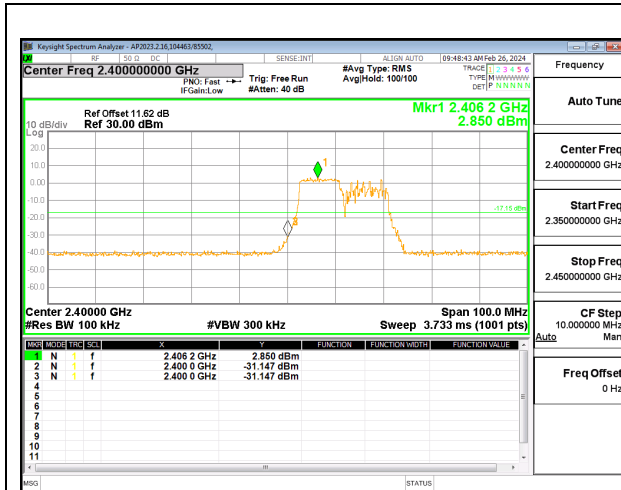
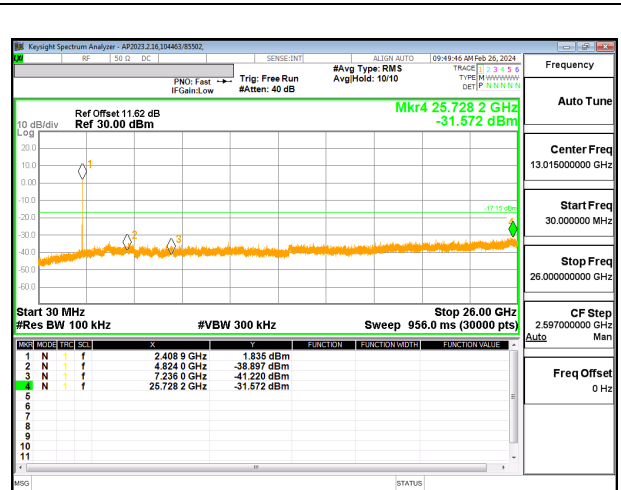


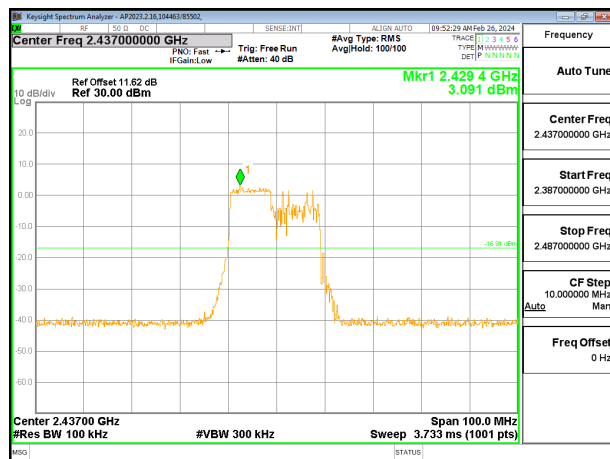
2TX CHAIN 0 + CHAIN 1 CDD MODE: 106T



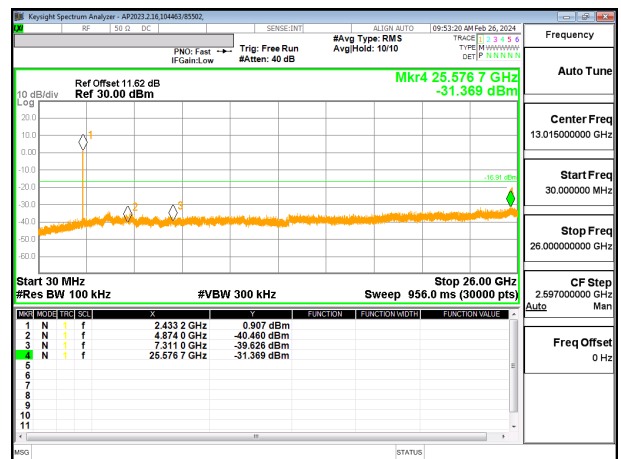
LOW CHANNEL 1 BANDEDGE CHAIN 0



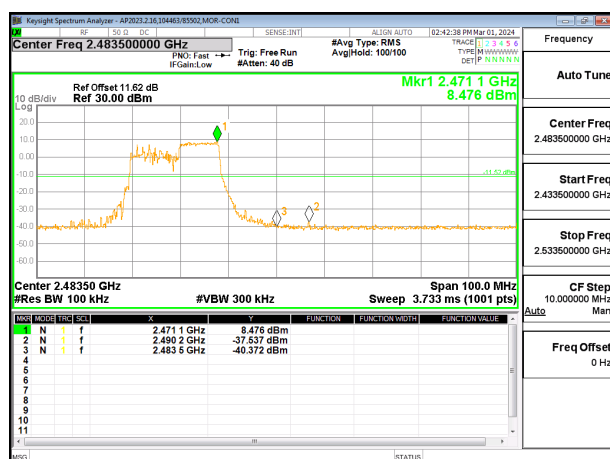
OUT-OF-BAND LOW CHANNEL 1 CHAIN 0



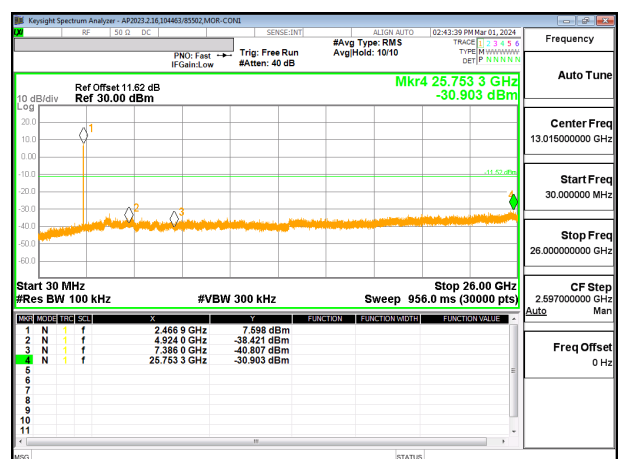
IN-BAND REFERENCE LEVEL CHAIN 0



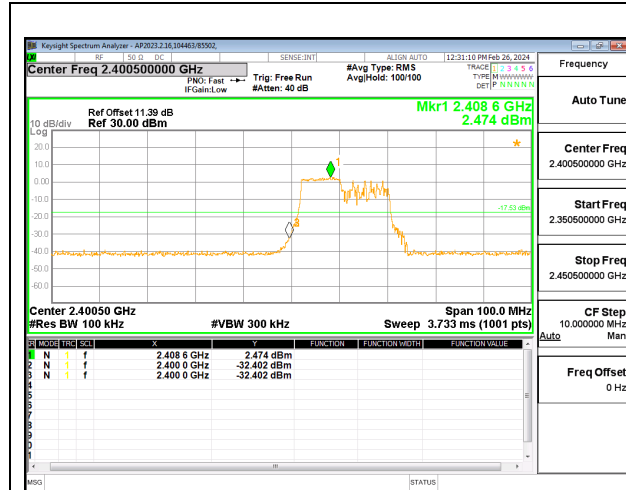
OUT-OF-BAND MID CHANNEL CHAIN 0



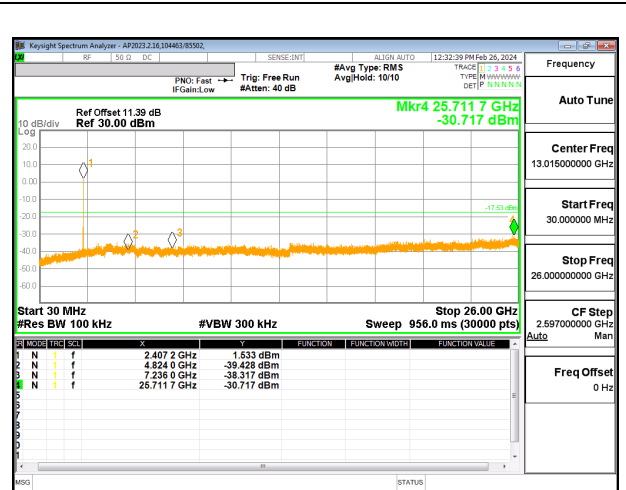
HIGH CHANNEL 11 BANDEDGE CHAIN 0



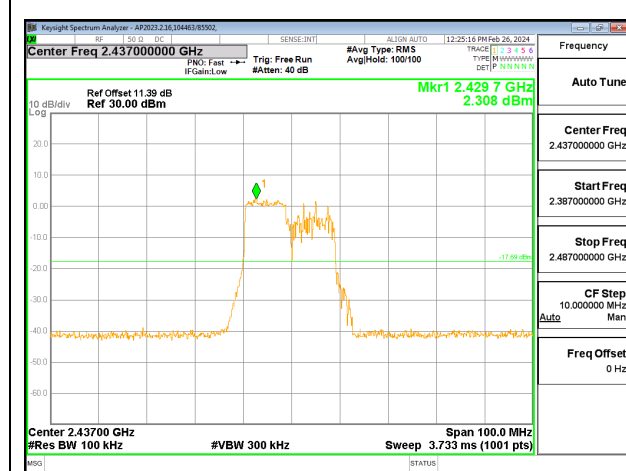
OUT-OF-BAND HIGH CHANNEL 11 CHAIN 0



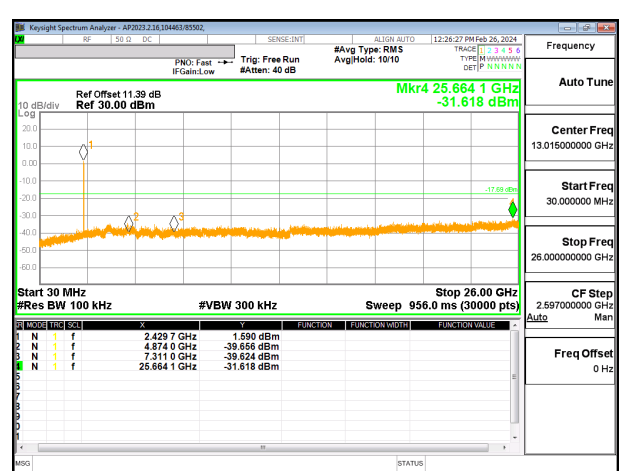
LOW CHANNEL 1 BANDEDGE CHAIN 1



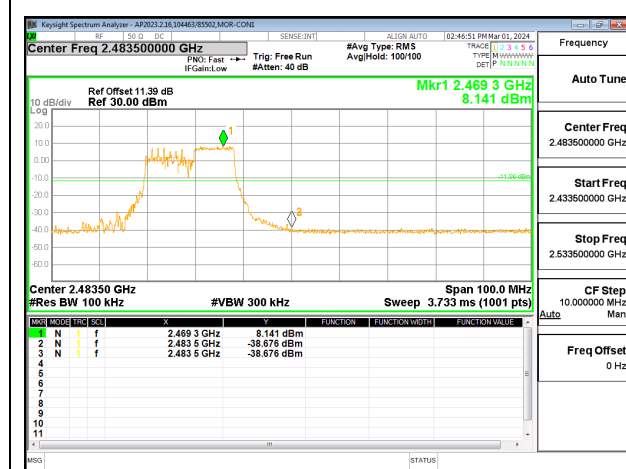
OUT-OF-BAND LOW CHANNEL 1 CHAIN 1



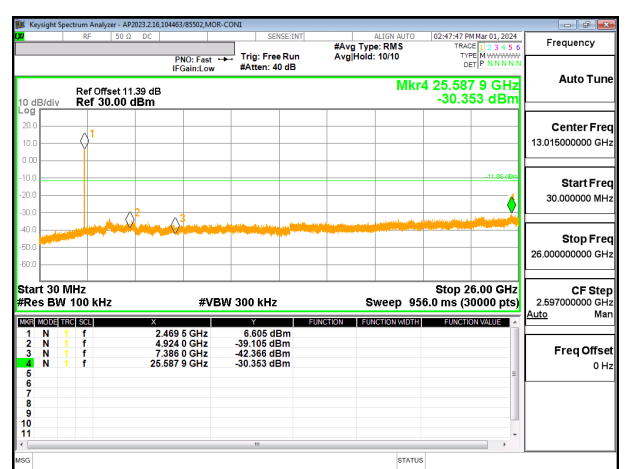
IN-BAND REFERENCE LEVEL CHAIN 1



OUT-OF-BAND MID CHANNEL CHAIN 1

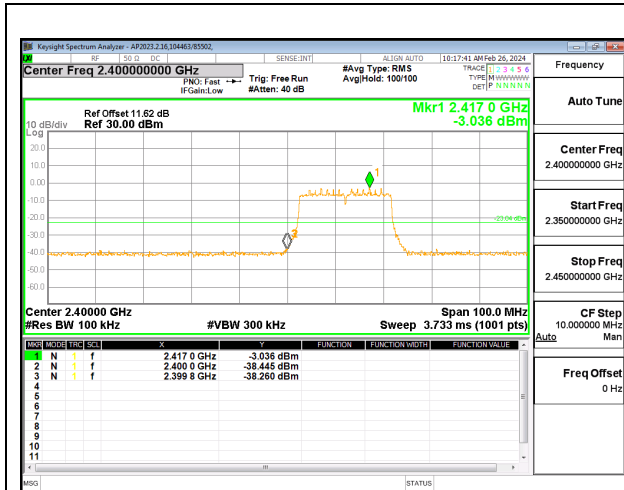


HIGH CHANNEL 11 BANDEDGE CHAIN 1

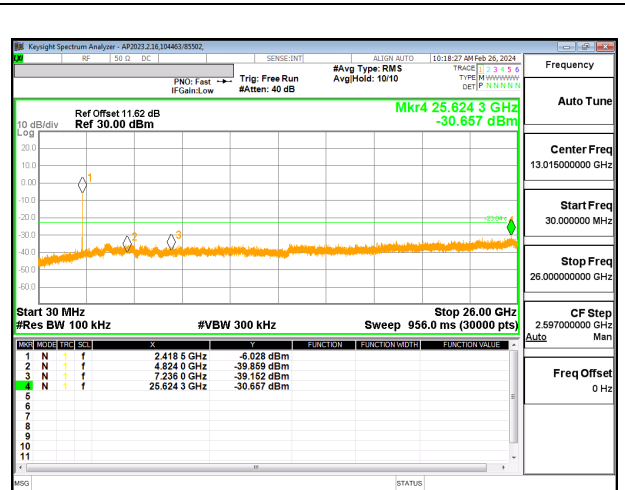


OUT-OF-BAND HIGH CHANNEL 11 CHAIN 1

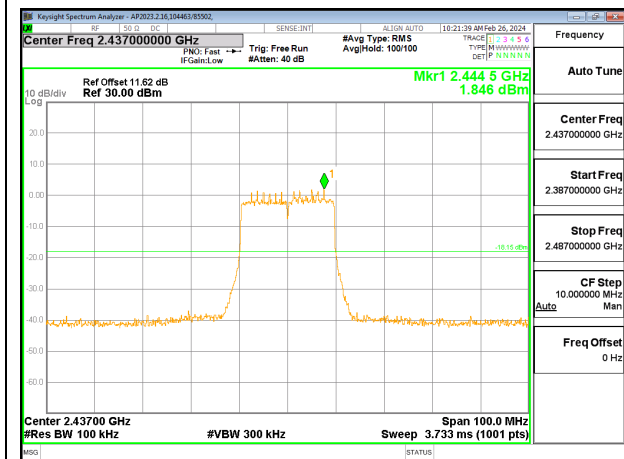
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 242T



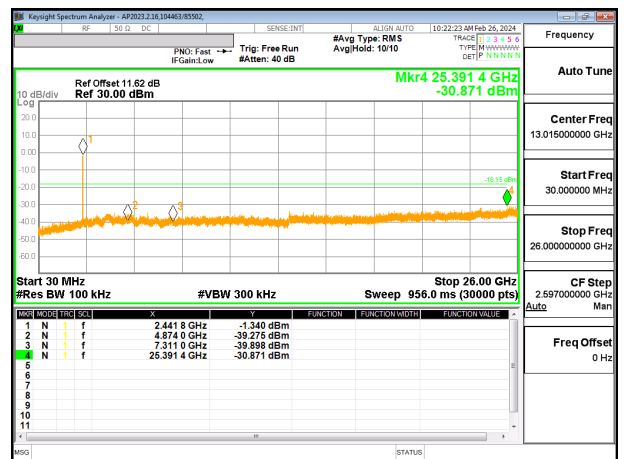
LOW CHANNEL 1 BANDEDGE CHAIN 0



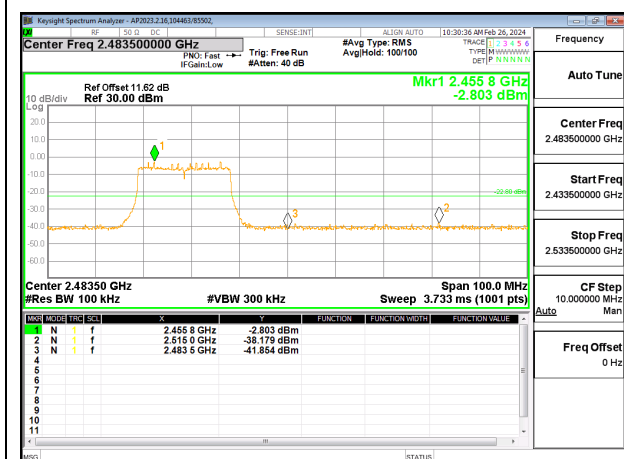
OUT-OF-BAND LOW CHANNEL 1 CHAIN 0



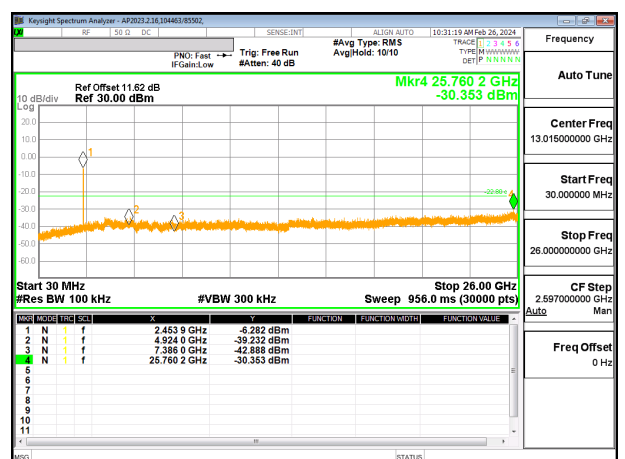
IN-BAND REFERENCE LEVEL CHAIN 0



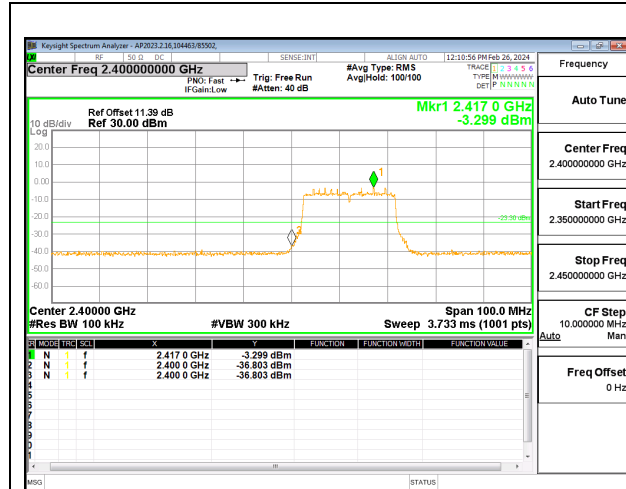
OUT-OF-BAND MID CHANNEL CHAIN 0



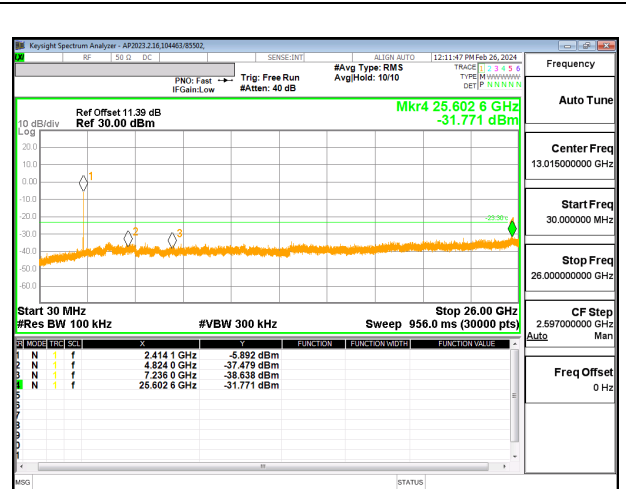
HIGH CHANNEL 11 BANDEDGE CHAIN 0



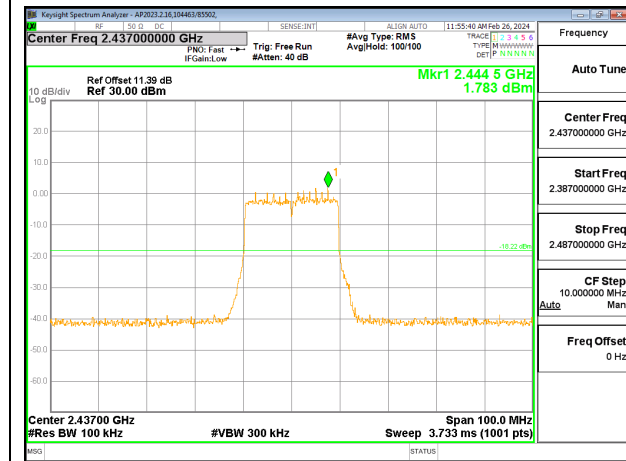
OUT-OF-BAND HIGH CHANNEL 11 CHAIN 0



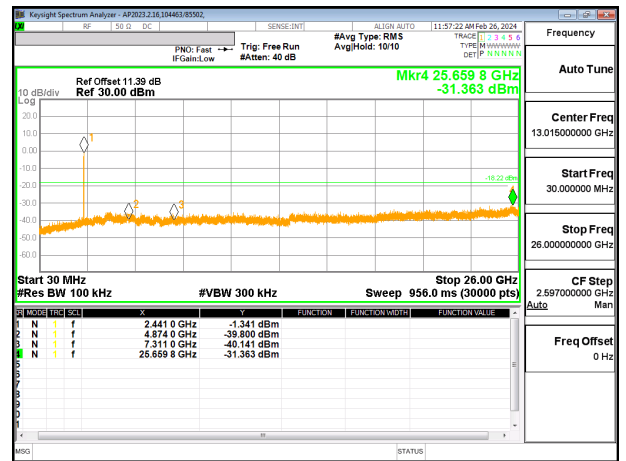
LOW CHANNEL 1 BANDEDGE CHAIN 1



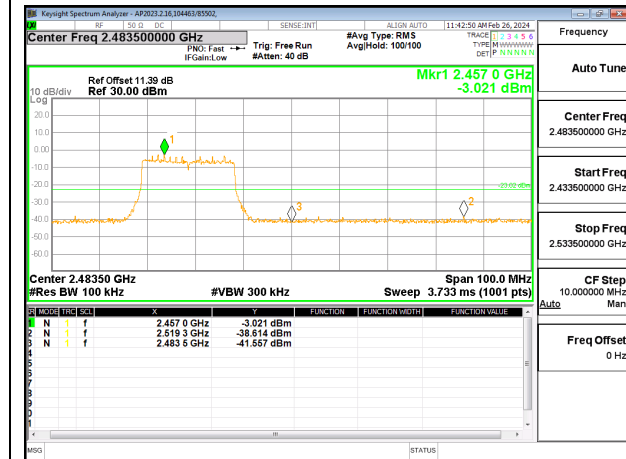
OUT-OF-BAND LOW CHANNEL 1 CHAIN 1



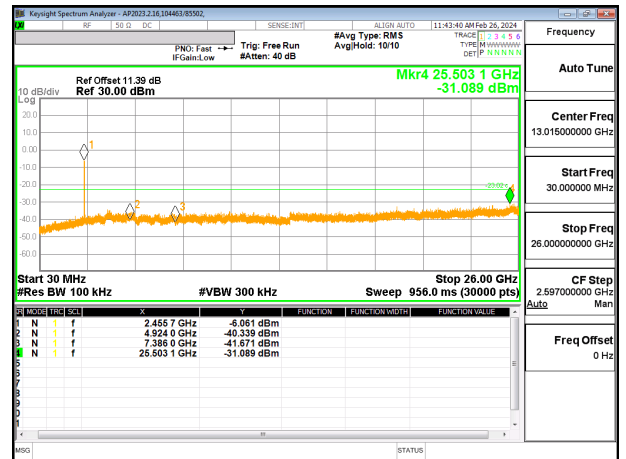
IN-BAND REFERENCE LEVEL CHAIN 1



OUT-OF-BAND MID CHANNEL 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 linear voltage averaging 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 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.

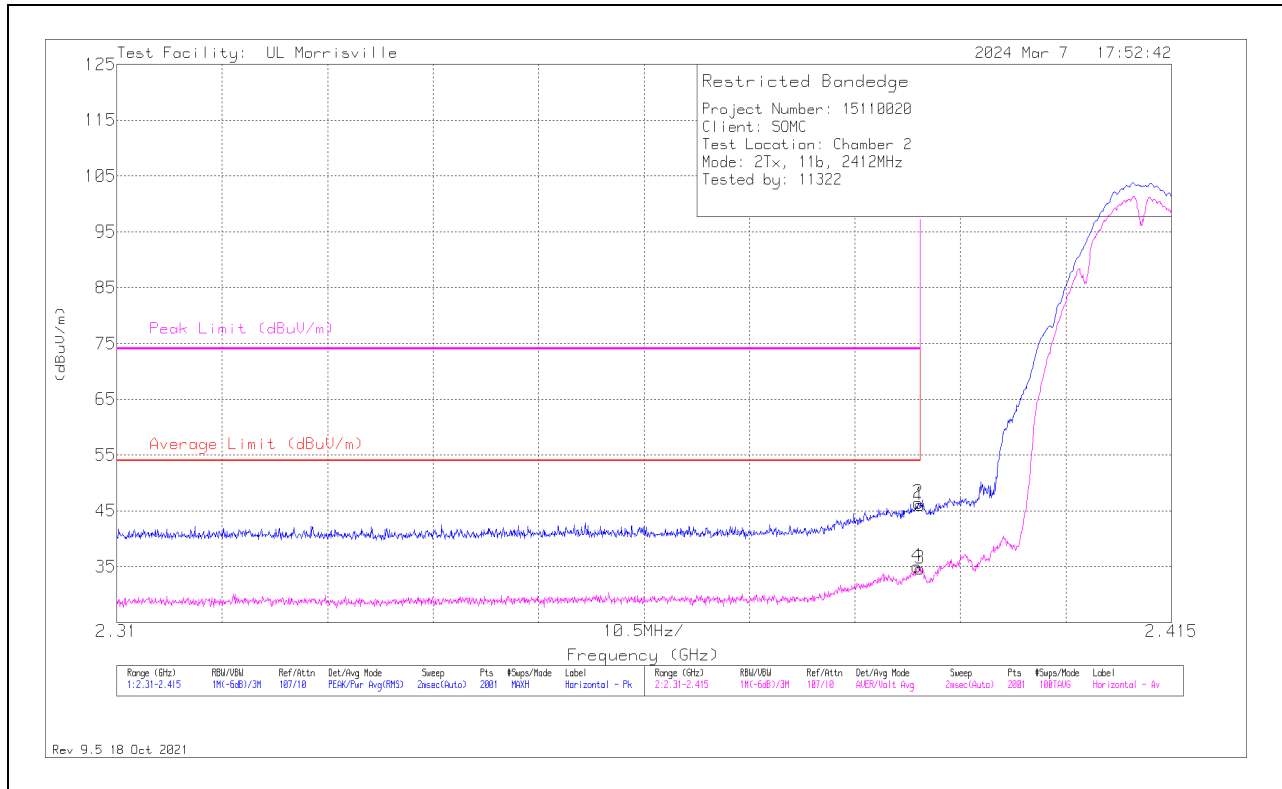
10.1. TRANSMITTER ABOVE 1 GHz

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

2TX Chain 0 + Chain 1 CDD 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	37.92	Pk	32.3	-24.2	46.02	-	-	74	-27.98	171	173	H
2	* ** 2.3898	38.37	Pk	32.3	-24.2	46.47	-	-	74	-27.53	171	173	H
3	* ** 2.38996	26.57	ADV	32.3	-24.2	34.67	54	-19.33	-	-	171	173	H
4	* ** 2.38964	26.94	ADV	32.3	-24.2	35.04	54	-18.96	-	-	171	173	H

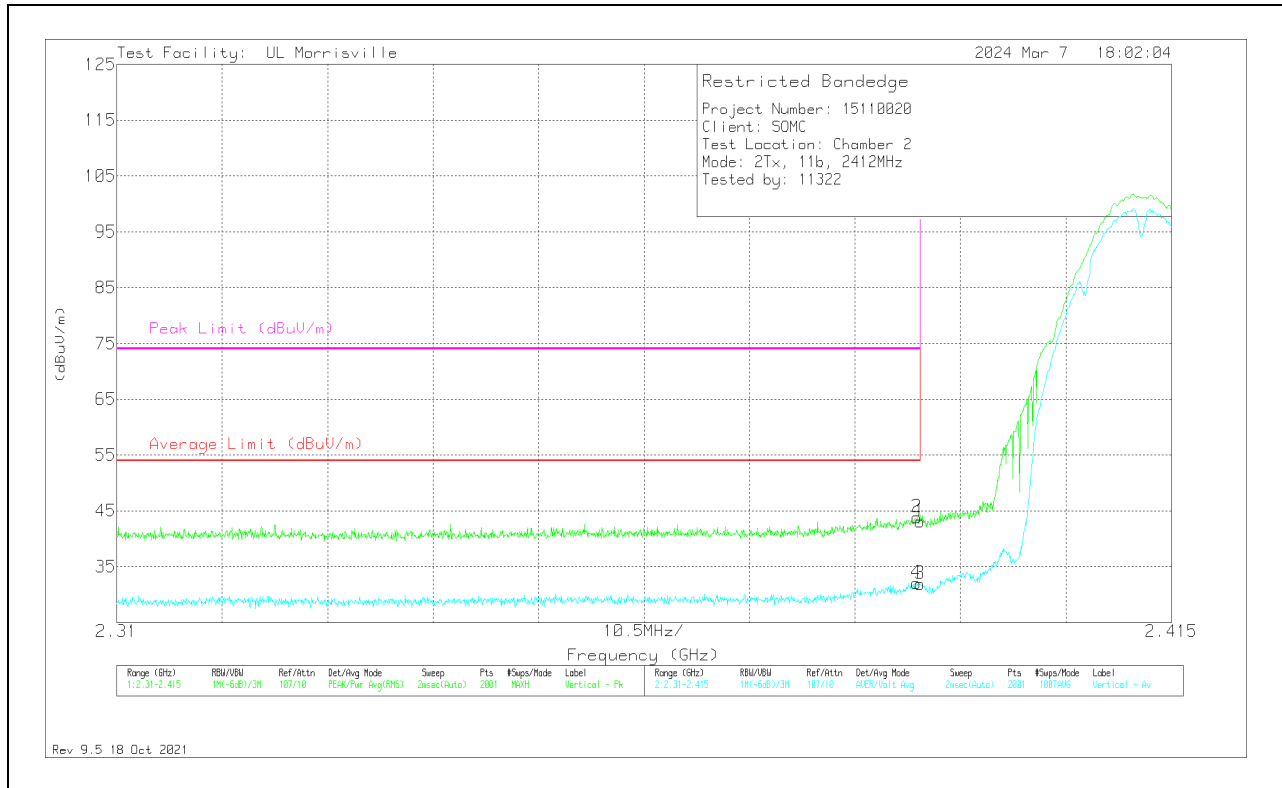
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	34.98	Pk	32.3	-24.2	43.08	-	-	74	-30.92	235	365	V
2	** 2.38964	35.69	Pk	32.3	-24.2	43.79	-	-	74	-30.21	235	365	V
3	*** 2.38996	23.84	ADV	32.3	-24.2	31.94	54	-22.06	-	-	235	365	V
4	** 2.38959	23.99	ADV	32.3	-24.2	32.09	54	-21.91	-	-	235	365	V

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

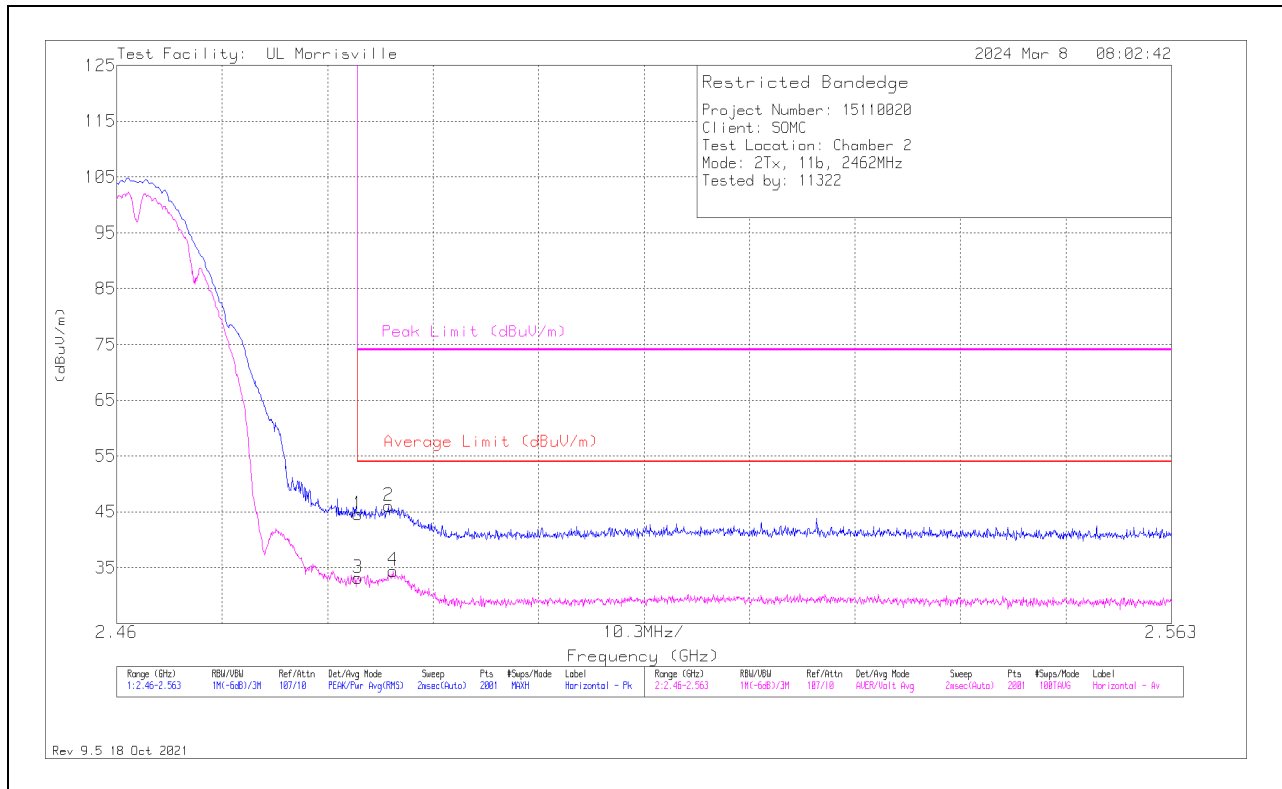
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

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	36.62	Pk	32.5	-24.5	44.62	-	-	74	-29.38	167	141	H
2	* ** 2.48657	38.12	Pk	32.5	-24.6	46.02	-	-	74	-27.98	167	141	H
3	* ** 2.48354	25.14	ADV	32.5	-24.5	33.14	54	-20.86	-	-	167	141	H
4	* ** 2.48699	26.56	ADV	32.5	-24.6	34.46	54	-19.54	-	-	167	141	H

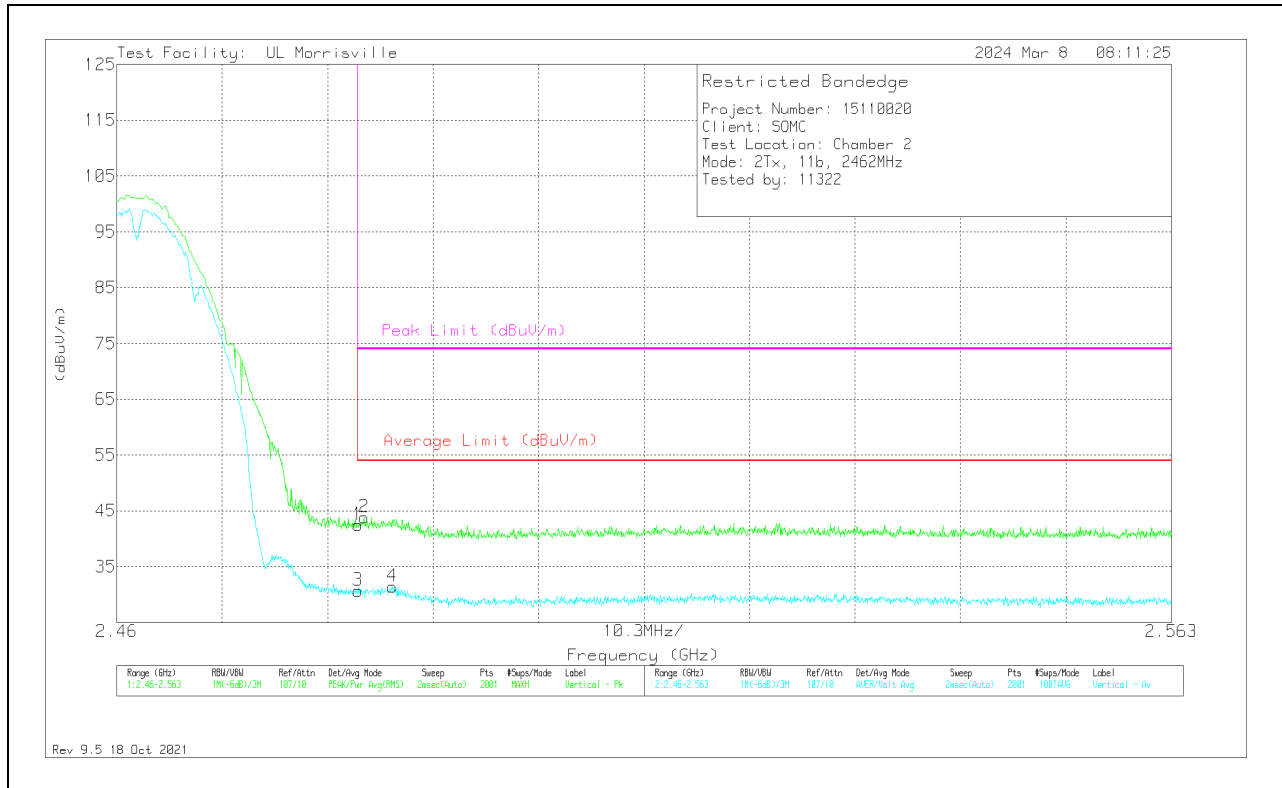
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

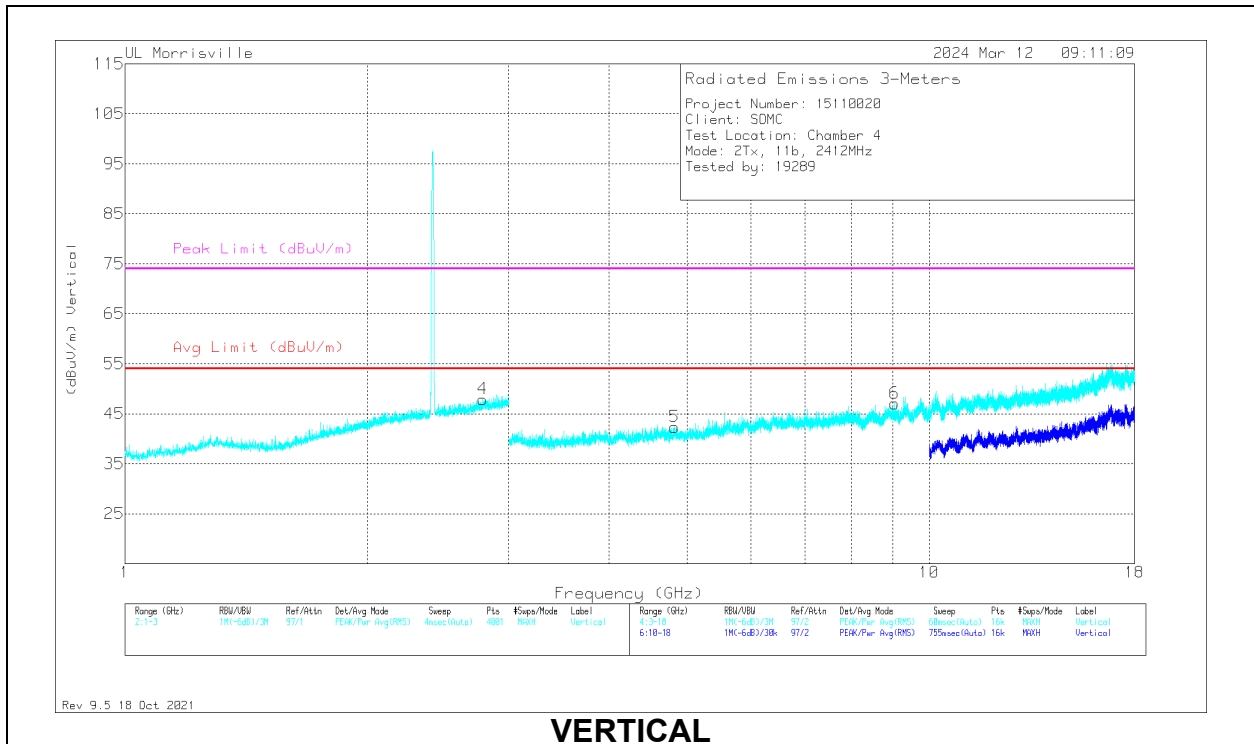
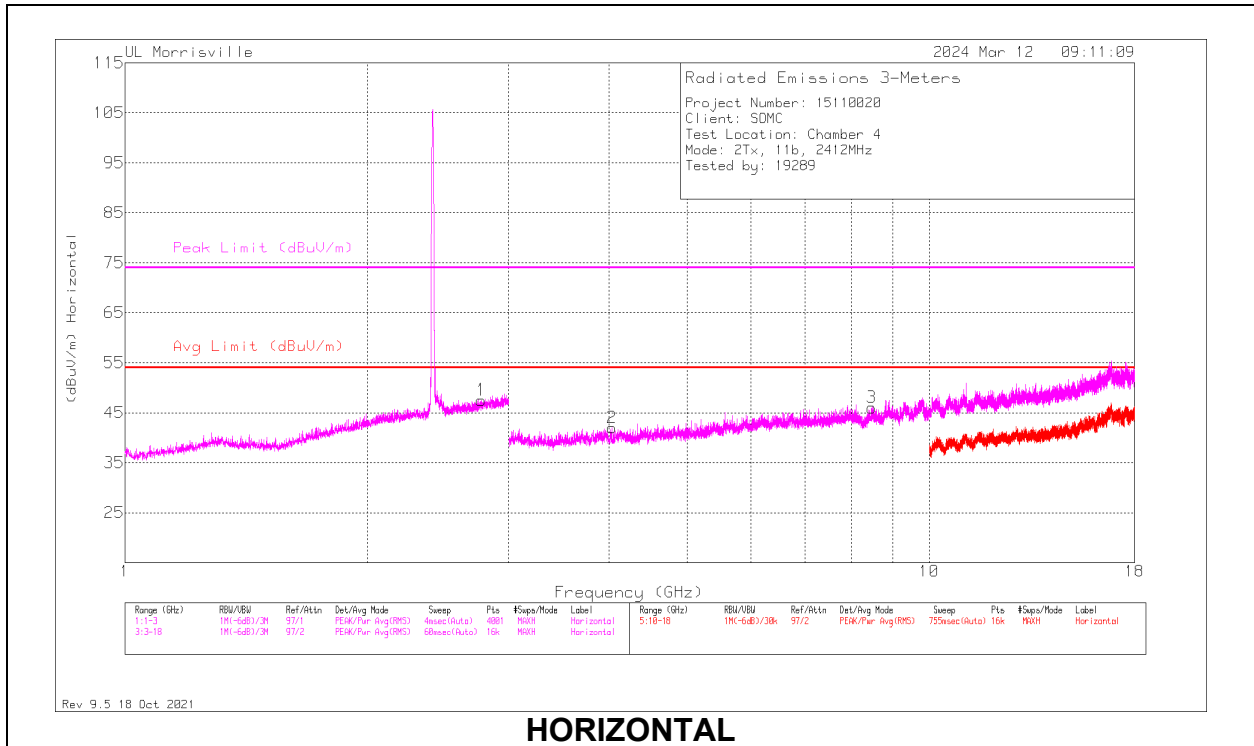


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	34.5	Pk	32.5	-24.5	42.5	-	-	74	-31.5	243	350	V
2	*** 2.48415	35.85	Pk	32.5	-24.5	43.85	-	-	74	-30.15	243	350	V
3	*** 2.48354	22.69	ADV	32.5	-24.5	30.69	54	-23.31	-	-	243	350	V
4	*** 2.48693	23.52	ADV	32.5	-24.6	31.42	54	-22.58	-	-	243	350	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

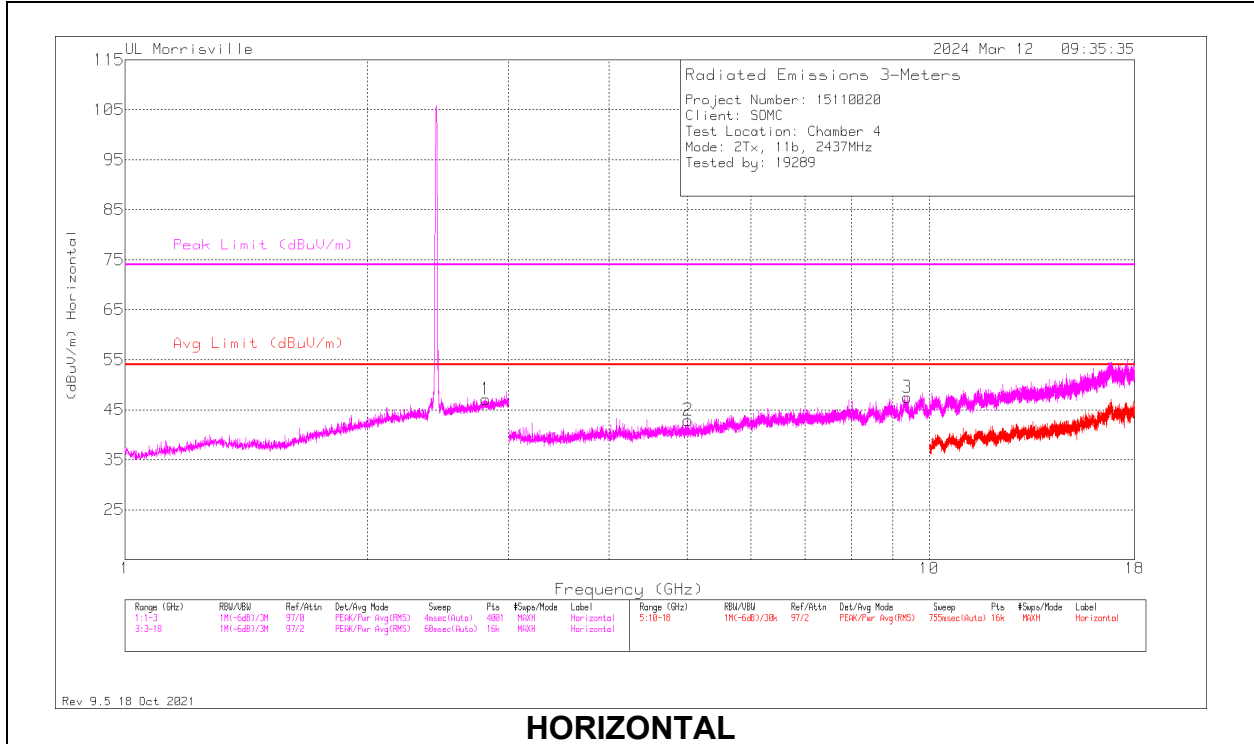
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.7725	27.48	Pk	32.5	-12.5	47.48	54	-6.52	74	-26.52	0-360	100	H
4	*** 2.7835	27.81	Pk	32.6	-12.5	47.91	54	-6.09	74	-26.09	0-360	200	V
2	*** 4.03125	41.28	Pk	33.3	-32.6	41.98	54	-12.02	74	-32.02	0-360	100	H
3	*** 8.47875	36.32	Pk	35.8	-26.1	46.02	54	-7.98	74	-27.98	0-360	100	H
5	*** 4.82063	39.83	Pk	34.1	-31.6	42.33	54	-11.67	74	-31.67	0-360	200	V
6	*** 9.05438	35.36	Pk	36.2	-24.5	47.06	54	-6.94	74	-26.94	0-360	200	V

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

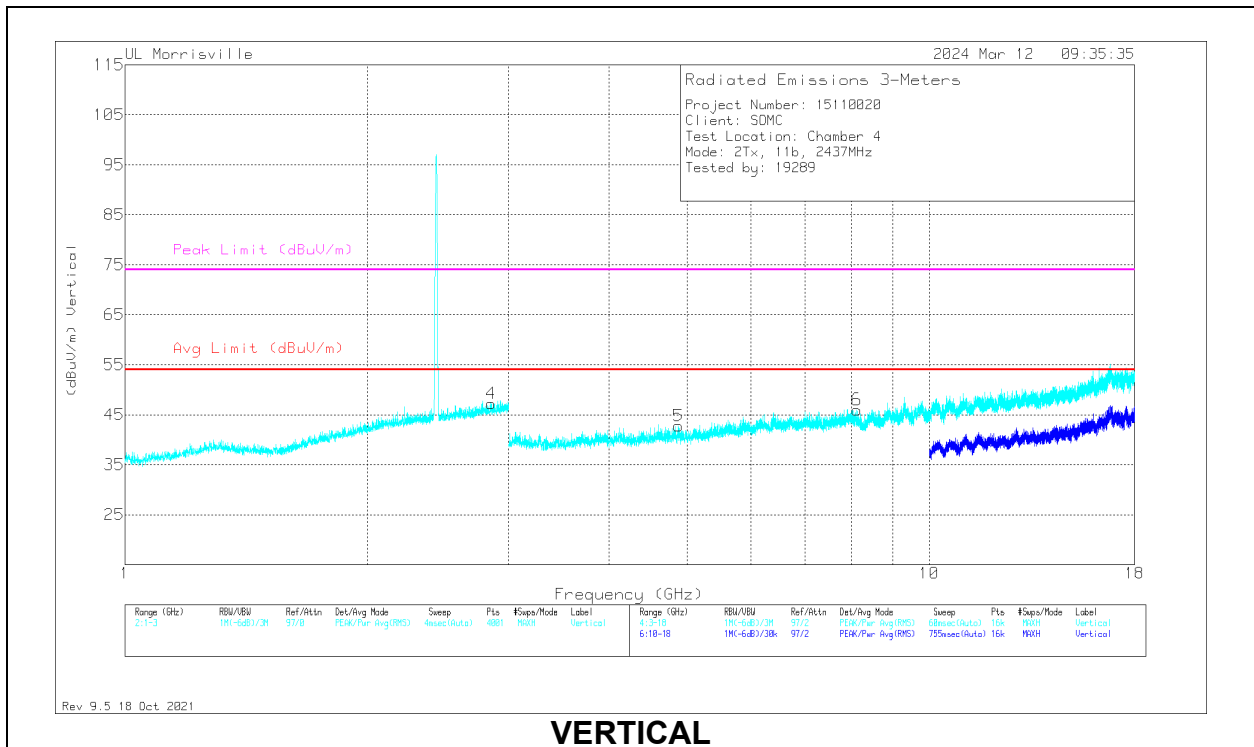
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

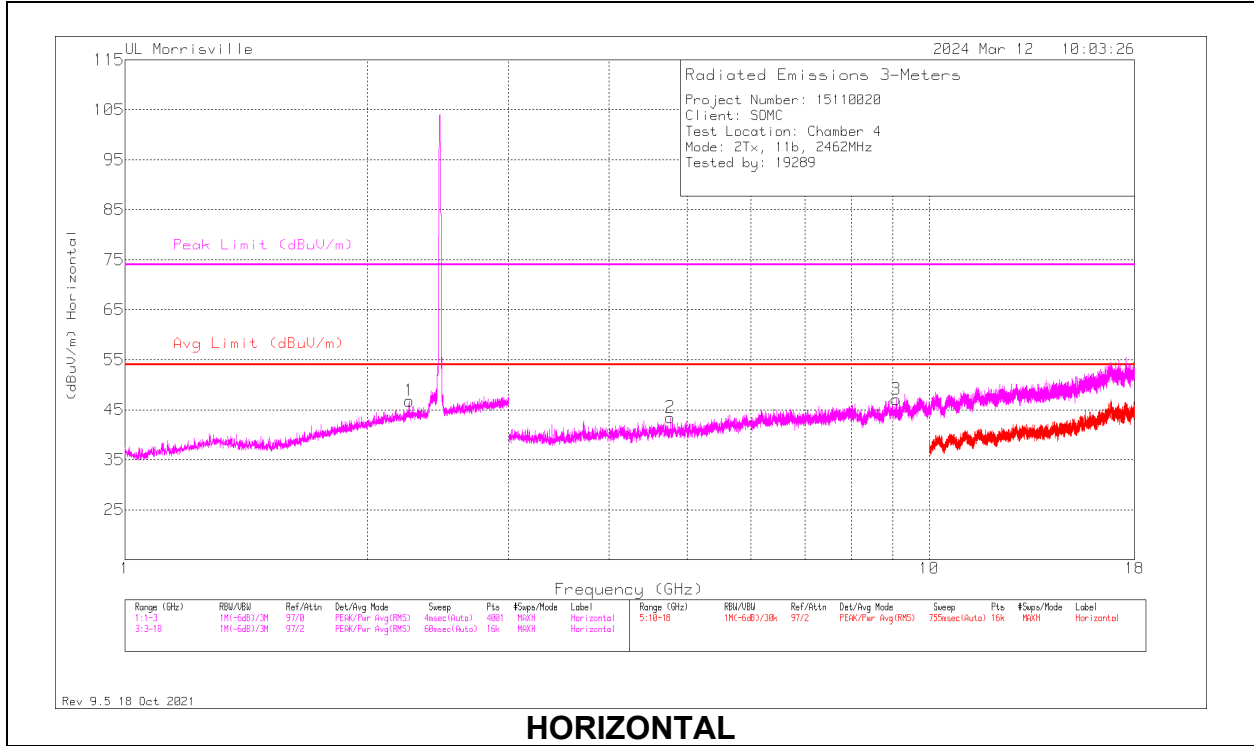
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.809	27.12	Pk	32.5	-12.5	47.12	54	-6.88	74	-26.88	0-360	100	H
4	* ** 2.853	27.09	Pk	32.4	-12.3	47.19	54	-6.81	74	-26.81	0-360	200	V
2	* ** 5.01188	40.62	Pk	34.1	-31.8	42.92	54	-11.08	74	-31.08	0-360	100	H
3	* ** 9.3825	35.78	Pk	36.6	-24.9	47.48	54	-6.52	74	-26.52	0-360	100	H
5	* ** 4.87594	40.16	Pk	34	-31.4	42.76	54	-11.24	74	-31.24	0-360	200	V
6	* ** 8.13	37.46	Pk	35.8	-27.3	45.96	54	-8.04	74	-28.04	0-360	200	V

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

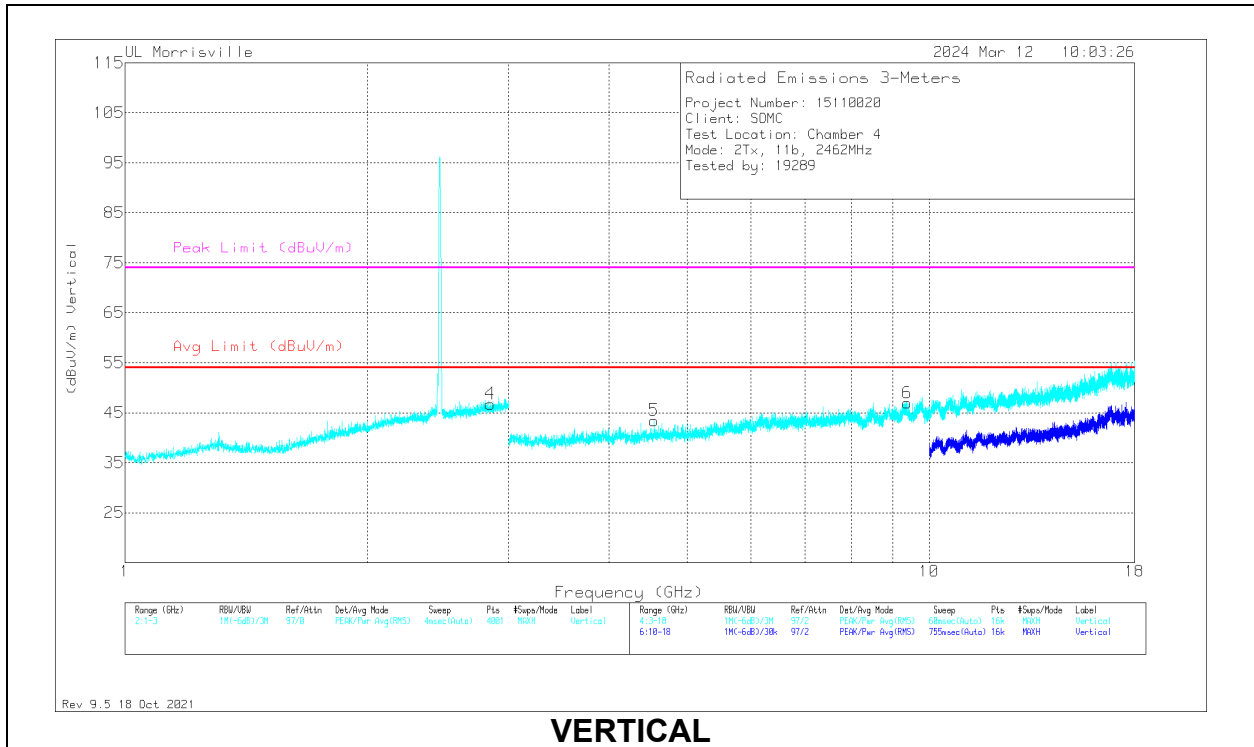
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	*** 2.258	28.18	Pk	31.9	-13.3	46.78	54	-7.22	74	-27.22	0-360	100	H
4	*** 2.8455	26.56	Pk	32.4	-12.2	46.76	54	-7.24	74	-27.24	0-360	200	V
2	*** 4.76156	40.95	Pk	34	-31.5	43.45	54	-10.55	74	-30.55	0-360	100	H
3	*** 9.09375	35.48	Pk	36.3	-24.7	47.08	54	-6.92	74	-26.92	0-360	100	H
5	*** 4.55063	41.13	Pk	33.9	-31.6	43.43	54	-10.57	74	-30.57	0-360	200	V
6	*** 9.38531	35.47	Pk	36.6	-25.1	46.97	54	-7.03	74	-27.03	0-360	200	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

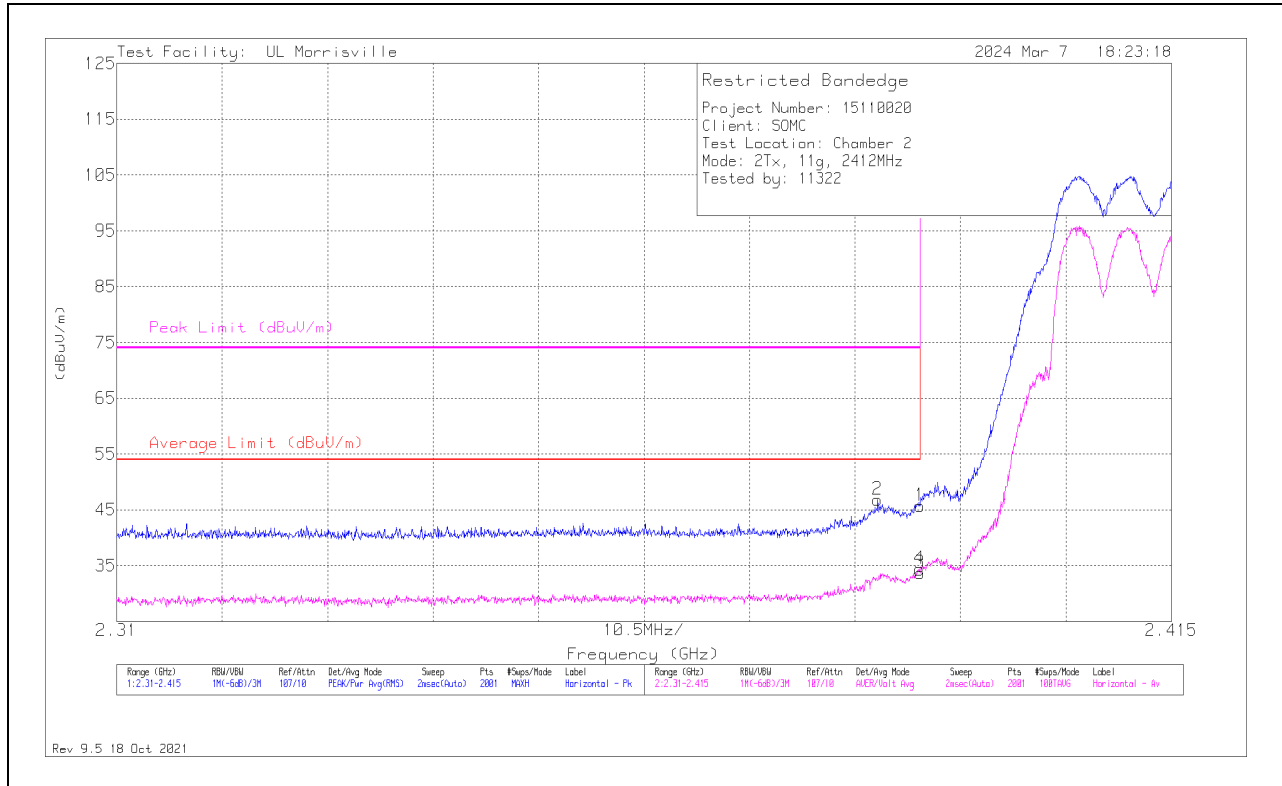
Pk - Peak detector

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

2TX Chain 0 + Chain 1 CDD 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	37.61	Pk	32.3	-24.2	45.71	-	-	74	-28.29	200	326	H
2	*** 2.38576	38.83	Pk	32.2	-24.2	46.83	-	-	74	-27.17	200	326	H
3	*** 2.38996	25.57	ADV	32.3	-24.2	33.67	54	-20.33	-	-	200	326	H
4	*** 2.38991	26.24	ADV	32.3	-24.2	34.34	54	-19.66	-	-	200	326	H

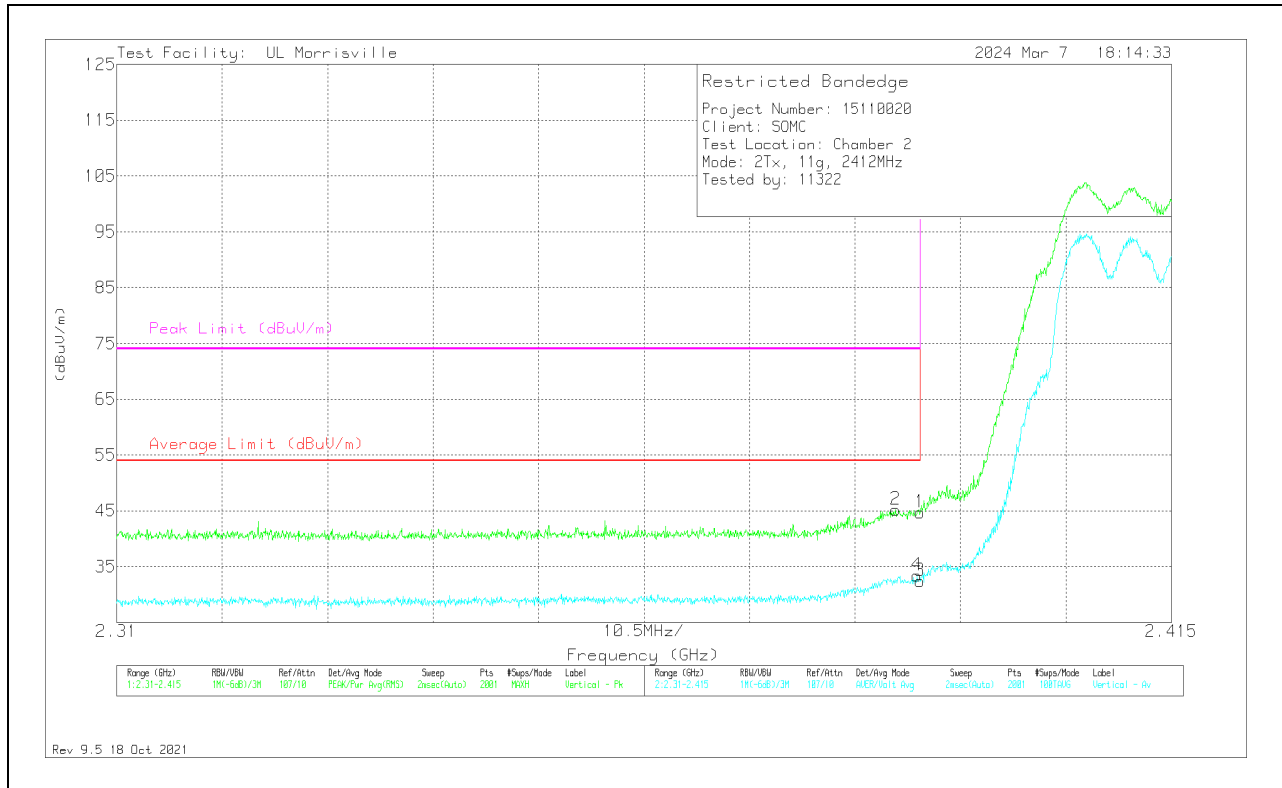
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

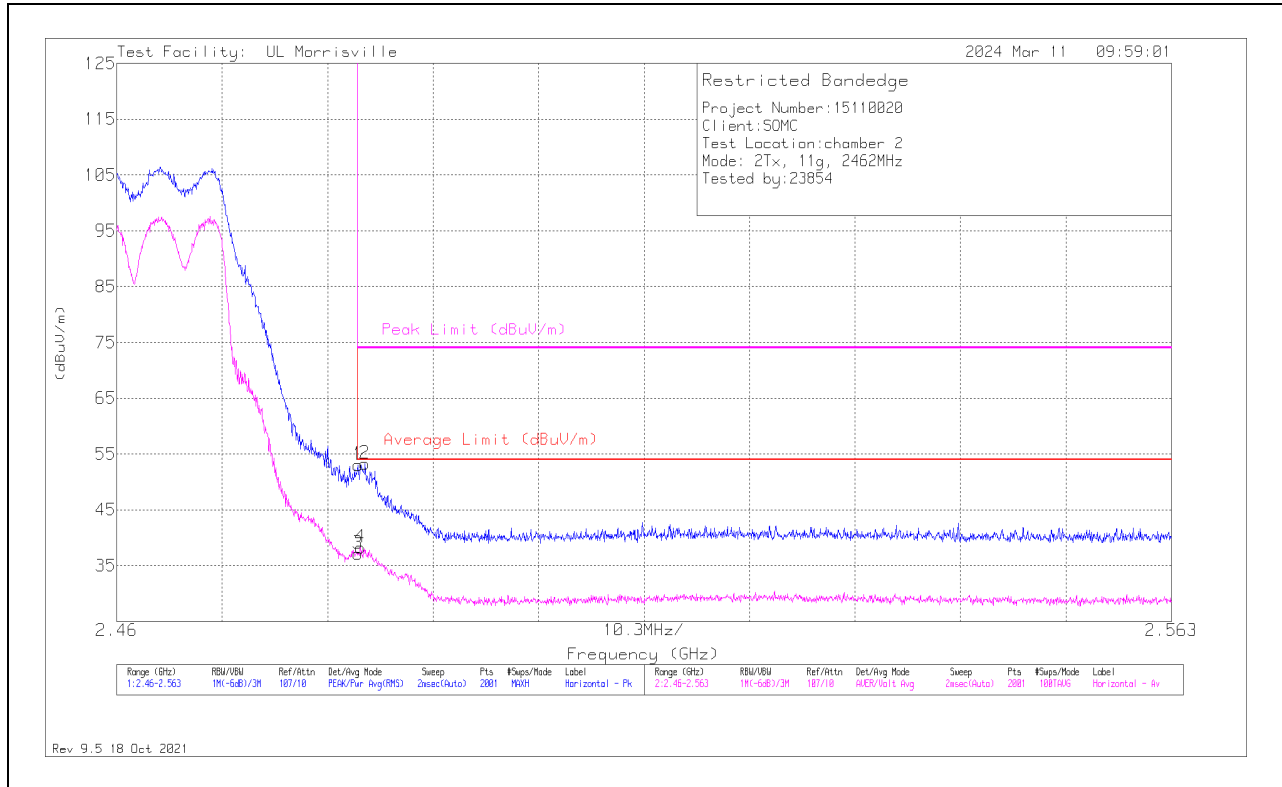


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	36.66	Pk	32.3	-24.2	44.76	-	-	74	-29.24	222	372	V
2	*** 2.38754	37.08	Pk	32.3	-24.2	45.18	-	-	74	-28.82	222	372	V
3	*** 2.38996	24.29	ADV	32.3	-24.2	32.39	54	-21.61	-	-	222	372	V
4	*** 2.3897	25.28	ADV	32.3	-24.2	33.38	54	-20.62	-	-	222	372	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	45.08	Pk	32.5	-24.5	53.08	-	-	74	-20.92	149	134	H
2	* ** 2.48426	45.28	Pk	32.5	-24.5	53.28	-	-	74	-20.72	149	134	H
3	* ** 2.48354	29.16	ADV	32.5	-24.5	37.16	54	-16.84	-	-	149	133	H
4	* ** 2.48379	30.23	ADV	32.5	-24.5	38.23	54	-15.77	-	-	149	133	H

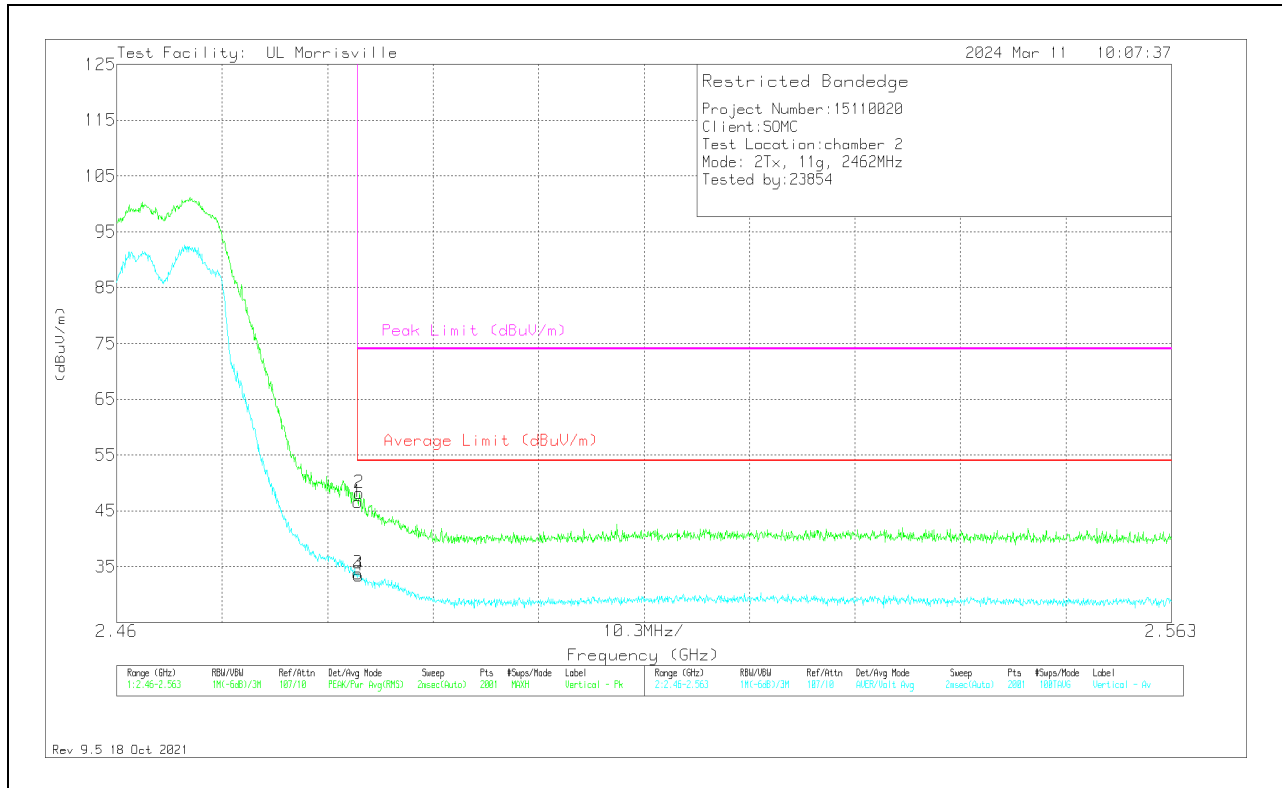
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	38.51	Pk	32.5	-24.5	46.51	-	-	74	-27.49	240	388	V
2	*** 2.48369	40.19	Pk	32.5	-24.5	48.19	-	-	74	-25.81	240	388	V
3	*** 2.48354	25.74	ADV	32.5	-24.5	33.74	54	-20.26	-	-	240	388	V
4	*** 2.48364	25.4	ADV	32.5	-24.5	33.4	54	-20.6	-	-	240	388	V

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

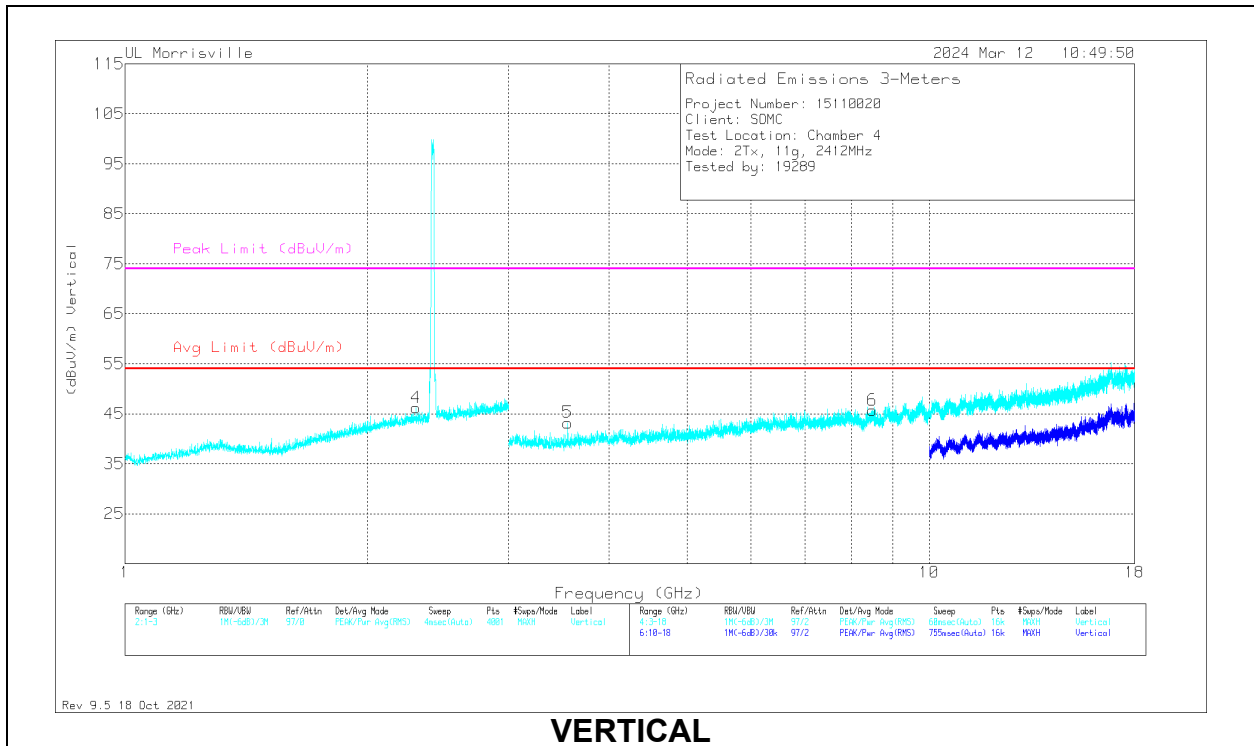
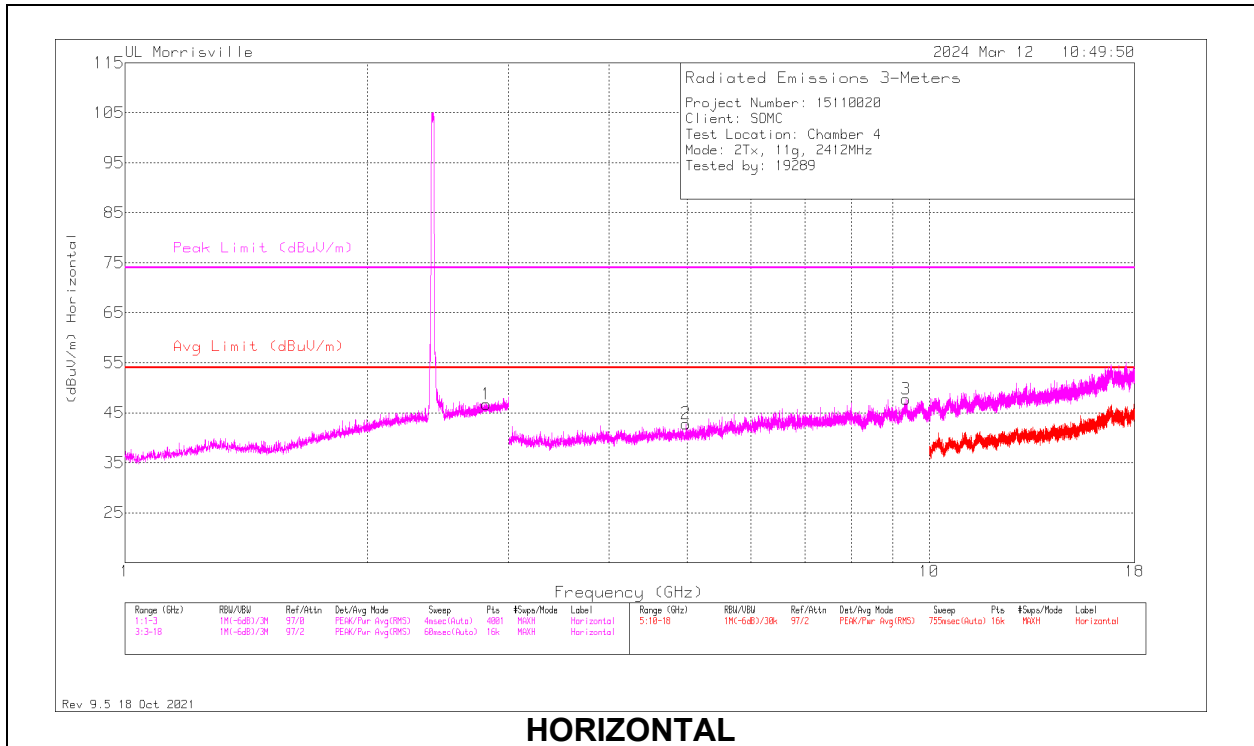
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

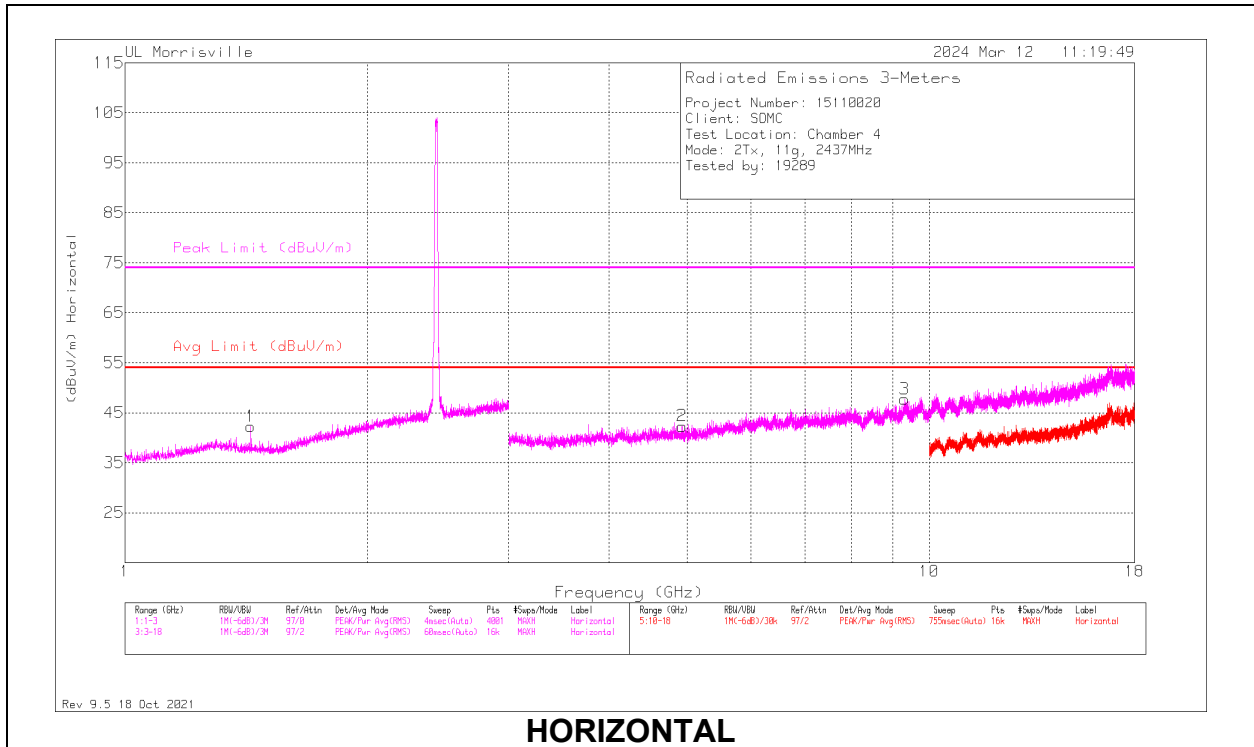
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.814	26.38	Pk	32.5	-12.2	46.68	54	-7.32	74	-27.32	0-360	100	H
4	*** 2.2995	27.49	Pk	32	-13.3	46.19	54	-7.81	74	-27.81	0-360	200	V
2	*** 4.98469	40.49	Pk	34	-31.7	42.79	54	-11.21	74	-31.21	0-360	100	H
3	*** 9.35438	36.12	Pk	36.5	-24.9	47.72	54	-6.28	74	-26.28	0-360	100	H
5	*** 3.55219	44	Pk	32.9	-33.7	43.2	54	-10.8	74	-30.8	0-360	200	V
6	*** 8.49375	35.98	Pk	35.8	-26.1	45.68	54	-8.32	74	-28.32	0-360	200	V

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

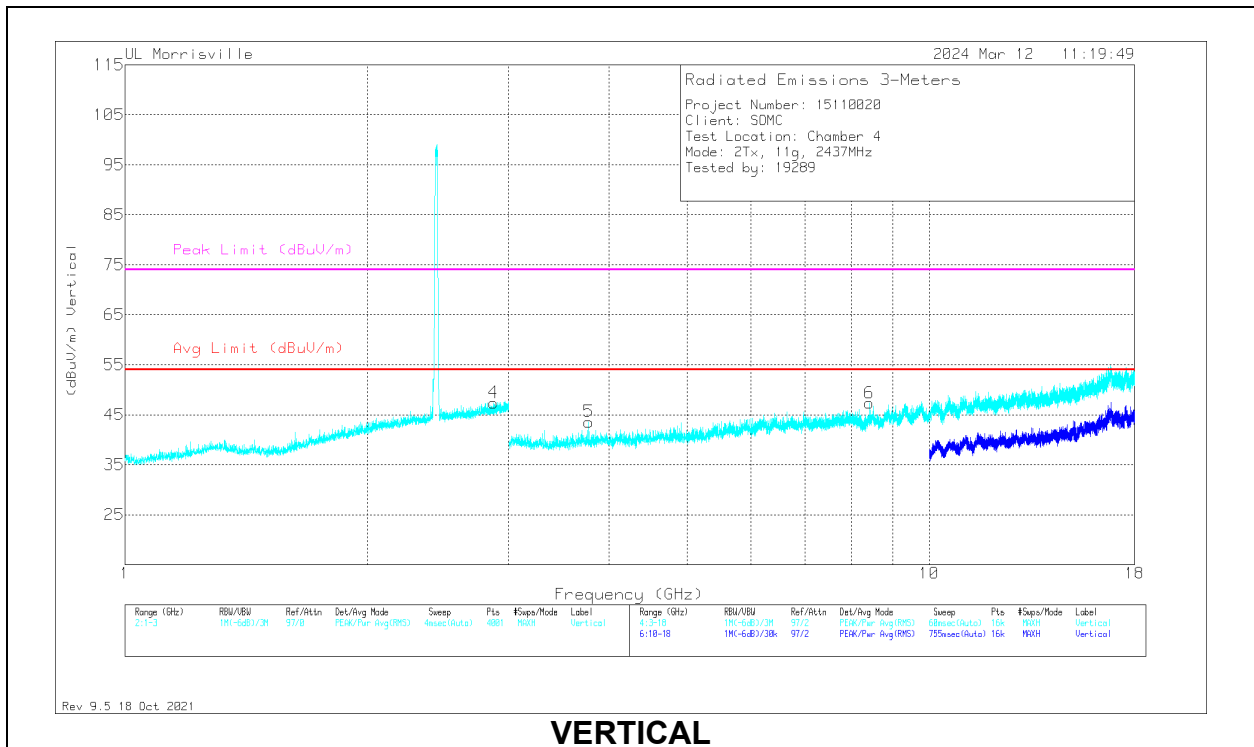
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

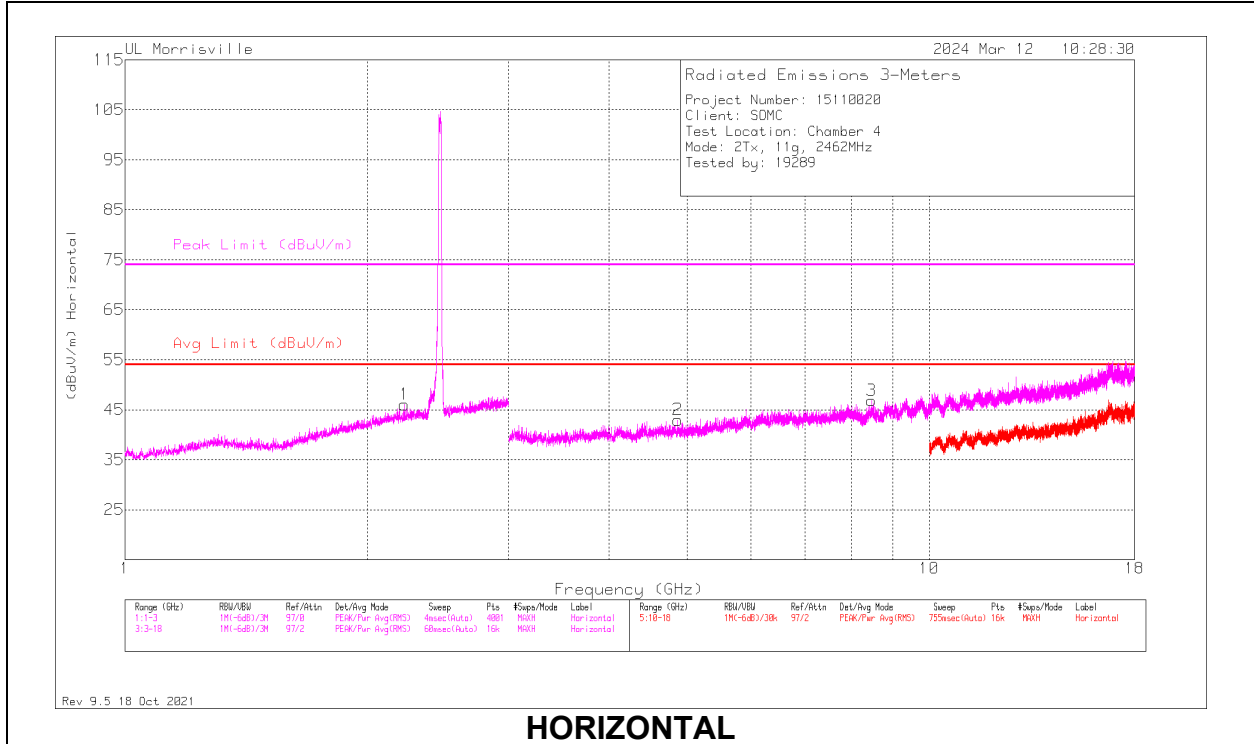
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*** 2.8735	27.19	Pk	32.4	-12.2	47.39	54	-6.61	74	-26.61	0-360	200	V
2	*** 4.92656	39.91	Pk	33.9	-31.5	42.31	54	-11.69	74	-31.69	0-360	100	H
3	*** 9.31688	36.4	Pk	36.4	-25.1	47.7	54	-6.3	74	-26.3	0-360	100	H
5	*** 3.7725	43.09	Pk	33.2	-32.7	43.59	54	-10.41	74	-30.41	0-360	200	V
6	*** 8.42156	38.02	Pk	35.8	-26.5	47.32	54	-6.68	74	-26.68	0-360	200	V
1	1.433	28.84	Pk	28.3	-14.9	42.24	54	-11.76	74	-31.76	0-360	100	H

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

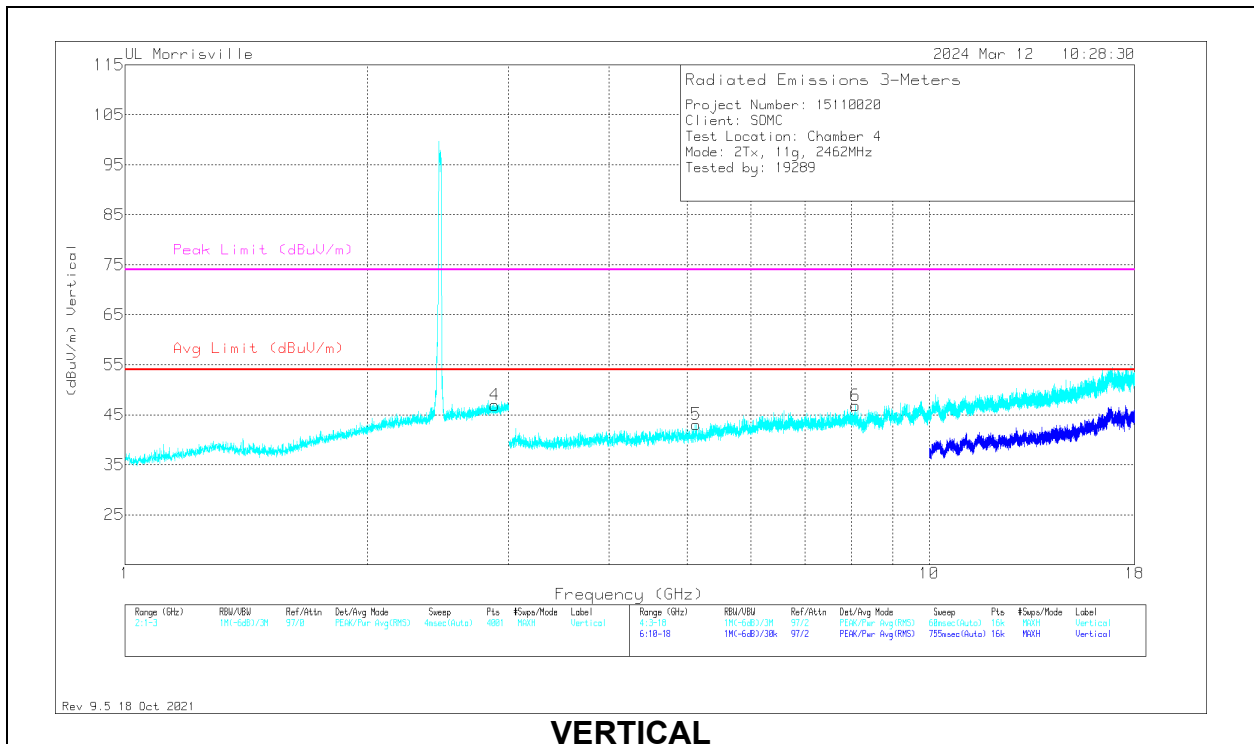
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	*** 2.2245	27.73	Pk	31.7	-13.4	46.03	54	-7.97	74	-27.97	0-360	100	H
4	*** 2.881	26.61	Pk	32.4	-12.1	46.91	54	-7.09	74	-27.09	0-360	200	V
2	*** 4.8675	40.26	Pk	34.1	-31.4	42.96	54	-11.04	74	-31.04	0-360	100	H
3	*** 8.47594	37.33	Pk	35.8	-26.3	46.83	54	-7.17	74	-27.17	0-360	100	H
5	*** 5.12813	40.04	Pk	34.2	-31.2	43.04	54	-10.96	74	-30.96	0-360	200	V
6	*** 8.0925	38.44	Pk	35.8	-27.4	46.84	54	-7.16	74	-27.16	0-360	200	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

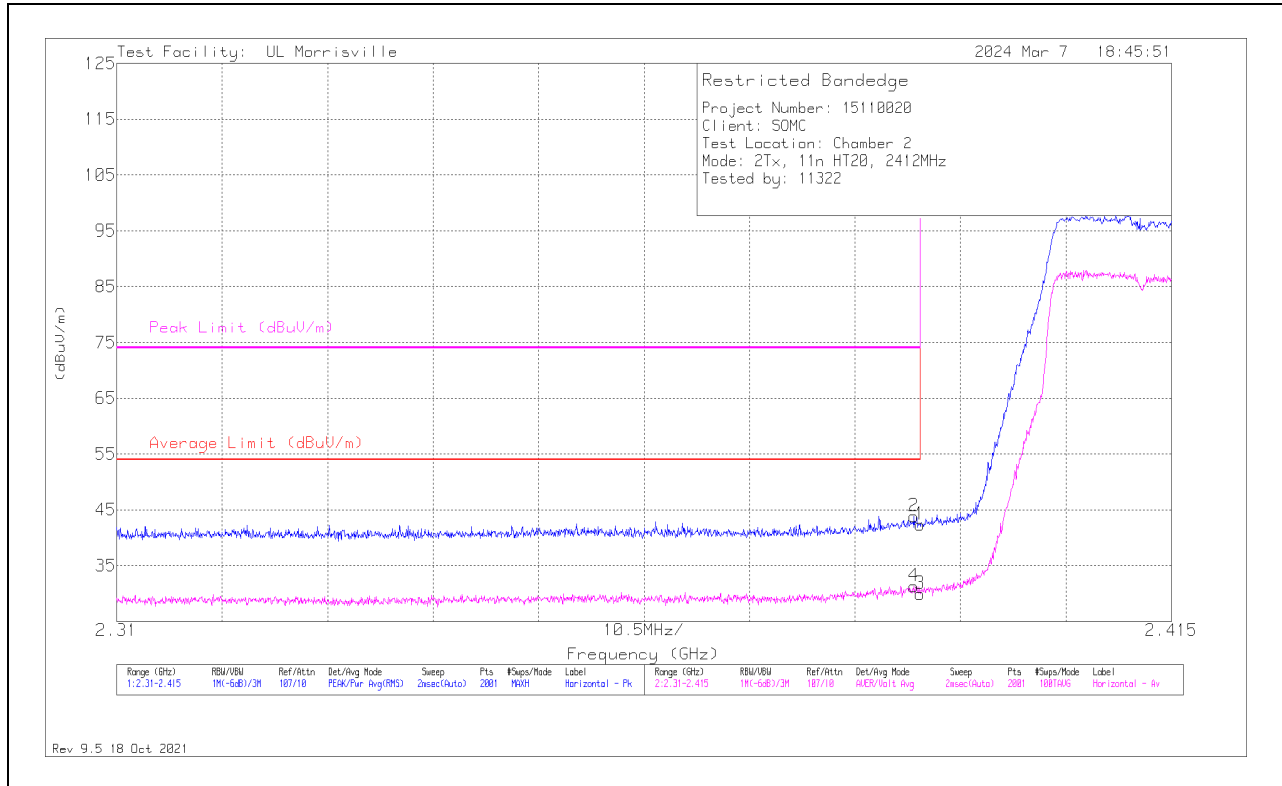
Pk - Peak detector

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

2TX Chain 0 + Chain 1 CDD 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	34.19	Pk	32.3	-24.2	42.29	-	-	74	-31.71	196	369	H
2	*** 2.38938	35.71	Pk	32.3	-24.2	43.81	-	-	74	-30.19	196	369	H
3	*** 2.38996	21.79	ADV	32.3	-24.2	29.89	54	-24.11	-	-	196	369	H
4	*** 2.38938	23.21	ADV	32.3	-24.2	31.31	54	-22.69	-	-	196	369	H

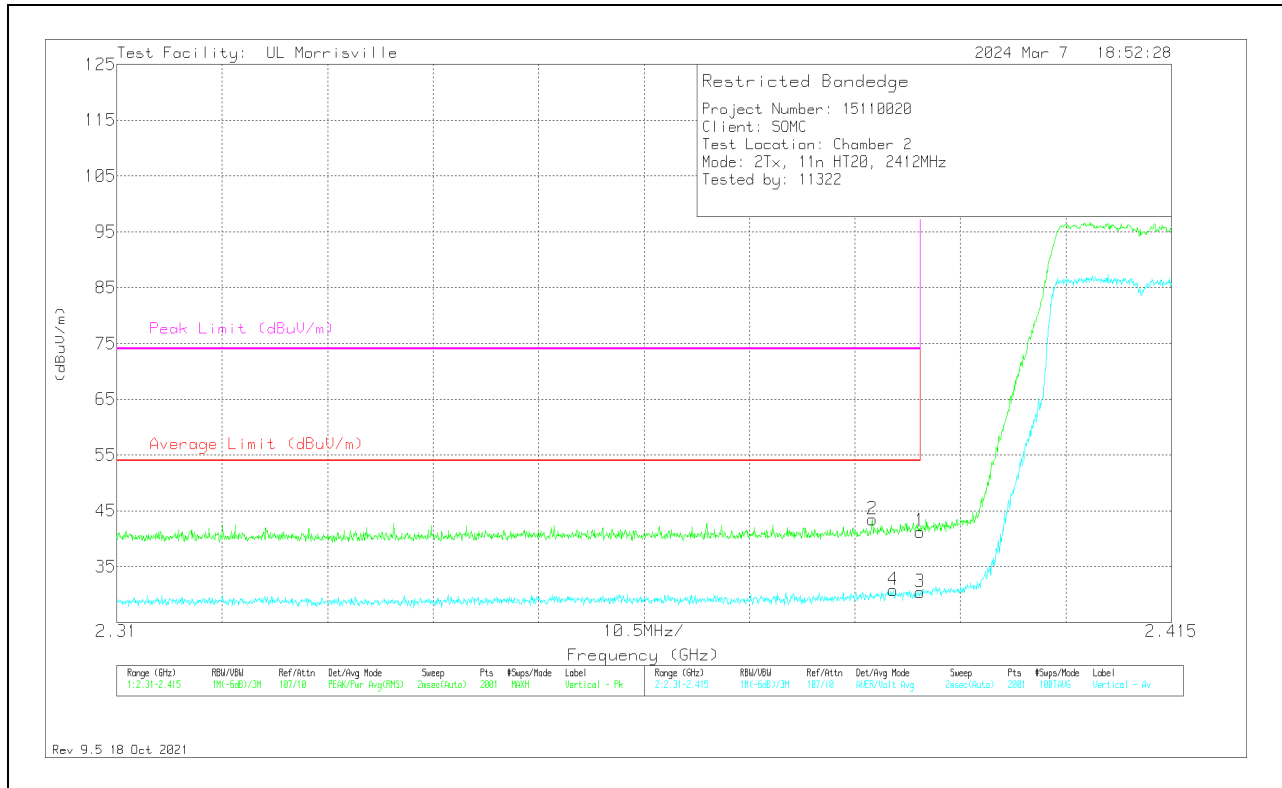
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

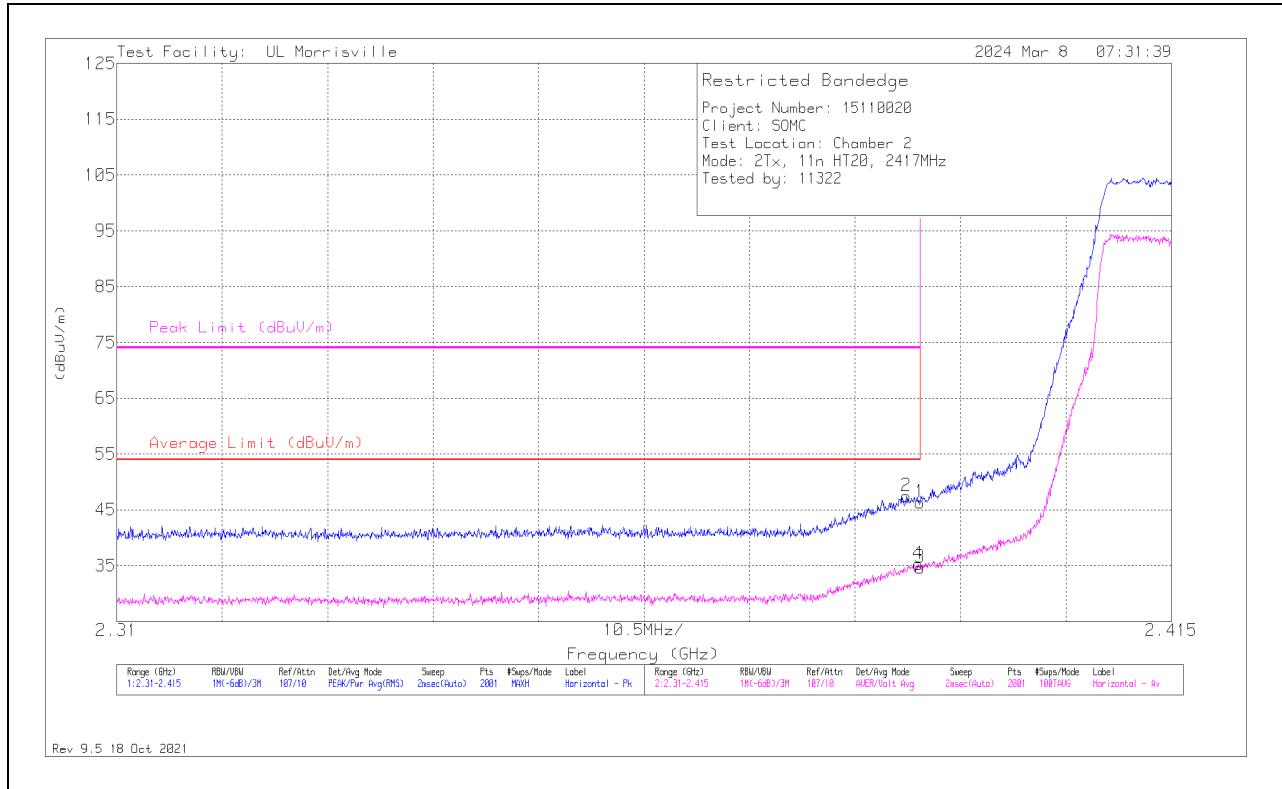


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.19	Pk	32.3	-24.2	41.29	-	-	74	-32.71	218	371	V
2	** 2.38523	35.49	Pk	32.2	-24.2	43.49	-	-	74	-30.51	218	371	V
3	*** 2.38996	22.28	ADV	32.3	-24.2	30.38	54	-23.62	-	-	218	371	V
4	** 2.38728	22.76	ADV	32.2	-24.2	30.76	54	-23.24	-	-	218	371	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 (LOW CHANNEL, CH 2)

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	38.18	Pk	32.3	-24.2	46.28	-	-	74	-27.72	195	175	H
2	*** 2.38859	39.31	Pk	32.3	-24.2	47.41	-	-	74	-26.59	195	175	H
3	*** 2.38996	26.56	ADV	32.3	-24.2	34.66	54	-19.34	-	-	195	175	H
4	*** 2.3898	27.18	ADV	32.3	-24.2	35.28	54	-18.72	-	-	195	175	H

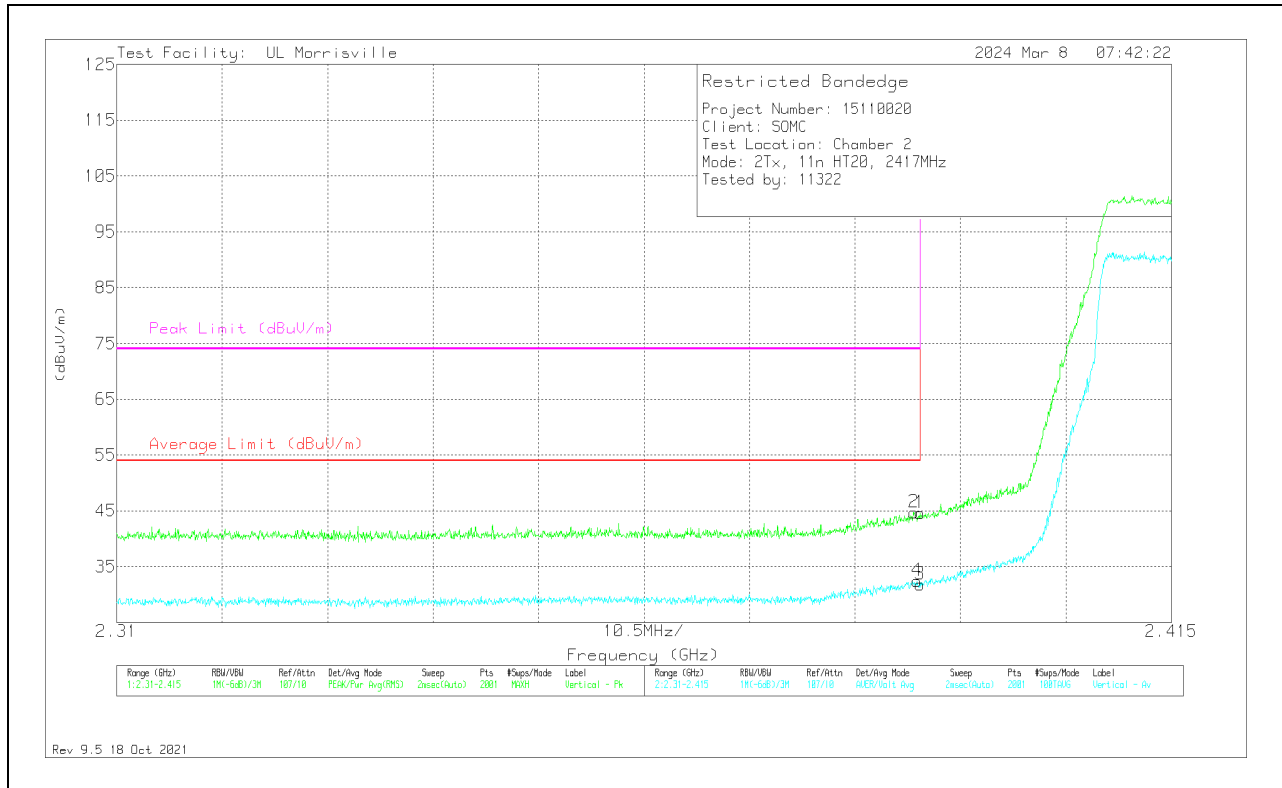
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

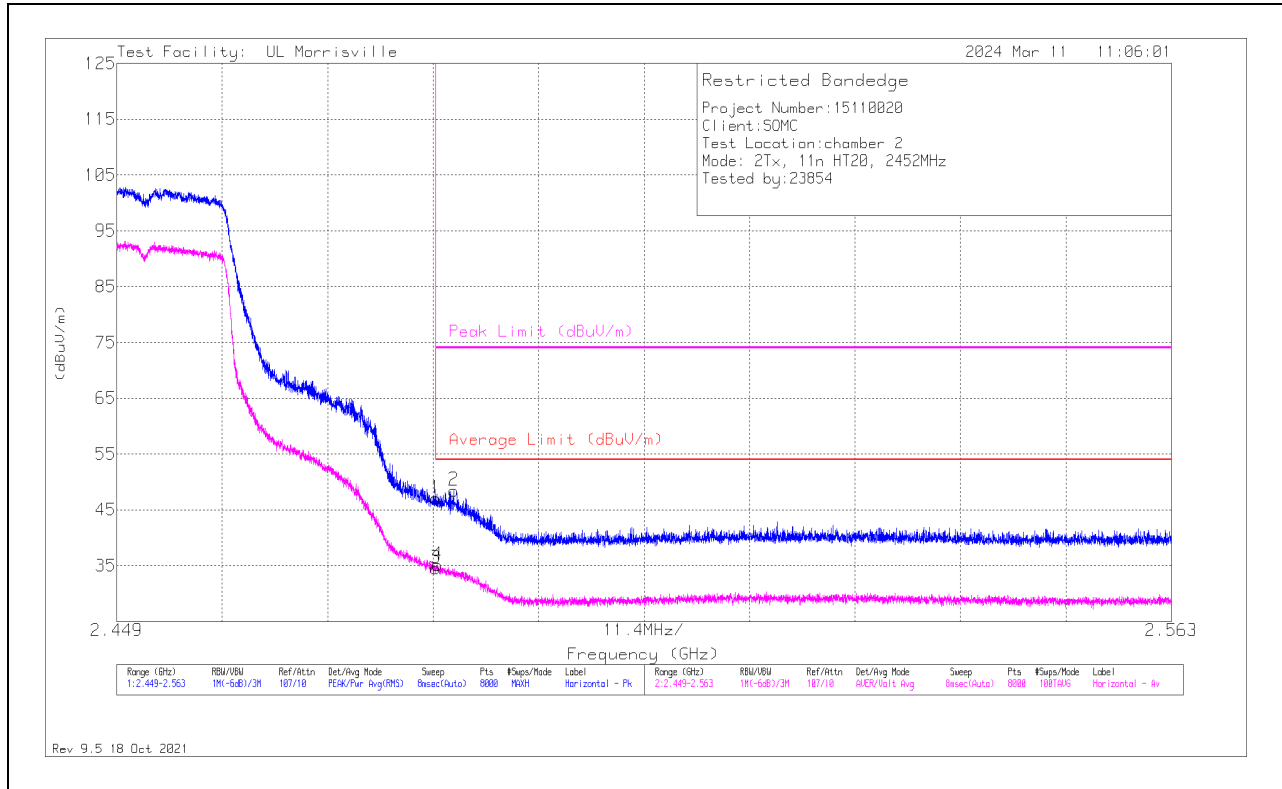


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	36.49	Pk	32.3	-24.2	44.59	-	-	74	-29.41	234	286	V
2	** 2.38933	36.64	Pk	32.3	-24.2	44.74	-	-	74	-29.26	234	286	V
3	*** 2.38996	23.66	ADV	32.3	-24.2	31.76	54	-22.24	-	-	234	286	V
4	** 2.38964	24.3	ADV	32.3	-24.2	32.4	54	-21.6	-	-	234	286	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 9)

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	*** 2.4835	39.09	Pk	32.5	-24.5	47.09	-	-	74	-26.91	96	109	H
2	*** 2.48541	40.49	Pk	32.5	-24.5	48.49	-	-	74	-25.51	96	109	H
3	*** 2.4835	26.5	ADV	32.5	-24.5	34.5	54	-19.5	-	-	96	108	H
4	*** 2.48365	27.09	ADV	32.5	-24.5	35.09	54	-18.91	-	-	96	108	H

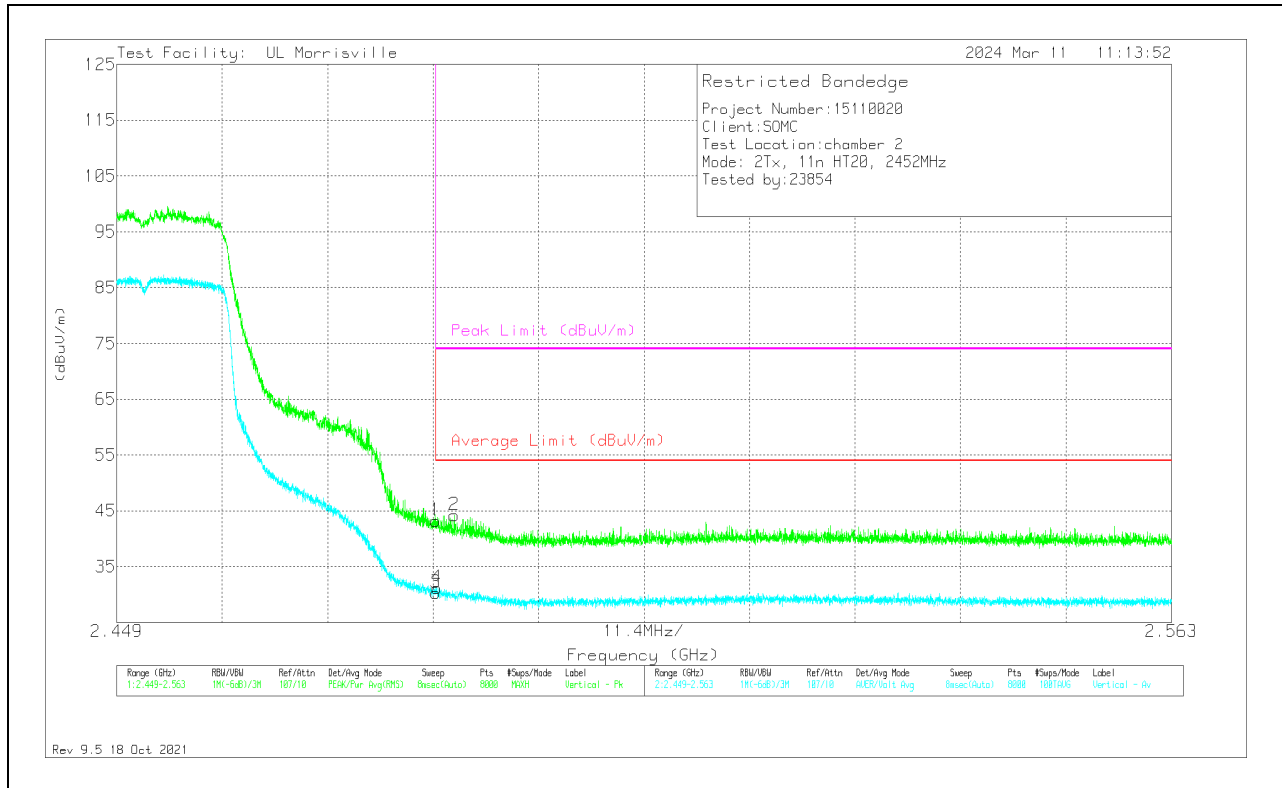
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

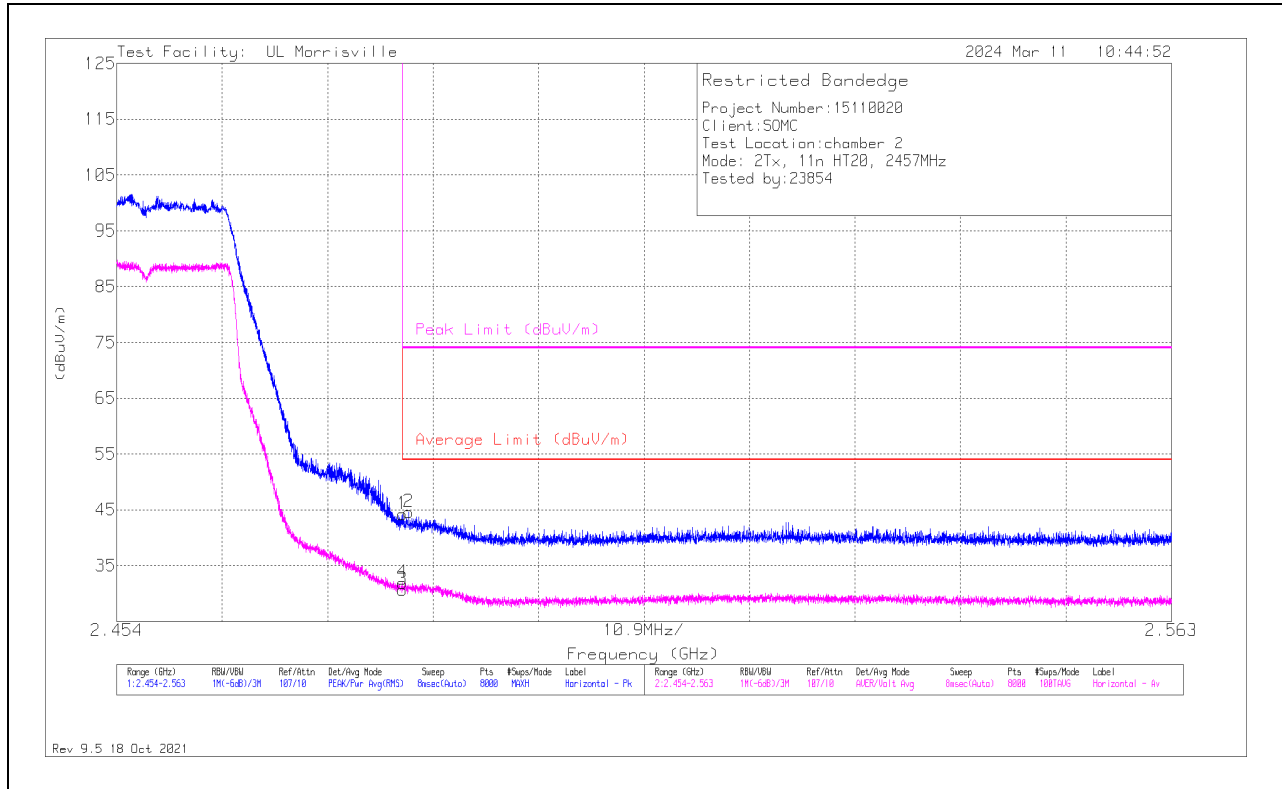


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	35.23	Pk	32.5	-24.5	43.23	-	-	74	-30.77	87	127	V
2	*** 2.48547	36.2	Pk	32.5	-24.5	44.2	-	-	74	-29.8	87	127	V
3	*** 2.4835	22.26	ADV	32.5	-24.5	30.26	54	-23.74	-	-	87	127	V
4	*** 2.48359	23.12	ADV	32.5	-24.5	31.12	54	-22.88	-	-	87	127	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 10)

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	*** 2.4835	36.24	Pk	32.5	-24.5	44.24	-	-	74	-29.76	199	187	H
2	*** 2.48418	36.58	Pk	32.5	-24.5	44.58	-	-	74	-29.42	199	187	H
3	*** 2.4835	22.7	ADV	32.5	-24.5	30.7	54	-23.3	-	-	199	186	H
4	*** 2.48354	23.92	ADV	32.5	-24.5	31.92	54	-22.08	-	-	199	186	H

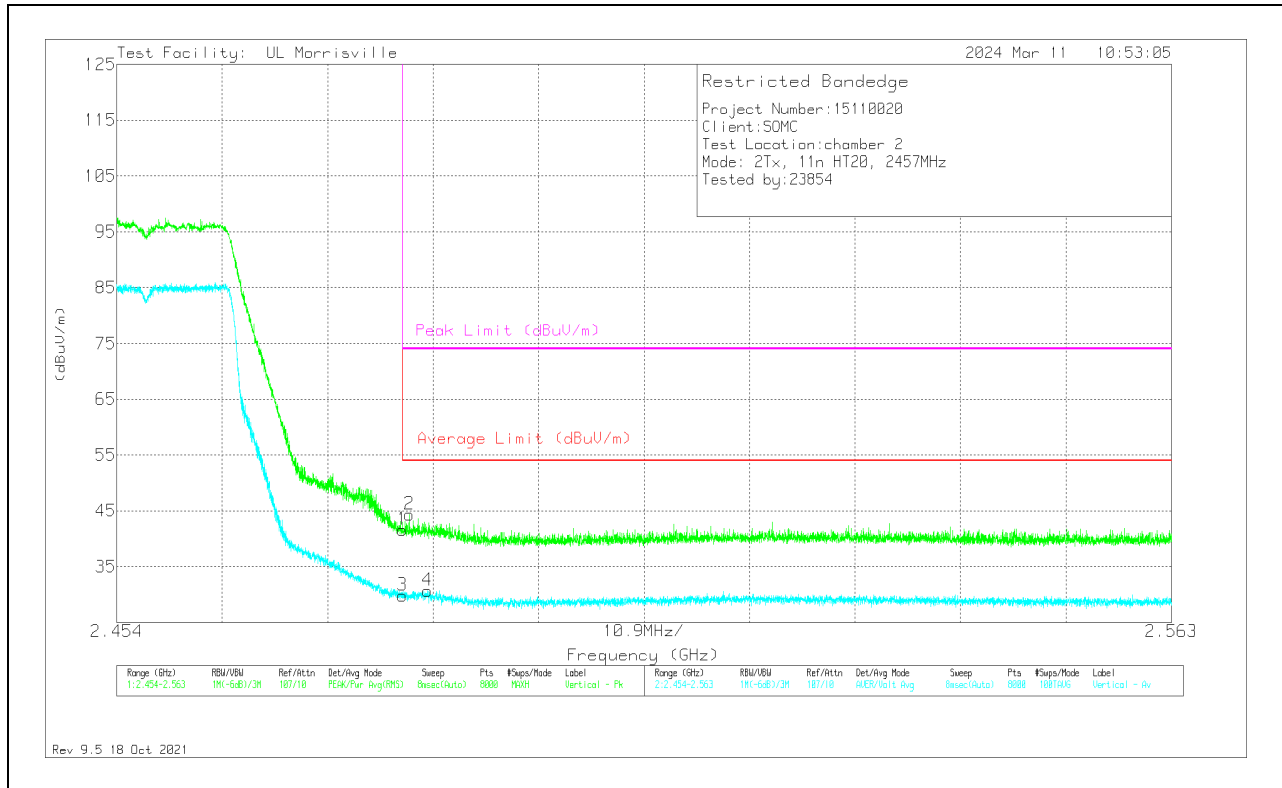
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

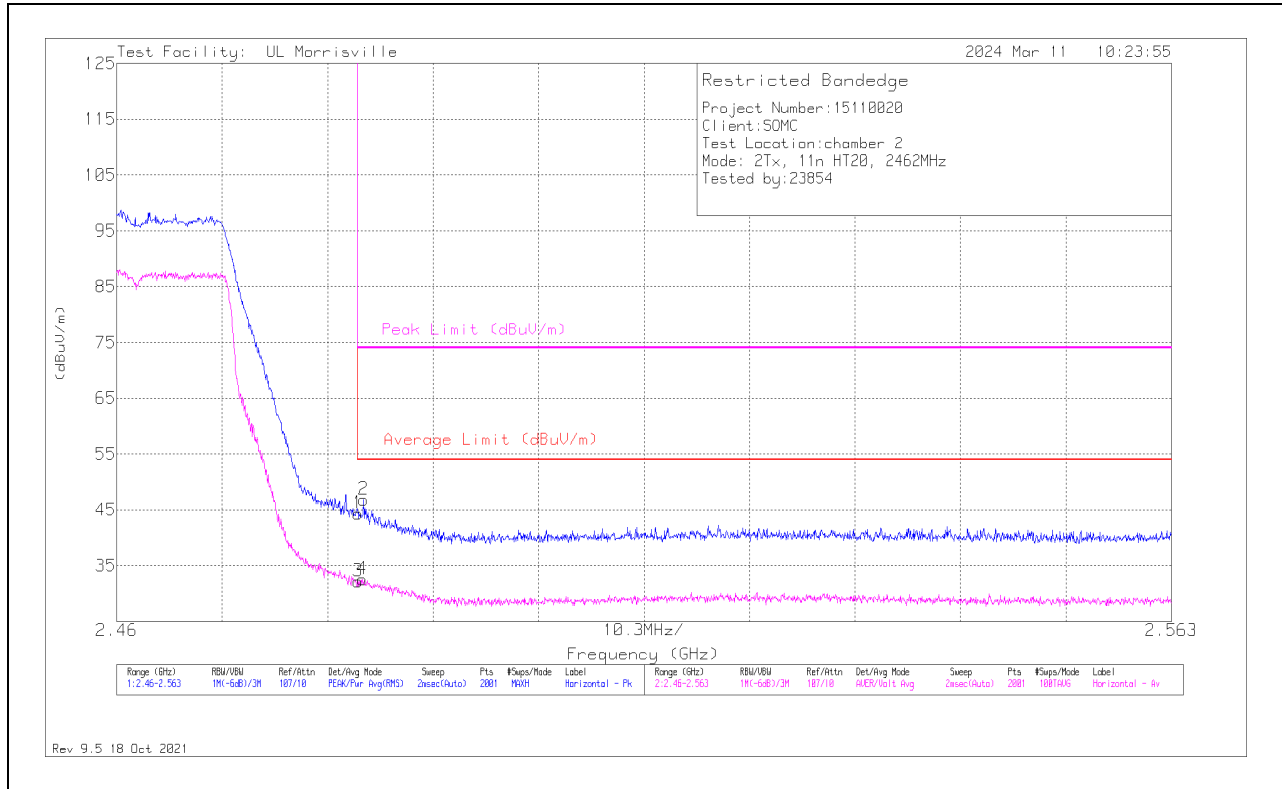


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	33.59	Pk	32.5	-24.5	41.59	-	-	74	-32.41	217	380	V
2	** 2.48422	36.38	Pk	32.5	-24.5	44.38	-	-	74	-29.62	217	380	V
3	*** 2.4835	21.75	ADV	32.5	-24.5	29.75	54	-24.25	-	-	217	380	V
4	*** 2.48615	22.77	ADV	32.5	-24.6	30.67	54	-23.33	-	-	217	380	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	36.29	Pk	32.5	-24.5	44.29	-	-	74	-29.71	195	137	H
2	*** 2.4841	38.85	Pk	32.5	-24.5	46.85	-	-	74	-27.15	195	137	H
3	*** 2.48354	24.22	ADV	32.5	-24.5	32.22	54	-21.78	-	-	195	137	H
4	*** 2.484	24.59	ADV	32.5	-24.5	32.59	54	-21.41	-	-	195	137	H

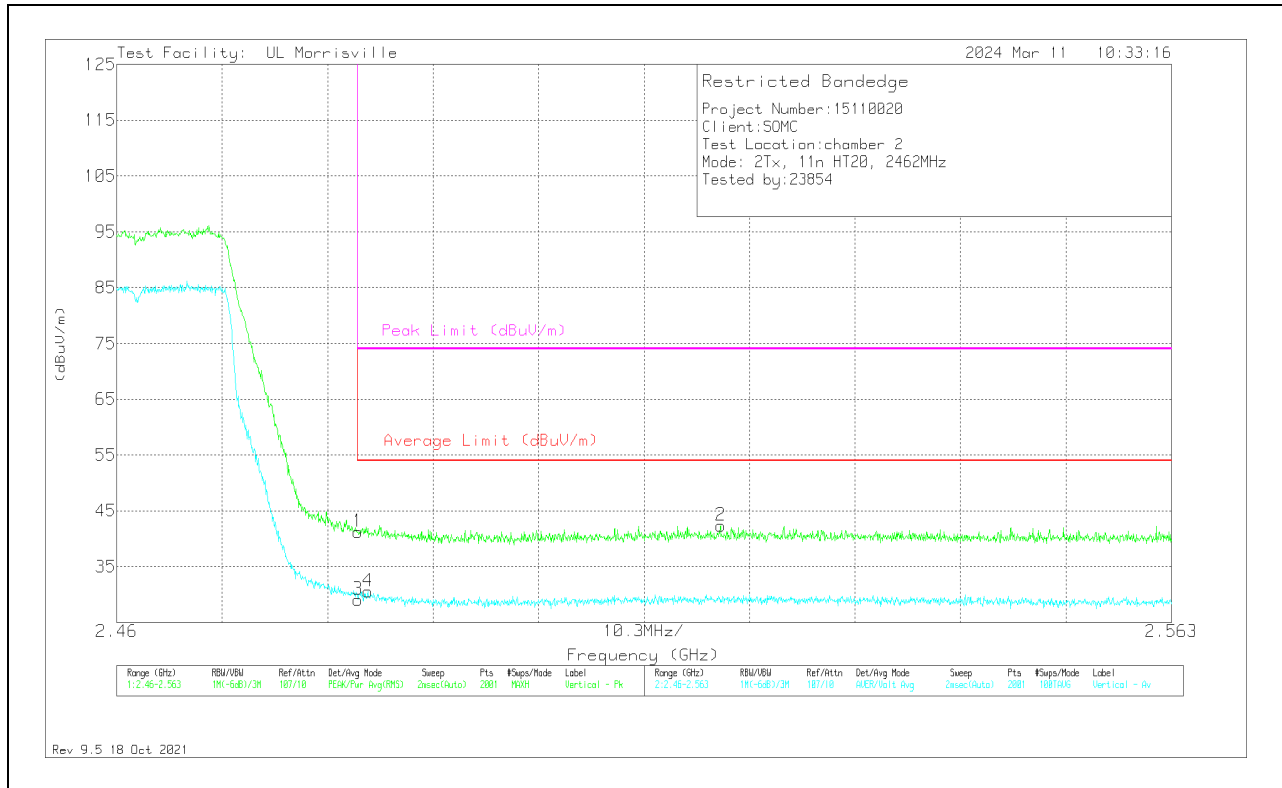
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



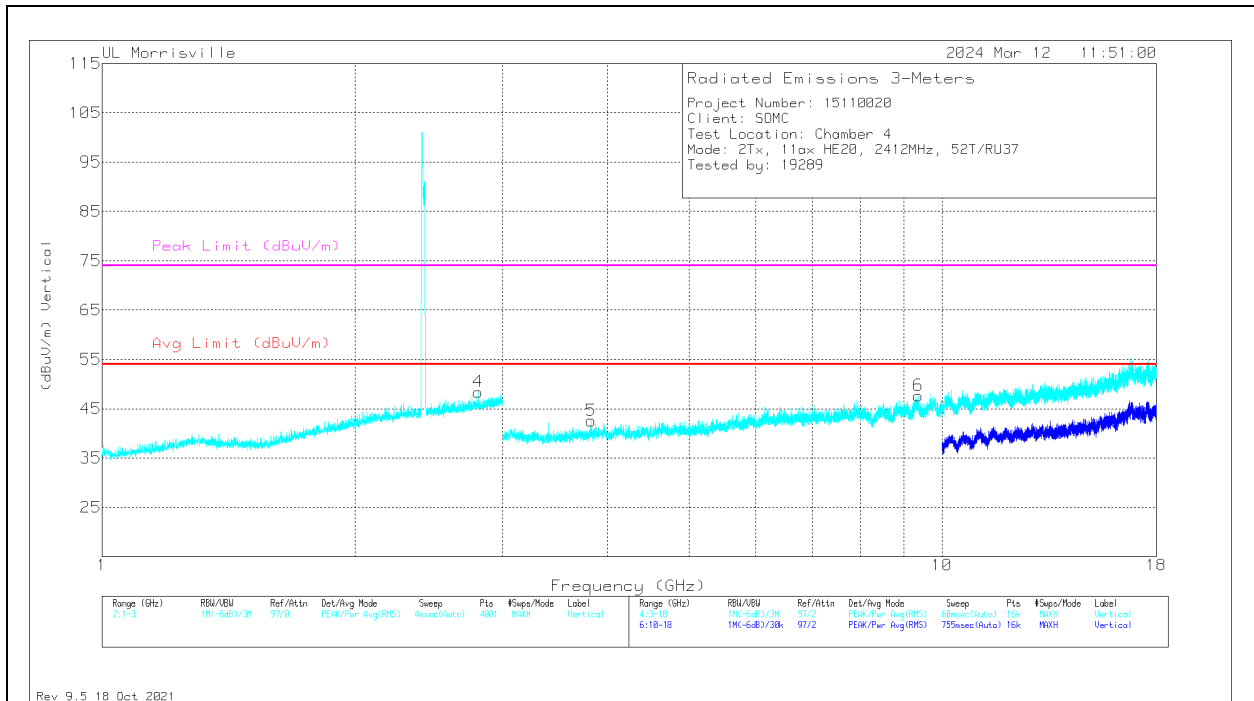
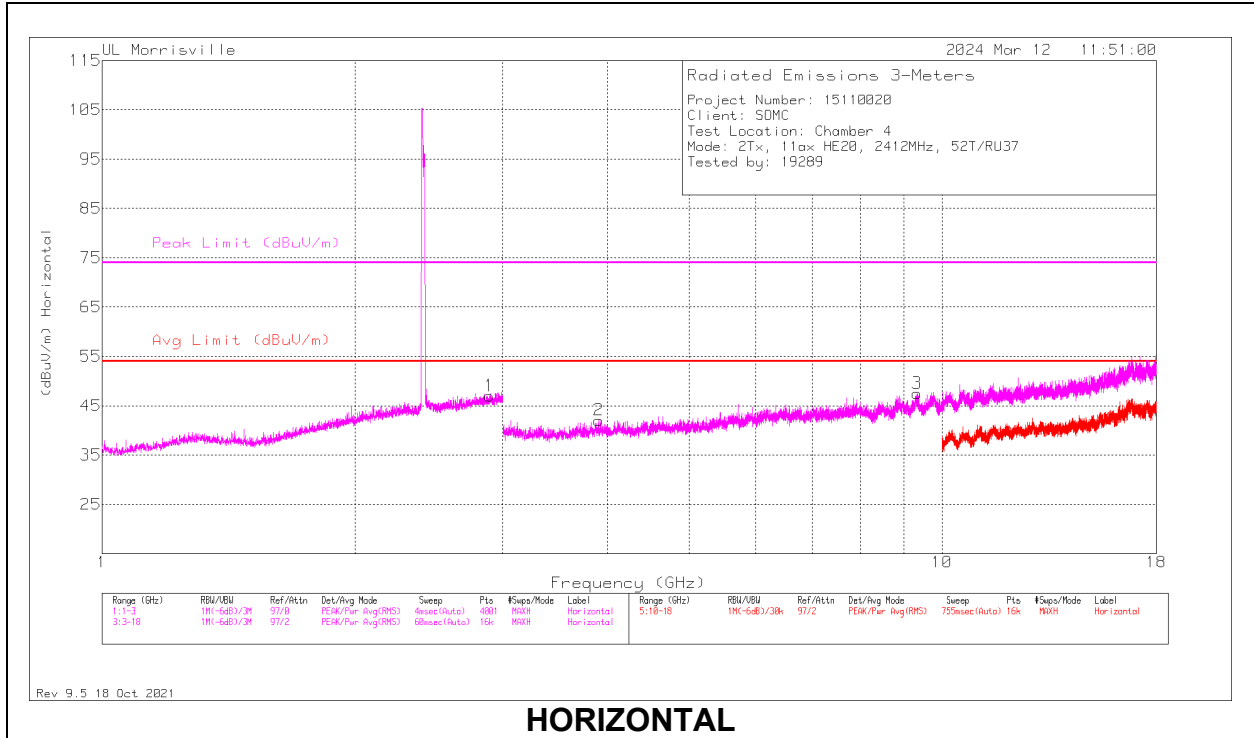
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	33.22	Pk	32.5	-24.5	41.22	-	-	74	-32.78	252	349	V
2	** 2.51897	34.53	Pk	32.5	-24.7	42.33	-	-	74	-31.67	252	349	V
3	*** 2.48354	21.05	ADV	32.5	-24.5	29.05	54	-24.95	-	-	252	349	V
4	*** 2.48451	22.59	ADV	32.5	-24.5	30.59	54	-23.41	-	-	252	349	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 MODE IN THE 2.4GHZ BAND
2TX CHAIN 0 + CHAIN 1 MODE: 52T

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



VERTICAL

RADIATED EMISSIONS

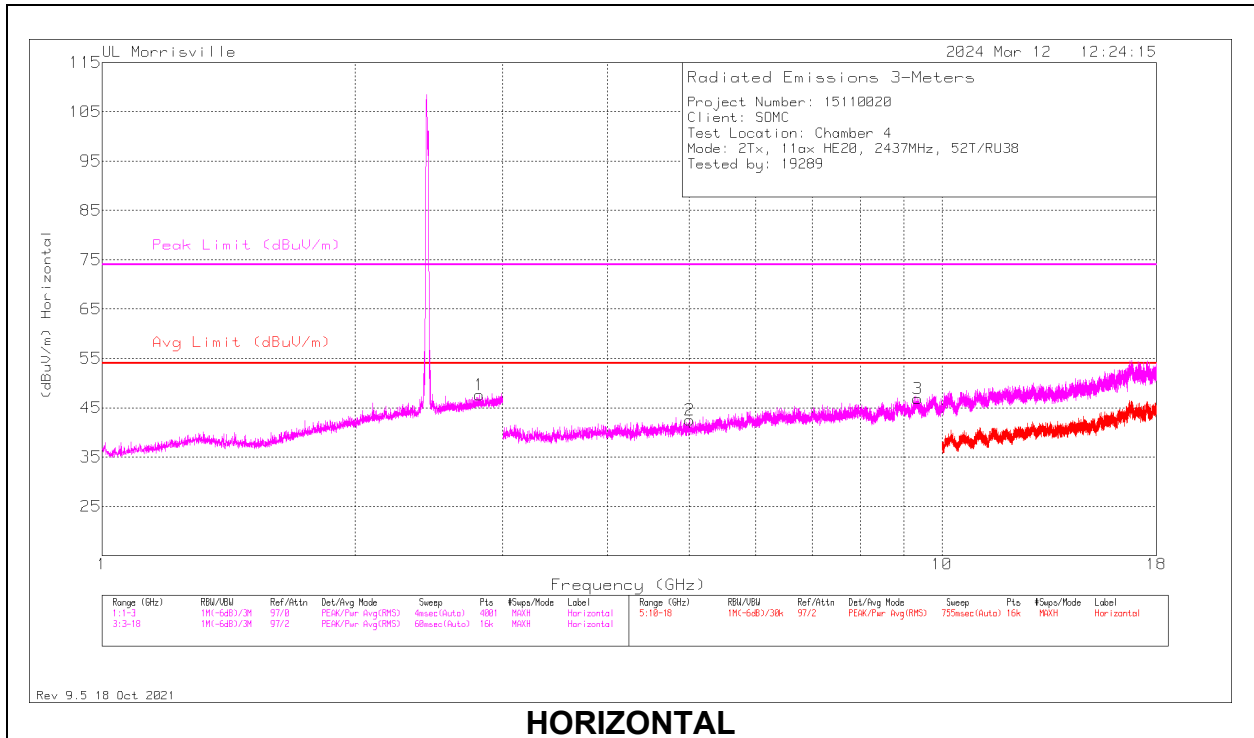
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.8905	26.6	Pk	32.5	-12.1	47	54	-7	74	-27	0-360	100	H
4	*** 2.8045	28.13	Pk	32.6	-12.3	48.43	54	-5.57	74	-25.57	0-360	200	V
2	*** 3.9	41.56	Pk	33.3	-32.8	42.06	54	-11.94	74	-31.94	0-360	100	H
3	*** 9.33656	35.82	Pk	36.5	-24.8	47.52	54	-6.48	74	-26.48	0-360	100	H
5	*** 3.82125	42.19	Pk	33.3	-32.9	42.59	54	-11.41	74	-31.41	0-360	200	V
6	*** 9.3675	36.16	Pk	36.5	-25	47.66	54	-6.34	74	-26.34	0-360	200	V

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

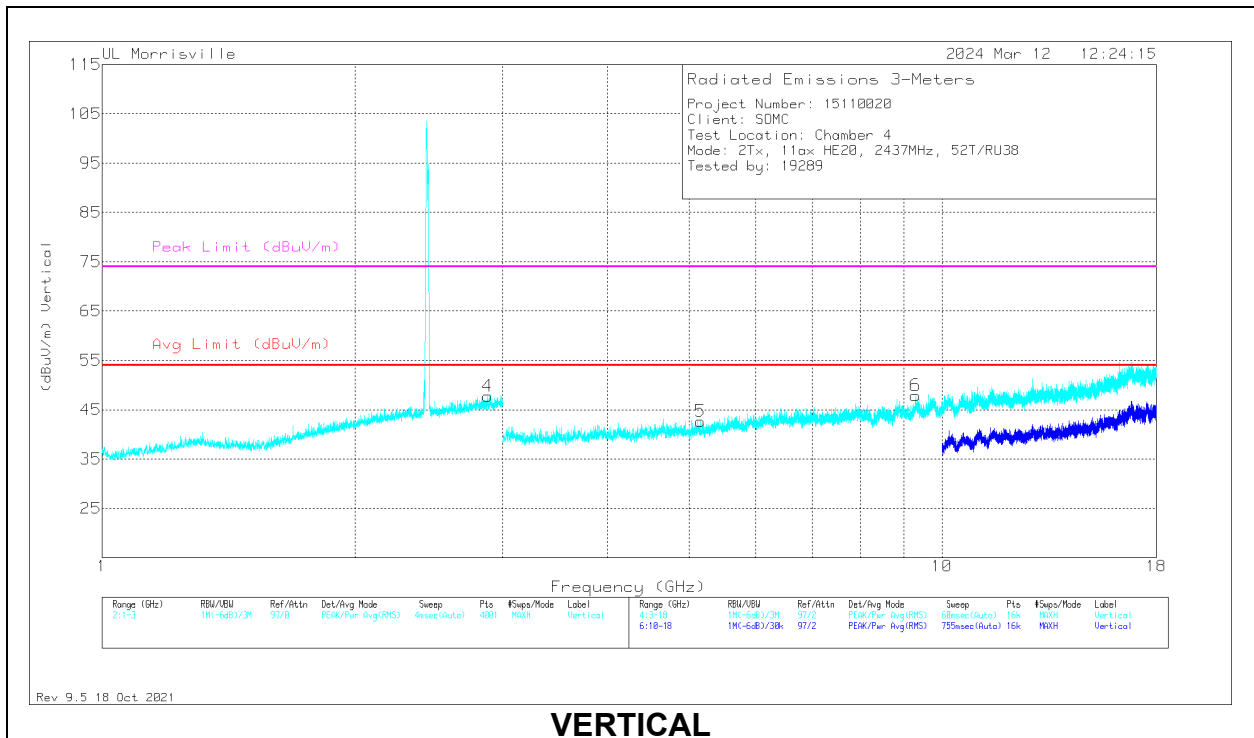
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

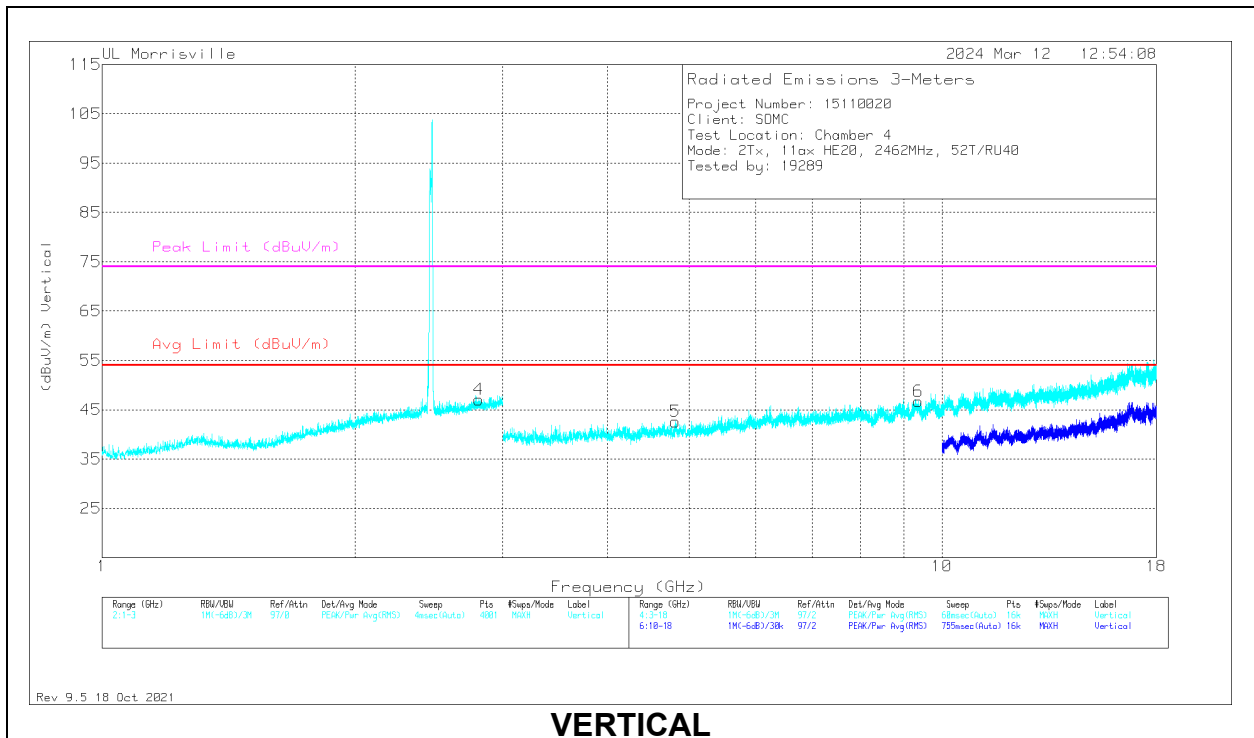
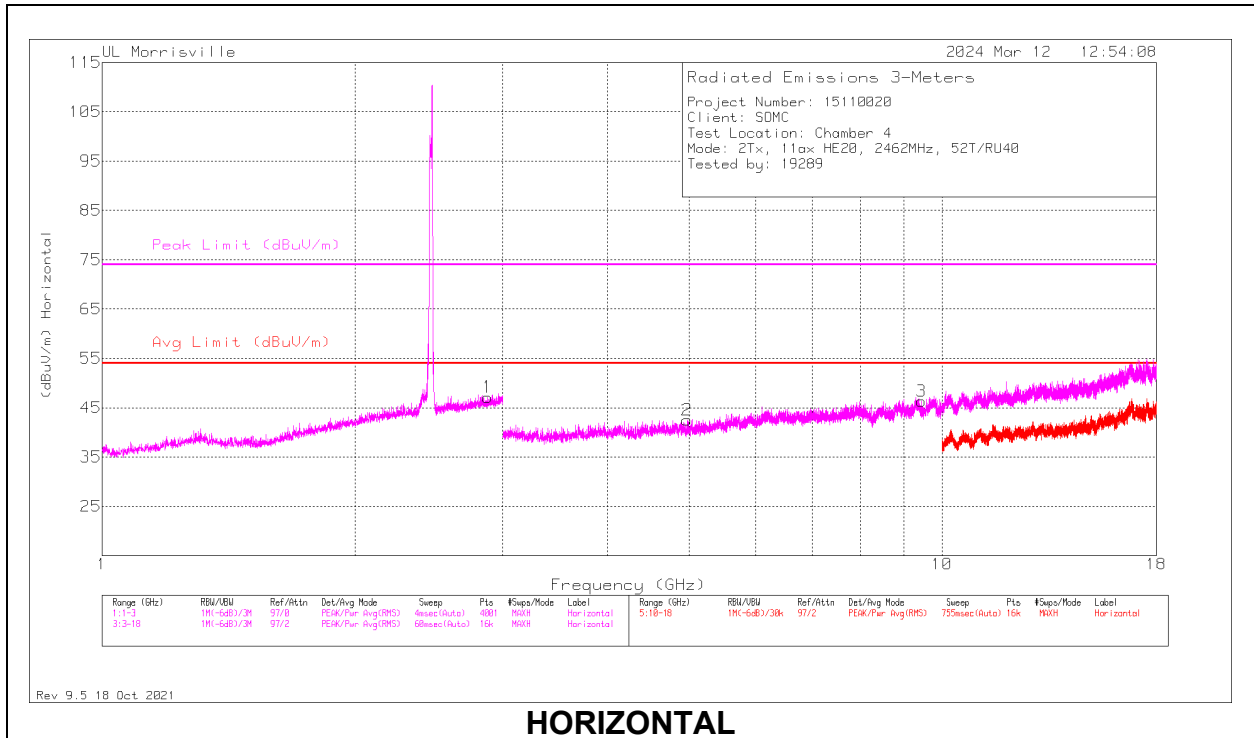
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.8125	27.29	Pk	32.5	-12.2	47.59	54	-6.41	74	-26.41	0-360	100	H
4	*** 2.8755	27.46	Pk	32.4	-12.1	47.76	54	-6.24	74	-26.24	0-360	100	V
2	*** 5.01	40.29	Pk	34.1	-31.9	42.49	54	-11.51	74	-31.51	0-360	100	H
3	*** 9.36188	35.01	Pk	36.5	-24.7	46.81	54	-7.19	74	-27.19	0-360	100	H
5	** 5.15625	39.66	Pk	34.2	-31.2	42.66	54	-11.34	74	-31.34	0-360	200	V
6	*** 9.30094	36.19	Pk	36.4	-24.7	47.89	54	-6.11	74	-26.11	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

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	*** 2.878	26.72	Pk	32.4	-12	47.12	54	-6.88	74	-26.88	0-360	100	H
4	*** 2.81	26.96	Pk	32.5	-12.4	47.06	54	-6.94	74	-26.94	0-360	200	V
2	*** 4.97063	39.99	Pk	34	-31.5	42.49	54	-11.51	74	-31.51	0-360	100	H
3	*** 9.45	35.33	Pk	36.7	-25.7	46.33	54	-7.67	74	-27.67	0-360	100	H
5	*** 4.81406	39.99	Pk	34.1	-31.5	42.59	54	-11.41	74	-31.41	0-360	200	V
6	*** 9.37125	35.31	Pk	36.5	-25.1	46.71	54	-7.29	74	-27.29	0-360	200	V

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

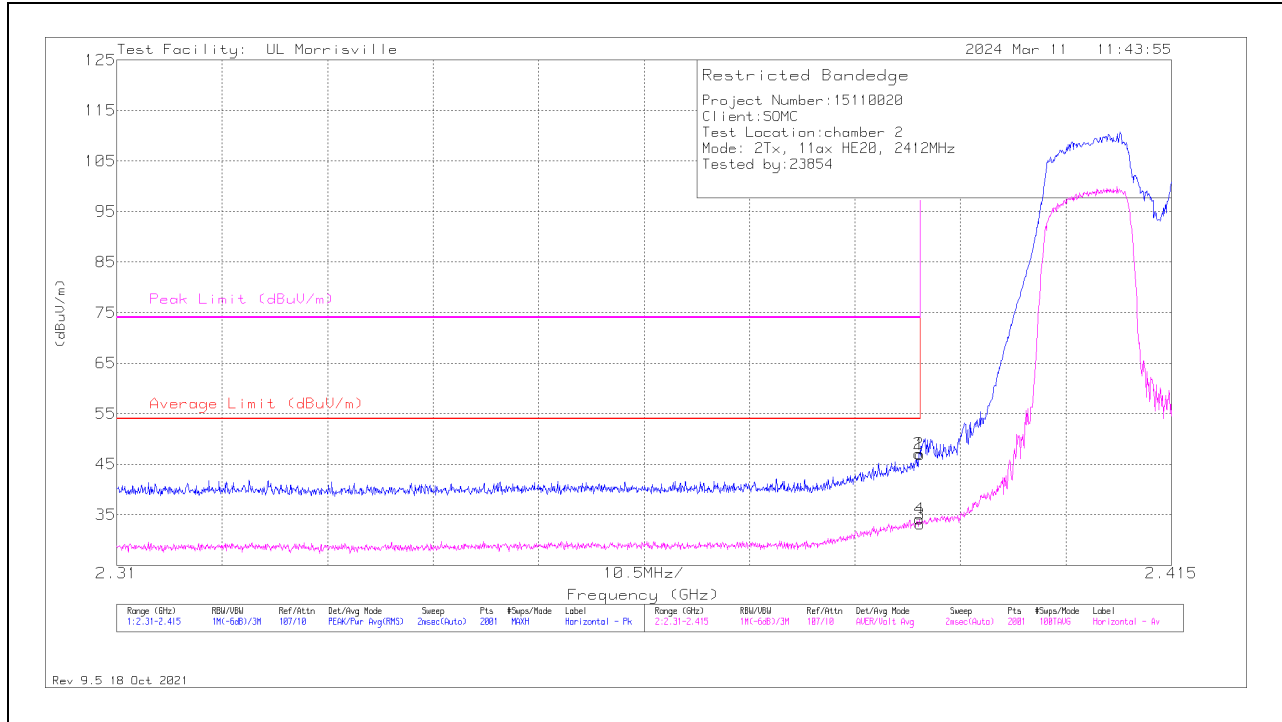
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

2TX CHAIN 0 + CHAIN 1 OFDMA MODE: 106T

BANDEDGE (LOW CHANNEL 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	38.84	Pk	32.3	-24.2	46.94	-	-	74	-27.06	176	225	H
2	*** 2.38985	39.02	Pk	32.3	-24.2	47.12	-	-	74	-26.88	176	225	H
3	*** 2.38996	25.09	ADV	32.3	-24.2	33.19	54	-20.81	-	-	176	225	H
4	*** 2.38991	26.04	ADV	32.3	-24.2	34.14	54	-19.86	-	-	176	225	H

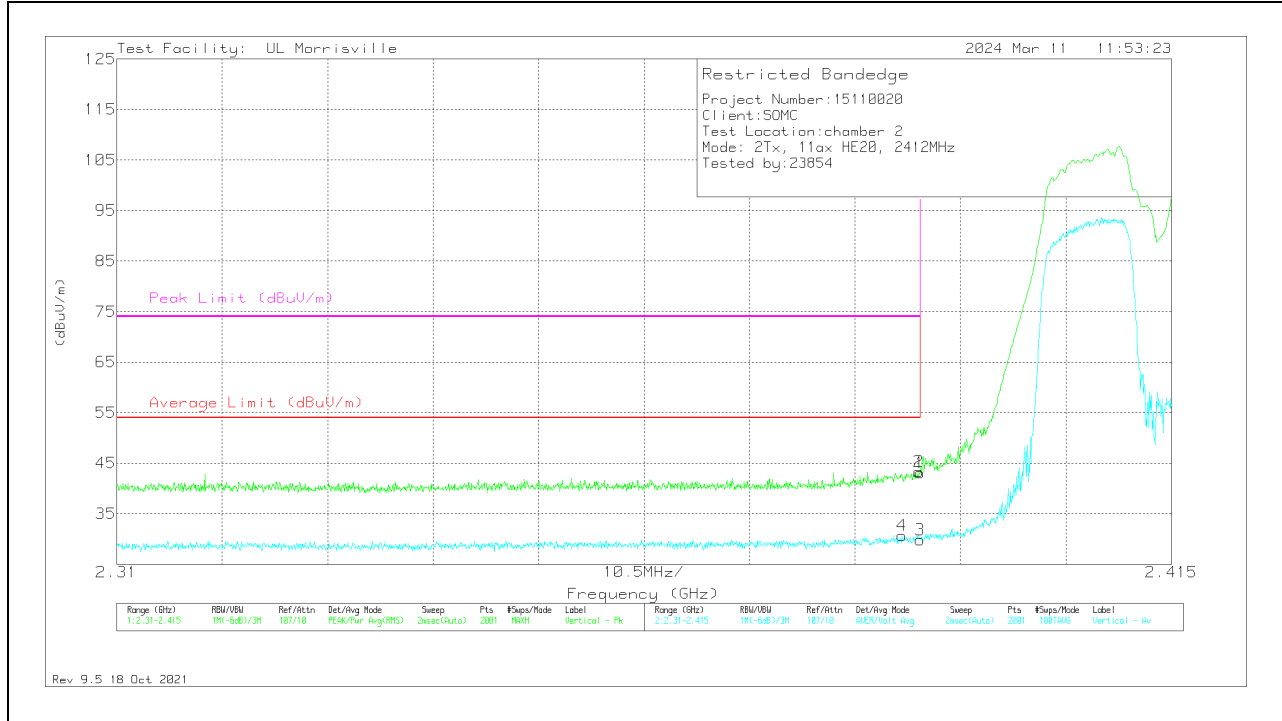
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

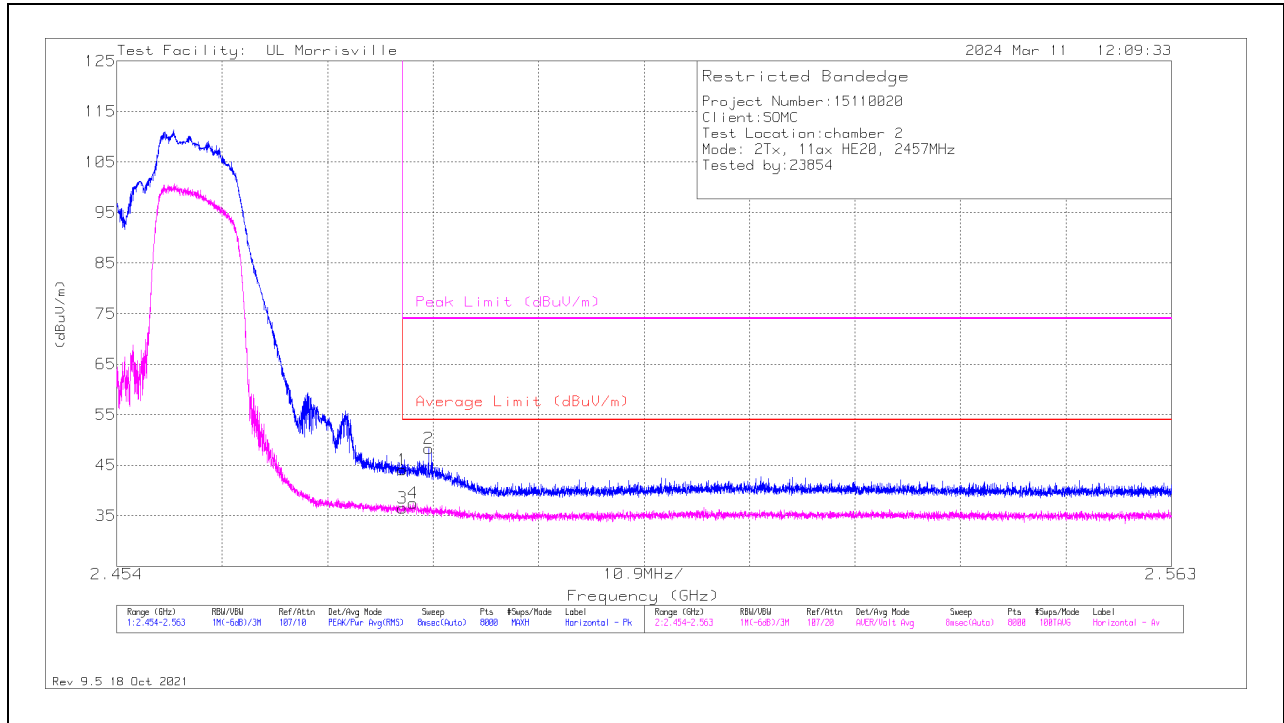


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	34.97	Pk	32.3	-24.2	43.07	-	-	74	-30.93	226	318	V
2	*** 2.38985	35.27	Pk	32.3	-24.2	43.37	-	-	74	-30.63	226	318	V
3	*** 2.38996	21.67	ADV	32.3	-24.2	29.77	54	-24.23	-	-	226	318	V
4	*** 2.38817	22.55	ADV	32.3	-24.2	30.65	54	-23.35	-	-	226	318	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 10)

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	*** 2.4835	36.11	Pk	32.5	-24.5	44.11	-	-	74	-29.89	168	113	H
2	*** 2.48624	40.36	Pk	32.5	-24.6	48.26	-	-	74	-25.74	168	113	H
3	*** 2.4835	28.52	ADV	32.5	-24.5	36.52	54	-17.48	-	-	168	113	H
4	*** 2.48463	29.49	ADV	32.5	-24.5	37.49	54	-16.51	-	-	168	113	H

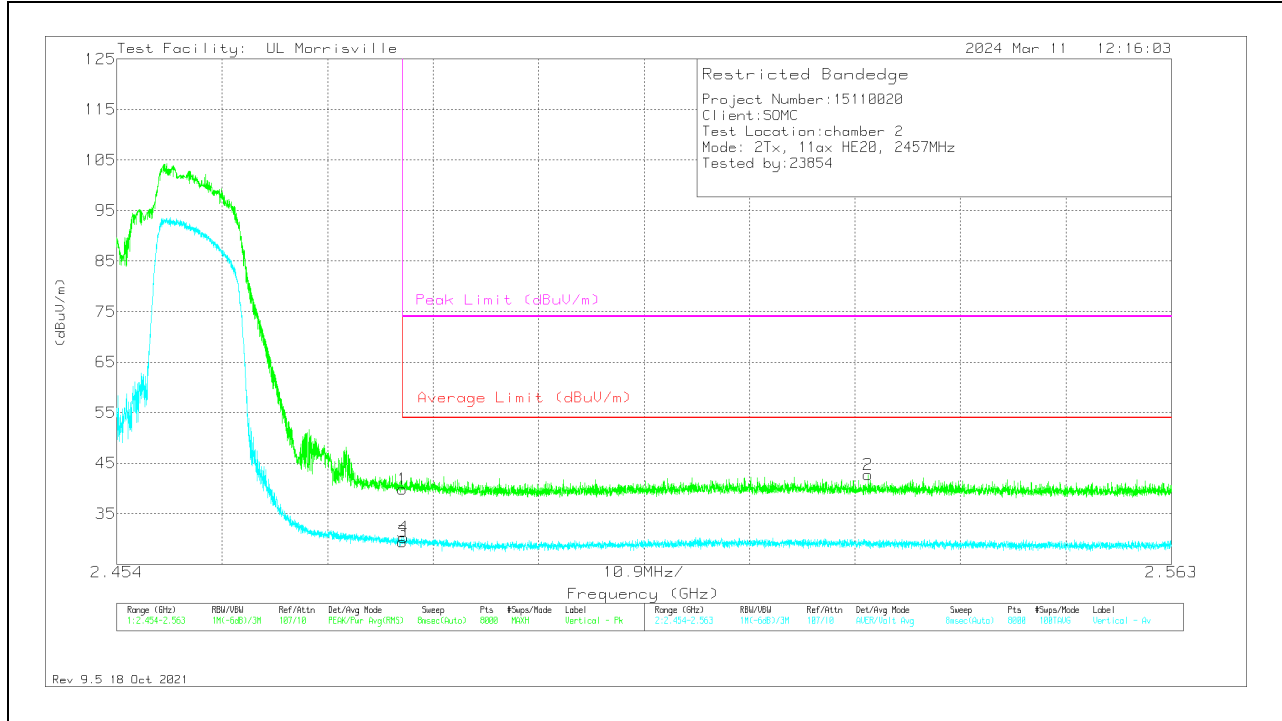
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

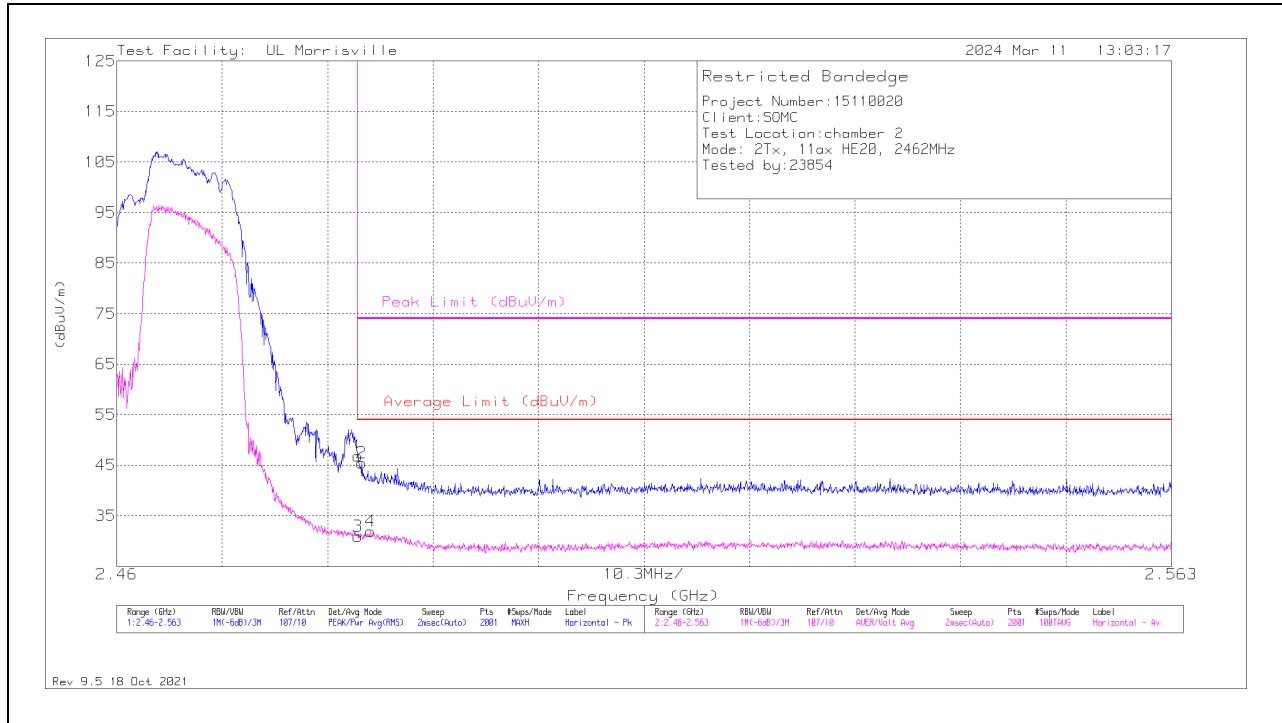


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	31.81	Pk	32.5	-24.5	39.81	-	-	74	-34.19	198	390	V
2	** 2.53166	35.12	PK	32.5	-24.9	42.72	-	-	74	-31.28	198	390	V
3	*** 2.4835	21.46	ADV	32.5	-24.5	29.46	54	-24.54	-	-	198	390	V
4	*** 2.48365	22.35	ADV	32.5	-24.5	30.35	54	-23.65	-	-	198	390	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 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	38.82	Pk	32.5	-24.5	46.82	-	-	74	-27.18	177	308	H
2	*** 2.48395	37.5	Pk	32.5	-24.5	45.5	-	-	74	-28.5	177	308	H
3	*** 2.48354	22.94	ADV	32.5	-24.5	30.94	54	-23.06	-	-	177	308	H
4	*** 2.48477	23.88	ADV	32.5	-24.5	31.88	54	-22.12	-	-	177	308	H

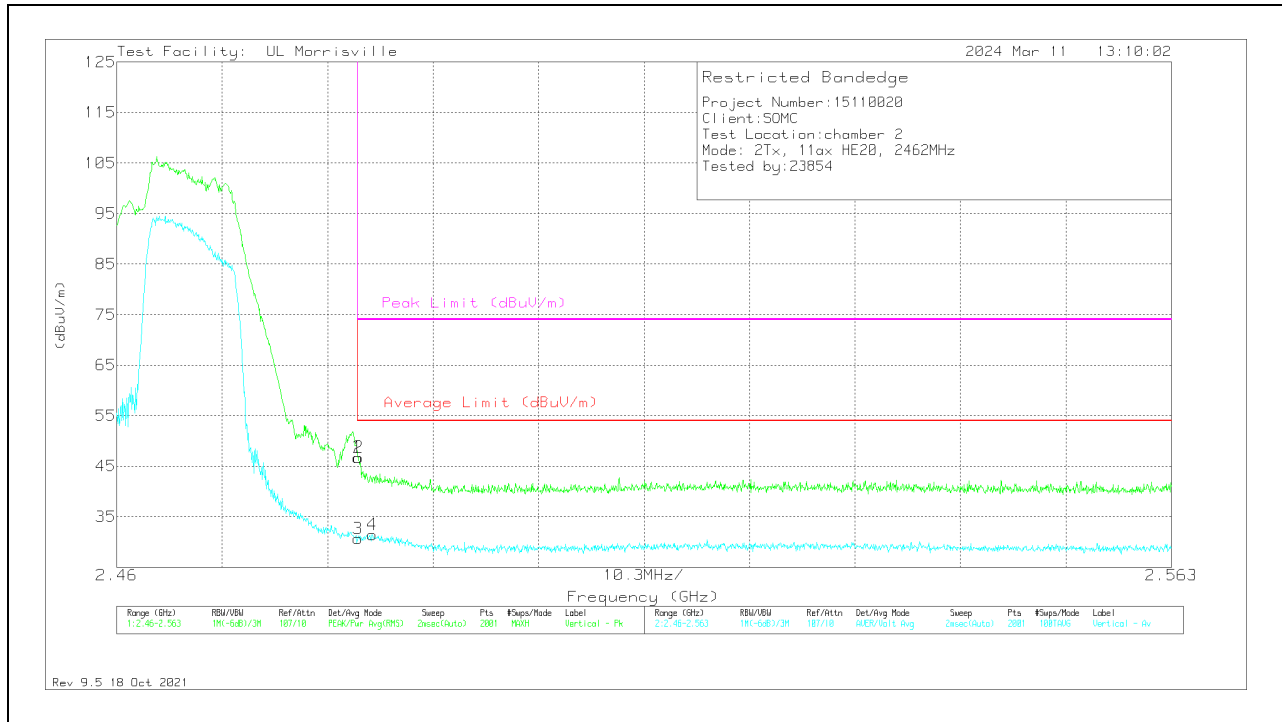
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	38.75	Pk	32.5	-24.5	46.75	-	-	74	-27.25	234	341	V
2	*** 2.48364	38.75	Pk	32.5	-24.5	46.75	-	-	74	-27.25	234	341	V
3	*** 2.48354	22.7	ADV	32.5	-24.5	30.7	54	-23.3	-	-	234	341	V
4	*** 2.48498	23.48	ADV	32.5	-24.5	31.48	54	-22.52	-	-	234	341	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

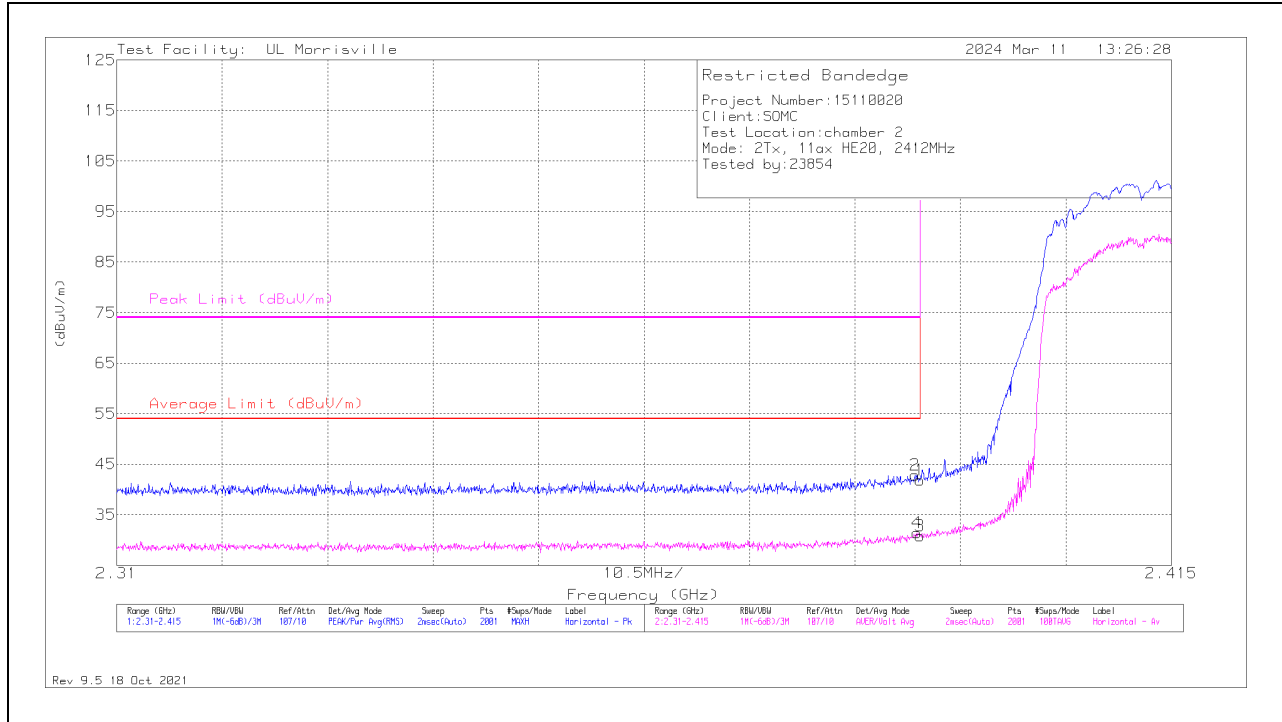
Pk - Peak detector

ADV - Linear Voltage Average

2TX CHAIN 0 + CHAIN 1 OFDMA MODE: 242T

BANDEDGE (LOW CHANNEL 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	33.7	Pk	32.3	-24.2	41.8	-	-	74	-32.2	113	117	H
2	*** 2.38949	34.78	Pk	32.3	-24.2	42.88	-	-	74	-31.12	113	117	H
3	*** 2.38996	22.74	ADV	32.3	-24.2	30.84	54	-23.16	-	-	113	117	H
4	*** 2.3897	23.31	ADV	32.3	-24.2	31.41	54	-22.59	-	-	113	117	H

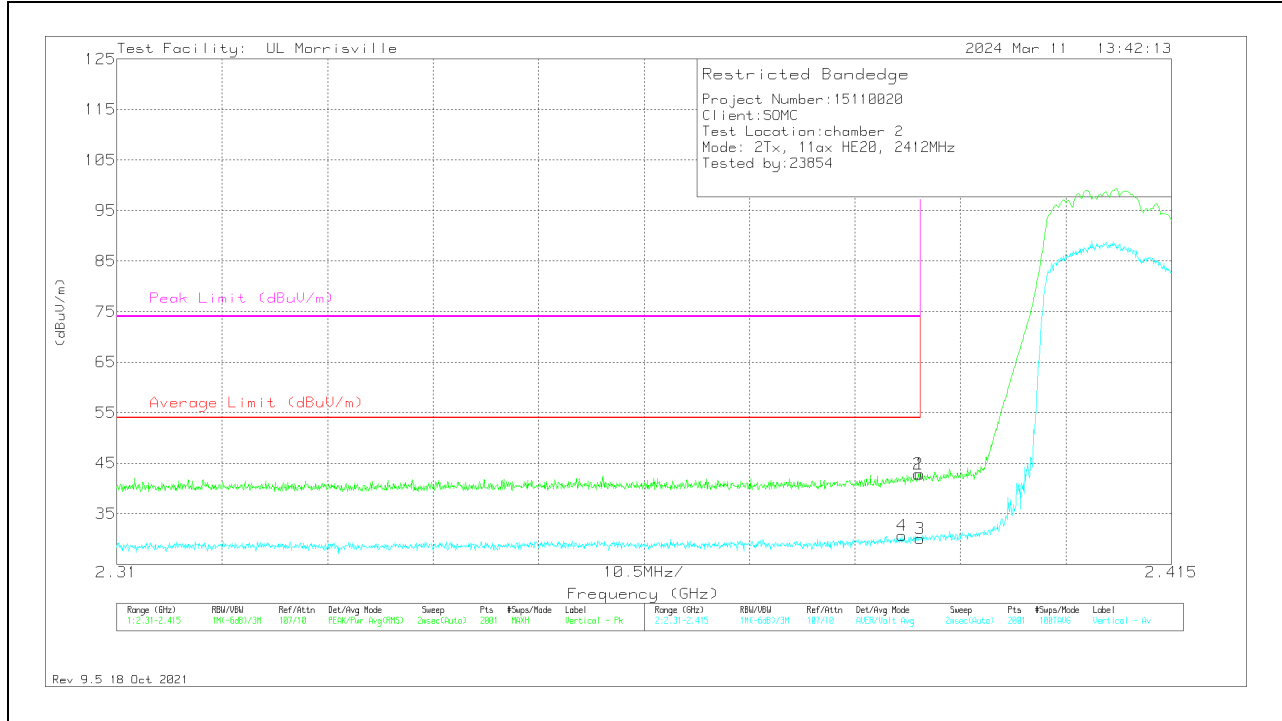
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

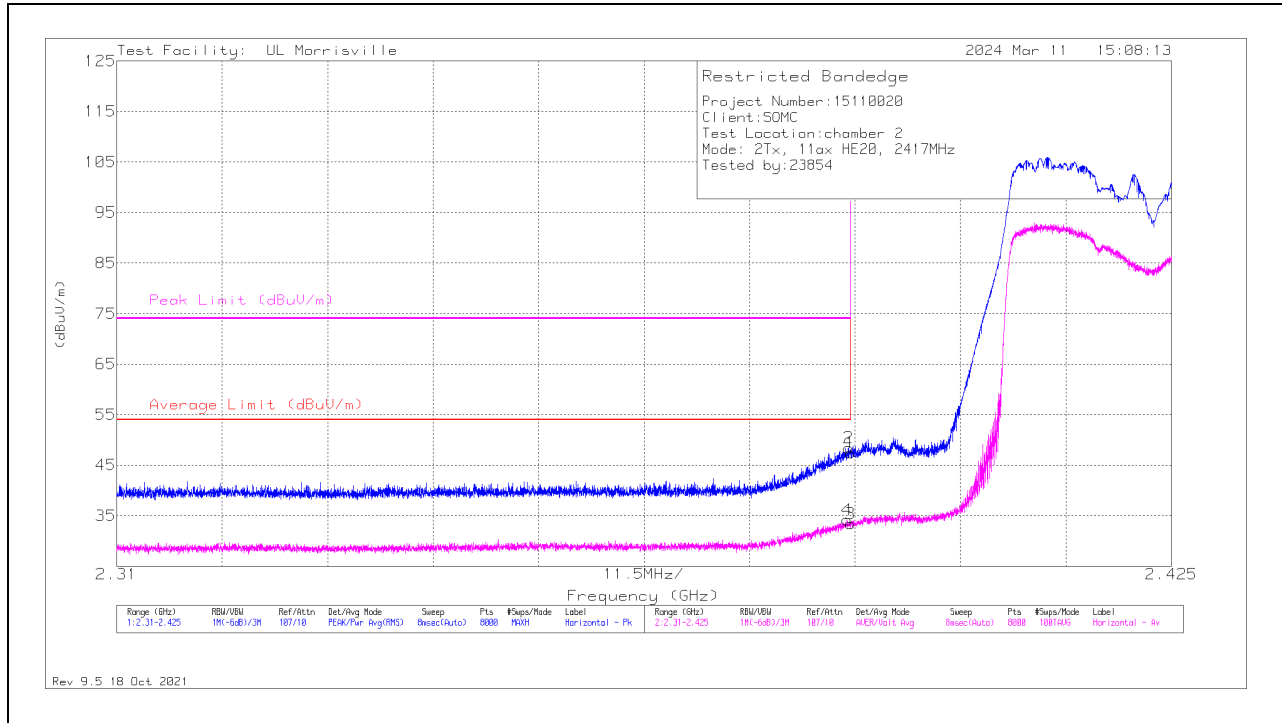


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	34.7	Pk	32.3	-24.2	42.8	-	-	74	-31.2	230	367	V
2	*** 2.3898	34.76	Pk	32.3	-24.2	42.86	-	-	74	-31.14	230	367	V
3	*** 2.38996	22	ADV	32.3	-24.2	30.1	54	-23.9	-	-	230	367	V
4	*** 2.38817	22.59	ADV	32.3	-24.2	30.69	54	-23.31	-	-	230	367	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 (LOW CHANNEL 2)

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	*** 2.38999	39.38	Pk	32.3	-24.2	47.48	-	-	74	-26.52	181	127	H
2	*** 2.38981	40.32	Pk	32.3	-24.2	48.42	-	-	74	-25.58	181	127	H
3	*** 2.38999	25.33	ADV	32.3	-24.2	33.43	54	-20.57	-	-	181	127	H
4	*** 2.38963	26	ADV	32.3	-24.2	34.1	54	-19.9	-	-	181	127	H

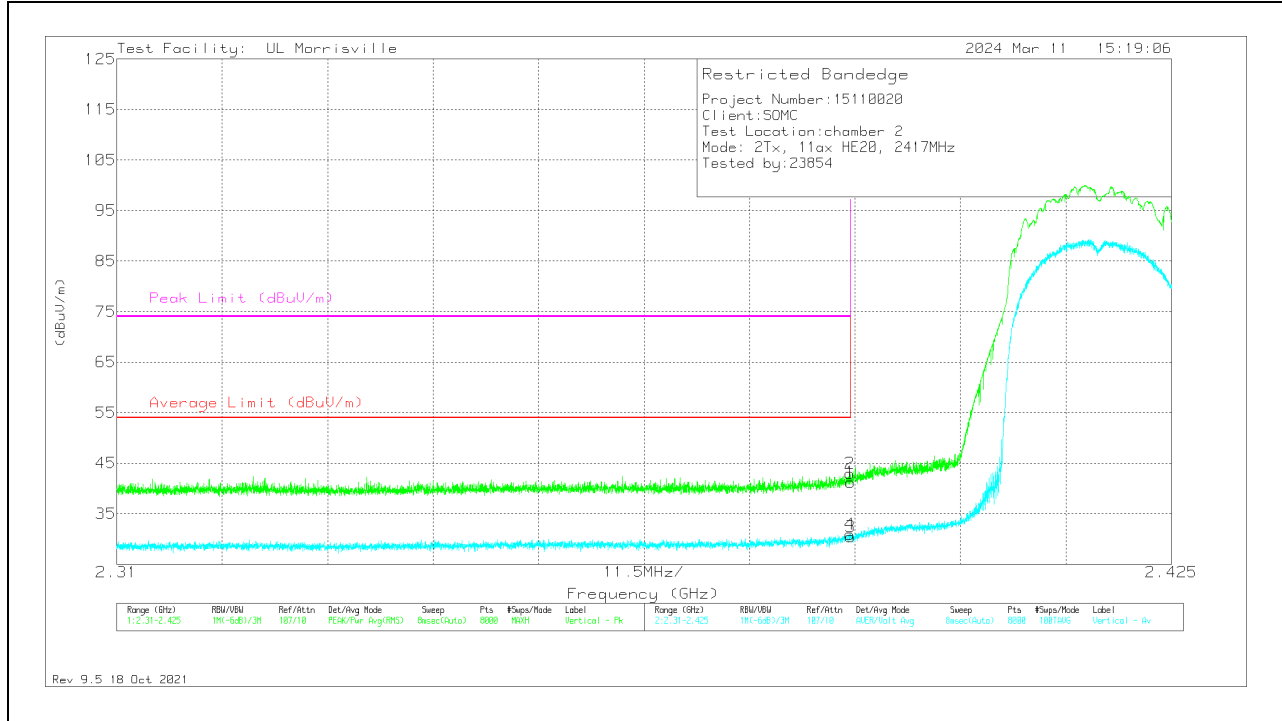
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

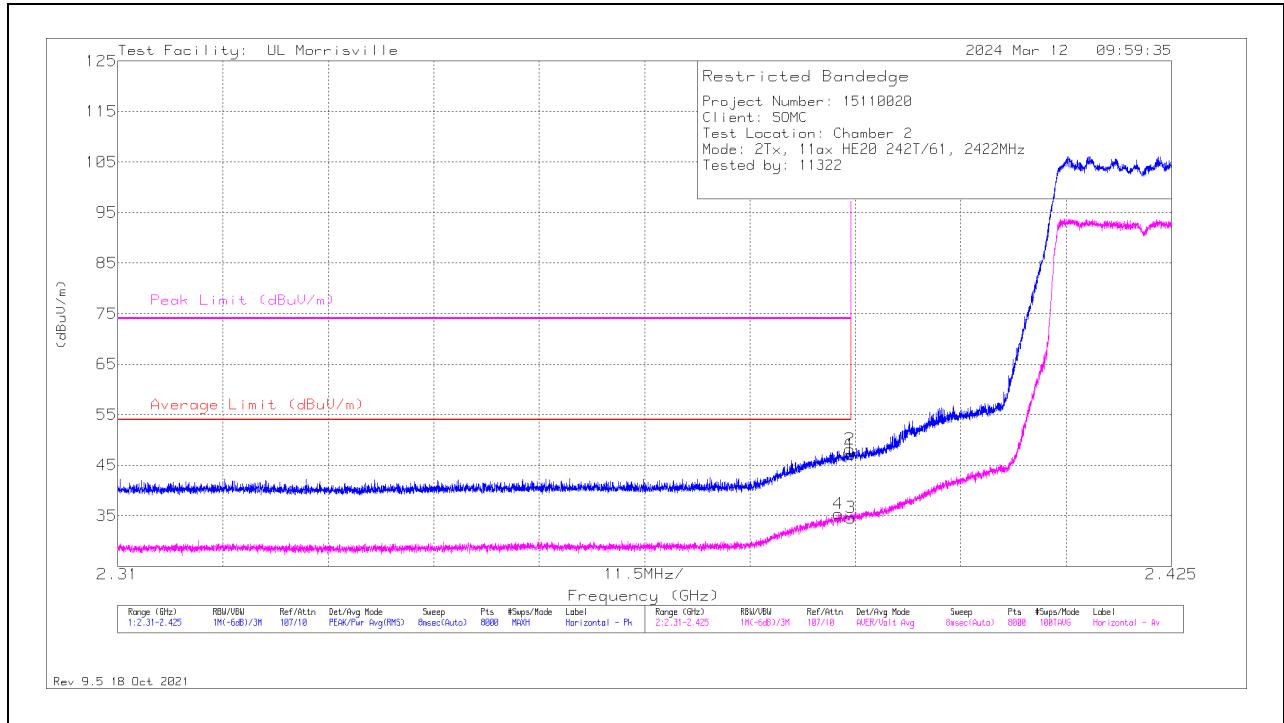


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38999	33.16	Pk	32.3	-24.2	41.26	-	-	74	-32.74	202	309	V
2	*** 2.38994	34.84	PK	32.3	-24.2	42.94	-	-	74	-31.06	202	309	V
3	*** 2.38999	22.37	ADV	32.3	-24.2	30.47	54	-23.53	-	-	202	309	V
4	*** 2.38994	22.77	ADV	32.3	-24.2	30.87	54	-23.13	-	-	202	309	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 (LOW CHANNEL 3)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38999	38.99	Pk	32.3	-24.2	0	47.09	-	-	74	-26.91	200	104	H
2	*** 2.38991	40.05	Pk	32.3	-24.2	0	48.15	-	-	74	-25.85	200	104	H
3	*** 2.38999	26.49	ADV	32.3	-24.2	0	34.59	54	-19.41	-	-	200	104	H
4	*** 2.38863	27.31	ADV	32.3	-24.2	0	35.41	54	-18.59	-	-	200	104	H

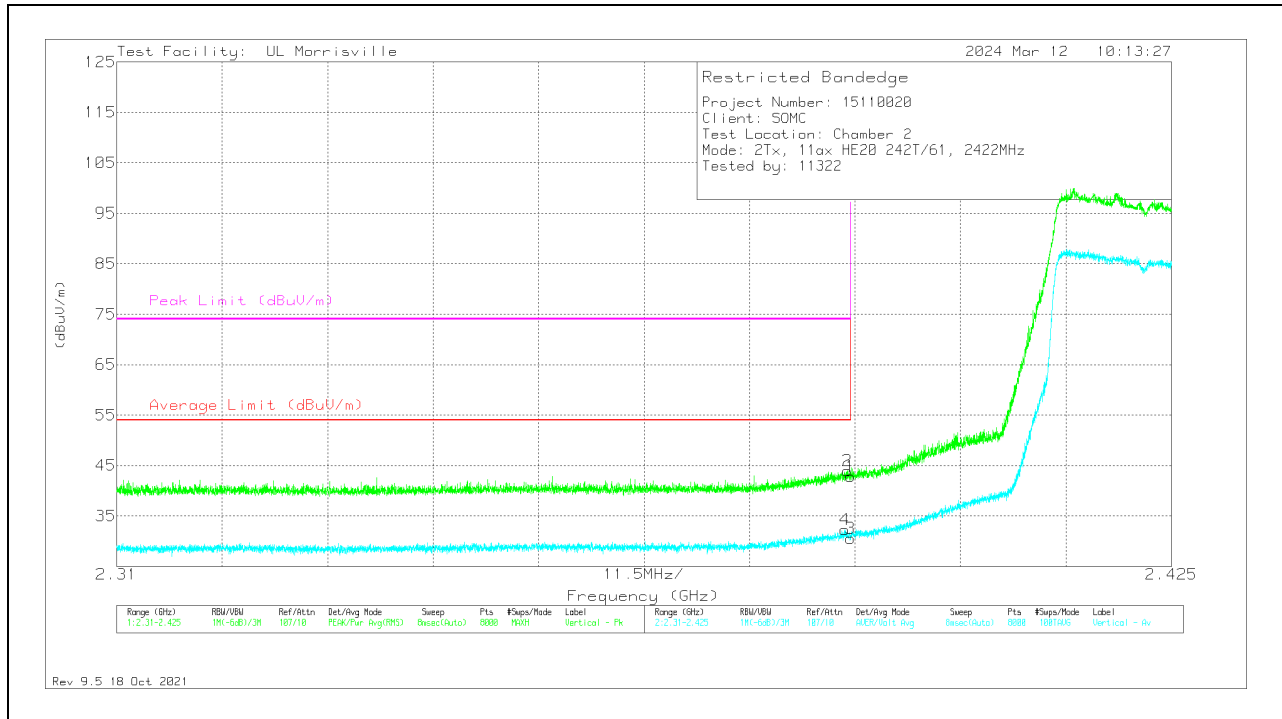
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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)	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	*** 2.38999	34.75	Pk	32.3	-24.2	0	42.85	-	-	74	-31.15	210	366	V
2	*** 2.38968	35.91	Pk	32.3	-24.2	0	44.01	-	-	74	-29.99	210	366	V
3	*** 2.38999	22.46	ADV	32.3	-24.2	0	30.56	54	-23.44	-	-	210	366	V
4	*** 2.38942	24.14	ADV	32.3	-24.2	0	32.24	54	-21.76	-	-	210	366	V

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

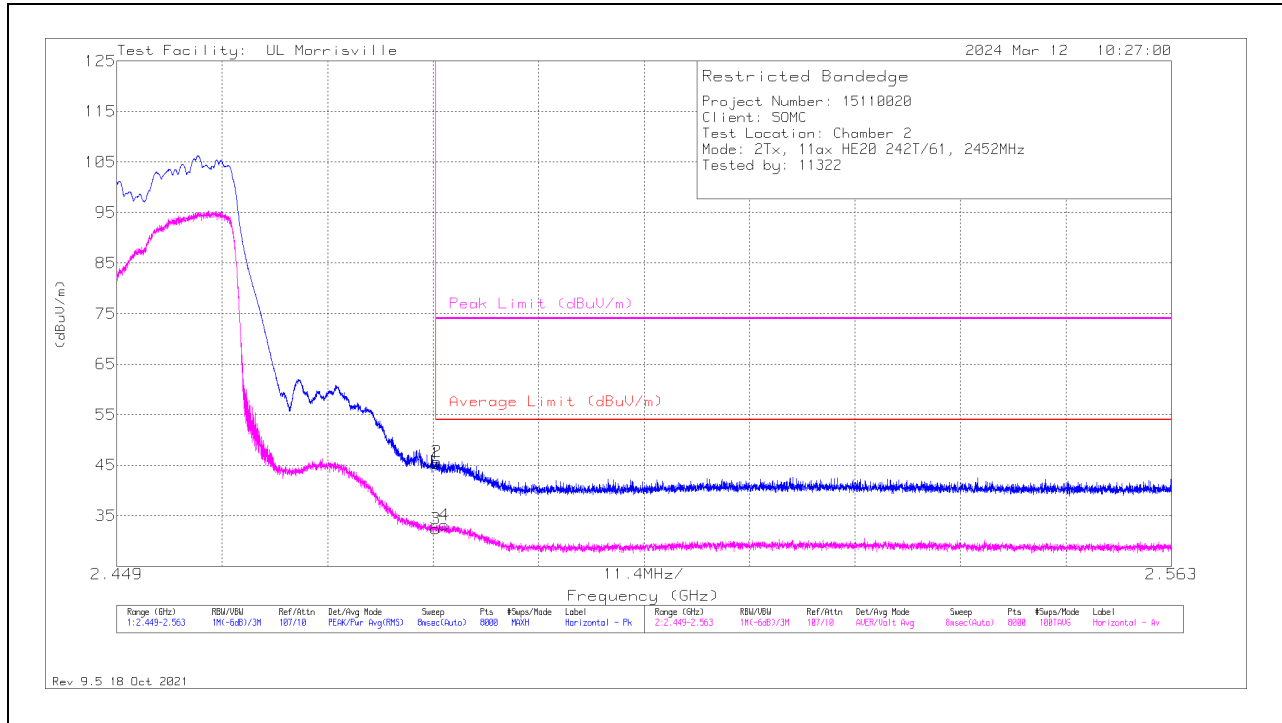
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL 9)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	37.36	Pk	32.5	-24.5	0	45.36	-	-	74	-28.64	159	341	H
2	*** 2.4836	37.73	Pk	32.5	-24.5	0	45.73	-	-	74	-28.27	159	341	H
3	*** 2.4835	24.43	ADV	32.5	-24.5	0	32.43	54	-21.57	-	-	159	340	H
4	*** 2.48444	25.15	ADV	32.5	-24.5	0	33.15	54	-20.85	-	-	159	340	H

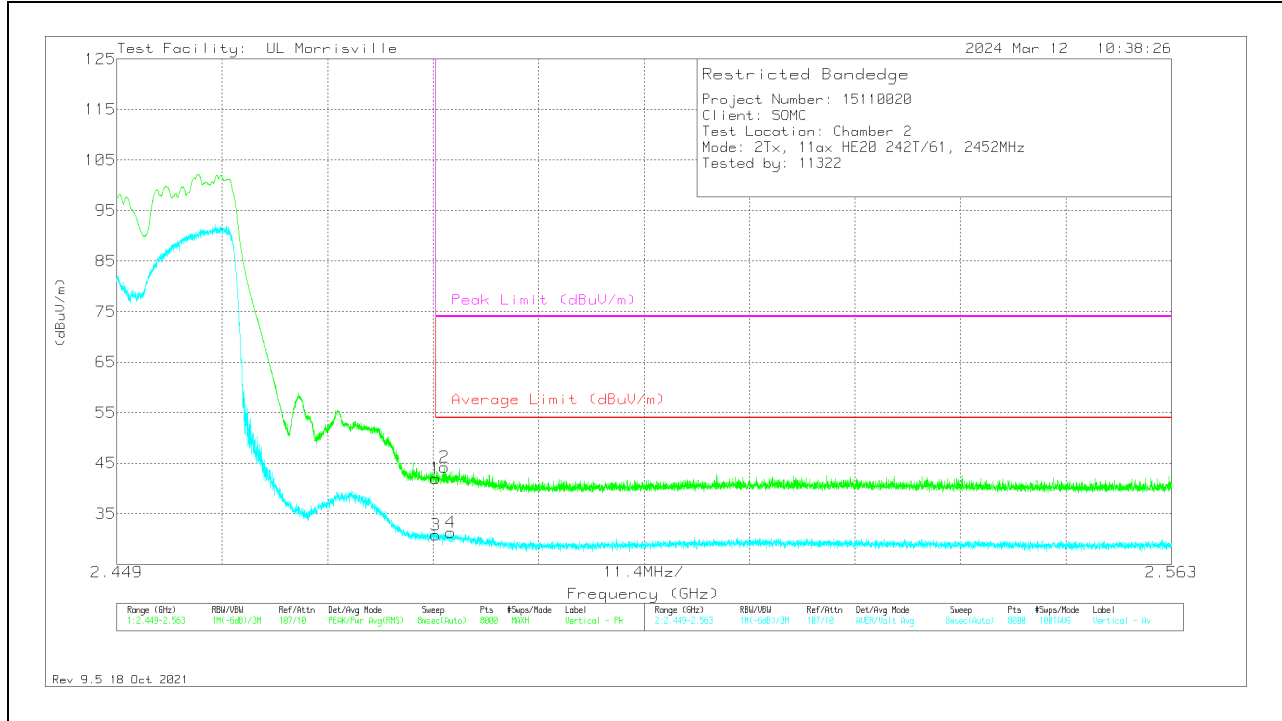
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

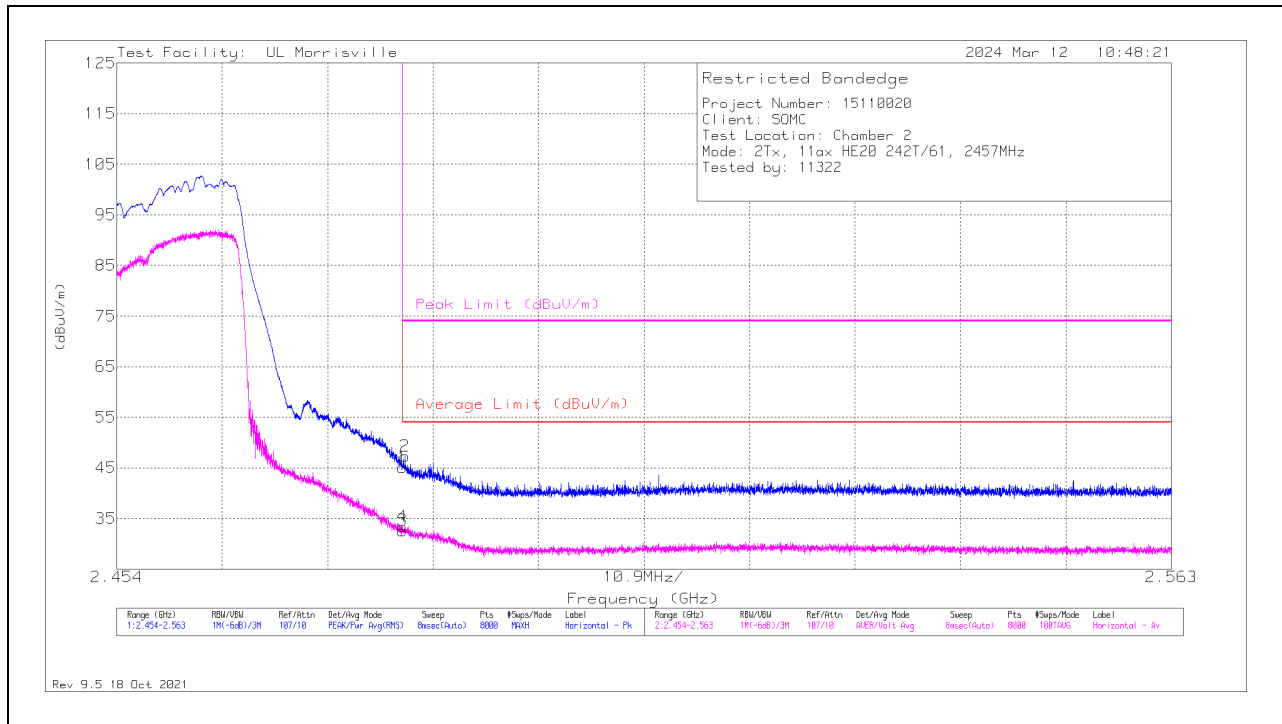


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	33.96	Pk	32.5	-24.5	41.96	-	-	74	-32.04	344	348	V
2	*** 2.48444	36.24	Pk	32.5	-24.5	44.24	-	-	74	-29.76	344	348	V
3	*** 2.4835	22.82	ADV	32.5	-24.5	30.82	54	-23.18	-	-	344	348	V
4	*** 2.48509	23.29	ADV	32.5	-24.5	31.29	54	-22.71	-	-	344	348	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 10)

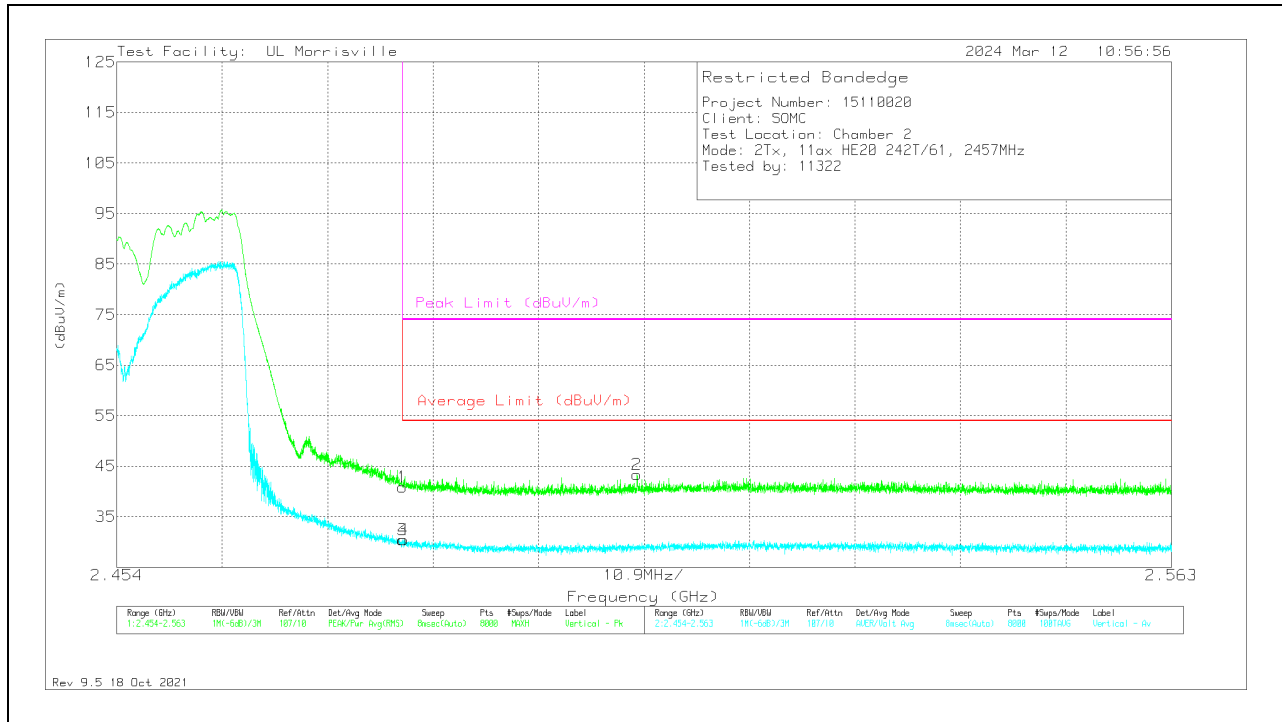
HORIZONTAL RESULT



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	*** 2.4835	37.09	Pk	32.5	-24.5	45.09	-	-	74	-28.91	160	338	H
2	*** 2.48379	39.34	Pk	32.5	-24.5	47.34	-	-	74	-26.66	160	338	H
3	*** 2.4835	24.6	ADV	32.5	-24.5	32.6	54	-21.4	-	-	160	338	H
4	*** 2.48352	25.4	ADV	32.5	-24.5	33.4	54	-20.6	-	-	160	338	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

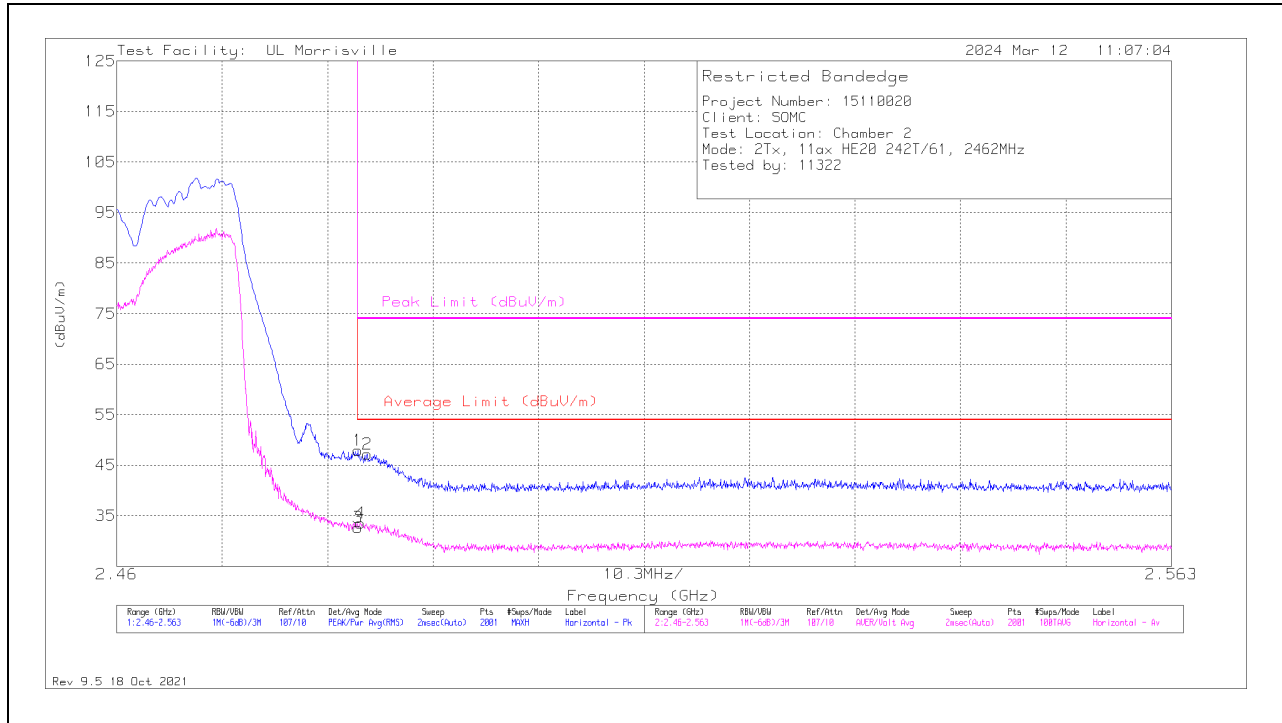


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	32.88	Pk	32.5	-24.5	40.88	-	-	74	-33.12	163	375	V
2	** 2.50777	35.57	Pk	32.5	-24.7	43.37	-	-	74	-30.63	163	375	V
3	*** 2.4835	22.42	ADV	32.5	-24.5	30.42	54	-23.58	-	-	163	375	V
4	*** 2.48363	22.41	ADV	32.5	-24.5	30.41	54	-23.59	-	-	163	375	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 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	39.95	Pk	32.5	-24.5	47.95	-	-	74	-26.05	150	210	H
2	*** 2.48446	39.15	Pk	32.5	-24.5	47.15	-	-	74	-26.85	150	210	H
3	*** 2.48354	24.7	ADV	32.5	-24.5	32.7	54	-21.3	-	-	150	210	H
4	*** 2.48379	25.54	ADV	32.5	-24.5	33.54	54	-20.46	-	-	150	210	H

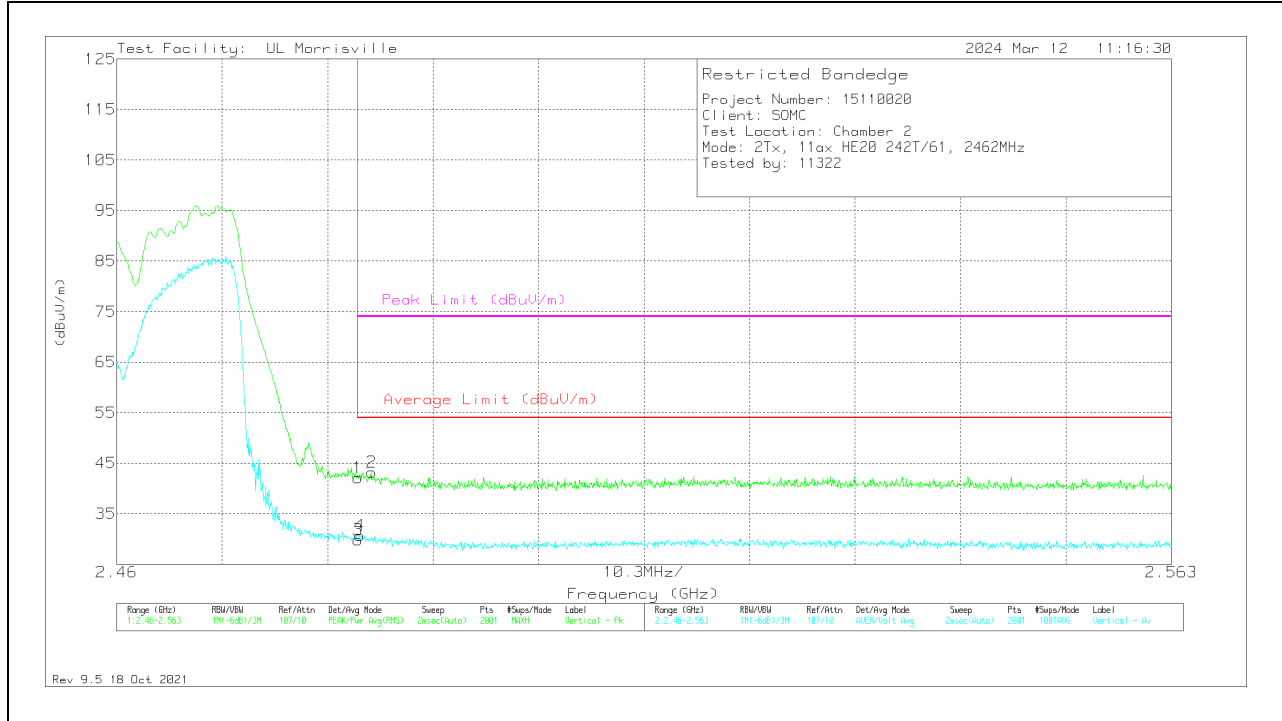
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



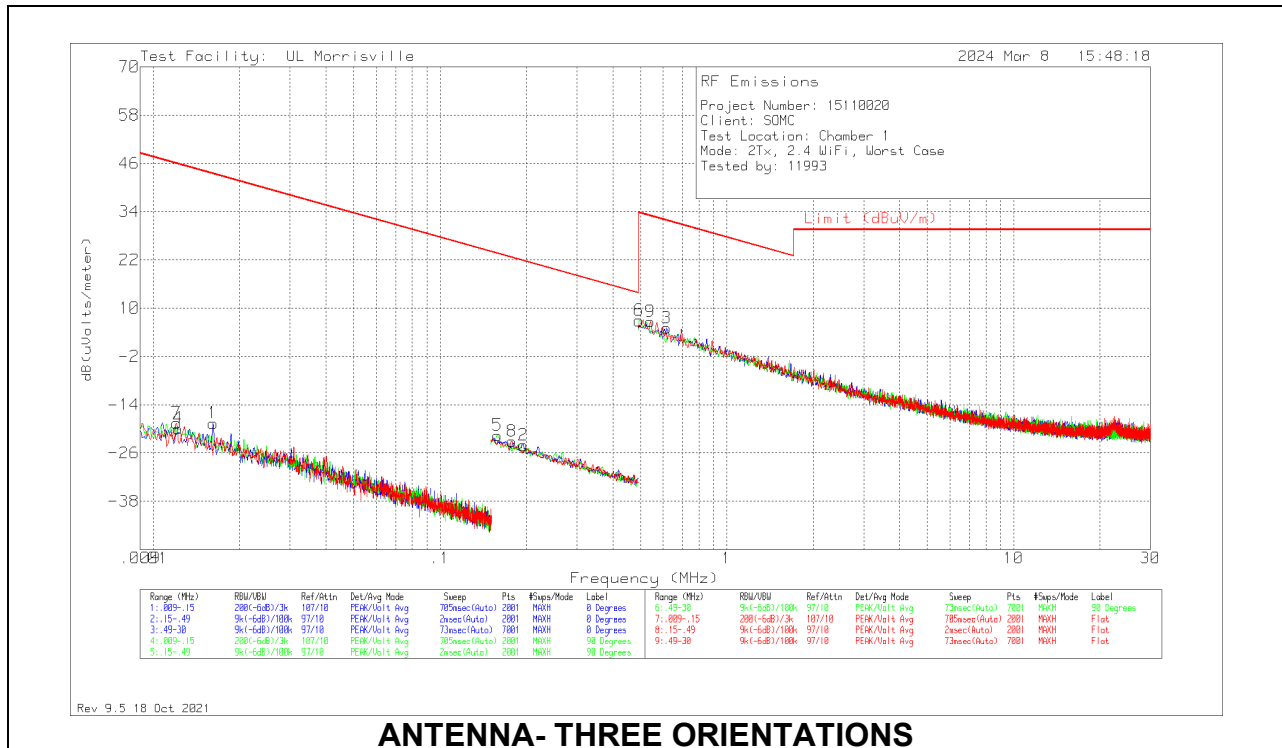
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	34.12	Pk	32.5	-24.5	42.12	-	-	74	-31.88	346	334	V
2	* ** 2.48487	35.25	Pk	32.5	-24.5	43.25	-	-	74	-30.75	346	334	V
3	* ** 2.48354	21.75	ADV	32.5	-24.5	29.75	54	-24.25	-	-	346	334	V
4	* ** 2.48374	22.73	ADV	32.5	-24.5	30.73	54	-23.27	-	-	346	334	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 for below 30 MHz scans: 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).



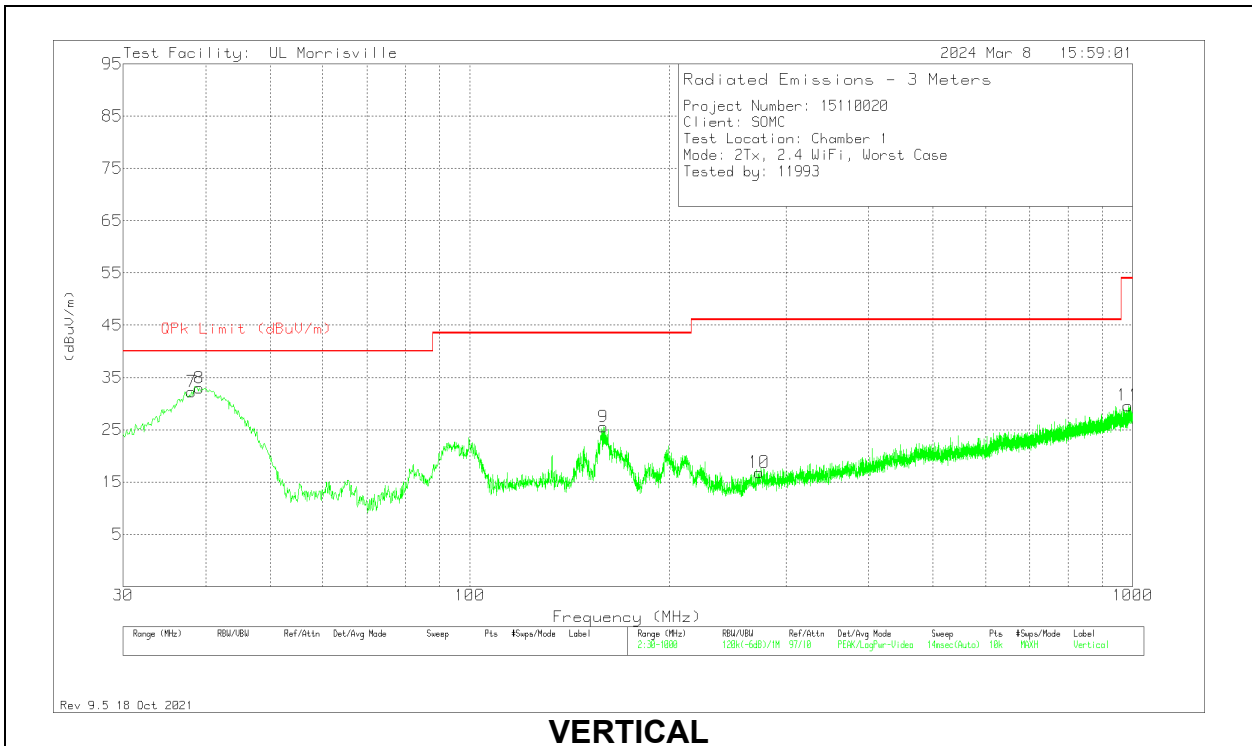
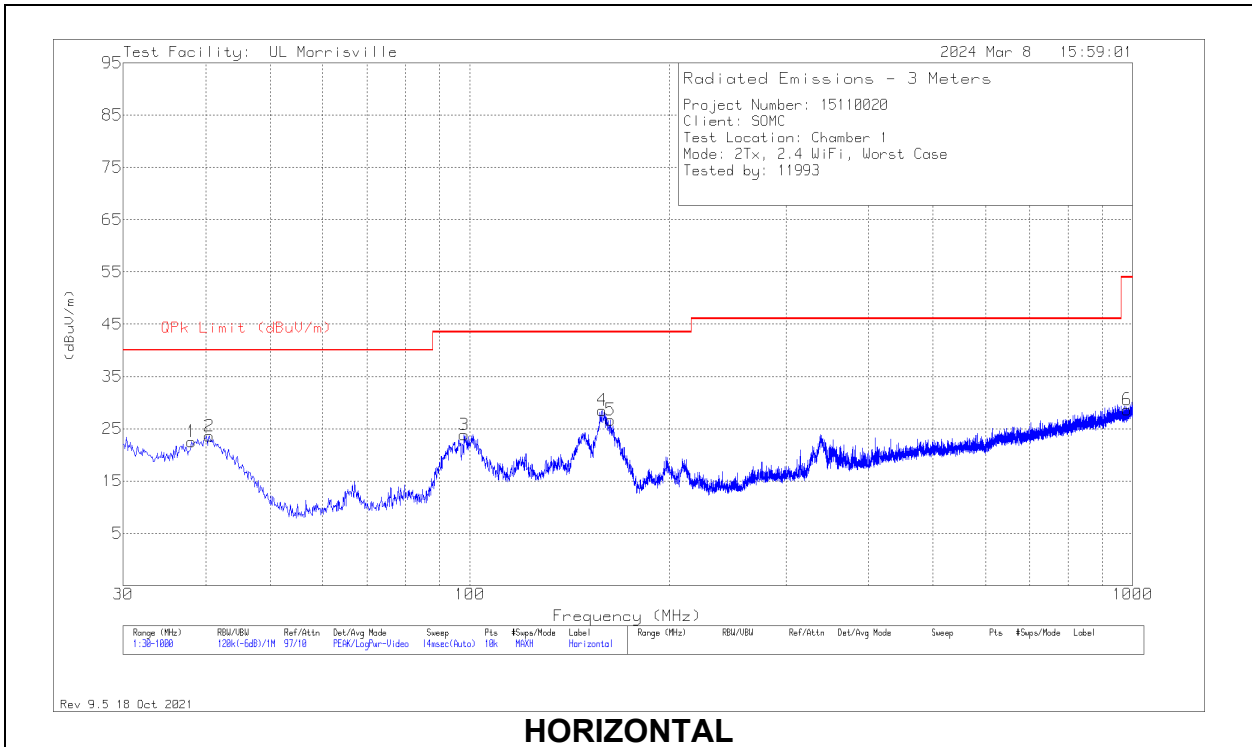
ANTENNA- THREE ORIENTATIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (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
7	.01205	43.73	Pk	17.6	.1	-80	-18.57	45.98	65.98	-64.55	0-360	Flat
4	.0122	42.53	Pk	17.5	.1	-80	-19.87	45.88	65.88	-65.75	0-360	90 degs
1	.01617	45.61	Pk	15.7	.1	-80	-18.59	43.43	63.34	-62.02	0-360	0 degs
5	.15859	47.18	Pk	11.1	.1	-80	-21.62	23.6	43.6	-45.22	0-360	90 degs
8	.17805	45.7	Pk	11.1	.1	-80	-23.1	22.59	42.59	-45.69	0-360	Flat
2	.19522	44.71	Pk	11.1	.1	-80	-24.09	21.79	41.79	-45.88	0-360	0 degs
6	.49422	35.73	Pk	11.1	.1	-40	6.93	33.73	-	-26.8	0-360	90 degs
9	.54059	35.46	Pk	11.1	.1	-40	6.66	32.95	-	-26.29	0-360	Flat
3	.61648	33.76	Pk	11.2	.1	-40	5.06	31.81	-	-26.75	0-360	0 degs

Pk - Peak detector

10.3. WORST CASE BELOW 1 GHZ

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

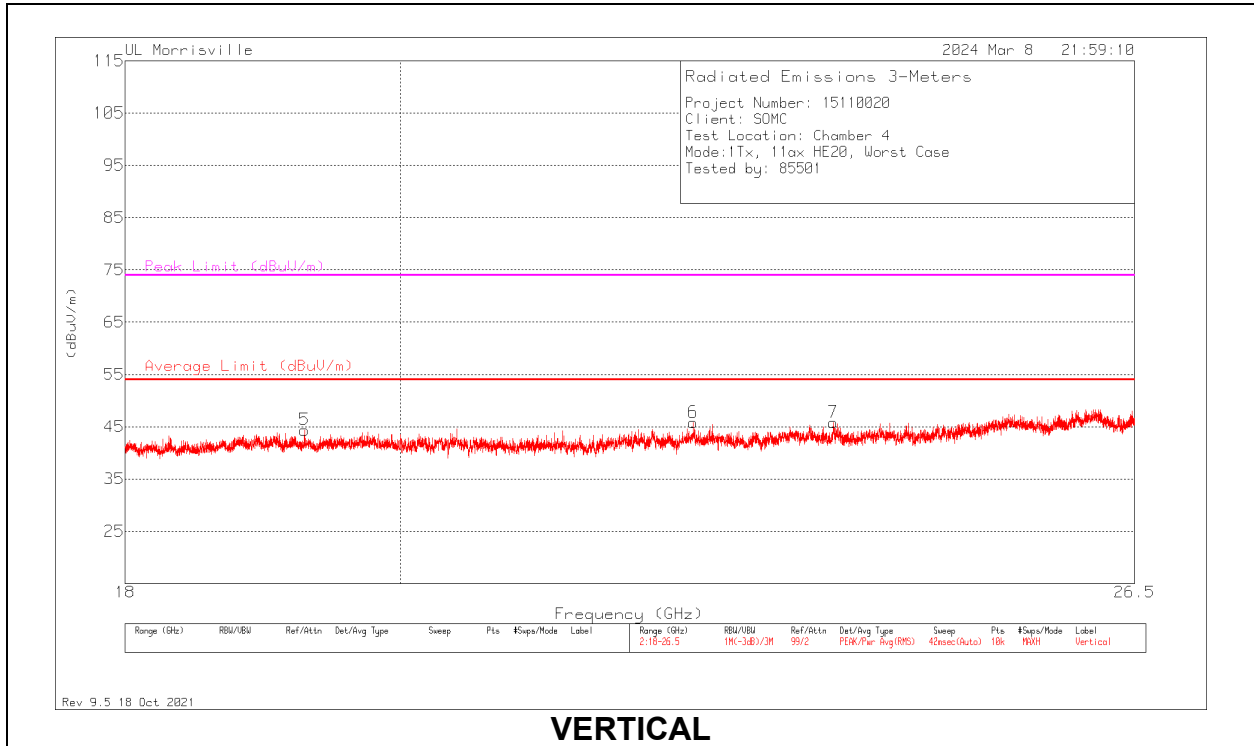
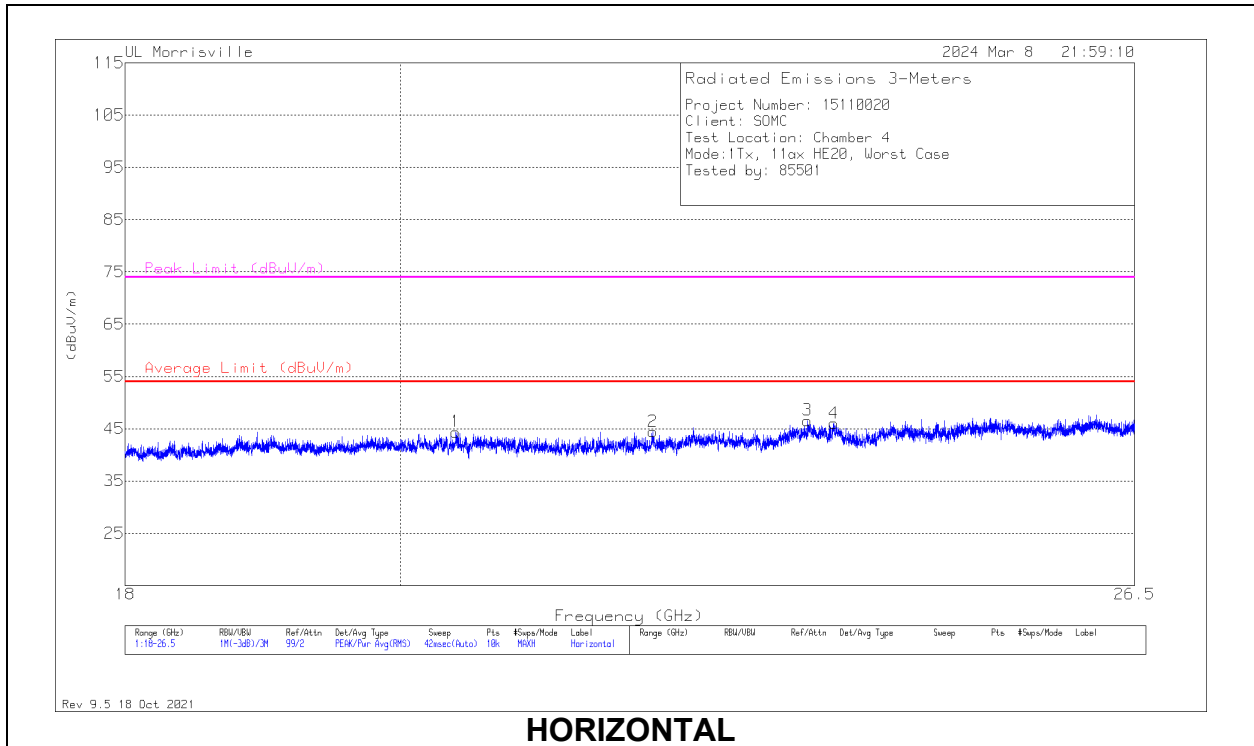


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 38.051	33.02	Pk	21.2	-31.7	22.52	40	-17.48	0-360	299	H
5	* ** 163.1325	38.38	Pk	18.5	-30.2	26.68	43.52	-16.84	0-360	199	H
6	* ** 980.6	24.71	Pk	29.2	-25.3	28.61	53.97	-25.36	0-360	199	H
7	* ** 38.051	42.73	Pk	21.2	-31.7	32.23	40	-7.77	0-360	100	V
10	* ** 273.179	26.93	Pk	19.4	-29.5	16.83	46.02	-29.19	0-360	100	V
11	* ** 984.48	25.64	Pk	29.3	-25.3	29.64	53.97	-24.33	0-360	100	V
8	39.118	44.06	Pk	20.4	-31.5	32.96	-	-	0-360	100	V
2	40.476	35.58	Pk	19.5	-31.5	23.58	-	-	0-360	199	H
3	98.094	38.33	Pk	16.2	-30.7	23.83	-	-	0-360	299	H
4	158.331	40.72	Pk	18.4	-30.6	28.52	-	-	0-360	299	H
9	159.107	37.54	Pk	18.5	-30.5	25.54	-	-	0-360	100	V

* - 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)



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	* ** 20.43076	50.2	Pk	33.6	-39.4	44.4	54	-9.6	74	-29.6	0-360	150	H
2	* ** 22.0337	49.24	Pk	34.2	-39	44.44	54	-9.56	74	-29.56	0-360	200	H
4	* ** 23.61539	47.64	Pk	34.6	-36.2	46.04	54	-7.96	74	-27.96	0-360	100	H
5	* ** 19.28082	51.09	Pk	33.3	-40	44.39	54	-9.61	74	-29.61	0-360	300	V
6	* ** 22.37621	49.73	Pk	34.1	-38	45.83	54	-8.17	74	-28.17	0-360	200	V
7	* ** 23.61029	47.34	Pk	34.6	-36.1	45.84	54	-8.16	74	-28.16	0-360	300	V
3	23.37911	49.59	Pk	34.6	-37.6	46.59	54	-7.41	74	-27.41	0-360	100	H

* - 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.

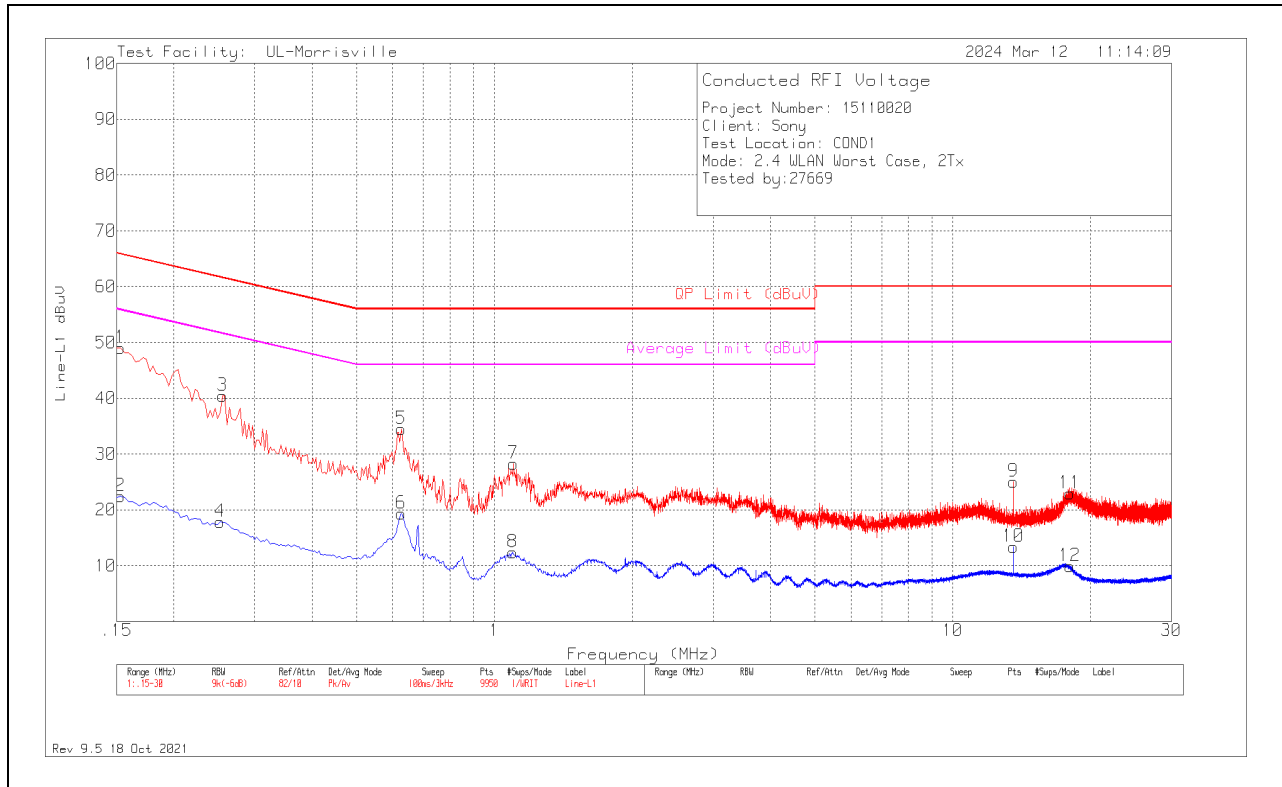
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1.1. AC Power Line Host

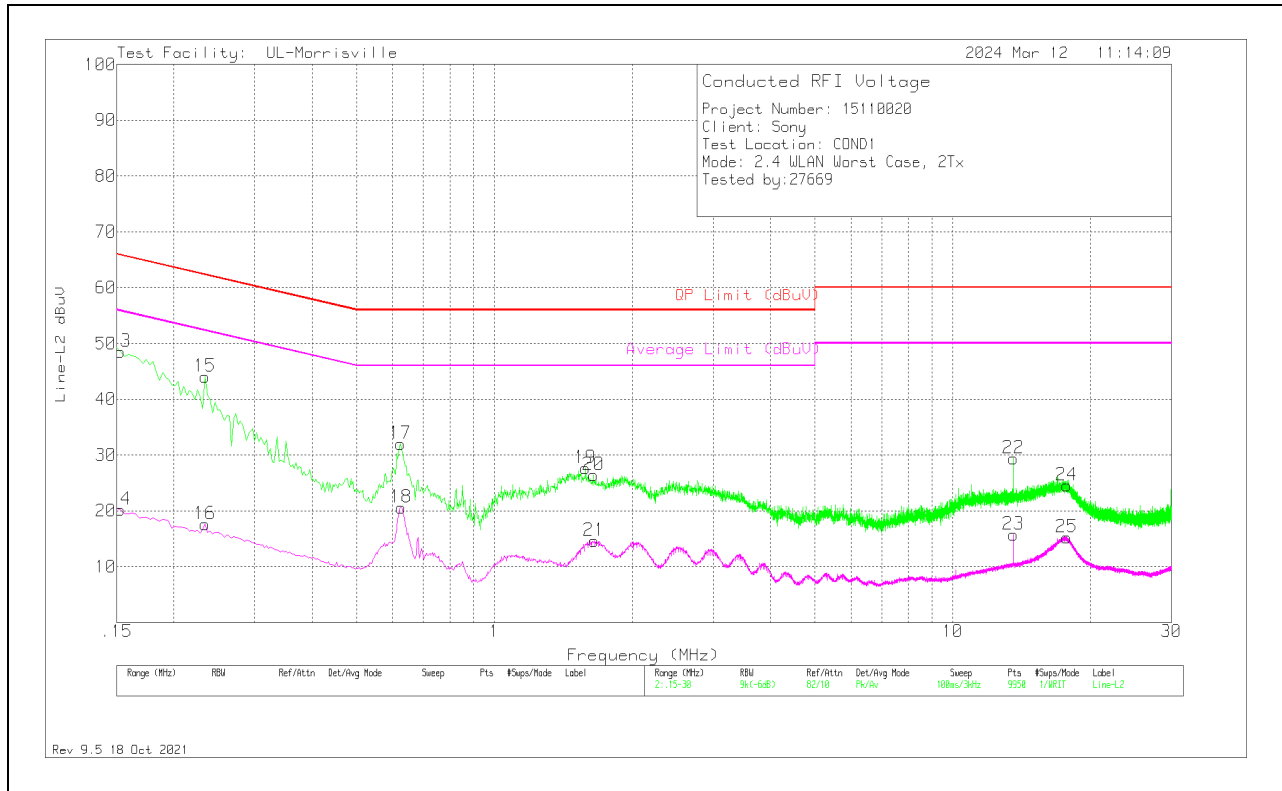
LINE 1 RESULTS



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	.153	38.91	Pk	.3	9.8	49.01	65.84	-16.83	-	-
2	.153	12.31	Av	.3	9.8	22.41	-	-	55.84	-33.43
4	.252	7.85	Av	.2	9.8	17.85	-	-	51.69	-33.84
3	.255	30.49	Pk	.2	9.8	40.49	61.59	-21.1	-	-
5	.627	24.59	Pk	.1	9.8	34.49	56	-21.51	-	-
6	.627	9.43	Av	.1	9.8	19.33	-	-	46	-26.67
8	1.095	2.48	Av	.1	9.8	12.38	-	-	46	-33.62
7	1.101	18.41	Pk	.1	9.8	28.31	56	-27.69	-	-
9	13.563	14.9	Pk	.2	10	25.1	60	-34.9	-	-
10	13.563	3.16	Av	.2	10	13.36	-	-	50	-36.64
11	17.997	12.59	Pk	.2	10.1	22.89	60	-37.11	-	-
12	18.015	-36	Av	.2	10.1	9.94	-	-	50	-40.06

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	.153	38.36	Pk	.3	9.8	48.46	65.84	-17.38	-	-
14	.153	10.11	Av	.3	9.8	20.21	-	-	55.84	-35.63
15	.234	34.08	Pk	.2	9.8	44.08	62.31	-18.23	-	-
16	.234	7.65	Av	.2	9.8	17.65	-	-	52.31	-34.66
17	.624	22.13	Pk	.1	9.8	32.03	56	-23.97	-	-
18	.627	10.68	Av	.1	9.8	20.58	-	-	46	-25.42
19	1.581	17.78	Pk	.1	9.8	27.68	56	-28.32	-	-
20	1.644	16.46	Pk	.1	9.8	26.36	56	-29.64	-	-
21	1.65	4.69	Av	.1	9.8	14.59	-	-	46	-31.41
22	13.56	19.15	Pk	.2	10	29.35	60	-30.65	-	-
23	13.563	5.5	Av	.2	10	15.7	-	-	50	-34.3
24	17.715	14.28	Pk	.2	10.1	24.58	60	-35.42	-	-
25	17.715	4.91	Av	.2	10.1	15.21	-	-	50	-34.79

Pk - Peak detector
 Av - Average detection

12. SETUP PHOTOS

Please refer to R15110020-EP3 for setup photos

END OF TEST REPORT