55.08	PK2	38.9	-38.4	0	55.58	-	-	74	-18.42	139	122	H
	* 12.20105	42.81	ADV	38.9	-38.4	4.2	47.51	54	-6.49	-	-	139	122	H
1	* 12.20113	58.26	PK2	38.9	-38.4	0	58.76	-	-	74	-15.24	197	162	V
	* 12.19885	47.03	ADV	38.9	-38.4	4.2	51.73	54	-2.27	-	-	197	162	V
15	* 4.87969	55.19	Pk	34.1	-43.7	0	45.59	54	-8.41	74	-28.41	0-360	101	V
16	* 7.32075	63.88	PK2	35.6	-41.8	0	57.68	-	-	74	-16.32	210	186	V
	* 7.31938	54.65	ADV	35.6	-41.8	4.2	52.65	54	-1.35	-	-	210	186	V
4	2.4	44.06	Pk	32.3	-23.9	0	52.46	-	-	-	-	0-360	101	H
11	2.4	43.2	Pk	32.3	-23.9	0	51.6	-	-	-	-	0-360	101	V
5	2.4805	46.64	Pk	32.5	-24.1	0	55.04	-	-	-	-	0-360	101	H
12	2.4805	48.55	Pk	32.5	-24.1	0	56.95	-	-	-	-	0-360	101	V
6	2.52	45.31	Pk	32.5	-24.6	0	53.21	-	-	-	-	0-360	101	H
13	2.5205	44.46	Pk	32.5	-24.6	0	52.36	-	-	-	-	0-360	200	V
14	2.56	41.71	Pk	32.5	-24.5	0	49.71	-	-	-	-	0-360	101	V

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

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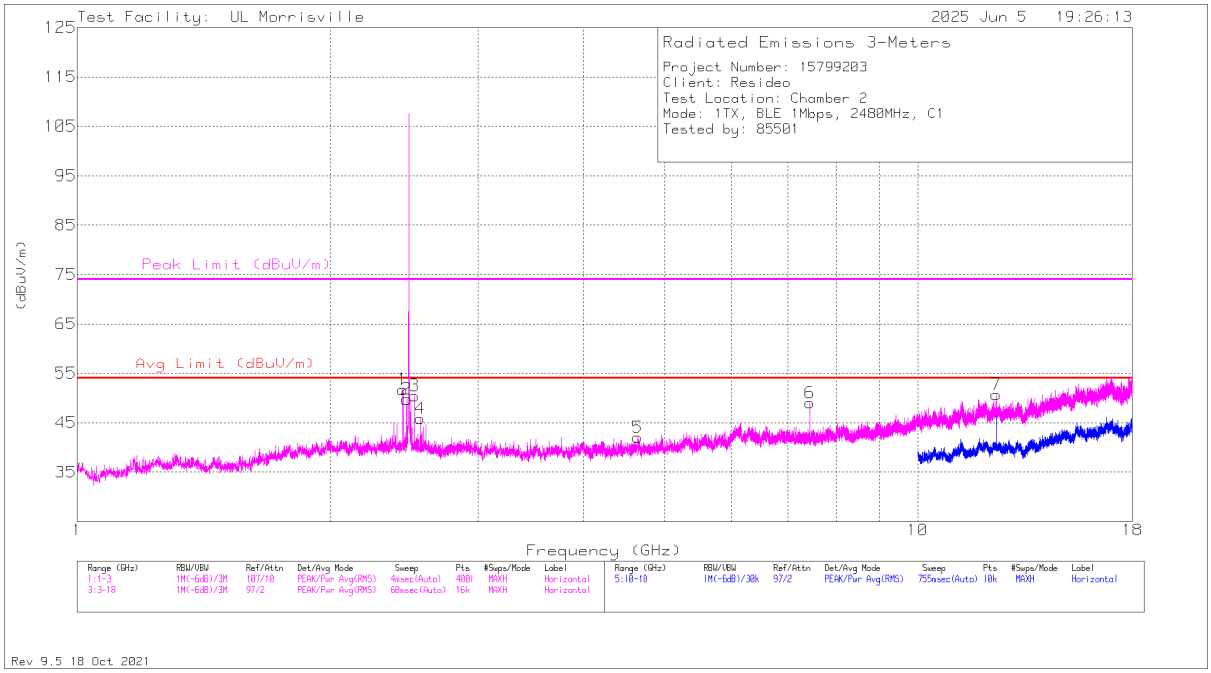
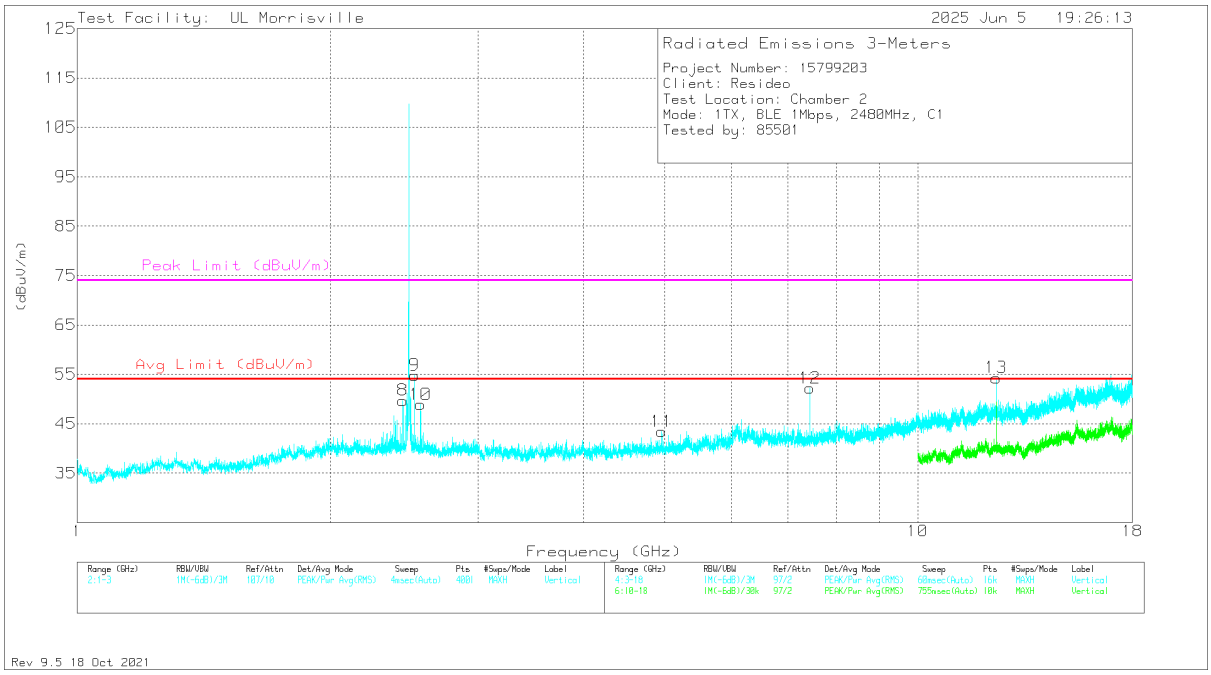
HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.64531	51.81	Pk	34.1	-43.9	0	42.01	54	-11.99	74	-31.99	0-360	101	H
6	* 7.43913	57.07	PK2	35.6	-41.1	0	51.57	-	-	74	-22.43	118	189	H
	* 7.44043	45.85	ADV	35.6	-41.1	4.2	44.55	54	-9.45	-	-	118	189	H
7	* 12.40118	53.22	PK2	38.8	-38.3	0	53.72	-	-	74	-20.28	161	124	H
	* 12.39881	40.99	ADV	38.8	-38.2	4.2	45.79	54	-8.21	-	-	161	124	H
11	* 4.95938	53.2	Pk	34	-43.8	0	43.4	54	-10.6	74	-30.6	0-360	199	V
12	* 7.43925	59.74	PK2	35.6	-41.1	0	54.24	-	-	74	-19.76	240	171	V
	* 7.43935	49.43	ADV	35.6	-41.1	4.2	48.13	54	-5.87	-	-	240	171	V
13	* 12.39856	57.62	PK2	38.8	-38.2	0	58.22	-	-	74	-15.78	201	156	V
	* 12.39881	46.78	ADV	38.8	-38.2	4.2	51.58	54	-2.42	-	-	201	156	V
1	2.44	42.94	Pk	32.4	-23.6	0	51.74	-	-	-	-	0-360	101	H
8	2.44	40.91	Pk	32.4	-23.6	0	49.71	-	-	-	-	0-360	199	V
2	2.466	41.45	Pk	32.4	-24.1	0	49.75	-	-	-	-	0-360	101	H
3	2.52	42.56	Pk	32.5	-24.6	0	50.46	-	-	-	-	0-360	101	H
9	2.52	46.88	Pk	32.5	-24.6	0	54.78	-	-	-	-	0-360	101	V
4	2.56	37.83	Pk	32.5	-24.5	0	45.83	-	-	-	-	0-360	101	H
10	2.5605	40.87	Pk	32.5	-24.5	0	48.87	-	-	-	-	0-360	101	V

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

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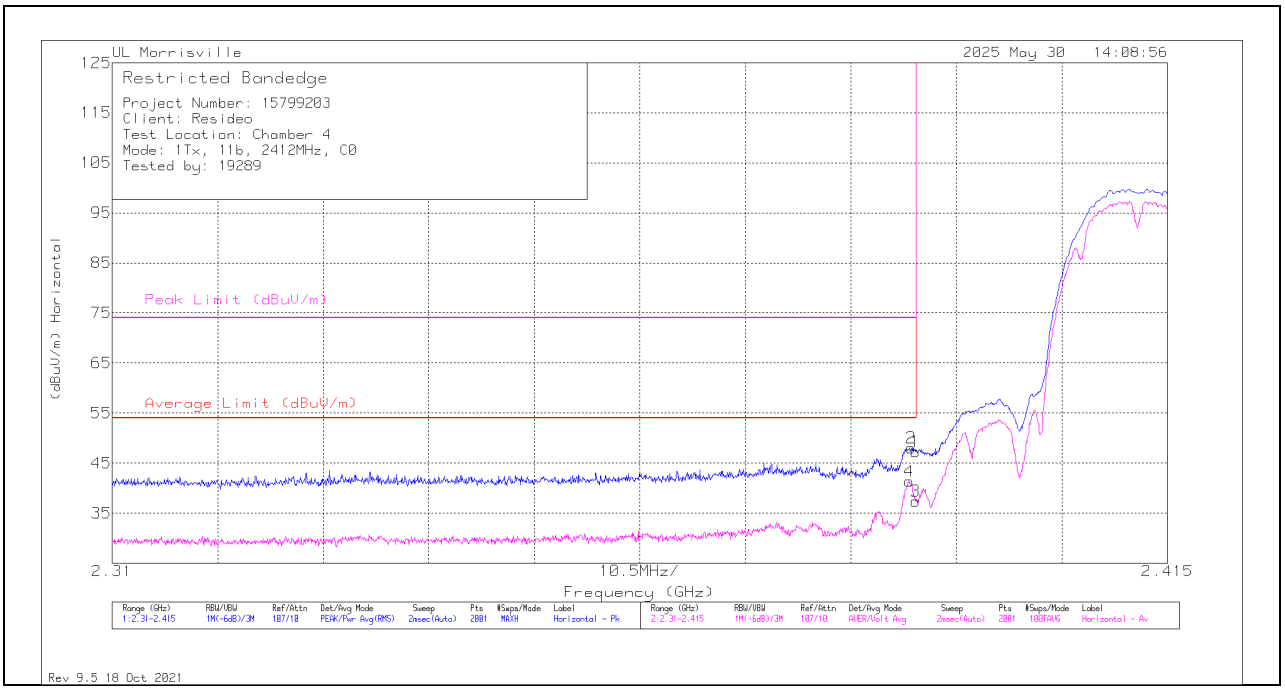
9.1.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 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	* ** 2.38996	38.52	Pk	32	-23.2	47.32	-	-	74	-26.68	152	284	H
2	* ** 2.38949	39.23	Pk	32	-23.2	48.03	-	-	74	-25.97	152	284	H
3	* ** 2.38996	28.56	ADV	32	-23.2	37.36	54	-16.64	-	-	152	284	H
4	* ** 2.38928	32.54	ADV	32	-23.2	41.34	54	-12.66	-	-	152	284	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

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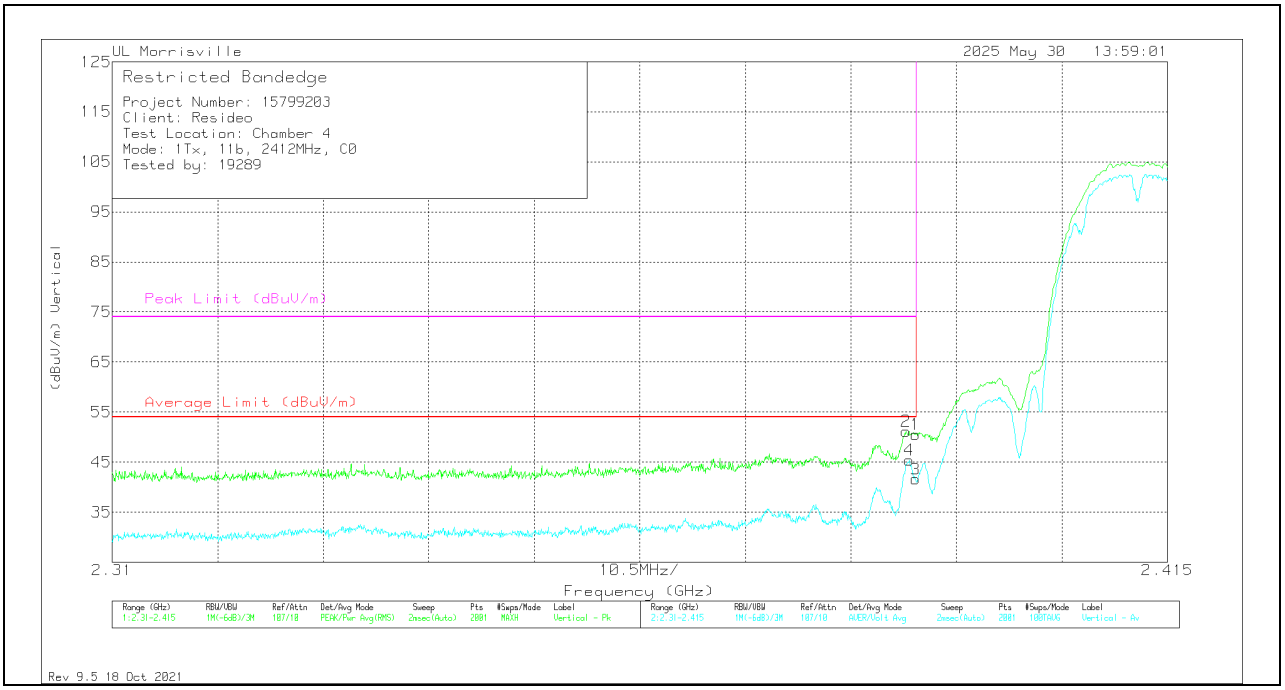
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 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	* ** 2.38996	41.78	Pk	32	-23.2	50.58	-	-	74	-23.42	302	137	V
2	* ** 2.38901	42.31	Pk	32	-23.2	51.11	-	-	74	-22.89	302	137	V
3	* ** 2.38996	32.78	ADV	32	-23.2	41.58	54	-12.42	-	-	302	137	V
4	* ** 2.38933	36.6	ADV	32	-23.2	45.4	54	-8.6	-	-	302	137	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

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