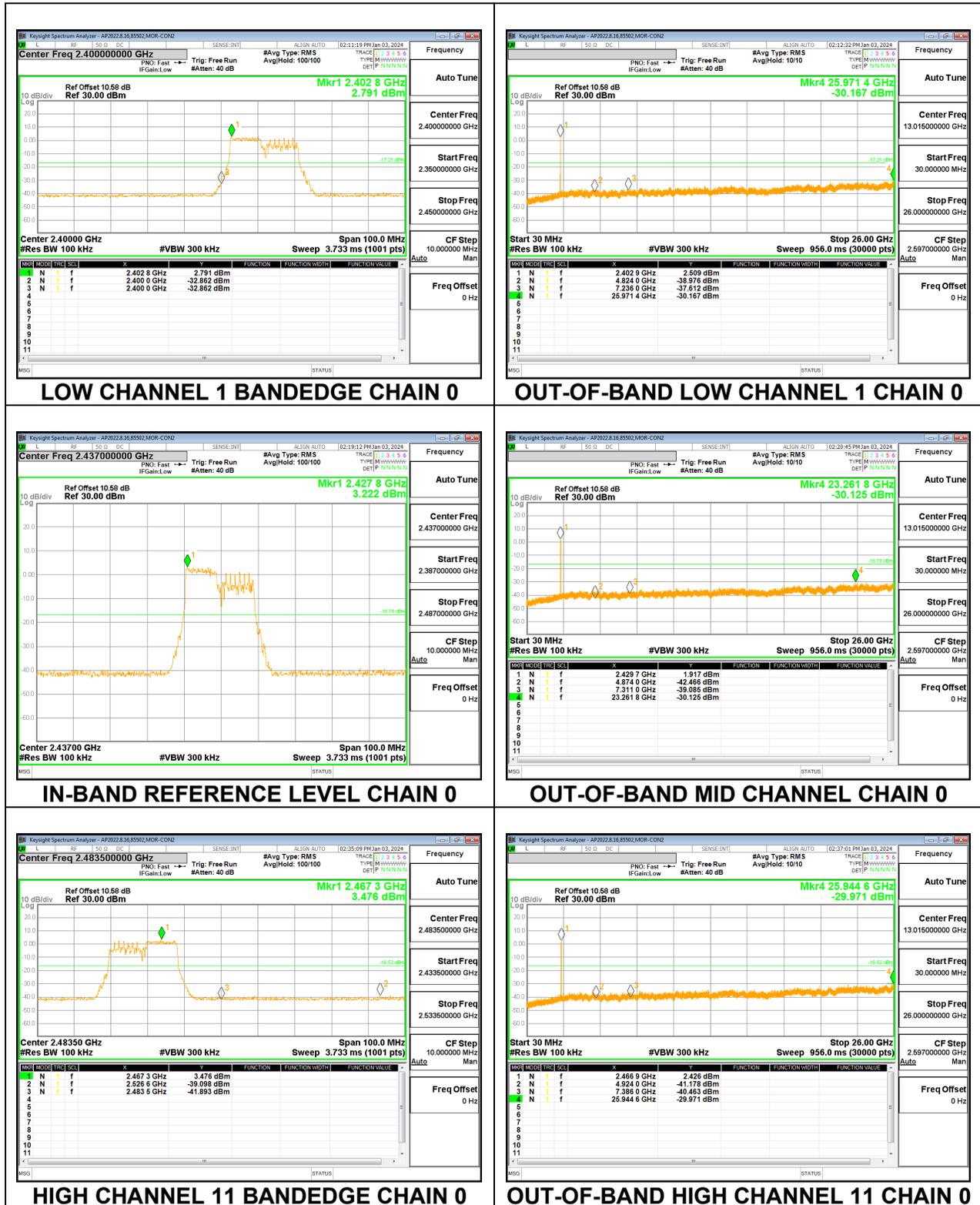
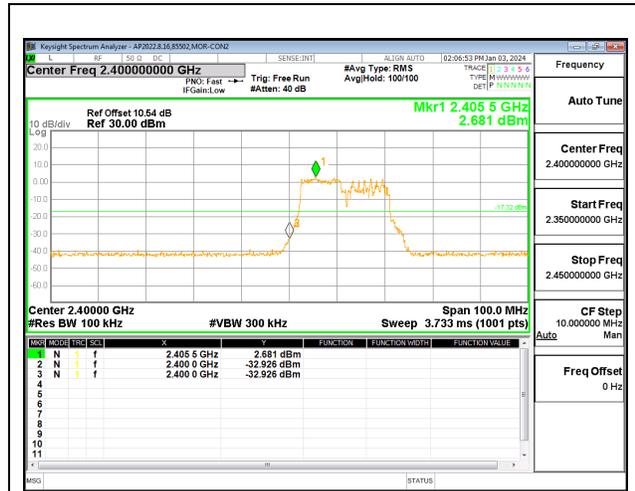


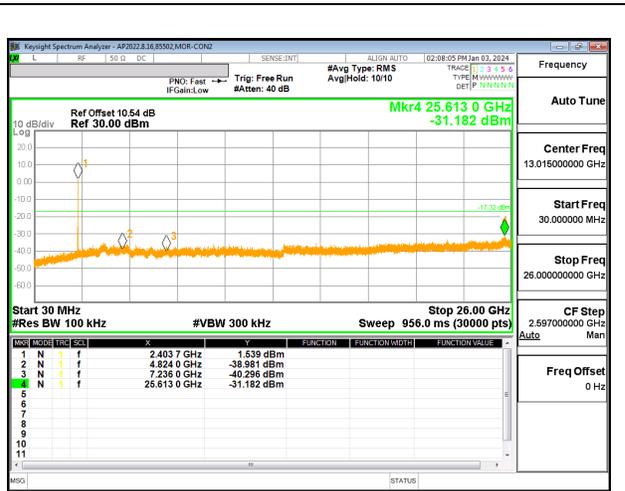
9.6.6. 802.11ax HE20 106T MODE

2TX Chain 0 + Chain 1 MODE

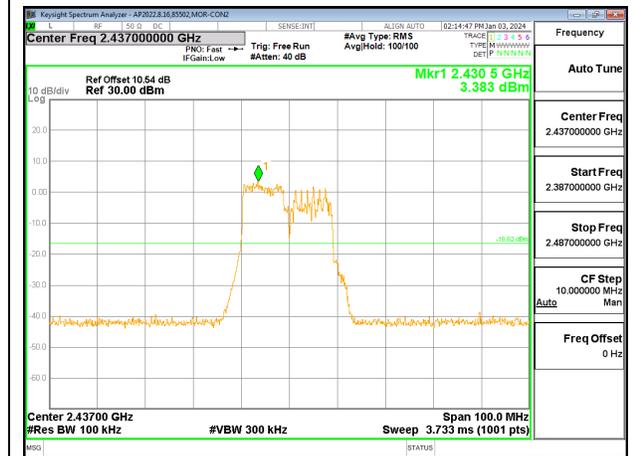




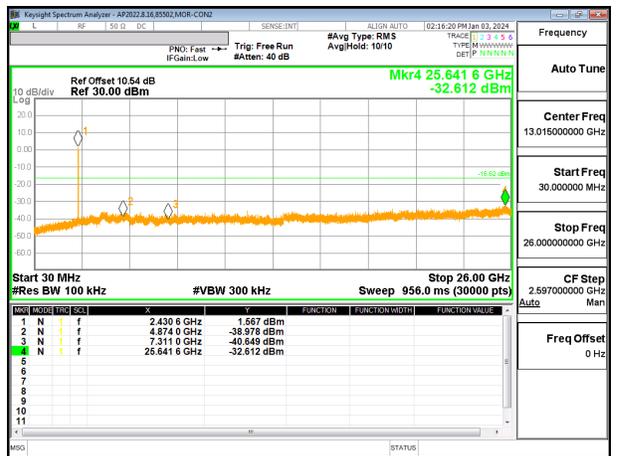
LOW CHANNEL 1 BANDEDGE CHAIN 1



OUT-OF-BAND LOW CHANNEL 1 CHAIN 1



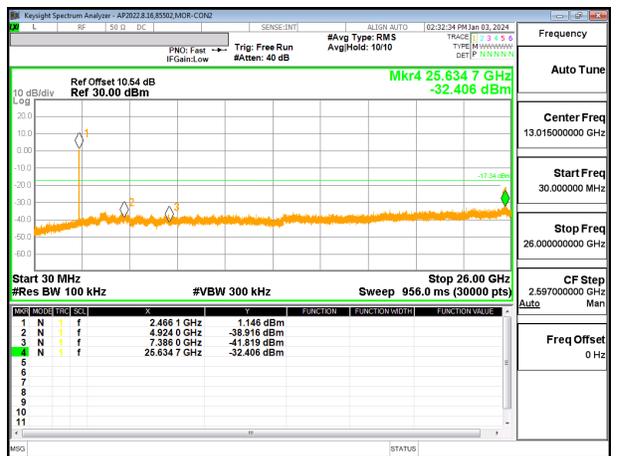
IN-BAND REFERENCE LEVEL CHAIN 1



OUT-OF-BAND MID CHANNEL 1 CHAIN 1



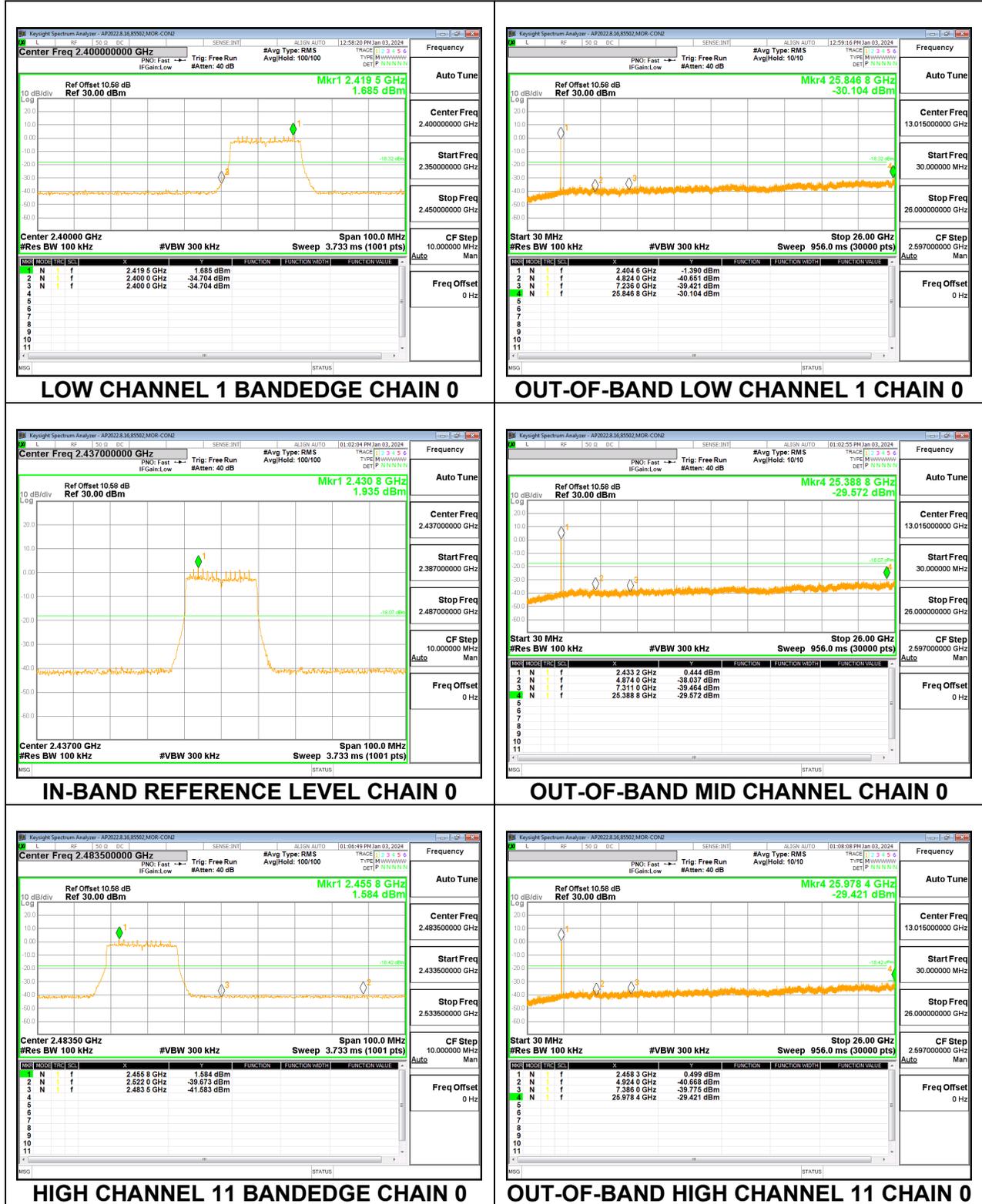
HIGH CHANNEL 11 BANDEDGE CHAIN 1

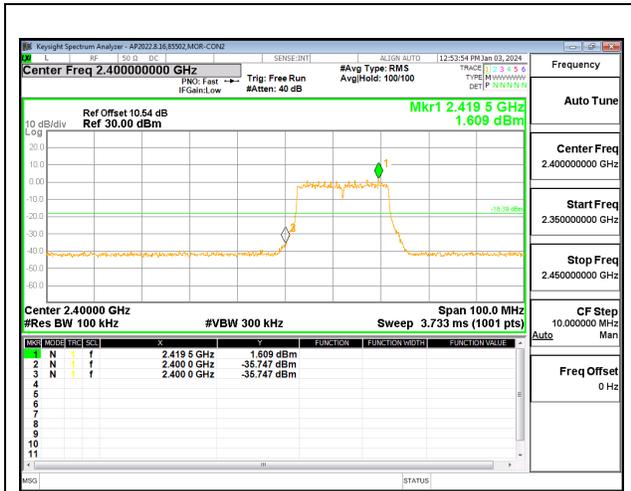


OUT-OF-BAND HIGH CHANNEL 11 CHAIN 1

9.6.7. 802.11ax HE20 242T MODE

2TX Chain 0 + Chain 1 MODE





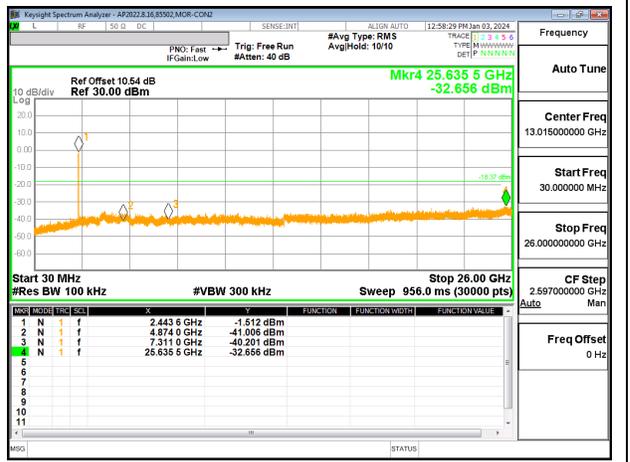
LOW CHANNEL 1 BANDEDGE CHAIN 1



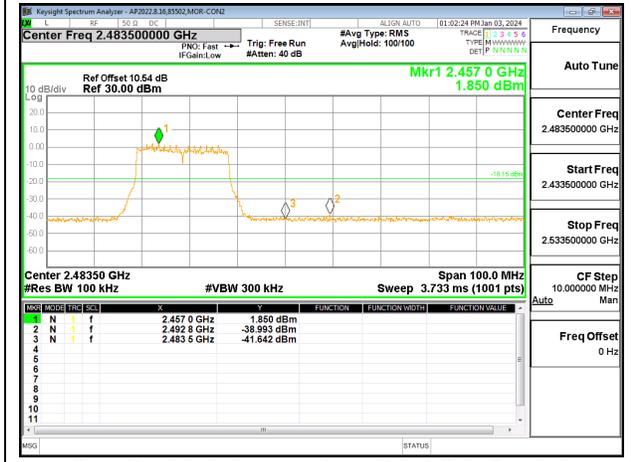
OUT-OF-BAND LOW CHANNEL 1 CHAIN 1



IN-BAND REFERENCE LEVEL CHAIN 1



OUT-OF-BAND MID CHANNEL 1 CHAIN 1



HIGH CHANNEL 11 BANDEDGE CHAIN 1



OUT-OF-BAND HIGH CHANNEL 11 CHAIN 1

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

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 3 MHz 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.

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 power spectral density 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).

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

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

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

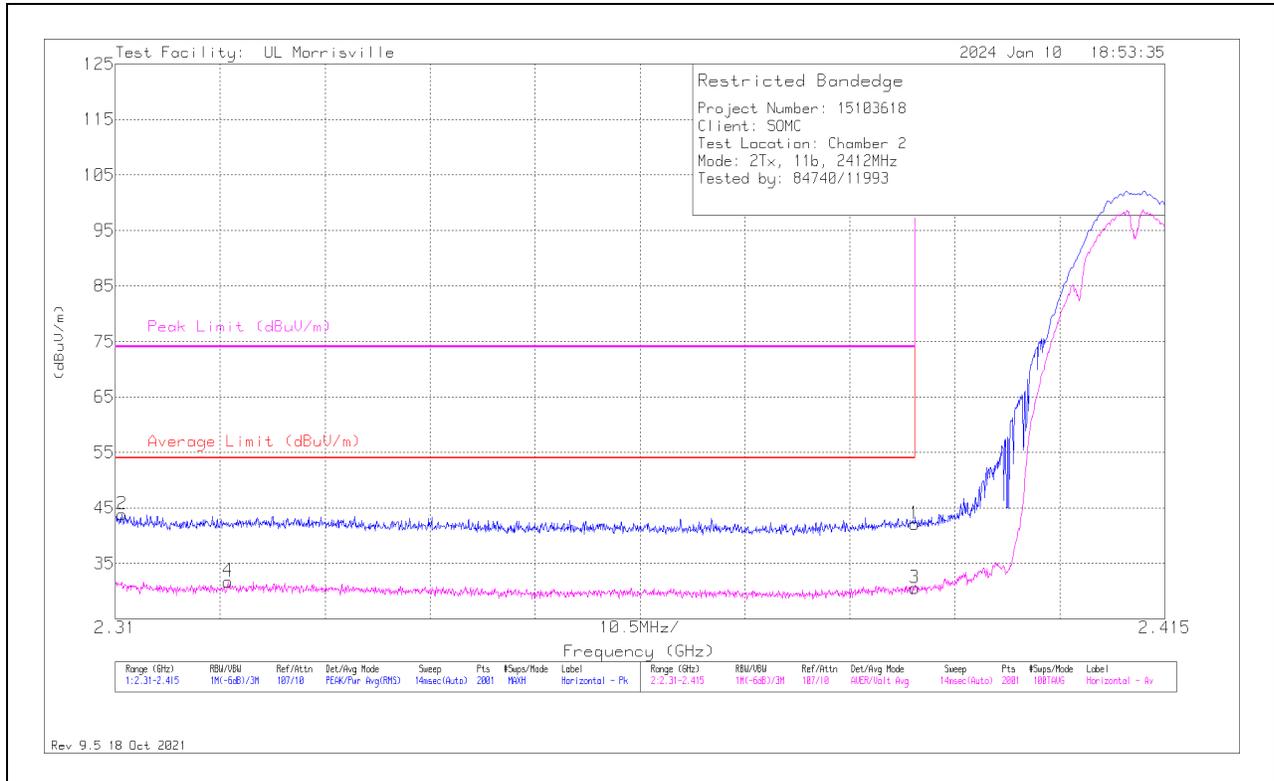
10.1. TRANSMITTER ABOVE 1 GHz

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

2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	33.95	Pk	32.3	-24.2	42.05	-	-	74	-31.95	164	258	H
2	*** 2.31068	35.58	Pk	32.1	-23.9	43.78	-	-	74	-30.22	164	258	H
3	*** 2.38996	22.46	ADV	32.3	-24.2	30.56	54	-23.44	-	-	164	258	H
4	*** 2.32129	23.43	ADV	32.1	-23.8	31.73	54	-22.27	-	-	164	258	H

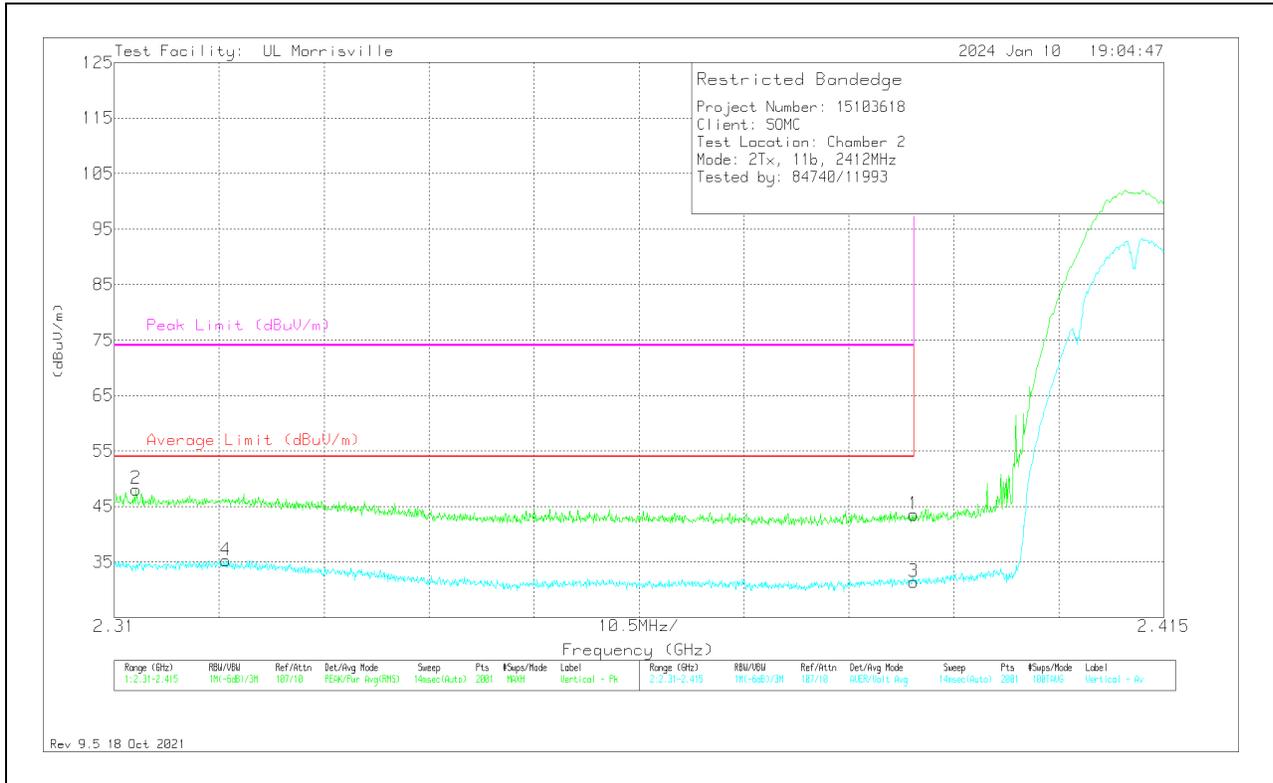
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

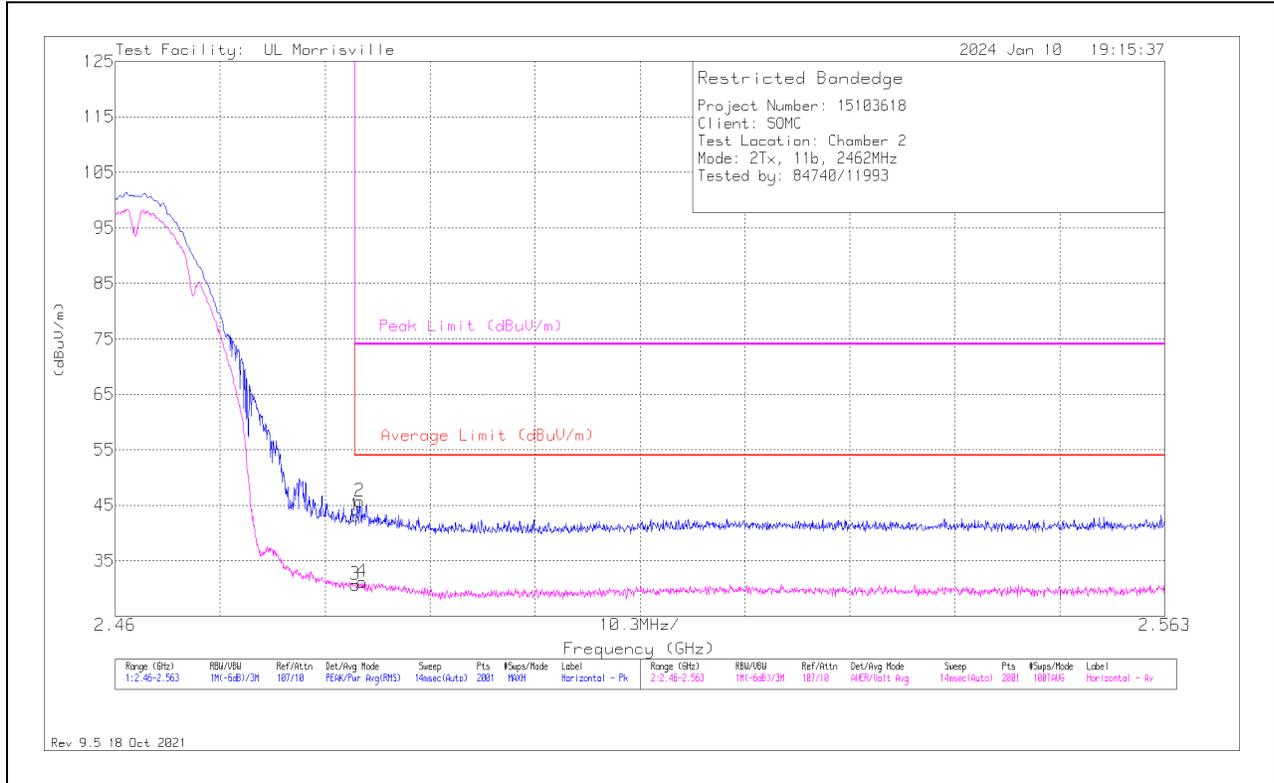


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	35.43	Pk	32.3	-24.2	43.53	-	-	74	-30.47	185	247	V
2	*** 2.31221	40.02	Pk	32.1	-24	48.12	-	-	74	-25.88	185	247	V
3	*** 2.38996	23.28	ADV	32.3	-24.2	31.38	54	-22.62	-	-	185	246	V
4	*** 2.32118	27	ADV	32.1	-23.8	35.3	54	-18.7	-	-	185	246	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

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	* ** 2.48354	35.06	Pk	32.5	-24.5	43.06	-	-	74	-30.94	191	247	H
2	* ** 2.484	37.73	Pk	32.5	-24.5	45.73	-	-	74	-28.27	191	247	H
3	* ** 2.48354	22.62	ADV	32.5	-24.5	30.62	54	-23.38	-	-	191	247	H
4	* ** 2.48426	23.14	ADV	32.5	-24.5	31.14	54	-22.86	-	-	191	247	H

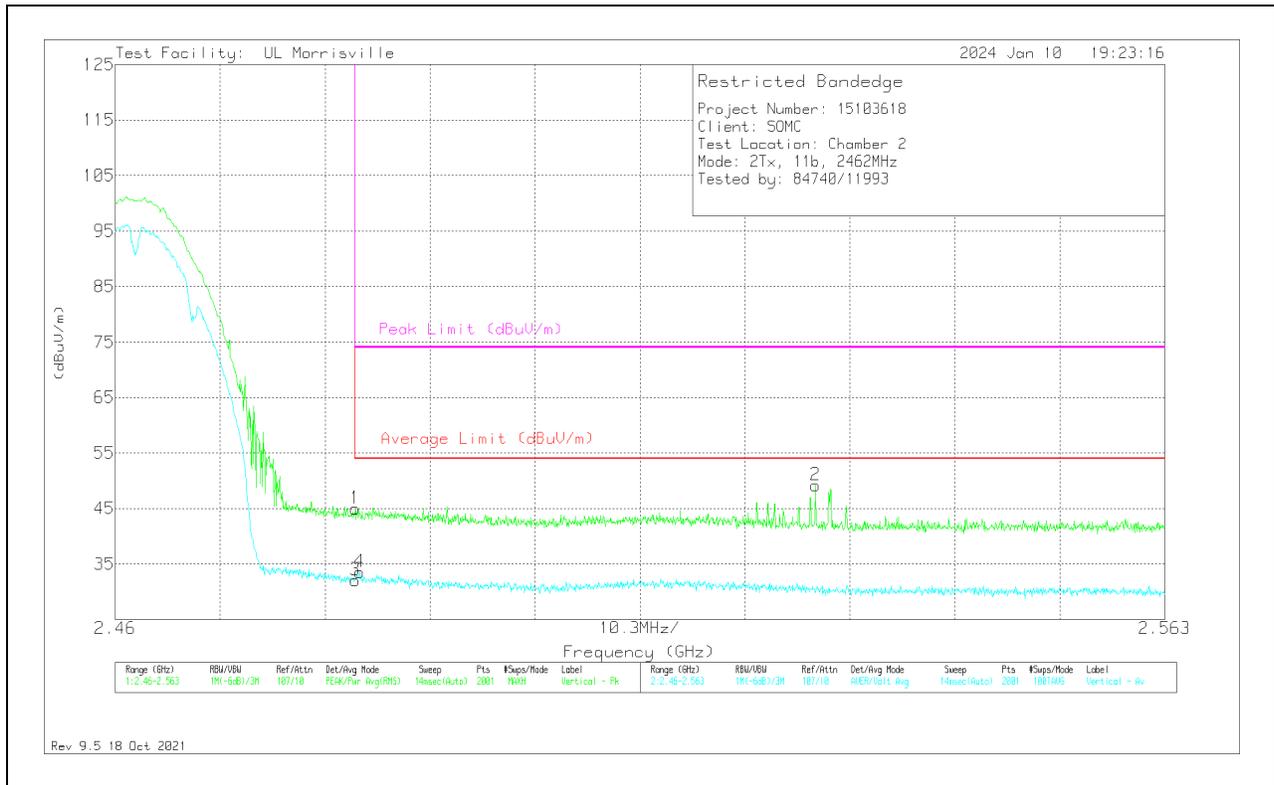
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

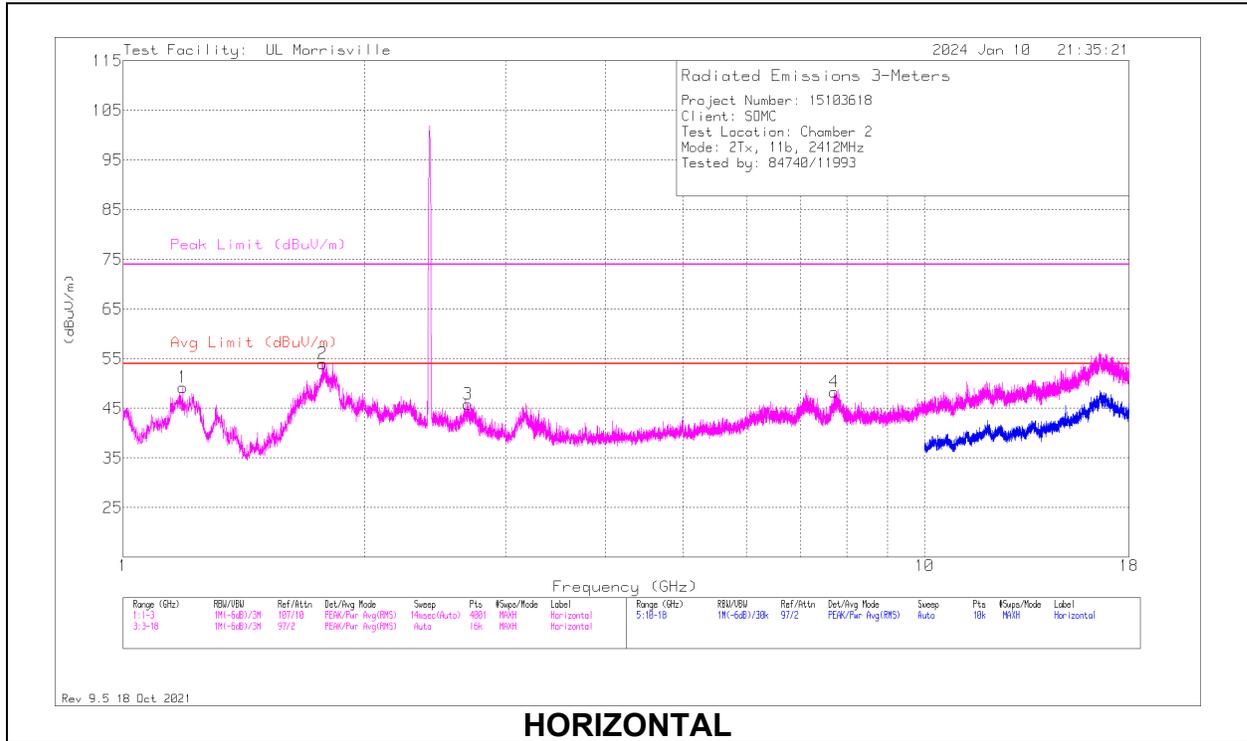


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	36.96	Pk	32.5	-24.5	44.96	-	-	74	-29.04	188	248	V
2	** 2.5287	41.51	Pk	32.5	-24.8	49.21	-	-	74	-24.79	188	248	V
3	* ** 2.48354	24.03	ADV	32.5	-24.5	32.03	54	-21.97	-	-	188	248	V
4	*** 2.484	25.53	ADV	32.5	-24.5	33.53	54	-20.47	-	-	188	248	V

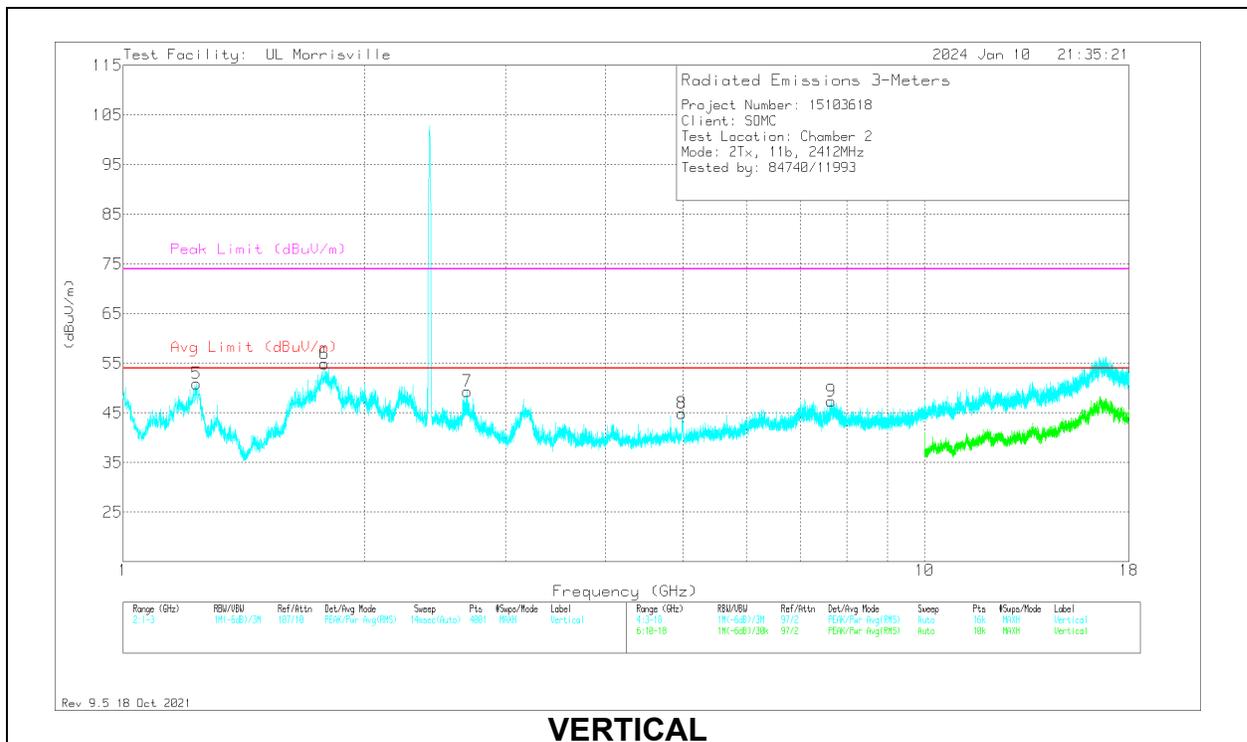
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.18657	46.46	PK2	28.5	-24.2	50.76	-	-	74	-23.24	220	120	H
	*** 1.18527	34.57	ADV	28.5	-24.2	38.87	54	-15.13	-	-	220	120	H
2	** 1.77472	52.34	PK2	30.3	-22.7	59.94	-	-	74	-14.06	168	112	H
	** 1.77366	38.4	ADV	30.3	-22.7	46	54	-8	-	-	168	112	H
3	*** 2.6925	39.26	PK	32.2	-25.6	45.86	54	-8.14	74	-28.14	0-360	100	H
5	*** 1.2337	45.25	PK2	29.1	-24	50.35	-	-	74	-23.65	191	143	V
	*** 1.23252	33.65	ADV	29.1	-24	38.75	54	-15.25	-	-	191	143	V
6	** 1.78374	50.94	PK2	30.4	-22.7	58.64	-	-	74	-15.36	48	208	V
	** 1.7833	38.25	ADV	30.4	-22.7	45.95	54	-8.05	-	-	48	208	V
7	*** 2.68582	45.41	PK2	32.2	-25.7	51.91	-	-	74	-22.09	64	198	V
	*** 2.6869	33.12	ADV	32.2	-25.7	39.62	54	-14.38	-	-	64	198	V
4	*** 7.7244	41.31	PK2	35.7	-26.3	50.71	-	-	74	-23.29	194	113	H
	*** 7.72338	28.48	ADV	35.7	-26.3	37.88	54	-16.12	-	-	194	113	H
8	*** 4.98469	41.65	PK	34	-30.7	44.95	54	-9.05	74	-29.05	0-360	101	V
9	*** 7.6575	38.14	PK	35.7	-26.5	47.34	54	-6.66	74	-26.66	0-360	101	V

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

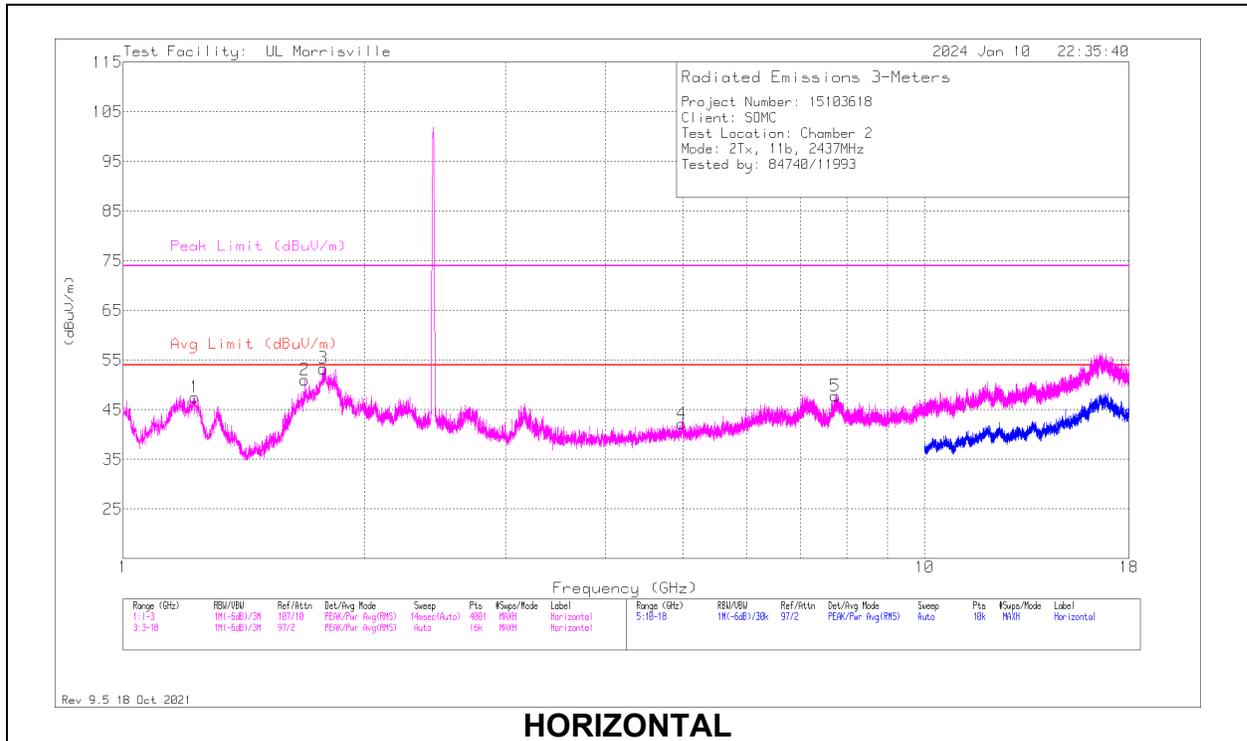
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK - Peak detector

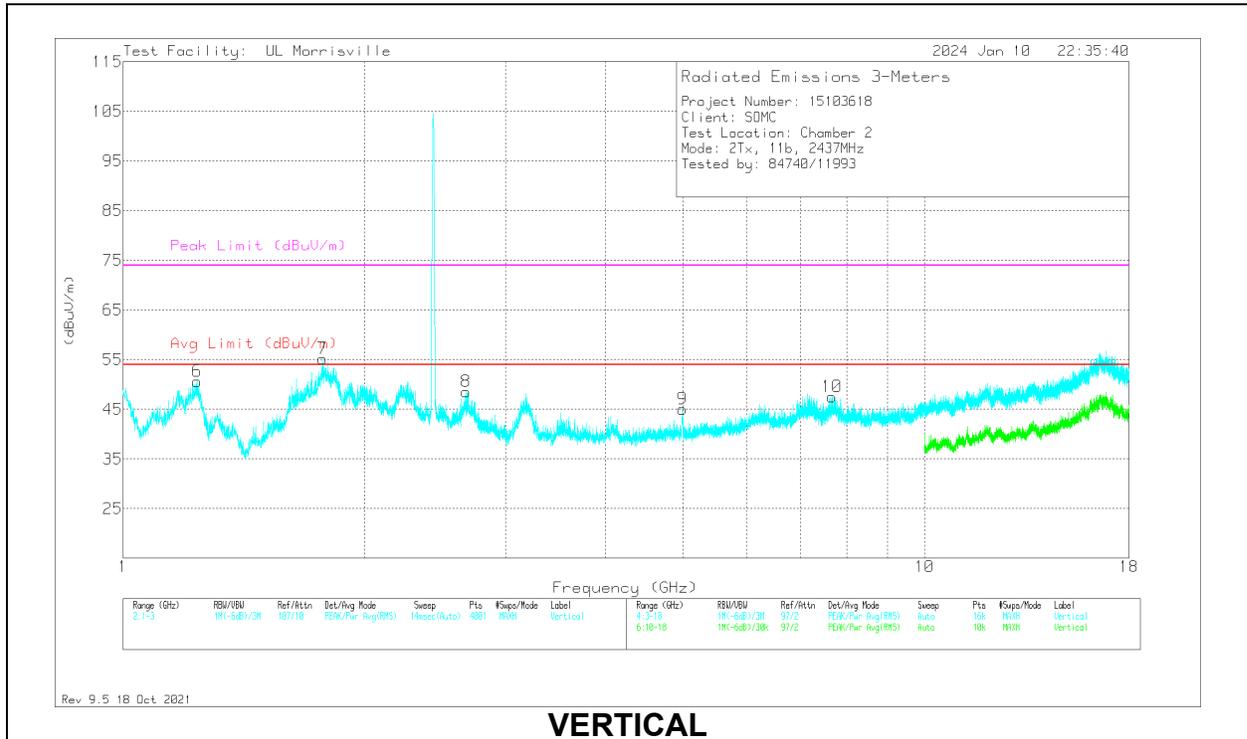
PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.229	42.46	Pk	29	-24	47.46	54	-6.54	74	-26.54	0-360	101	H
2	*** 1.68644	46.57	PK2	29.4	-22.4	53.57	-	-	74	-20.43	270	115	H
	*** 1.68515	34.29	ADV	29.4	-22.4	41.29	54	-12.71	-	-	270	115	H
3	** 1.77826	51.9	PK2	30.3	-22.8	59.4	-	-	74	-14.6	168	110	H
	** 1.77617	38.26	ADV	30.3	-22.8	45.76	54	-8.24	-	-	168	110	H
6	*** 1.23786	48.35	PK2	29.2	-24.1	53.45	-	-	74	-20.55	34	102	V
	*** 1.23619	37.12	ADV	29.1	-24.1	42.12	54	-11.88	-	-	34	102	V
7	** 1.77435	54.51	PK2	30.3	-22.7	62.11	-	-	74	-11.89	49	209	V
	** 1.77321	38.22	ADV	30.3	-22.7	45.82	54	-8.18	-	-	49	209	V
8	*** 2.68295	45.23	PK2	32.2	-25.7	51.73	-	-	74	-22.27	60	193	V
	*** 2.68072	31.83	ADV	32.2	-25.7	38.33	54	-15.67	-	-	60	193	V
4	*** 4.98375	38.77	Pk	34	-30.6	42.17	54	-11.83	74	-31.83	0-360	200	H
5	*** 7.73813	38.48	Pk	35.8	-26.5	47.78	54	-6.22	74	-26.22	0-360	200	H
9	*** 4.98563	41.74	Pk	34	-30.7	45.04	54	-8.96	74	-28.96	0-360	101	V
10	*** 7.65938	38.32	Pk	35.7	-26.5	47.52	54	-6.48	74	-26.48	0-360	101	V

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

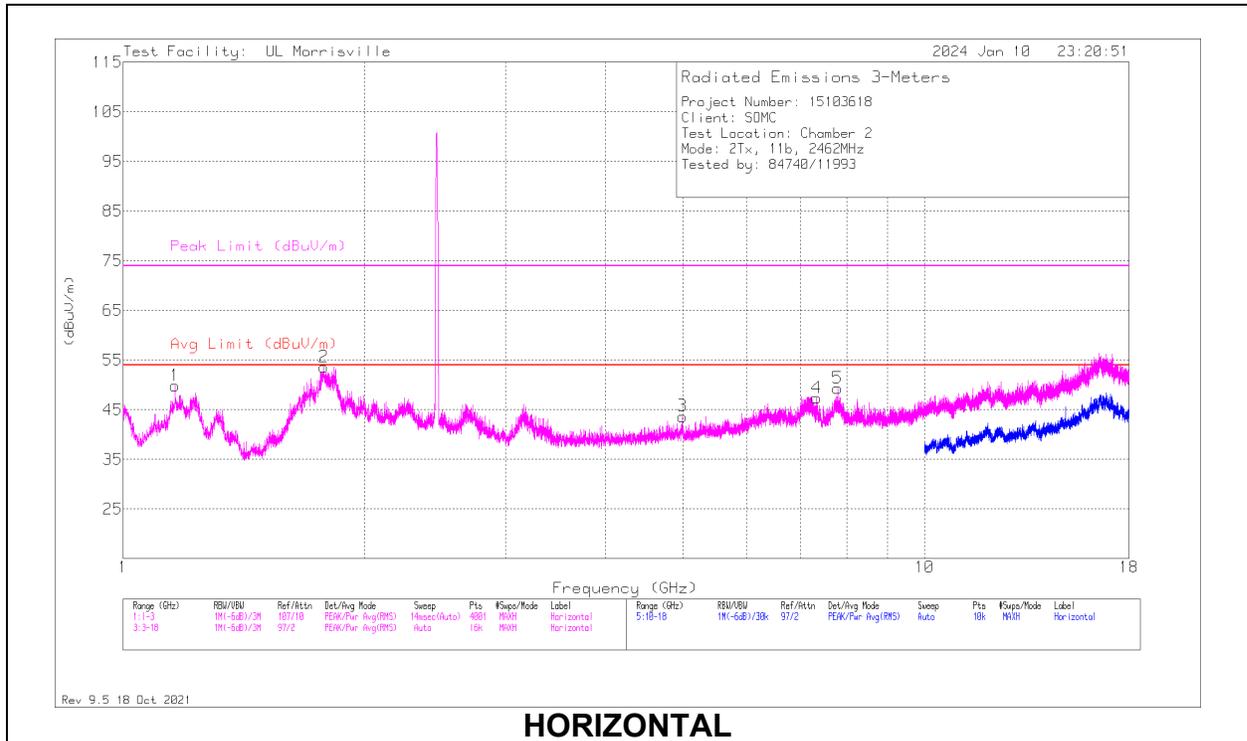
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

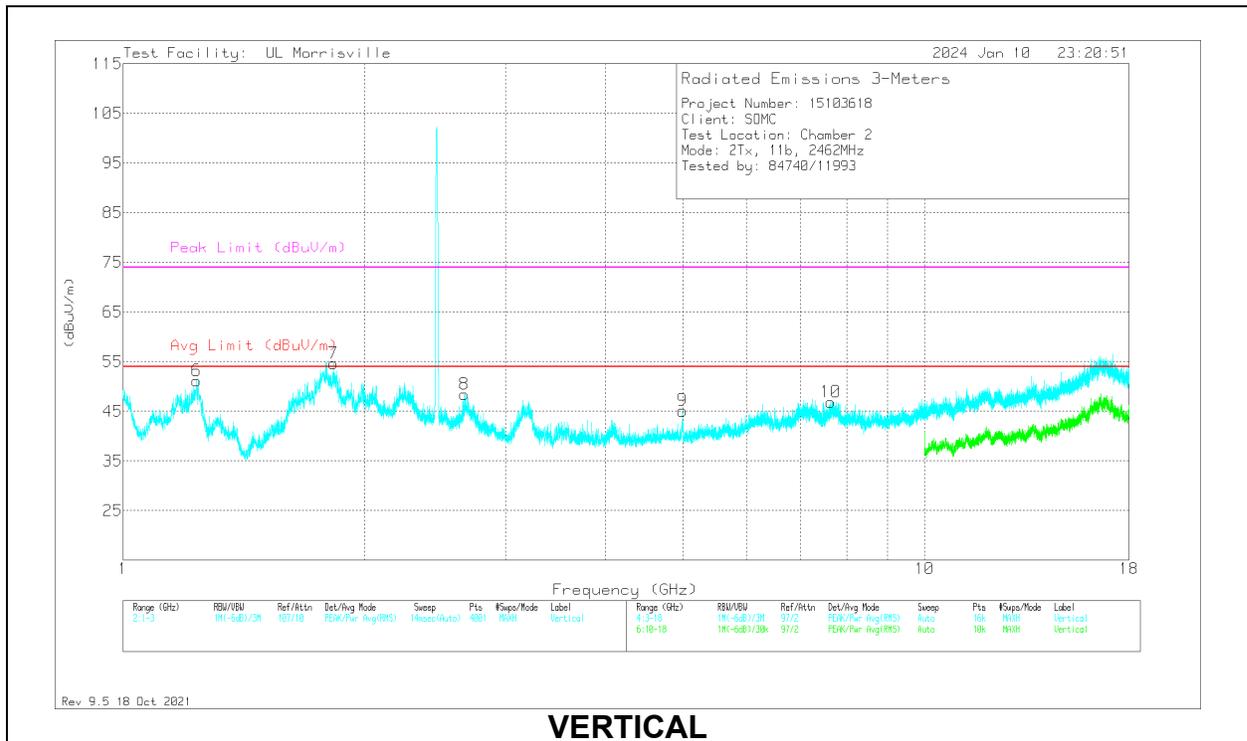
PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.16273	41.29	PK2	28.3	-24.6	44.99	-	-	74	-29.01	8	184	H
	*** 1.16263	29.34	ADV	28.3	-24.6	33.04	54	-20.96	-	-	8	184	H
2	** 1.77816	52.11	PK2	30.3	-22.8	59.61	-	-	74	-14.39	166	105	H
	** 1.78046	37.73	ADV	30.3	-22.8	45.23	54	-8.77	-	-	166	105	H
6	*** 1.23389	48.43	PK2	29.1	-24	53.53	-	-	74	-20.47	34	102	V
	*** 1.23509	37.12	ADV	29.1	-24.1	42.12	54	-11.88	-	-	34	102	V
7	** 1.82872	49.1	PK2	30.6	-22.8	56.9	-	-	74	-17.1	54	211	V
	** 1.82892	36.86	ADV	30.6	-22.8	44.66	54	-9.34	-	-	54	211	V
8	*** 2.6675	45.15	PK2	32.3	-25.6	51.85	-	-	74	-22.15	65	199	V
	*** 2.66804	32.88	ADV	32.3	-25.6	39.58	54	-14.42	-	-	65	199	V
3	*** 4.99219	40.49	Pk	34	-30.8	43.69	54	-10.31	74	-30.31	0-360	101	H
4	*** 7.33688	38.16	Pk	35.6	-26.4	47.36	54	-6.64	74	-26.64	0-360	101	H
9	*** 4.98844	41.82	Pk	34	-30.7	45.12	54	-8.88	74	-28.88	0-360	101	V
10	*** 7.63594	37.71	Pk	35.7	-26.6	46.81	54	-7.19	74	-27.19	0-360	101	V
5	7.79156	39.72	Pk	35.8	-26.2	49.32	-	-	-	-	0-360	101	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

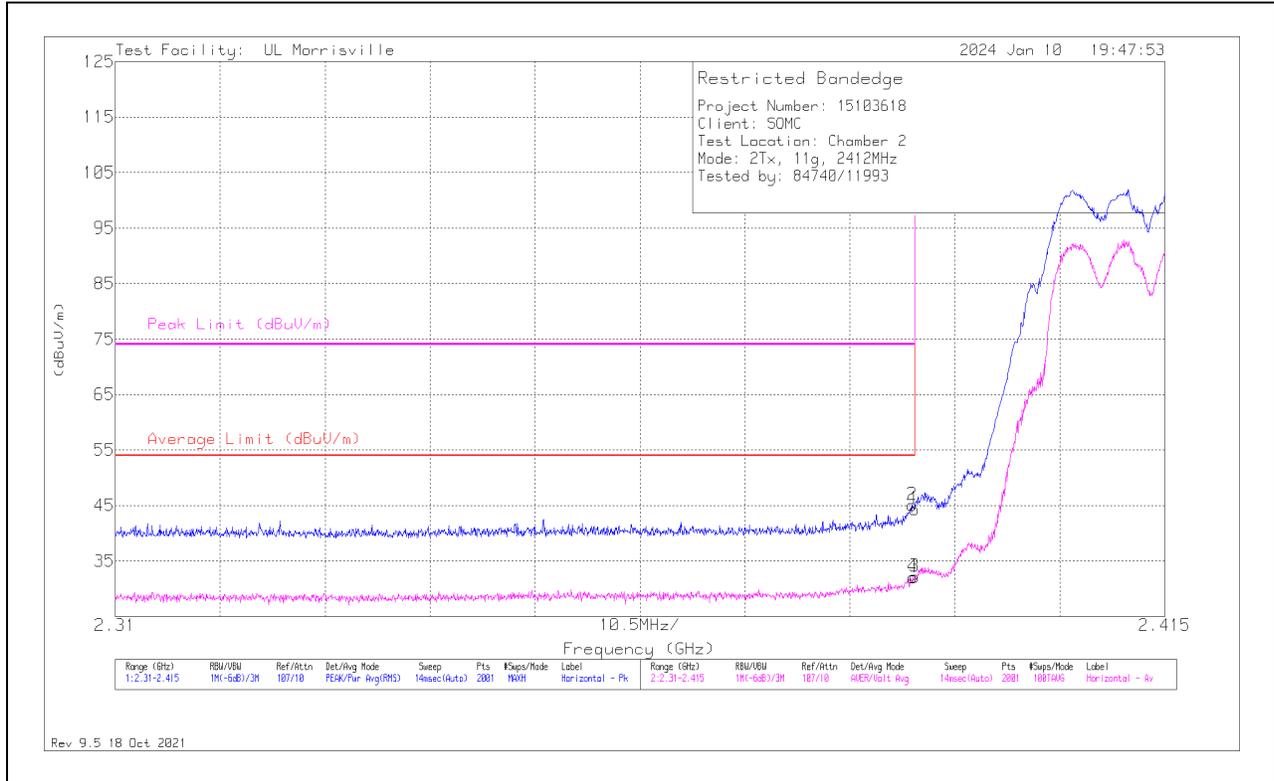
ADV - Linear Voltage Average

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

2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	36.25	Pk	32.3	-24.2	44.35	-	-	74	-29.65	166	151	H
2	*** 2.38975	36.99	Pk	32.3	-24.2	45.09	-	-	74	-28.91	166	151	H
3	*** 2.38996	24.02	ADV	32.3	-24.2	32.12	54	-21.88	-	-	166	151	H
4	*** 2.3898	23.91	ADV	32.3	-24.2	32.01	54	-21.99	-	-	166	151	H

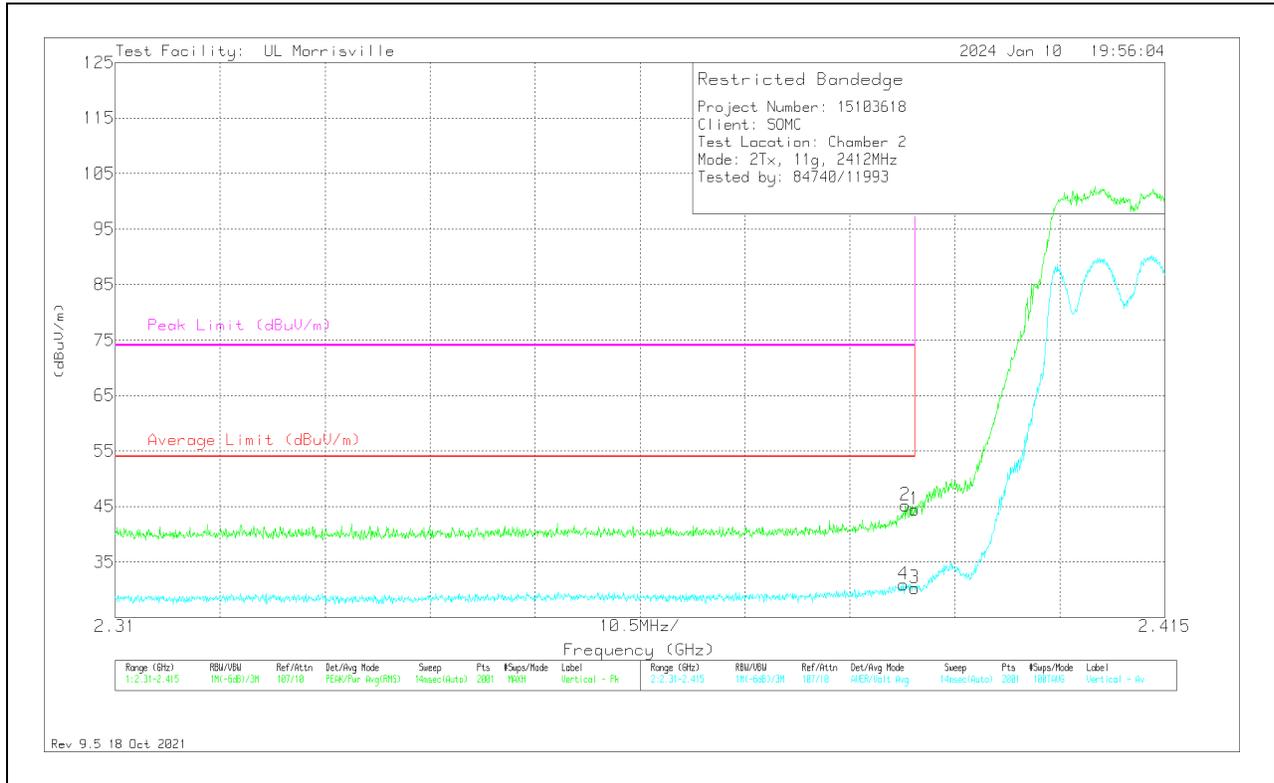
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	36.35	Pk	32.3	-24.2	44.45	-	-	74	-29.55	174	133	V
2	*** 2.38907	37.15	Pk	32.3	-24.2	45.25	-	-	74	-28.75	174	133	V
3	*** 2.38996	22.2	ADV	32.3	-24.2	30.3	54	-23.7	-	-	174	133	V
4	*** 2.38886	22.86	ADV	32.3	-24.2	30.96	54	-23.04	-	-	174	133	V

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

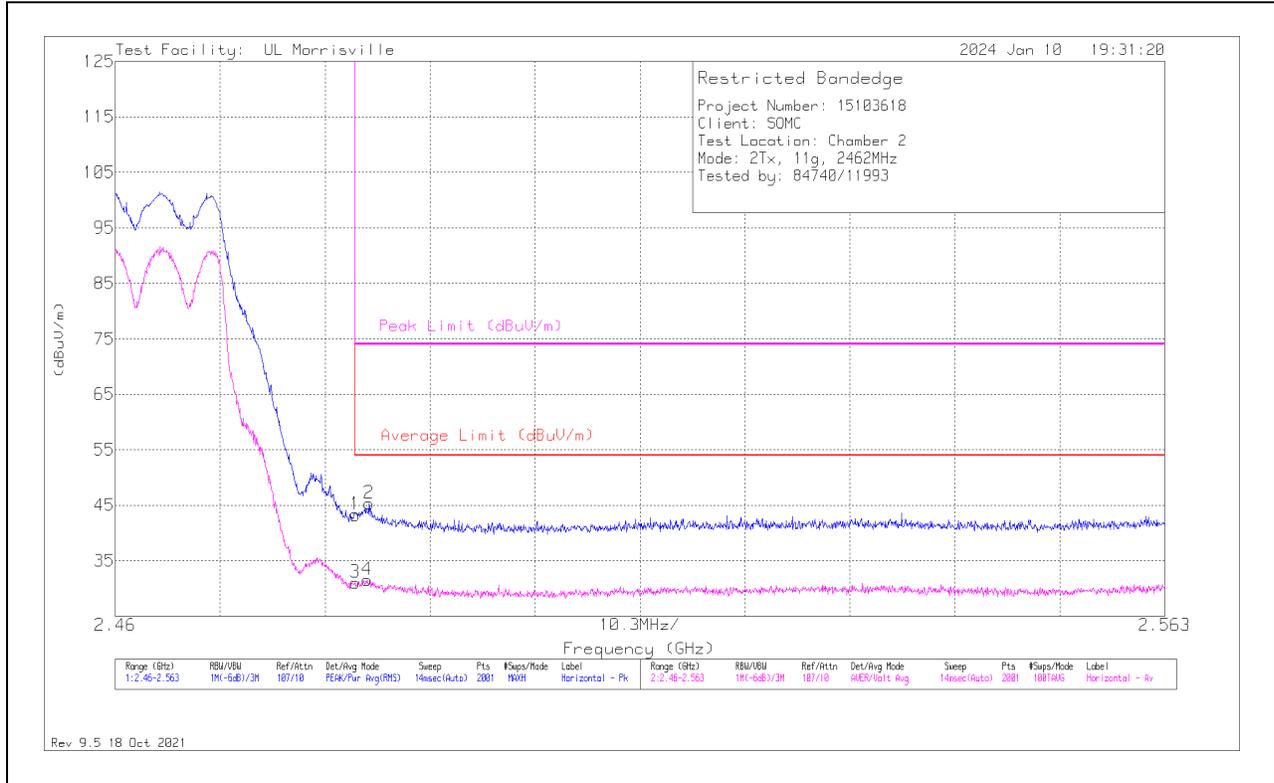
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	* ** 2.48354	35.28	Pk	32.5	-24.5	43.28	-	-	74	-30.72	328	250	H
2	* ** 2.48487	37.35	Pk	32.5	-24.5	45.35	-	-	74	-28.65	328	250	H
3	* ** 2.48354	23.04	ADV	32.5	-24.5	31.04	54	-22.96	-	-	328	249	H
4	* ** 2.48472	23.52	ADV	32.5	-24.5	31.52	54	-22.48	-	-	328	249	H

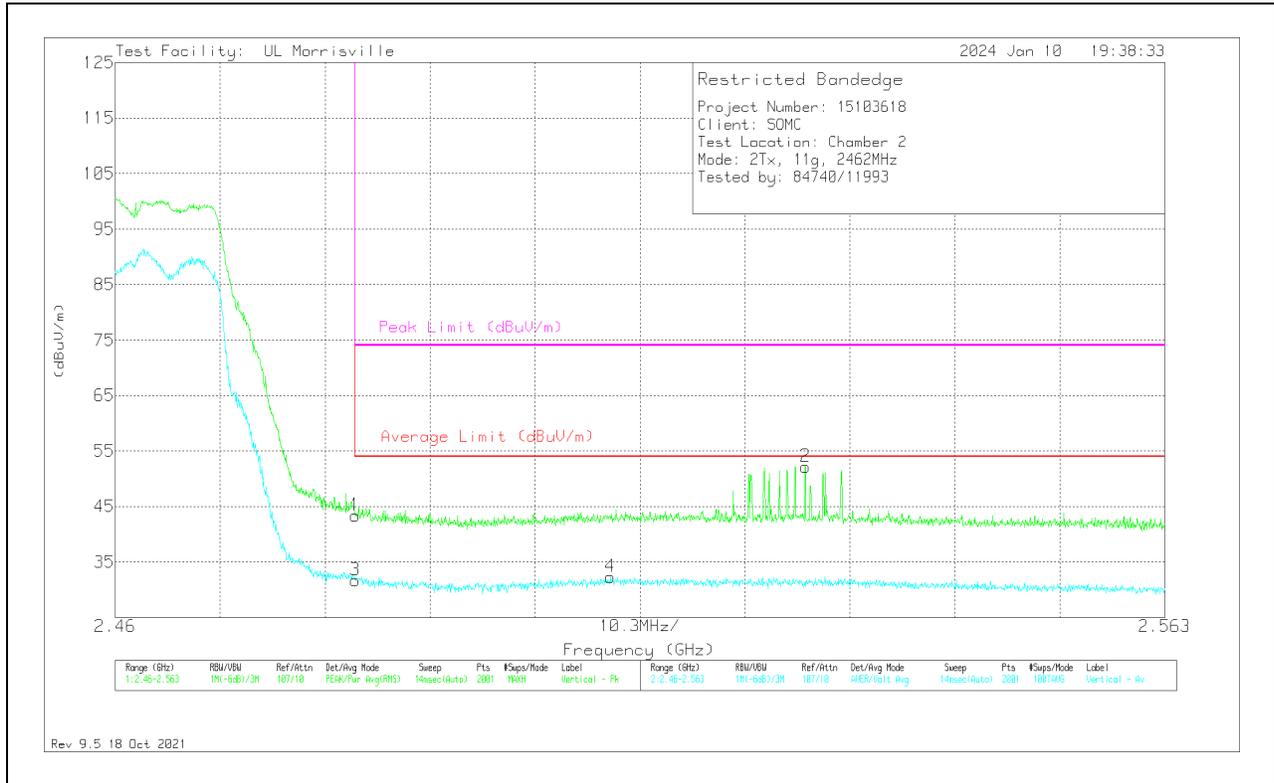
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	*** 2.48354	35.31	Pk	32.5	-24.5	43.31	-	-	74	-30.69	352	224	V
2	** 2.52772	44.46	Pk	32.5	-24.8	52.16	-	-	74	-21.84	352	224	V
3	*** 2.48354	23.64	ADV	32.5	-24.5	31.64	54	-22.36	-	-	352	224	V
4	** 2.50862	24.53	ADV	32.5	-24.7	32.33	54	-21.67	-	-	352	224	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

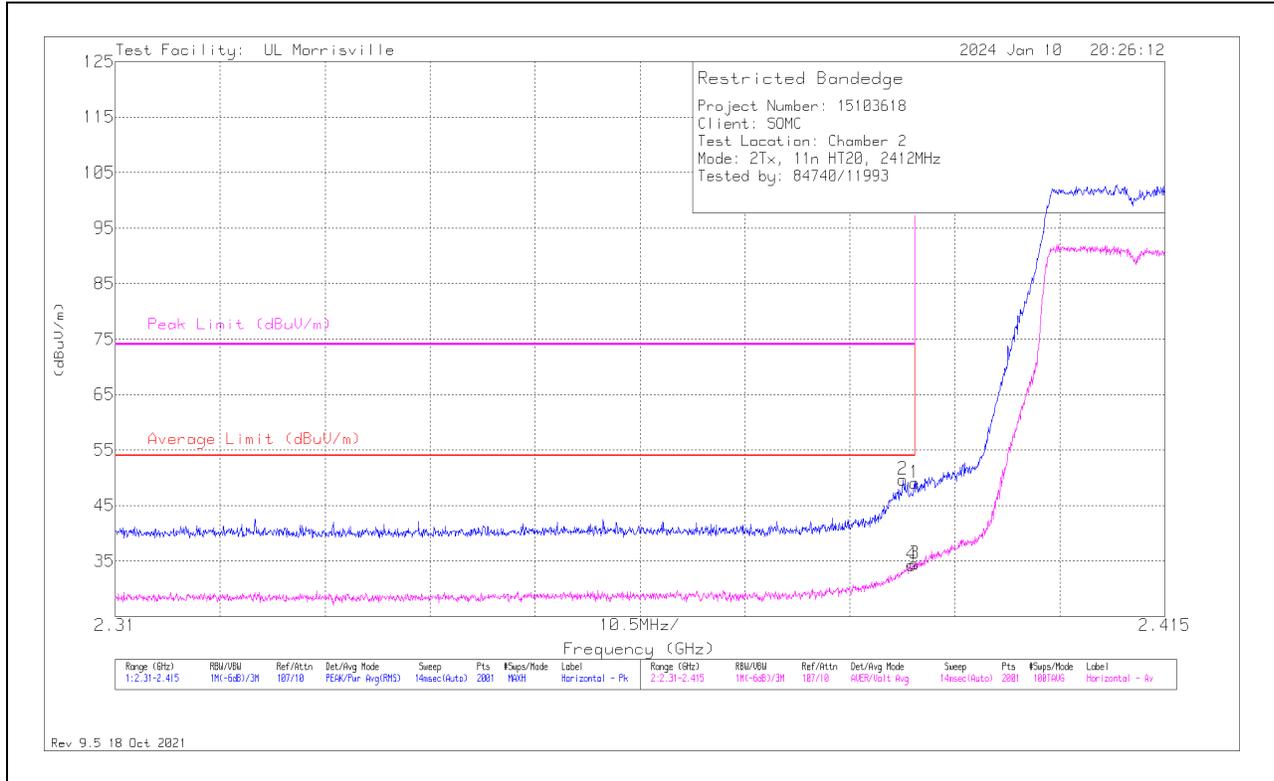
ADV - Linear Voltage Average

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

2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	40.95	Pk	32.3	-24.2	49.05	-	-	74	-24.95	260	114	H
2	* ** 2.3888	41.56	Pk	32.3	-24.2	49.66	-	-	74	-24.34	260	114	H
3	* ** 2.38996	26.39	ADV	32.3	-24.2	34.49	54	-19.51	-	-	260	114	H
4	* ** 2.3897	26.2	ADV	32.3	-24.2	34.3	54	-19.7	-	-	260	114	H

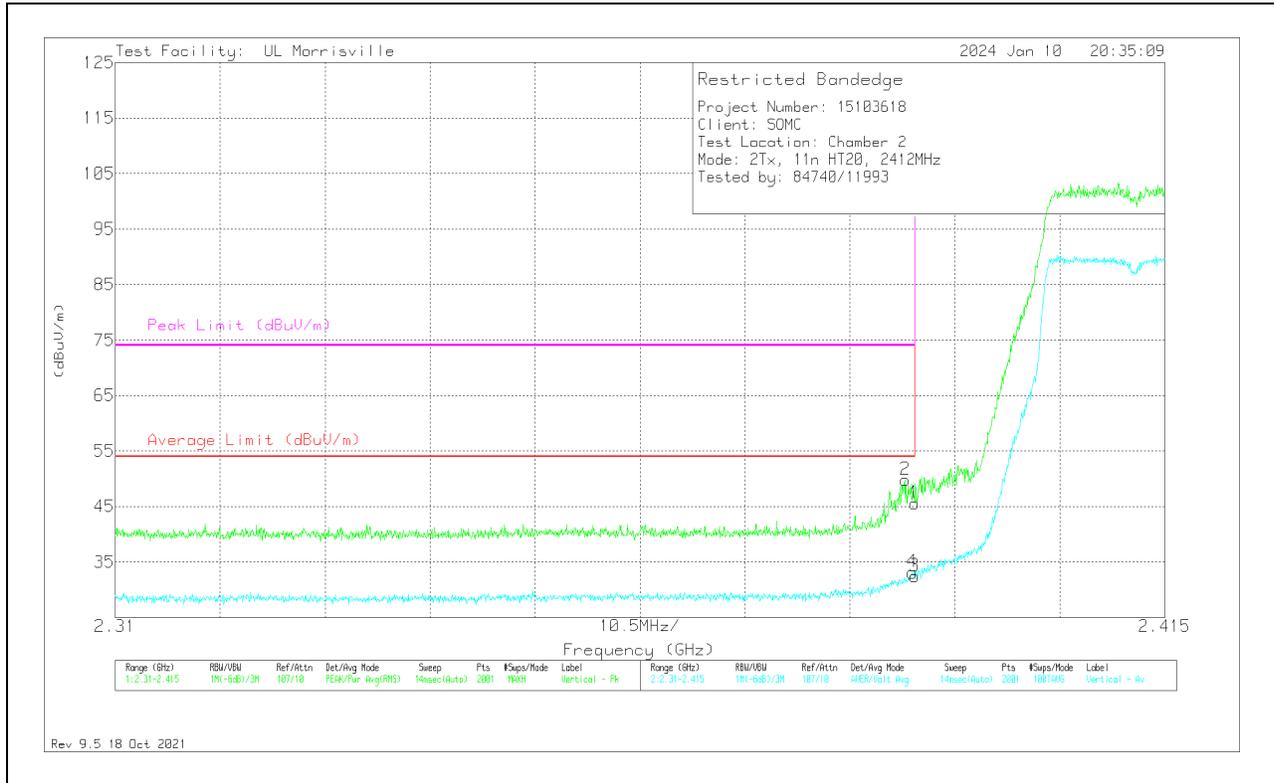
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	37.43	Pk	32.3	-24.2	45.53	-	-	74	-28.47	177	139	V
2	*** 2.38907	41.64	Pk	32.3	-24.2	49.74	-	-	74	-24.26	177	139	V
3	*** 2.38996	24.34	ADV	32.3	-24.2	32.44	54	-21.56	-	-	177	139	V
4	*** 2.38975	25	ADV	32.3	-24.2	33.1	54	-20.9	-	-	177	139	V

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

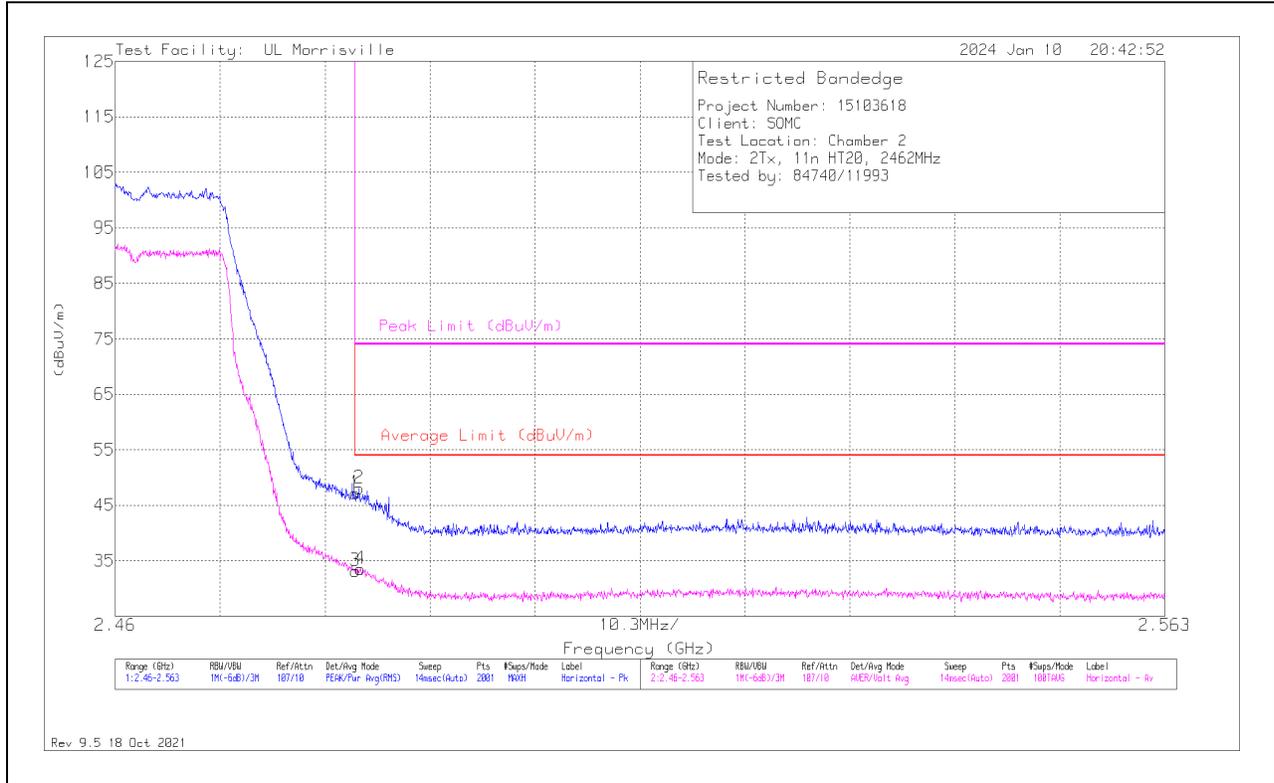
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

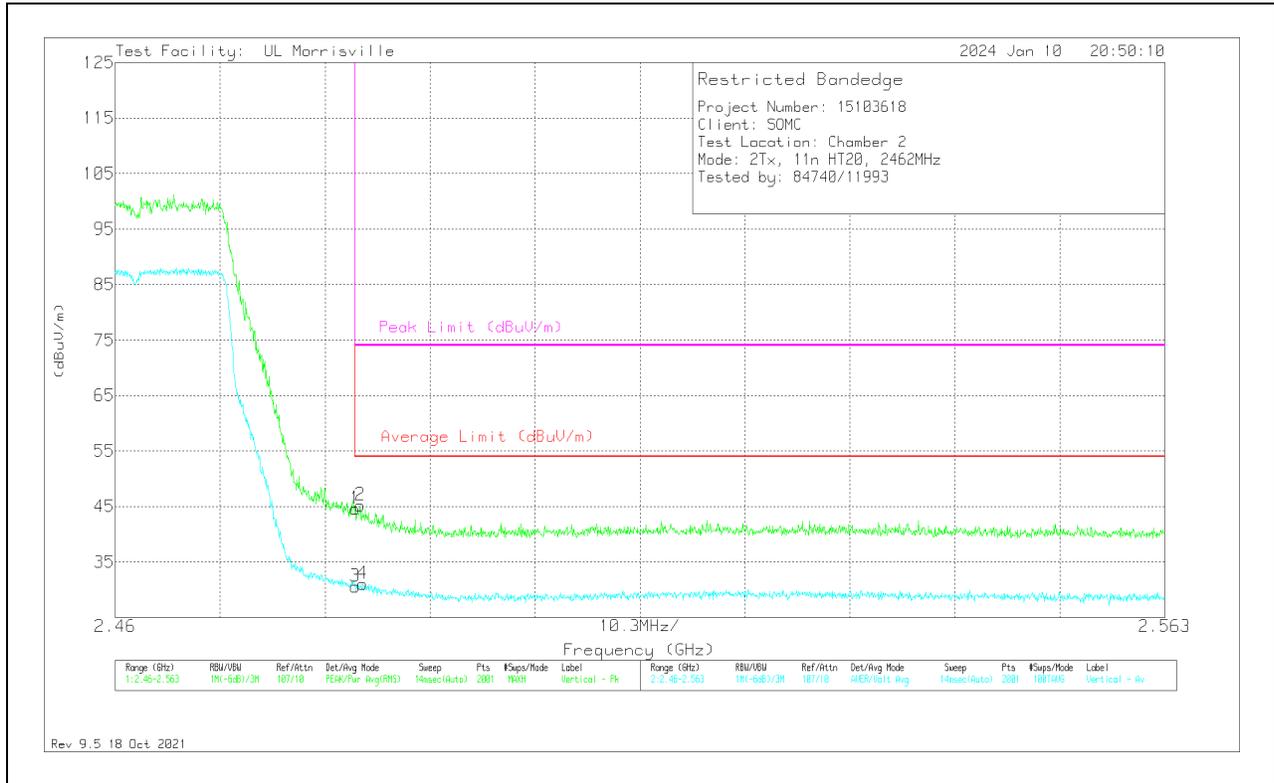
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	* ** 2.48354	39.14	Pk	32.5	-24.5	47.14	-	-	74	-26.86	158	130	H
2	* ** 2.4839	40.01	Pk	32.5	-24.5	48.01	-	-	74	-25.99	158	130	H
3	* ** 2.48354	25.12	ADV	32.5	-24.5	33.12	54	-20.88	-	-	158	130	H
4	* ** 2.48405	25.56	ADV	32.5	-24.5	33.56	54	-20.44	-	-	158	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (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	*** 2.48354	36.6	Pk	32.5	-24.5	44.6	-	-	74	-29.4	179	107	V
2	*** 2.48405	37.23	Pk	32.5	-24.5	45.23	-	-	74	-28.77	179	107	V
3	*** 2.48354	22.56	ADV	32.5	-24.5	30.56	54	-23.44	-	-	179	106	V
4	*** 2.48431	23	ADV	32.5	-24.5	31	54	-23	-	-	179	106	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

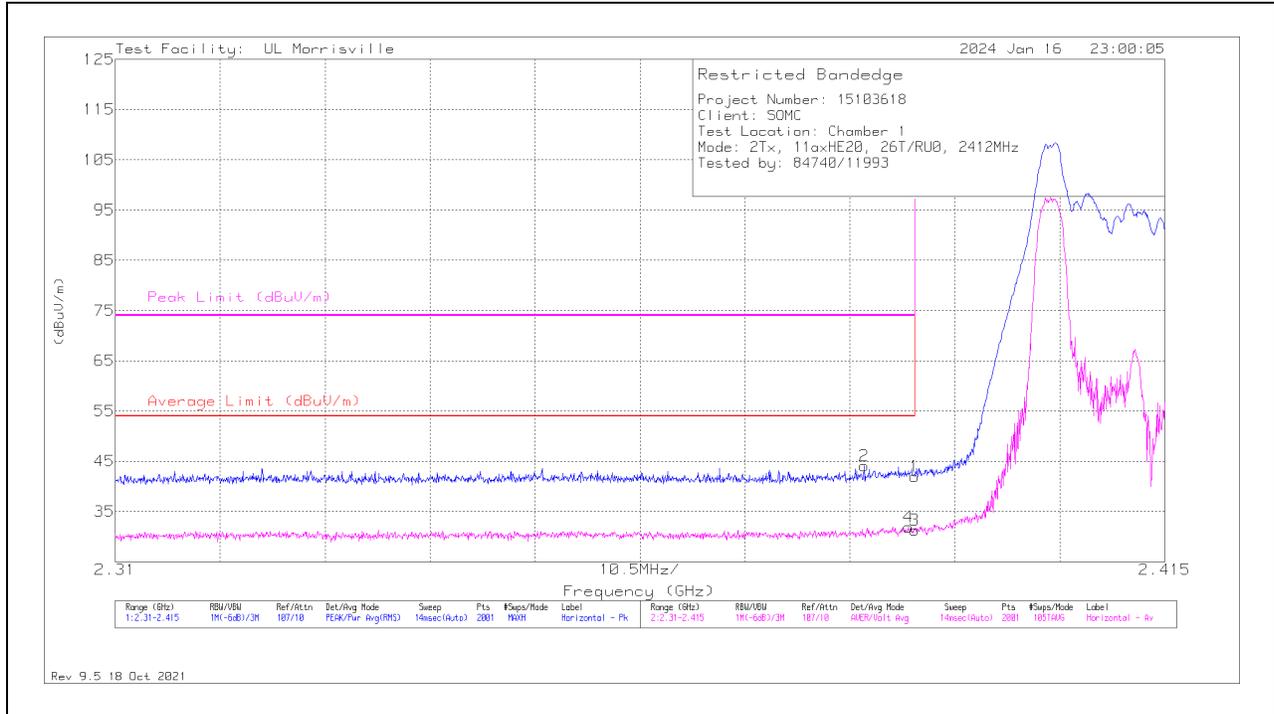
Pk - Peak detector

ADV - Linear Voltage Average

10.1.4. TX ABOVE 1 GHz 802.11ax HE20 26T MODE IN THE 2.4 GHz BAND
2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	34.08	Pk	32.1	-24.2	0	41.98	-	-	74	-32.02	163	211	H
2	* ** 2.38492	36.22	Pk	32.1	-24.2	0	44.12	-	-	74	-29.88	163	211	H
3	* ** 2.38996	22.91	ADV	32.1	-24.2	.49	31.3	54	-22.7	-	-	163	211	H
4	* ** 2.38933	23.56	ADV	32.1	-24.2	.49	31.95	54	-22.05	-	-	163	211	H

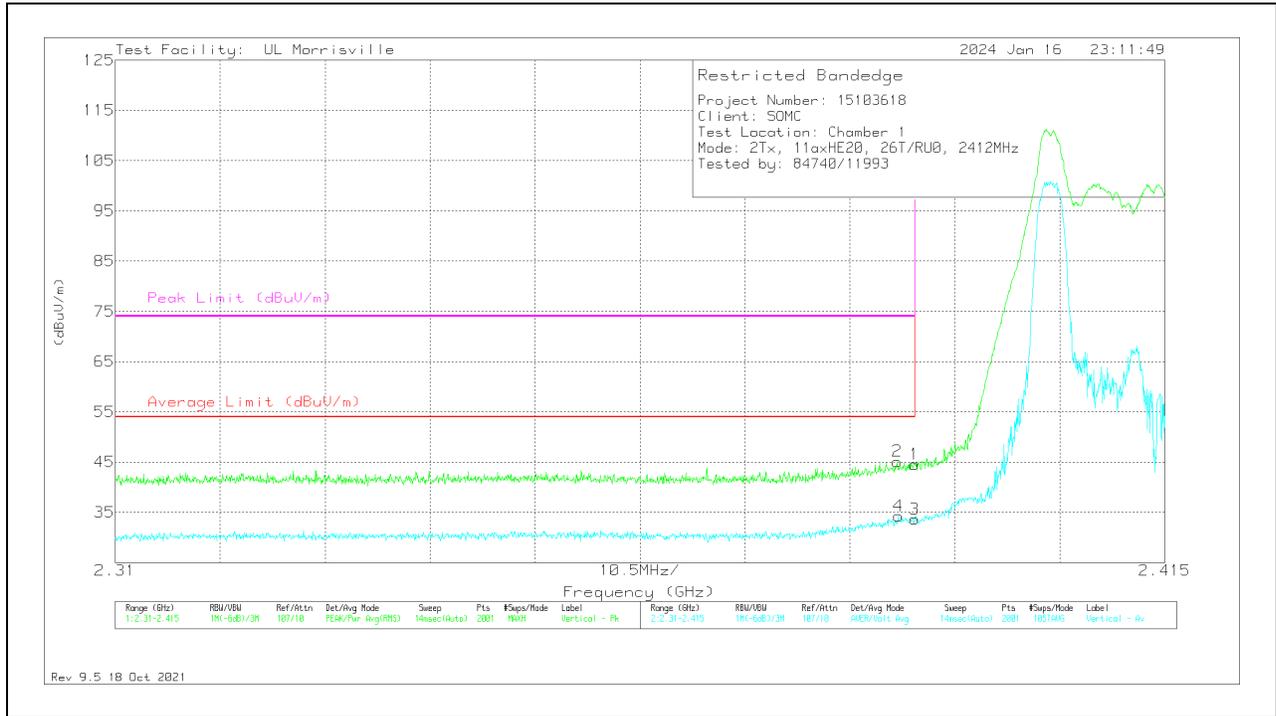
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	36.71	Pk	32.1	-24.2	0	44.61	-	-	74	-29.39	196	282	V
2	*** 2.38823	37.24	Pk	32.1	-24.2	0	45.14	-	-	74	-28.86	196	282	V
3	*** 2.38996	25.29	ADV	32.1	-24.2	.49	33.68	54	-20.32	-	-	196	282	V
4	*** 2.38838	25.84	ADV	32.1	-24.2	.49	34.23	54	-19.77	-	-	196	282	V

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

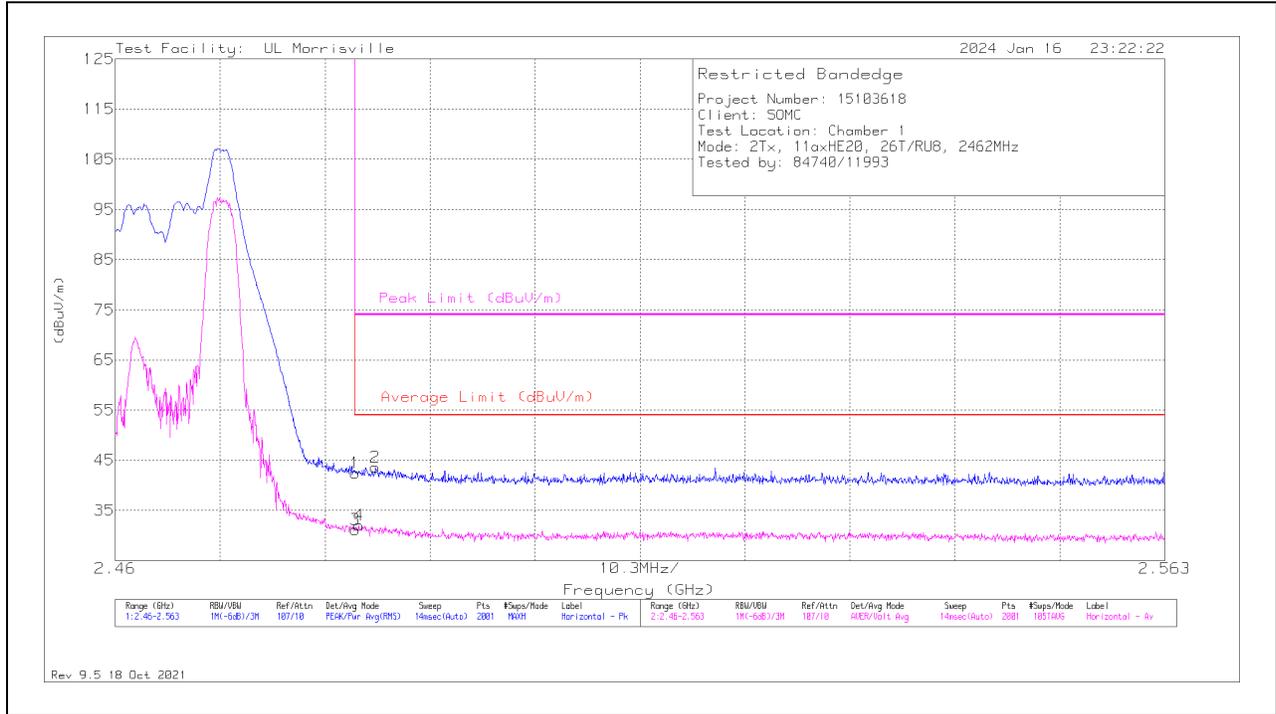
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

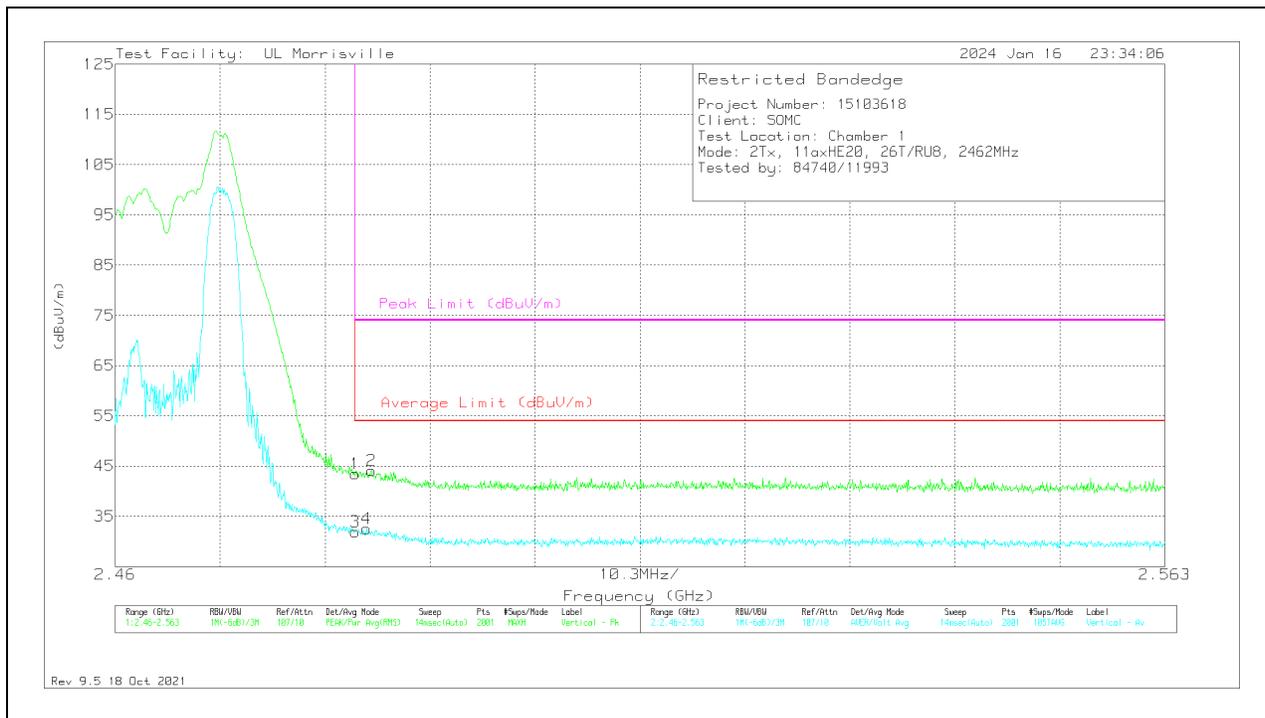
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	34.66	Pk	32.3	-24.5	0	42.46	-	-	74	-31.54	130	287	H
2	*** 2.48554	35.81	Pk	32.3	-24.5	0	43.61	-	-	74	-30.39	130	287	H
3	*** 2.48354	22.83	ADV	32.3	-24.5	.49	31.12	54	-22.88	-	-	130	287	H
4	*** 2.4839	23.72	ADV	32.3	-24.5	.49	32.01	54	-21.99	-	-	130	287	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	35.61	Pk	32.3	-24.5	0	43.41	-	-	74	-30.59	171	254	V
2	* ** 2.48513	36.29	Pk	32.3	-24.5	0	44.09	-	-	74	-29.91	171	254	V
3	* ** 2.48354	23.68	ADV	32.3	-24.5	.49	31.97	54	-22.03	-	-	171	254	V
4	* ** 2.48467	24.24	ADV	32.3	-24.5	.49	32.53	54	-21.47	-	-	171	254	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

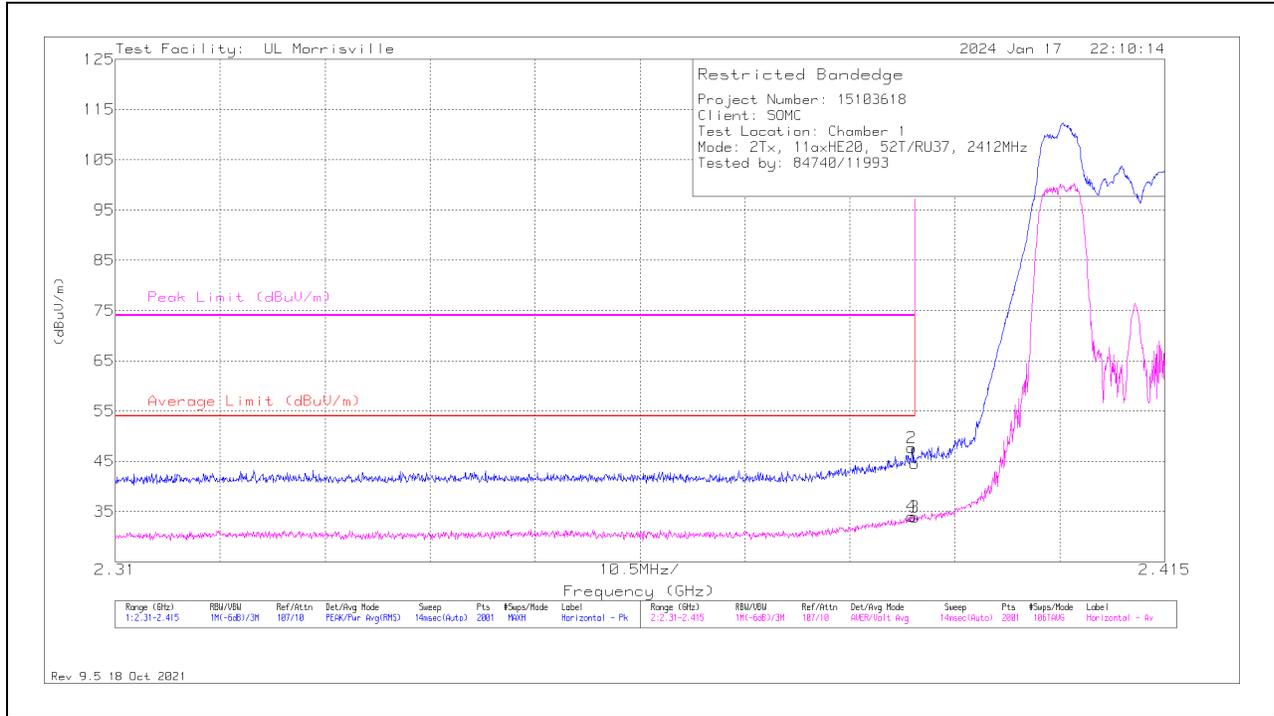
Pk - Peak detector

ADV - Linear Voltage Average

10.1.5. TX ABOVE 1 GHz 802.11ax HE20 52T MODE IN THE 2.4 GHz BAND
2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20G211 (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	36.71	Pk	32.1	-24.2	0	44.61	-	-	74	-29.39	140	101	H
2	* ** 2.3897	39.73	Pk	32.1	-24.2	0	47.63	-	-	74	-26.37	140	101	H
3	* ** 2.38996	25.44	ADV	32.1	-24.2	.53	33.87	54	-20.13	-	-	140	101	H
4	* ** 2.38964	25.56	ADV	32.1	-24.2	.53	33.99	54	-20.01	-	-	140	101	H

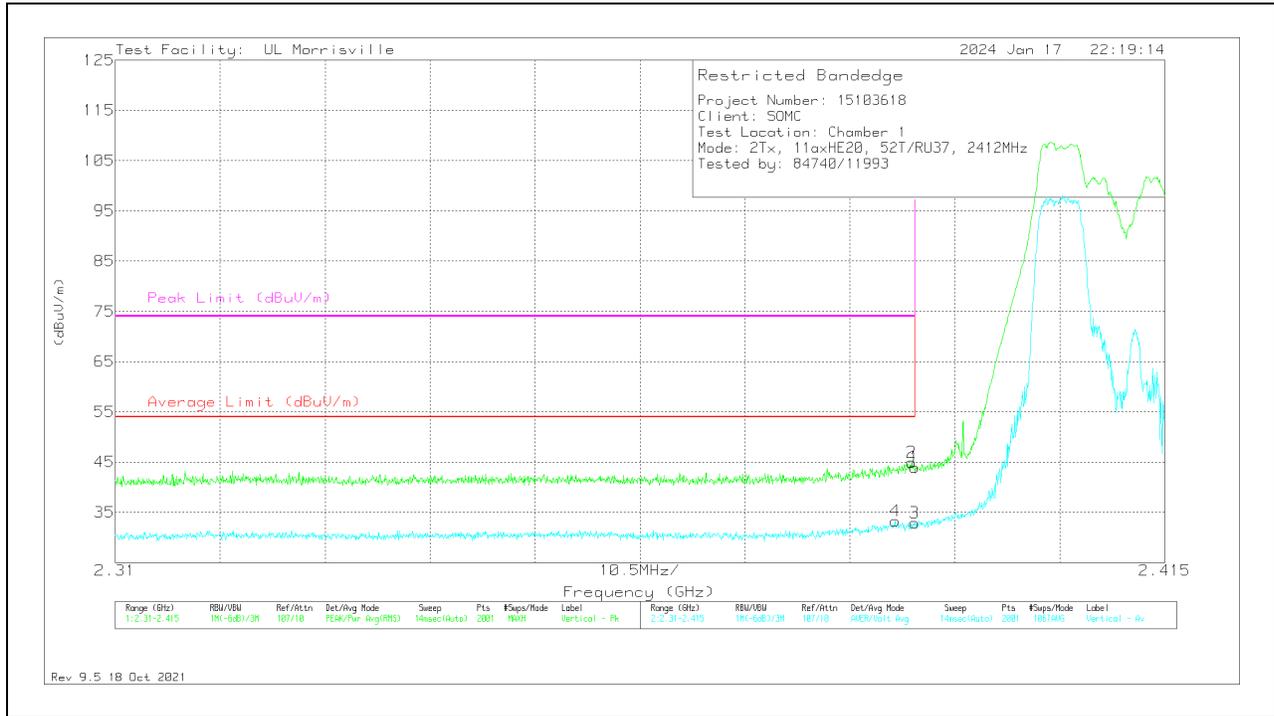
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	36.06	Pk	32.1	-24.2	0	43.96	-	-	74	-30.04	289	104	V
2	*** 2.3897	37.06	Pk	32.1	-24.2	0	44.96	-	-	74	-29.04	289	104	V
3	*** 2.38996	24.46	ADV	32.1	-24.2	.53	32.89	54	-21.11	-	-	289	104	V
4	*** 2.38802	24.86	ADV	32.1	-24.2	.53	33.29	54	-20.71	-	-	289	104	V

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

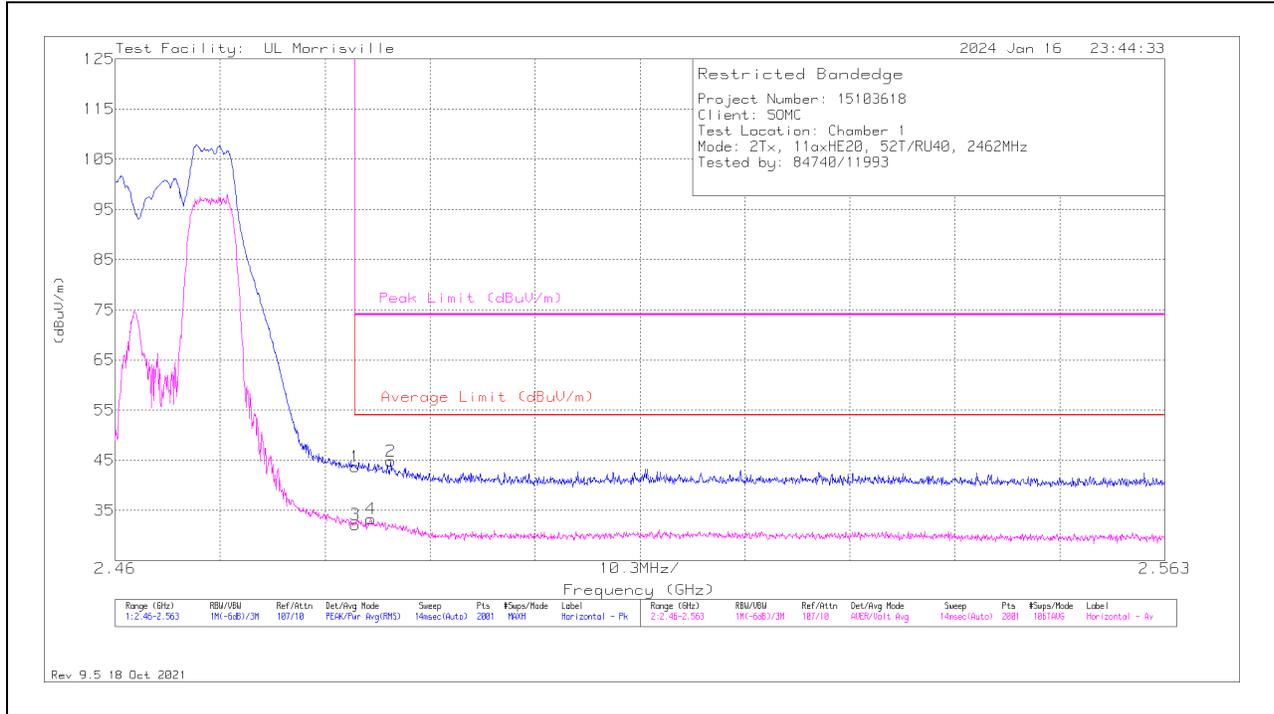
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

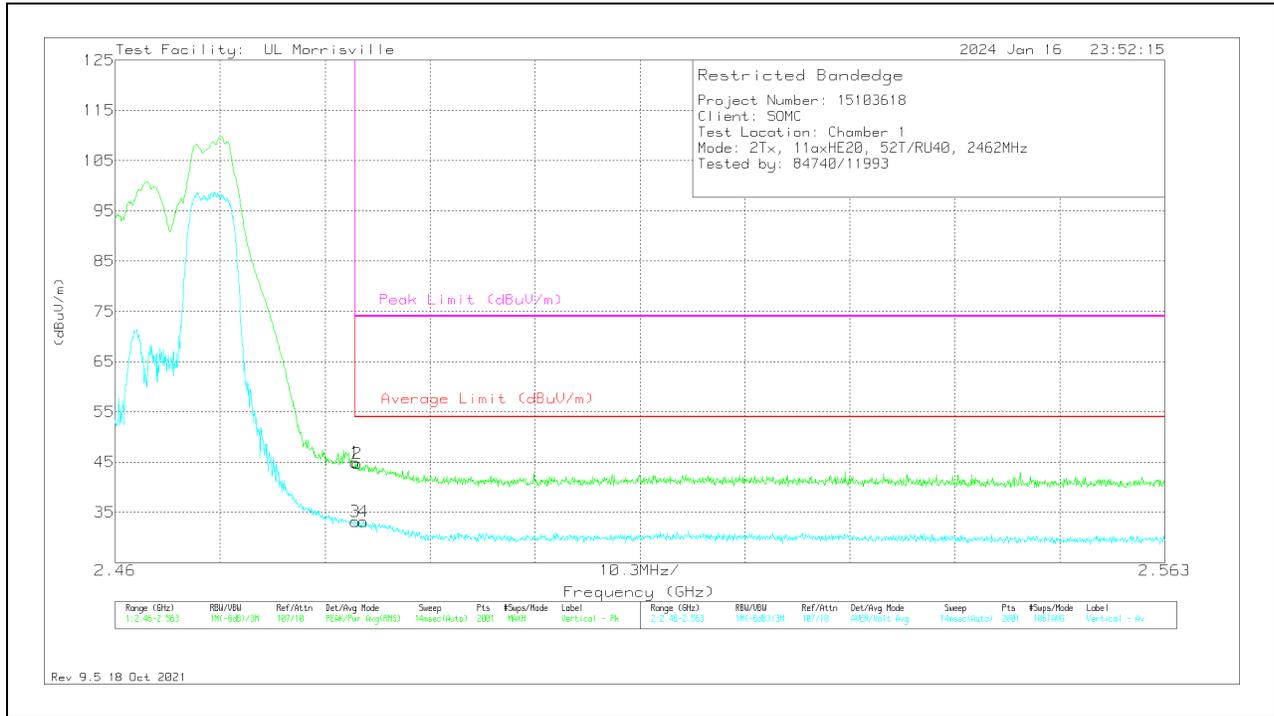
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	35.92	Pk	32.3	-24.5	0	43.72	-	-	74	-30.28	124	112	H
2	* ** 2.48704	37.18	Pk	32.3	-24.6	0	44.88	-	-	74	-29.12	124	112	H
3	* ** 2.48354	23.85	ADV	32.3	-24.5	.53	32.18	54	-21.82	-	-	124	112	H
4	* ** 2.48508	24.95	ADV	32.3	-24.5	.53	33.28	54	-20.72	-	-	124	112	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	37.15	Pk	32.3	-24.5	0	44.95	-	-	74	-29.05	127	108	V
2	*** 2.48374	36.88	Pk	32.3	-24.5	0	44.68	-	-	74	-29.32	127	108	V
3	*** 2.48354	24.82	ADV	32.3	-24.5	.53	33.15	54	-20.85	-	-	127	108	V
4	*** 2.48436	24.81	ADV	32.3	-24.5	.53	33.14	54	-20.86	-	-	127	108	V

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

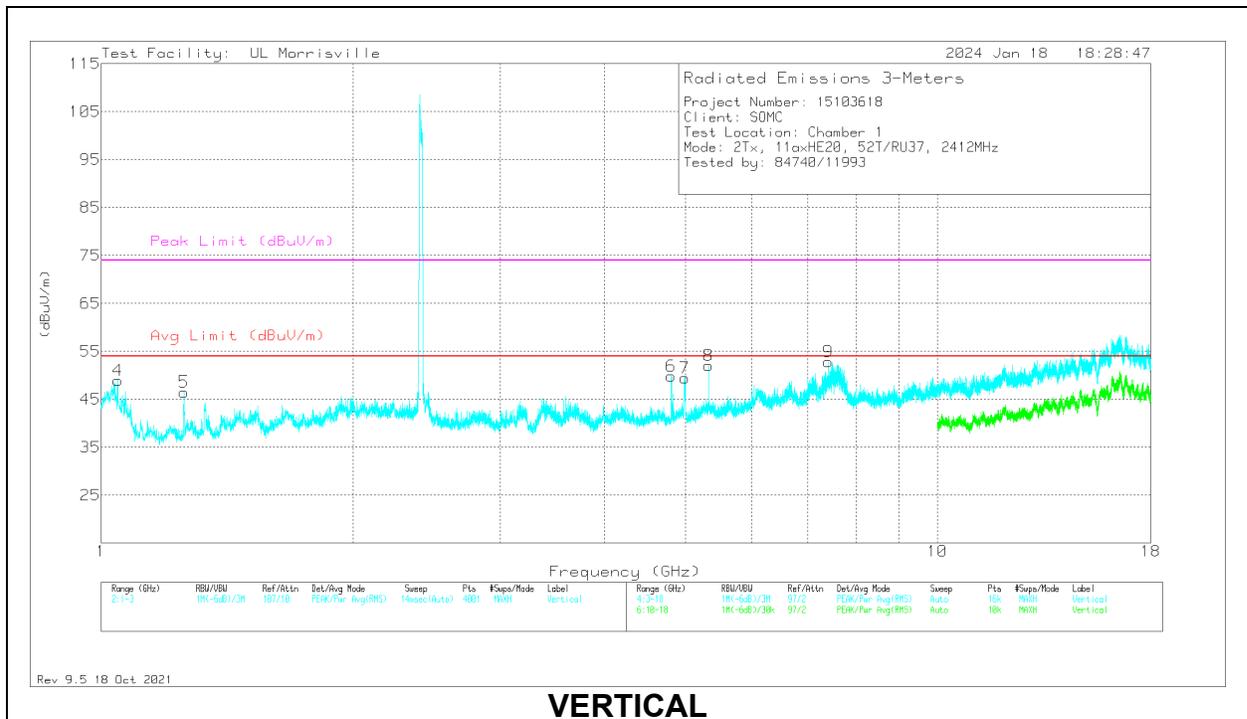
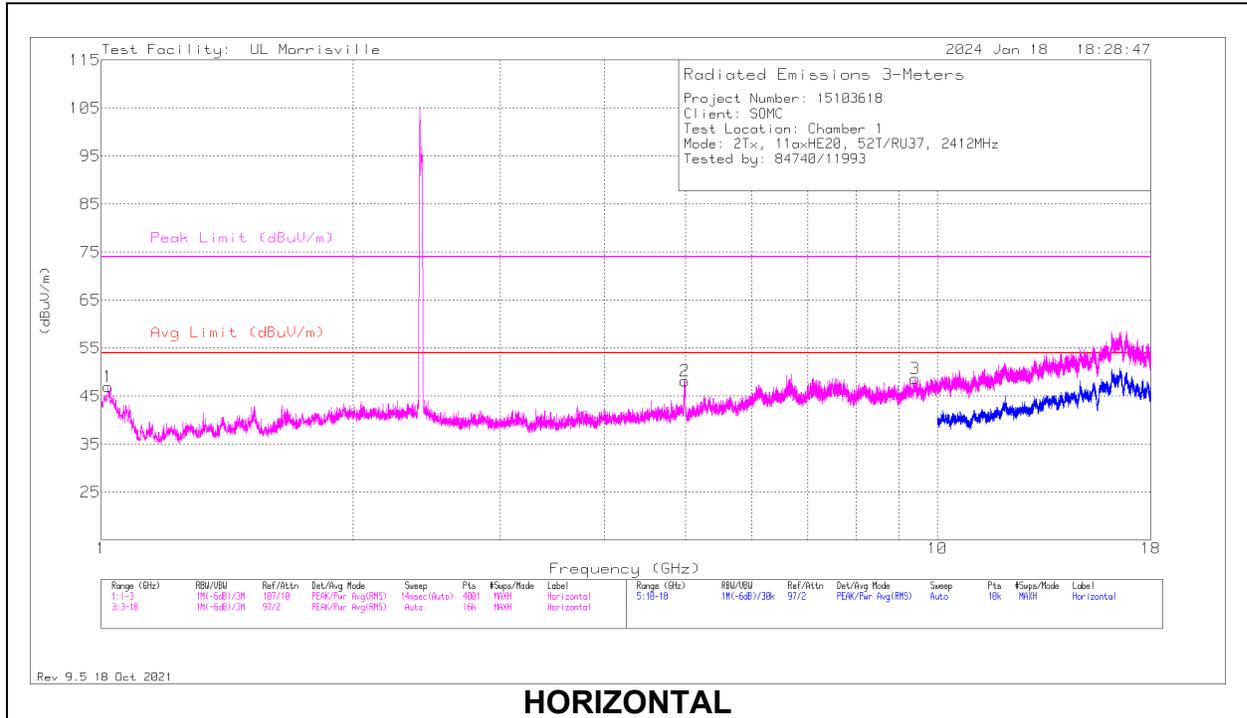
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	* ** 1.0185	45.14	Pk	27.2	-25.3	0	47.04	54	-6.96	74	-26.96	0-360	200	H
4	* ** 1.04519	38.6	PK2	27.3	-25.2	0	40.7	-	-	74	-33.3	100	214	V
	* ** 1.04804	26.21	ADV	27.3	-25.2	.53	28.84	54	-25.16	-	-	100	214	V
5	* 1.2555	41.64	Pk	28.8	-23.9	0	46.54	54	-7.46	74	-27.46	0-360	200	V
2	* ** 4.98873	49.49	PK2	34.1	-30.7	0	52.89	-	-	74	-21.11	203	234	H
	* ** 4.9911	32.78	ADV	34.1	-30.8	.53	36.61	54	-17.39	-	-	203	234	H
3	* ** 9.40659	39.4	PK2	36.4	-25.2	0	50.6	-	-	74	-23.4	226	259	H
	* ** 9.40578	26.96	ADV	36.4	-25.2	.53	38.69	54	-15.31	-	-	226	259	H
6	* ** 4.80955	49.8	PK2	34	-30	0	53.8	-	-	74	-20.2	157	182	V
	* ** 4.80886	36.81	ADV	34	-30	.53	41.34	54	-12.66	-	-	157	182	V
7	* ** 4.98728	49.82	PK2	34.1	-30.7	0	53.22	-	-	74	-20.78	281	114	V
	* ** 4.98698	32.91	ADV	34.1	-30.7	.53	36.84	54	-17.16	-	-	281	114	V
9	* ** 7.40405	45.09	PK2	35.7	-26.6	0	54.19	-	-	74	-19.81	302	101	V
	* ** 7.40318	32.67	ADV	35.7	-26.6	.53	42.3	54	-11.7	-	-	302	101	V
8	5.32594	45.85	Pk	34.5	-28.3	0	52.05	-	-	-	-	0-360	101	V

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

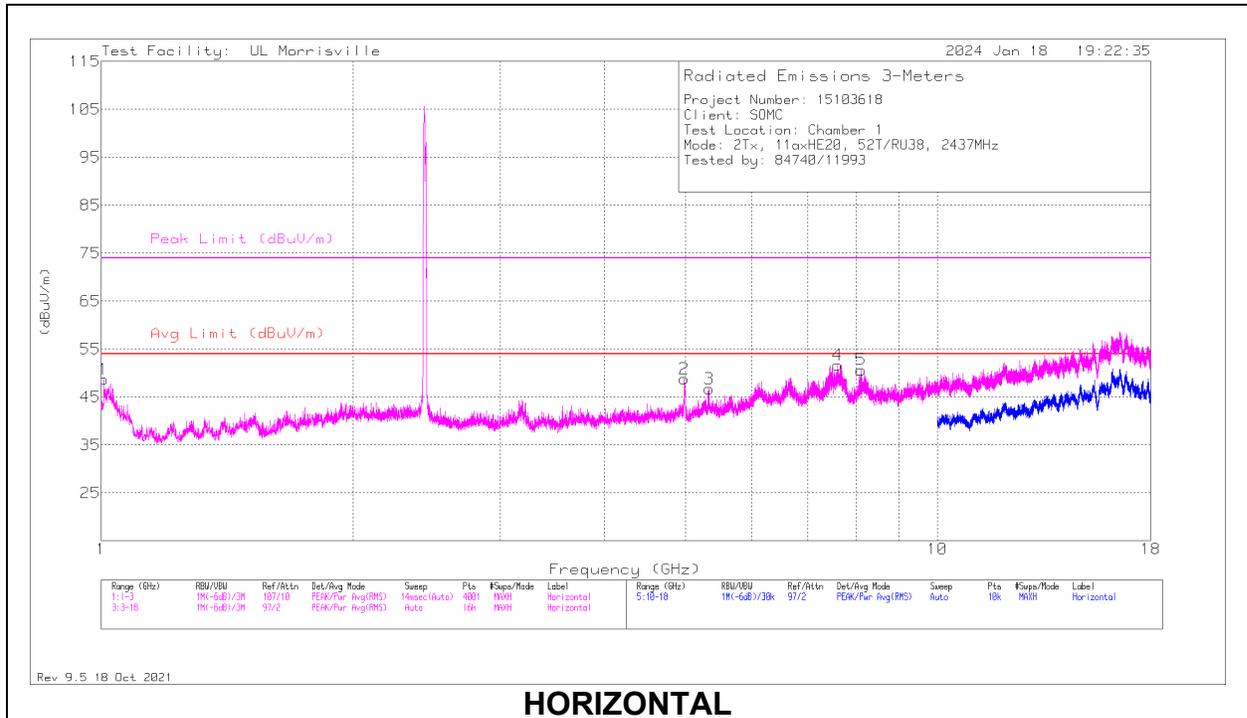
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

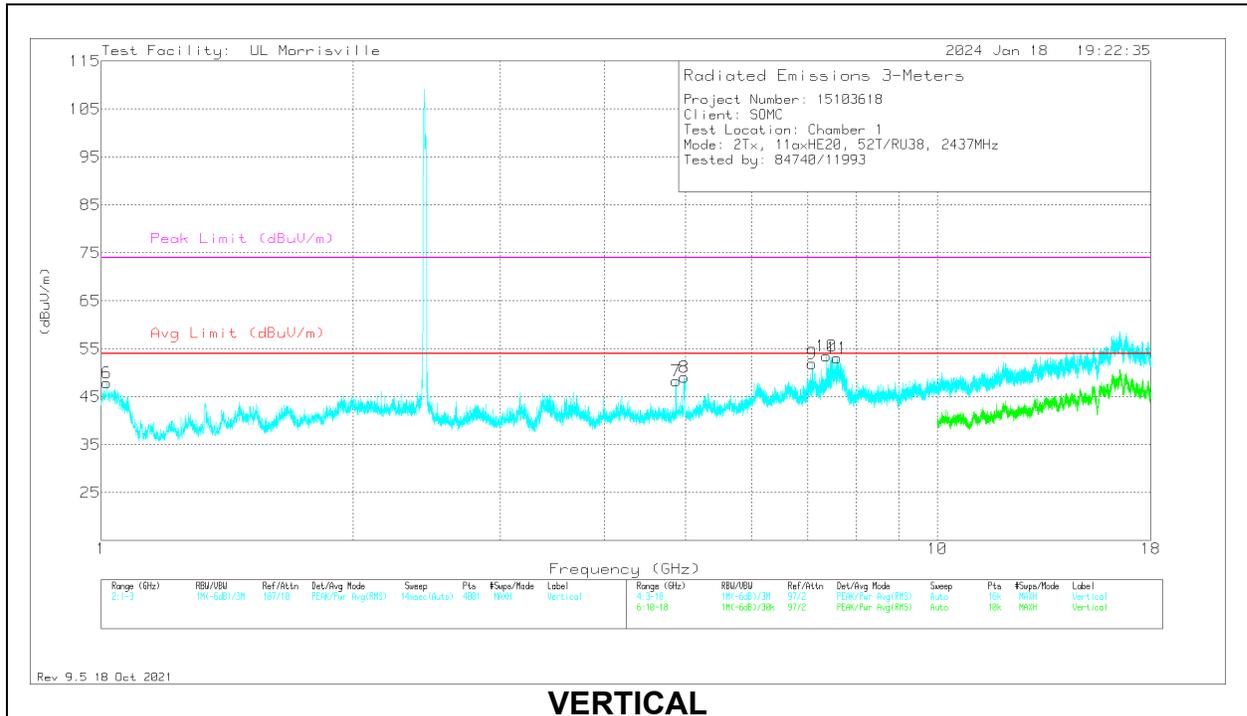
PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	*** 1.00792	48.6	PK2	27.2	-25.4	0	50.4	-	-	74	-23.6	124	209	H
	*** 1.00881	37.07	ADV	27.2	-25.4	.53	39.4	54	-14.6	-	-	124	209	H
6	*** 1.01655	49.83	PK2	27.2	-25.3	0	51.73	-	-	74	-22.27	173	173	V
	*** 1.01502	37.95	ADV	27.2	-25.2	.53	40.48	54	-13.52	-	-	173	173	V
2	*** 4.98216	49.51	PK2	34.1	-30.6	0	53.01	-	-	74	-20.99	174	239	H
	*** 4.98255	33.44	ADV	34.1	-30.6	.53	37.47	54	-16.53	-	-	174	239	H
4	*** 7.59378	44.09	PK2	35.7	-26.6	0	53.19	-	-	74	-20.81	114	104	H
	*** 7.59369	32.3	ADV	35.7	-26.6	.53	41.93	54	-12.07	-	-	114	104	H
5	*** 8.10441	41.8	PK2	35.8	-26.2	0	51.4	-	-	74	-22.6	175	121	H
	*** 8.10514	29.6	ADV	35.8	-26.2	.53	39.73	54	-14.27	-	-	175	121	H
7	*** 4.86732	47.98	PK2	34	-30.5	0	51.48	-	-	74	-22.52	149	210	V
	*** 4.86781	35.9	ADV	34	-30.5	.53	39.93	54	-14.07	-	-	149	210	V
8	*** 4.9814	47.54	PK2	34.1	-30.5	0	51.14	-	-	74	-22.86	210	215	V
	*** 4.98258	31.7	ADV	34.1	-30.6	.53	35.73	54	-18.27	-	-	210	215	V
10	*** 7.36663	45.09	PK2	35.7	-26.7	0	54.09	-	-	74	-19.91	297	103	V
	*** 7.36689	31.89	ADV	35.7	-26.7	.53	41.42	54	-12.58	-	-	297	103	V
11	*** 7.58667	46.14	PK2	35.7	-26.8	0	55.04	-	-	74	-18.96	315	103	V
	*** 7.58757	33.9	ADV	35.7	-26.8	.53	43.33	54	-10.67	-	-	315	103	V
3	5.33156	40.48	Pk	34.5	-28.3	0	46.68	-	-	-	-	0-360	101	H
9	7.08844	43.59	Pk	35.6	-27.2	0	51.99	-	-	-	-	0-360	101	V

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

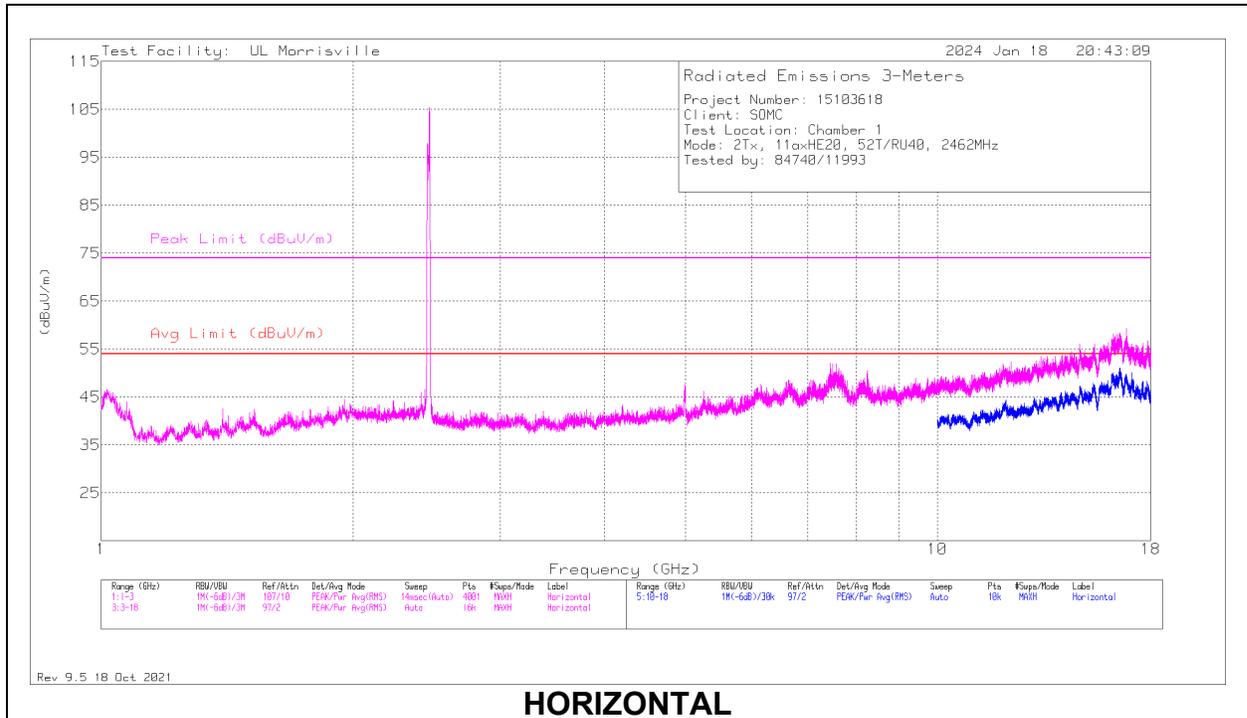
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

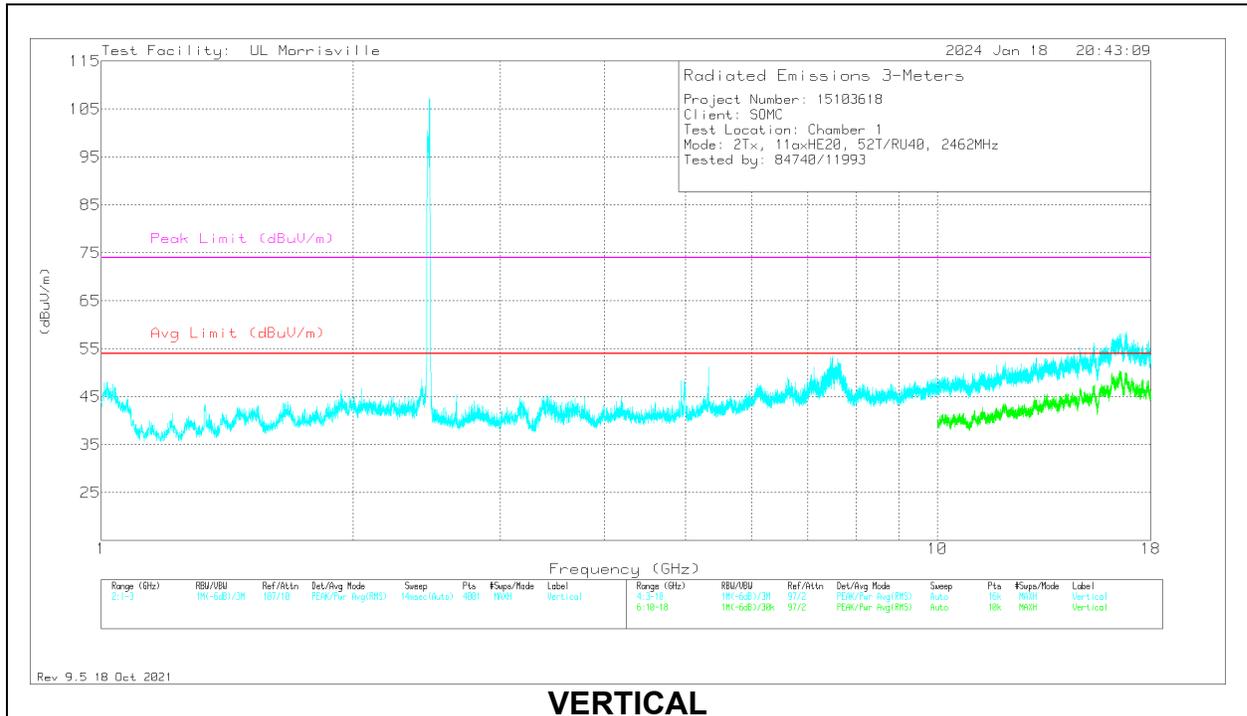
PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	*** 1.016	44.65	Pk	27.2	-25.3	0	46.55	54	-7.45	74	-27.45	0-360	199	H
5	*** 1.01584	46.39	PK2	27.2	-25.2	0	48.39	-	-	74	-25.61	173	134	V
	*** 1.01757	34.73	ADV	27.2	-25.3	.53	37.16	54	-16.84	-	-	173	134	V
6	*** 2.6595	38.99	Pk	32	-25.5	0	45.49	54	-8.51	74	-28.51	0-360	200	V
2	*** 4.99125	44.26	Pk	34.1	-30.8	0	47.56	54	-6.44	74	-26.44	0-360	200	H
3	*** 7.44691	46.11	PK2	35.7	-27.1	0	54.71	-	-	74	-19.29	124	106	H
	*** 7.44489	32.73	ADV	35.7	-27.1	.53	41.86	54	-12.14	-	-	124	106	H
4	*** 8.23809	40.52	PK2	35.9	-26.8	0	49.62	-	-	74	-24.38	171	195	H
	*** 8.23587	28.14	ADV	35.9	-26.9	.53	37.67	54	-16.33	-	-	171	195	H
7	*** 4.98179	48.58	PK2	34.1	-30.6	0	52.08	-	-	74	-21.92	244	217	V
	*** 4.98147	32.48	ADV	34.1	-30.5	.53	36.61	54	-17.39	-	-	244	217	V
9	*** 7.49449	43.99	PK2	35.6	-27.2	0	52.39	-	-	74	-21.61	360	120	V
	*** 7.49068	29.86	ADV	35.6	-27	.53	38.99	54	-15.01	-	-	360	120	V
8	5.325	45.03	Pk	34.5	-28.4	0	51.13	-	-	-	-	0-360	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

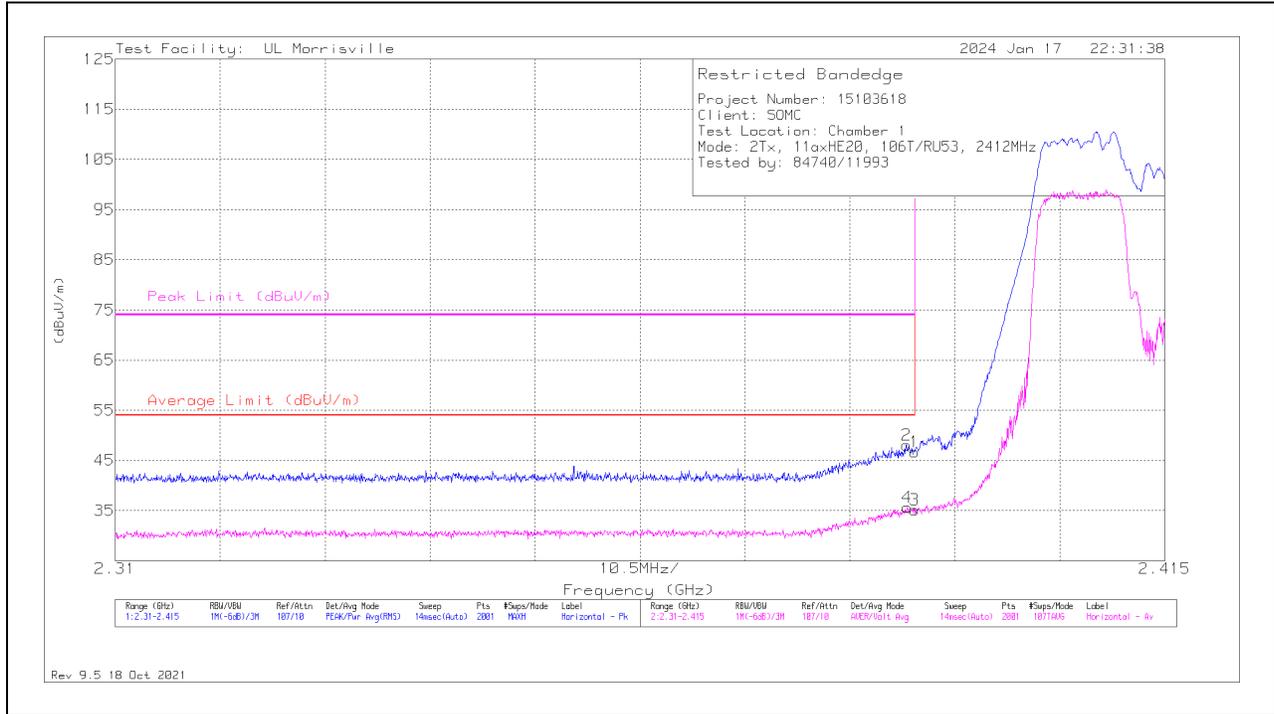
ADV - Linear Voltage Average

10.1.6. TX ABOVE 1 GHz 802.11ax HE20 106T MODE IN THE 2.4 GHz BAND

2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	38.81	Pk	32.1	-24.2	0	46.71	-	-	74	-27.29	161	102	H
2	*** 2.38917	40.15	Pk	32.1	-24.2	0	48.05	-	-	74	-25.95	161	102	H
3	*** 2.38996	26.61	ADV	32.1	-24.2	.61	35.12	54	-18.88	-	-	161	102	H
4	*** 2.38922	27.14	ADV	32.1	-24.2	.61	35.65	54	-18.35	-	-	161	102	H

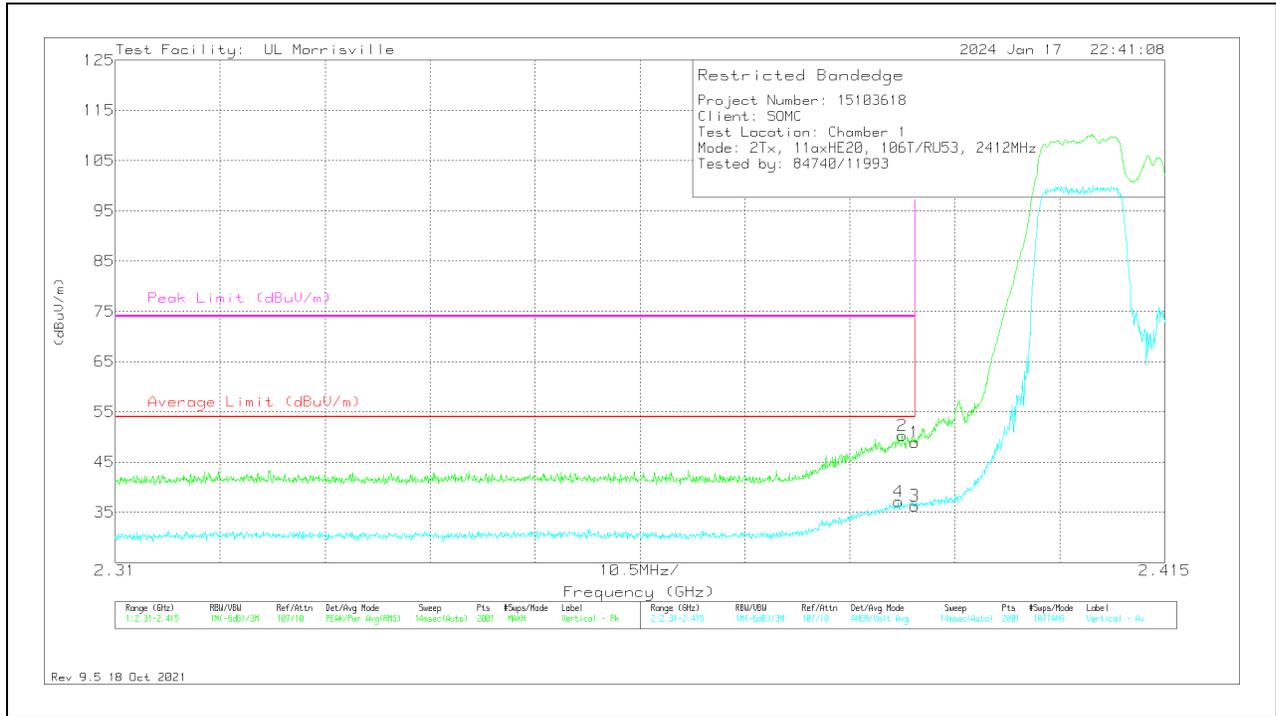
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	41.05	Pk	32.1	-24.2	0	48.95	-	-	74	-25.05	194	251	V
2	*** 2.38875	42.42	Pk	32.1	-24.2	0	50.32	-	-	74	-23.68	194	251	V
3	*** 2.38996	27.81	ADV	32.1	-24.2	.61	36.32	54	-17.68	-	-	194	251	V
4	*** 2.38833	28.6	ADV	32.1	-24.2	.61	37.11	54	-16.89	-	-	194	251	V

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

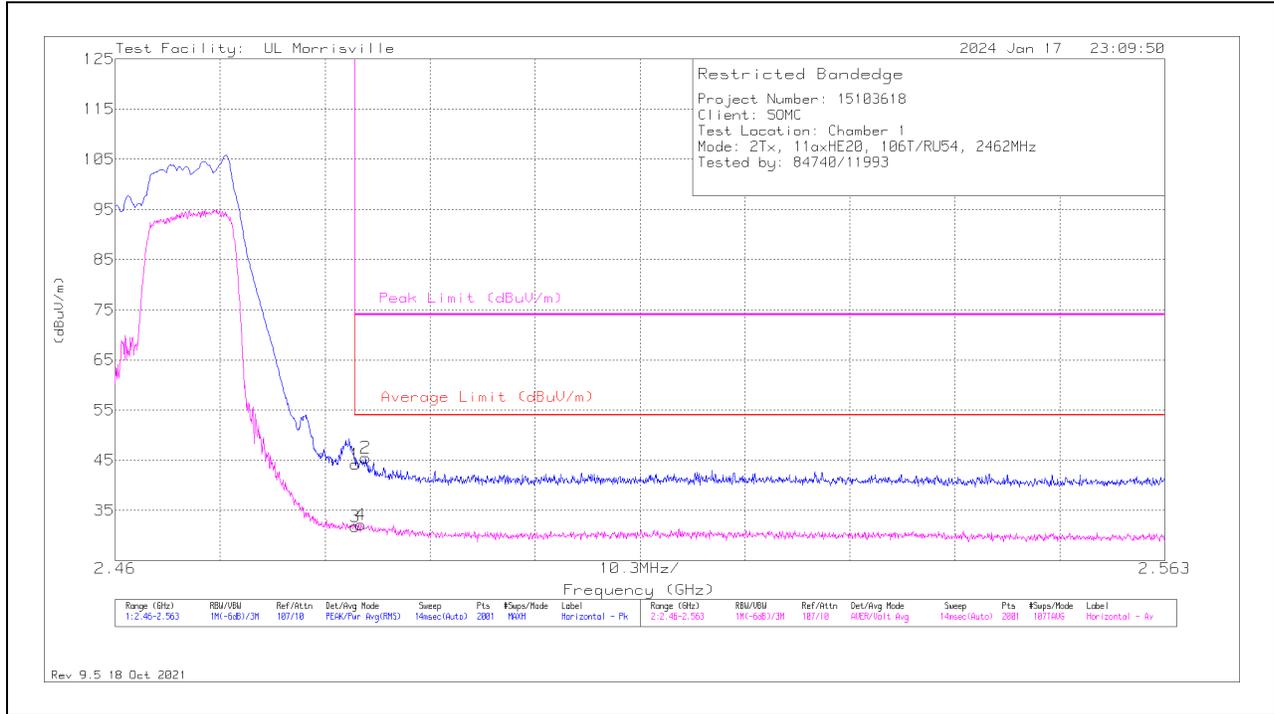
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

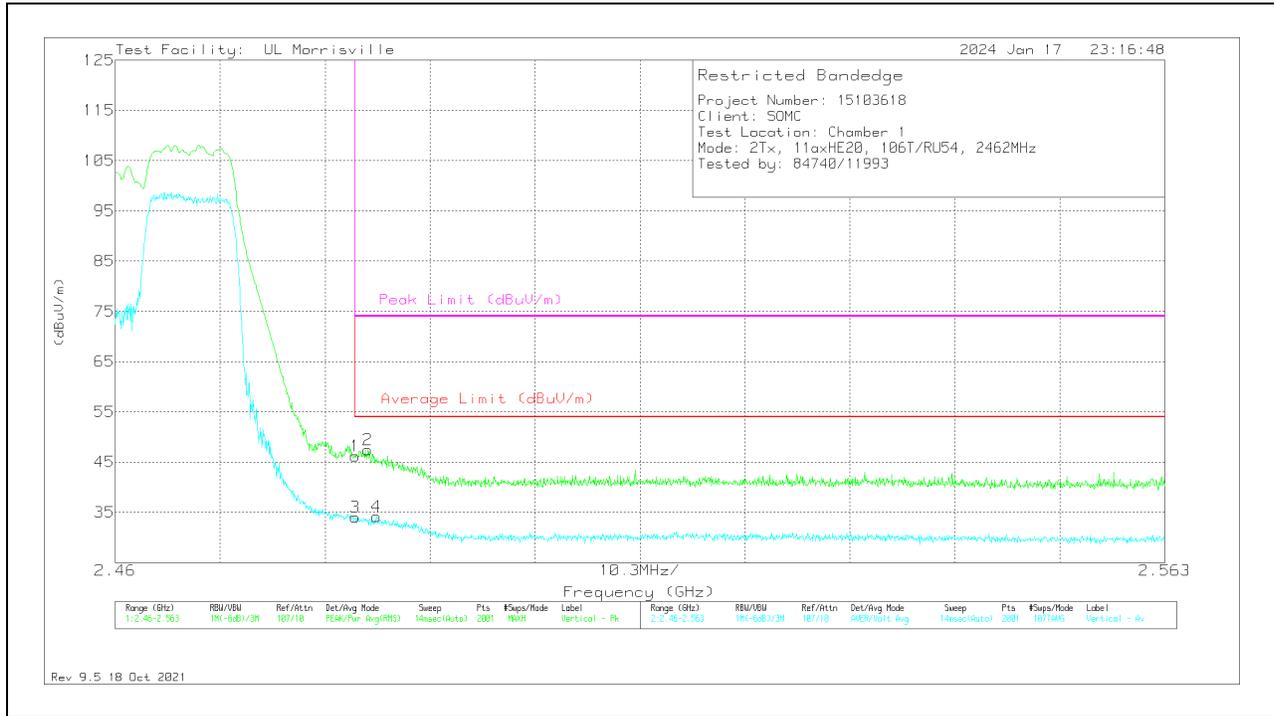
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	36.41	Pk	32.3	-24.5	0	44.21	-	-	74	-29.79	169	247	H
2	*** 2.48457	37.71	Pk	32.3	-24.5	0	45.51	-	-	74	-28.49	169	247	H
3	*** 2.48354	23.34	ADV	32.3	-24.5	.61	31.75	54	-22.25	-	-	169	247	H
4	*** 2.4841	23.81	ADV	32.3	-24.5	.61	32.22	54	-21.78	-	-	169	247	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	38.4	Pk	32.3	-24.5	0	46.2	-	-	74	-27.8	183	173	V
2	*** 2.48477	39.68	Pk	32.3	-24.5	0	47.48	-	-	74	-26.52	183	173	V
3	*** 2.48354	25.56	ADV	32.3	-24.5	.61	33.97	54	-20.03	-	-	183	173	V
4	*** 2.48565	25.8	ADV	32.3	-24.6	.61	34.11	54	-19.89	-	-	183	173	V

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

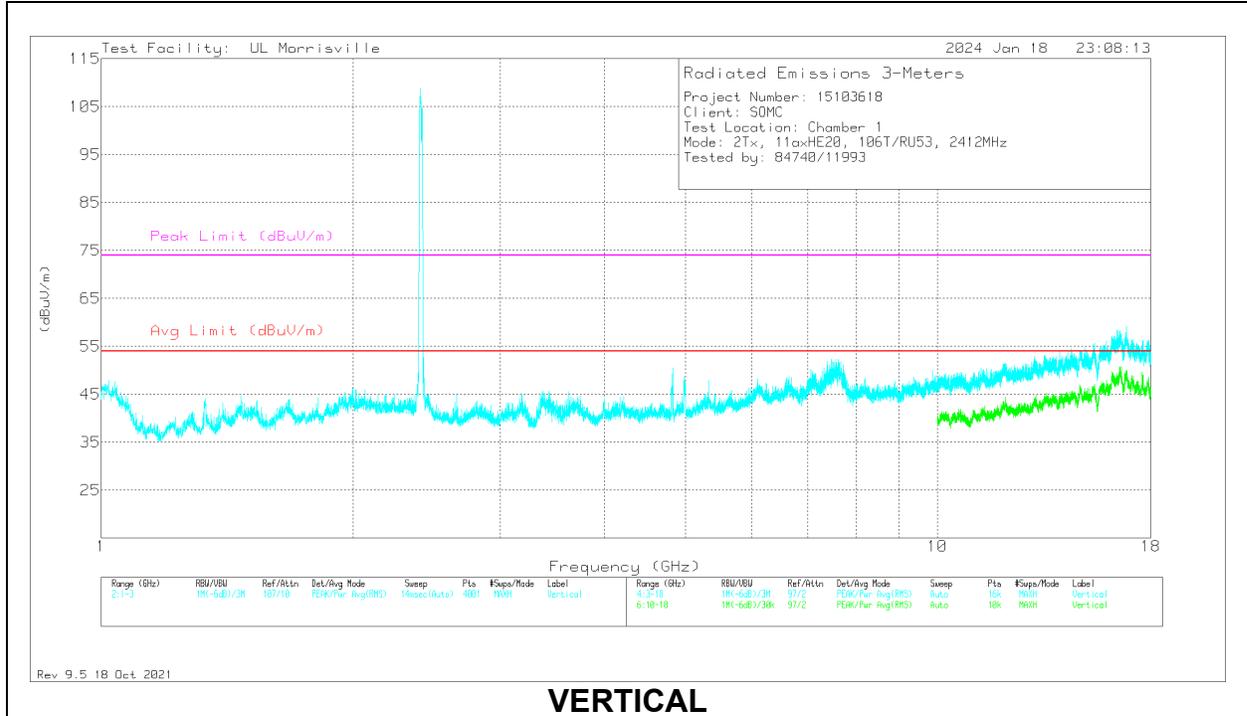
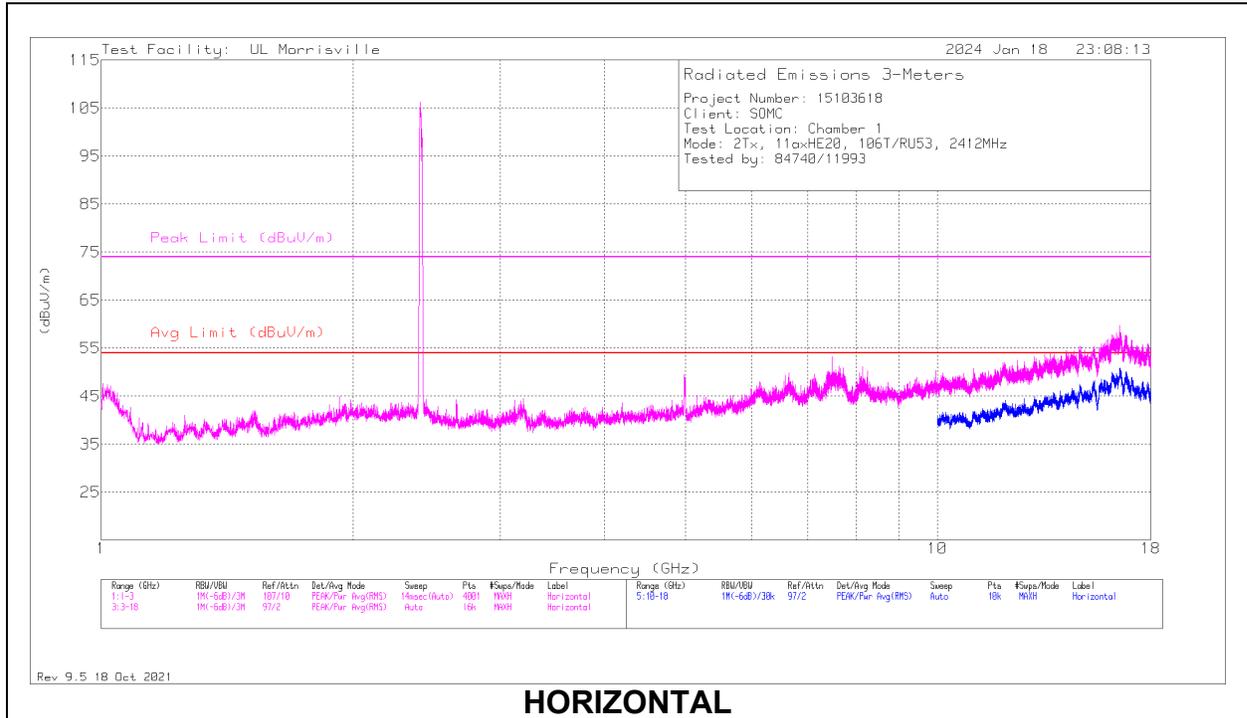
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	*** 1.011	44.77	Pk	27.2	-25.3	0	46.67	54	-7.33	74	-27.33	0-360	199	H
2	*** 2.6565	37.83	Pk	32	-25.5	0	44.33	54	-9.67	74	-29.67	0-360	199	H
6	*** 1.0205	45.98	Pk	27.2	-25.3	0	47.88	54	-6.12	74	-26.12	0-360	200	V
7	*** 2.661	38.44	Pk	32	-25.5	0	44.94	54	-9.06	74	-29.06	0-360	200	V
3	*** 4.98275	48	PK2	34.1	-30.6	0	51.5	-	-	74	-22.5	219	201	H
	*** 4.98323	31.94	ADV	34.1	-30.6	.61	36.05	54	-17.95	-	-	219	201	H
4	*** 7.4871	47.04	PK2	35.6	-26.9	0	55.74	-	-	74	-18.26	129	112	H
	*** 7.48738	33.37	ADV	35.6	-26.9	.61	42.68	54	-11.32	-	-	129	112	H
5	*** 8.14189	39.07	PK2	35.8	-26.5	0	48.37	-	-	74	-25.63	284	383	H
	*** 8.14002	26.65	ADV	35.8	-26.6	.61	36.46	54	-17.54	-	-	284	383	H
8	*** 4.82693	47.86	PK2	34	-30.2	0	51.66	-	-	74	-22.34	142	156	V
	*** 4.82672	28.58	ADV	34	-30.2	.61	32.99	54	-21.01	-	-	142	156	V
9	*** 4.98426	48.7	PK2	34.1	-30.6	0	52.2	-	-	74	-21.8	244	226	V
	*** 4.98412	32.71	ADV	34.1	-30.6	.61	36.82	54	-17.18	-	-	244	226	V
11	*** 7.49103	46.7	PK2	35.6	-27	0	55.3	-	-	74	-18.7	336	312	V
	*** 7.48988	26.71	ADV	35.6	-27	.61	35.92	54	-18.08	-	-	336	312	V
12	*** 9.36463	39.44	PK2	36.3	-25.7	0	50.04	-	-	74	-23.96	222	221	V
	*** 9.36599	26.44	ADV	36.3	-25.6	.61	37.75	54	-16.25	-	-	222	221	V
10	5.32219	42.01	Pk	34.5	-28.6	0	47.91	-	-	-	-	0-360	101	V

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

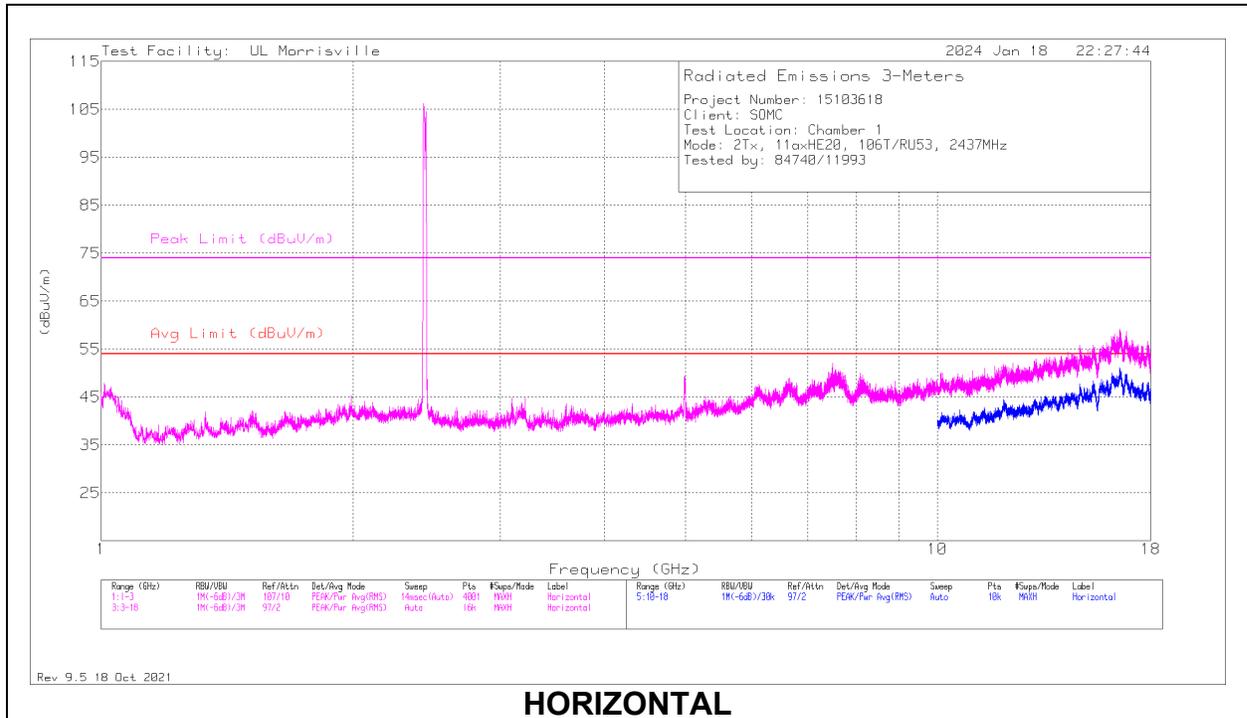
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

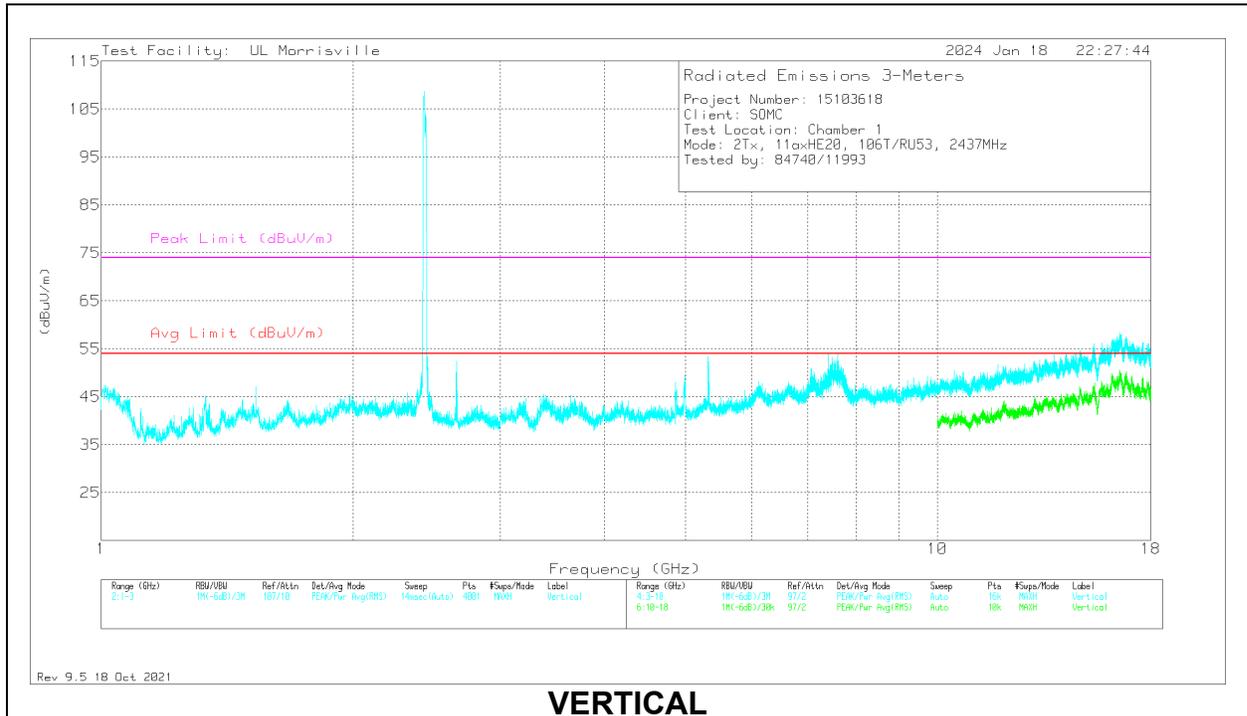
PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	*** 1.009	46.09	Pk	27.2	-25.4	0	47.89	54	-6.11	74	-26.11	0-360	199	H
5	*** 1.012	45.4	Pk	27.2	-25.2	0	47.4	54	-6.6	74	-26.6	0-360	200	V
6	*** 1.5305	41.95	Pk	27.9	-22.7	0	47.15	54	-6.85	74	-26.85	0-360	200	V
7	*** 2.66257	52.31	PK2	32	-25.6	0	58.71	-	-	74	-15.29	252	121	V
	*** 2.66092	24.21	ADV	32	-25.5	.61	31.32	54	-22.68	-	-	252	121	V
2	*** 4.98474	48.99	PK2	34.1	-30.7	0	52.39	-	-	74	-21.61	203	224	H
	*** 4.9872	33.04	ADV	34.1	-30.7	.61	37.05	54	-16.95	-	-	203	224	H
3	*** 7.48982	46.37	PK2	35.6	-27	0	54.97	-	-	74	-19.03	119	104	H
	*** 7.48944	32.7	ADV	35.6	-26.9	.61	42.01	54	-11.99	-	-	119	104	H
4	*** 8.13351	42.85	PK2	35.8	-26.6	0	52.05	-	-	74	-21.95	164	115	H
	*** 8.13528	30.24	ADV	35.8	-26.6	.61	40.05	54	-13.95	-	-	164	115	H
8	*** 4.86181	47.41	PK2	34	-30.4	0	51.01	-	-	74	-22.99	150	279	V
	*** 4.8626	34.61	ADV	34	-30.4	.61	38.82	54	-15.18	-	-	150	279	V
9	*** 4.9864	48.77	PK2	34.1	-30.7	0	52.17	-	-	74	-21.83	246	206	V
	*** 4.98383	32.73	ADV	34.1	-30.6	.61	36.84	54	-17.16	-	-	246	206	V
11	*** 7.40341	44.75	PK2	35.7	-26.6	0	53.85	-	-	74	-20.15	295	116	V
	*** 7.40533	32.2	ADV	35.7	-26.6	.61	41.91	54	-12.09	-	-	295	116	V
12	*** 7.5994	46.84	PK2	35.7	-26.8	0	55.74	-	-	74	-18.26	314	101	V
	*** 7.60224	34.58	ADV	35.7	-26.9	.61	43.99	54	-10.01	-	-	314	101	V
10	5.31563	47.82	Pk	34.5	-29	0	53.32	-	-	-	-	0-360	101	V

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

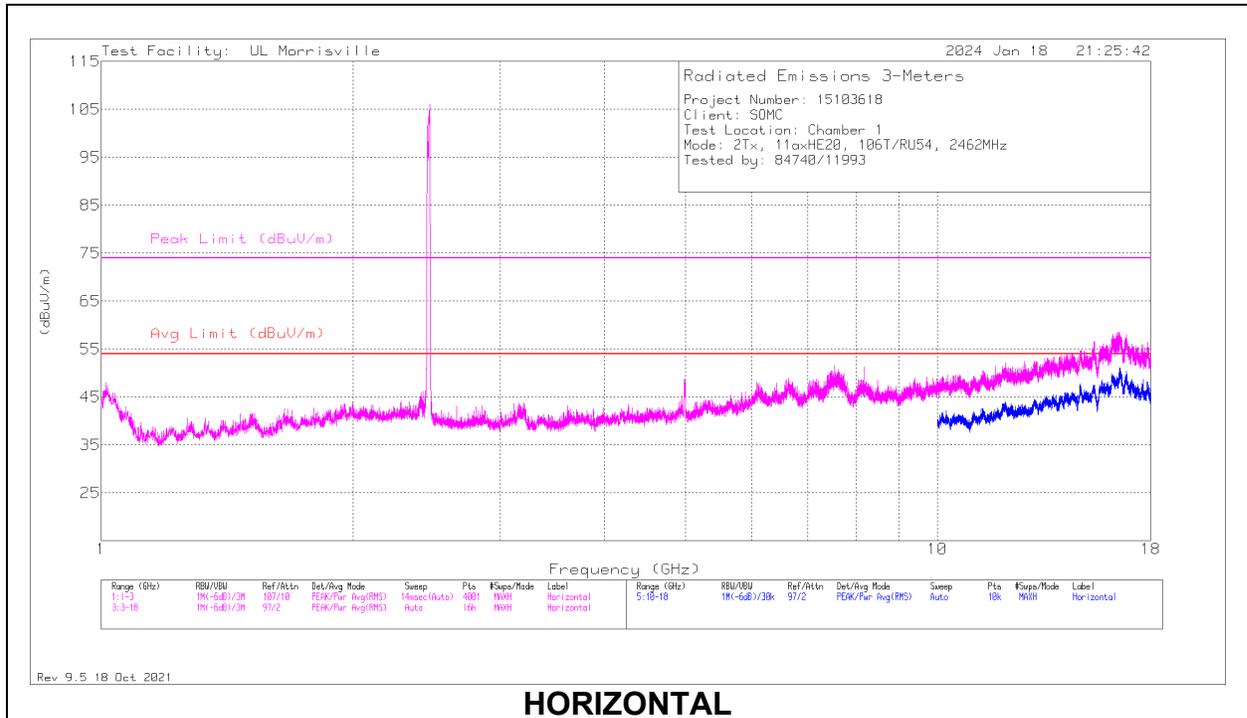
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

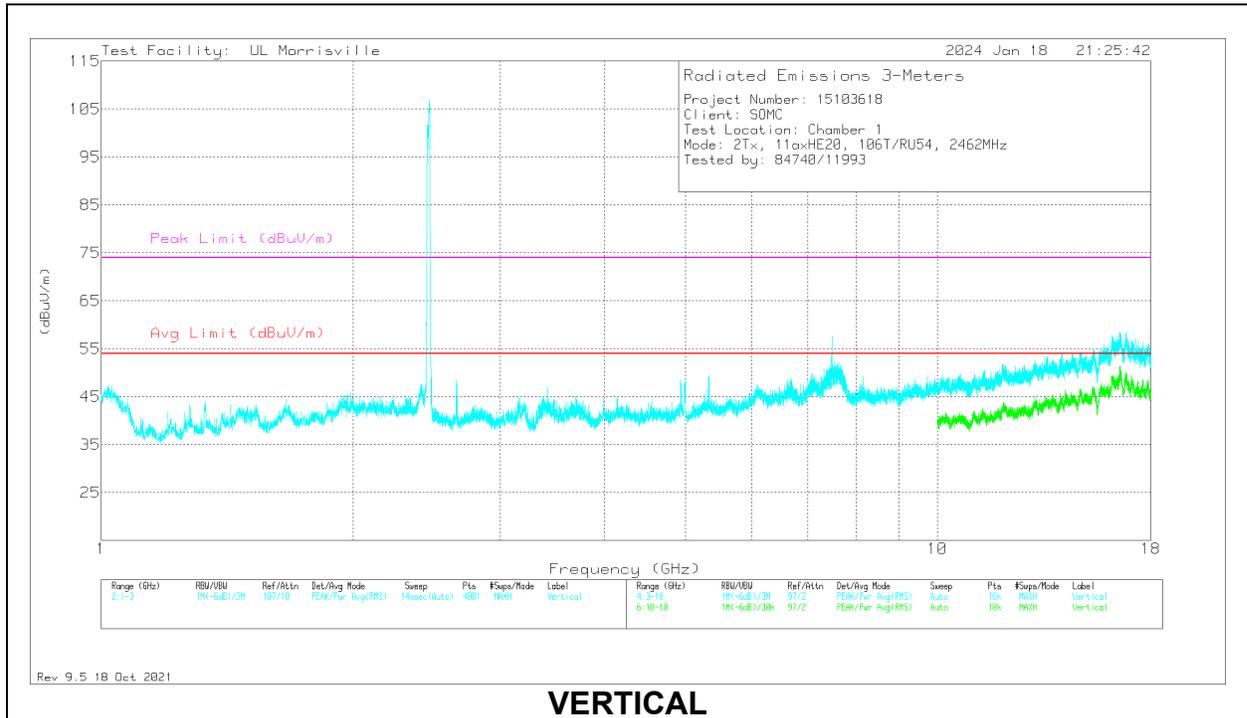
PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	*** 1.01161	49.02	PK2	27.2	-25.3	0	50.92	-	-	74	-23.08	126	214	H
	*** 1.01092	37.33	ADV	27.2	-25.3	.61	39.84	54	-14.16	-	-	126	214	H
5	*** 1.021	45	Pk	27.2	-25.3	0	46.9	54	-7.1	74	-27.1	0-360	200	V
6	*** 2.65989	51.71	PK2	32	-25.5	0	58.21	-	-	74	-15.79	237	118	V
	*** 2.65962	24.46	ADV	32	-25.5	.61	31.57	54	-22.43	-	-	237	118	V
2	*** 4.98178	48	PK2	34.1	-30.6	0	51.5	-	-	74	-22.5	180	131	H
	*** 4.98182	31.07	ADV	34.1	-30.6	.61	35.18	54	-18.82	-	-	180	131	H
3	*** 7.54028	50.02	PK2	35.6	-26.9	0	58.72	-	-	74	-15.28	127	131	H
	*** 7.53784	34.01	ADV	35.6	-26.9	.61	43.32	54	-10.68	-	-	127	131	H
4	*** 8.18234	42.75	PK2	35.8	-26.3	0	52.25	-	-	74	-21.75	179	103	H
	*** 8.18177	30.42	ADV	35.8	-26.3	.61	40.53	54	-13.47	-	-	179	103	H
7	*** 4.93356	49.22	PK2	34	-30.6	0	52.62	-	-	74	-21.38	161	205	V
	*** 4.93497	35.78	ADV	34	-30.6	.61	39.79	54	-14.21	-	-	161	205	V
9	*** 7.4815	50.26	PK2	35.6	-27	0	58.86	-	-	74	-15.14	298	101	V
	*** 7.4797	35.81	ADV	35.6	-27.1	.61	44.92	54	-9.08	-	-	298	101	V
10	*** 8.15337	39.81	PK2	35.8	-26.3	0	49.31	-	-	74	-24.69	222	175	V
	*** 8.15328	27.62	ADV	35.8	-26.3	.61	37.73	54	-16.27	-	-	222	175	V
8	5.33156	43	Pk	34.5	-28.3	0	49.2	-	-	-	-	0-360	200	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

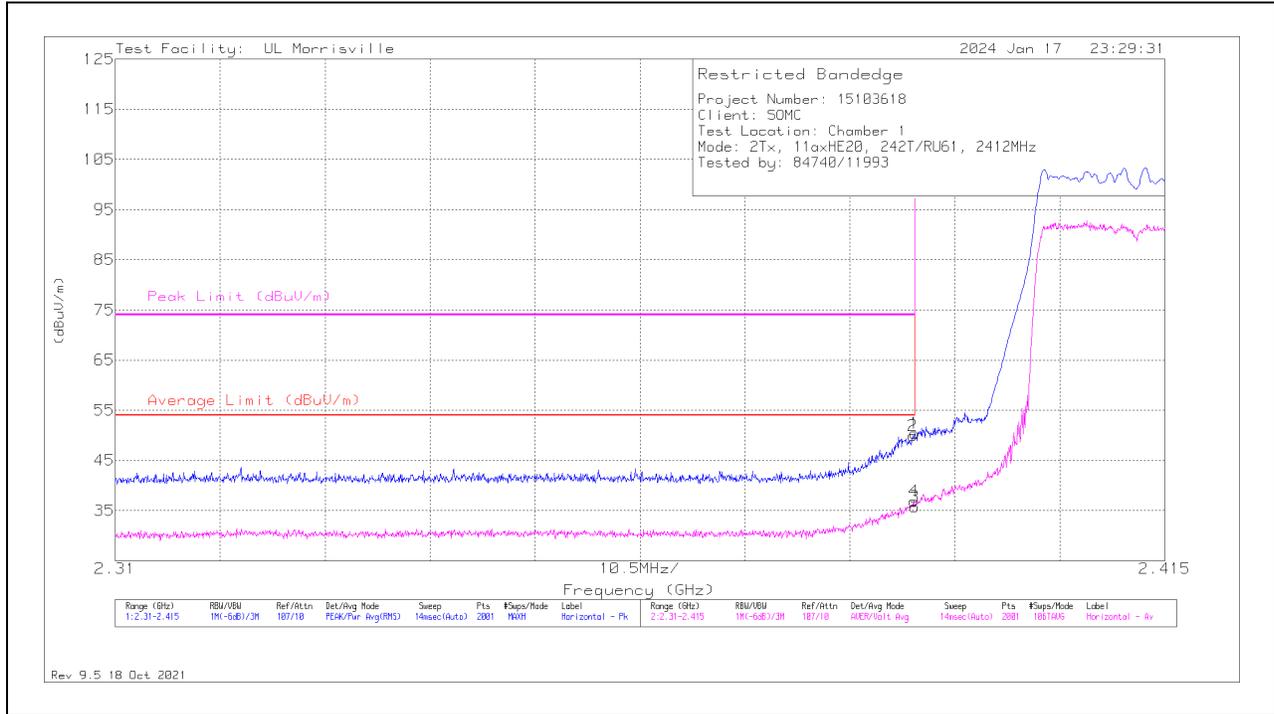
ADV - Linear Voltage Average

10.1.1. TX ABOVE 1 GHz 802.11ax HE20 242T MODE IN THE 2.4 GHz BAND

2TX Chain 0 + Chain 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	42.54	Pk	32.1	-24.2	0	50.44	-	-	74	-23.56	106	178	H
2	** 2.3898	41.99	Pk	32.1	-24.2	0	49.89	-	-	74	-24.11	106	178	H
3	*** 2.38996	27.29	ADV	32.1	-24.2	.56	35.75	54	-18.25	-	-	106	178	H
4	*** 2.38991	28.42	ADV	32.1	-24.2	.56	36.88	54	-17.12	-	-	106	178	H

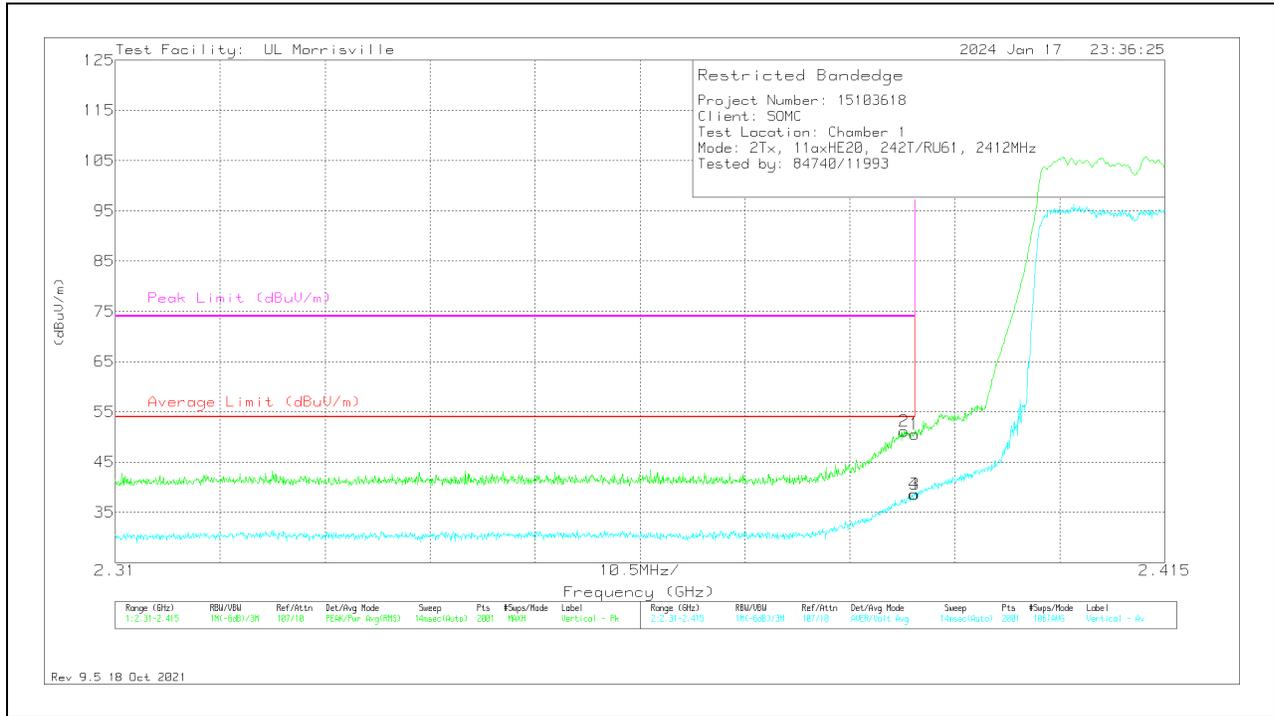
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	42.7	Pk	32.1	-24.2	0	50.6	-	-	74	-23.4	181	179	V
2	*** 2.38891	43.25	Pk	32.1	-24.2	0	51.15	-	-	74	-22.85	181	179	V
3	*** 2.38996	30.12	ADV	32.1	-24.2	.56	38.58	54	-15.42	-	-	181	179	V
4	*** 2.38991	30.18	ADV	32.1	-24.2	.56	38.64	54	-15.36	-	-	181	179	V

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

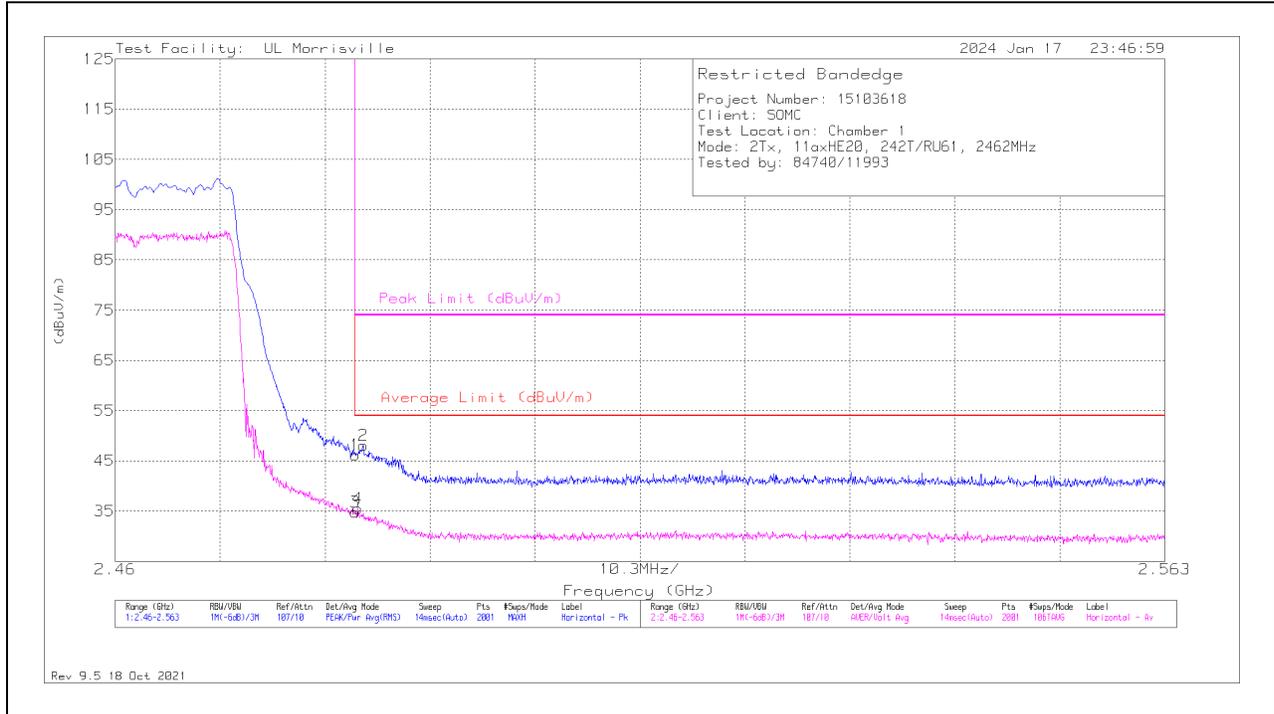
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

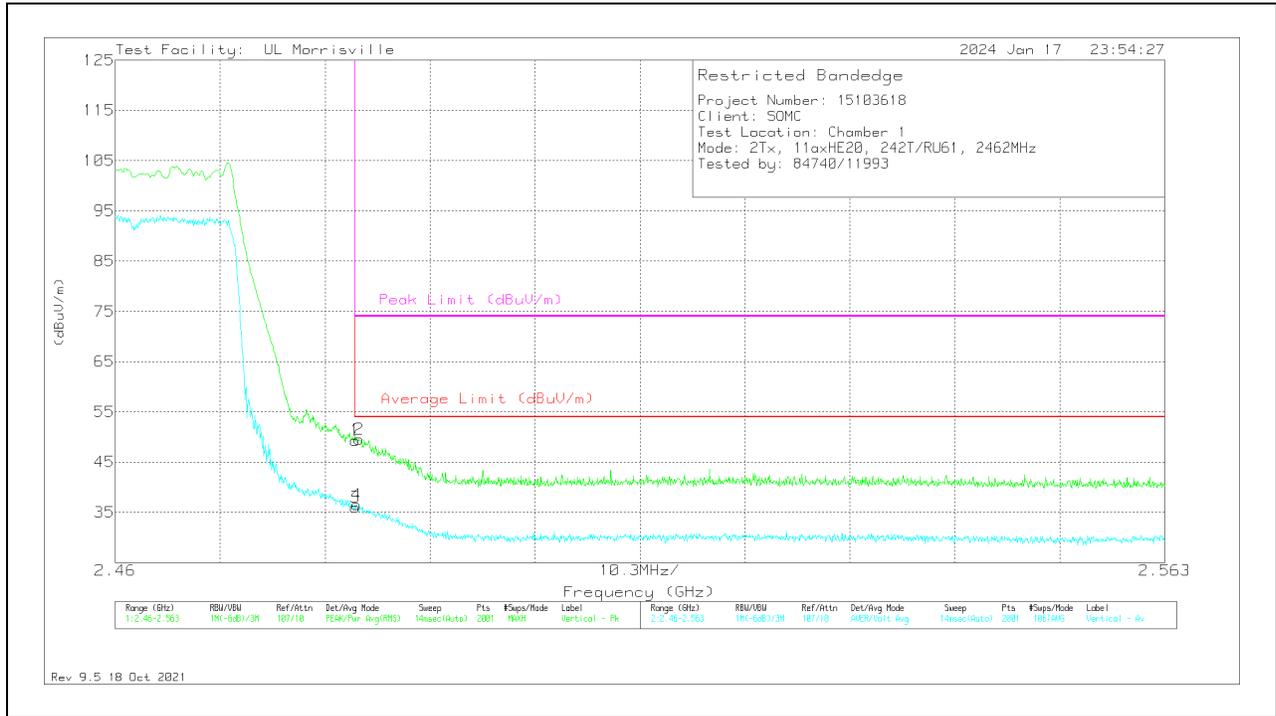
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	38.34	Pk	32.3	-24.5	0	46.14	-	-	74	-27.86	121	157	H
2	*** 2.48436	40.29	Pk	32.3	-24.5	0	48.09	-	-	74	-25.91	121	157	H
3	*** 2.48354	26.36	ADV	32.3	-24.5	.56	34.72	54	-19.28	-	-	121	157	H
4	*** 2.48379	27.15	ADV	32.3	-24.5	.56	35.51	54	-18.49	-	-	121	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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	41.56	Pk	32.3	-24.5	0	49.36	-	-	74	-24.64	209	324	V
2	*** 2.48395	41.75	Pk	32.3	-24.5	0	49.55	-	-	74	-24.45	209	324	V
3	*** 2.48354	27.63	ADV	32.3	-24.5	.56	35.99	54	-18.01	-	-	209	324	V
4	*** 2.48369	28.15	ADV	32.3	-24.5	.56	36.51	54	-17.49	-	-	209	324	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

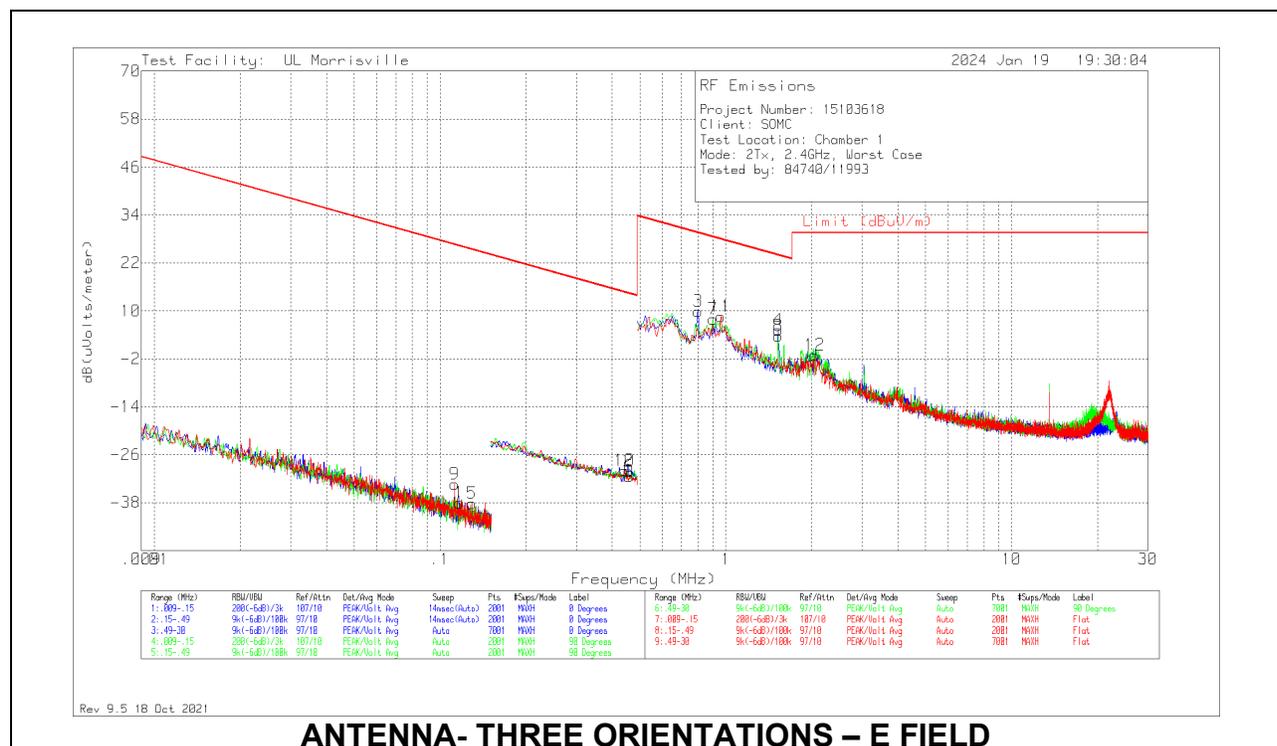
Pk - Peak detector

ADV - Linear Voltage Average

10.2. WORST CASE BELOW 30MHZ

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).



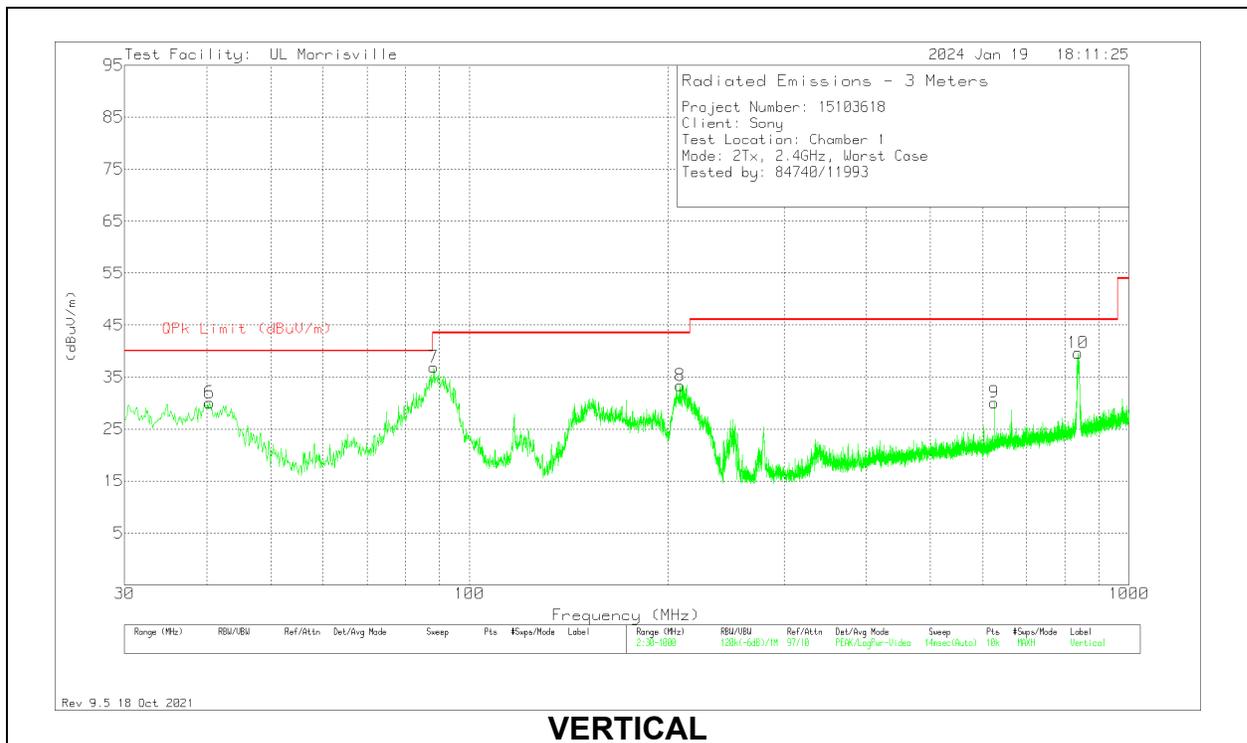
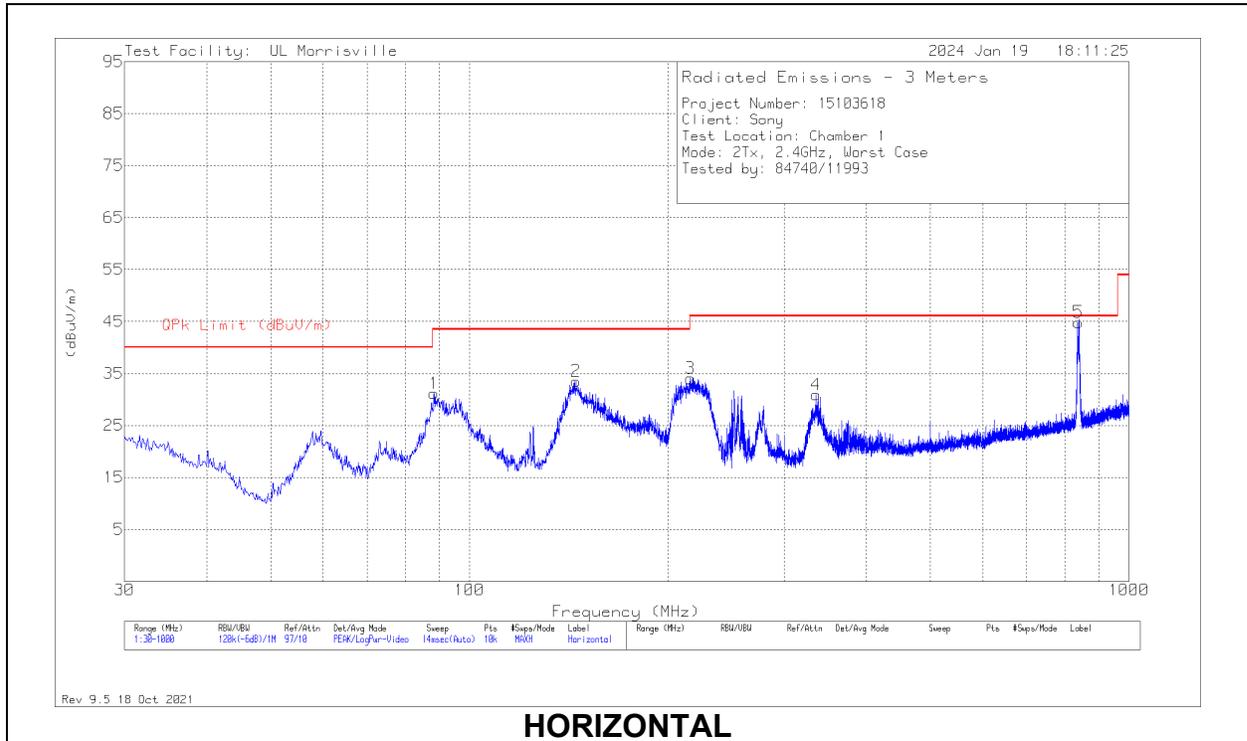
ANTENNA- THREE ORIENTATIONS – E FIELD

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	65682 (dBuV/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.11678	31.69	Pk	10.2	.1	-80	-38.01	26.26	46.26	-64.27	0-360	0 degs
2	.45736	39.64	Pk	10.1	.1	-80	-30.16	14.4	34.4	-44.56	0-360	0 degs
3	.79777	39.57	Pk	10.2	.1	-40	9.87	29.57	-	-19.7	0-360	0 degs
4	1.52292	34.64	Pk	10.4	.2	-40	5.24	23.95	-	-18.71	0-360	0 degs
5	.12935	31.49	Pk	10.2	.1	-80	-38.21	25.37	45.37	-63.58	0-360	90 degs
6	.45855	38.31	Pk	10.1	.1	-80	-31.49	14.38	34.38	-45.87	0-360	90 degs
7	.90317	37.56	Pk	10.2	.2	-40	7.96	28.49	-	-20.53	0-360	90 degs
8	1.52292	33.08	Pk	10.4	.2	-40	3.68	23.95	-	-20.27	0-360	90 degs
9	.11223	36.36	Pk	10.2	.1	-80	-33.34	26.6	46.6	-59.94	0-360	Flat
10	.44155	39.88	Pk	10	.1	-80	-30.02	14.7	34.7	-44.72	0-360	Flat
11	.96219	38.12	Pk	10.3	.2	-40	8.62	27.94	-	-19.32	0-360	Flat
12	2.0457	28.3	Pk	10.4	.2	-40	-1.1	29.54	-	-30.64	0-360	Flat

Pk - Peak detector

10.3. WORST CASE BELOW 1 GHZ

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



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	40.379	42.09	Pk	19.5	-31.5	30.09	40	-9.91	0-360	100	V
7	88.297	54.2	Pk	13.7	-31	36.9	43.52	-6.62	0-360	100	V
1	88.394	48.43	Pk	13.7	-31	31.13	43.52	-12.39	0-360	199	H
2	145.042	45.3	Pk	18.8	-30.6	33.5	43.52	-10.02	0-360	199	H
8	208.868	46.77	Pk	16.5	-29.9	33.37	43.52	-10.15	0-360	100	V
3	216.24	47.24	Pk	16.6	-29.8	34.04	46.02	-11.98	0-360	100	H
4	335.55	40.1	Pk	20	-29.2	30.9	46.02	-15.12	0-360	100	H
9	624.998	32.92	Pk	25.4	-28.2	30.12	46.02	-15.9	0-360	100	V
10	** 837.137	39.03	Pk	27.6	-27	39.63	46.02	-6.39	0-360	100	V
5	** 838.27209	41.18	Qp	27.6	-26.8	41.98	46.02	-4.04	269	100	H

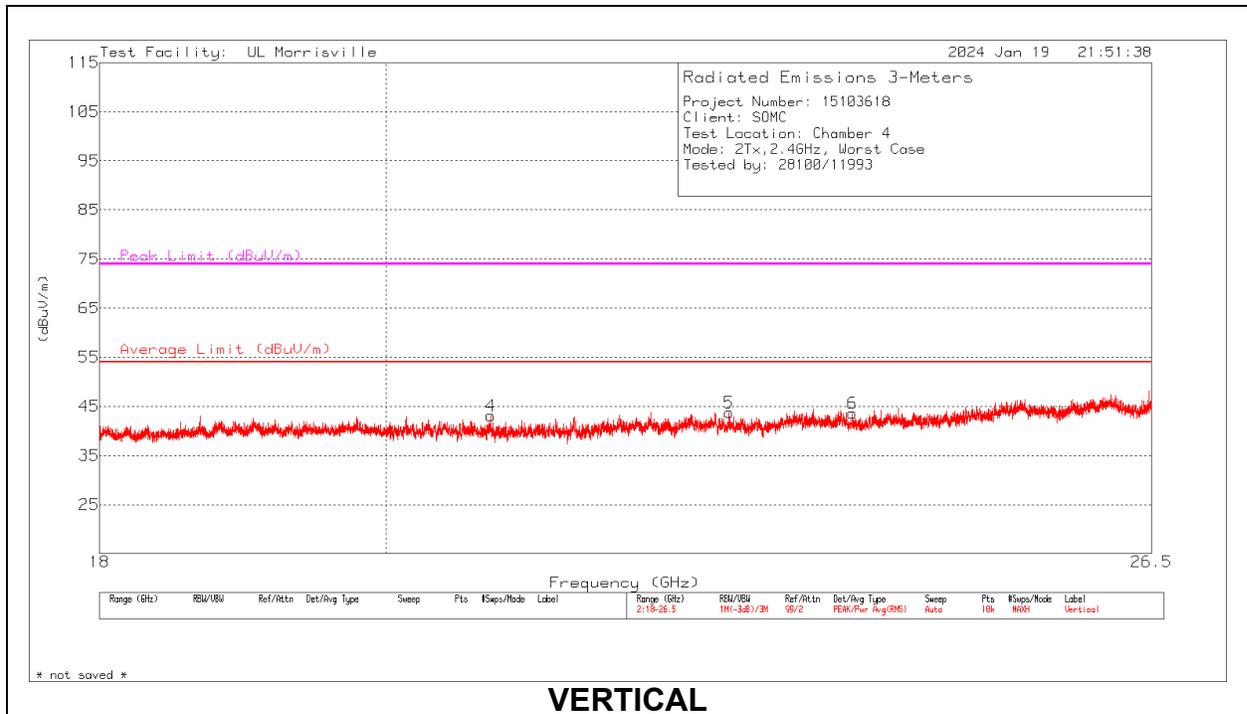
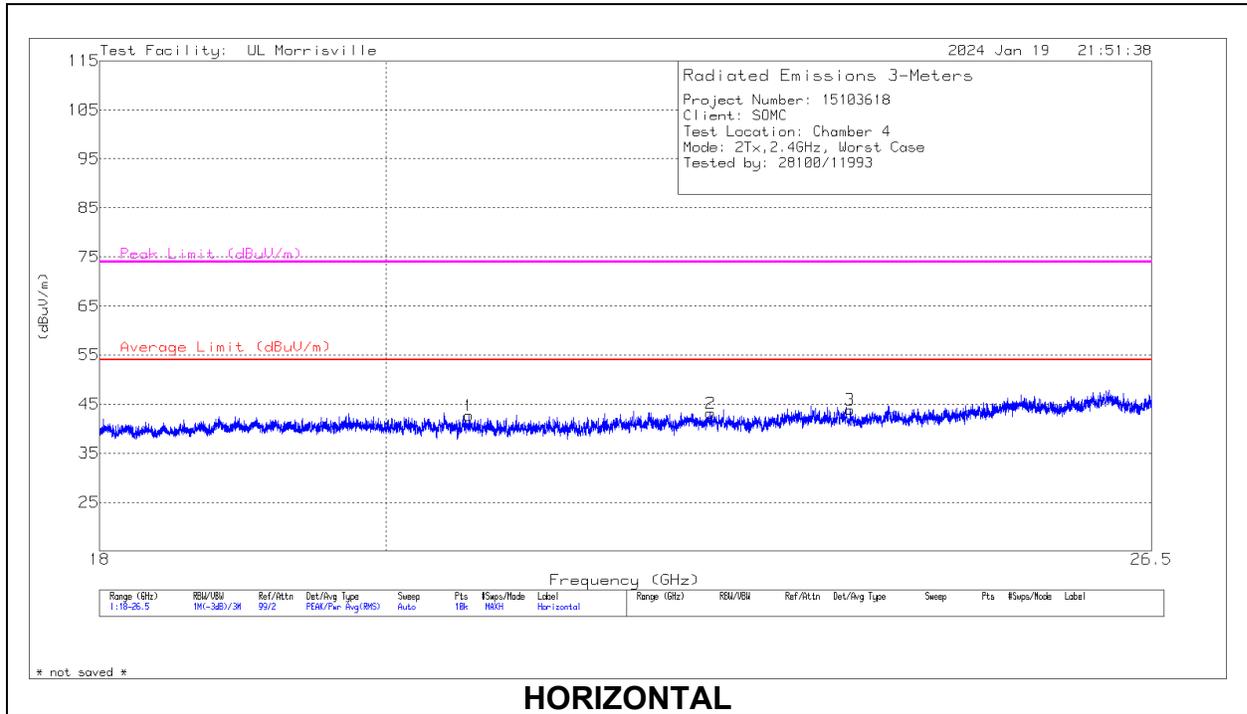
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.4. WORST CASE 18-26 GHZ

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



18 – 26GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 20.61604	48.82	Pk	33.7	-39.8	42.72	54	-11.28	74	-31.28	0-360	150	H
2	* ** 22.53175	47.76	Pk	34.2	-38.8	43.16	54	-10.84	74	-30.84	0-360	150	H
3	* ** 23.71908	46.35	Pk	34.5	-37	43.85	54	-10.15	74	-30.15	0-360	150	H
4	* ** 20.78432	49.39	Pk	33.4	-39.7	43.09	54	-10.91	74	-30.91	0-360	200	V
5	* ** 22.68728	48.31	Pk	34.1	-38.7	43.71	54	-10.29	74	-30.29	0-360	250	V
6	* ** 23.73778	45.72	Pk	34.5	-36.6	43.62	54	-10.38	74	-30.38	0-360	300	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

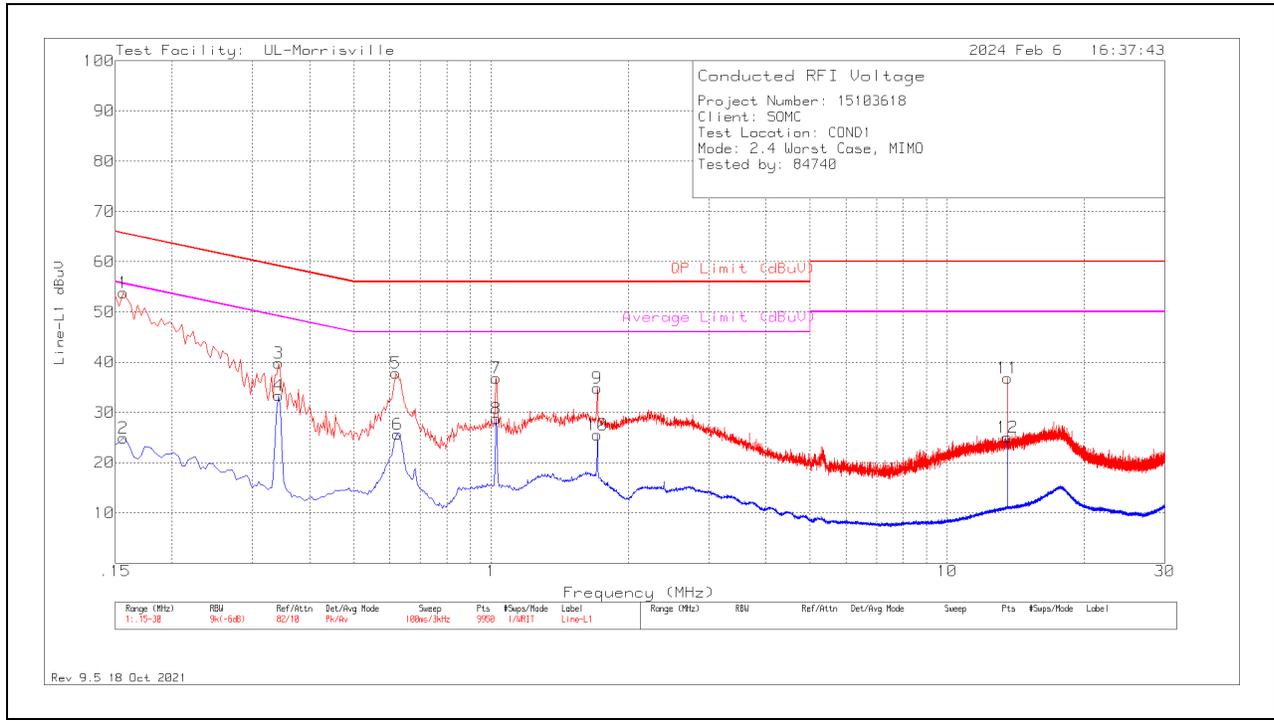
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1.1. AC Power Line Norm

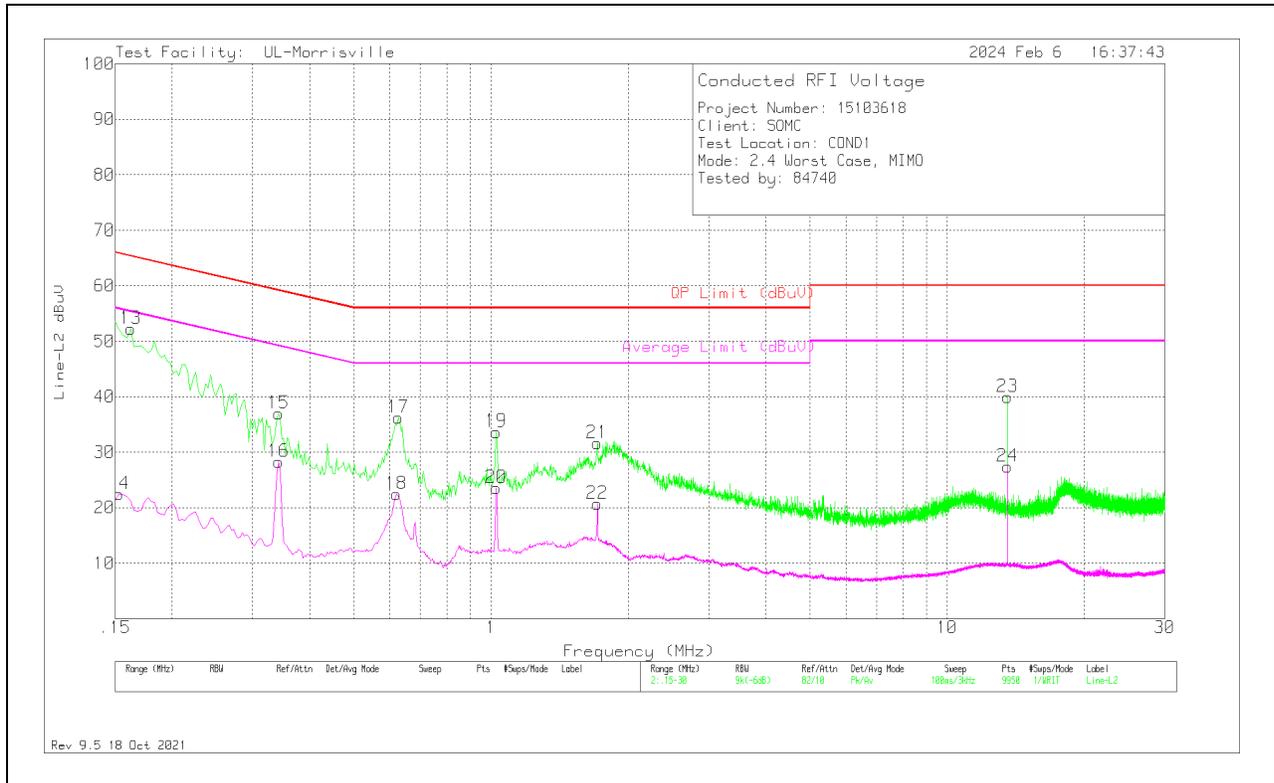
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.156	43.73	Pk	.3	9.8	53.83	65.67	-11.84	-	-
2	.156	14.83	Av	.3	9.8	24.93	-	-	55.67	-30.74
3	.342	29.91	Pk	.1	9.8	39.81	59.15	-19.34	-	-
4	.342	23.46	Av	.1	9.8	33.36	-	-	49.15	-15.79
5	.618	27.94	Pk	.1	9.8	37.84	56	-18.16	-	-
6	.624	15.77	Av	.1	9.8	25.67	-	-	46	-20.33
7	1.026	26.91	Pk	.1	9.8	36.81	56	-19.19	-	-
8	1.026	18.82	Av	.1	9.8	28.72	-	-	46	-17.28
9	1.71	24.96	Pk	.1	9.8	34.86	56	-21.14	-	-
10	1.71	15.61	Av	.1	9.8	25.51	-	-	46	-20.49
11	13.56	26.66	Pk	.2	10	36.86	60	-23.14	-	-
12	13.56	14.86	Av	.2	10	25.06	-	-	50	-24.94

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.162	42.15	Pk	.3	9.8	52.25	65.36	-13.11	-	-
14	.153	12.39	Av	.3	9.8	22.49	-	-	55.84	-33.35
15	.342	27.07	Pk	.1	9.8	36.97	59.15	-22.18	-	-
16	.342	18.38	Av	.1	9.8	28.28	-	-	49.15	-20.87
17	.627	26.37	Pk	.1	9.8	36.27	56	-19.73	-	-
18	.621	12.5	Av	.1	9.8	22.4	-	-	46	-23.6
19	1.026	23.77	Pk	.1	9.8	33.67	56	-22.33	-	-
20	1.026	13.64	Av	.1	9.8	23.54	-	-	46	-22.46
21	1.71	21.71	Pk	.1	9.8	31.61	56	-24.39	-	-
22	1.71	10.79	Av	.1	9.8	20.69	-	-	46	-25.31
23	13.563	29.71	Pk	.2	10	39.91	60	-20.09	-	-
24	13.56	17.2	Av	.2	10	27.4	-	-	50	-22.6

Pk - Peak detector
 Av - Average detection

12. SETUP PHOTOS

Please refer to R15103618-EP3 for setup photos

END OF TEST REPORT