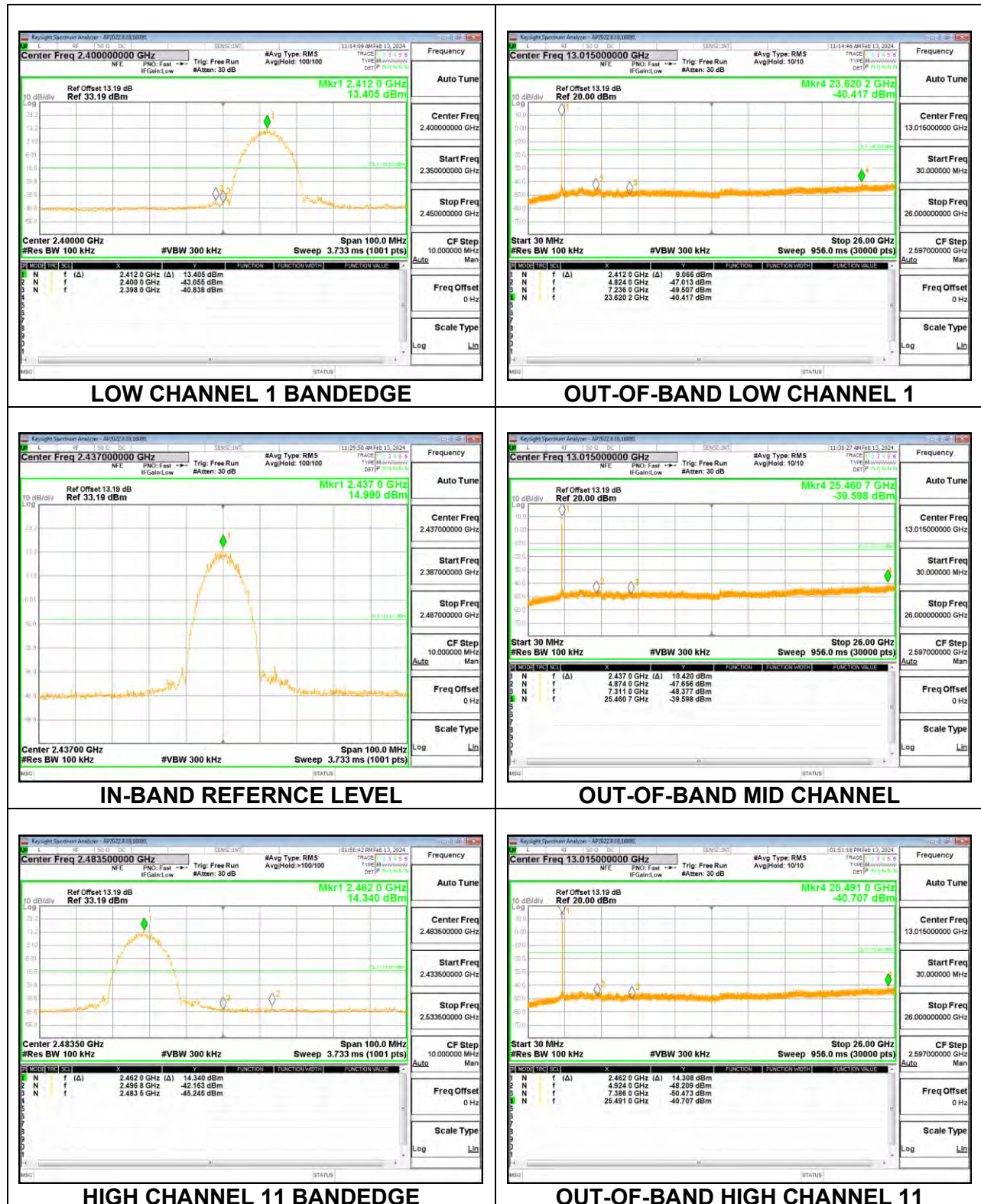
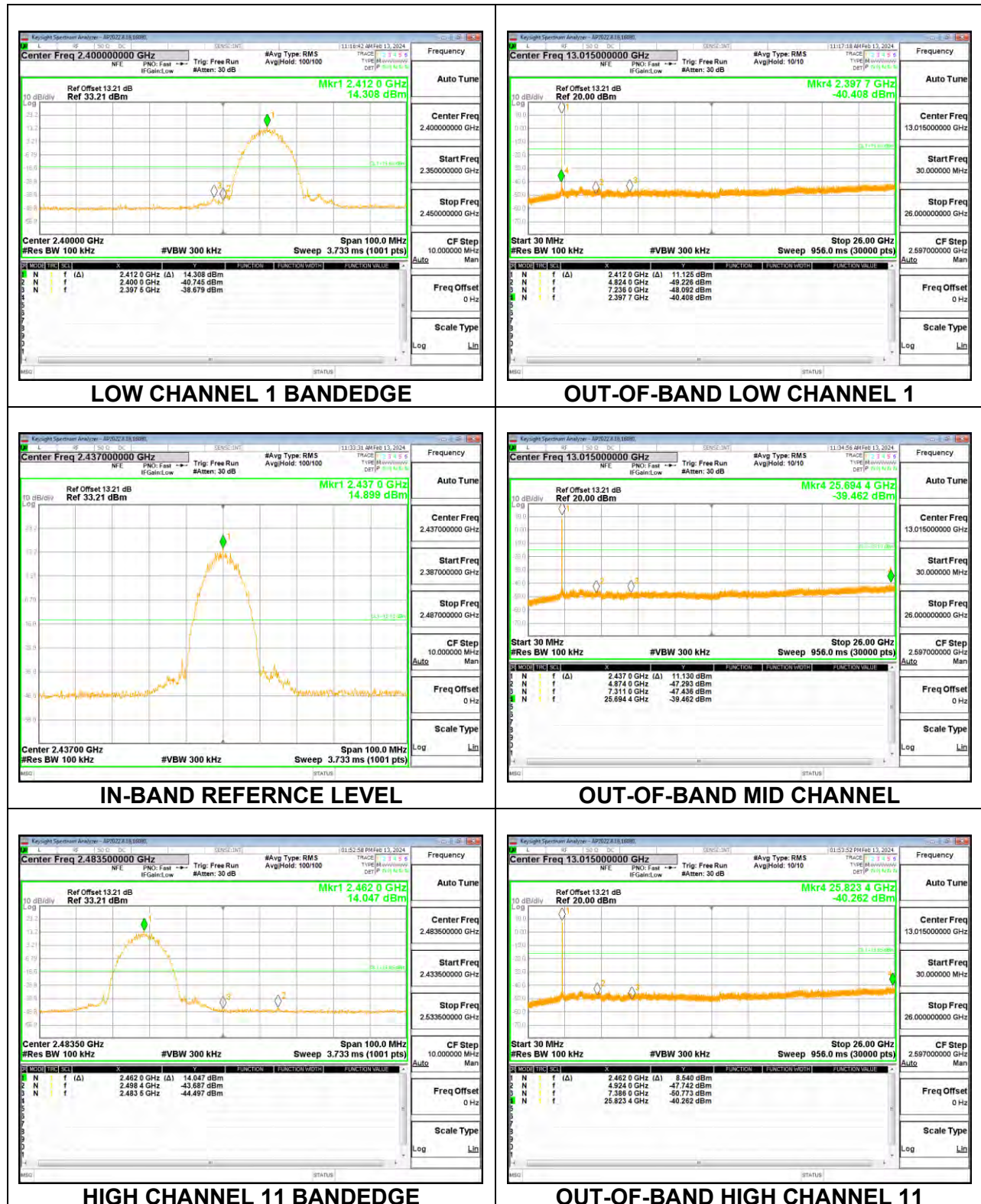


Chain 2



Chain 3

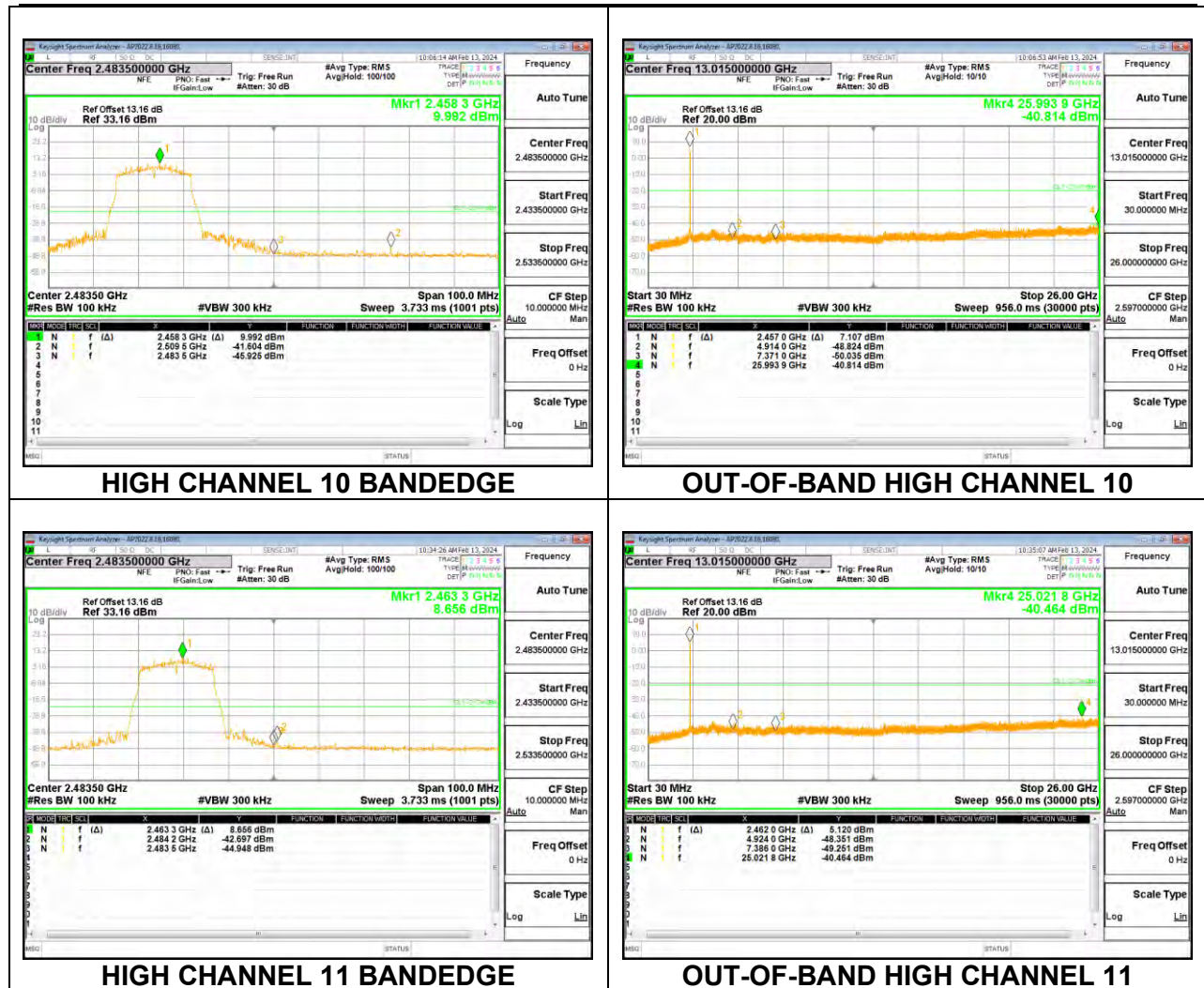


9.6.2. 802.11g MODE

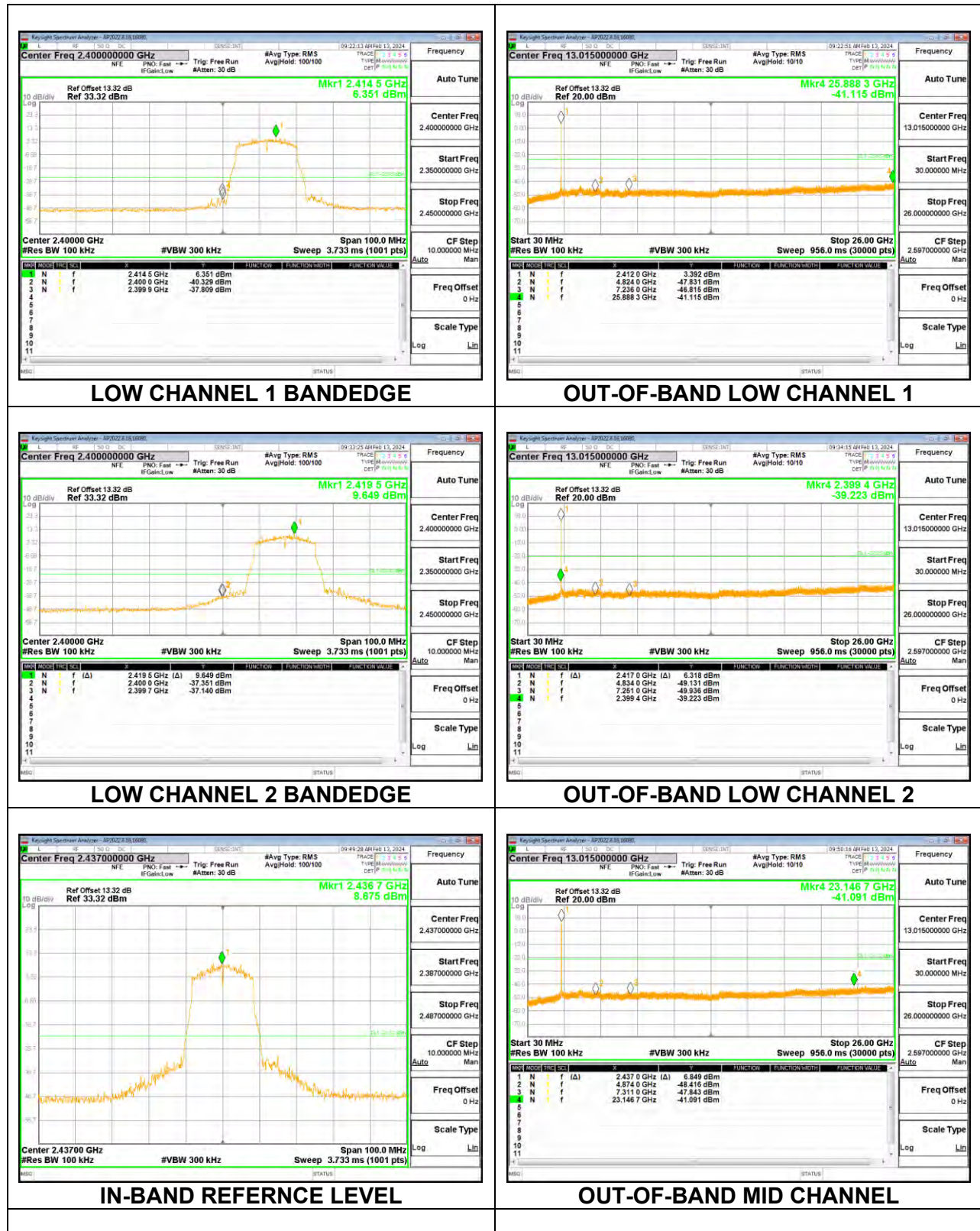
4TX Antenna

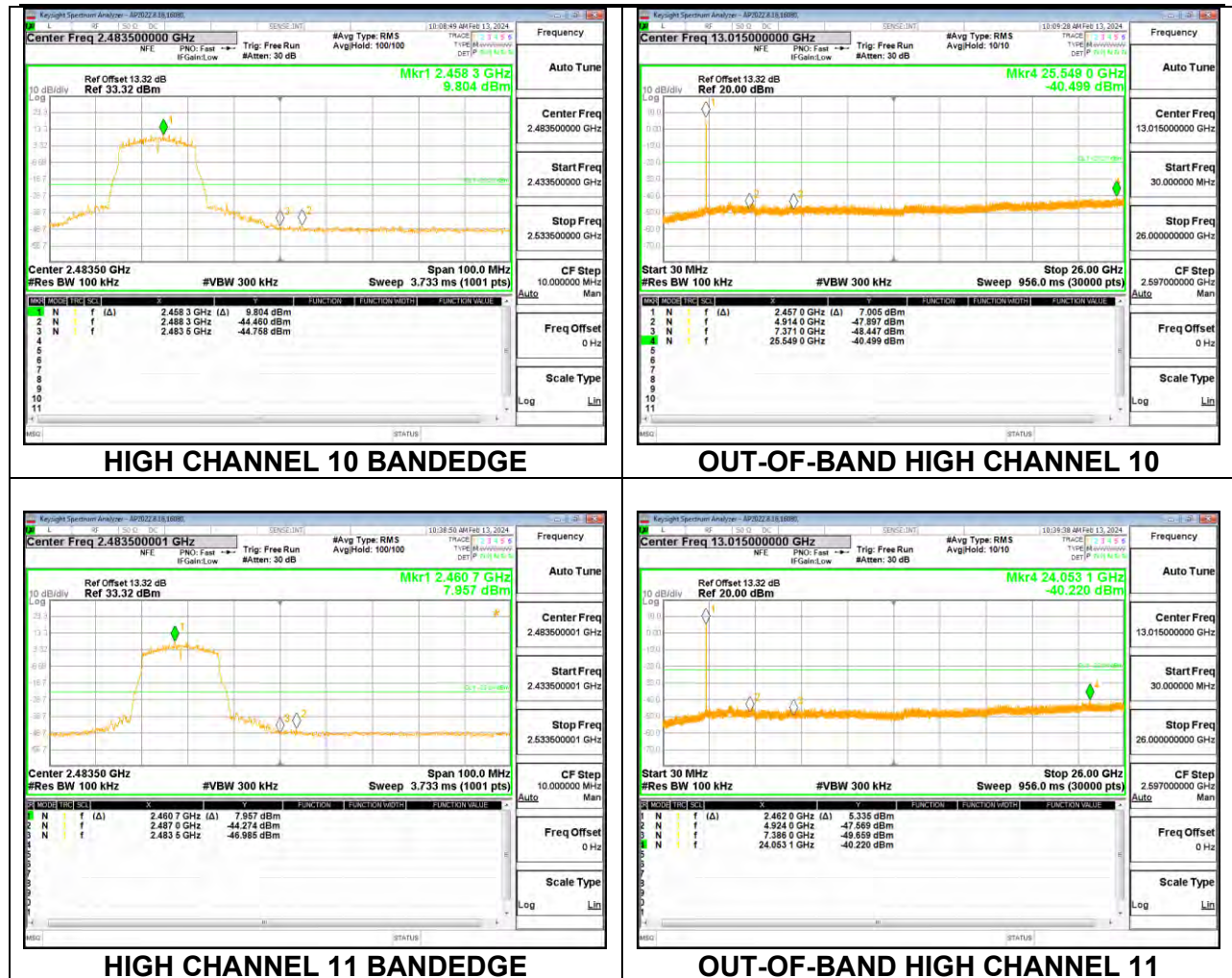
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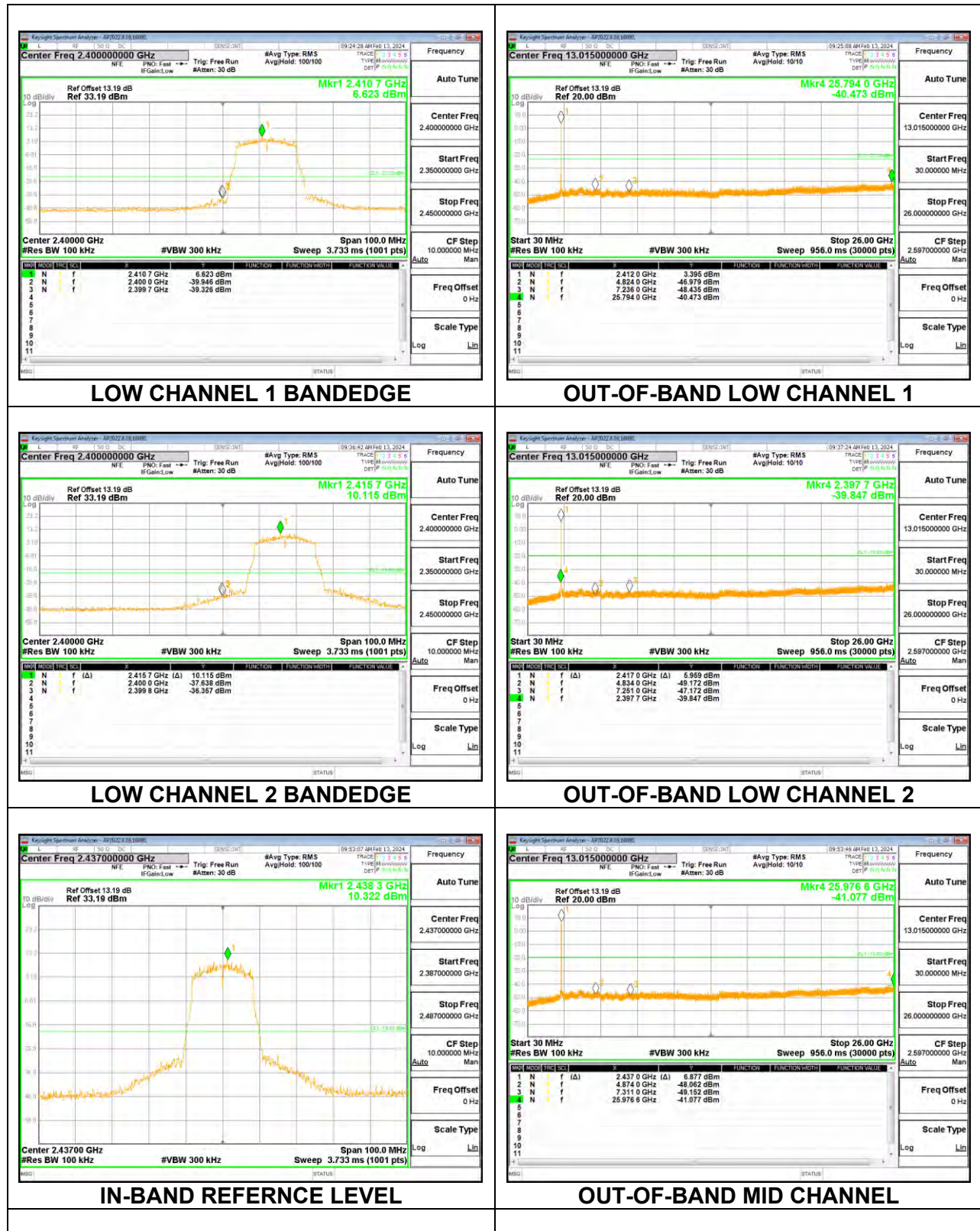


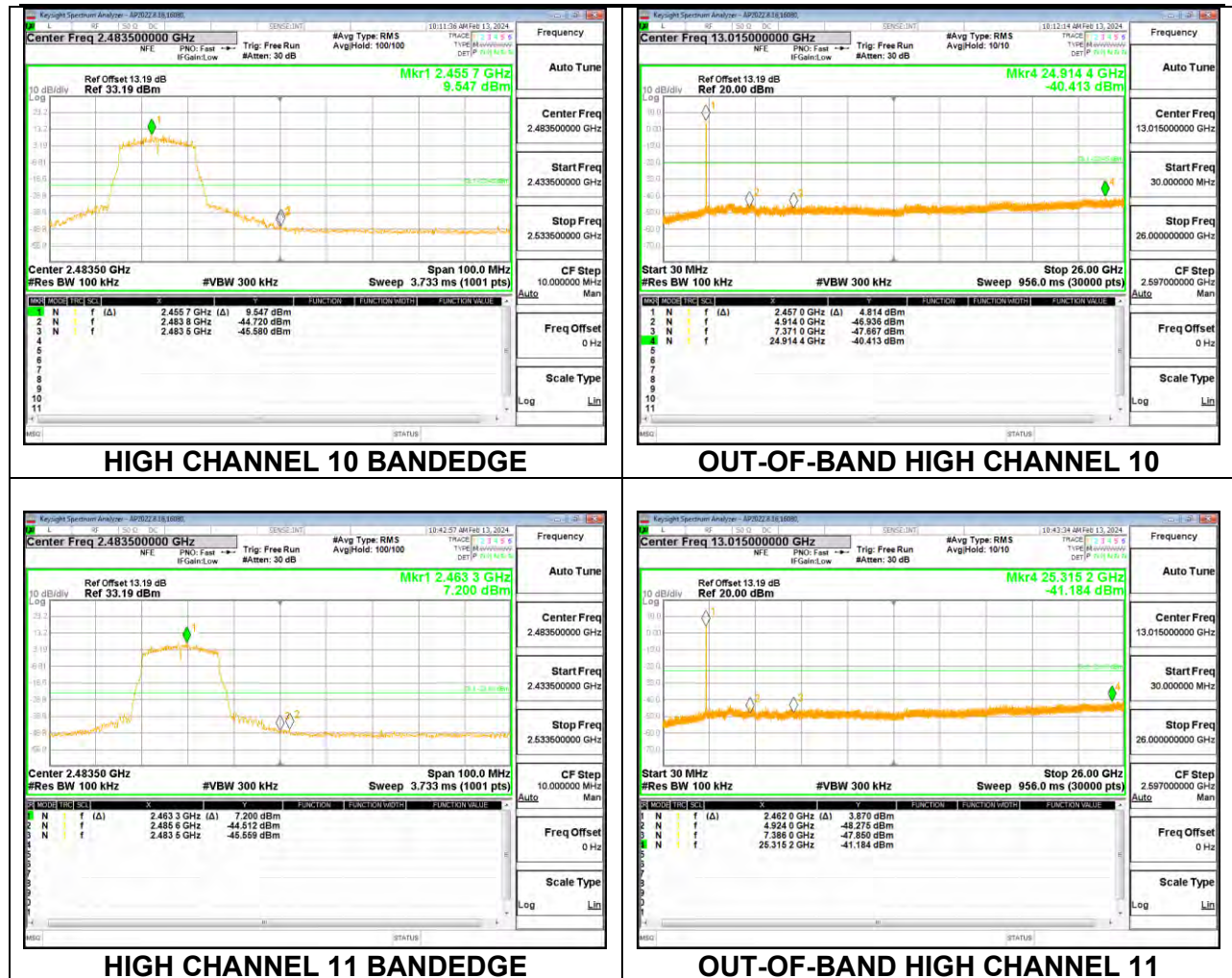
Chain 1



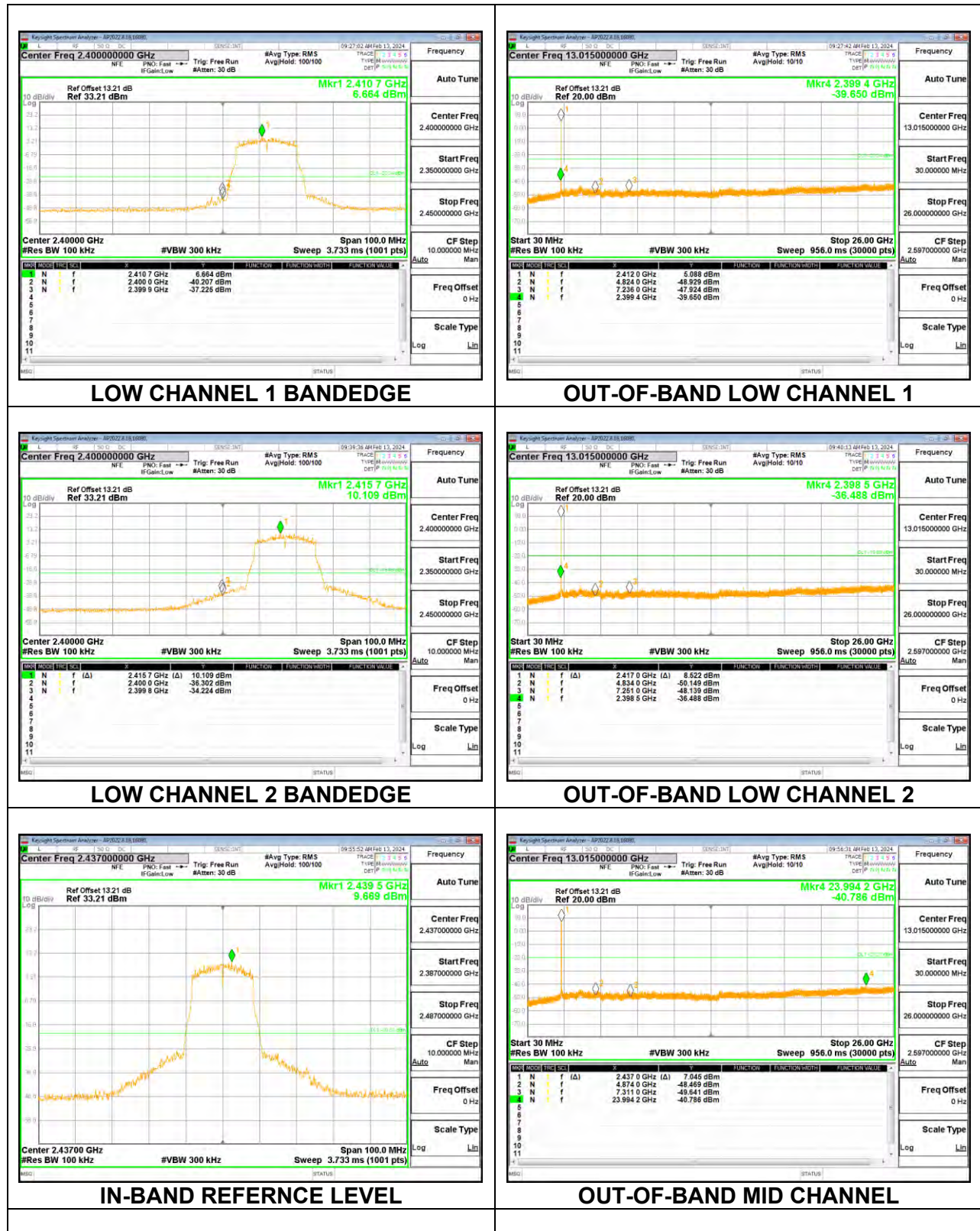


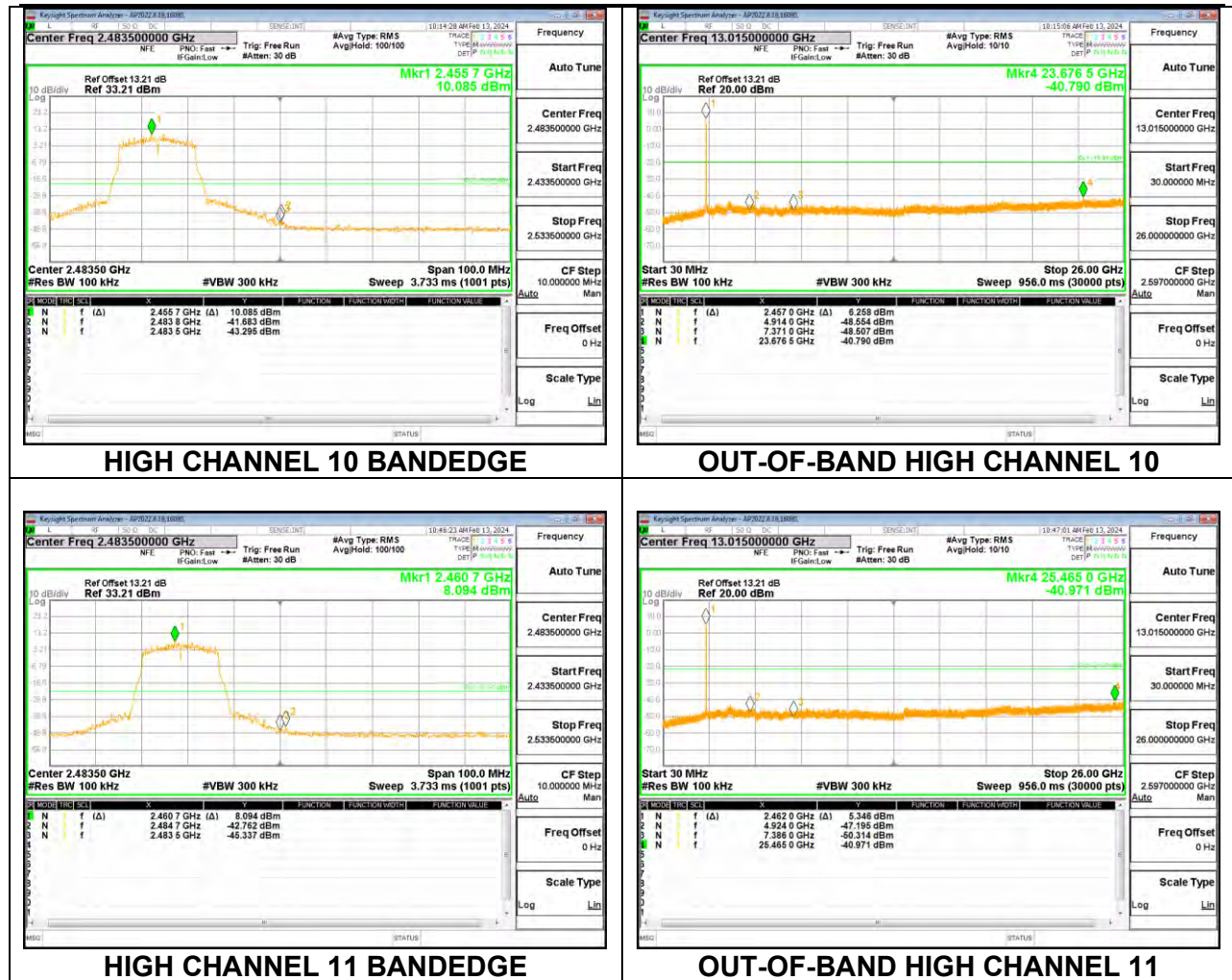
Chain 2





Chain 3

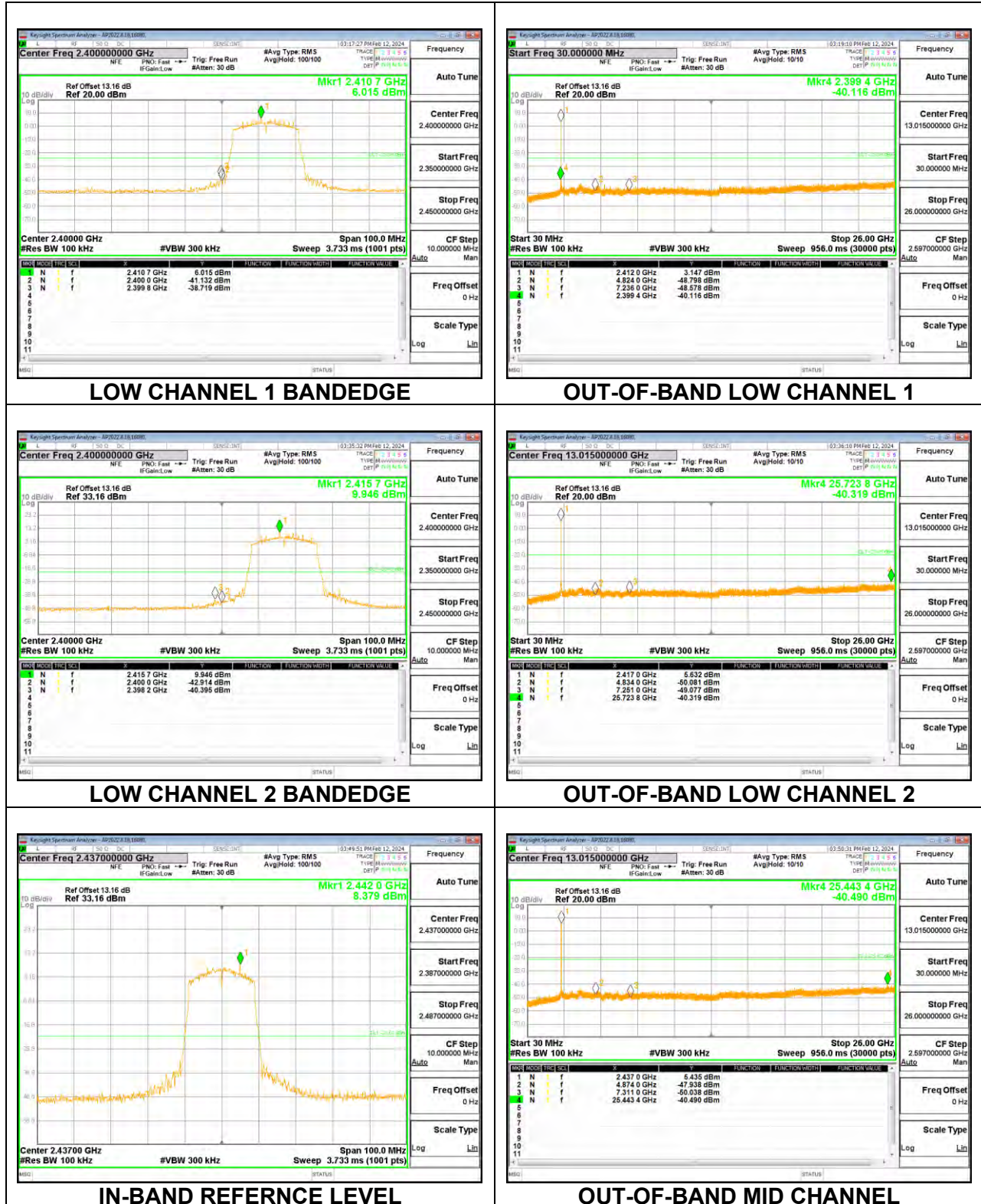


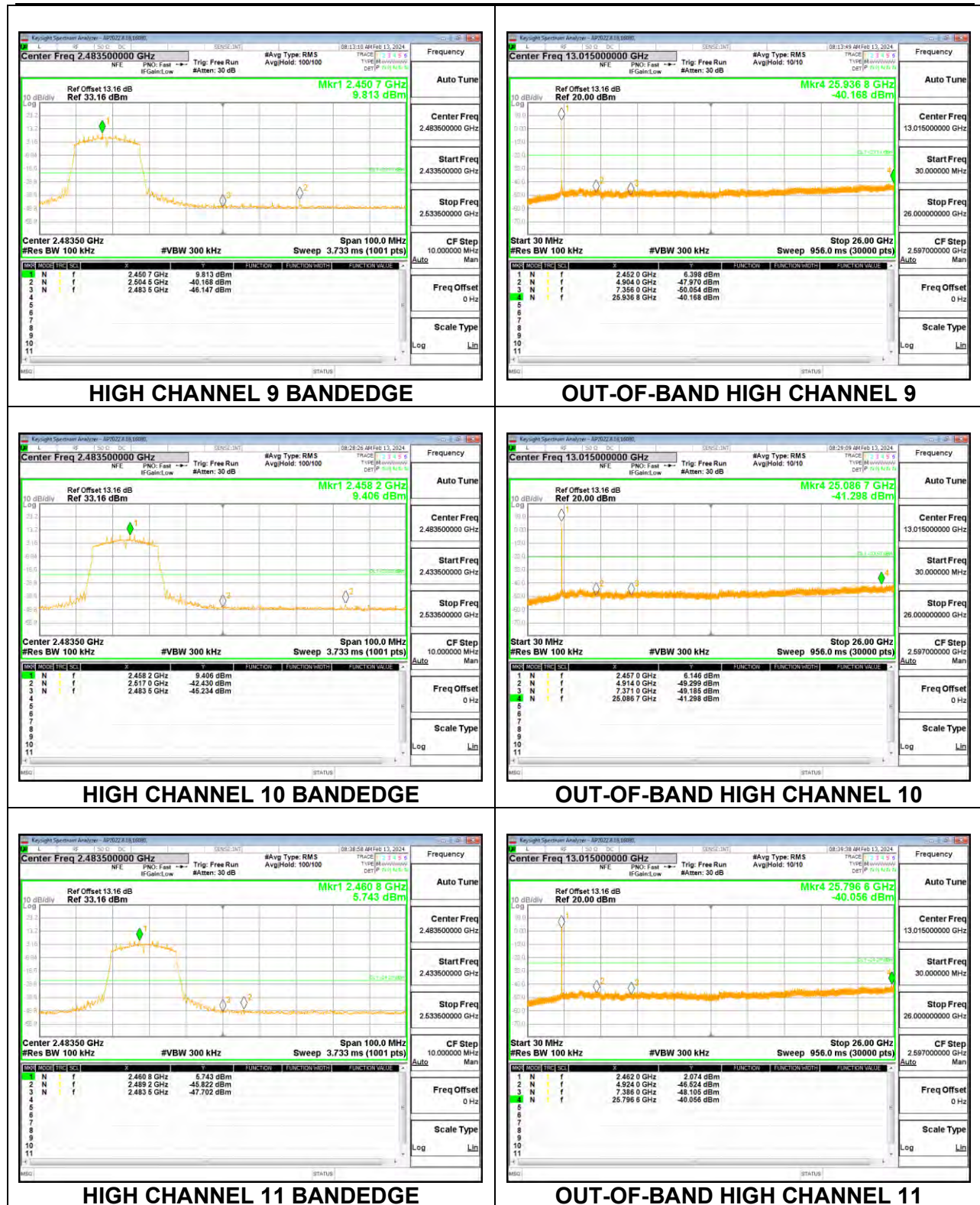


9.6.3. 802.11n HT20 MODE

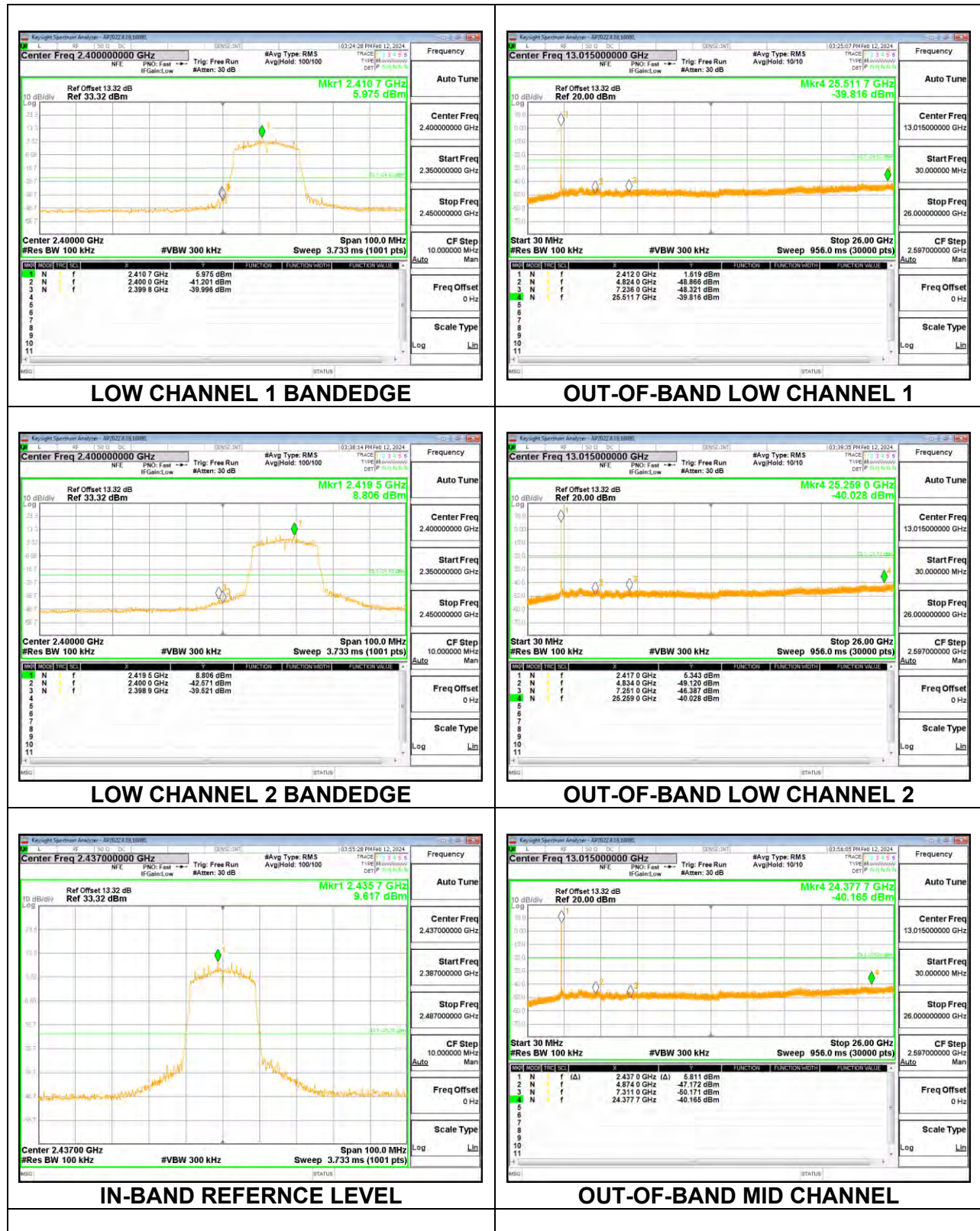
4TX Antenna

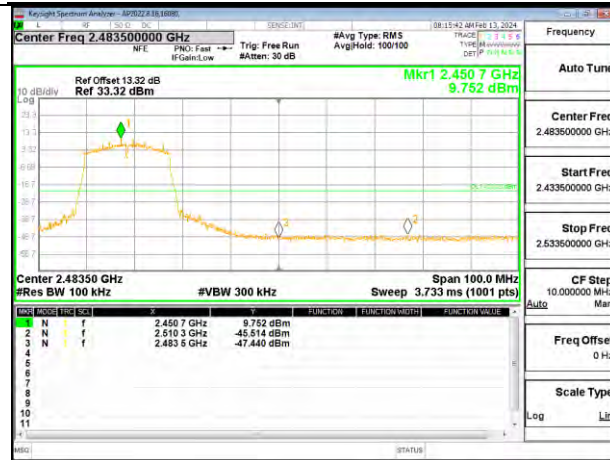
Chain 0



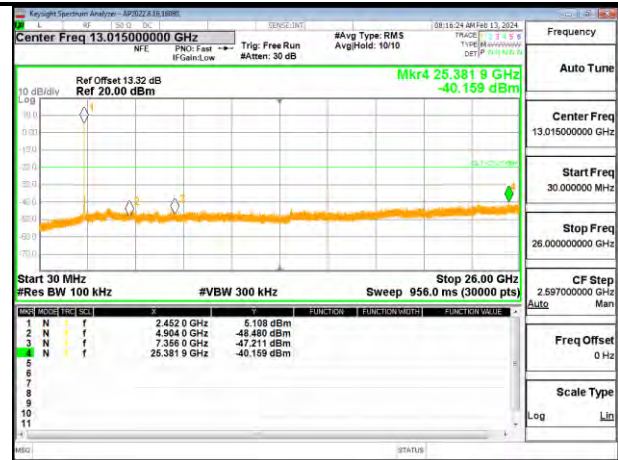


Chain 1

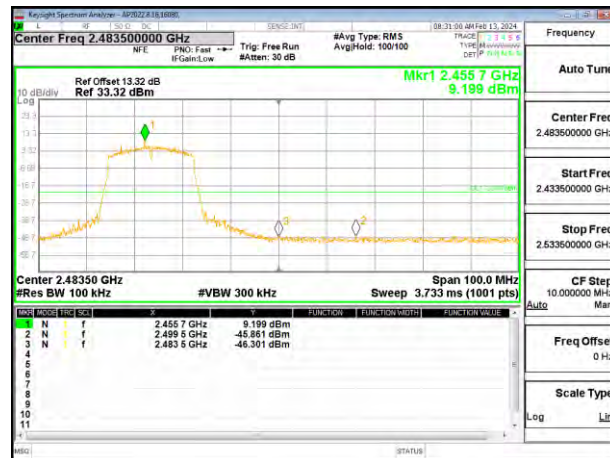




HIGH CHANNEL 9 BANDEDGE



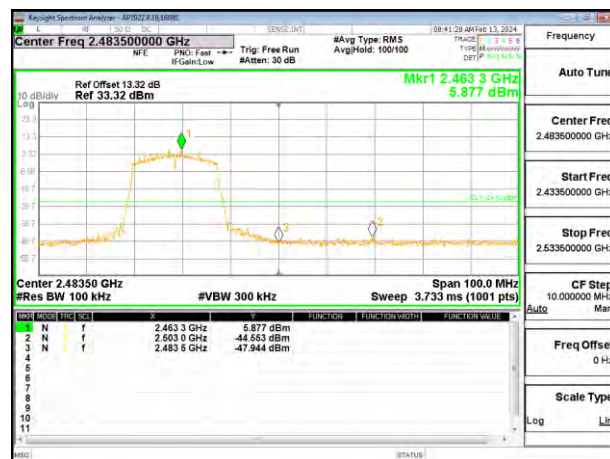
OUT-OF-BAND HIGH CHANNEL 9



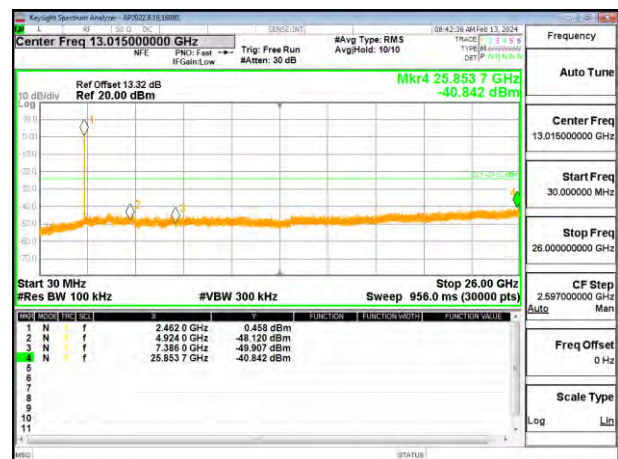
HIGH CHANNEL 10 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 10

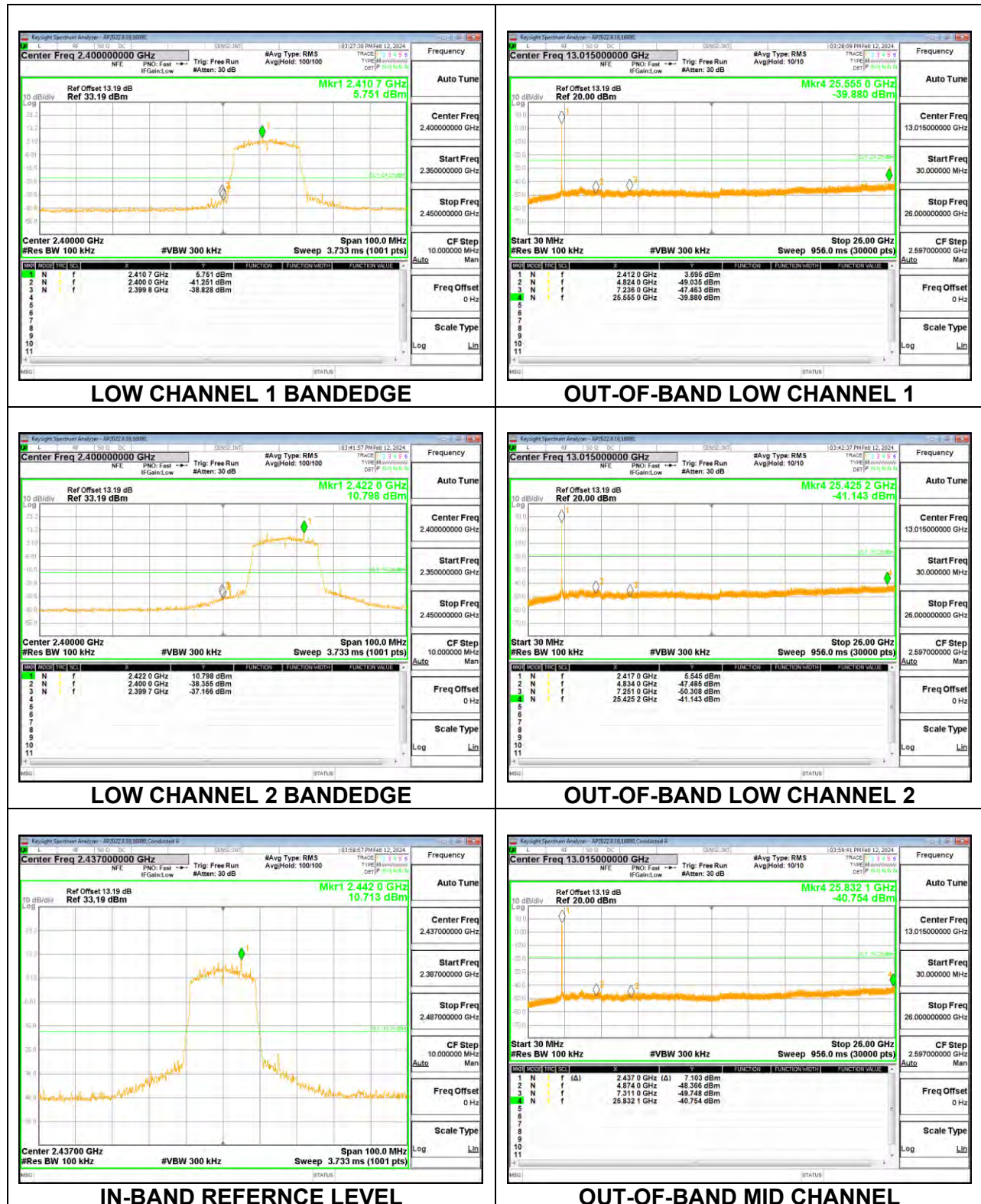


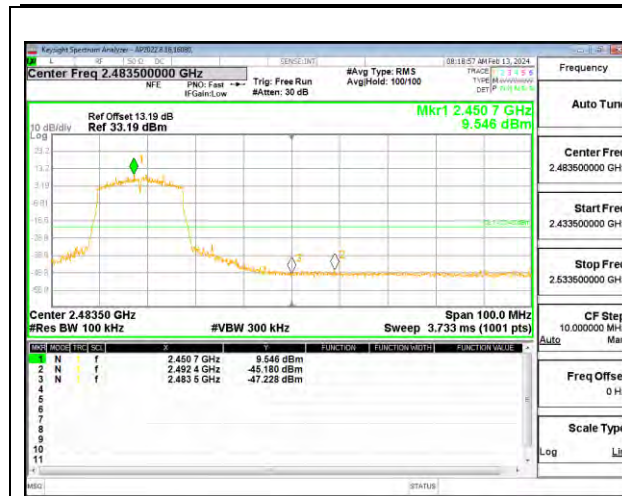
HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

Chain 2

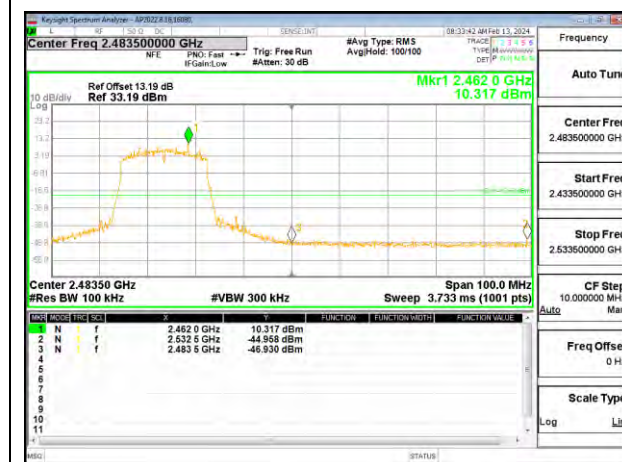




HIGH CHANNEL 9 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 9



HIGH CHANNEL 10 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 10

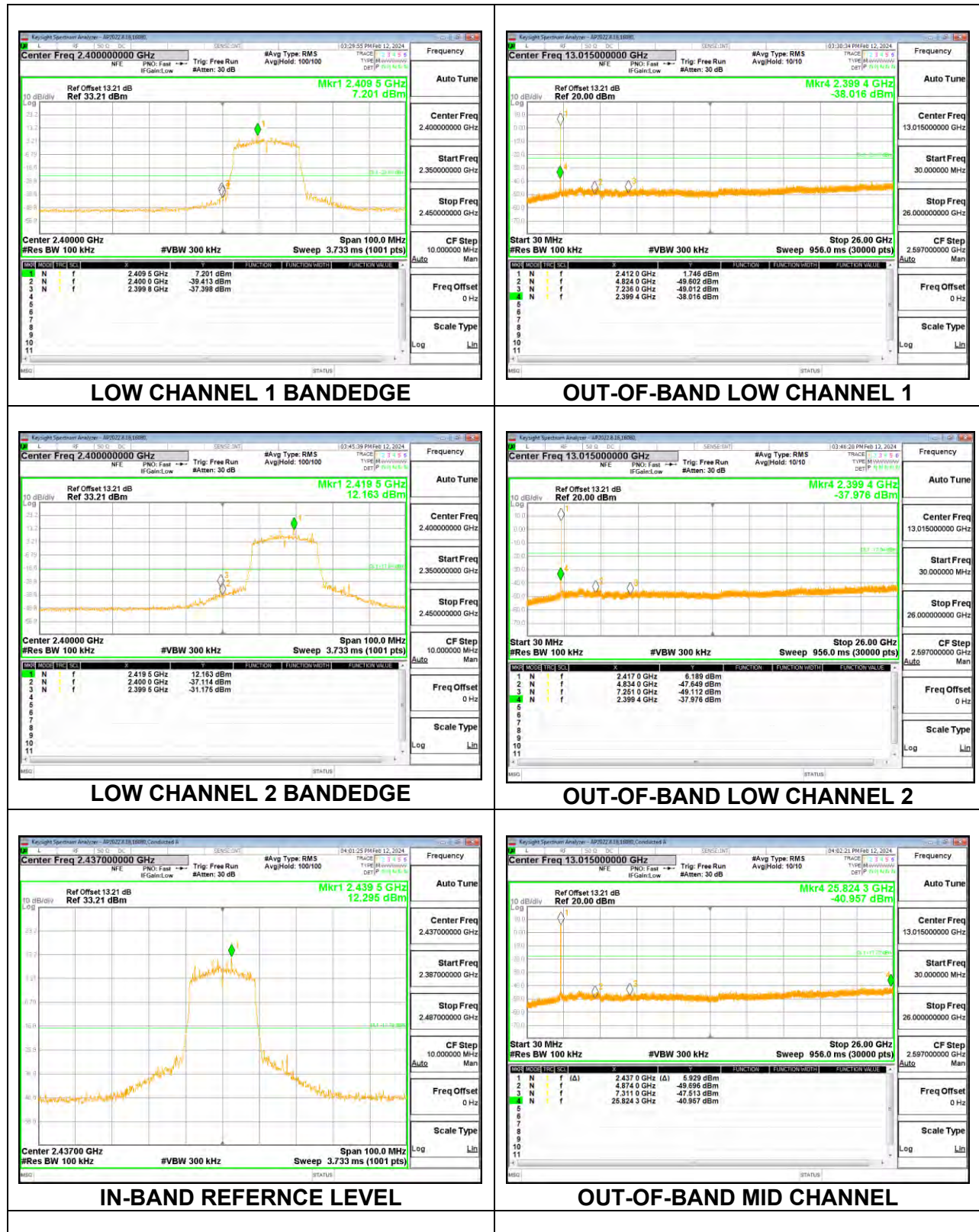


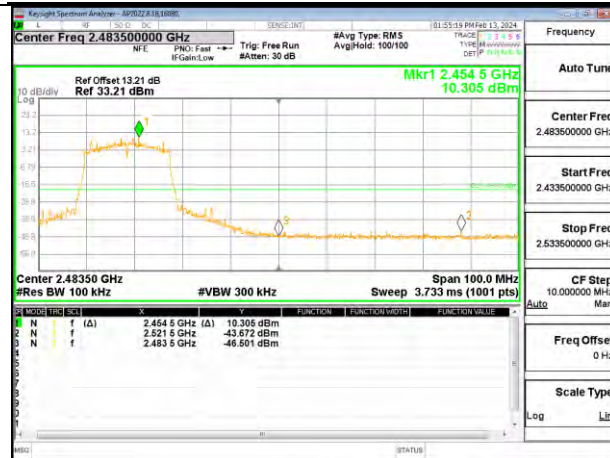
HIGH CHANNEL 11 BANDEDGE



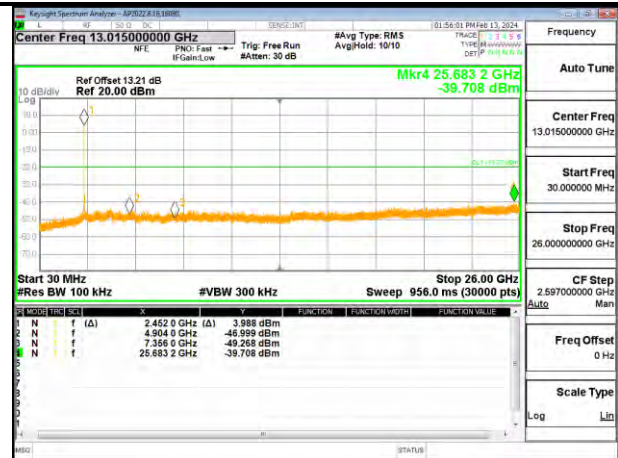
OUT-OF-BAND HIGH CHANNEL 11

Chain 3

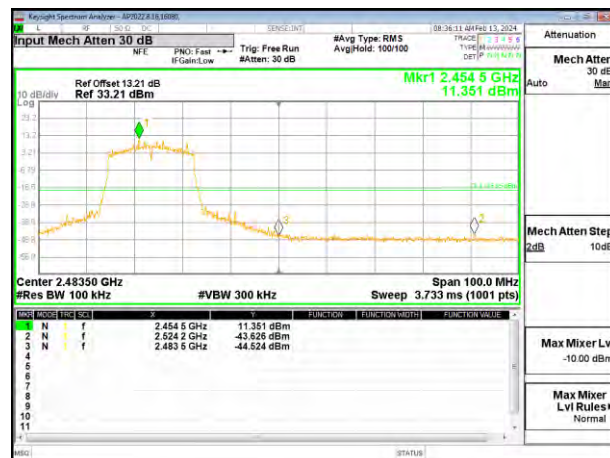




HIGH CHANNEL 9 BANDEDGE



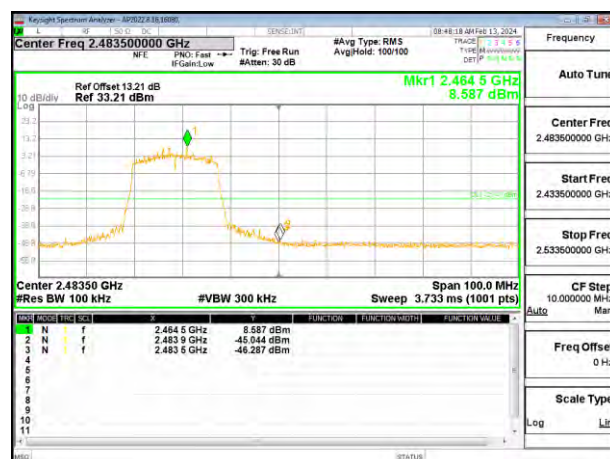
OUT-OF-BAND HIGH CHANNEL 9



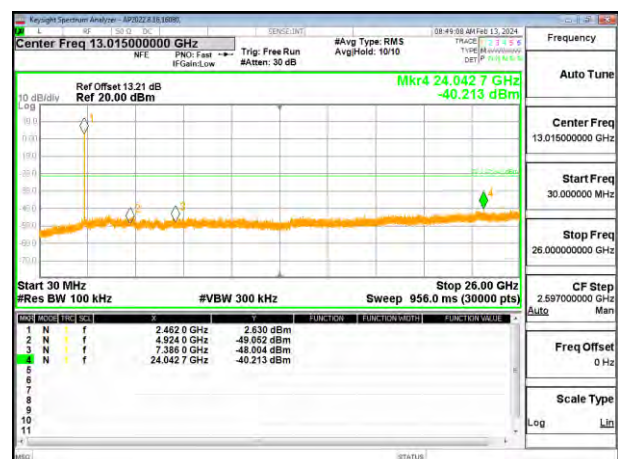
HIGH CHANNEL 10 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 10



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

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 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 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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

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.

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 reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

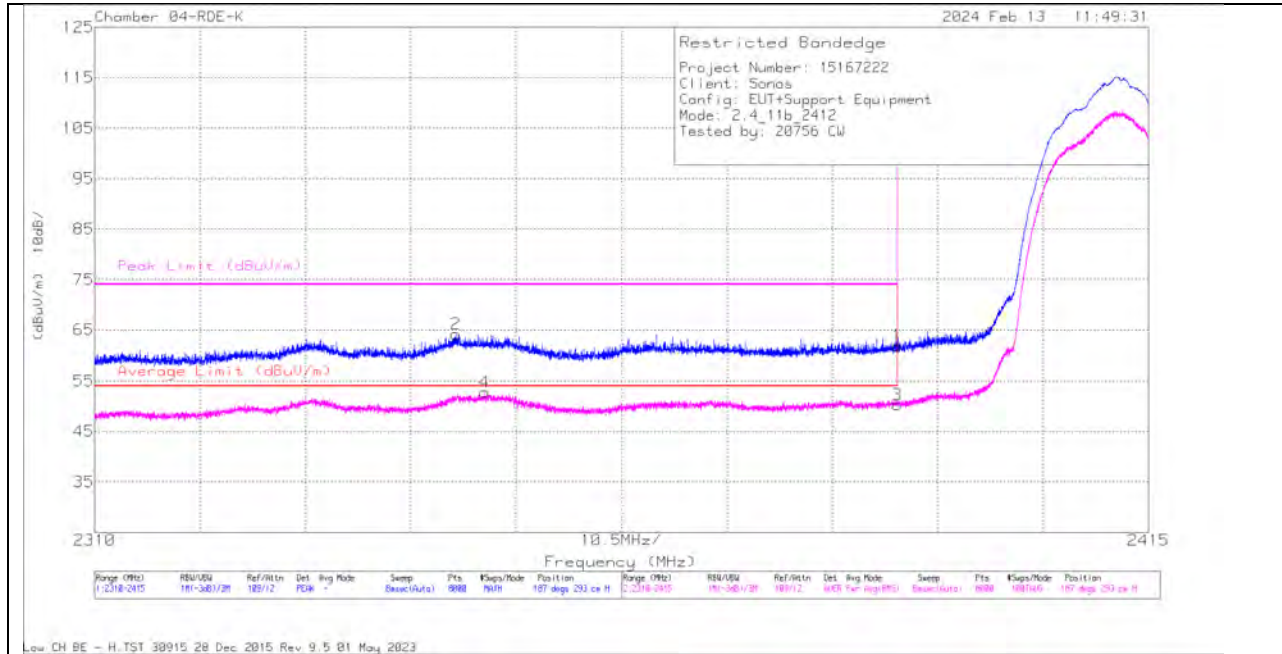
10.1. TRANSMITTER ABOVE 1 GHz

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

4TX Antenna

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT

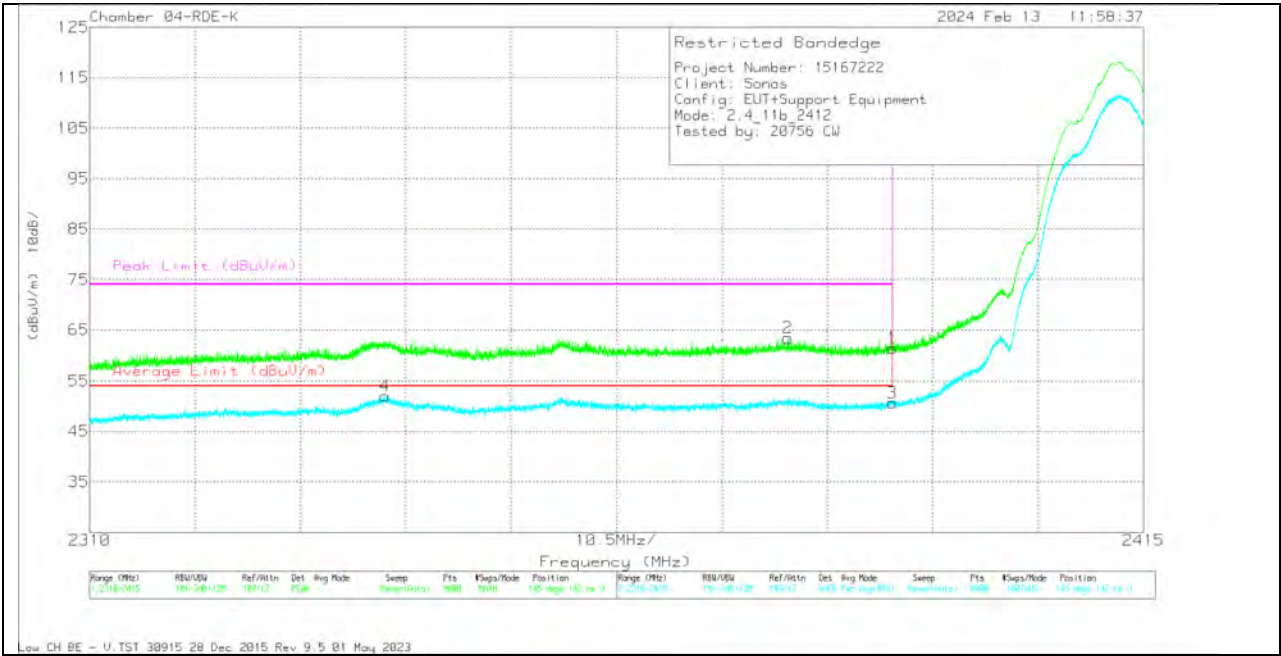


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	80404 ACP(dBm)	Cbl/Amp (dB)	DOCF (dB)	Corrected Reading (dBm)	Average Limit (dBm/100kHz)	Margin (dB)	Peak Limit (dBm/100kHz)	PK Margin (dB)	Altitude (meters)	Height (cm)	Polarity
1	* 2390	41.09	Pk	32.2	-11.3	0	61.99	-	-	74	-12.01	187	293	H
2	* 2345.968	43.21	Pk	32.3	-11.3	0	64.21	-	-	74	-9.79	187	293	H
3	* 2390	28.96	RMS	32.2	-11.3	43	50.29	54	-3.71	-	-	187	293	H
4	* 2348.869	31.29	RMS	32.3	-11.3	43	52.72	54	-1.28	-	-	187	293	H

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

VERTICAL RESULT



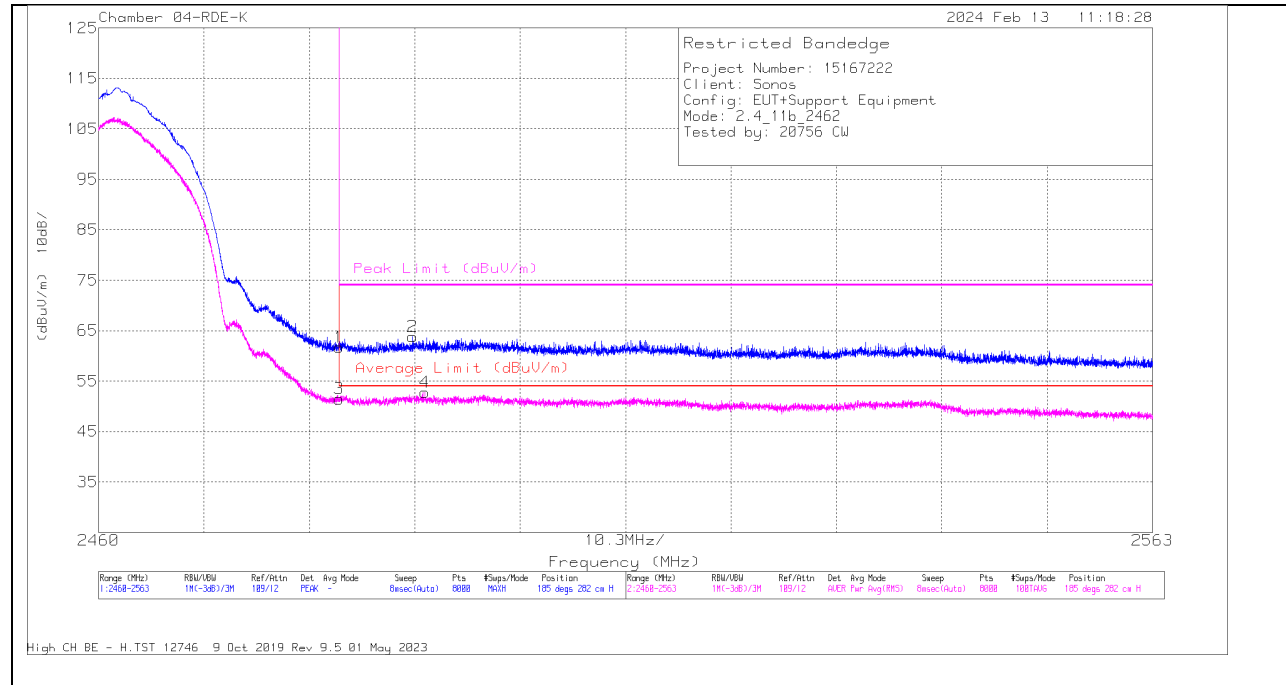
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	#0404 ACF (dBm)	Chl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2390	40.58	Pk	32.2	-11.3	0	61.48	-	-	74	-12.52	145	142	V
2	* 2379.586	42.6	Pk	32.1	-11.3	0	63.4	-	-	74	-10.6	145	142	V
3	* 2390	29.31	RMS	32.2	-11.3	.43	50.64	54	-3.36	-	-	145	142	V
4	* 2339.418	30.36	RMS	32.5	-11.3	.43	51.99	54	-2.01	-	-	145	142	V

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

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Trace Markers

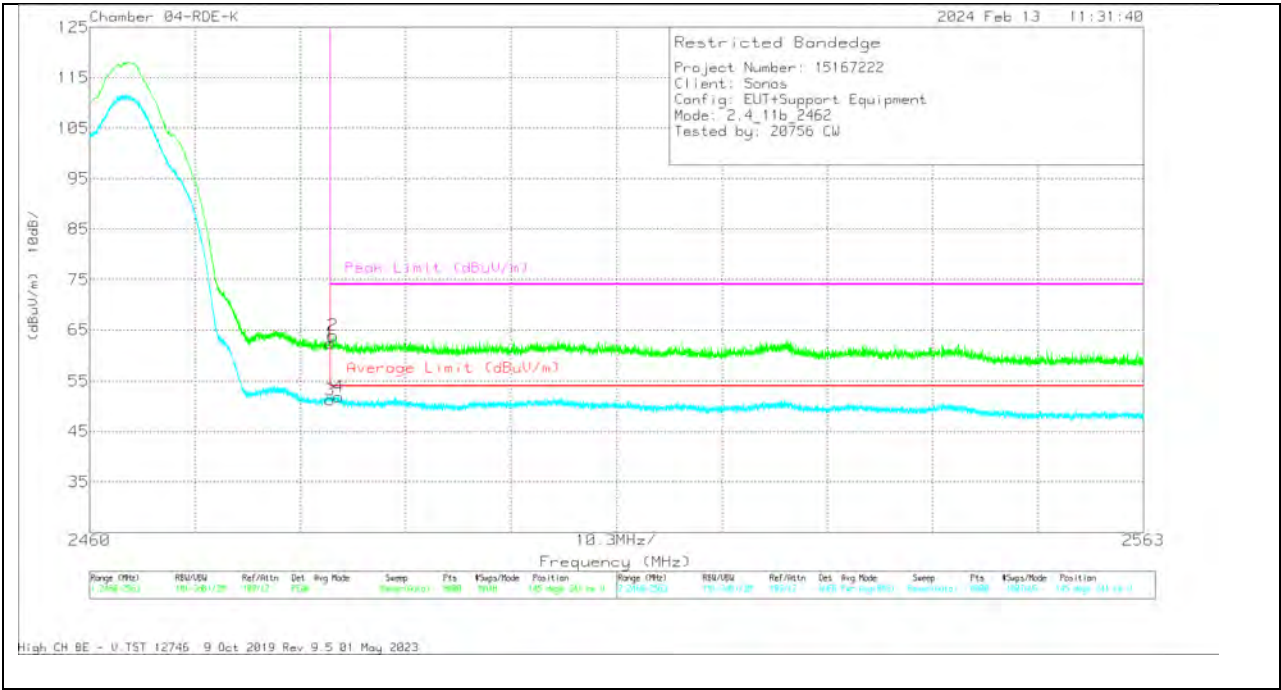
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	86404 ACP(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	40.5	Pk	32.2	-11	0	61.7	-	-	74	-12.3	185	282	H
2	* 2490.886	42.71	Pk	32.1	-11	0	63.81	-	-	74	-10.19	185	282	H
3	* 2483.5	29.84	RMS	32.2	-11	.43	51.47	54	-2.53	-	-	185	282	H
4	* 2491.883	31.24	RMS	32.1	-11	.43	52.77	54	-1.23	-	-	185	282	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



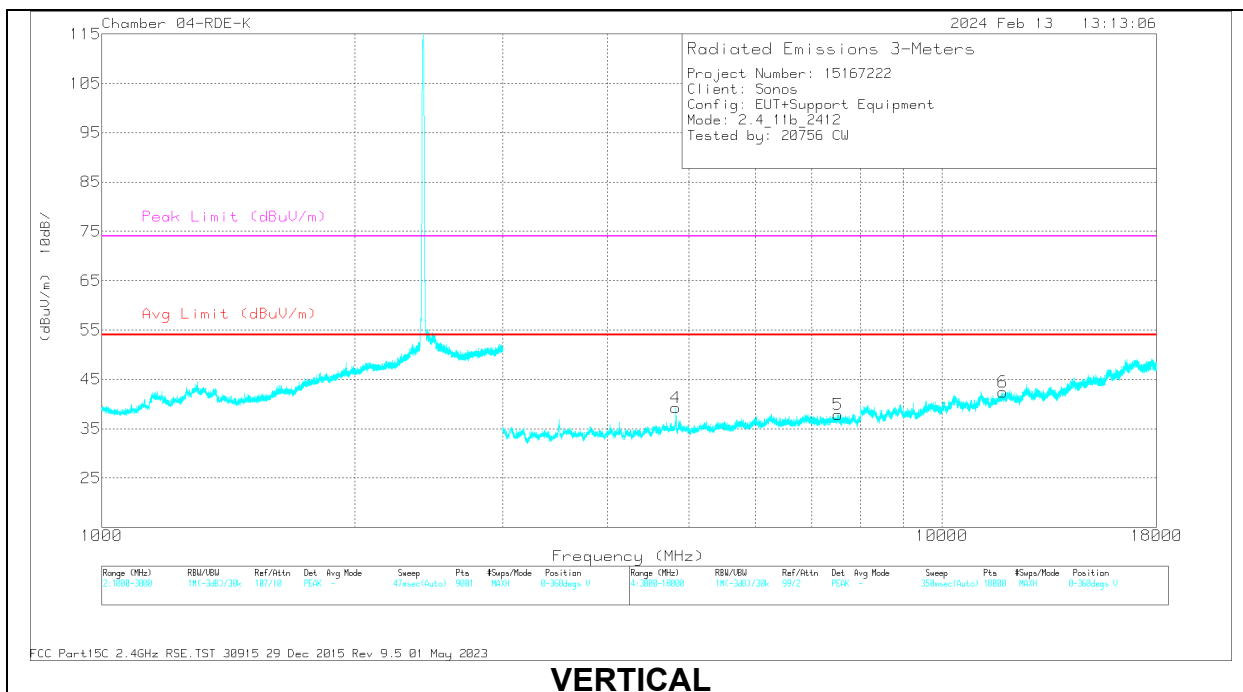
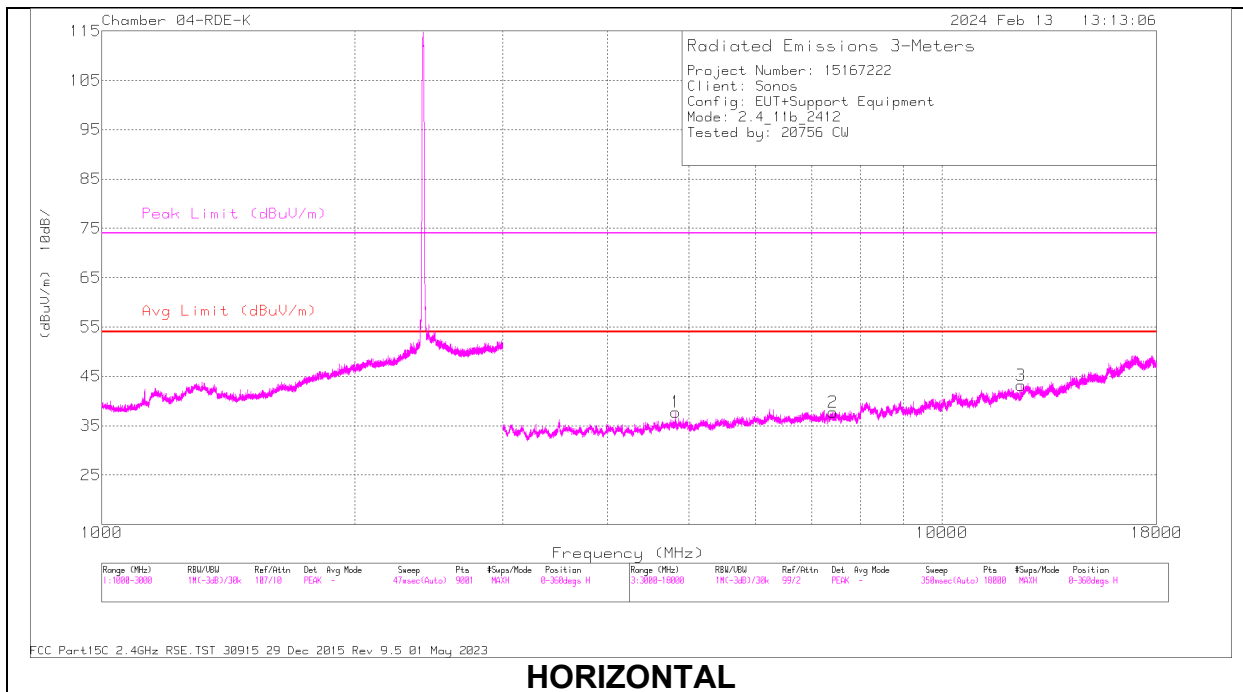
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	8004 ACF(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	41.23	Pk	32.2	-11	0	62.43	-	-	74	-11.57	145	241	V
2	* 2483.771	42.73	Pk	32.2	-11	0	63.93	-	-	74	-10.07	145	241	V
3	* 2483.5	29.66	RMS	32.2	-11	.43	51.29	54	-2.71	-	-	145	241	V
4	* 2484.325	30.43	RMS	32.1	-11	.43	51.96	54	-2.04	-	-	145	241	V

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS

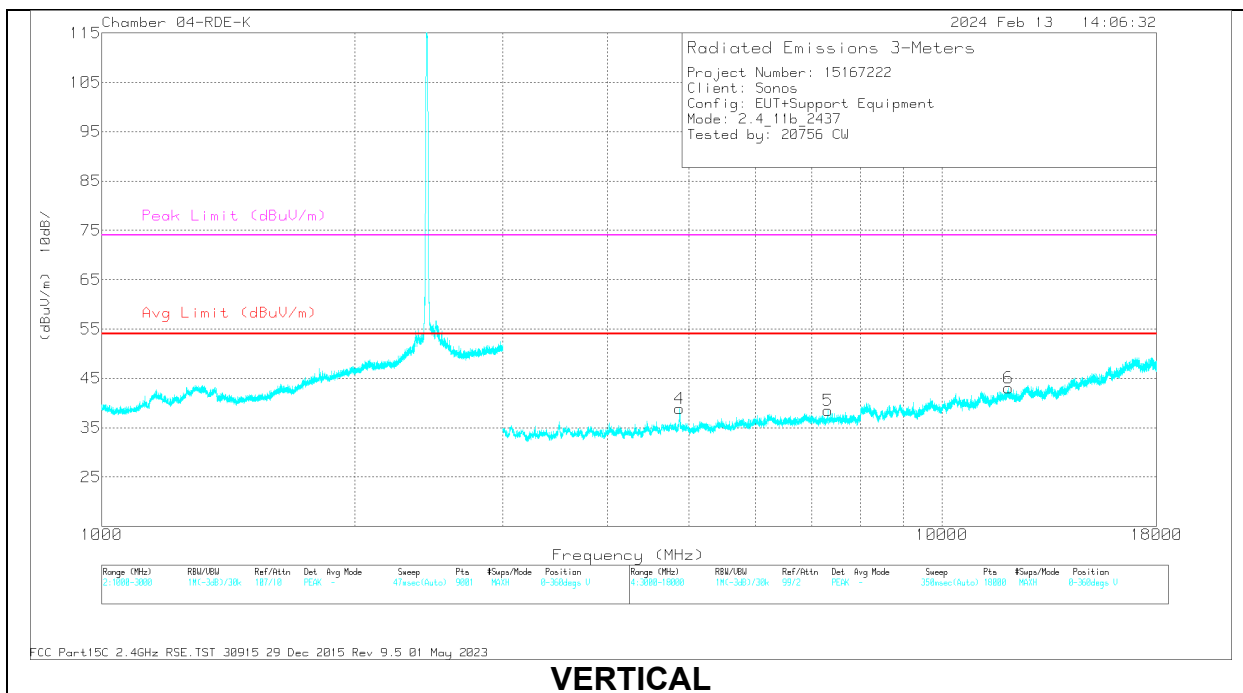
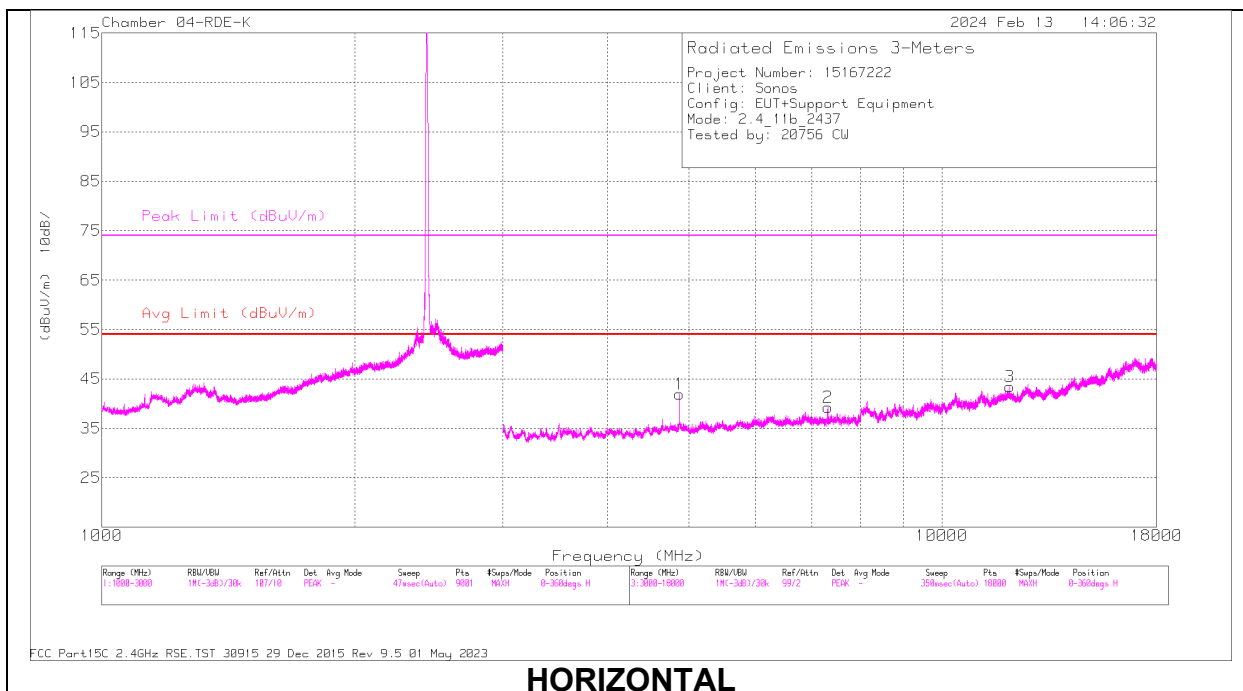


RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4824.219	53.22	PK2	34.9	-40	0	48.12	-	-	74	-25.88	313	135	H
	* 4824.112	42.32	MAV1	34.9	-40	.43	37.65	54	-16.35	-	-	313	135	H
2	* 7413.083	48.43	PK2	36	-37.3	0	47.13	-	-	74	-26.87	6	169	H
	* 7410.271	37.07	MAV1	36	-37.3	.43	36.2	54	-17.8	-	-	6	169	H
3	* 12417.088	46.51	PK2	38.8	-33.5	0	51.81	-	-	74	-22.19	300	371	H
	* 12416.711	34.17	MAV1	38.8	-33.5	.43	39.9	54	-14.1	-	-	300	371	H
4	* 4823.943	54.91	PK2	34.9	-40	0	49.81	-	-	74	-24.19	9	185	V
	* 4823.728	44.15	MAV1	34.9	-40	.43	39.48	54	-14.52	-	-	9	185	V
5	* 7520.661	49.29	PK2	36	-37.2	0	48.09	-	-	74	-25.91	271	136	V
	* 7520.044	37.27	MAV1	36	-37.3	.43	36.4	54	-17.6	-	-	271	136	V
6	* 11819.573	47.17	PK2	38.5	-33.9	0	51.77	-	-	74	-22.23	236	389	V
	* 11818.578	35.71	MAV1	38.6	-34	.43	40.74	54	-13.26	-	-	236	389	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

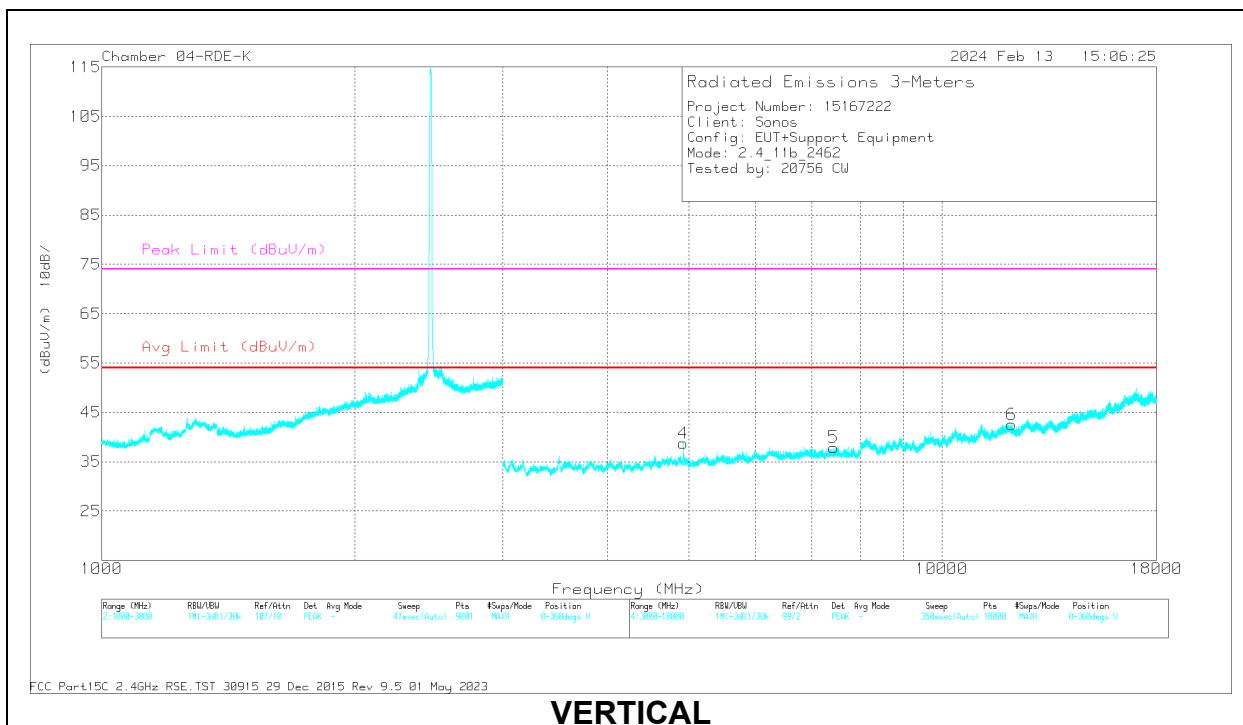
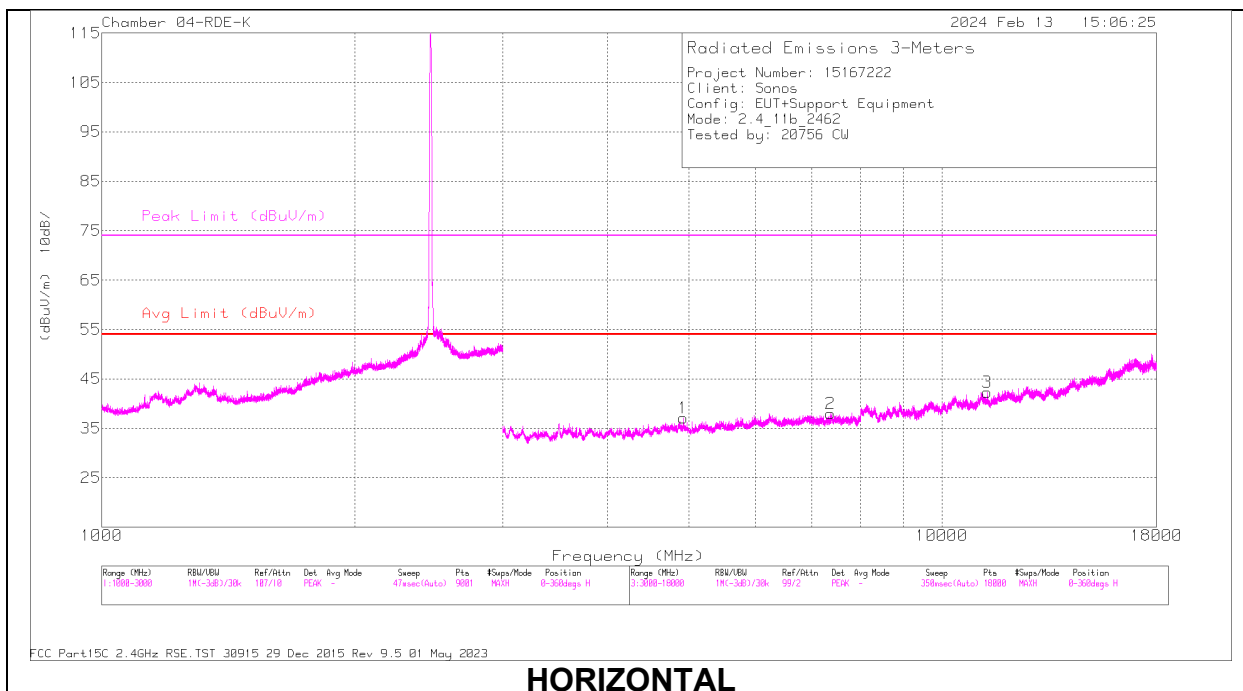
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4874.383	54.76	PK2	34.5	-39.8	0	49.46	-	-	74	-24.54	339	295	H
	* 4874.026	43.54	MAv1	34.5	-39.8	.43	38.67	54	-15.33	-	-	339	295	H
2	* 7314.178	51.3	PK2	36	-37.4	0	49.9	-	-	74	-24.1	6	211	H
	* 7314.693	39.39	MAv1	36	-37.4	.43	38.42	54	-15.58	-	-	6	211	H
3	* 12029.832	46.85	PK2	38.8	-33.8	0	51.85	-	-	74	-22.15	247	298	H
	* 12031.132	35.23	MAv1	38.8	-33.9	.43	40.56	54	-13.44	-	-	247	298	H
4	* 4873.878	55.74	PK2	34.5	-39.8	0	50.44	-	-	74	-23.56	7	210	V
	* 4873.982	45.32	MAv1	34.5	-39.8	.43	40.45	54	-13.55	-	-	7	210	V
5	* 7312.109	51.03	PK2	36	-37.5	0	49.53	-	-	74	-24.47	143	333	V
	* 7312.662	38.61	MAv1	36	-37.4	.43	37.64	54	-16.36	-	-	143	333	V
6	* 11994.539	47.58	PK2	38.8	-33.9	0	52.48	-	-	74	-21.52	282	380	V
	* 11992.358	35.83	MAv1	38.8	-33.9	.43	41.16	54	-12.84	-	-	282	380	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4924.246	54.16	PK2	34.3	-40	0	48.46	-	-	74	-25.54	21	291	H
	* 4923.936	42.31	MAv1	34.3	-40	.43	37.04	54	-16.96	-	-	21	291	H
2	* 7364.647	48.57	PK2	35.9	-37.1	0	47.37	-	-	74	-26.63	342	116	H
	* 7365.802	36.85	MAv1	35.9	-37.1	.43	36.08	54	-17.92	-	-	342	116	H
3	* 11320.624	48.53	PK2	38	-35.4	0	51.13	-	-	74	-22.87	238	390	H
	* 11320.998	37.17	MAv1	38	-35.3	.43	40.3	54	-13.7	-	-	238	390	H
4	* 4923.89	54.26	PK2	34.3	-40	0	48.56	-	-	74	-25.44	32	204	V
	* 4923.881	42.35	MAv1	34.3	-40	.43	37.08	54	-16.92	-	-	32	204	V
5	* 7431.315	48.19	PK2	36	-37.1	0	47.09	-	-	74	-26.91	276	357	V
	* 7430.483	36.79	MAv1	36	-37	.43	36.22	54	-17.78	-	-	276	357	V
6	* 12110.273	47.06	PK2	38.8	-33.6	0	52.26	-	-	74	-21.74	117	324	V
	* 12111.089	35.14	MAv1	38.7	-33.6	.43	40.67	54	-13.33	-	-	117	324	V

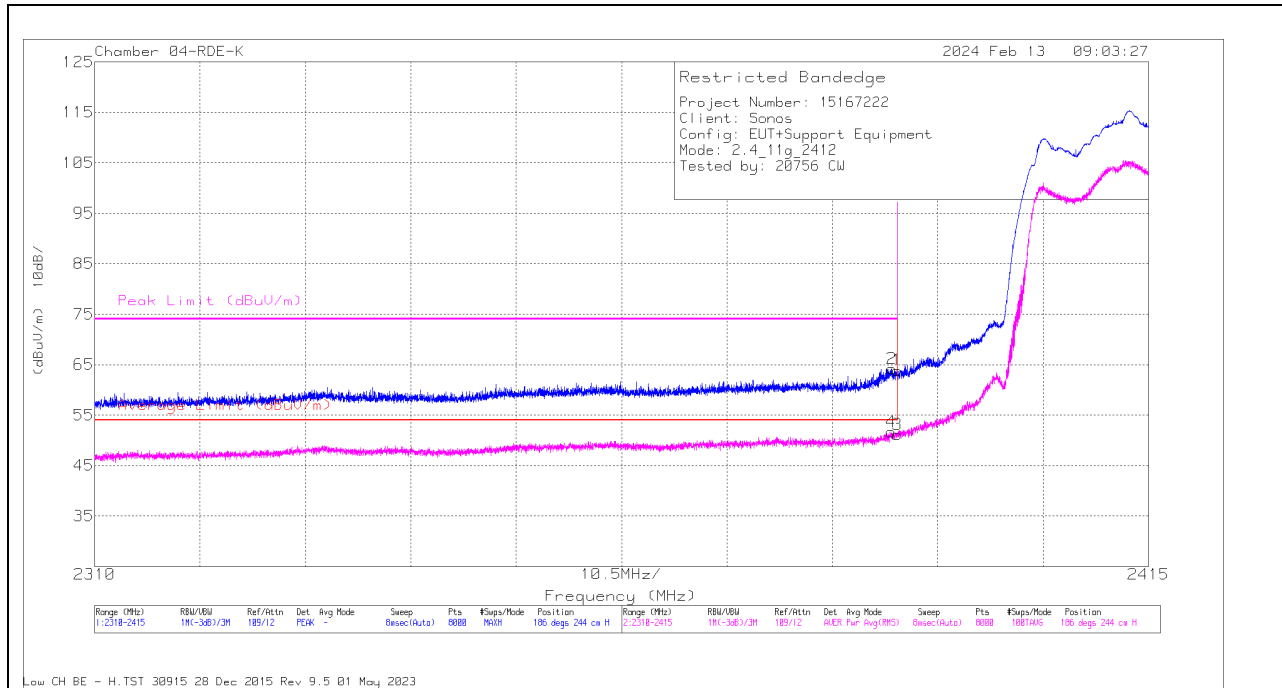
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

4TX Antenna

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Trace Markers

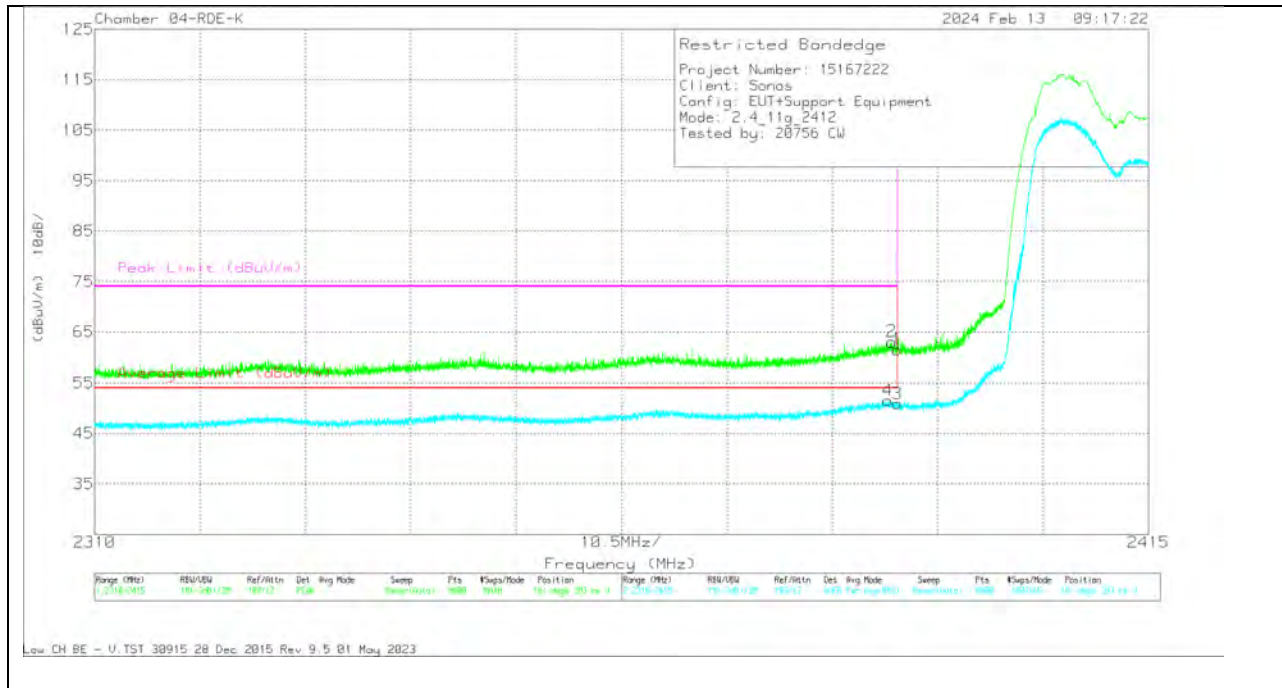
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	42.99	Pk	32.2	-11.3	0	63.89	-	-	74	-10.11	186	244	H
2	* 2389.418	43.23	Pk	32.2	-11.2	0	64.23	-	-	74	-9.77	186	244	H
3	* 2390	29.35	RMS	32.2	-11.3	96	51.21	54	-2.79	-	-	186	244	H
4	* 2389.34	29.74	RMS	32.2	-11.2	96	51.7	54	-2.3	-	-	186	244	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	86404 ACF(dBm)	Chl/Amp (dB)	DCCF (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	40.72	Pk	32.2	-11.3	0	61.62	-	-	74	-12.38	161	283	V
2	* 2389.418	42.14	Pk	32.2	-11.2	0	63.14	-	-	74	-10.86	161	283	V
3	* 2390	29.04	RMS	32.2	-11.3	.96	50.9	54	-3.1	-	-	161	283	V
4	* 2389.025	29.58	RMS	32.2	-11.2	.96	51.54	54	-2.46	-	-	161	283	V

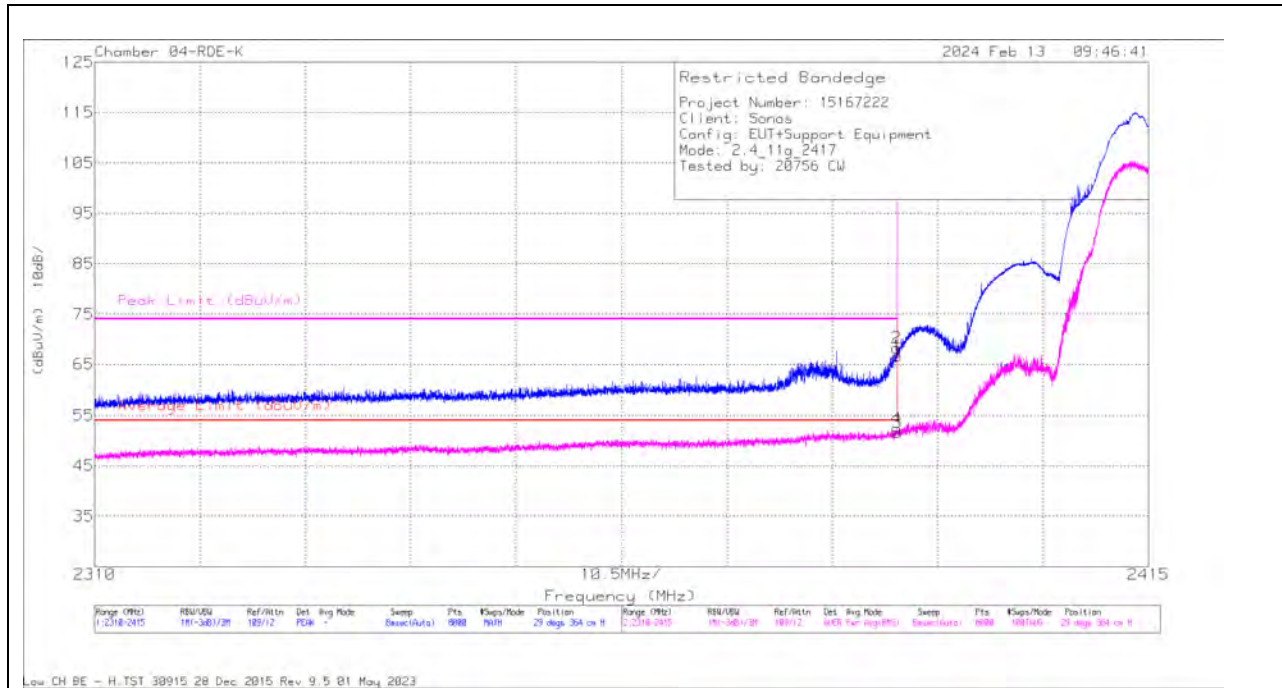
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)

HORIZONTAL RESULT



Trace Markers

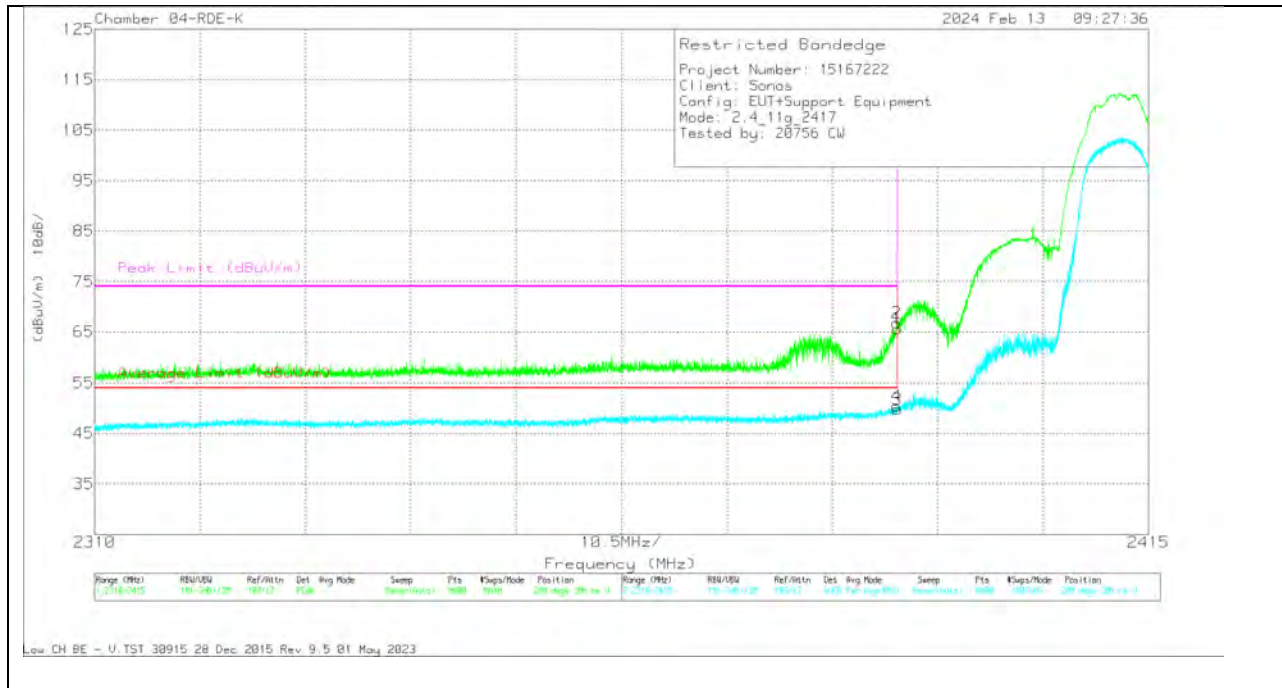
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACP(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (ft)	Height (cm)	Polarity
1	* 2380	45.83	PK	32.2	-11.3	0	66.73	-	-	74	-7.27	29	364	H
2	* 2389.943	47.39	PK	32.2	-11.3	0	68.29	-	-	74	-5.71	29	364	H
3	* 2390	29.82	RMS	32.2	-11.3	96	51.68	54	-2.32	-	-	29	364	H
4	* 2389.943	30.51	RMS	32.2	-11.3	96	52.37	54	-1.63	-	-	29	364	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dBm)	Chl/Amp (dB)	DCCF (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	44.69	Pk	32.2	-11.3	0	65.59	-	-	74	-8.41	288	288	V
2	* 2389.917	45.88	Pk	32.2	-11.3	0	66.78	-	-	74	-7.22	288	288	V
3	* 2390	27.9	RMS	32.2	-11.3	.96	49.76	54	-4.24	-	-	288	288	V
4	* 2389.93	28.57	RMS	32.2	-11.3	.96	50.43	54	-3.57	-	-	288	288	V

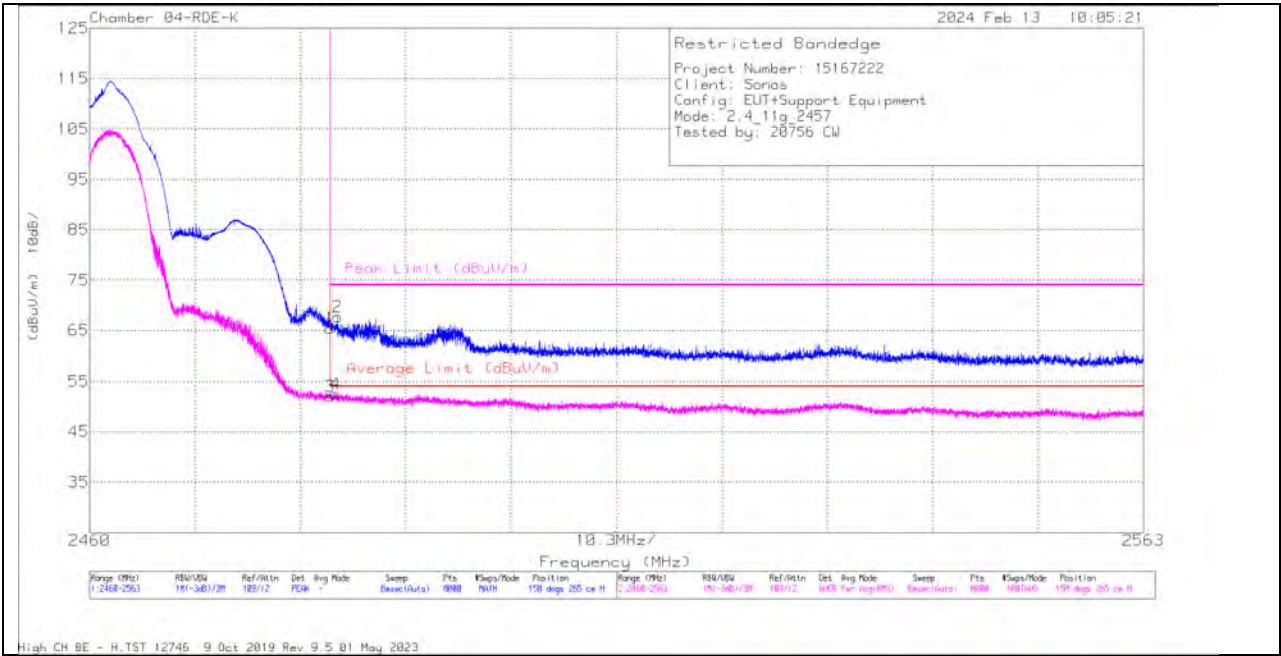
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT

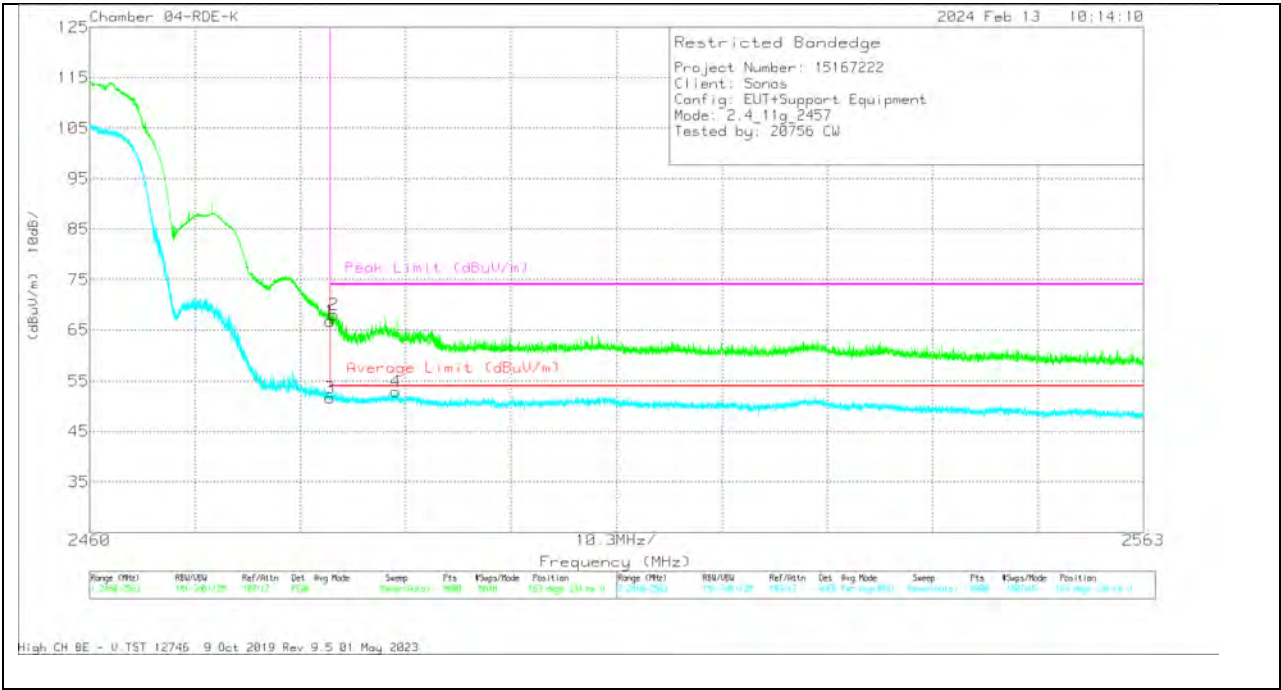


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBu/m)	Det	88404 ACP(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Altitude (feet)	Height (cm)	Polarity
1	* 2483.5	44.29	Pk	32.2	-11	0	65.49	-	-	74	-8.51	158	265	H
2	* 2484.247	46.59	Pk	32.1	-11	0	67.69	-	-	74	-6.31	158	265	H
3	* 2483.5	29.87	RMS	32.2	-11	.96	52.03	54	-1.97	-	-	158	265	H
4	* 2484.028	30.4	RMS	32.2	-11	.96	52.56	54	-1.44	-	-	158	265	H

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

VERTICAL RESULT



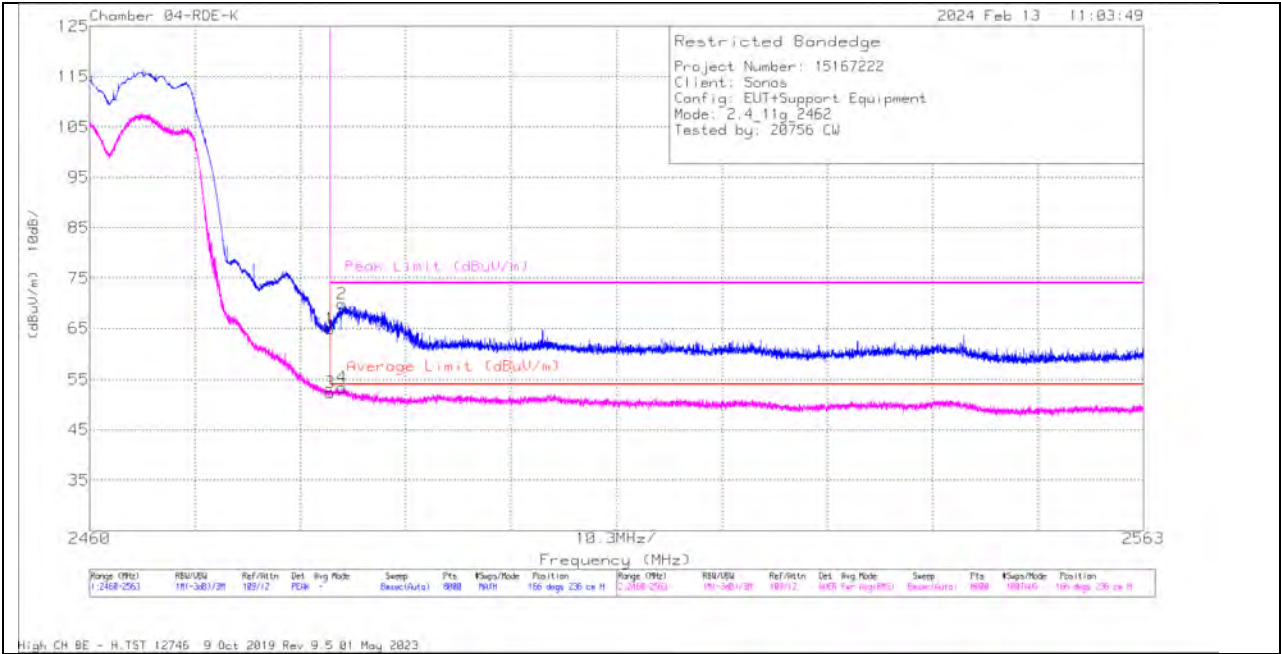
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dBm)	Chl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2483.5	45.55	Pk	32.2	-11	0	66.75	-	-	74	-7.25	163	234	V
2	* 2483.887	46.88	Pk	32.2	-11	0	68.08	-	-	74	-5.92	163	234	V
3	* 2483.5	29.55	RMS	32.2	-11	.96	51.71	54	-2.29	-	-	163	234	V
4	* 2489.913	30.87	RMS	32.1	-11	.96	52.93	54	-1.07	-	-	163	234	V

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

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT

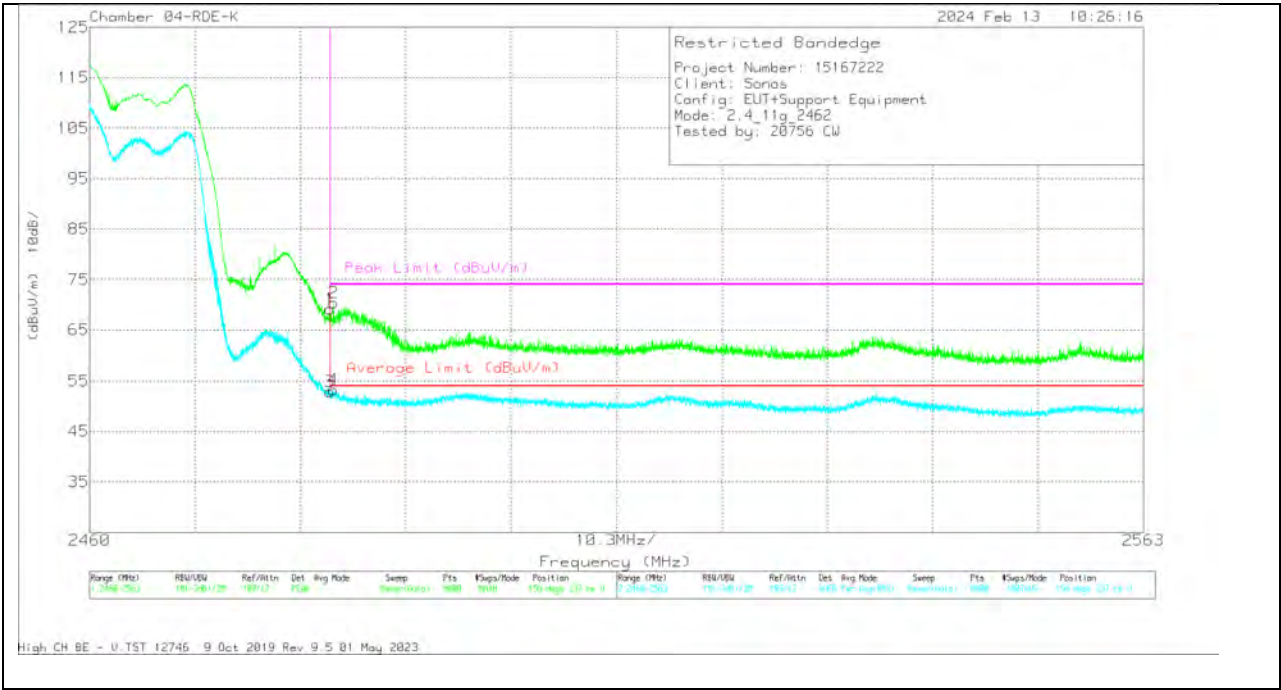


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACP(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (ft)	Height (ft)	Polarity
1	* 2483.5	43.72	PK	32.2	-11	0	64.92	-	-	74	-9.08	166	236	H
2	* 2484.647	48.94	PK	32.1	-11	0	69.94	-	-	74	-4.06	166	236	H
3	* 2483.5	30.19	RMS	32.2	-11	96	52.35	54	-1.65	-	-	166	236	H
4	* 2484.634	31.35	RMS	32.1	-11	96	53.41	54	-5.9	-	-	166	236	H

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

VERTICAL RESULT



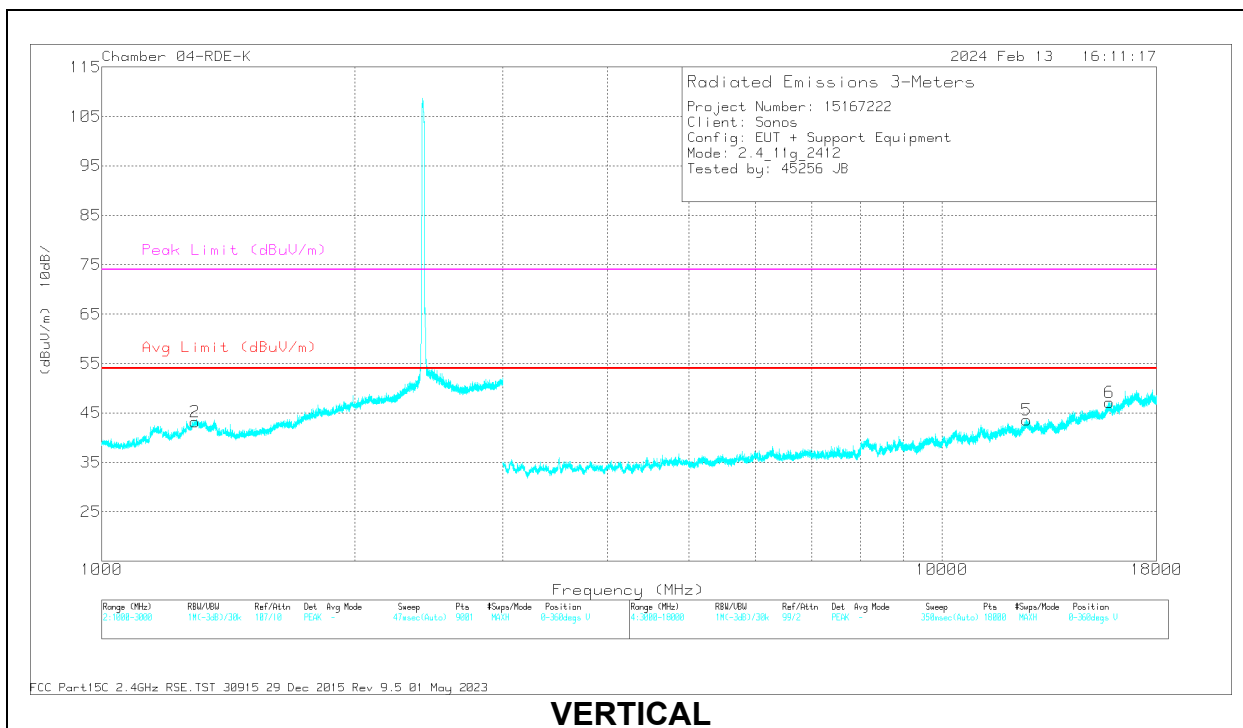
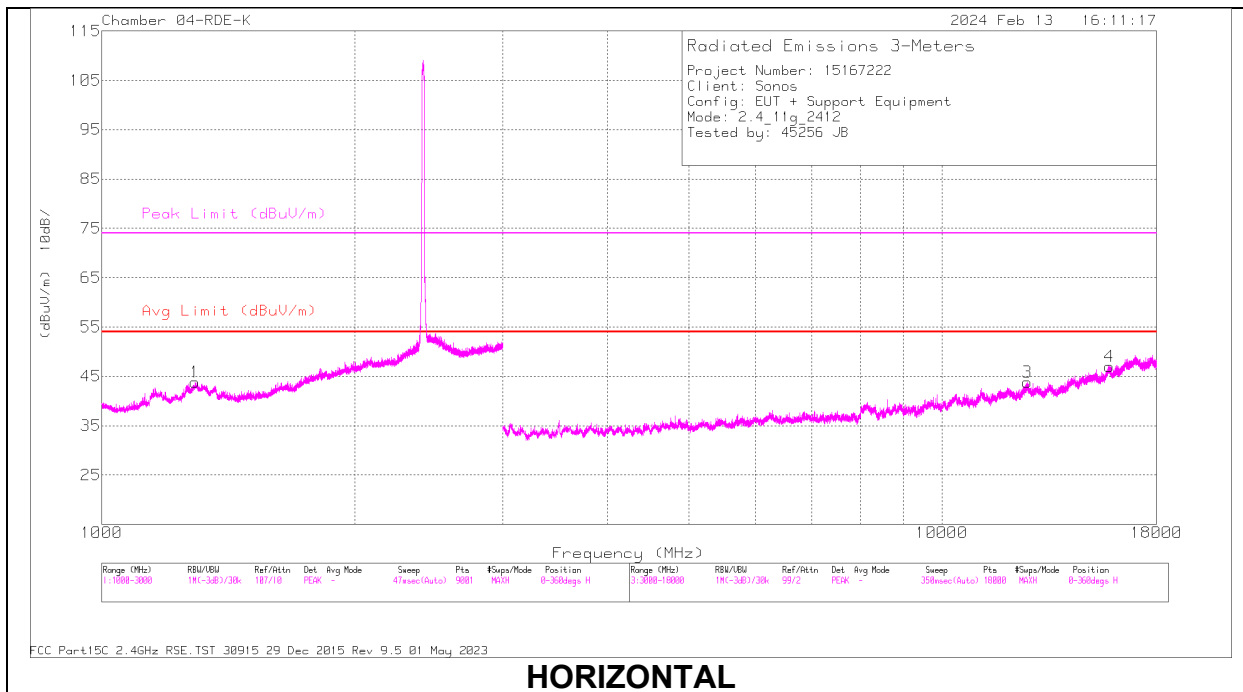
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	80404 ACI (dBm)	Cat/Amp (dB)	DCCF (dB)	Corrected Reading (dBm)	Average Limit (dBm/100kHz)	Margin (dB)	Peak Limit (dBm/100kHz)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	48.02	Pk	32.2	-11	0	69.22	-	-	74	-4.78	156	237	V
2	* 2483.648	49.23	Pk	32.2	-11	0	70.43	-	-	74	-3.57	156	237	V
3	* 2483.5	30.75	RMS	32.2	-11	.96	52.91	54	-1.09	-	-	156	237	V
4	* 2483.822	31.1	RMS	32.2	-11	.96	53.26	54	-1.74	-	-	156	237	V

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

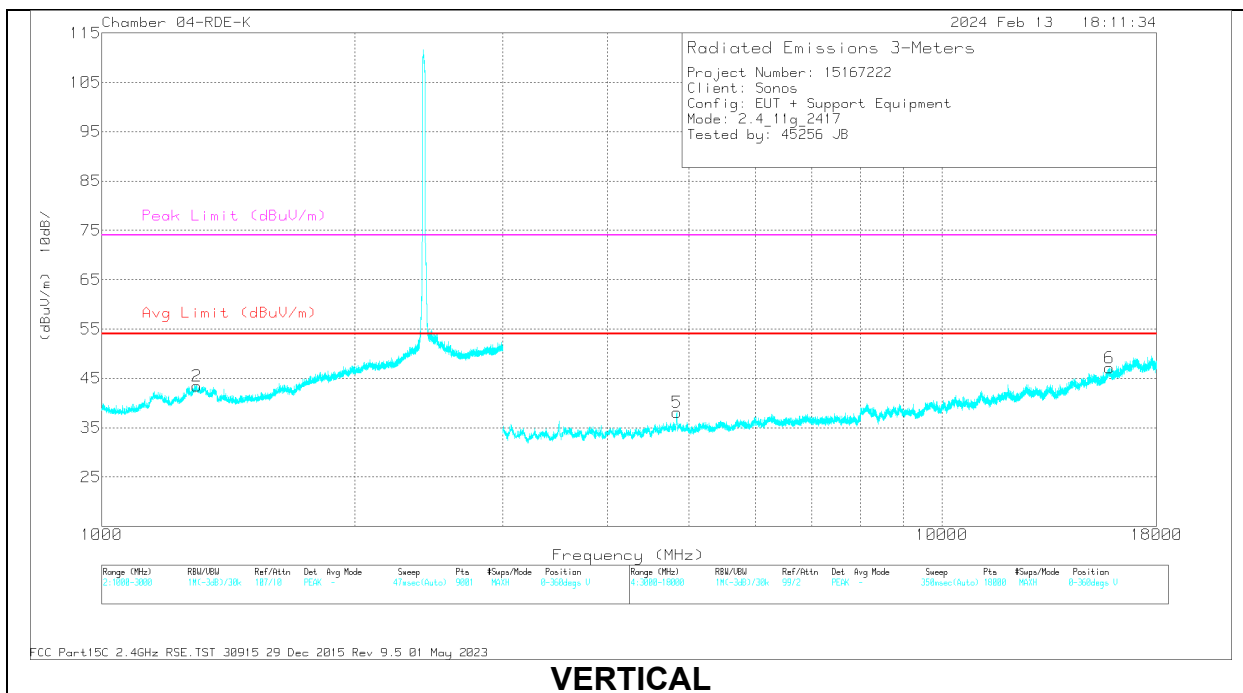
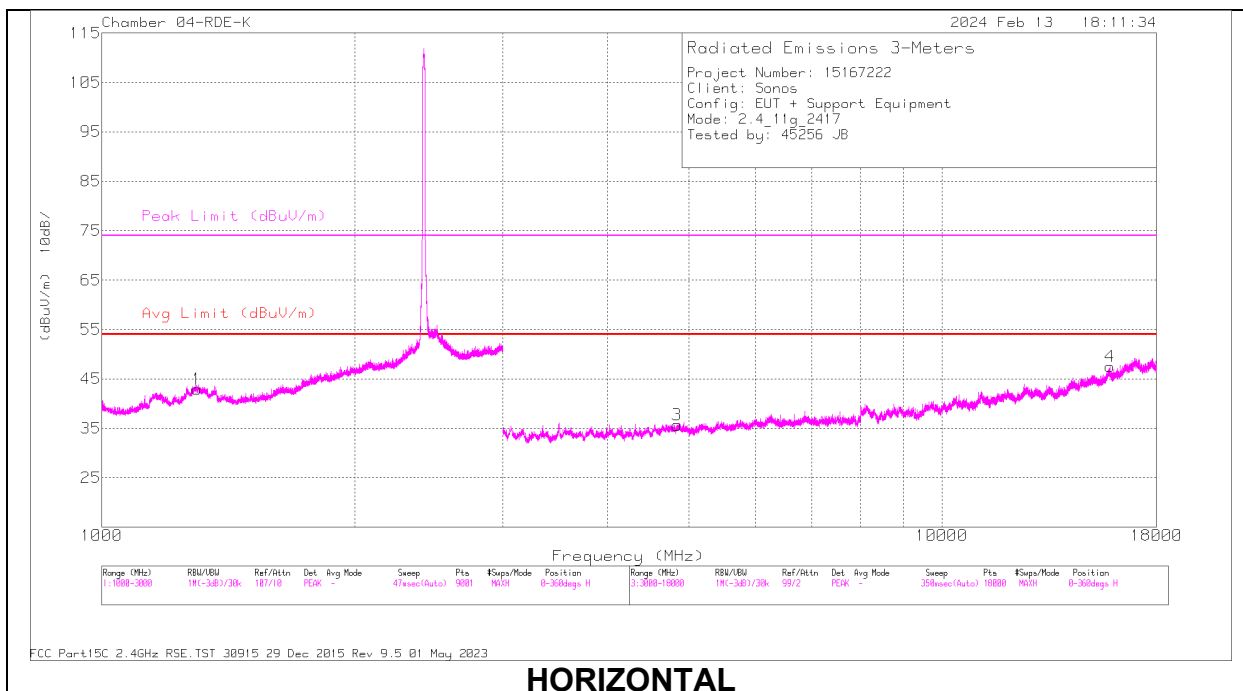
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1293.348	36.91	PK2	29.4	-13.4	0	52.91	-	-	74	-21.09	313	359	H
	* 1295.775	25.03	MAv1	29.4	-13.4	.96	41.99	54	-12.01	-	-	313	359	H
2	* 1288.687	36.77	PK2	29.3	-13.4	0	52.67	-	-	74	-21.33	7	395	V
	* 1288.562	24.94	MAv1	29.3	-13.4	.96	41.8	54	-12.2	-	-	7	395	V
3	* 12630.356	46.9	PK2	39	-33.2	0	52.7	-	-	74	-21.3	4	269	H
	* 12633.445	35.6	MAv1	39	-33.2	.96	42.36	54	-11.64	-	-	4	269	H
4	* 15827.704	47.75	PK2	40.9	-31.7	0	56.95	-	-	74	-17.05	35	117	H
	* 15827.569	35.37	MAv1	40.9	-31.7	.96	45.53	54	-8.47	-	-	35	117	H
5	* 12616.046	47.13	PK2	39.2	-33.2	0	53.13	-	-	74	-20.87	212	166	V
	* 12613.351	35.43	MAv1	39.2	-33.2	.96	42.39	54	-11.61	-	-	212	166	V
6	* 15834.565	48.09	PK2	40.9	-31.6	0	57.39	-	-	74	-16.61	180	116	V
	* 15833.229	35.37	MAv1	40.9	-31.6	.96	45.63	54	-8.37	-	-	180	116	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LOW CHANNEL, CH 2 RESULTS



RADIATED EMISSIONS

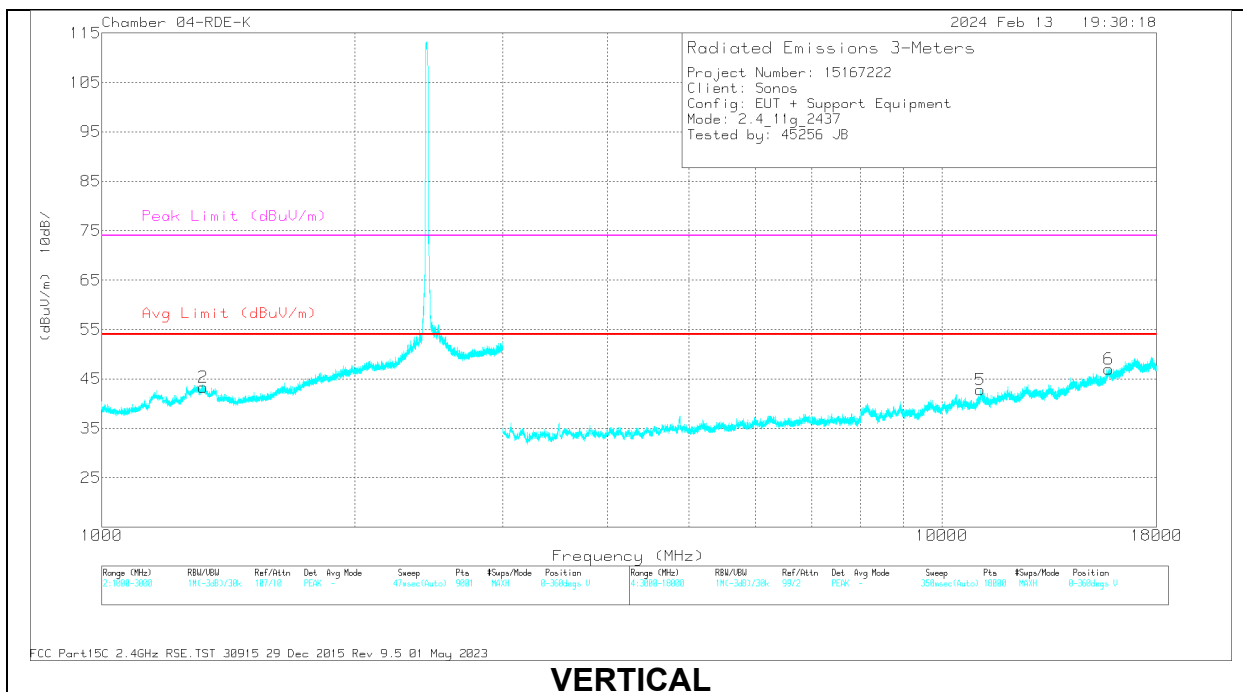
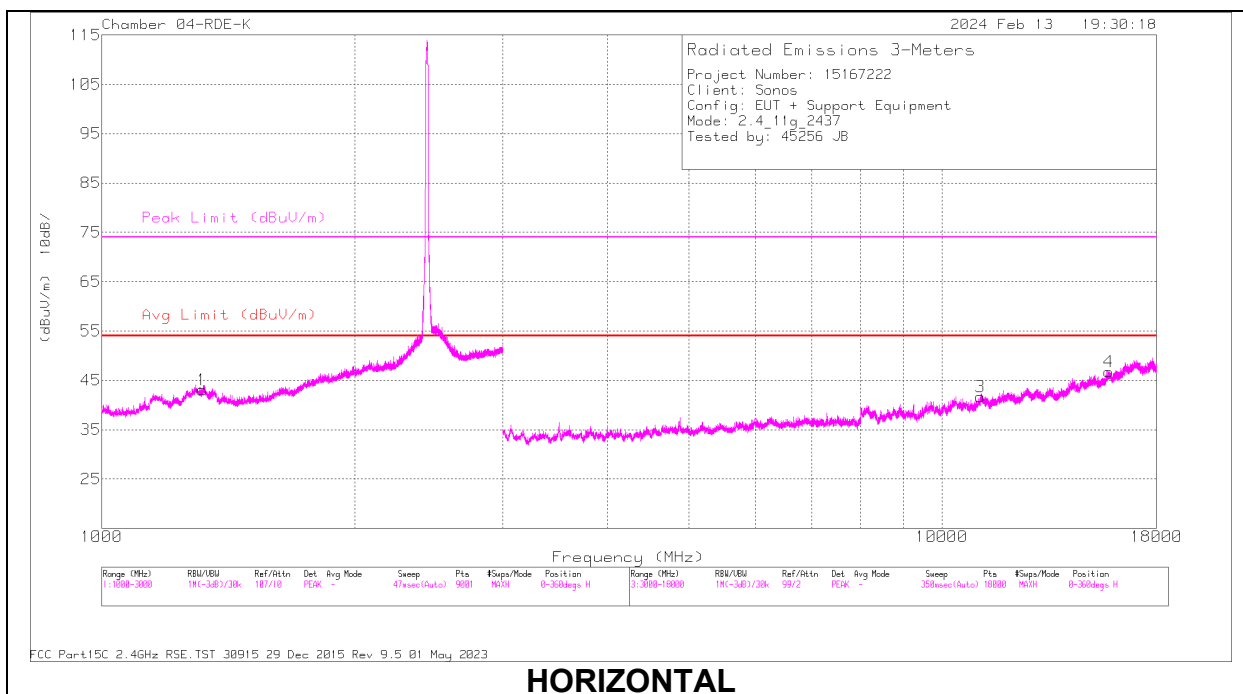
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1299.551	36.8	PK2	29.2	-13.4	0	52.6	-	-	74	-21.4	78	269	H
	* 1299.487	24.94	MAv1	29.2	-13.4	.96	41.7	54	-12.3	-	-	78	269	H
2	* 1298.384	36.31	PK2	29.3	-13.4	0	52.21	-	-	74	-21.79	114	253	V
	* 1297.886	25.1	MAv1	29.3	-13.4	.96	41.96	54	-12.04	-	-	114	253	V
3	* 4835.553	54.06	PK2	34.7	-39.9	0	48.86	-	-	74	-25.14	316	199	H
	* 4833.553	40.97	MAv1	34.8	-39.9	.96	36.83	54	-17.17	-	-	316	199	H
4	* 15845.997	47.65	PK2	40.9	-31.7	0	56.85	-	-	74	-17.15	287	339	H
	* 15847.618	35.42	MAv1	40.9	-31.7	.96	45.58	54	-8.42	-	-	287	339	H
5	* 4833.043	54.35	PK2	34.8	-40	0	49.15	-	-	74	-24.85	11	269	V
	* 4832.367	42.05	MAv1	34.8	-40.1	.96	37.71	54	-16.29	-	-	11	269	V
6	* 15833.054	47.07	PK2	40.9	-31.6	0	56.37	-	-	74	-17.63	80	399	V
	* 15831.894	35.73	MAv1	40.9	-31.6	.96	45.99	54	-8.01	-	-	80	399	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

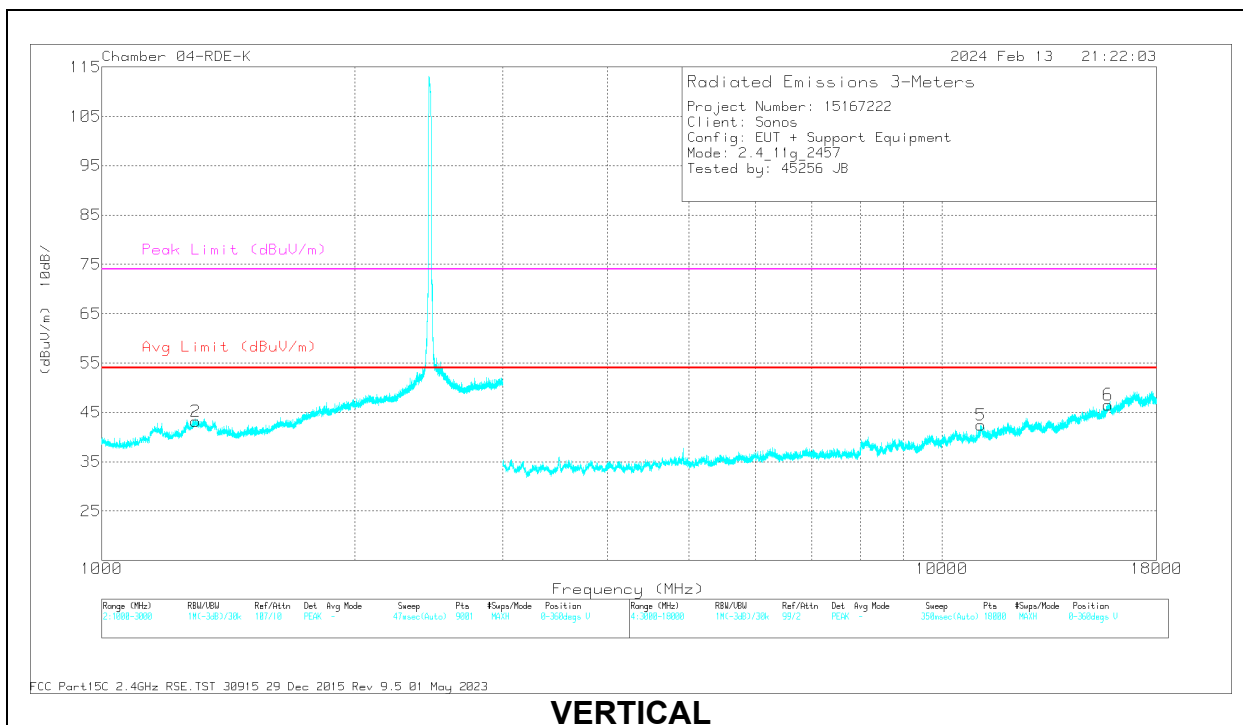
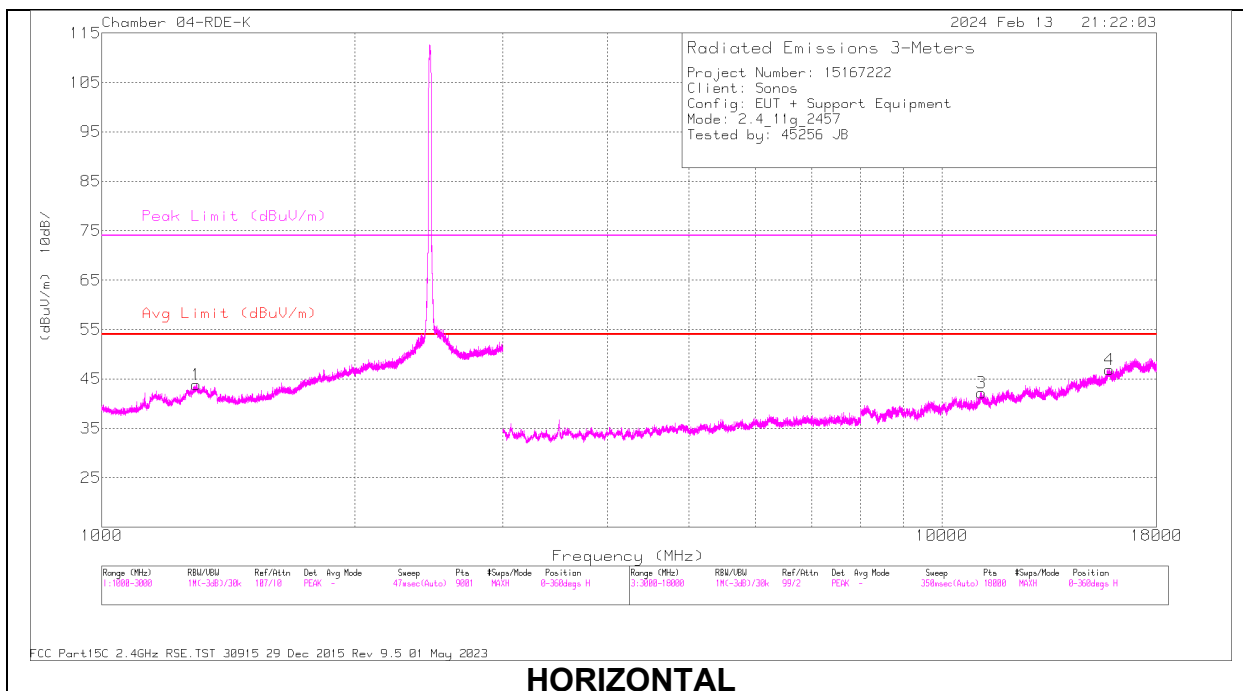
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1318.923	36.68	PK2	29	-13.4	0	52.28	-	-	74	-21.72	335	256	H
	* 1317.736	24.93	MAv1	29	-13.4	.96	41.49	54	-12.51	-	-	335	256	H
2	* 1321.093	36.97	PK2	29.1	-13.3	0	52.77	-	-	74	-21.23	172	190	V
	* 1322.98	25.09	MAv1	29.1	-13.4	.96	41.75	54	-12.25	-	-	172	190	V
3	* 11106.738	48.92	PK2	37.9	-35.6	0	51.22	-	-	74	-22.78	184	271	H
	* 11107.097	37.56	MAv1	37.9	-35.6	.96	40.82	54	-13.18	-	-	184	271	H
4	* 15789.139	46.69	PK2	40.8	-31.9	0	55.59	-	-	74	-18.41	36	345	H
	* 15787.118	35.32	MAv1	40.8	-31.9	.96	45.18	54	-8.82	-	-	36	345	H
5	* 11113.676	49.04	PK2	38	-35.6	0	51.44	-	-	74	-22.56	120	254	V
	* 11113.7	37.59	MAv1	38	-35.6	.96	40.95	54	-13.05	-	-	120	254	V
6	* 15804.214	46.68	PK2	40.9	-31.8	0	55.78	-	-	74	-18.22	342	359	V
	* 15802.995	35.46	MAv1	40.9	-31.9	.96	45.42	54	-8.58	-	-	342	359	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 10 RESULTS



RADIATED EMISSIONS

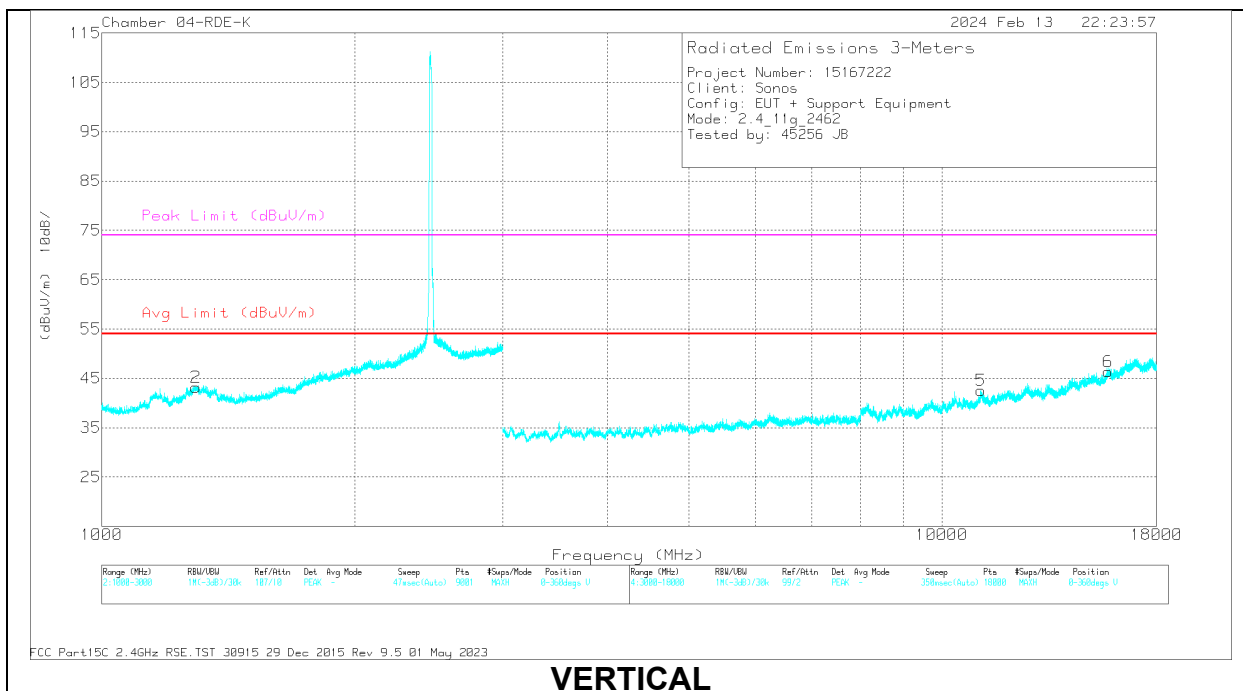
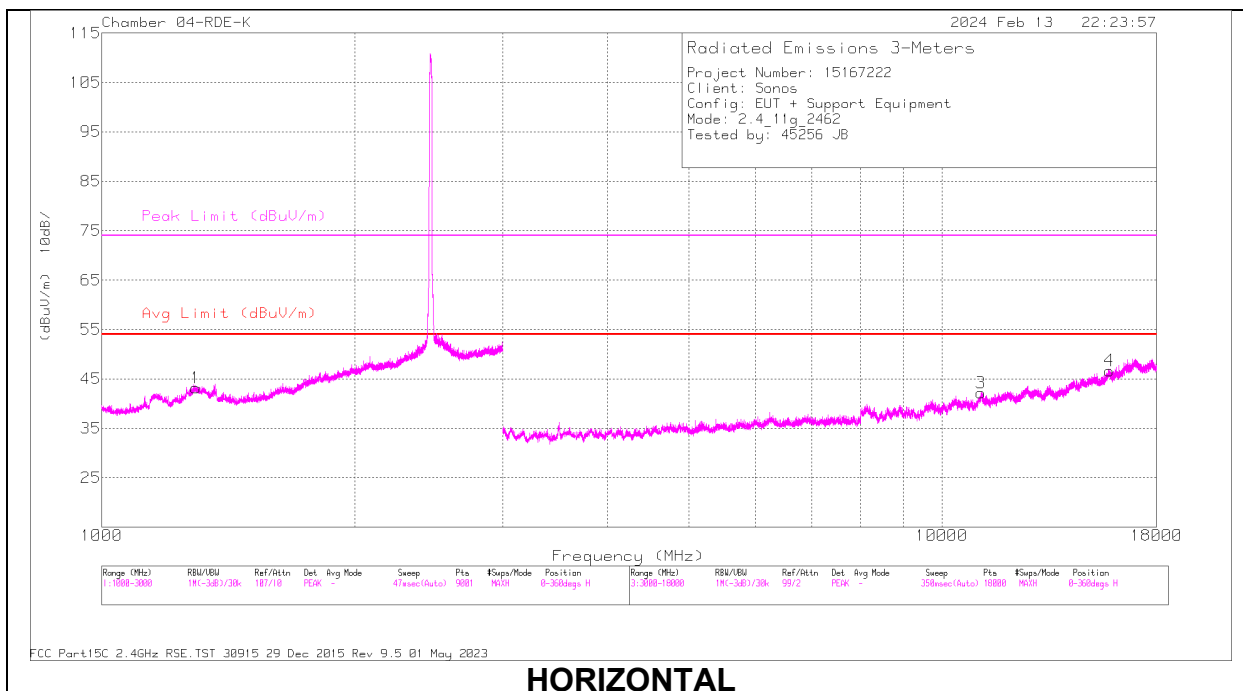
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1291.249	36.5	PK2	29.4	-13.4	0	52.5	-	-	74	-21.5	72	138	H
	* 1294.39	25.22	MAv1	29.4	-13.4	.96	42.18	54	-11.82	-	-	72	138	H
	* 1294.222	37.59	PK2	29.4	-13.4	0	53.59	-	-	74	-20.41	153	291	V
2	* 1295.676	24.85	MAv1	29.4	-13.4	.96	41.81	54	-12.19	-	-	153	291	V
	* 11145.926	49.3	PK2	38	-35.1	0	52.2	-	-	74	-21.8	323	338	H
	* 11143.23	37.73	MAv1	38	-35.1	.96	41.59	54	-12.41	-	-	323	338	H
3	* 15832.839	46.87	PK2	40.9	-31.6	0	56.17	-	-	74	-17.83	87	376	H
	* 15832.521	35.55	MAv1	40.9	-31.6	.96	45.81	54	-8.19	-	-	87	376	H
	* 11130.847	48.94	PK2	37.9	-35.3	0	51.54	-	-	74	-22.46	235	200	V
4	* 11127.988	37.65	MAv1	37.9	-35.3	.96	41.21	54	-12.79	-	-	235	200	V
	* 15771.659	46.81	PK2	40.9	-31.8	0	55.91	-	-	74	-18.09	76	292	V
	* 15773.28	35.35	MAv1	40.9	-31.8	.96	45.41	54	-8.59	-	-	76	292	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1298.981	36.73	PK2	29.3	-13.4	0	52.63	-	-	74	-21.37	278	112	H
	* 1299.047	24.91	MAv1	29.2	-13.4	.96	41.67	54	-12.33	-	-	278	112	H
2	* 1293.949	36.59	PK2	29.4	-13.4	0	52.59	-	-	74	-21.41	3	171	V
	* 1296.288	24.94	MAv1	29.4	-13.4	.96	41.9	54	-12.1	-	-	3	171	V
3	* 11132.306	48.97	PK2	38	-35.3	0	51.67	-	-	74	-22.33	234	199	H
	* 11132.13	37.59	MAv1	38	-35.3	.96	41.25	54	-12.75	-	-	234	199	H
4	* 15817.184	47.6	PK2	40.8	-31.8	0	56.6	-	-	74	-17.4	73	369	H
	* 15819.351	35.37	MAv1	40.8	-31.7	.96	45.43	54	-8.57	-	-	73	369	H
5	* 11133.054	50.22	PK2	38	-35.3	0	52.92	-	-	74	-21.08	342	275	V
	* 11133.318	38	MAv1	38	-35.3	.96	41.66	54	-12.34	-	-	342	275	V
6	* 15781.326	46.96	PK2	40.9	-31.8	0	56.06	-	-	74	-17.94	293	255	V
	* 15784.247	35.48	MAv1	40.8	-31.9	.96	45.34	54	-8.66	-	-	293	255	V

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

PK2 - KDB558074 Method: Maximum Peak

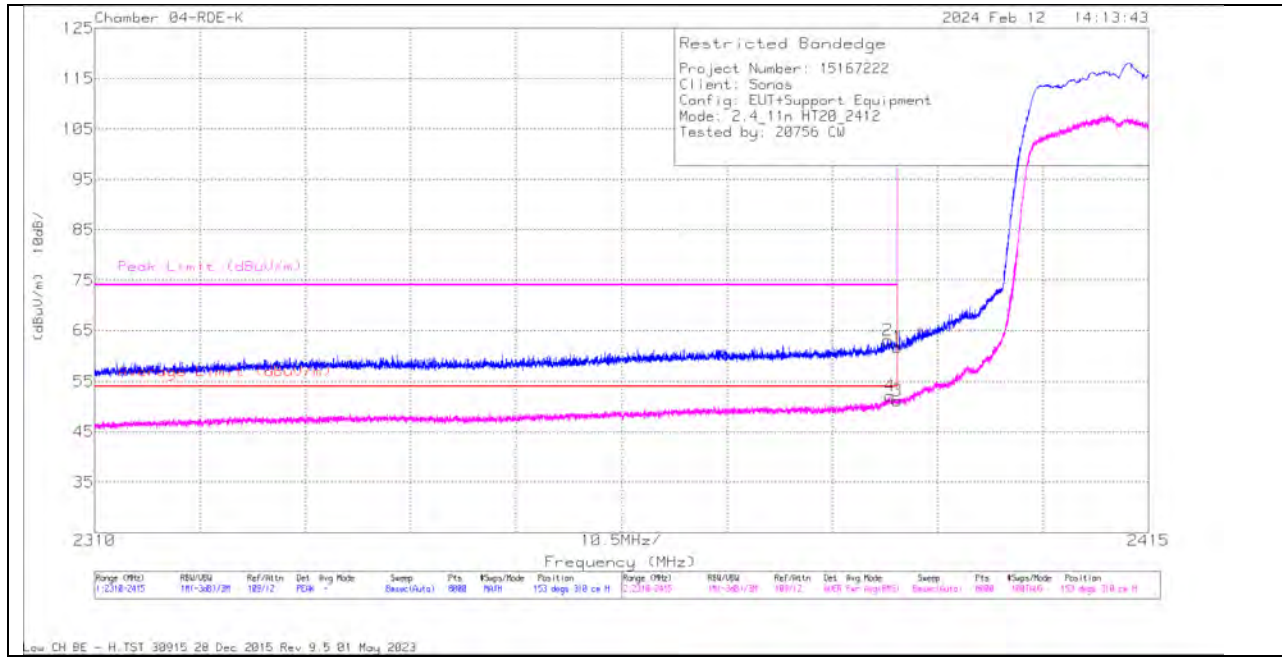
MAv1 - KDB558074 Option 1 Maximum RMS Average

10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

4TX Antenna

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	#Sigs/Mode	ACF(dBm)	Cat/Amp (dB)	DCCF (dB)	Corrected Reading (dBm)	Average Limit (dBm)	Margin (dB)	Peak Limit (dBm)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2390	40.82	Pk	32.2	-11.3	0	61.72	-	-	-	74	-12.28	153	310	H
2	* 2389.011	42.05	Pk	32.2	-11.2	0	63.05	-	-	-	74	-10.95	153	310	H
3	* 2390	29.72	RMS	32.2	-11.3	58	51.20	54	-2.8	-	-	-	153	310	H
4	* 2389.248	30.54	RMS	32.2	-11.2	58	52.12	54	-1.88	-	-	-	153	310	H

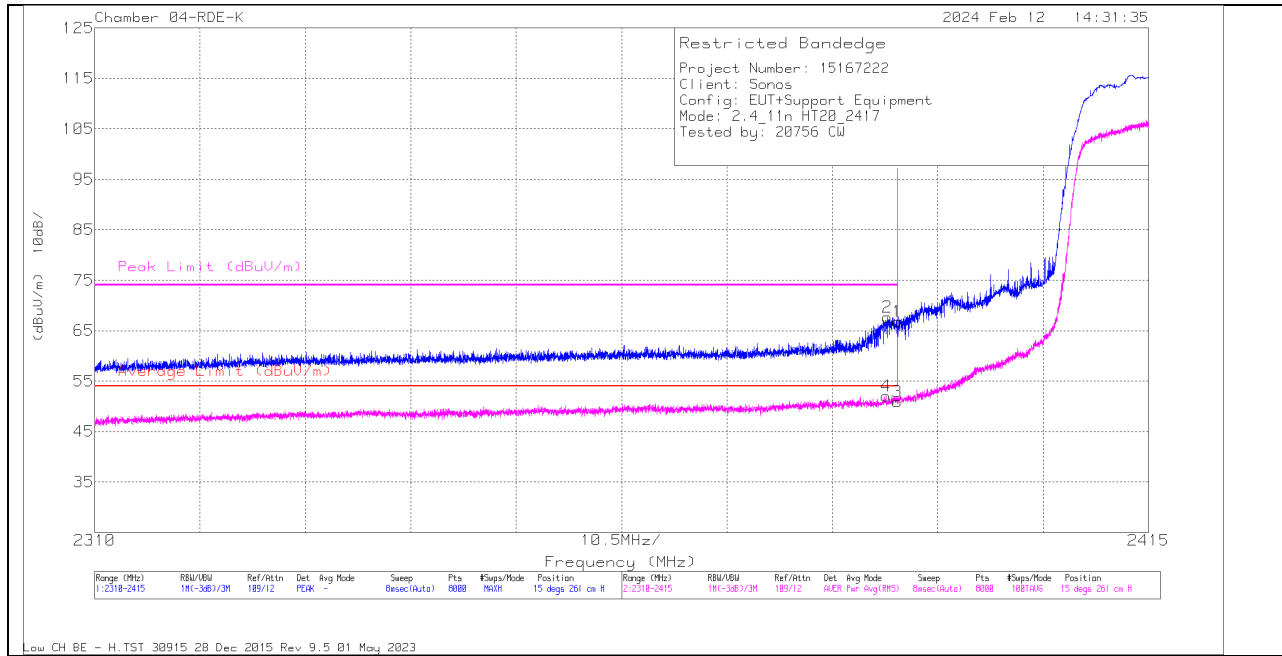
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

Marker	Frequency (MHz)	Meter Reading (dBmV)	Det	8040 ACPr (dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBmV)	Average Limit (dBmV)	Margin (dB)	Peak Limit (dBmV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2390	40.63	Pk	32.2	-11.3	0	61.53	-	-	74	-12.47	122	292	V
2	* 2389.235	43.15	Pk	32.2	-11.2	0	64.15	-	-	74	-9.85	122	292	V
3	* 2390	29.3	RMS	32.2	-11.3	58	50.78	54	-3.22	-	-	122	292	V
4	* 2389.195	30.35	RMS	32.2	-11.2	58	51.93	54	-2.07	-	-	122	292	V

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BANDEDGE (LOW CHANNEL, CH 2)

HORIZONTAL RESULT



Trace Markers

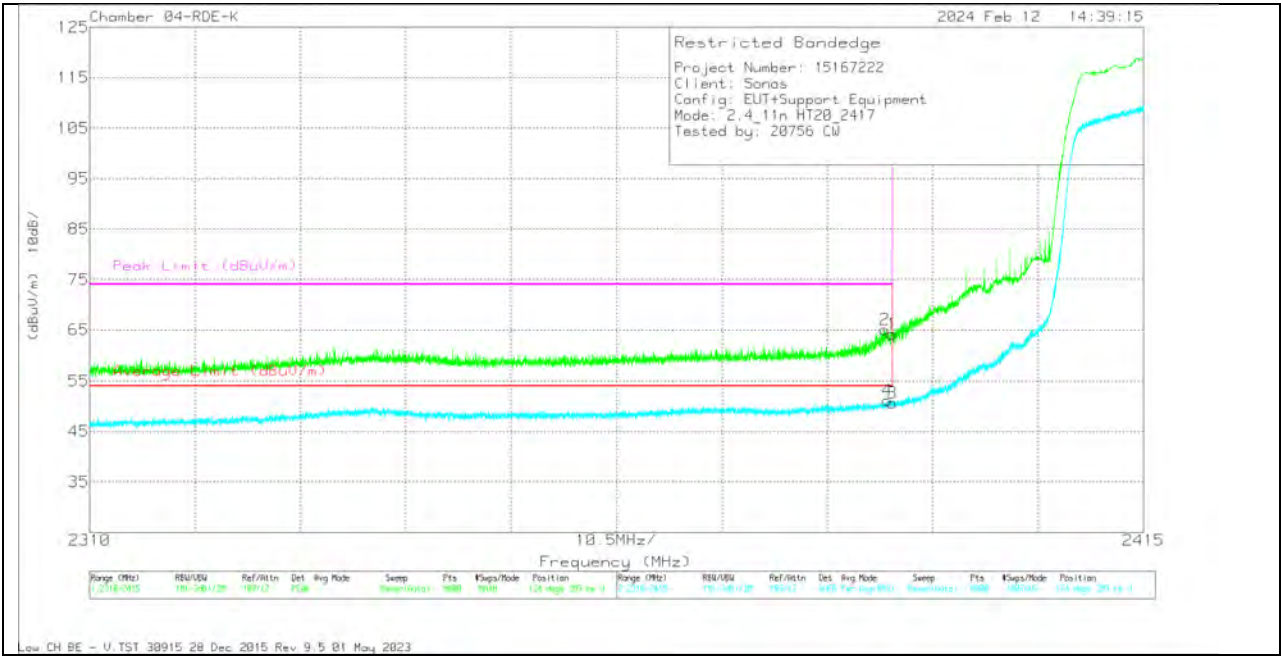
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (ft)	Height (cm)	Polarity
1	* 2380	45.93	PK	32.2	-11.3	0	66.83	-	-	74	-7.17	15	261	H
2	* 2388.959	46.68	PK	32.2	-11.2	0	67.68	-	-	74	-6.32	15	261	H
3	* 2390	29.37	RMS	32.2	-11.3	-58	50.85	54	-3.15	-	-	15	261	H
4	* 2388.867	30.43	RMS	32.2	-11.2	-58	52.01	54	-1.99	-	-	15	261	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



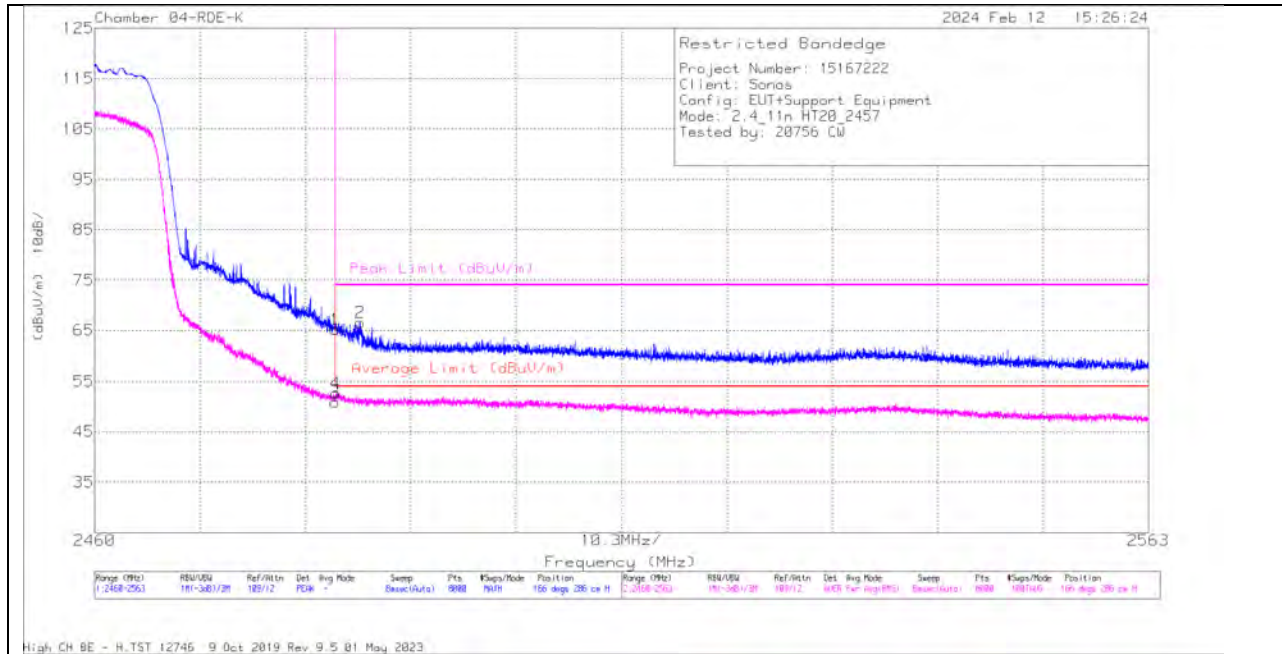
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	#Sigs/Mode	Chl/Amp (dB)	DCCF (dB)	Corrected Reading (dBm)	Average Limit (dBm)	Margin (dB)	Peak Limit (dBm)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2390	43.32	Pk	32.2	-11.3	0	64.22	-	-	74	-9.78	124	289	V
2	* 2389.208	44.05	Pk	32.2	-11.2	0	65.05	-	-	74	-8.95	124	289	V
3	* 2390	29.18	RMS	32.2	-11.3	58	50.66	54	-3.34	-	-	124	289	V
4	* 2389.484	29.53	RMS	32.2	-11.2	58	51.11	54	-2.89	-	-	124	289	V

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

BANDEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT



Trace Markers

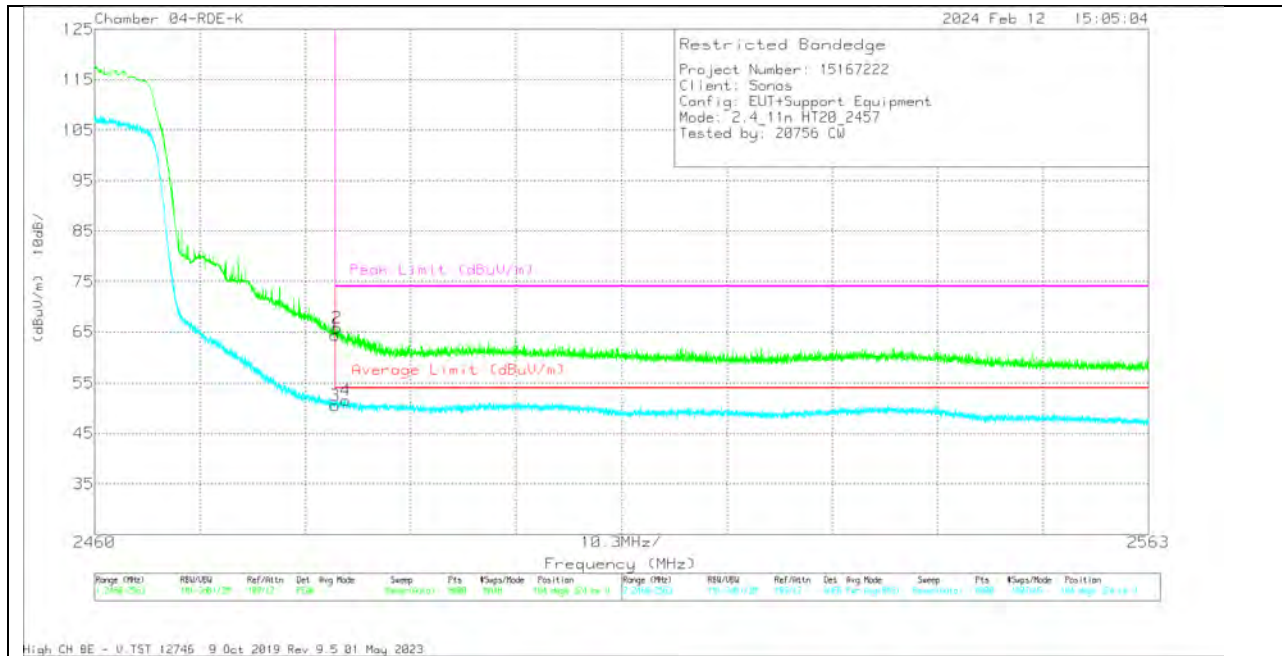
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACP(dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	44.01	Pk	32.2	-11	0	65.21	-	-	74	-8.79	166	286	H
2	* 2485.96	45.61	Pk	32.1	-11.1	0	66.61	-	-	74	-7.39	166	286	H
3	* 2483.5	29.07	RMS	32.2	-11	-58	50.85	54	-3.15	-	-	166	286	H
4	* 2483.552	30.87	RMS	32.2	-11	-58	52.65	54	-1.35	-	-	166	286	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



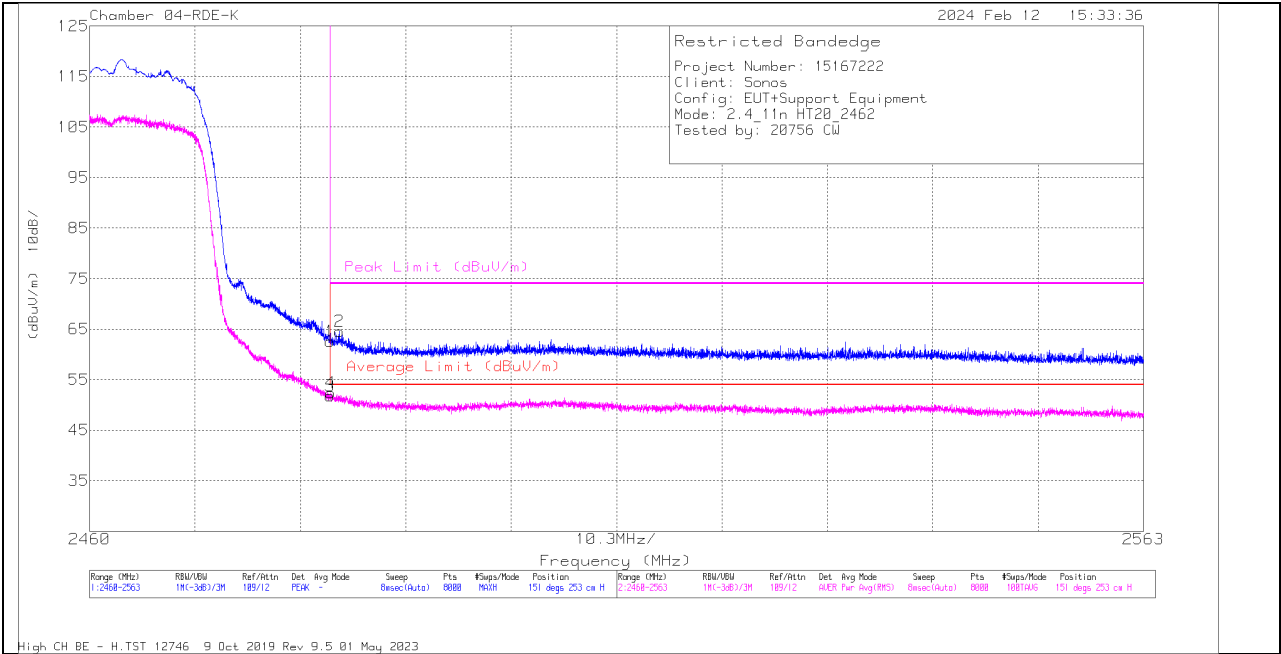
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80484 ACF(dBm)	Chl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2483.5	43.12	Pk	32.2	-11	0	64.32	-	-	74	-9.68	104	324	V
2	* 2483.694	44.64	Pk	32.2	-11	0	65.84	-	-	74	-8.16	104	324	V
3	* 2483.5	28.78	RMS	32.2	-11	-58	50.56	54	-3.44	-	-	104	324	V
4	* 2484.518	29.84	RMS	32.1	-11	-58	51.52	54	-2.48	-	-	104	324	V

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

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT

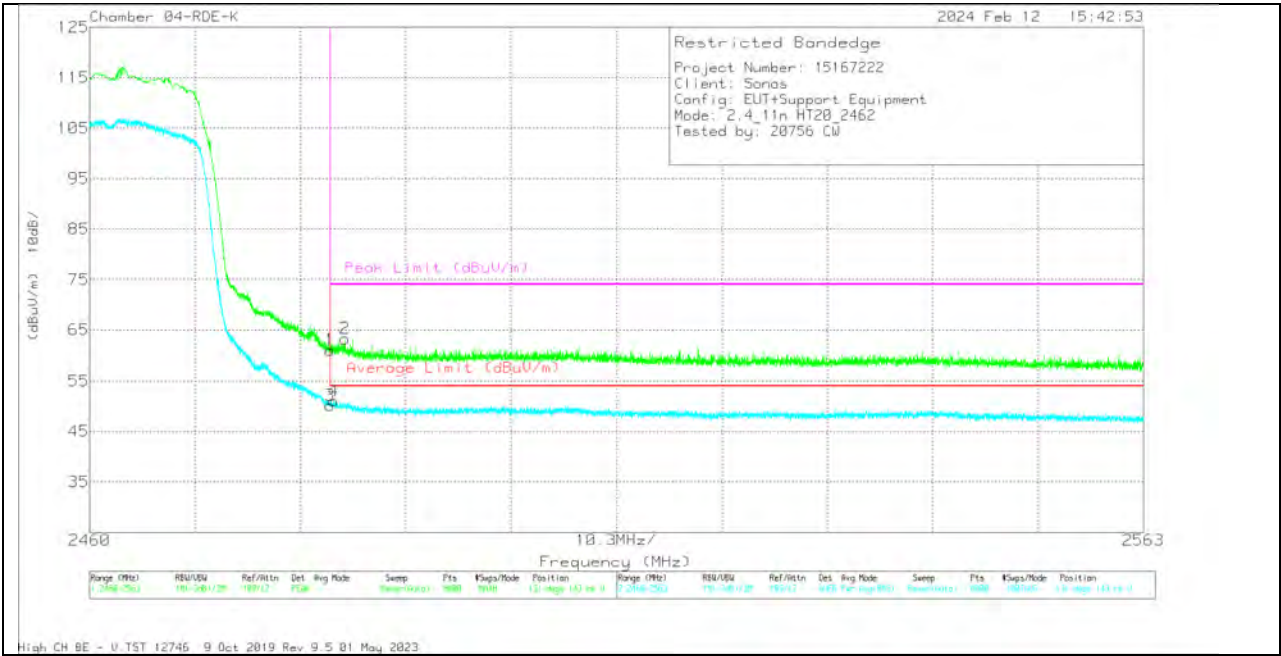


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dBm)	Cbl/Amp (dB)	DCCF (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	41.4	Pk	32.2	-11	0	62.6	-	-	74	-11.4	151	253	H
2	*2484.389	43.51	Pk	32.1	-11	0	64.61	-	-	74	-9.39	151	253	H
3	*2483.5	29.96	RMS	32.2	-11	58	51.74	54	-2.26	-	-	151	253	H
4	*2483.552	30.59	RMS	32.2	-11	58	52.37	54	-1.63	-	-	151	253	H

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

VERTICAL RESULT



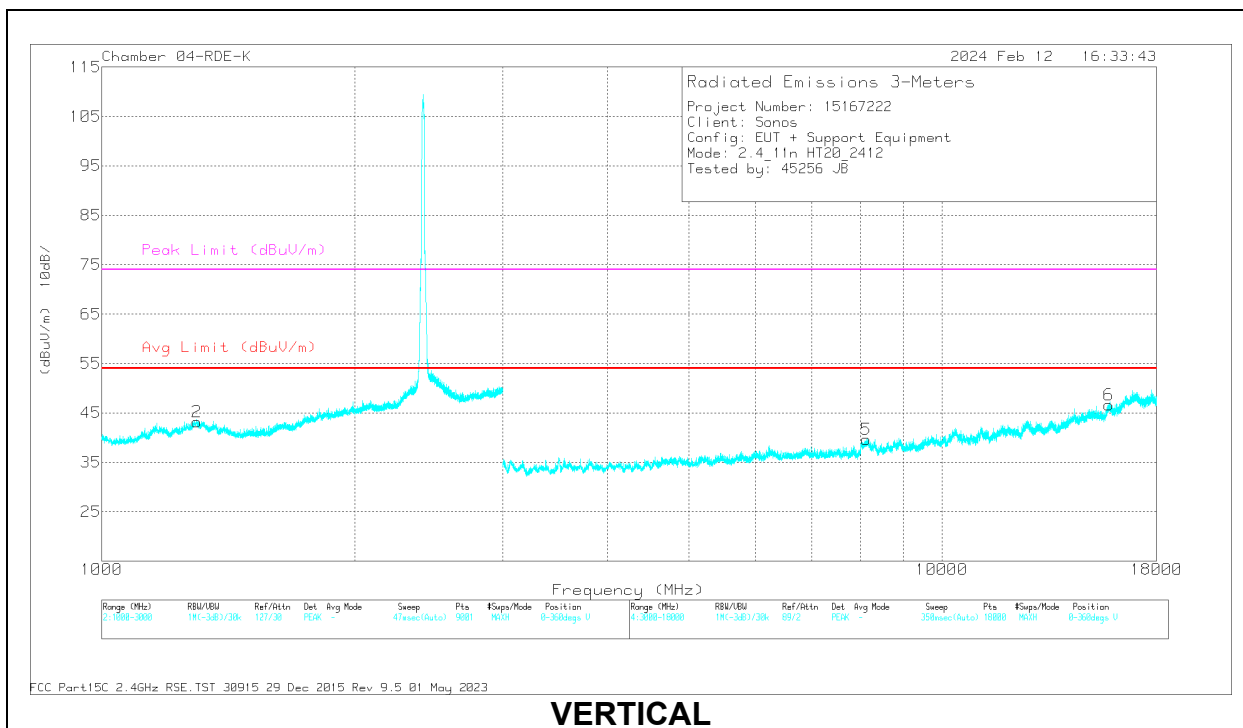
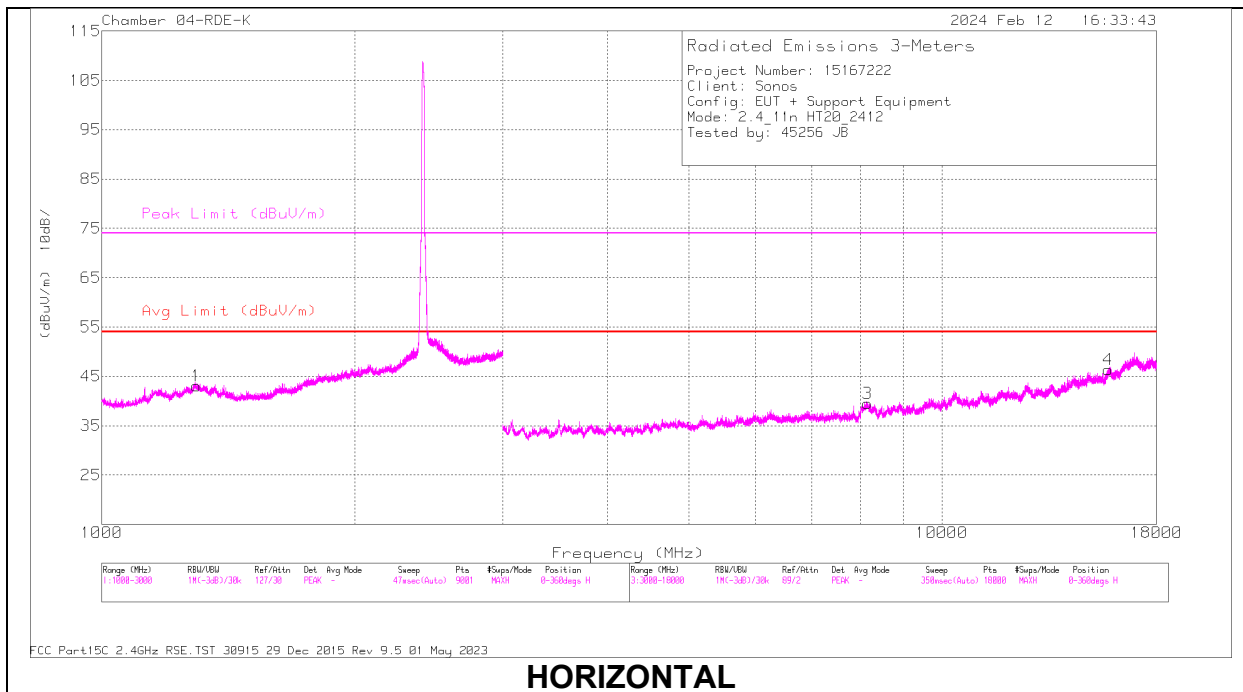
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80484 ACI(dBm)	Chl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	39.9	Pk	32.2	-11	0	61.1	-	-	74	-12.9	131	143	V
2	* 2484.981	42.28	Pk	32.1	-11	0	63.38	-	-	74	-10.62	131	143	V
3	* 2483.5	28.34	RMS	32.2	-11	-58	50.12	54	-3.88	-	-	131	143	V
4	* 2483.848	29.21	RMS	32.2	-11	-58	50.99	54	-3.01	-	-	131	143	V

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

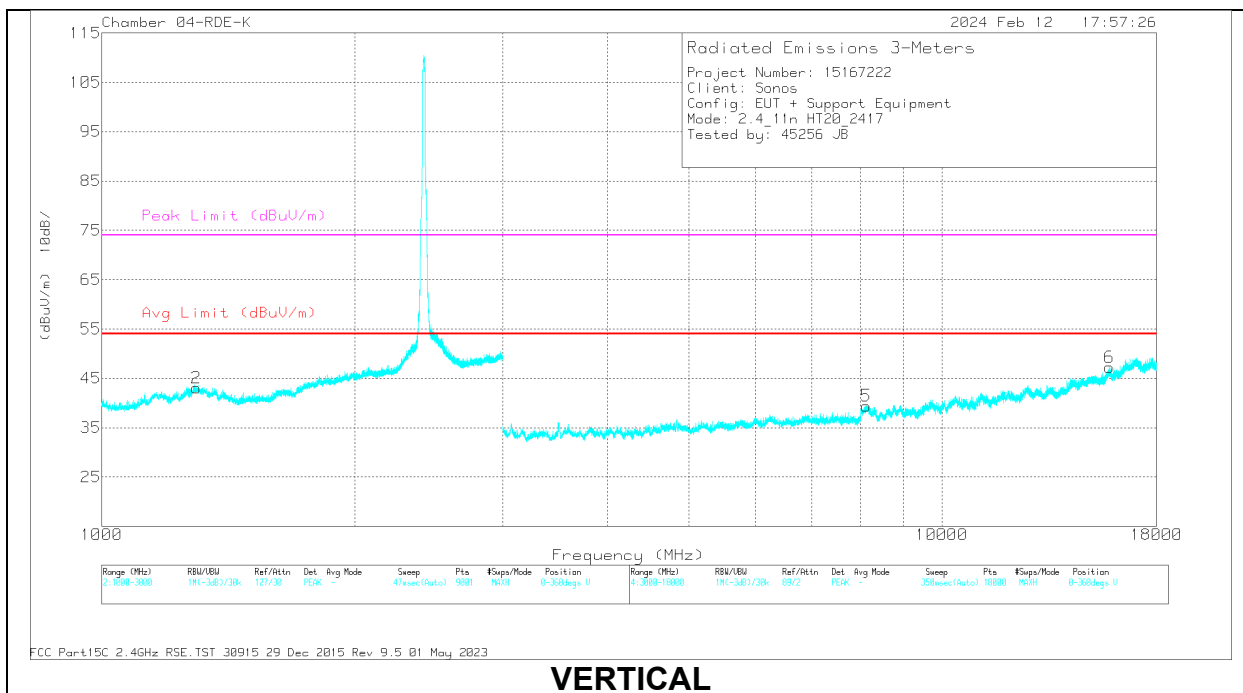
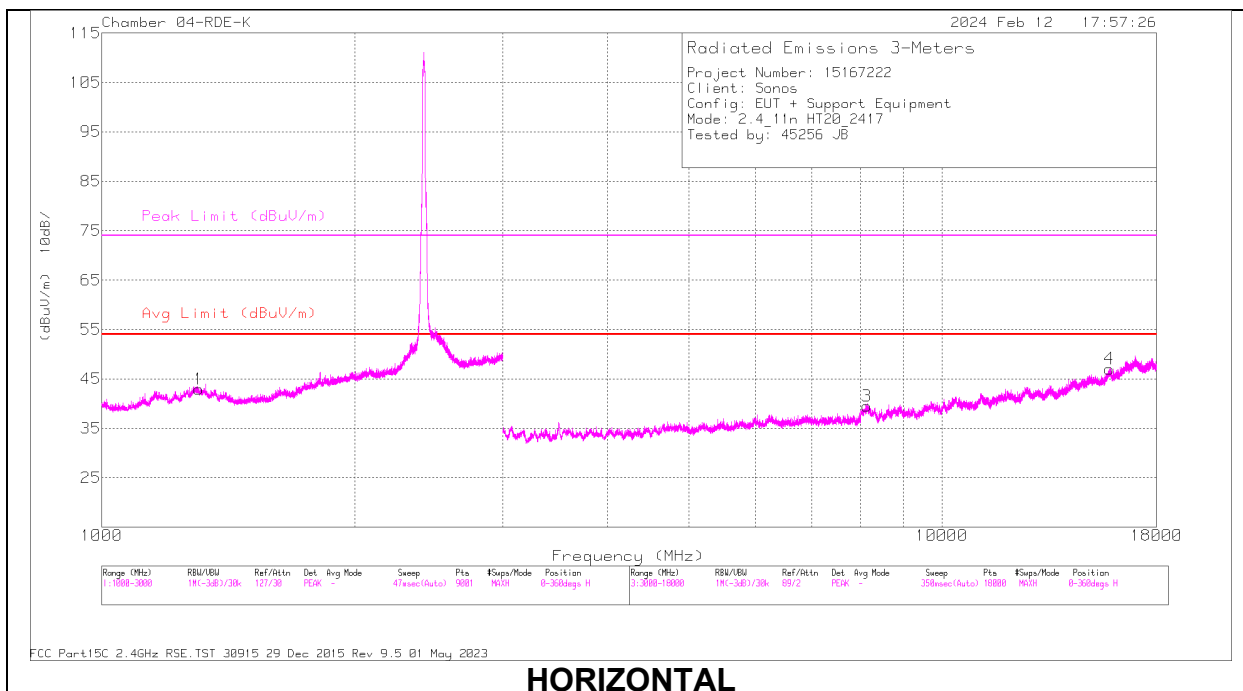
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90404 ACF (dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1295.446	59.86	PK2	29.4	-36.2	0	53.06	-	-	74	-20.94	331	374	H
	* 1294.628	48.43	MAv1	29.4	-36.2	.58	42.21	54	-11.79	-	-	331	374	H
2	* 1298.696	60.31	PK2	29.3	-36.2	0	53.41	-	-	74	-20.59	119	389	V
	* 1298.87	48.35	MAv1	29.3	-36.2	.58	42.03	54	-11.97	-	-	119	389	V
3	* 8152.748	49.78	PK2	36.1	-37	0	48.88	-	-	74	-25.12	185	335	H
	* 8153.246	38.82	MAv1	36.1	-37	.58	38.50	54	-15.50	-	-	185	335	H
4	* 15774.067	46.45	PK2	40.8	-31.9	0	55.35	-	-	74	-18.65	41	371	H
	* 15772.18	35.37	MAv1	40.9	-31.8	.58	45.05	54	-8.95	-	-	41	371	H
5	* 8123.387	60.51	PK2	36	-36.8	0	49.71	-	-	74	-24.29	196	209	V
	* 8119.743	38.45	MAv1	36.1	-36.9	.58	38.23	54	-15.77	-	-	196	209	V
6	* 15798.108	47.51	PK2	40.9	-31.9	0	56.51	-	-	74	-17.49	262	317	V
	* 15797.361	35.13	MAv1	40.9	-31.9	.58	44.71	54	-9.29	-	-	262	317	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LOW CHANNEL, CH 2 RESULTS

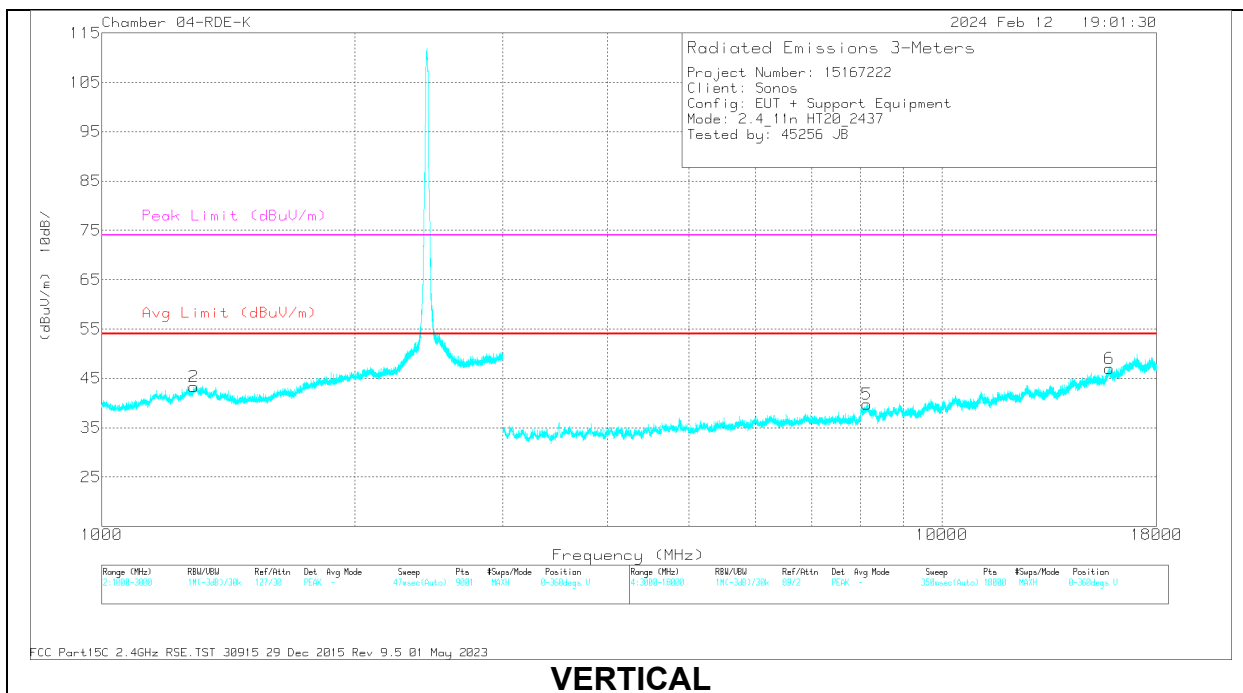
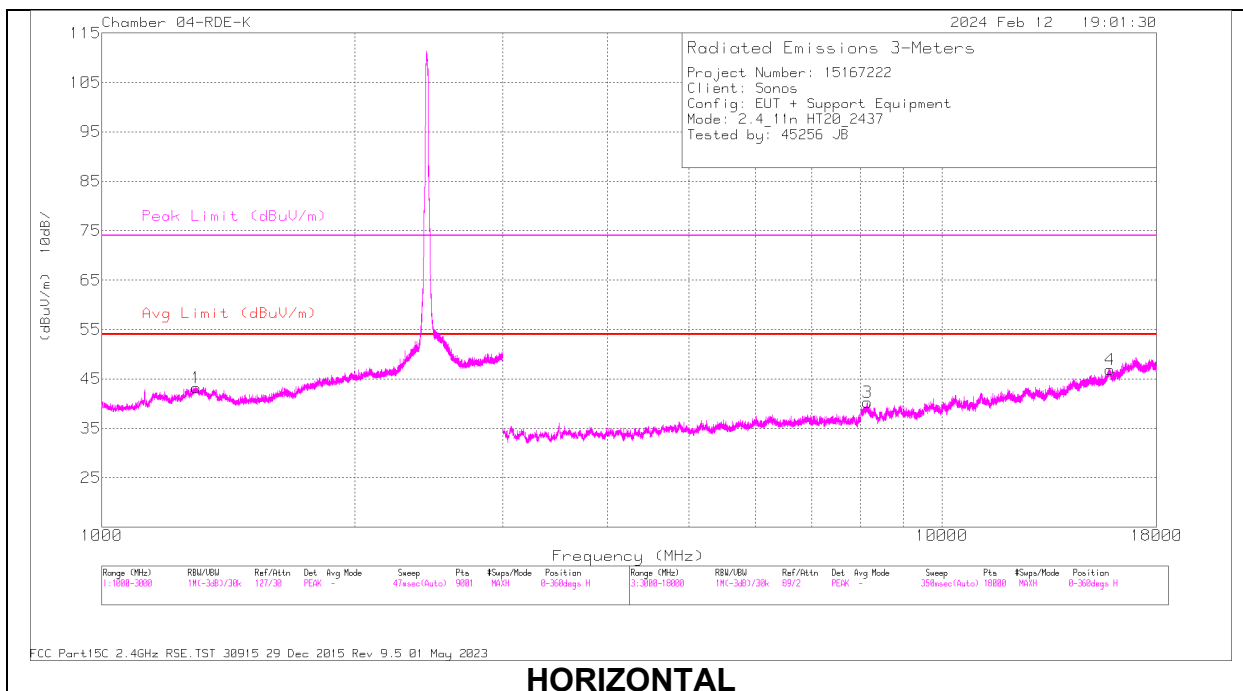


RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1305.407	59.89	PK2	28.9	-36.2	0	52.59	-	-	74	-21.41	24	206	H
	* 1304.502	48.16	MAv1	28.9	-36.2	.58	41.44	54	-12.56	-	-	24	206	H
2	* 1294.695	60.1	PK2	29.4	-36.2	0	53.3	-	-	74	-20.7	170	351	V
	* 1295.55	48.31	MAv1	29.4	-36.2	.58	42.09	54	-11.91	-	-	170	351	V
3	* 8142.306	50.17	PK2	35.9	-36.9	0	49.17	-	-	74	-24.83	98	182	H
	* 8140.647	38.61	MAv1	35.9	-36.8	.58	38.29	54	-15.71	-	-	98	182	H
4	* 15834.398	46.53	PK2	40.9	-31.5	0	55.93	-	-	74	-18.07	11	122	H
	* 15833.286	34.94	MAv1	40.9	-31.6	.58	44.82	54	-9.18	-	-	11	122	H
5	* 8130.433	50.35	PK2	36	-36.9	0	49.45	-	-	74	-24.55	318	254	V
	* 8130.693	38.7	MAv1	36	-36.8	.58	38.3	54	-15.7	-	-	318	254	V
6	* 15830.535	46.86	PK2	40.9	-31.6	0	56.16	-	-	74	-17.84	85	381	V
	* 15830.017	35.36	MAv1	40.9	-31.6	.58	45.24	54	-8.76	-	-	85	381	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

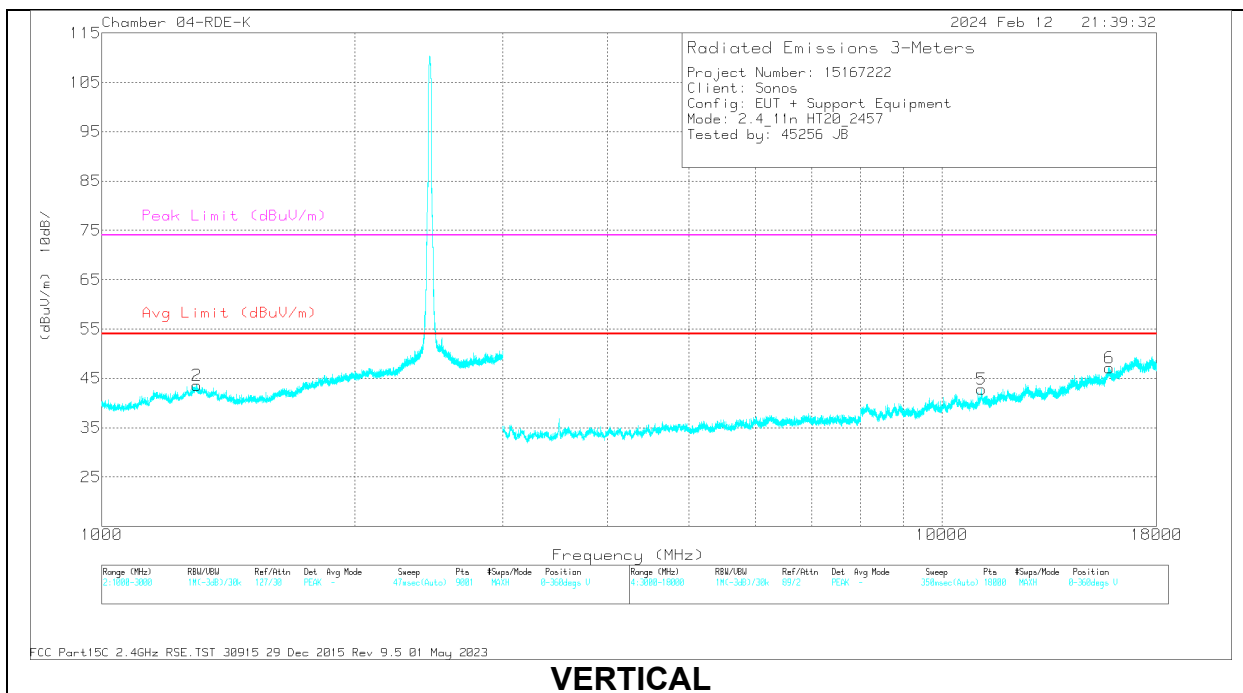
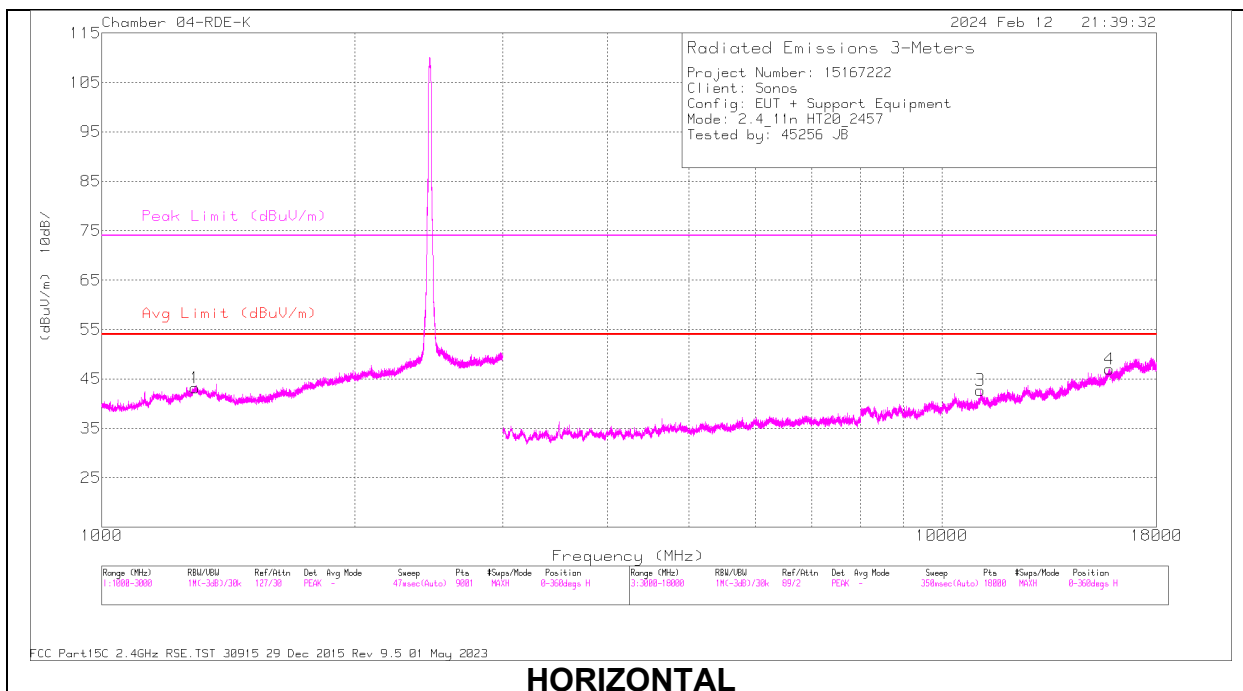
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1298.25	59.49	PK2	29.3	-36.1	0	52.69	-	-	74	-21.31	255	132	H
	* 1298.121	48.28	MAv1	29.3	-36.1	.58	42.06	54	-11.94	-	-	255	132	H
2	* 1287.38	60.01	PK2	29.2	-36.3	0	52.91	-	-	74	-21.09	9	358	V
	* 1286.65	48.31	MAv1	29.2	-36.3	.58	41.79	54	-12.21	-	-	9	358	V
3	* 8158.734	49.94	PK2	36	-37	0	48.94	-	-	74	-25.06	351	358	H
	* 8158.317	38.77	MAv1	36	-36.9	.58	38.45	54	-15.55	-	-	351	358	H
4	* 15845.991	47.06	PK2	40.9	-31.7	0	56.26	-	-	74	-17.74	271	396	H
	* 15848.199	35.57	MAv1	40.9	-31.7	.58	45.35	54	-8.65	-	-	271	396	H
5	* 8143.646	50.07	PK2	36	-36.9	0	49.17	-	-	74	-24.83	46	235	V
	* 8144.63	38.67	MAv1	35.9	-36.9	.58	38.25	54	-15.75	-	-	46	235	V
6	* 15827.503	47.71	PK2	40.9	-31.7	0	56.91	-	-	74	-17.09	324	282	V
	* 15825.768	35.14	MAv1	40.8	-31.7	.58	44.82	54	-9.18	-	-	324	282	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 10 RESULTS

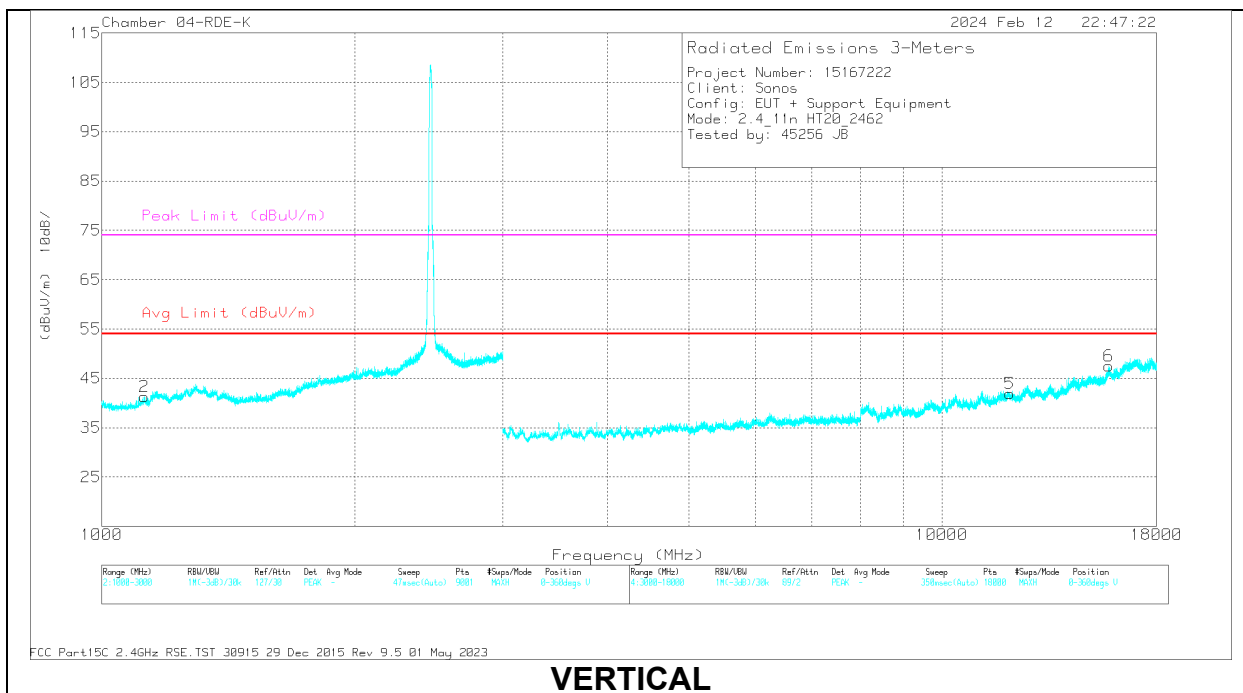
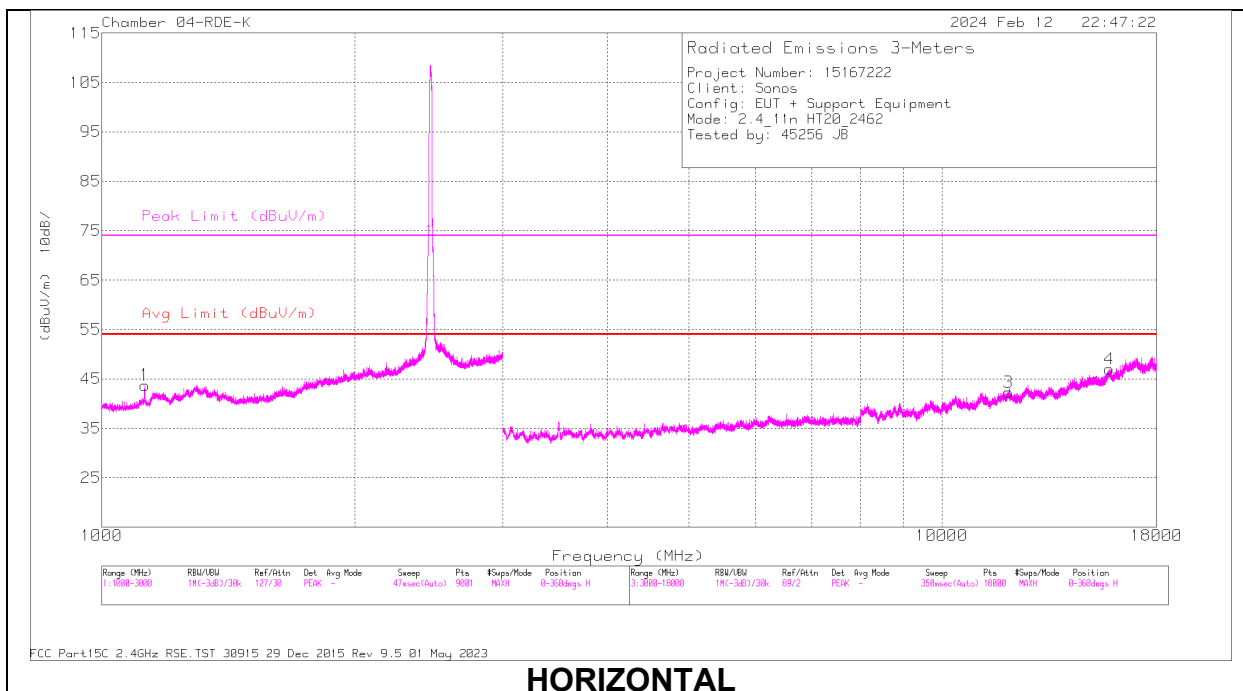


RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1290.224	59.98	PK2	29.4	-36.3	0	53.08	-	-	74	-20.92	72	282	H
	* 1290.825	48.24	MAv1	29.4	-36.3	.58	41.92	54	-12.08	-	-	72	282	H
	* 1297.046	60.26	PK2	29.3	-36.2	0	53.36	-	-	74	-20.64	57	296	V
2	* 1295.301	48.08	MAv1	29.4	-36.2	.58	41.86	54	-12.14	-	-	57	296	V
	* 11111.007	49.41	PK2	37.9	-35.5	0	51.81	-	-	74	-22.19	261	374	H
	* 11113.199	37.52	MAv1	37.8	-35.7	.58	40.20	54	-13.80	-	-	261	374	H
4	* 15829.355	46.63	PK2	40.9	-31.7	0	55.83	-	-	74	-18.17	175	309	H
	* 15827.201	35.25	MAv1	40.9	-31.7	.58	45.03	54	-8.97	-	-	175	309	H
	* 11148.086	48.97	PK2	38	-35.2	0	51.77	-	-	74	-22.23	122	257	V
5	* 11145.876	37.53	MAv1	38	-35.1	.58	41.01	54	-12.99	-	-	122	257	V
	* 15831.534	46.39	PK2	40.9	-31.6	0	55.69	-	-	74	-18.31	311	172	V
	* 15832.616	35.05	MAv1	40.9	-31.6	.58	44.93	54	-9.07	-	-	311	172	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB/m)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1125.121	61.42	PK2	27.9	-36.9	0	52.42	-	-	74	-21.58	241	119	H
	* 1124.936	50.89	MAv1	27.9	-36.9	.58	42.47	54	-11.53	-	-	241	119	H
2	* 1125.008	60.76	PK2	27.9	-36.9	0	51.76	-	-	74	-22.24	207	326	V
	* 1124.972	49.98	MAv1	27.9	-36.9	.58	41.56	54	-12.44	-	-	207	326	V
3	* 11997.639	46.93	PK2	38.7	-33.9	0	51.73	-	-	74	-22.27	351	181	H
	* 11999.49	35.22	MAv1	38.7	-33.9	.58	40.60	54	-13.40	-	-	351	181	H
4	* 15825.548	46.87	PK2	40.8	-31.7	0	55.97	-	-	74	-18.03	8	161	H
	* 15823.619	35.09	MAv1	40.8	-31.7	.58	44.77	54	-9.23	-	-	8	161	H
5	* 12040.326	46.91	PK2	38.8	-33.8	0	51.91	-	-	74	-22.09	83	331	V
	* 12038.086	35.4	MAv1	38.7	-33.9	.58	40.6	54	-13.0	-	-	83	331	V
6	* 15804.605	46.73	PK2	40.9	-31.9	0	55.73	-	-	74	-18.27	196	132	V
	* 15805.272	35.05	MAv1	40.9	-31.9	.58	44.63	54	-9.33	-	-	196	132	V

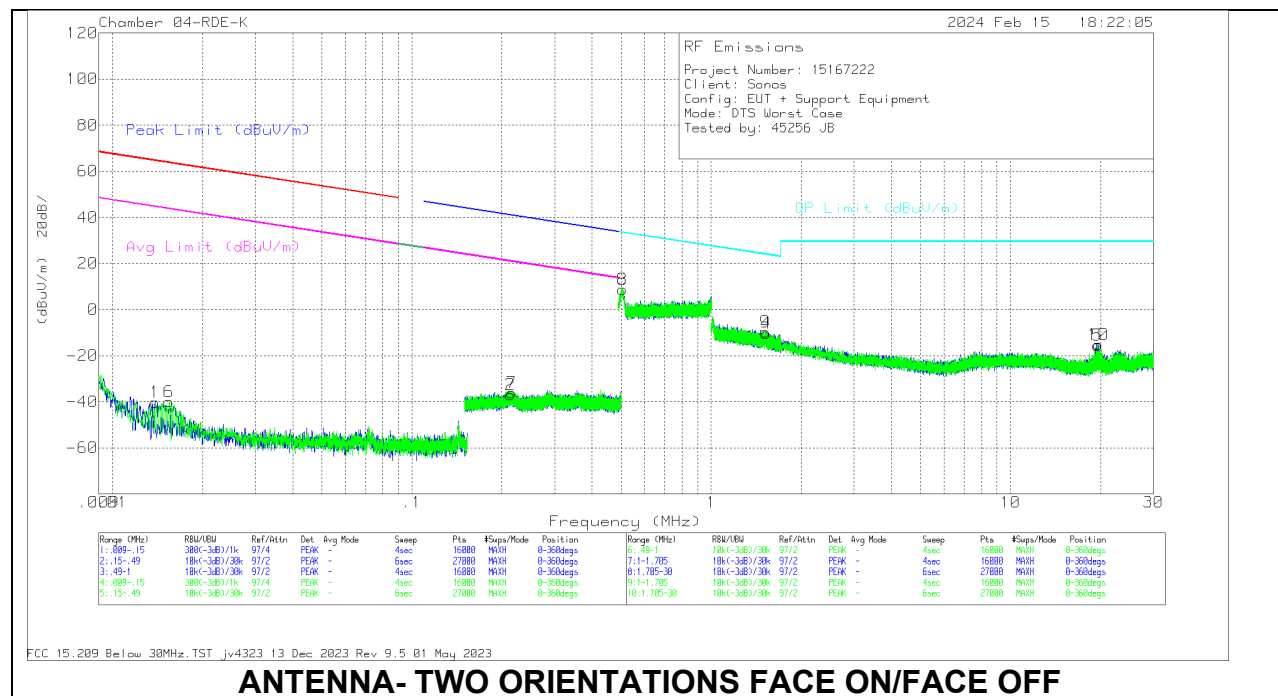
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2. WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



Below 30MHz Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E ACF (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.0139	11.2	Pk	59.9	-31.2	-80	-40.1	64.73	-104.83	44.73	-84.83	-	-	-	-	0-360
6	.0155	11.75	Pk	59.7	-31.4	-80	-39.95	63.8	-103.75	43.8	-83.75	-	-	-	-	0-360
2	.2135	18.82	Pk	56.3	-32.1	-80	-36.98	-	-	-	-	41.03	-78.01	21.03	-58.01	0-360
7	.2152	19.71	Pk	56.3	-32.1	-80	-36.09	-	-	-	-	40.96	-77.05	20.96	-57.05	0-360

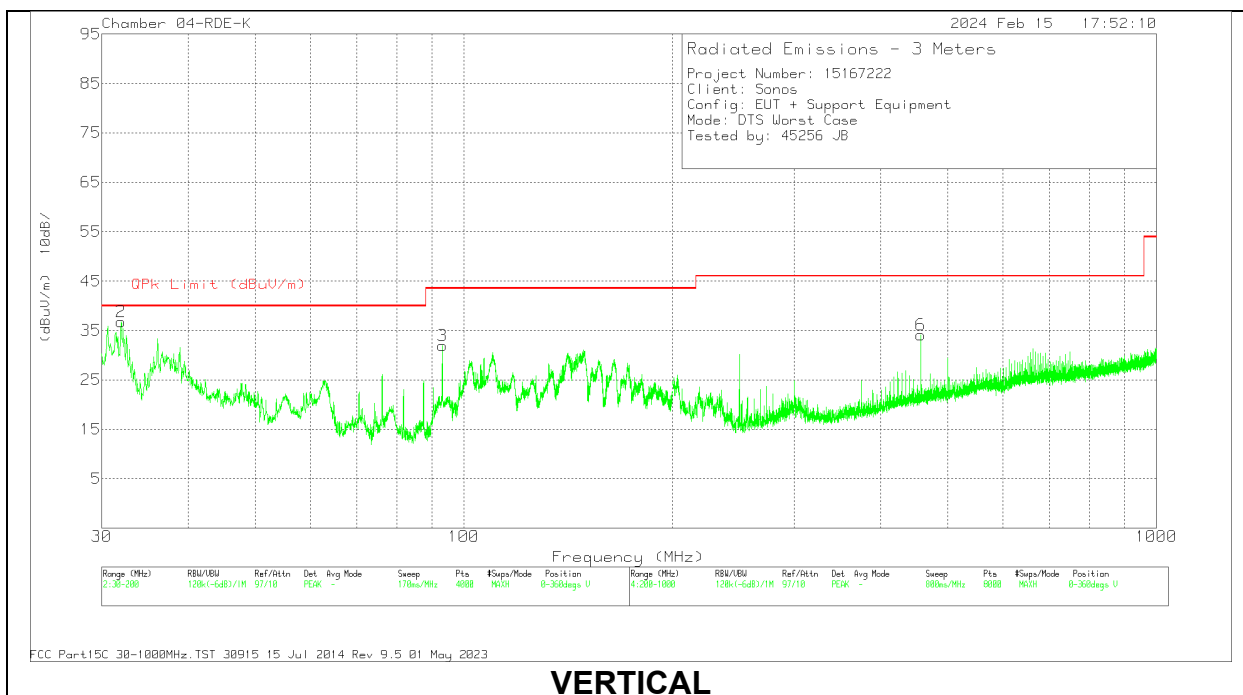
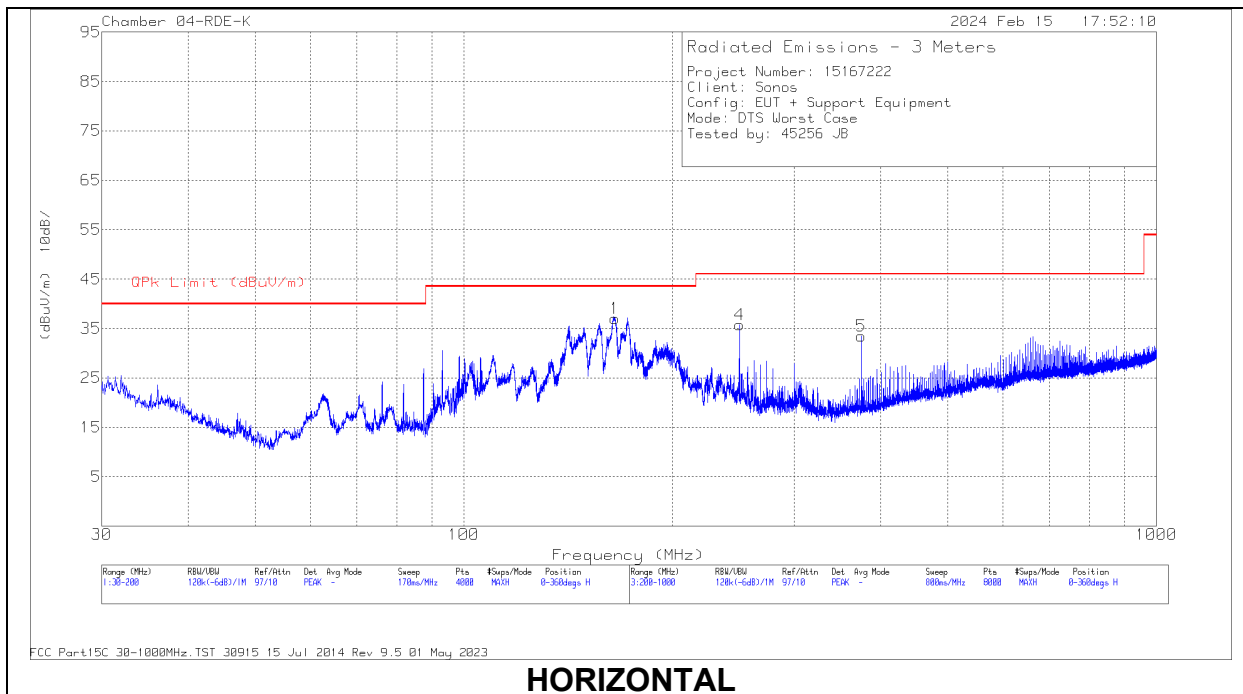
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E ACF (dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.5063	24.61	Pk	56.2	-32.1	-40	8.71	33.52	-24.81	0-360
8	.5063	24.73	Pk	56.2	-32.1	-40	8.83	33.52	-24.69	0-360
9	1.5181	18.3	Pk	44	-32	-40	-9.7	24.01	-33.71	0-360
4	1.5257	17.83	Pk	44	-32	-40	-10.17	23.96	-34.13	0-360
5	19.5566	21.45	Pk	34.5	-31.4	-40	-15.45	29.5	-44.95	0-360
10	19.6111	21.77	Pk	34.5	-31.5	-40	-15.23	29.5	-44.73	0-360

Pk - Peak detector

10.3. WORST CASE BELOW 1 GHz

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



Below 1GHz Data

Trace Markers

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	* 165.398	49.21	Pk	18	-30.2	37.01	43.52	-6.51	0-360	199	H
4	* 250.007	48.07	Pk	17.3	-29.6	35.77	46.02	-10.25	0-360	99	H
2	31.998	43.12	Pk	25.1	-31.4	36.82	40	-3.18	0-360	100	V
3	93.1714	48.14	Pk	14.5	-30.7	31.94	43.52	-11.58	0-360	100	V
5	374.923	42.02	Pk	20.8	-29.4	33.42	46.02	-12.6	0-360	99	H
6	456.533	40.02	Pk	22.9	-28.8	34.12	46.02	-11.9	0-360	299	V

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

Radiated Emissions

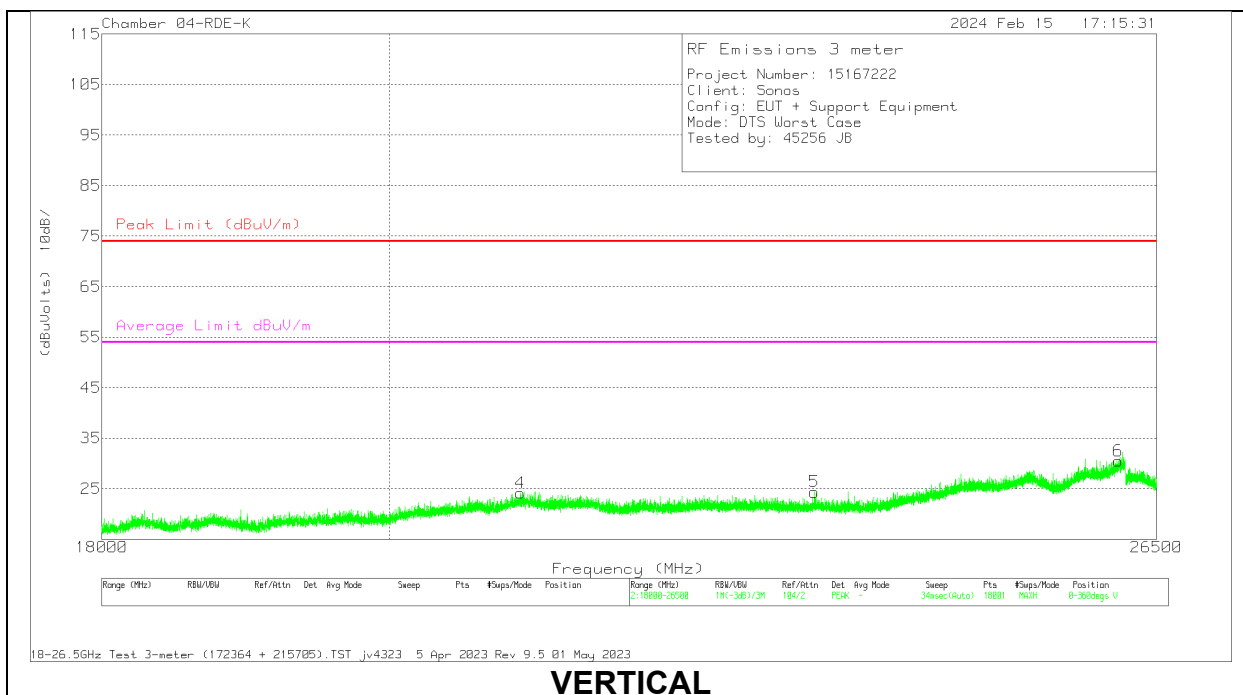
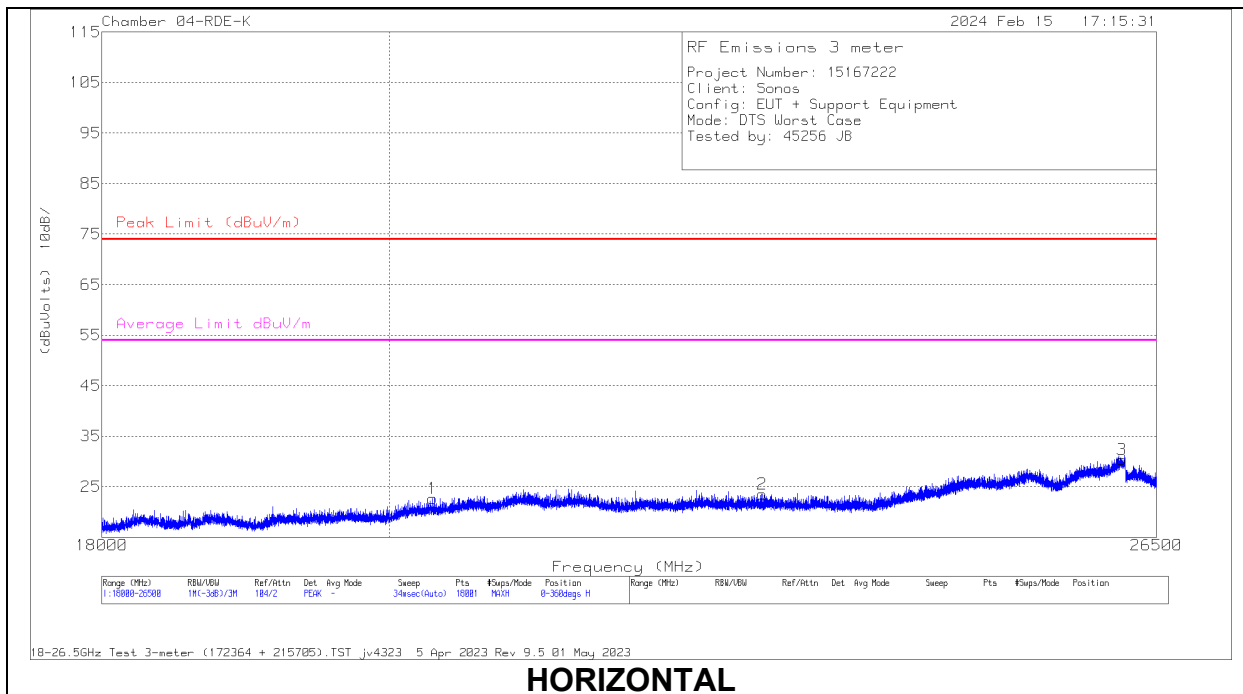
Frequency (MHz)	Meter Reading (dBuV)	Det	232075 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
32.0425	40.01	Pk	25.1	-31.4	33.71	40	-6.29	234	116	V
32.0425	34.82	Qp	25.1	-31.4	28.52	40	-11.48	234	116	V

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

Pk - Peak detector
Qp - Quasi-Peak detector

10.4. WORST CASE 18-26 GHz

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



18 – 26GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	172364 AF (dBm)	215705 Amp Kit (dB)	Cables (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	* 20322.86	30.81	Pk	33	-59.9	18.8	22.71	74	-51.29	-	-	0-360	200	H
2	* 22931.887	30.94	Pk	33.7	-61.1	20	23.54	74	-50.46	-	-	0-360	200	H
4	* 20985.387	31.35	Pk	33.2	-59.6	19.2	24.15	74	-49.85	-	-	0-360	200	V
5	23373.414	31.14	Pk	34	-61	20.2	24.34	74	-49.66	-	-	0-360	200	V
6	26132.607	35.02	Pk	34.7	-60.7	21.5	30.52	74	-43.48	-	-	0-360	100	V
3	26168.496	34.99	Pk	34.7	-60.8	21.5	30.39	74	-43.61	-	-	0-360	200	H

* - 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 (dBuV)	
	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.

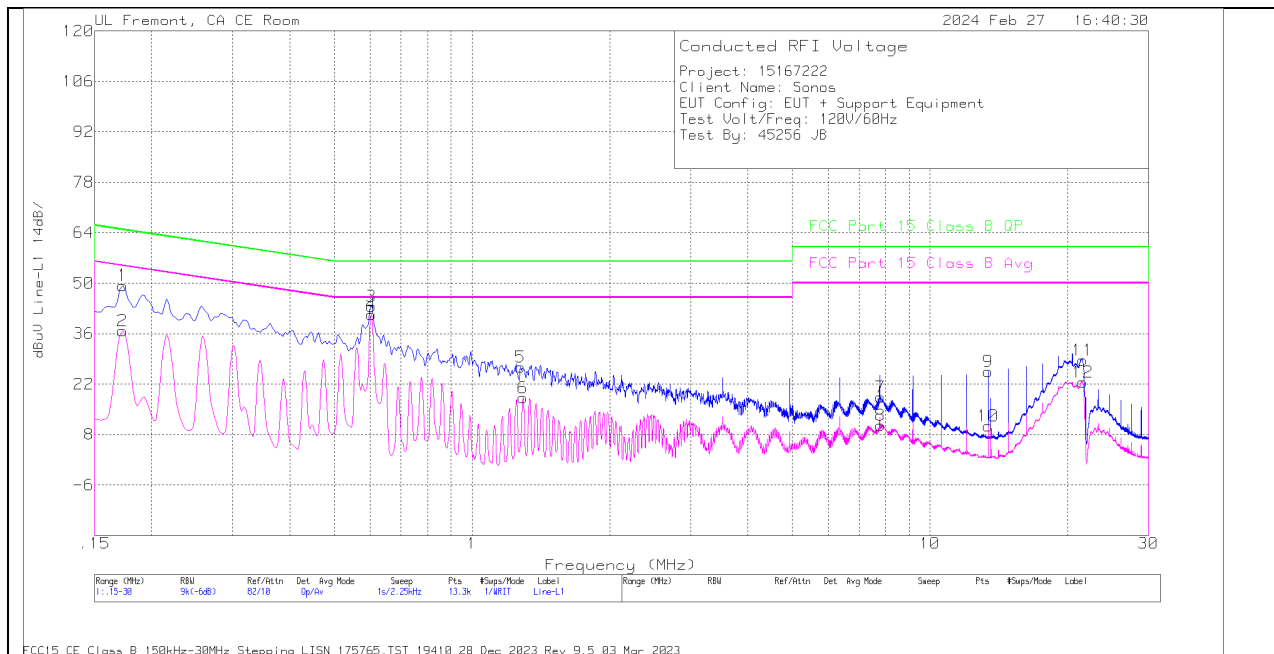
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. AC Power Line Norm

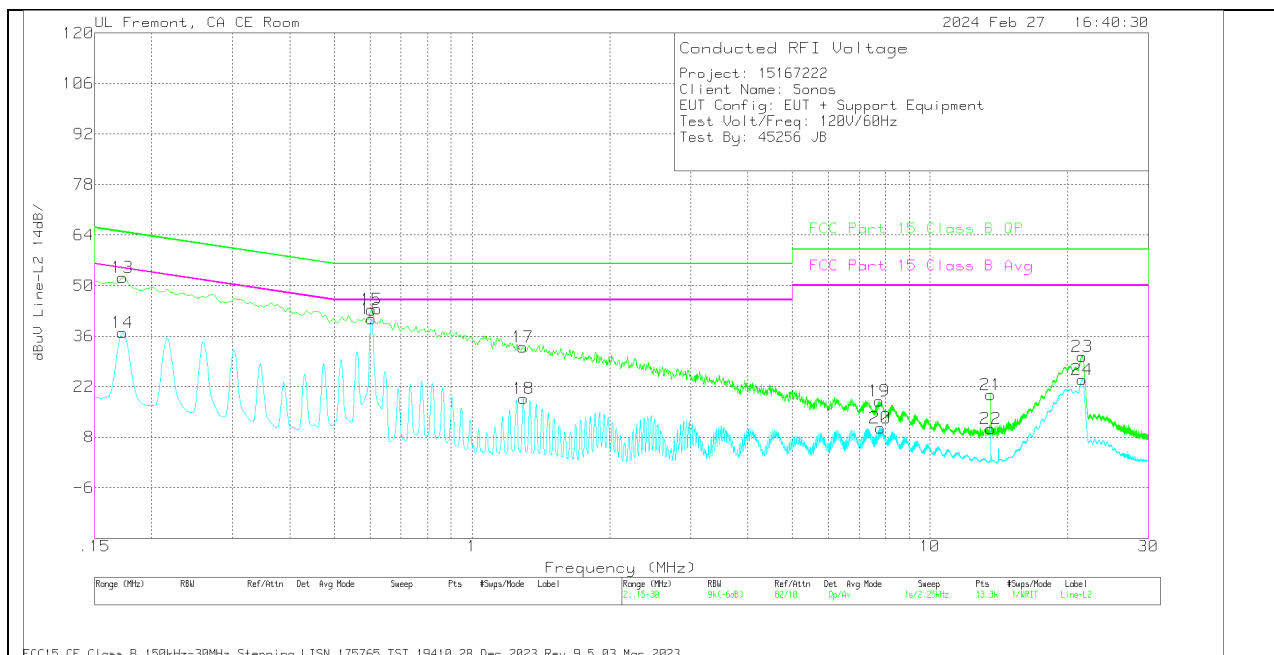
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP	QP Margin (dB)	FCC Part 15 Class B Avg	Av Margin (dB)
2	.1725	27.36	Av	0	0	9.5	36.86	-	-	54.84	-17.98
4	.6023	31.93	Av	0	0	9.4	41.33	-	-	46	-4.67
6	1.293	8.77	Av	0	0	9.4	18.17	-	-	46	-27.83
8	7.7865	1	Av	0	.2	9.4	10.6	-	-	50	-39.4
10	13.407	.62	Av	.1	.2	9.4	10.32	-	-	50	-39.68
12	21.5295	12.67	Av	.2	.2	9.4	22.47	-	-	50	-27.53
1	.1725	39.89	Qp	0	0	9.5	49.39	64.84	-15.45	-	-
3	.6023	34.18	Qp	0	0	9.4	43.58	56	-12.42	-	-
5	1.2773	17.33	Qp	0	0	9.4	26.73	56	-29.27	-	-
7	7.7865	8.79	Qp	0	.2	9.4	18.39	60	-41.61	-	-
9	13.407	15.76	Qp	.1	.2	9.4	25.46	60	-34.54	-	-
11	21.5318	18.83	Qp	.2	.2	9.4	28.63	60	-31.37	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP	QP Margin (dB)	FCC Part 15 Class B Avg	Av Margin (dB)
14	.1725	27.49	Av	0	0	9.5	36.99	-	-	54.84	-17.85
16	.6023	31.28	Av	0	.1	9.4	40.78	-	-	46	-5.22
18	1.2953	9.25	Av	0	0	9.4	18.65	-	-	46	-27.35
20	7.7843	1.12	Av	0	.1	9.4	10.62	-	-	50	-39.38
22	13.56	.62	Av	.1	.2	9.5	10.42	-	-	50	-39.58
24	21.4609	13.99	Av	.2	.3	9.4	23.89	-	-	50	-26.11
13	.1725	42.75	Qp	0	0	9.5	52.25	64.84	-12.59	-	-
15	.6023	33.81	Qp	0	.1	9.4	43.31	56	-12.69	-	-
17	1.293	23.64	Qp	0	0	9.4	33.04	56	-22.96	-	-
19	7.7438	8.36	Qp	0	.2	9.4	17.96	60	-42.04	-	-
21	13.56	9.89	Qp	.1	.2	9.5	19.69	60	-40.31	-	-
23	21.462	20.47	Qp	.2	.3	9.4	30.37	60	-29.63	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection