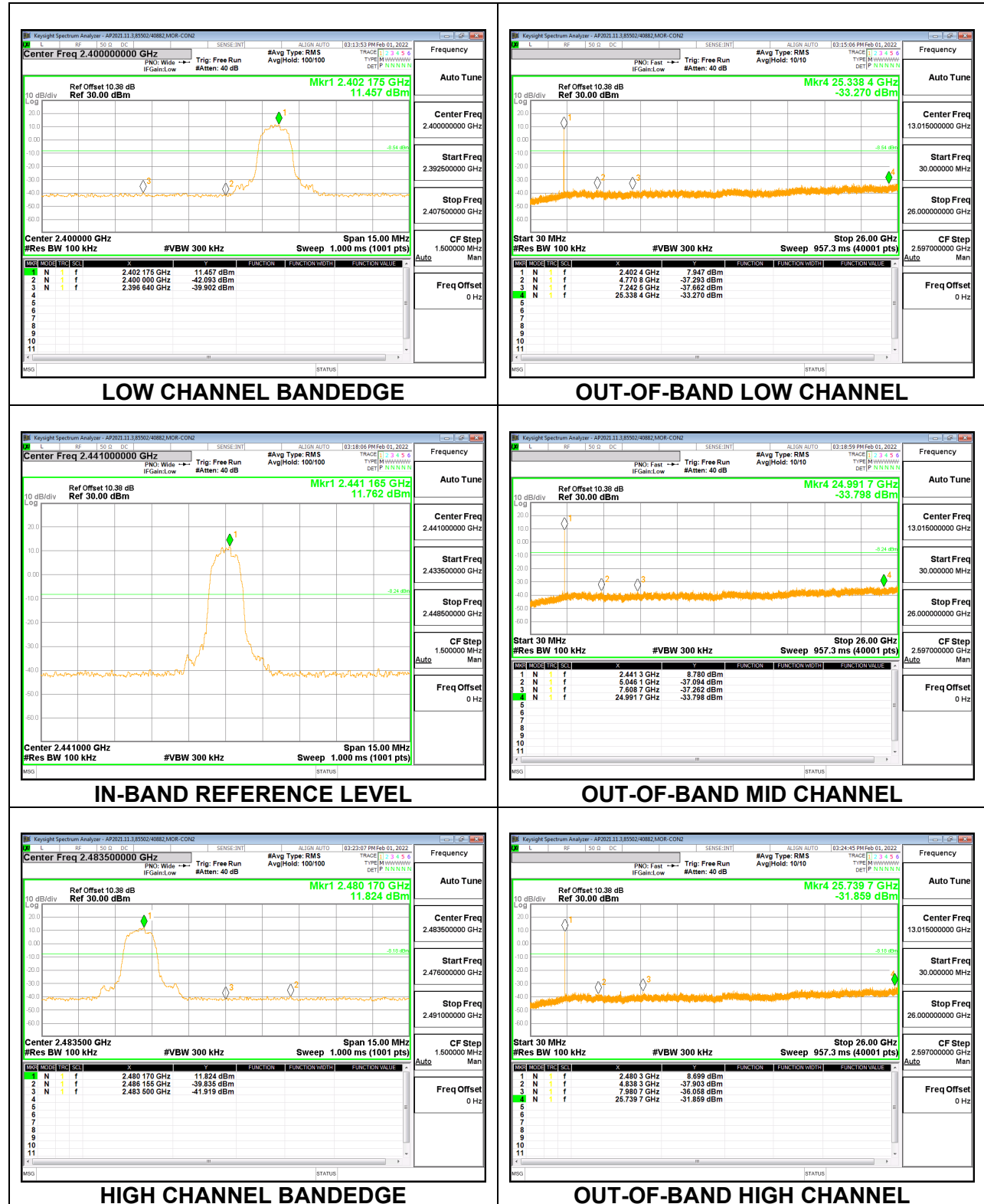
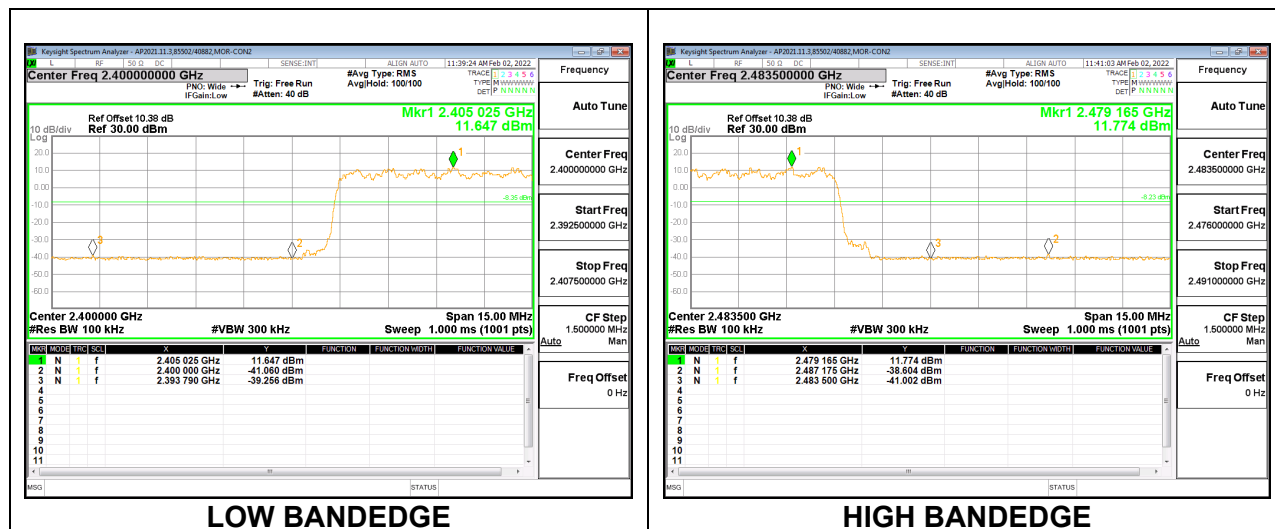


Chain 1 SPURIOUS EMISSIONS, NON-HOPPING



Chain 1 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



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 3MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements.

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

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

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.

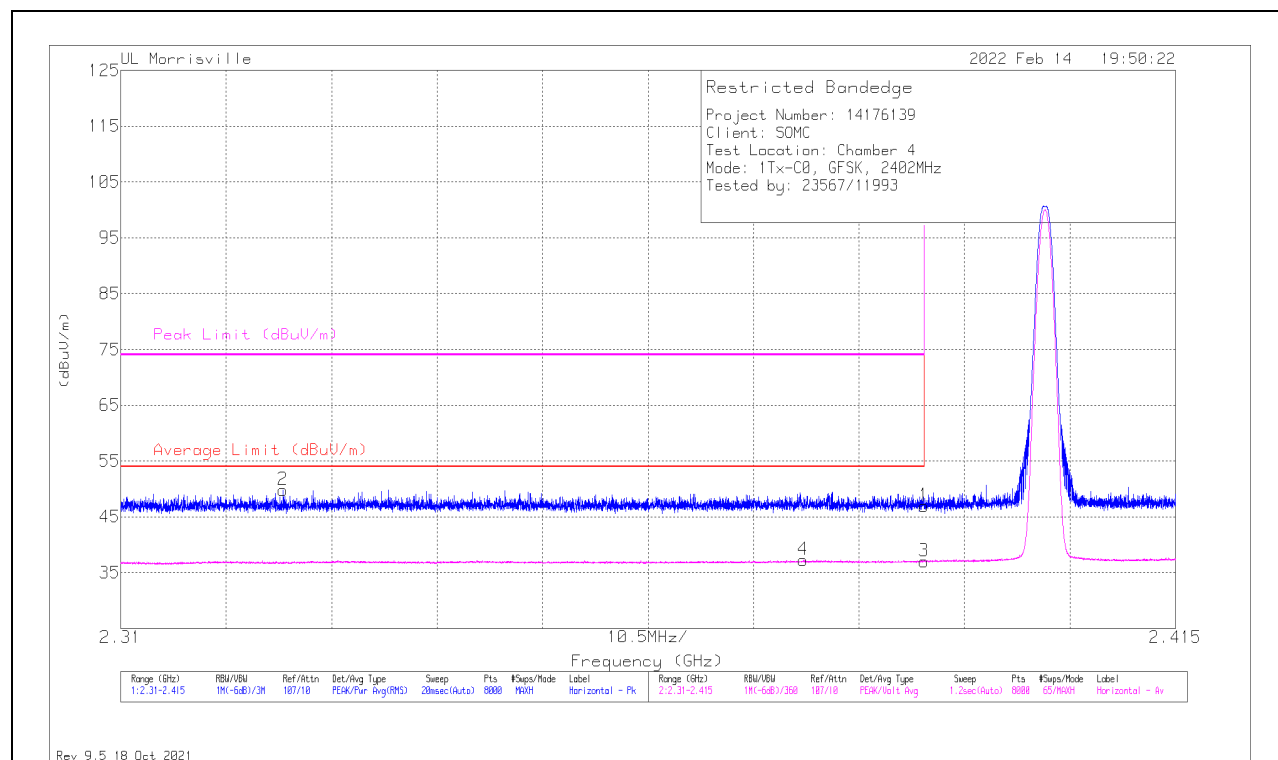
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BLUETOOTH BASIC DATA RATE GFSK MODULATION

Chain 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	41.73	Pk	32	-26.8	46.93	-	-	74	-27.07	151	111	H
2	* ** 2.32616	44.68	Pk	31.9	-26.8	49.78	-	-	74	-24.22	151	111	H
3	* ** 2.39	31.81	V1TV	32	-26.8	37.01	54	-16.99	-	-	151	111	H
4	* ** 2.37793	32.08	V1TV	32	-26.8	37.28	54	-16.72	-	-	151	111	H

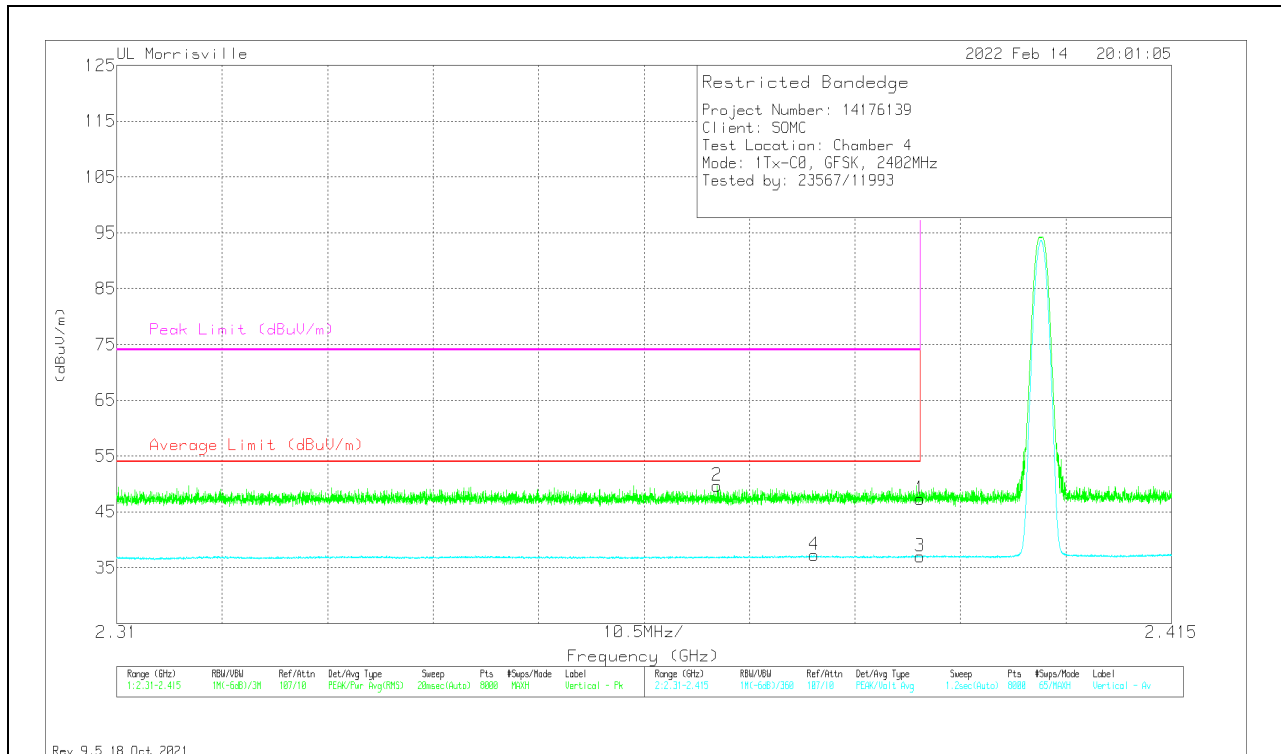
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	42.15	Pk	32	-26.8	47.35	-	-	74	-26.65	71	111	V
2	* ** 2.36979	44.52	Pk	32	-26.8	49.72	-	-	74	-24.28	71	111	V
3	* ** 2.39	31.76	V1TV	32	-26.8	36.96	54	-17.04	-	-	71	111	V
4	* ** 2.37944	32.04	V1TV	32	-26.8	37.24	54	-16.76	-	-	71	111	V

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

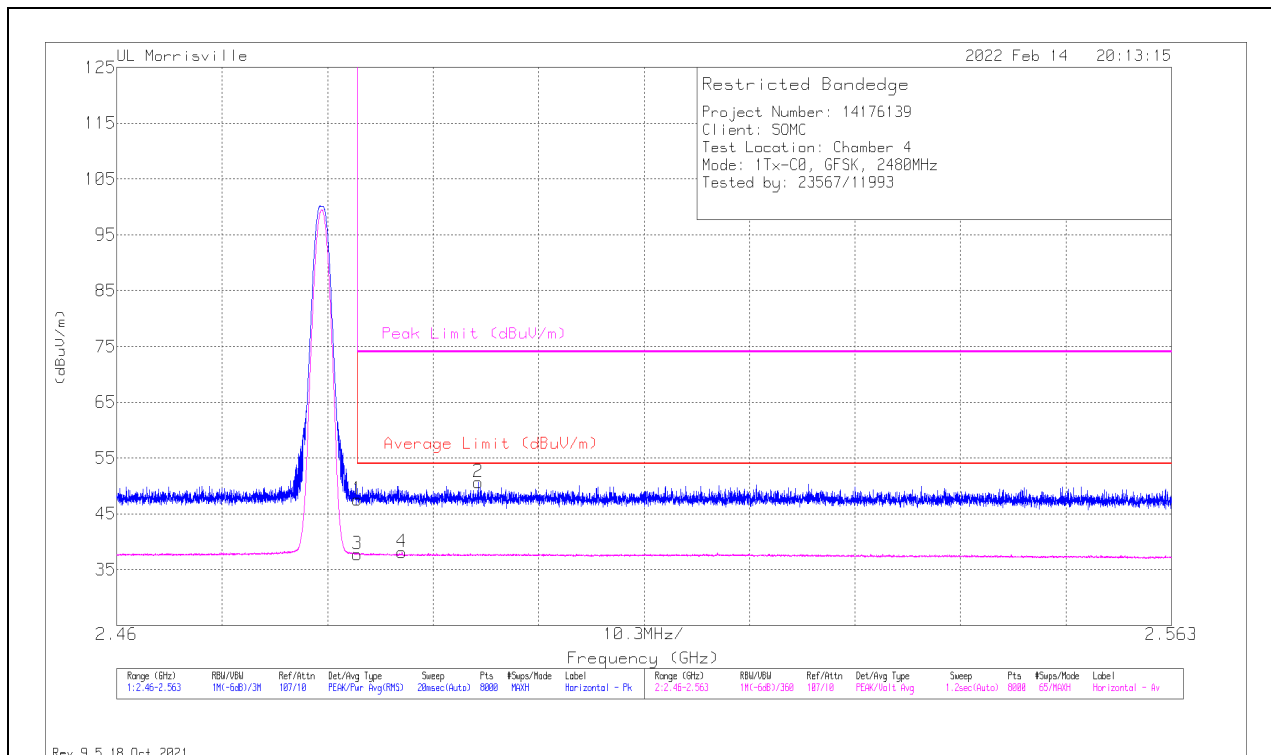
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	41.84	Pk	32.6	-26.9	47.54	-	-	74	-26.46	109	102	H
2	* ** 2.49528	44.99	Pk	32.6	-26.9	50.69	-	-	74	-23.31	109	102	H
3	* ** 2.4835	32.07	V1TV	32.6	-26.9	37.77	54	-16.23	-	-	109	102	H
4	* ** 2.48787	32.37	V1TV	32.6	-26.9	38.07	54	-15.93	-	-	109	102	H

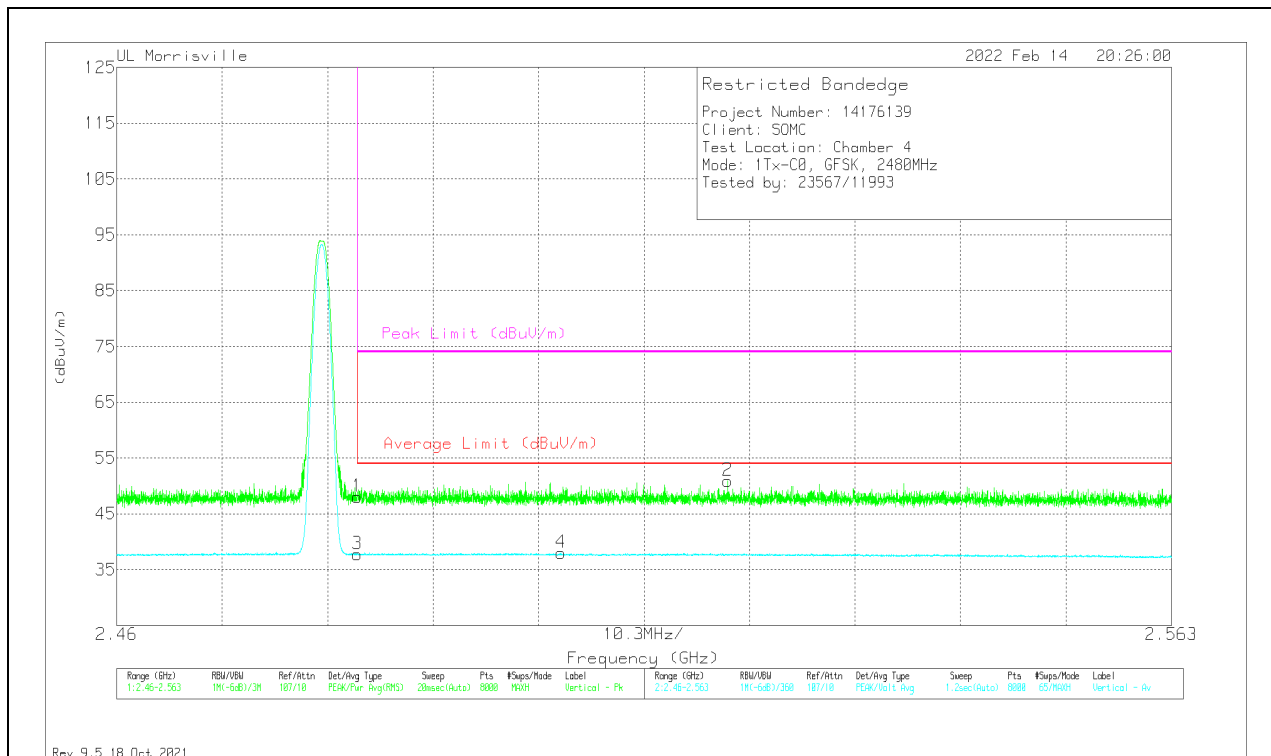
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	42.39	Pk	32.6	-26.9	48.09	-	-	74	-25.91	28	103	V
2	** 2.51968	45.26	Pk	32.6	-26.9	50.96	-	-	74	-23.04	28	103	V
3	* ** 2.4835	32.08	V1TV	32.6	-26.9	37.78	54	-16.22	-	-	28	103	V
4	** 2.50336	32.19	V1TV	32.6	-26.8	37.99	54	-16.01	-	-	28	103	V

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

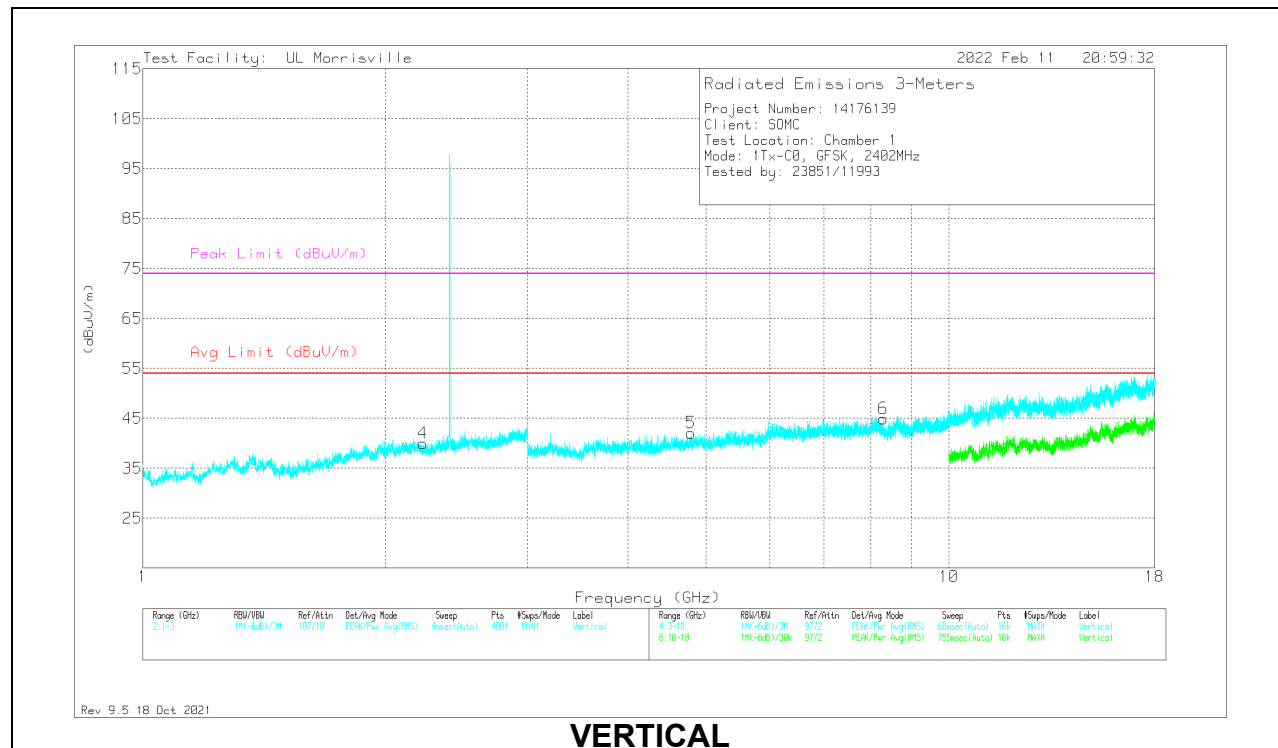
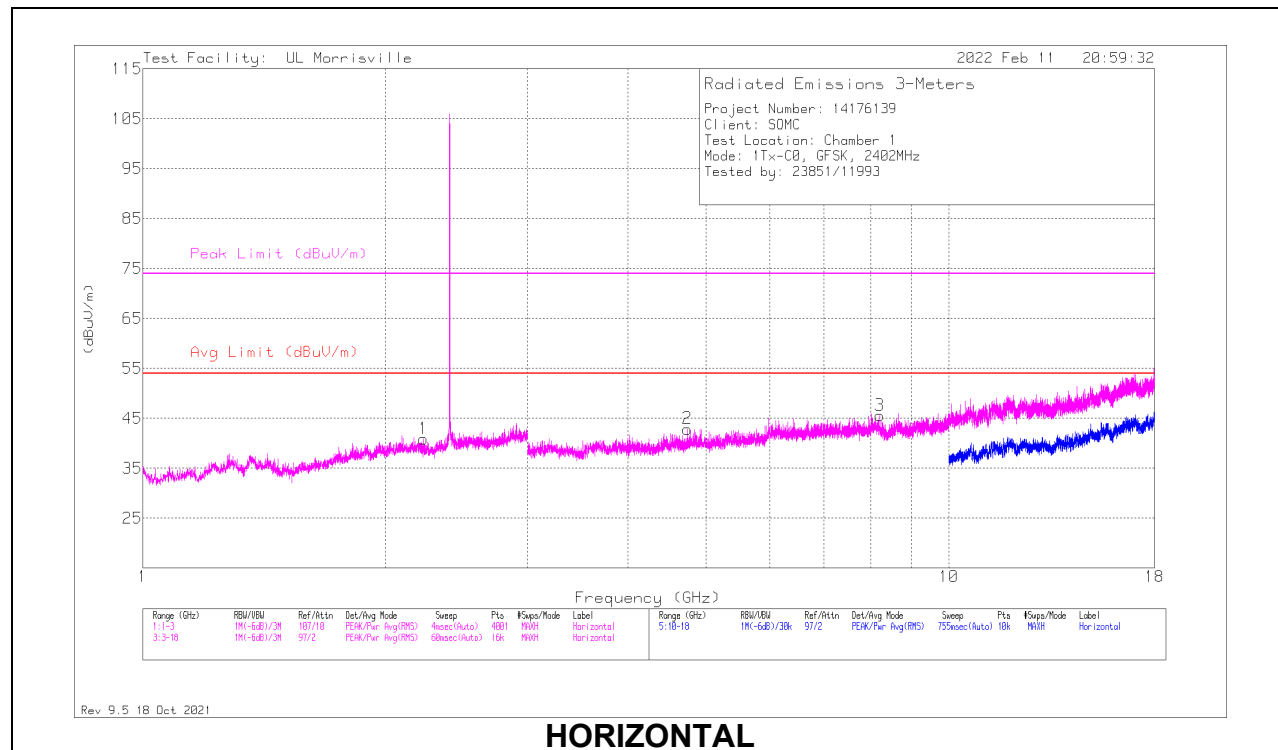
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

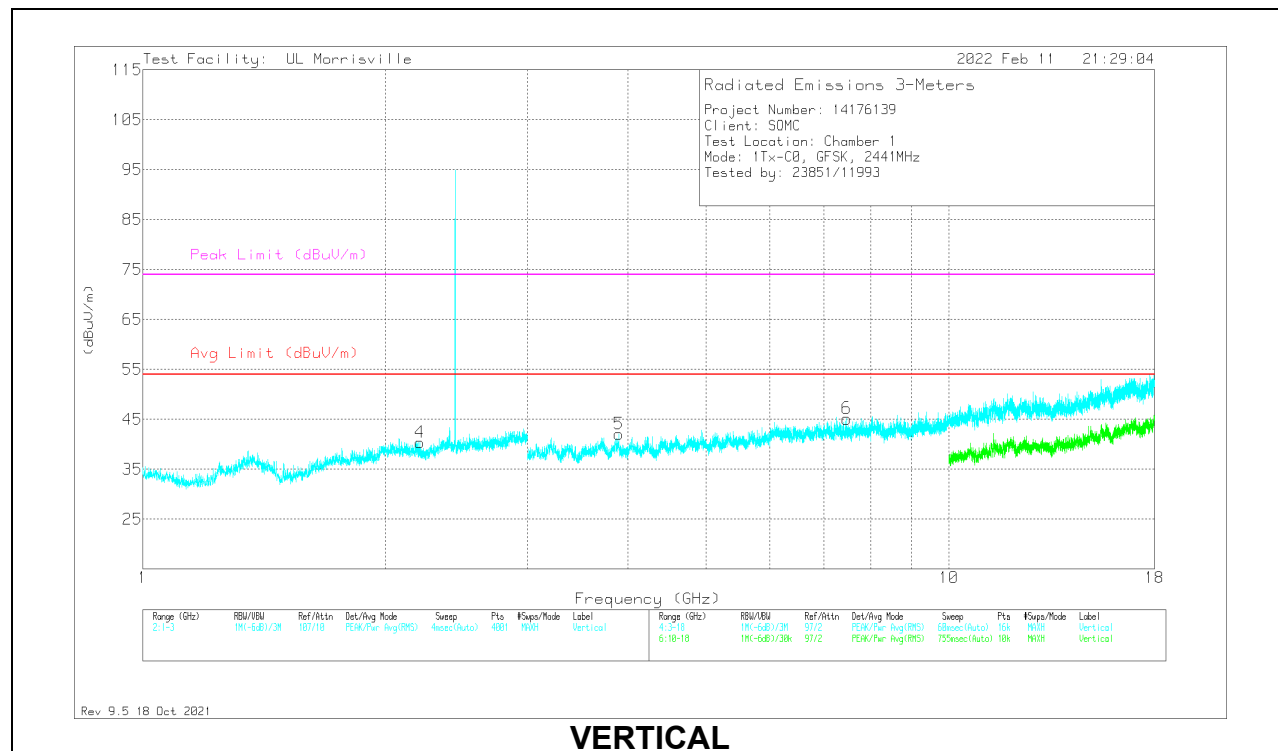
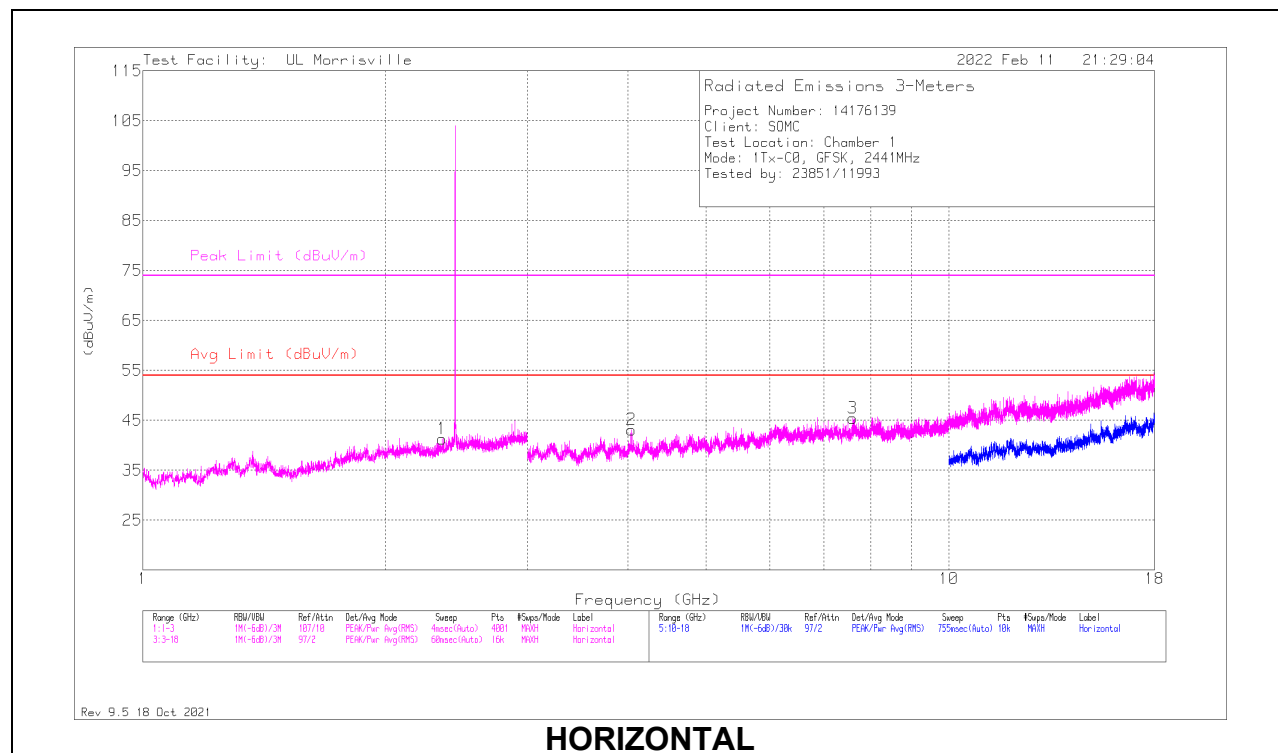
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.228	33.69	Pk	31.7	-24.5	40.89	54	-13.11	74	-33.11	0-360	200	H
4	* ** 2.2245	32.88	Pk	31.8	-24.7	39.98	54	-14.02	74	-34.02	0-360	200	V
2	* ** 4.74188	41.21	Pk	33.9	-32.2	42.91	54	-11.09	74	-31.09	0-360	101	H
3	* ** 8.20875	38.8	Pk	35.7	-28.9	45.6	54	-8.4	74	-28.4	0-360	101	H
5	* ** 4.785	39.79	Pk	33.9	-31.6	42.09	54	-11.91	74	-31.91	0-360	101	V
6	* ** 8.29781	38.07	Pk	35.7	-28.8	44.97	54	-9.03	74	-29.03	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

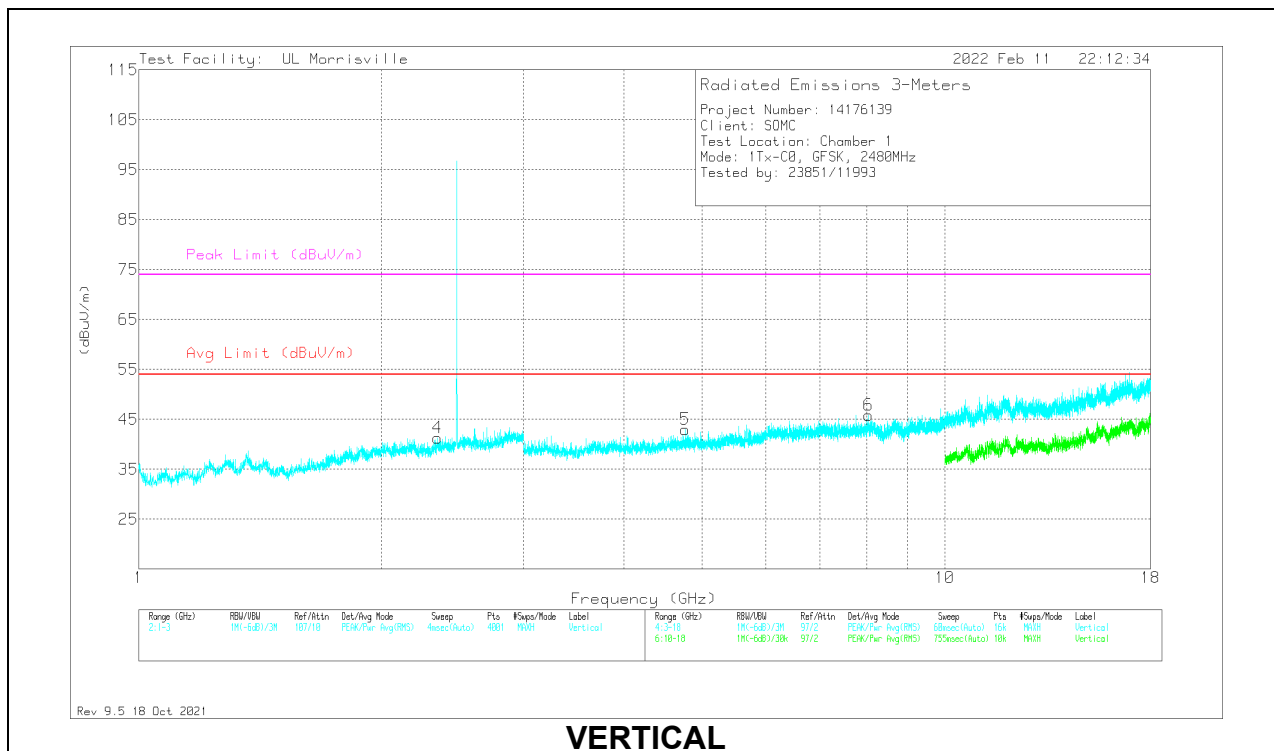
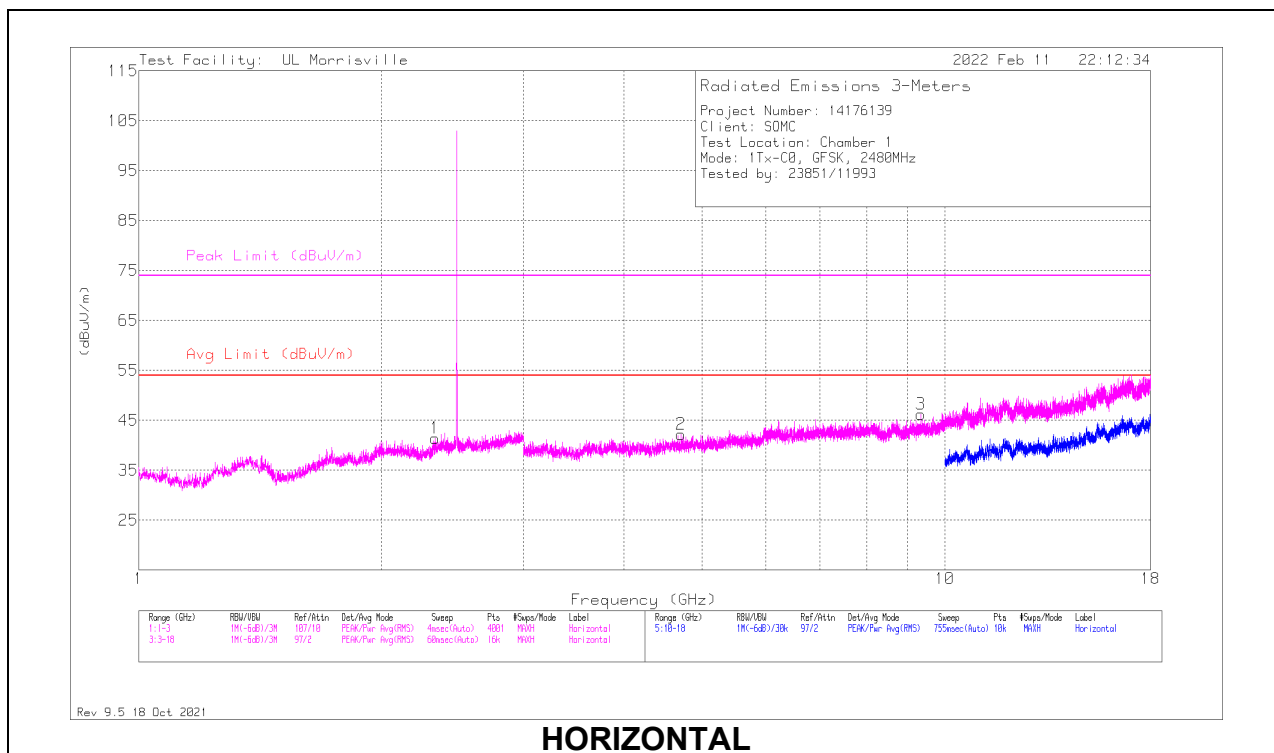
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.353	33.67	Pk	32.2	-24.6	41.27	54	-12.73	74	-32.73	0-360	101	H
4	* ** 2.2085	33.06	Pk	31.9	-24.6	40.36	54	-13.64	74	-33.64	0-360	101	V
2	* ** 4.03969	42.21	Pk	33.2	-32.3	43.11	54	-10.89	74	-30.89	0-360	200	H
3	* ** 7.60125	38.99	Pk	35.7	-29.3	45.39	54	-8.61	74	-28.61	0-360	200	H
5	* ** 3.89813	39.76	Pk	33.3	-31	42.06	54	-11.94	74	-31.94	0-360	200	V
6	* ** 7.46438	38.52	Pk	35.6	-29	45.12	54	-8.88	74	-28.88	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 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.3305	33.82	Pk	31.9	-24.3	41.42	54	-12.58	74	-32.58	0-360	101	H
4	* ** 2.348	33.54	Pk	32.1	-24.4	41.24	54	-12.76	74	-32.76	0-360	200	V
2	* ** 4.70625	40.07	Pk	34	-31.9	42.17	54	-11.83	74	-31.83	0-360	200	H
3	* ** 9.3375	38.27	Pk	36.3	-28.4	46.17	54	-7.83	74	-27.83	0-360	101	H
5	* ** 4.76156	40.83	Pk	33.9	-31.8	42.93	54	-11.07	74	-31.07	0-360	200	V
6	* ** 8.04844	38.48	Pk	35.7	-28.4	45.78	54	-8.22	74	-28.22	0-360	101	V

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

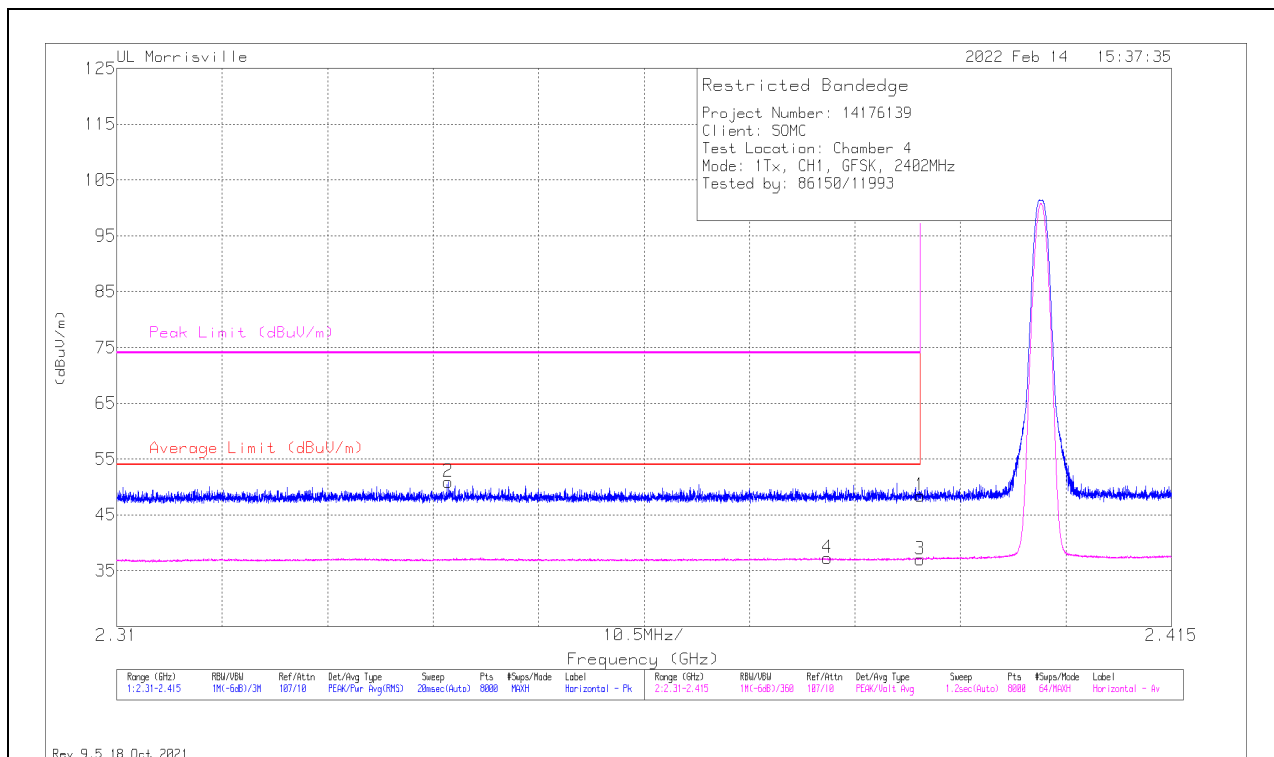
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Chain 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	43.21	Pk	32	-26.8	48.41	-	-	74	-25.59	2	110	H
2	* ** 2.34301	45.74	Pk	32	-26.8	50.94	-	-	74	-23.06	2	110	H
3	* ** 2.39	31.86	V1TV	32	-26.8	37.06	54	-16.94	-	-	2	110	H
4	* ** 2.38075	32.1	V1TV	32	-26.8	37.3	54	-16.7	-	-	2	110	H

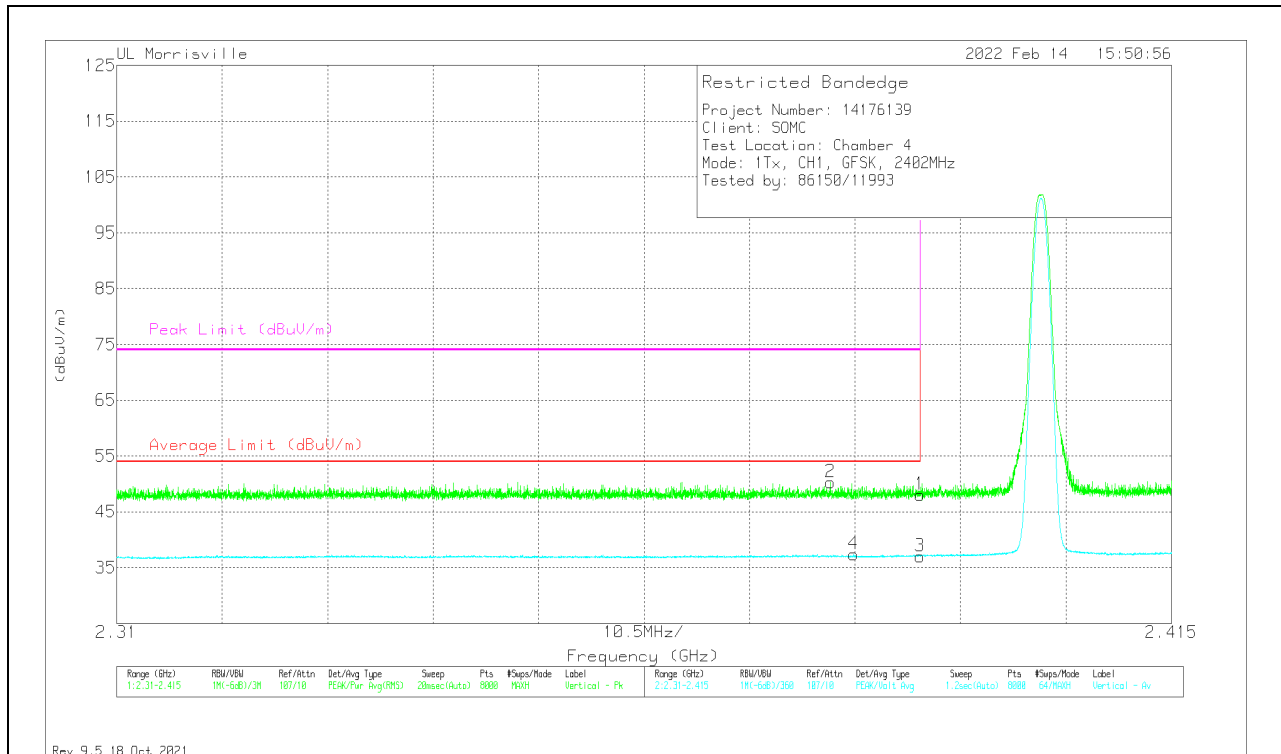
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	42.83	Pk	32	-26.8	48.03	-	-	74	-25.97	333	100	V
2	* ** 2.38103	45.05	Pk	32	-26.8	50.25	-	-	74	-23.75	333	100	V
3	* ** 2.39	31.83	V1TV	32	-26.8	37.03	54	-16.97	-	-	333	100	V
4	* ** 2.38335	32.17	V1TV	32	-26.8	37.37	54	-16.63	-	-	333	100	V

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

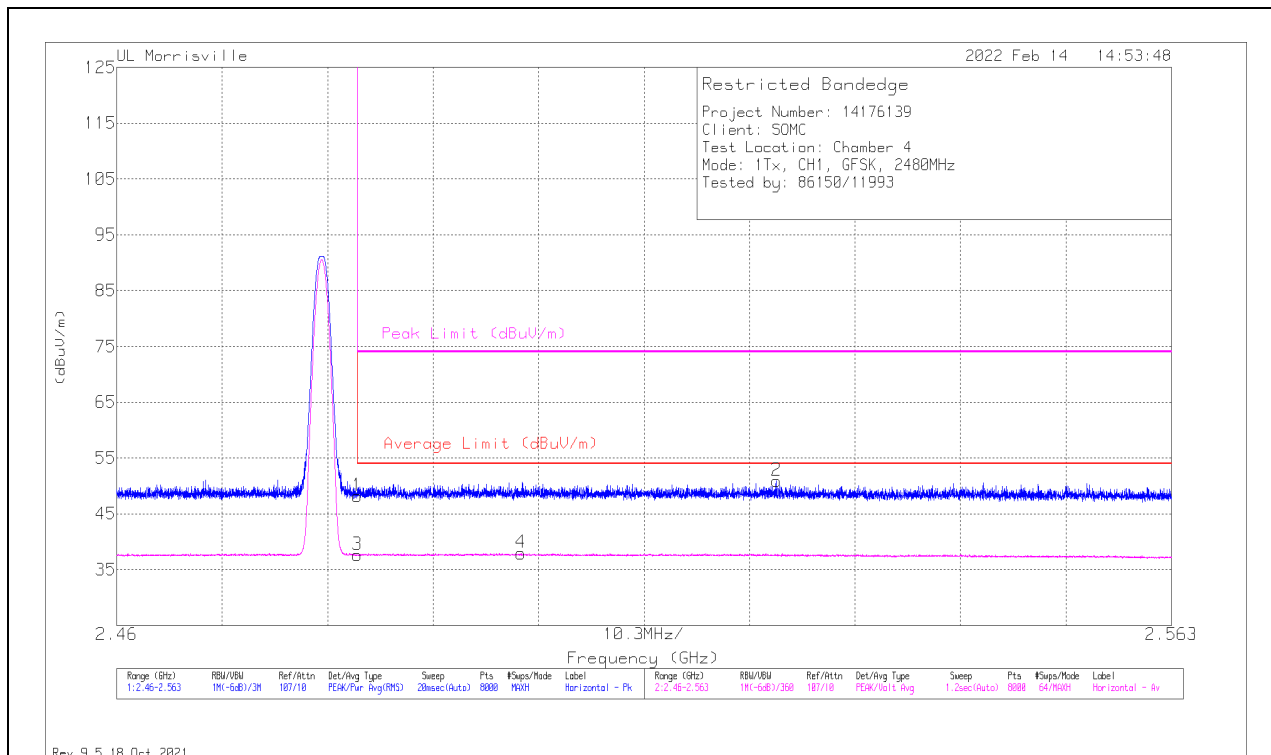
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	42.47	Pk	32.6	-26.9	48.17	-	-	74	-25.83	311	100	H
2	** 2.52444	45.35	Pk	32.5	-26.9	50.95	-	-	74	-23.05	311	100	H
3	*** 2.4835	31.92	V1TV	32.6	-26.9	37.62	54	-16.38	-	-	311	100	H
4	*** 2.49949	32.24	V1TV	32.6	-26.9	37.94	54	-16.06	-	-	311	100	H

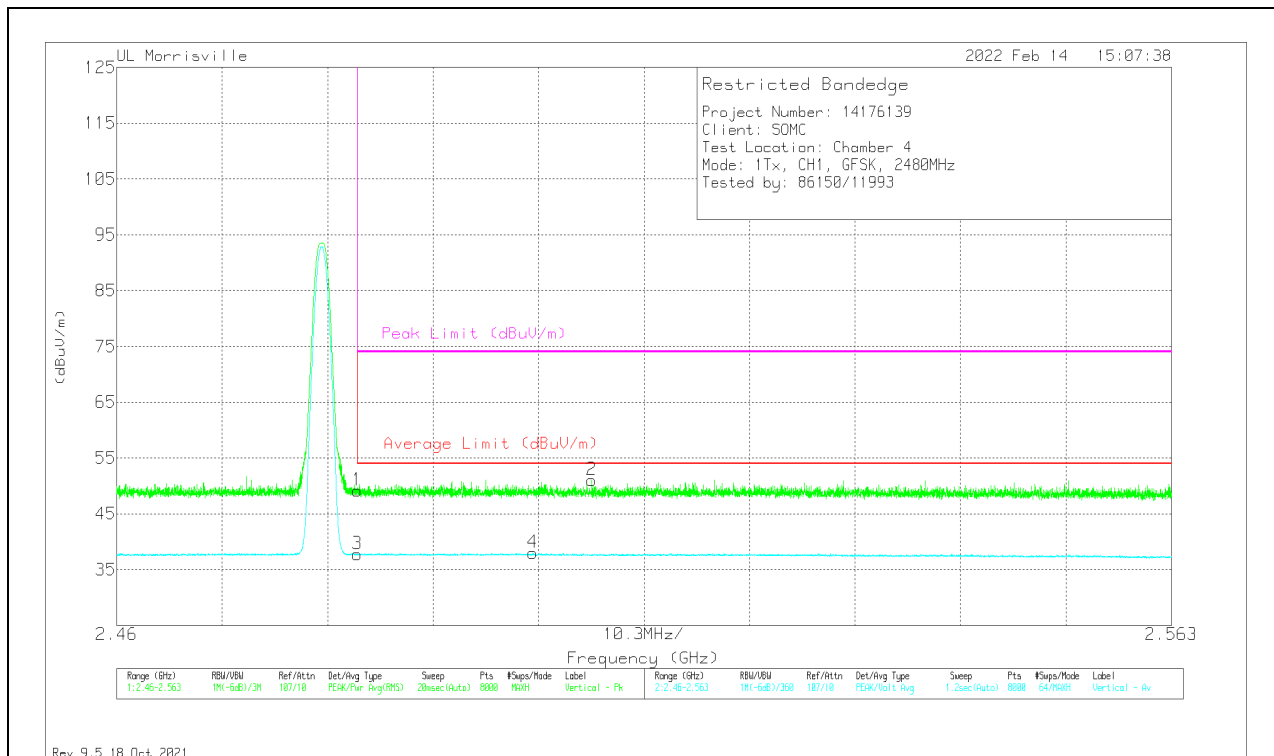
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	43.43	Pk	32.6	-26.9	49.13	-	-	74	-24.87	11	102	V
2	** 2.5064	45.29	Pk	32.6	-26.8	51.09	-	-	74	-22.91	11	102	V
3	* ** 2.4835	32.1	V1TV	32.6	-26.9	37.8	54	-16.2	-	-	11	102	V
4	** 2.50064	32.17	V1TV	32.6	-26.8	37.97	54	-16.03	-	-	11	102	V

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

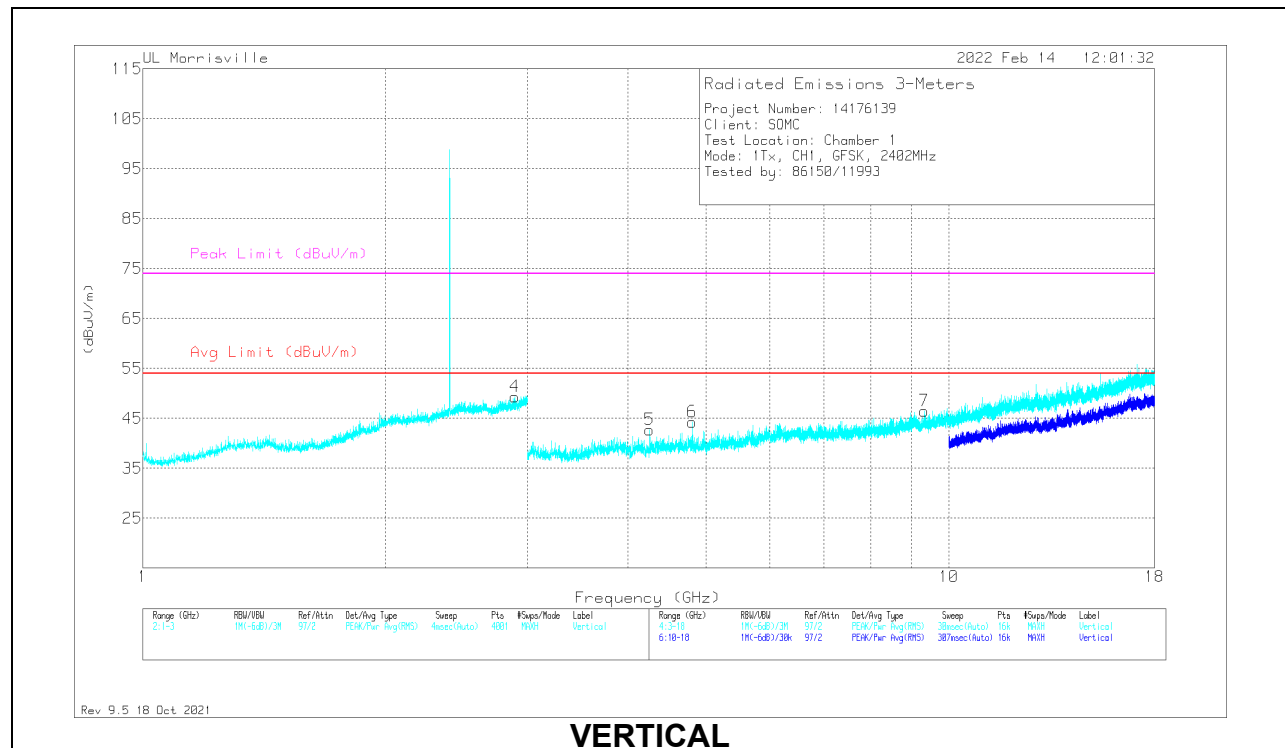
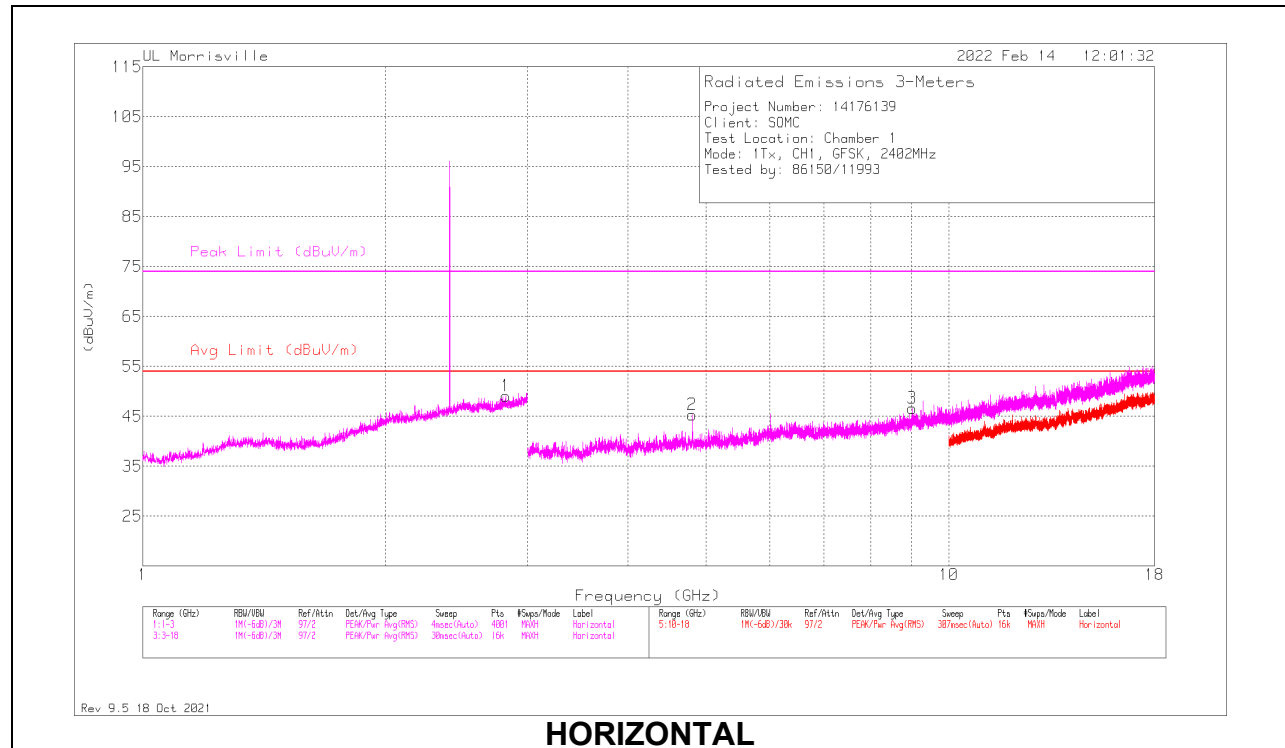
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.82026	28.8	PK2	32.4	-13	48.2	-	-	74	-25.8	333	262	H
	* ** 2.82271	16.15	V1TV	32.4	-13	35.55	54	-18.45	-	-	333	262	H
4	* ** 2.89122	28.89	PK2	32.5	-12.8	48.59	-	-	74	-25.41	179	135	V
	* ** 2.89337	16.19	V1TV	32.5	-12.8	35.89	54	-18.11	-	-	179	135	V
2	* ** 4.80375	43.81	Pk	34	-32.5	45.31	54	-8.69	74	-28.69	0-360	100	H
3	* ** 9.00469	36.75	Pk	35.9	-26	46.65	54	-7.35	74	-27.35	0-360	100	H
5	* ** 4.25531	41.42	Pk	33.4	-32.1	42.72	54	-11.28	74	-31.28	0-360	200	V
6	* ** 4.80375	42.73	Pk	34	-32.5	44.23	54	-9.77	74	-29.77	0-360	200	V
7	* ** 9.32625	35.83	Pk	36.4	-25.8	46.43	54	-7.57	74	-27.57	0-360	200	V

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

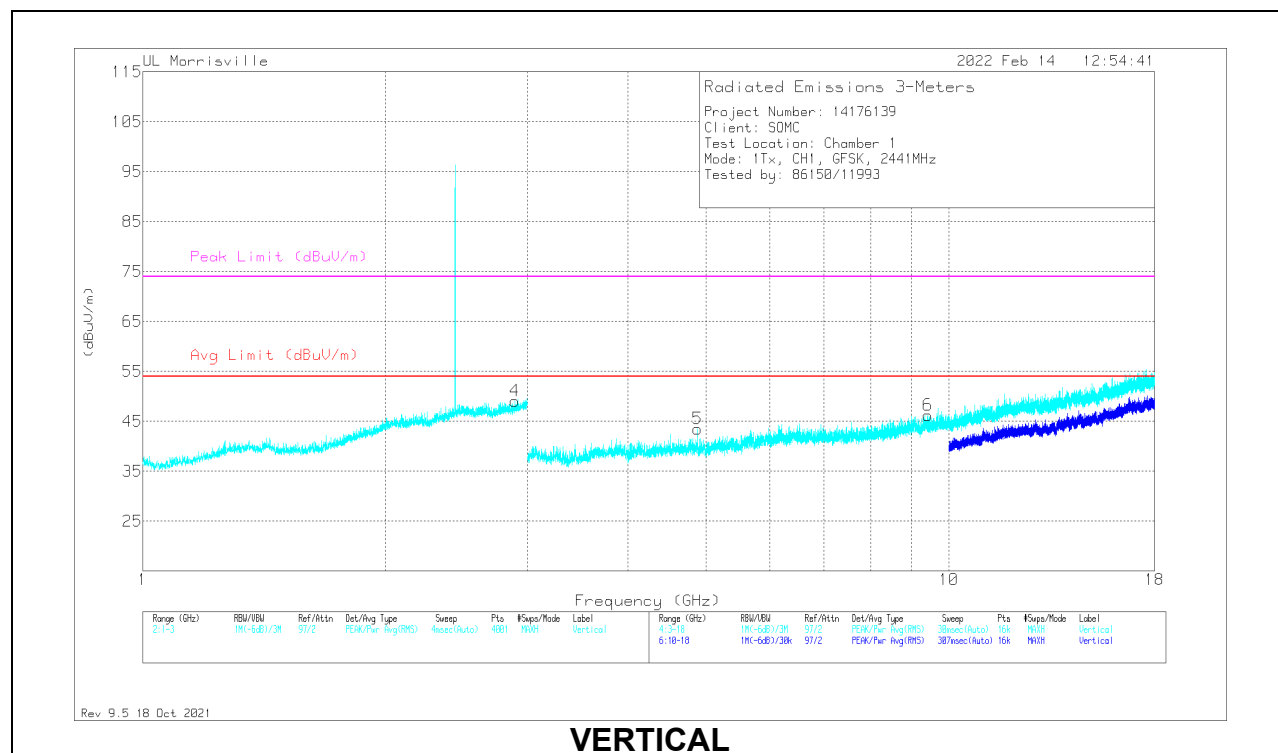
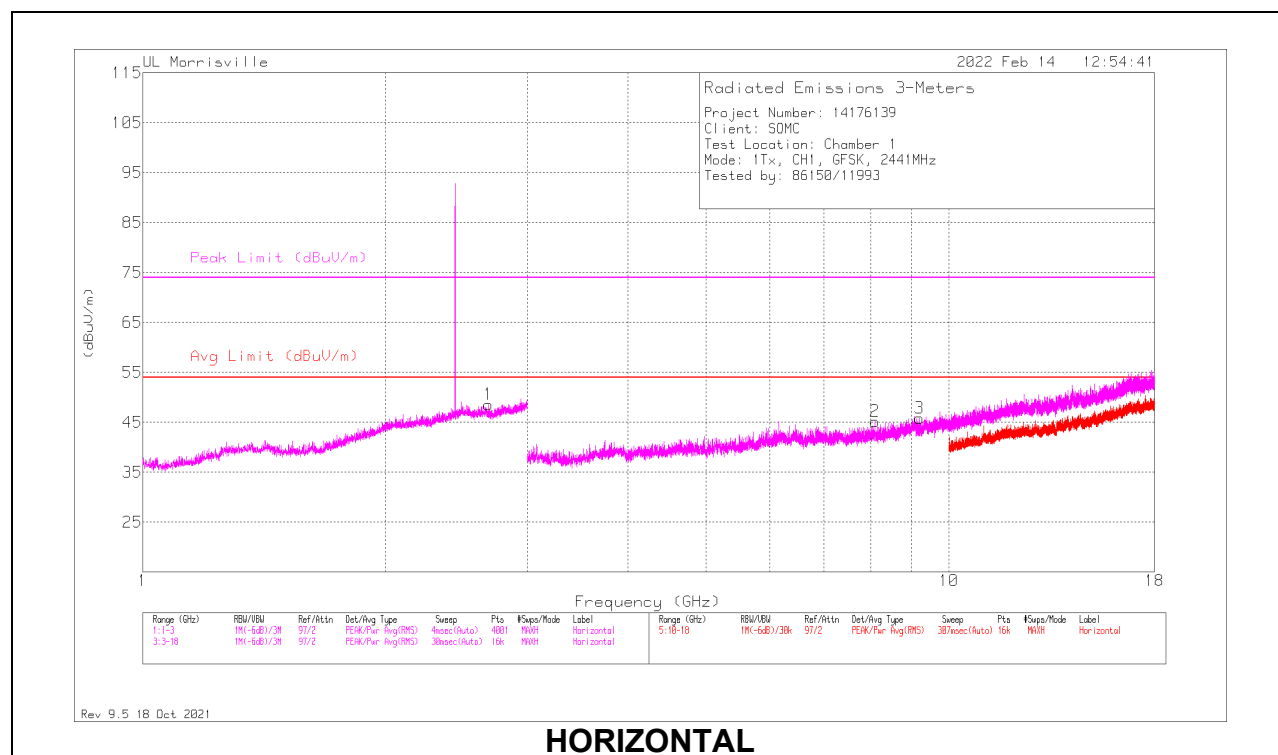
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 -Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.68205	28.84	PK2	31.9	-13.3	47.44	-	-	74	-26.56	123	347	H
	* ** 2.68166	16.29	V1TV	31.9	-13.3	34.89	54	-19.11	-	-	123	347	H
4	* ** 2.89153	29.02	PK2	32.5	-12.8	48.72	-	-	74	-25.28	125	234	V
	* ** 2.89335	16.17	V1TV	32.5	-12.8	35.87	54	-18.13	-	-	125	234	V
2	* ** 8.1	37.77	Pk	35.7	-28.3	45.17	54	-8.83	74	-28.83	0-360	100	H
3	* ** 9.19125	36.36	Pk	36.2	-26.7	45.86	54	-8.14	74	-28.14	0-360	100	H
5	* ** 4.8825	41.81	Pk	33.9	-32.2	43.51	54	-10.49	74	-30.49	0-360	200	V
6	* ** 9.41906	36.27	Pk	36.4	-26.4	46.27	54	-7.73	74	-27.73	0-360	200	V

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

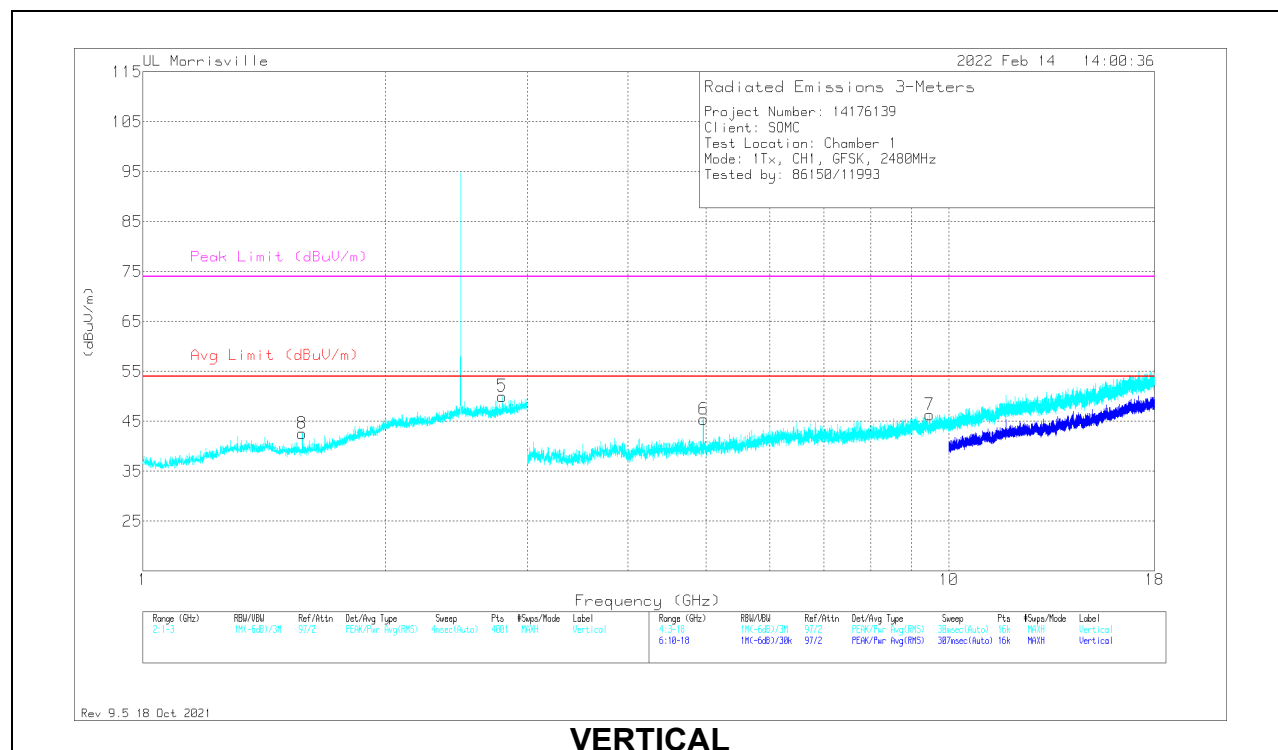
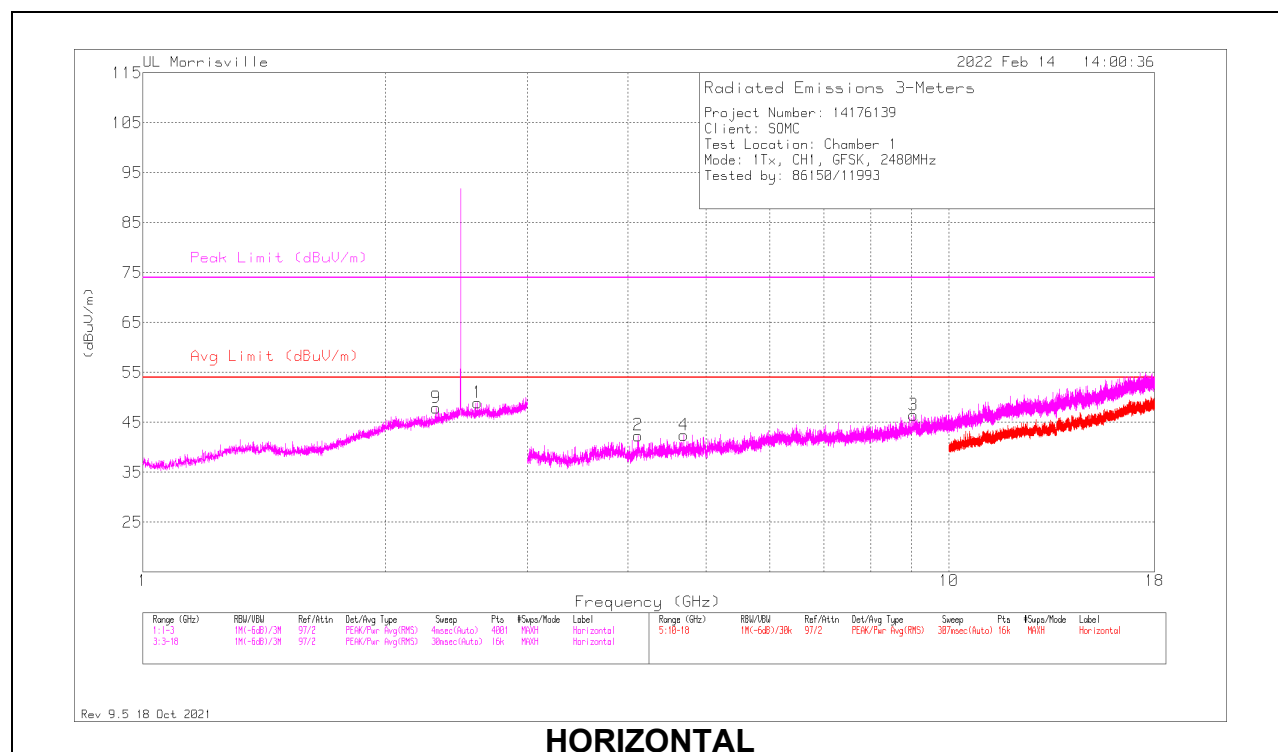
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 -Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.60237	28.93	PK2	32.1	-13.4	47.63	-	-	74	-26.37	18	247	H
	** 2.59952	16.25	V1TV	32.1	-13.5	34.85	54	-19.15	-	-	18	247	H
9	* ** 2.31	30.05	Pk	31.8	-13.9	47.95	54	-6.05	74	-26.05	0-360	100	H
5	* ** 2.79432	29.17	PK2	32.2	-13.1	48.27	-	-	74	-25.73	216	241	V
	* ** 2.793	16.18	V1TV	32.2	-13.1	35.28	54	-18.72	-	-	216	241	V
8	* ** 1.577	29.74	Pk	27.9	-15	42.64	54	-11.36	74	-31.36	0-360	200	V
2	* ** 4.11563	41.89	Pk	33.4	-32.9	42.39	54	-11.61	74	-31.61	0-360	100	H
3	* ** 9.03375	36.13	Pk	35.9	-25.6	46.43	54	-7.57	74	-27.57	0-360	100	H
4	* ** 4.68844	40.51	Pk	34.1	-32.1	42.51	54	-11.49	74	-31.49	0-360	100	H
6	* ** 4.96031	43.54	Pk	33.9	-32	45.44	54	-8.56	74	-28.56	0-360	200	V
7	* ** 9.46688	36.32	Pk	36.5	-26.5	46.32	54	-7.68	74	-27.68	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

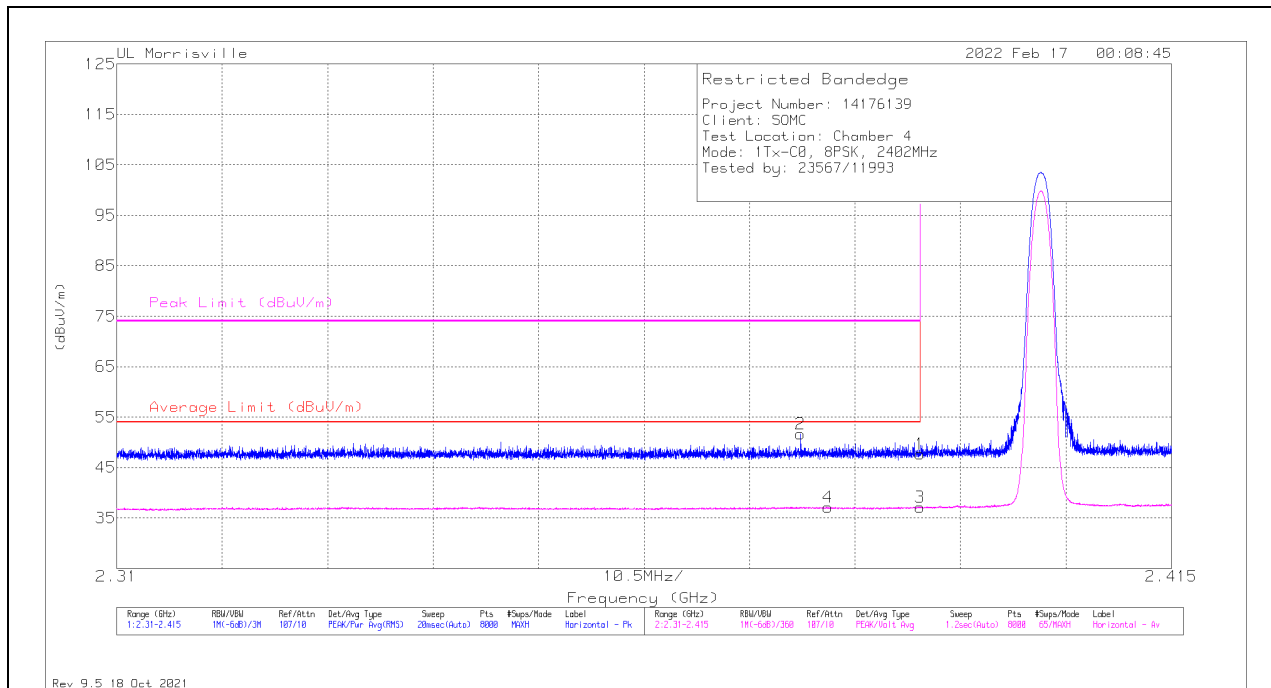
V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

Chain 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	42.5	Pk	32	-26.8	47.7	-	-	74	-26.3	187	177	H
2	* ** 2.37809	46.51	Pk	32	-26.8	51.71	-	-	74	-22.29	187	177	H
3	* ** 2.39	31.88	V1TV	32	-26.8	37.08	54	-16.92	-	-	187	177	H
4	* ** 2.38082	31.98	V1TV	32	-26.8	37.18	54	-16.82	-	-	187	177	H

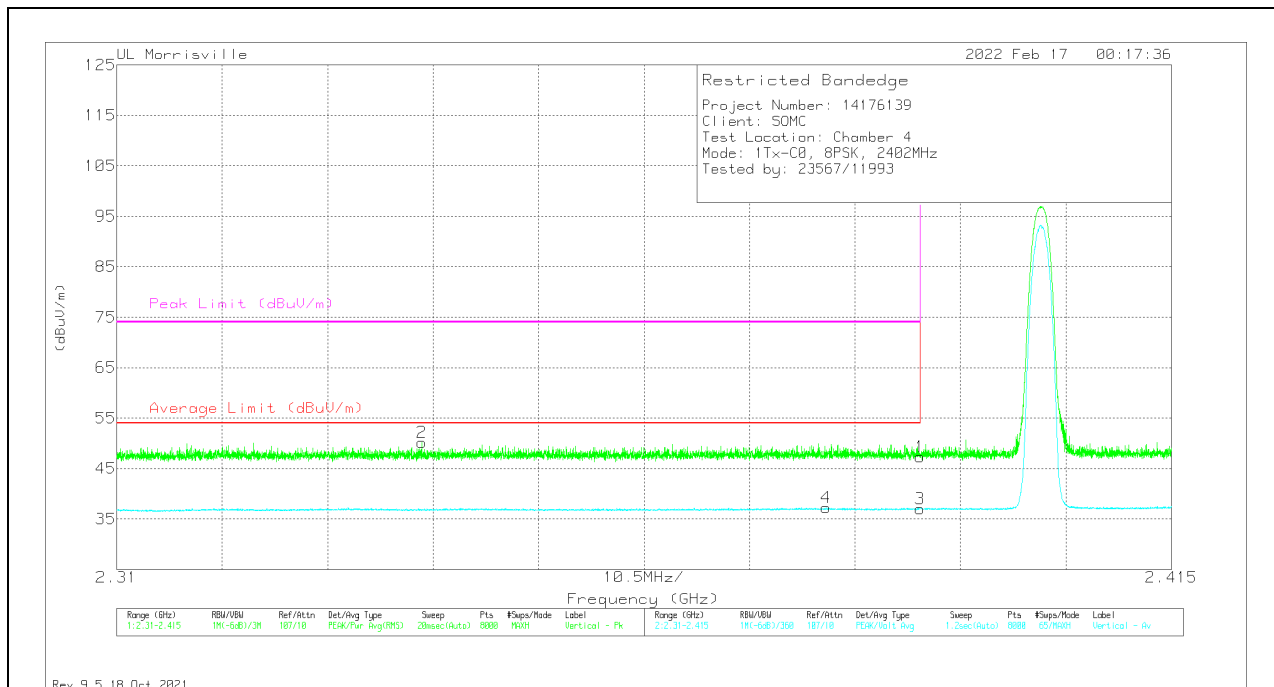
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	42.09	Pk	32	-26.8	47.29	-	-	74	-26.71	75	118	V
2	* ** 2.34038	44.98	Pk	32	-26.8	50.18	-	-	74	-23.82	75	118	V
3	* ** 2.39	31.83	V1TV	32	-26.8	37.03	54	-16.97	-	-	75	118	V
4	* ** 2.38064	32.06	V1TV	32	-26.8	37.26	54	-16.74	-	-	75	118	V

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

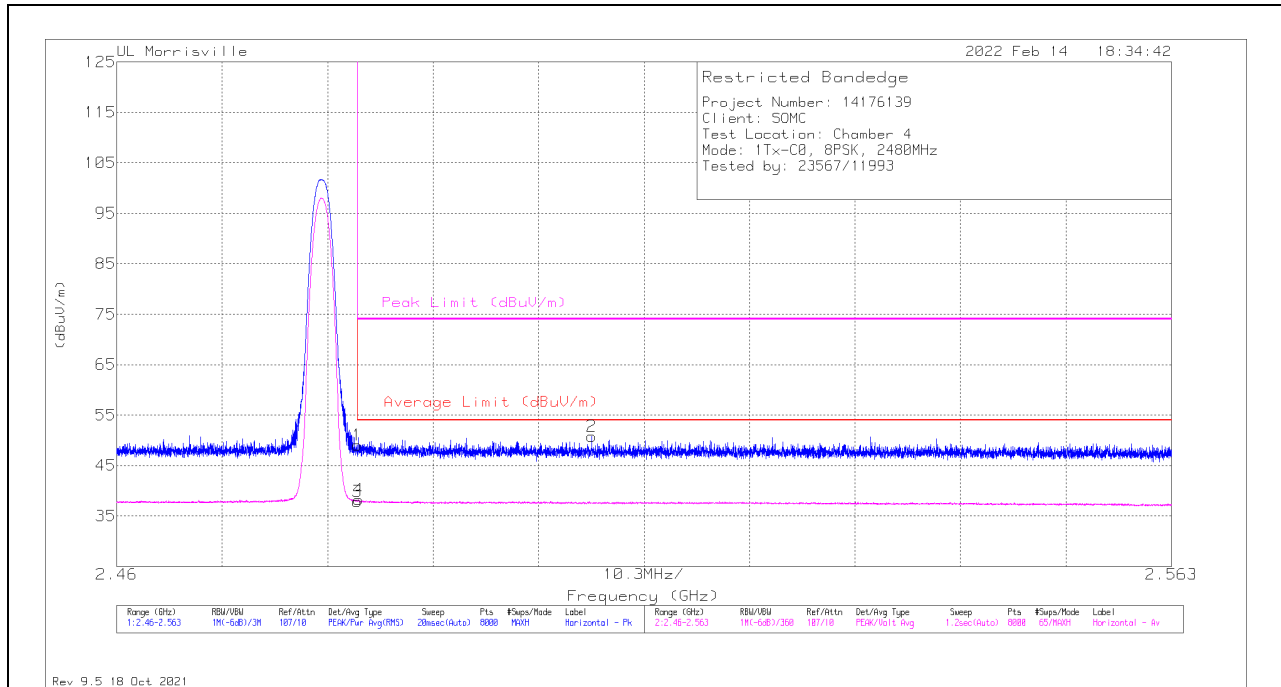
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Ftr/Pad (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	43.3	Pk	32.6	-26.9	49	-	-	74	-25	158	104	H
2	** 2.50637	44.95	Pk	32.6	-26.8	50.75	-	-	74	-23.25	158	104	H
3	*** 2.4835	32.22	V1TV	32.6	-26.9	37.92	54	-16.08	-	-	158	104	H
4	** 2.48364	32.52	V1TV	32.6	-26.9	38.22	54	-15.78	-	-	158	104	H

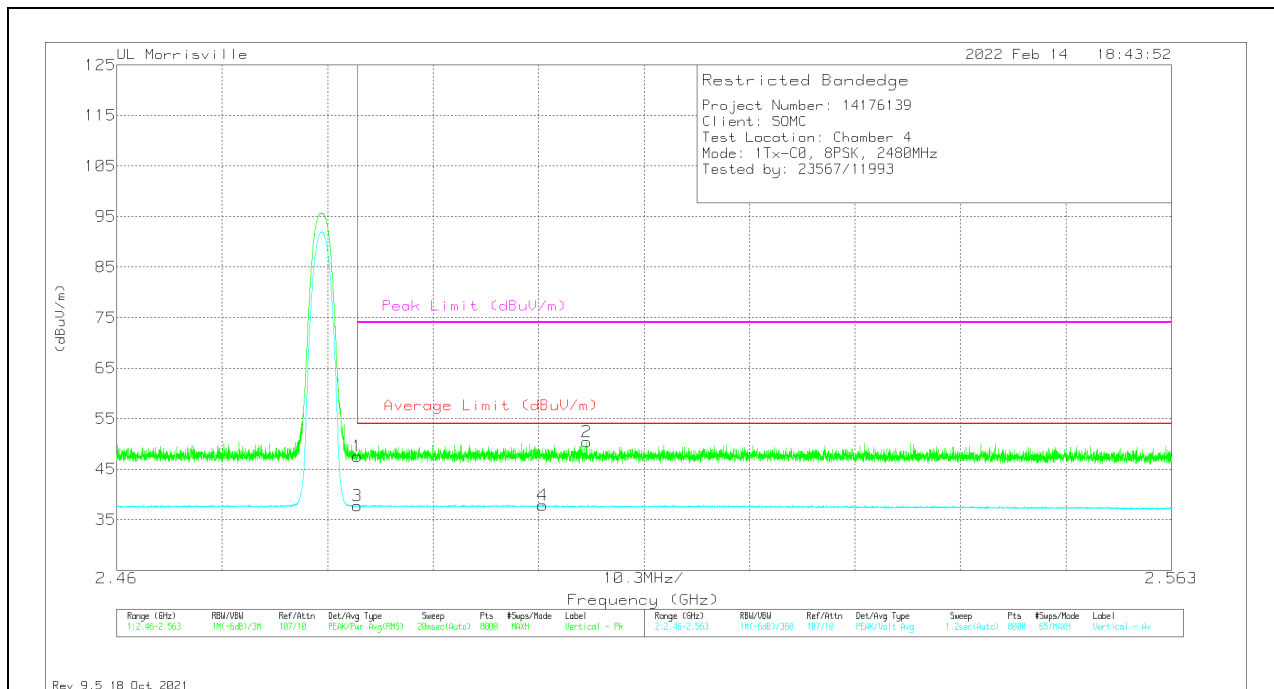
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	41.89	Pk	32.6	-26.9	47.59	-	-	74	-26.41	82	100	V
2	** 2.50591	44.58	Pk	32.6	-26.8	50.38	-	-	74	-23.62	82	100	V
3	* ** 2.4835	32.09	V1TV	32.6	-26.9	37.79	54	-16.21	-	-	82	100	V
4	** 2.50158	32.13	V1TV	32.6	-26.8	37.93	54	-16.07	-	-	82	100	V

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

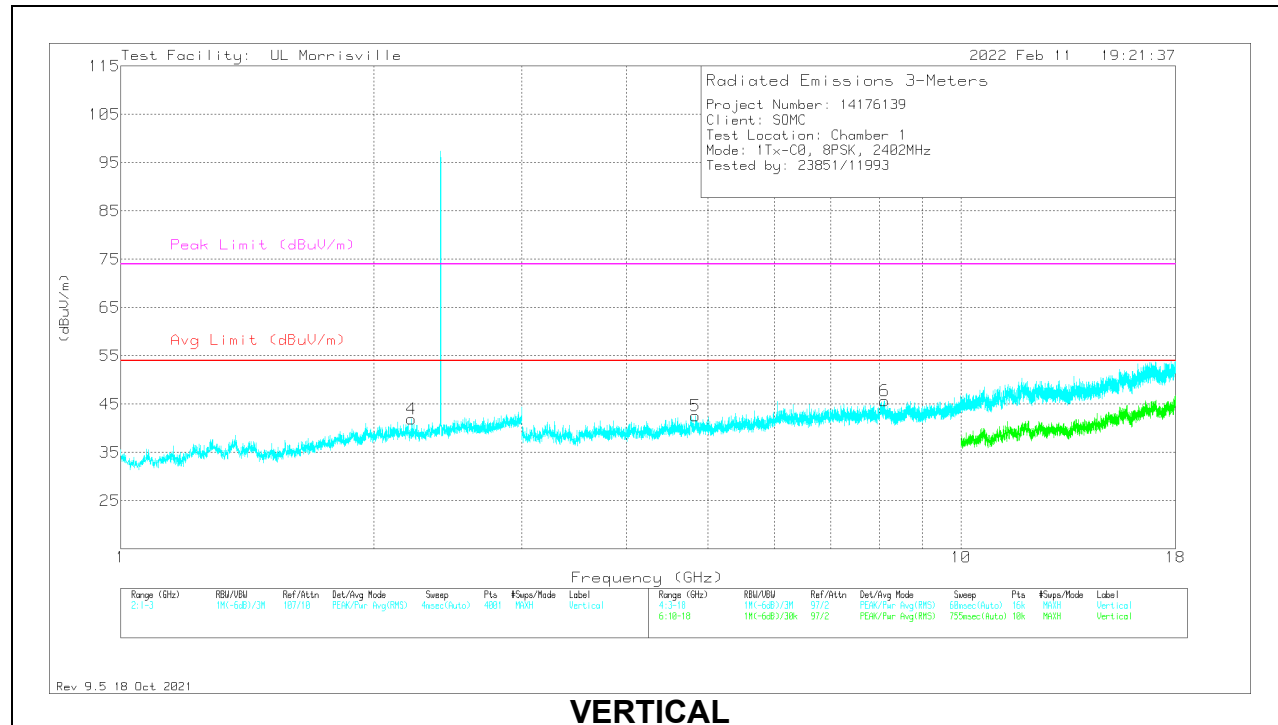
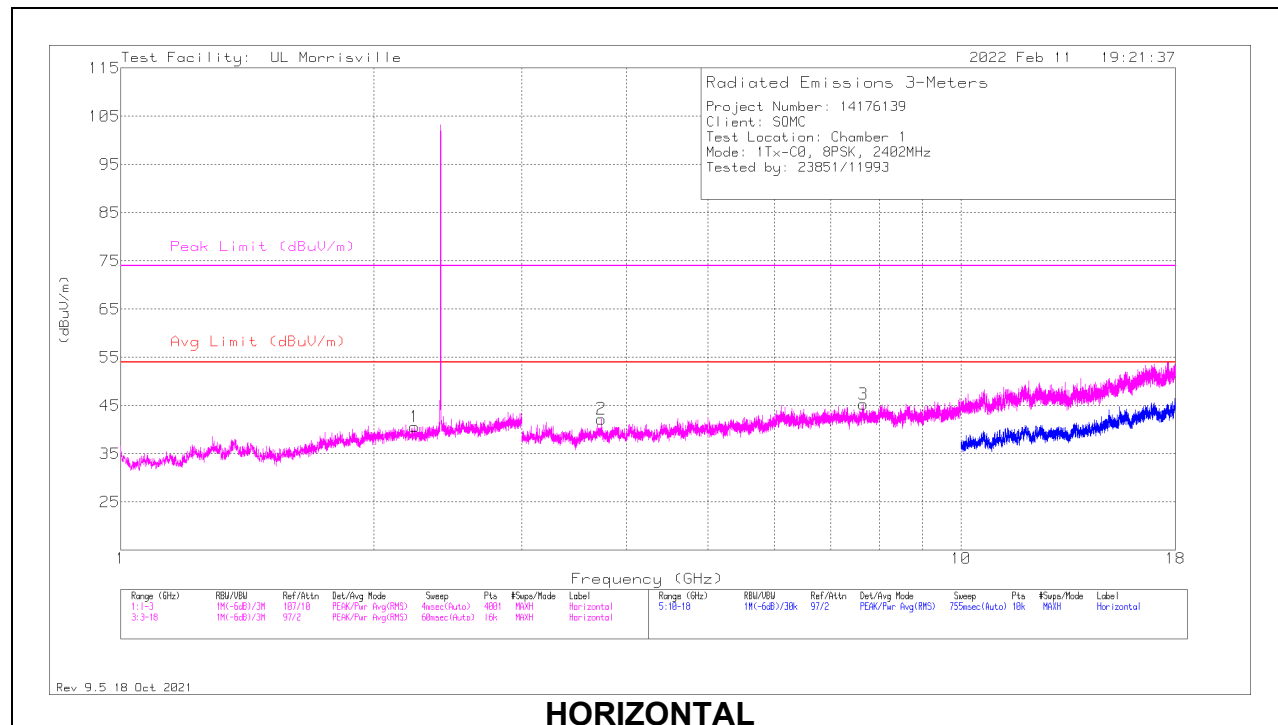
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

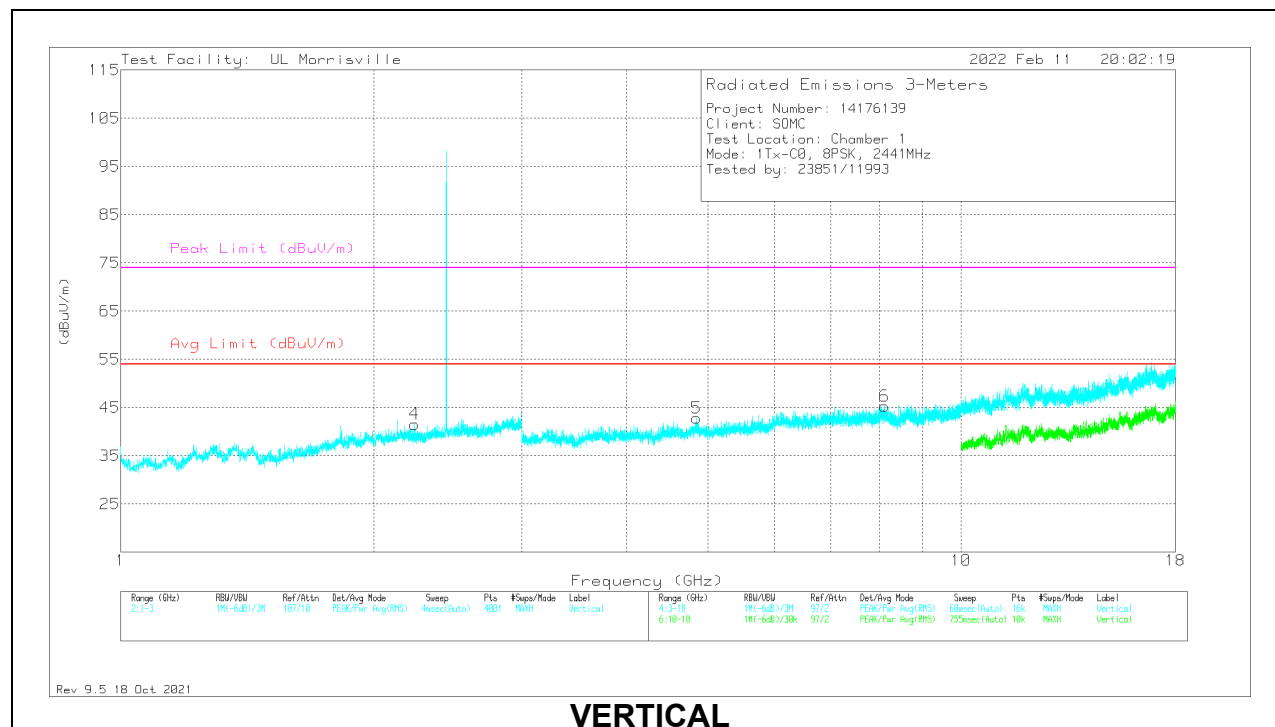
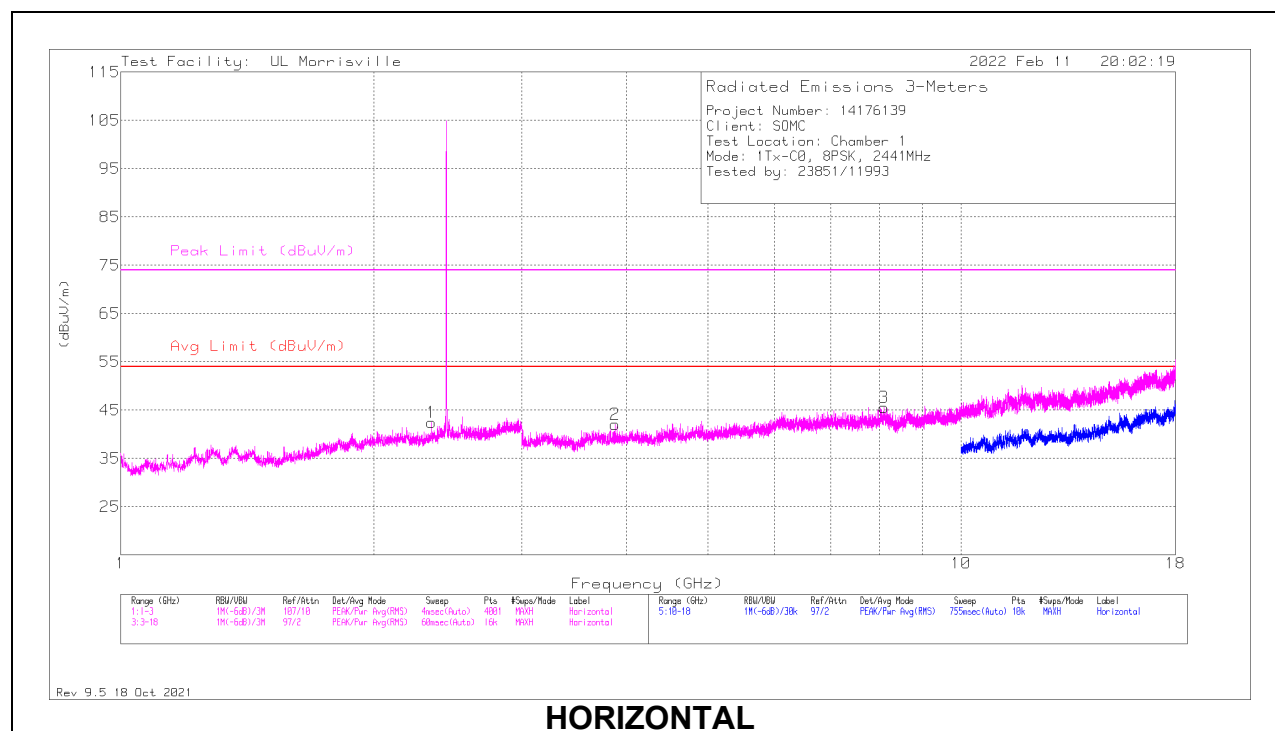
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.239	33.44	Pk	31.6	-24.4	40.64	54	-13.36	74	-33.36	0-360	100	H
4	* ** 2.2195	34.51	Pk	31.8	-24.4	41.91	54	-12.09	74	-32.09	0-360	200	V
2	* ** 3.73125	41.36	Pk	33.3	-32.4	42.26	54	-11.74	74	-31.74	0-360	101	H
3	* ** 7.65188	38.22	Pk	35.7	-28.6	45.32	54	-8.68	74	-28.68	0-360	101	H
5	* ** 4.82719	39.75	Pk	34	-31.2	42.55	54	-11.45	74	-31.45	0-360	101	V
6	* ** 8.10656	38.1	Pk	35.7	-28.1	45.7	54	-8.3	74	-28.3	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 RESULTS



RADIATED EMISSIONS

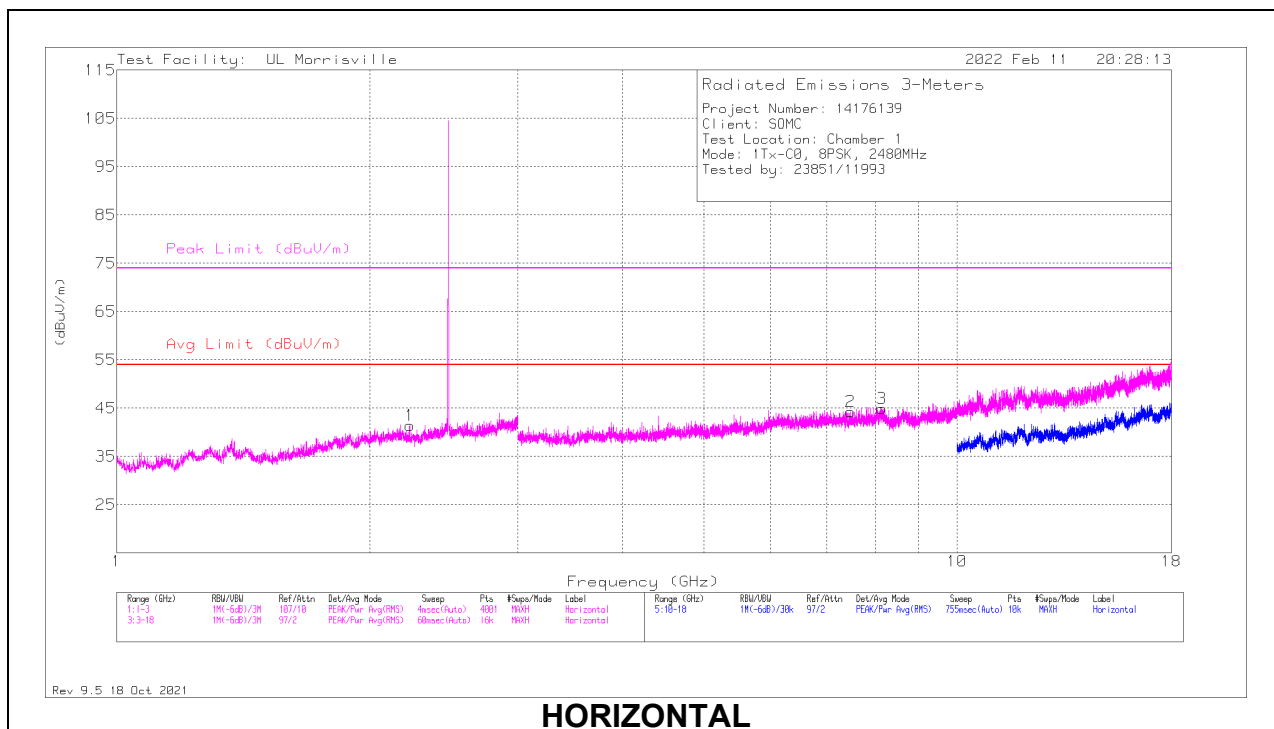
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.3435	34.92	Pk	32.1	-24.6	42.42	54	-11.58	74	-31.58	0-360	101	H
4	* ** 2.239	34.41	Pk	31.6	-24.4	41.61	54	-12.39	74	-32.39	0-360	200	V
2	* ** 3.87375	40.85	Pk	33.4	-32.2	42.05	54	-11.95	74	-31.95	0-360	101	H
3	* ** 8.10375	38.13	Pk	35.7	-28.2	45.63	54	-8.37	74	-28.37	0-360	199	H
5	* ** 4.84313	39.89	Pk	34	-31	42.89	54	-11.11	74	-31.11	0-360	101	V
6	* ** 8.1075	37.76	Pk	35.7	-28.2	45.26	54	-8.74	74	-28.74	0-360	200	V

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

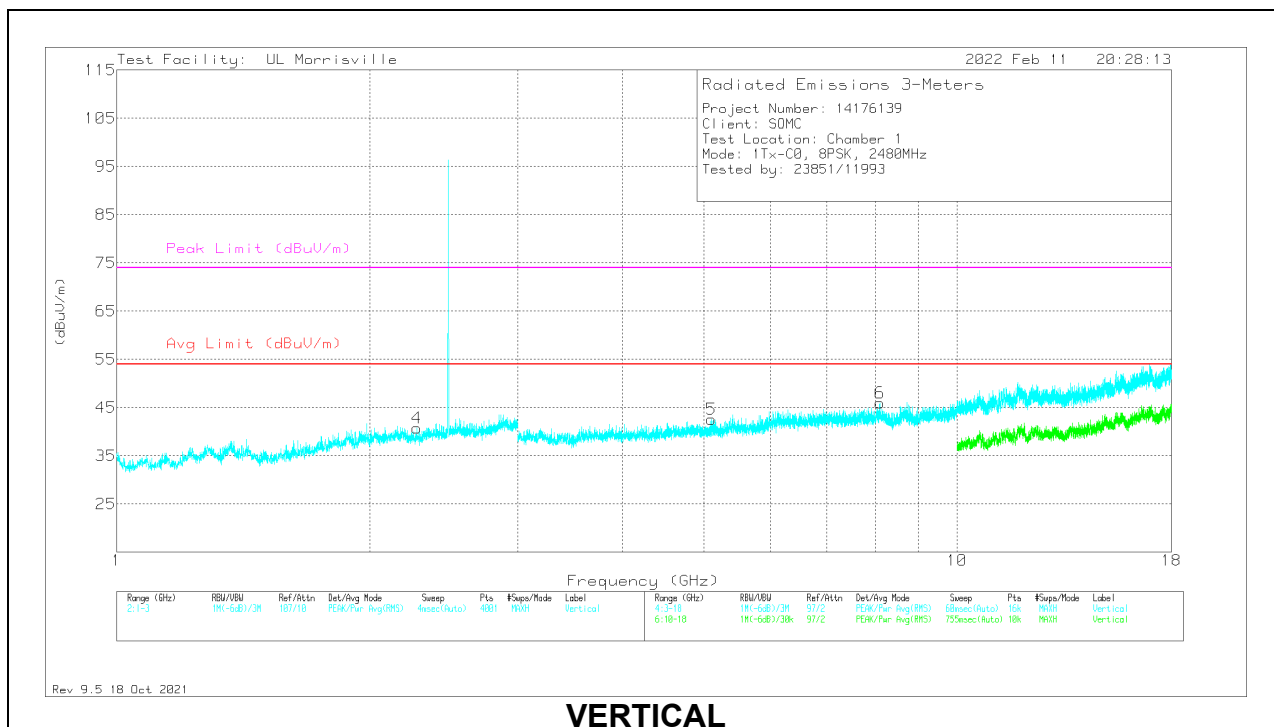
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.232	34.06	Pk	31.7	-24.3	41.46	54	-12.54	74	-32.54	0-360	101	H
4	* ** 2.276	33.69	Pk	31.5	-24.4	40.79	54	-13.21	74	-33.21	0-360	101	V
2	* ** 7.46531	37.83	Pk	35.6	-29.1	44.33	54	-9.67	74	-29.67	0-360	200	H
3	* ** 8.13938	38.02	Pk	35.7	-28.8	44.92	54	-9.08	74	-29.08	0-360	101	H
5	* ** 5.10375	39.85	Pk	34	-31.3	42.55	54	-11.45	74	-31.45	0-360	101	V
6	* ** 8.09531	38.35	Pk	35.7	-28.1	45.95	54	-8.05	74	-28.05	0-360	101	V

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

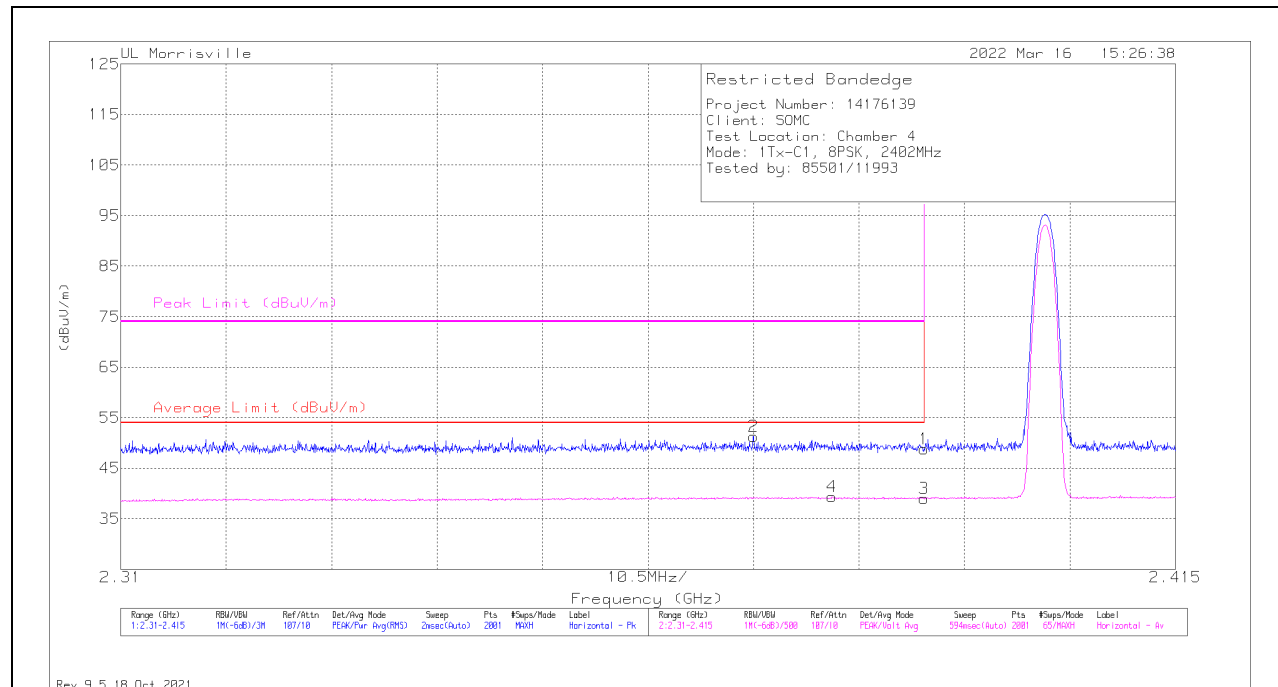
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Chain 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (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	30.65	Pk	31.9	-13.8	48.75	-	-	74	-25.25	299	134	H
2	* ** 2.373	33.31	Pk	31.9	-13.9	51.31	-	-	74	-22.69	299	134	H
3	* ** 2.38996	18.58	V1TV	31.9	-13.8	36.68	54	-17.32	-	-	299	134	H
4	* ** 2.38082	19.04	V1TV	31.9	-13.9	37.04	54	-16.96	-	-	299	134	H

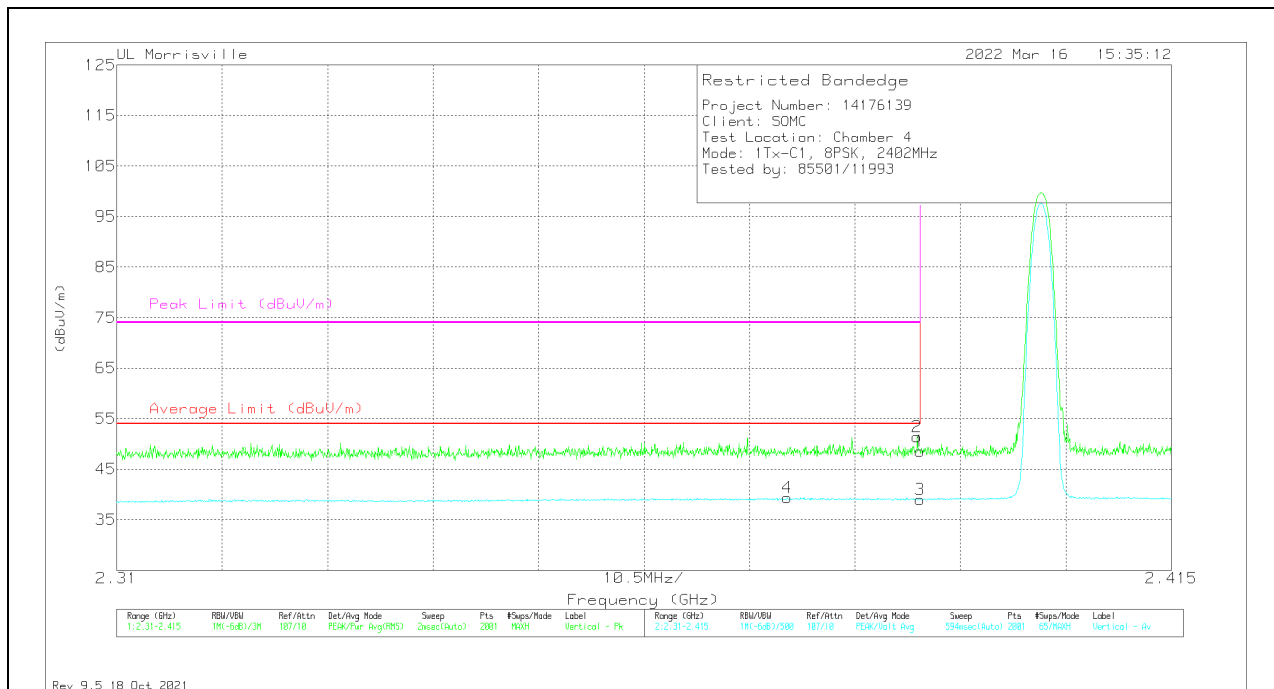
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (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	30.49	Pk	31.9	-13.8	48.59	-	-	74	-25.41	4	119	V
2	* ** 2.3897	33.31	Pk	31.9	-13.8	51.41	-	-	74	-22.59	4	119	V
3	* ** 2.38996	18.62	V1TV	31.9	-13.8	36.72	54	-17.28	-	-	4	119	V
4	* ** 2.37678	19.08	V1TV	31.9	-13.9	37.08	54	-16.92	-	-	4	119	V

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

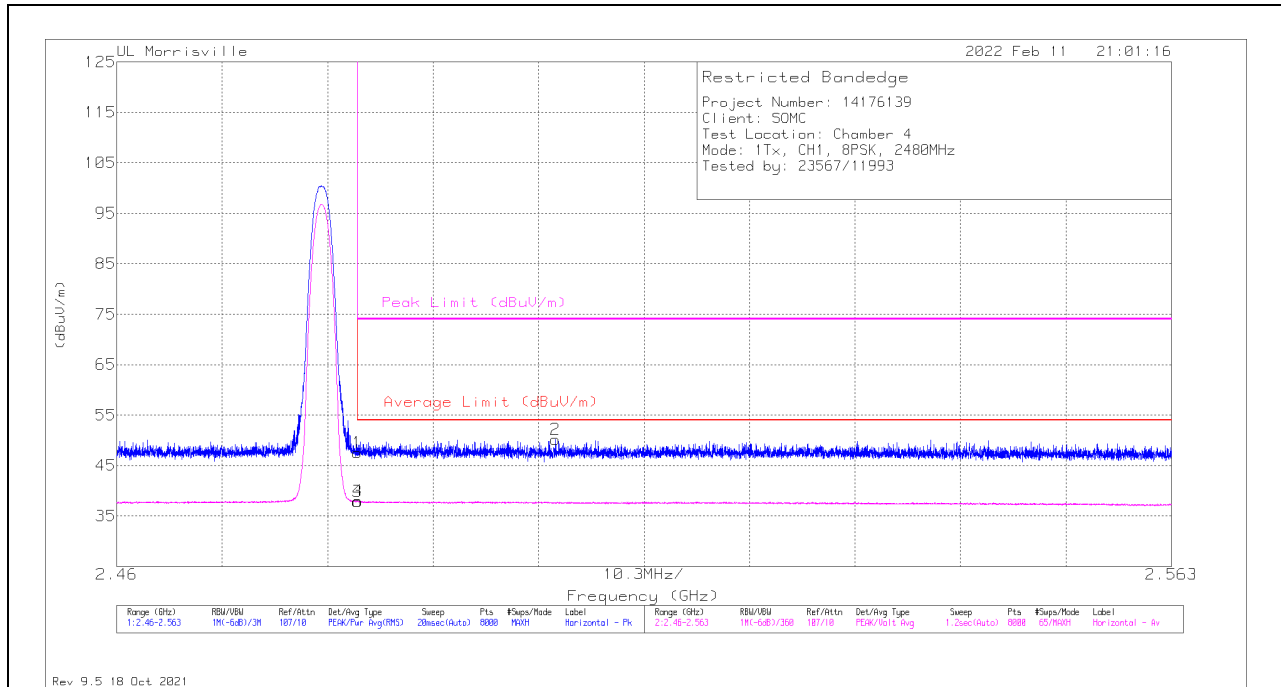
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	41.82	Pk	32.6	-26.9	47.52	-	-	74	-26.48	330	104	H
2	** 2.50285	44.32	Pk	32.6	-26.8	50.12	-	-	74	-23.88	330	104	H
3	*** 2.4835	32.12	V1TV	32.6	-26.9	37.82	54	-16.18	-	-	330	104	H
4	** 2.48358	32.24	V1TV	32.6	-26.9	37.94	54	-16.06	-	-	330	104	H

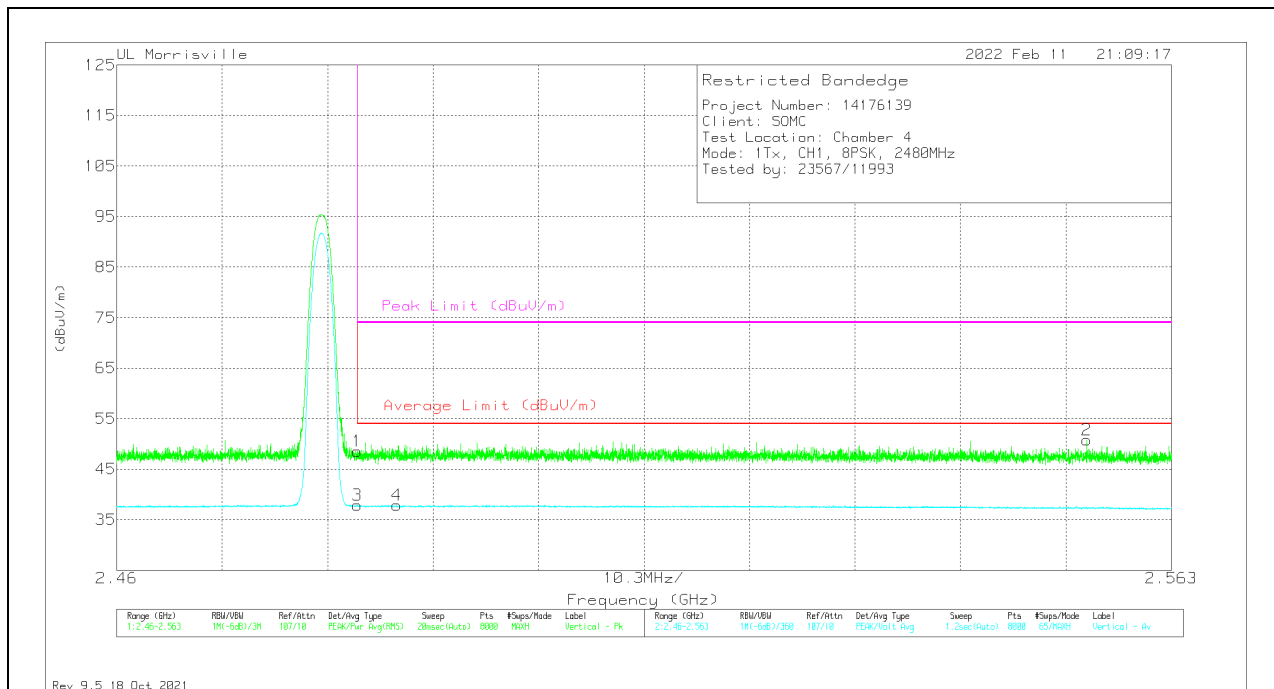
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (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	42.91	Pk	32.6	-26.9	48.61	-	-	74	-25.39	49	139	V
2	** 2.55475	45.38	Pk	32.2	-26.8	50.78	-	-	74	-23.22	49	139	V
3	* ** 2.4835	32.17	V1TV	32.6	-26.9	37.87	54	-16.13	-	-	49	139	V
4	* ** 2.48736	32.22	V1TV	32.6	-26.9	37.92	54	-16.08	-	-	49	139	V

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

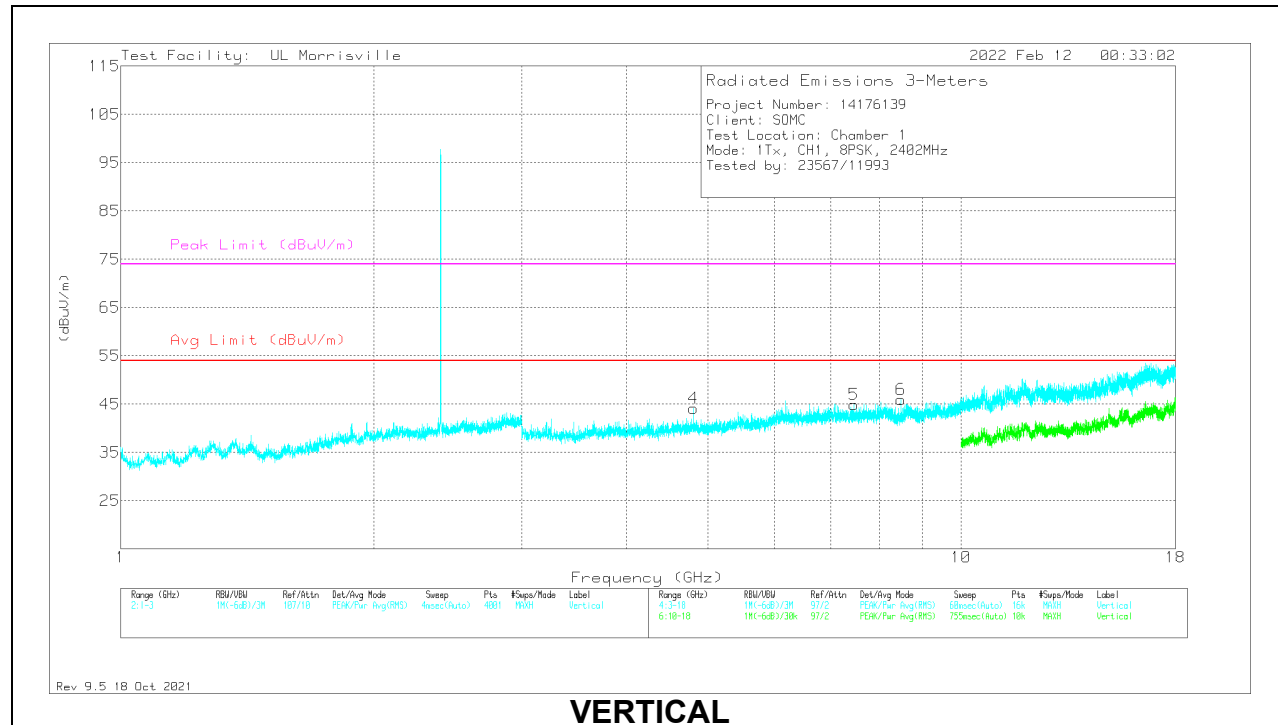
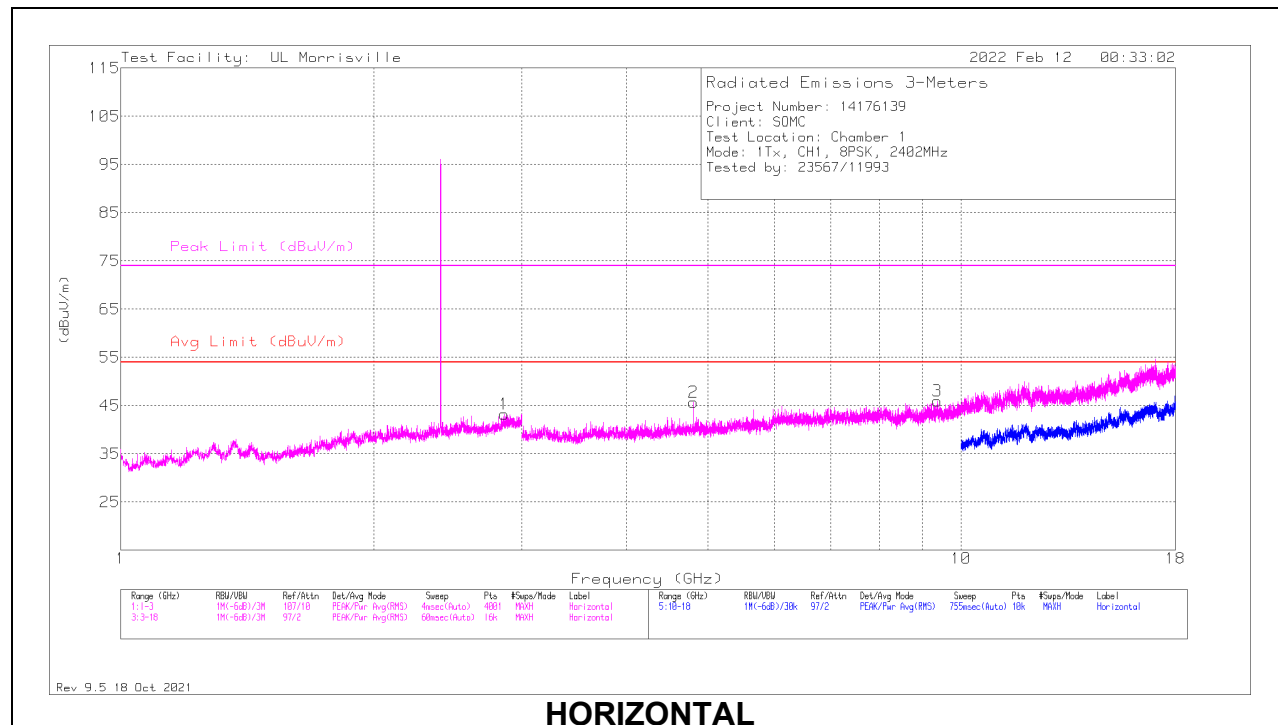
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.862	34.08	Pk	32.7	-23.5	43.28	54	-10.72	74	-30.72	0-360	199	H
2	* ** 4.80375	43.85	Pk	33.9	-32.1	45.65	54	-8.35	74	-28.35	0-360	101	H
3	* ** 9.36563	37.88	Pk	36.3	-28.2	45.98	54	-8.02	74	-28.02	0-360	101	H
4	* ** 4.80375	42.35	Pk	33.9	-32.1	44.15	54	-9.85	74	-29.85	0-360	101	V
5	* ** 7.46063	38.35	Pk	35.6	-29	44.95	54	-9.05	74	-29.05	0-360	101	V
6	* ** 8.48531	38.51	Pk	35.8	-28.4	45.91	54	-8.09	74	-28.09	0-360	200	V

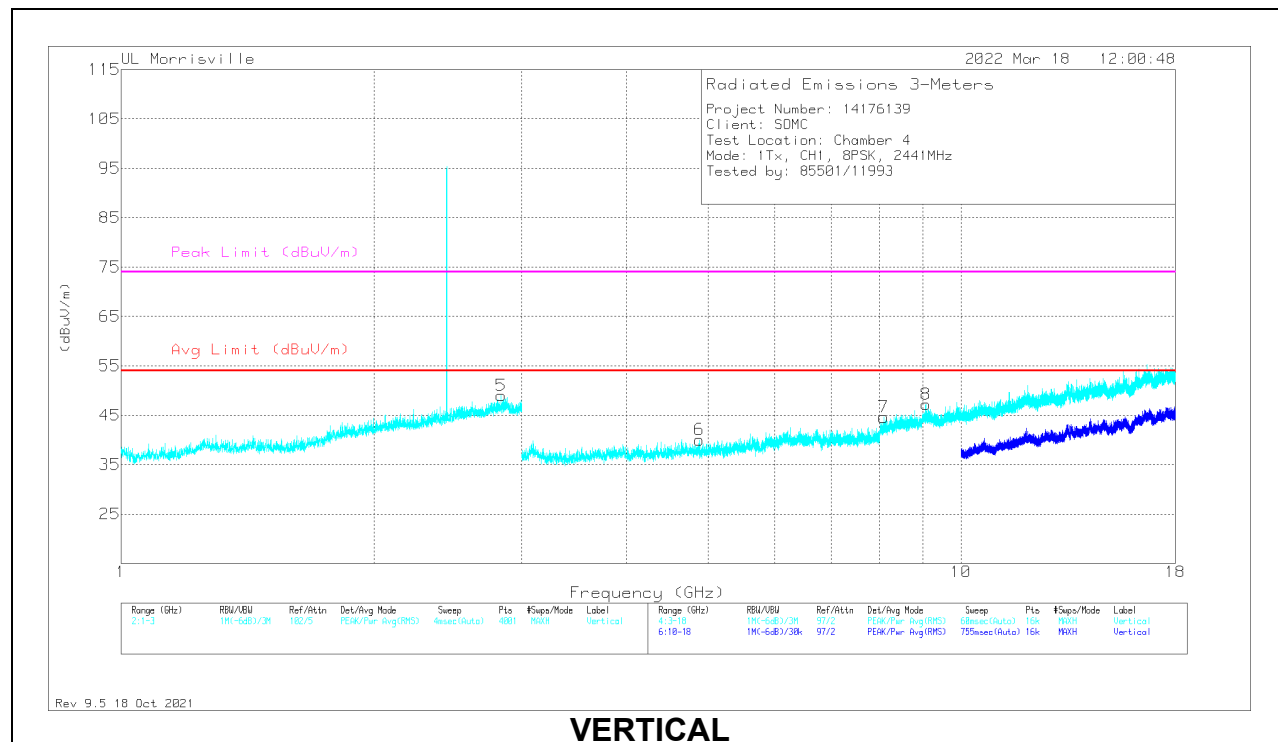
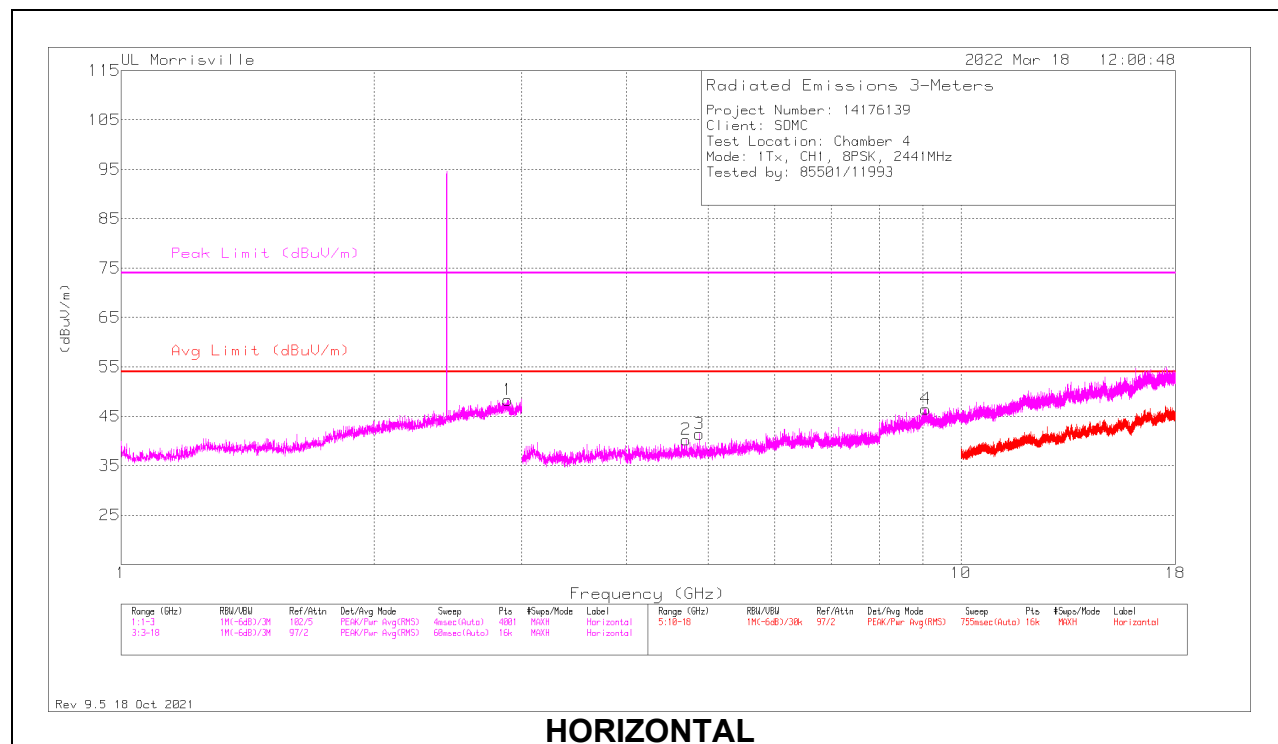
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.88709	29.25	PK2	32.4	-12.8	48.85	-	-	74	-25.15	12	154	H
	* ** 2.88739	15.03	V1TV	32.4	-12.8	34.63	54	-19.37	-	-	12	154	H
5	* ** 2.83493	29.53	PK2	32.5	-13	49.03	-	-	74	-24.97	310	250	V
	* ** 2.83696	14.97	V1TV	32.5	-13	34.47	54	-19.53	-	-	310	250	V
2	* ** 4.71	38.48	Pk	34	-32.2	40.28	54	-13.72	74	-33.72	0-360	100	H
3	* ** 4.88156	39.65	Pk	34	-32.2	41.45	54	-12.55	74	-32.55	0-360	100	H
4	* ** 9.07781	35.8	Pk	36.2	-25.5	46.5	54	-7.5	74	-27.5	0-360	100	H
6	* ** 4.88156	38.23	Pk	34	-32.2	40.03	54	-13.97	74	-33.97	0-360	200	V
7	* ** 8.09063	37.22	Pk	35.7	-28.3	44.62	54	-9.38	74	-29.38	0-360	200	V
8	* ** 9.0825	36.61	Pk	36.2	-25.6	47.21	54	-6.79	74	-26.79	0-360	200	V

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

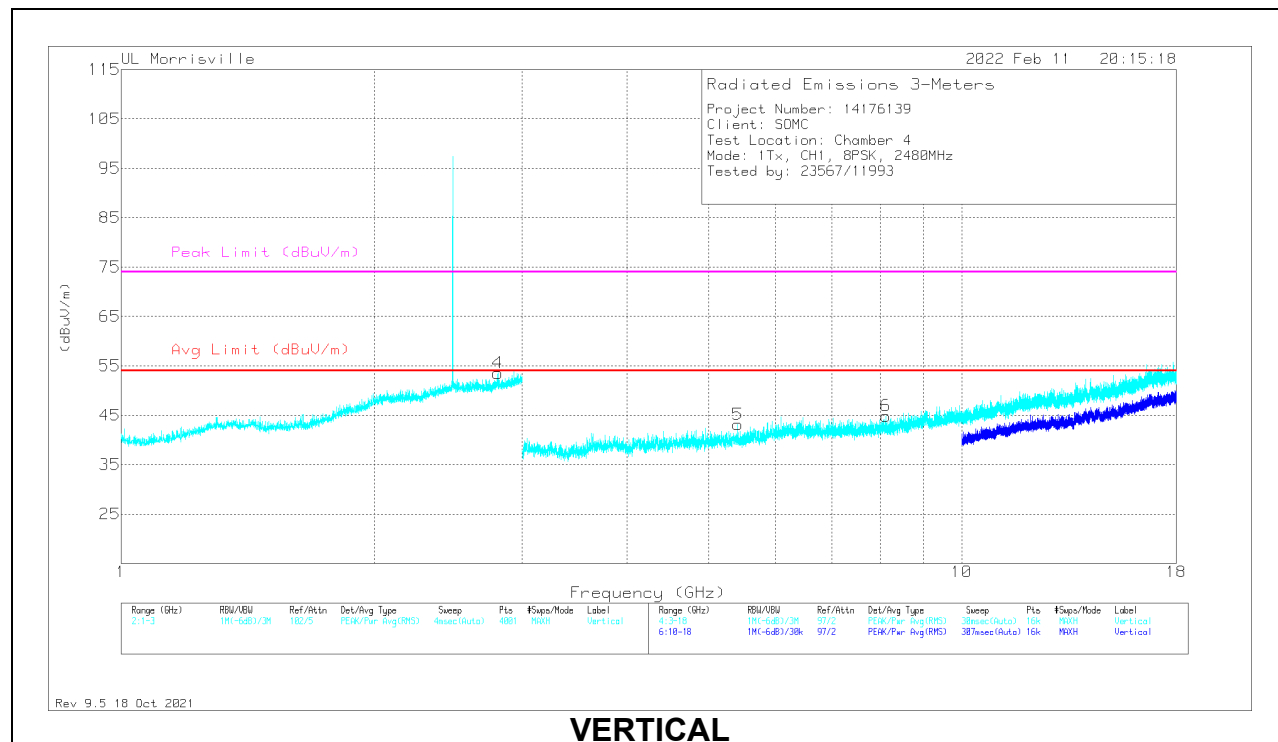
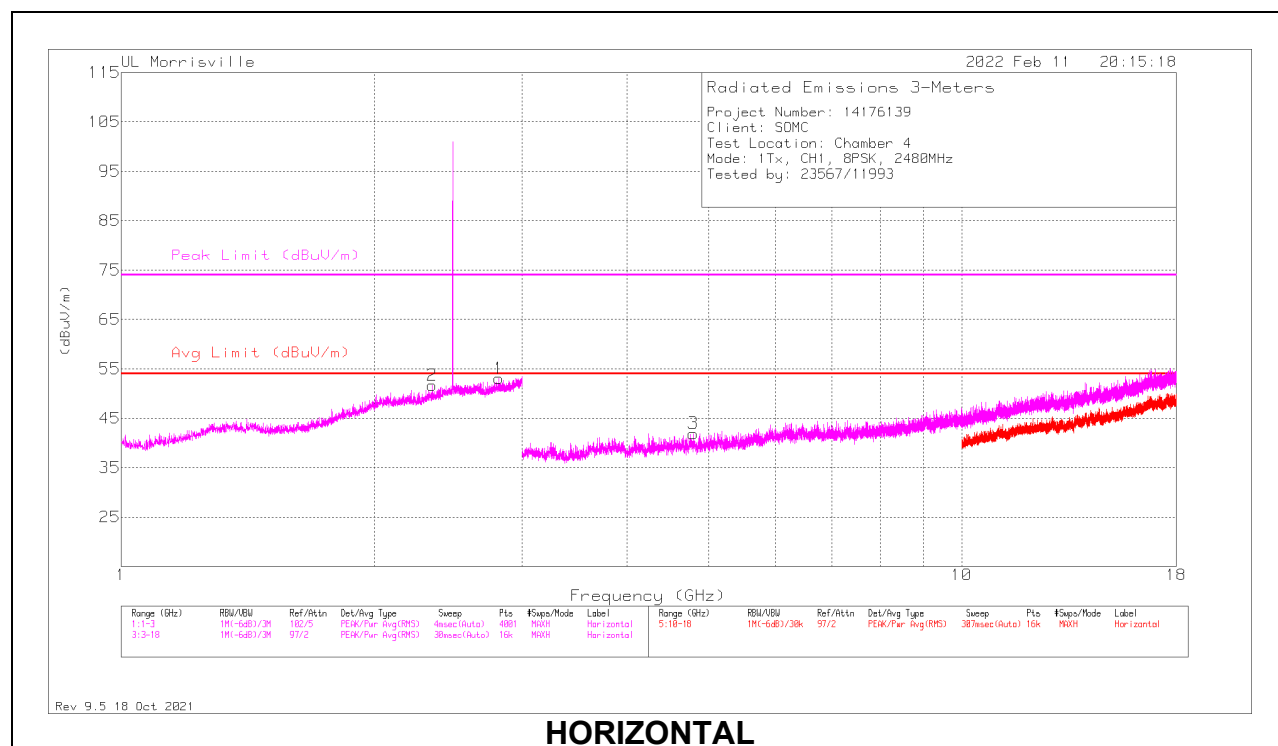
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.81349	32.28	PK2	32.4	-13	51.68	-	-	74	-22.32	73	332	H
	* ** 2.8151	19.96	V1TV	32.4	-13	39.36	54	-14.64	-	-	73	332	H
2	* ** 2.34371	31.96	PK2	32	-13.9	50.06	-	-	74	-23.94	256	399	H
	* ** 2.34586	19.73	V1TV	32	-13.9	37.83	54	-16.17	-	-	256	399	H
4	* ** 2.80672	32.57	PK2	32.3	-13	51.87	-	-	74	-22.13	41	188	V
	* ** 2.807	19.84	V1TV	32.3	-13	39.14	54	-14.86	-	-	41	188	V
3	* ** 4.79344	40.22	Pk	34.1	-32.4	41.92	54	-12.08	74	-32.08	0-360	100	H
5	* ** 5.41594	39.93	Pk	34.4	-31.2	43.13	54	-10.87	74	-30.87	0-360	200	V
6	* ** 8.12438	37.27	Pk	35.7	-28.1	44.87	54	-9.13	74	-29.13	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

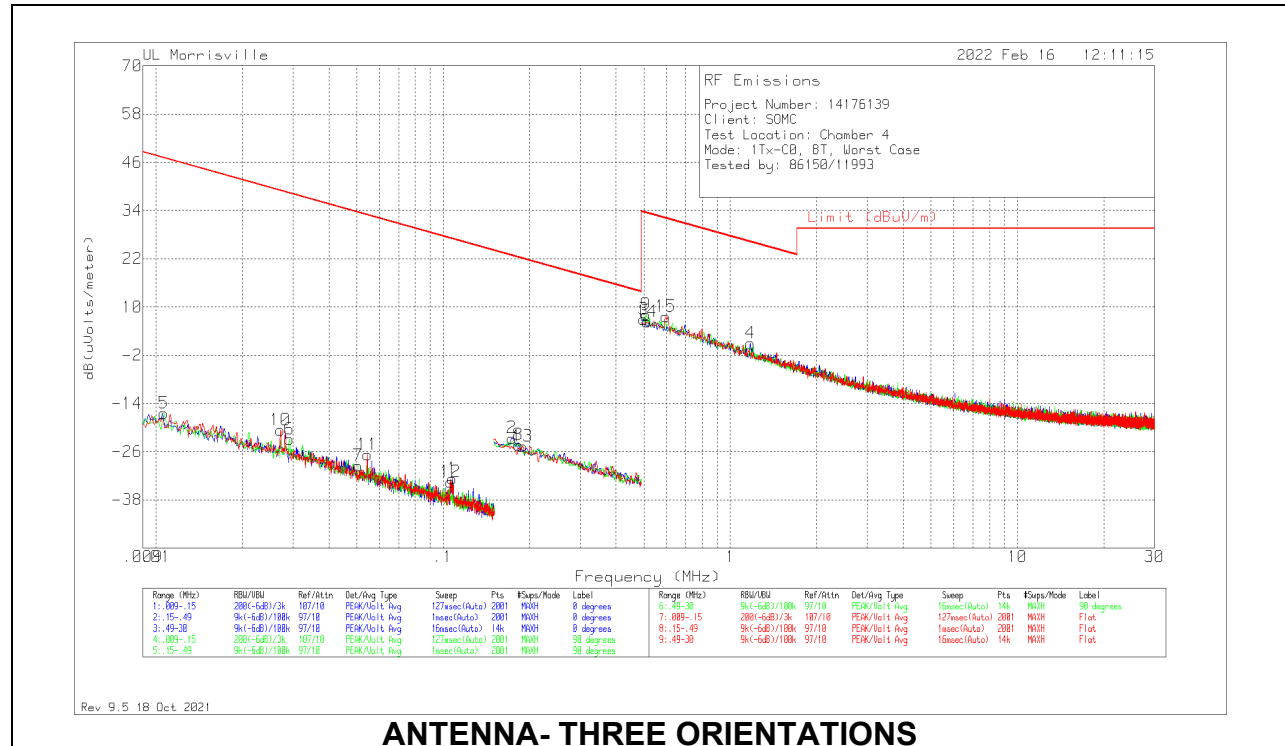
PK2 - Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

10.2. WORST CASE BELOW 30MHz

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).

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION CHAIN 0)

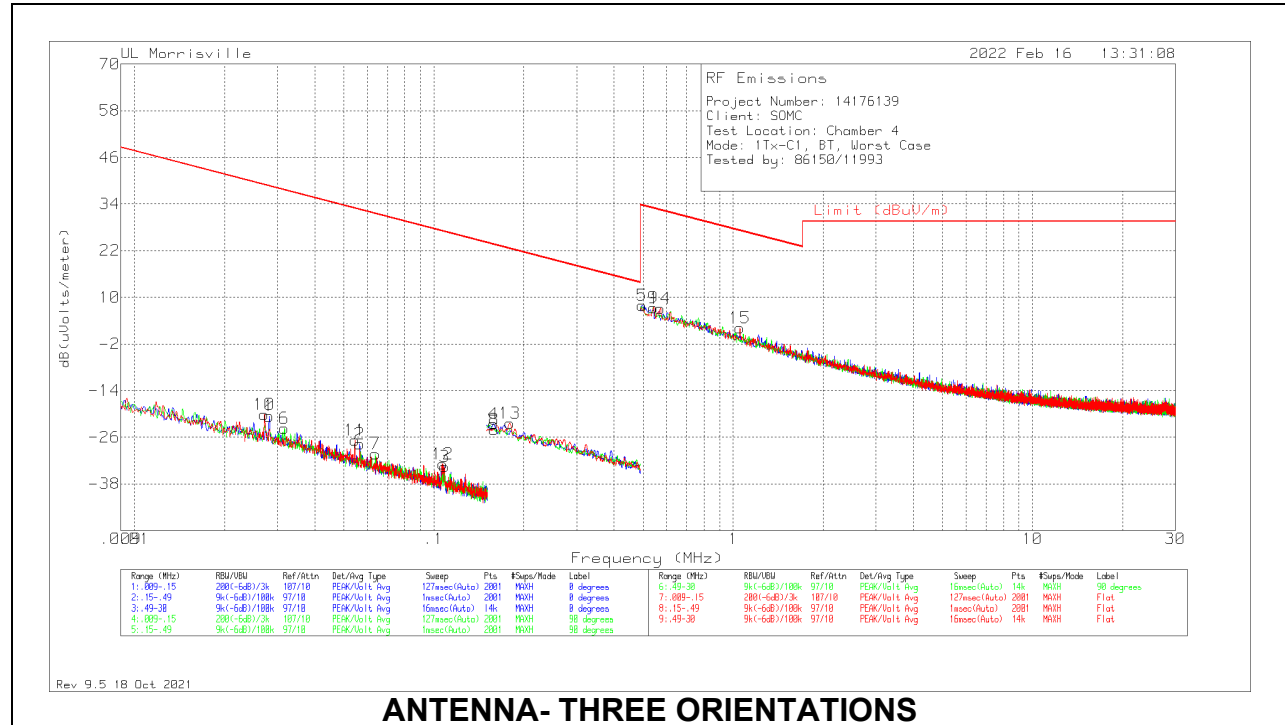


ANTENNA- THREE ORIENTATIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.01063	45.35	Pk	18.1	.1	-80	-16.45	47.07	67.07	-63.52	0-360
10	.02718	45.7	Pk	13.5	.1	-80	-20.7	38.92	58.92	-59.62	0-360
6	.02916	43.6	Pk	13.4	.1	-80	-22.9	38.31	58.31	-61.21	0-360
7	.05046	38.55	Pk	11.8	.1	-80	-29.55	33.54	53.54	-63.09	0-360
11	.05451	41.45	Pk	11.7	.1	-80	-26.75	32.87	52.87	-59.62	0-360
12	.10634	35	Pk	11.4	.1	-80	-33.5	27.07	-	-60.57	0-360
1	.10769	35.72	Pk	11.4	.1	-80	-32.78	26.96	-	-59.74	0-360
2	.17389	46.05	Pk	11.2	.1	-80	-22.65	22.8	42.8	-45.45	0-360
8	.18307	44.41	Pk	11.2	.1	-80	-24.29	22.35	42.35	-46.64	0-360
13	.18919	44.03	Pk	11.2	.1	-80	-24.67	22.07	42.07	-46.74	0-360
3	.49843	35.62	Pk	11.2	.2	-40	7.02	33.65	-	-26.63	0-360
9	.50897	36.75	Pk	11.2	.2	-40	8.15	33.47	-	-25.32	0-360
14	.51319	34.89	Pk	11.2	.2	-40	6.29	33.4	-	-27.11	0-360
15	.5954	36.13	Pk	11.2	.2	-40	7.53	32.11	-	-24.58	0-360
4	1.1751	29.41	Pk	11.3	.2	-40	.91	26.2	-	-25.29	0-360

Pk - Peak detector

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION CHAIN 1)



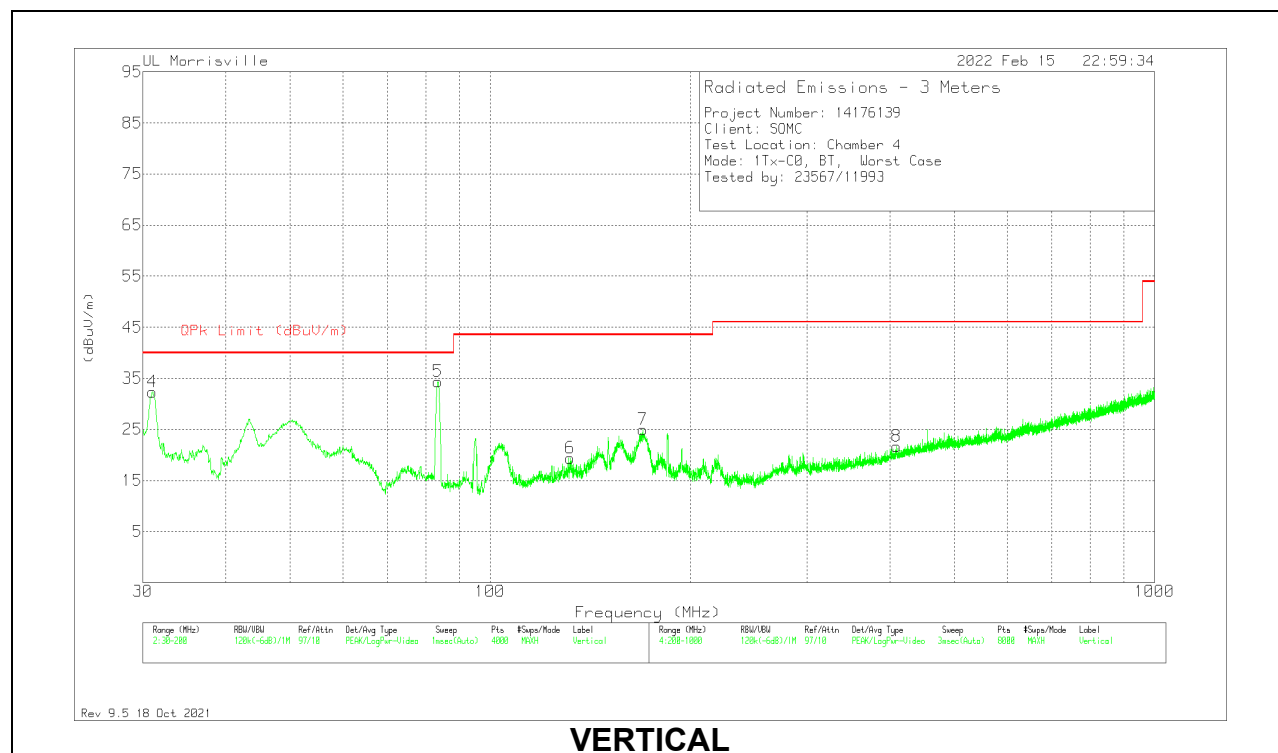
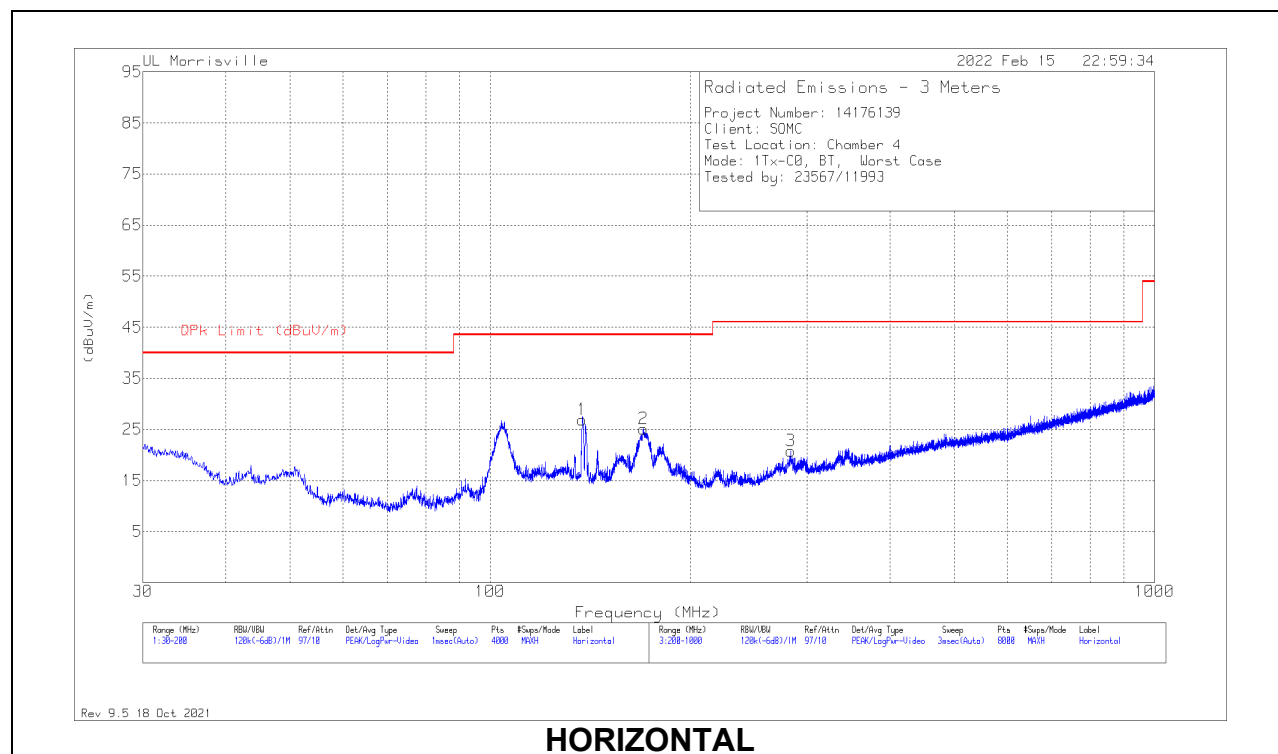
ANTENNA- THREE ORIENTATIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
10	.02718	46.22	Pk	13.5	.1	-80	-20.18	38.92	58.92	-59.1	0-360
1	.02824	45.85	Pk	13.5	.1	-80	-20.55	38.59	58.59	-59.14	0-360
6	.03172	42.97	Pk	13.2	.1	-80	-23.73	37.58	57.58	-61.31	0-360
11	.05451	41.46	Pk	11.7	.1	-80	-26.74	32.87	52.87	-59.61	0-360
2	.05657	40.44	Pk	11.7	.1	-80	-27.76	32.55	52.55	-60.31	0-360
7	.06381	38.06	Pk	11.6	.1	-80	-30.24	31.51	51.51	-61.75	0-360
12	.10705	35.62	Pk	11.4	.1	-80	-32.88	27.01	-	-59.89	0-360
3	.10861	34.9	Pk	11.4	.1	-80	-33.6	26.89	-	-60.49	0-360
4	.15825	46.12	Pk	11.2	.1	-80	-22.58	23.62	43.62	-46.2	0-360
8	.15918	44.72	Pk	11.2	.1	-80	-23.98	23.57	43.57	-47.55	0-360
13	.17907	46.29	Pk	11.2	.1	-80	-22.41	22.54	42.54	-44.95	0-360
5	.49632	36.58	Pk	11.2	.2	-40	7.98	33.69	-	-25.71	0-360
9	.54059	35.92	Pk	11.2	.2	-40	7.32	32.95	-	-25.63	0-360
14	.5701	35.73	Pk	11.2	.2	-40	7.13	32.48	-	-25.35	0-360
15	1.05284	30.56	Pk	11.3	.2	-40	2.06	27.16	-	-25.1	0-360

Pk - Peak detector

10.3. WORST CASE 30-1000MHz

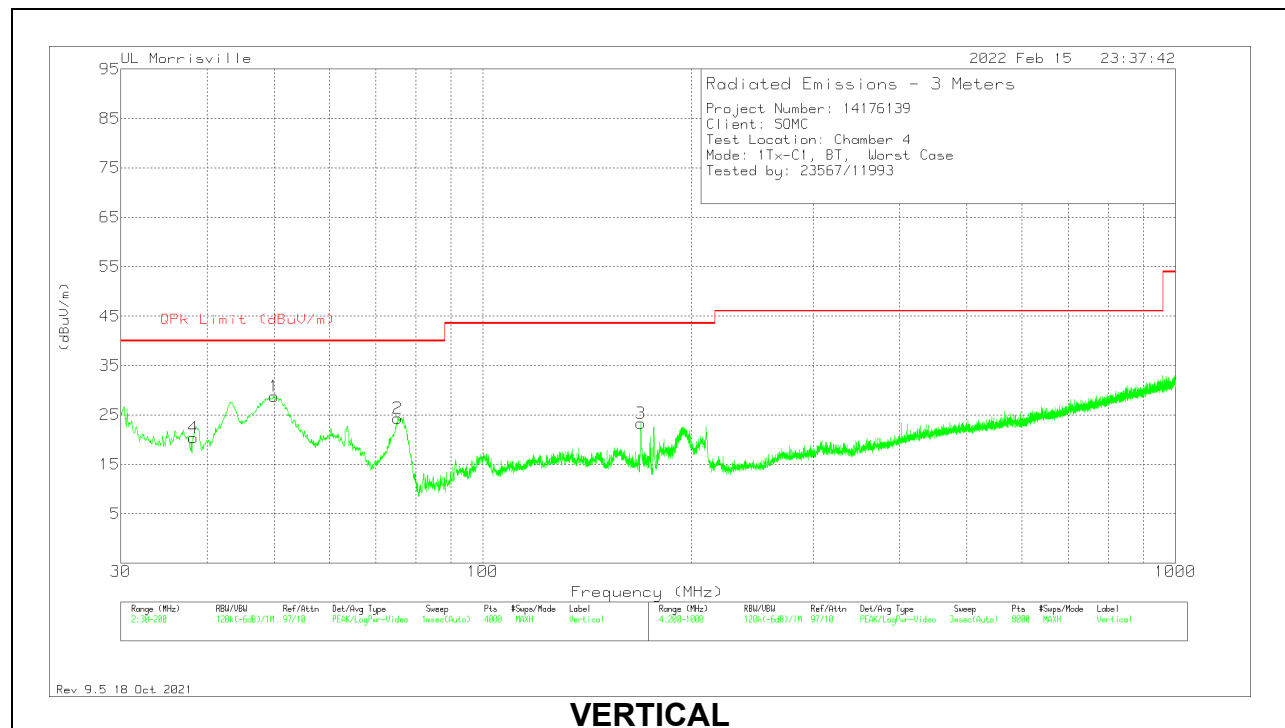
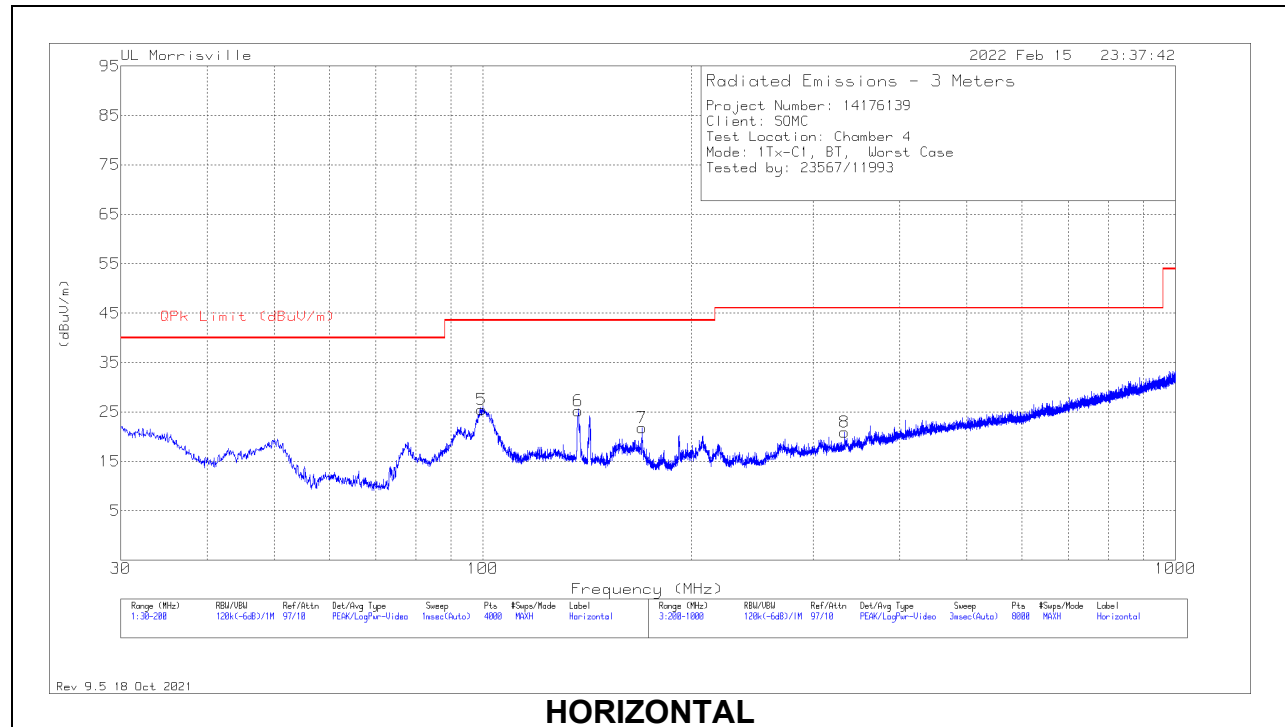
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION CHAIN 0)



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206210 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 137.5103	39.34	Pk	17.2	-29.7	26.84	43.52	-16.68	0-360	100	H
2	* ** 169.9887	38.66	Pk	15.8	-29.4	25.06	43.52	-18.46	0-360	100	H
6	* ** 132.0264	31.37	Pk	17.7	-29.7	19.37	43.52	-24.15	0-360	100	V
7	* ** 169.8187	38.56	Pk	15.8	-29.4	24.96	43.52	-18.56	0-360	100	V
3	* ** 283.3108	31.82	Pk	17.4	-28.4	20.82	46.02	-25.2	0-360	100	H
8	* ** 408.9272	29.11	Pk	20	-27.5	21.61	46.02	-24.41	0-360	100	V
4	31.0203	39.66	Pk	24	-31.3	32.36	-	-	0-360	100	V
5	83.3938	53.28	Pk	11.4	-30.3	34.38	-	-	0-360	100	V

Pk - Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION CHAIN 1)



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206210 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* ** 137.3828	37.64	Pk	17.3	-29.7	25.24	43.52	-18.28	0-360	100	H
7	* ** 169.7762	35.4	Pk	15.8	-29.4	21.8	43.52	-21.72	0-360	100	H
2	** 75.3592	42.69	Pk	12.1	-30.5	24.29	40	-15.71	0-360	100	V
3	* ** 168.9685	36.77	Pk	15.9	-29.4	23.27	43.52	-20.25	0-360	100	V
4	* ** 38.1621	32.32	Pk	19.2	-31.1	20.42	40	-19.58	0-360	100	V
8	* ** 332.8173	30.89	Pk	18	-28	20.89	46.02	-25.13	0-360	200	H
1	49.9377	47.94	Pk	11.7	-30.9	28.74	-	-	0-360	100	V
5	99.6755	41.22	Pk	14.4	-30.1	25.52	-	-	0-360	200	H

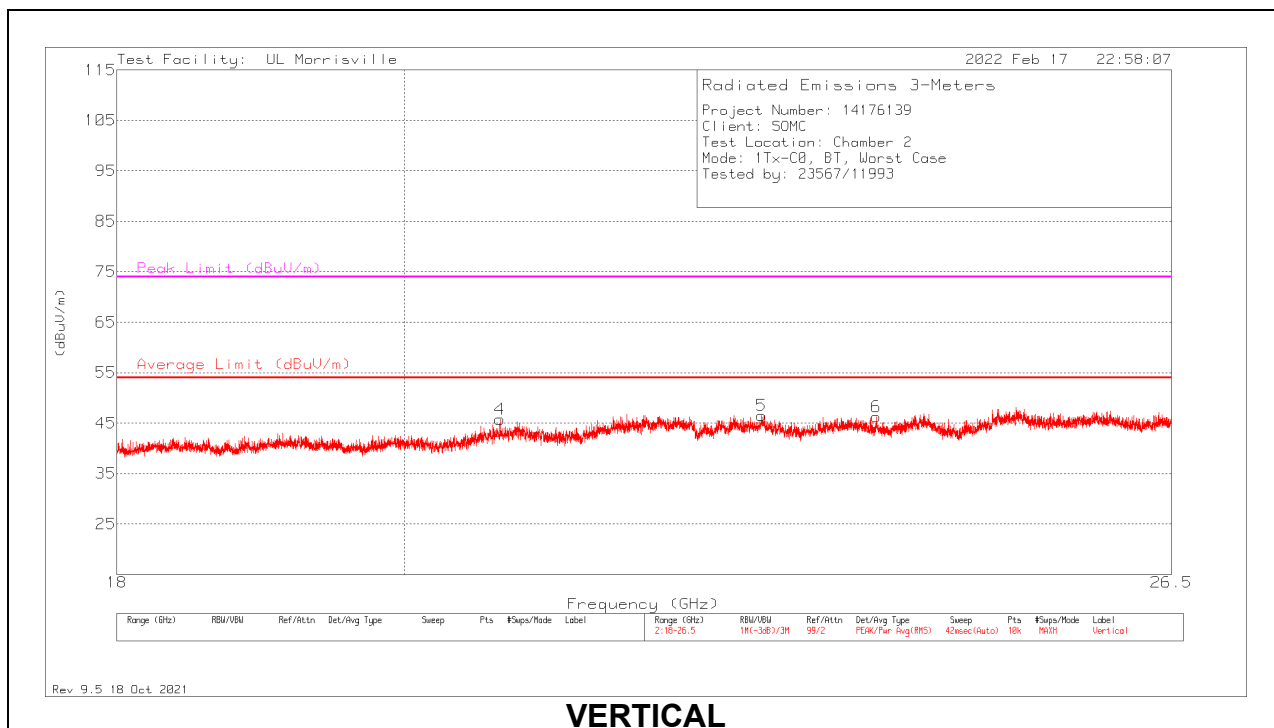
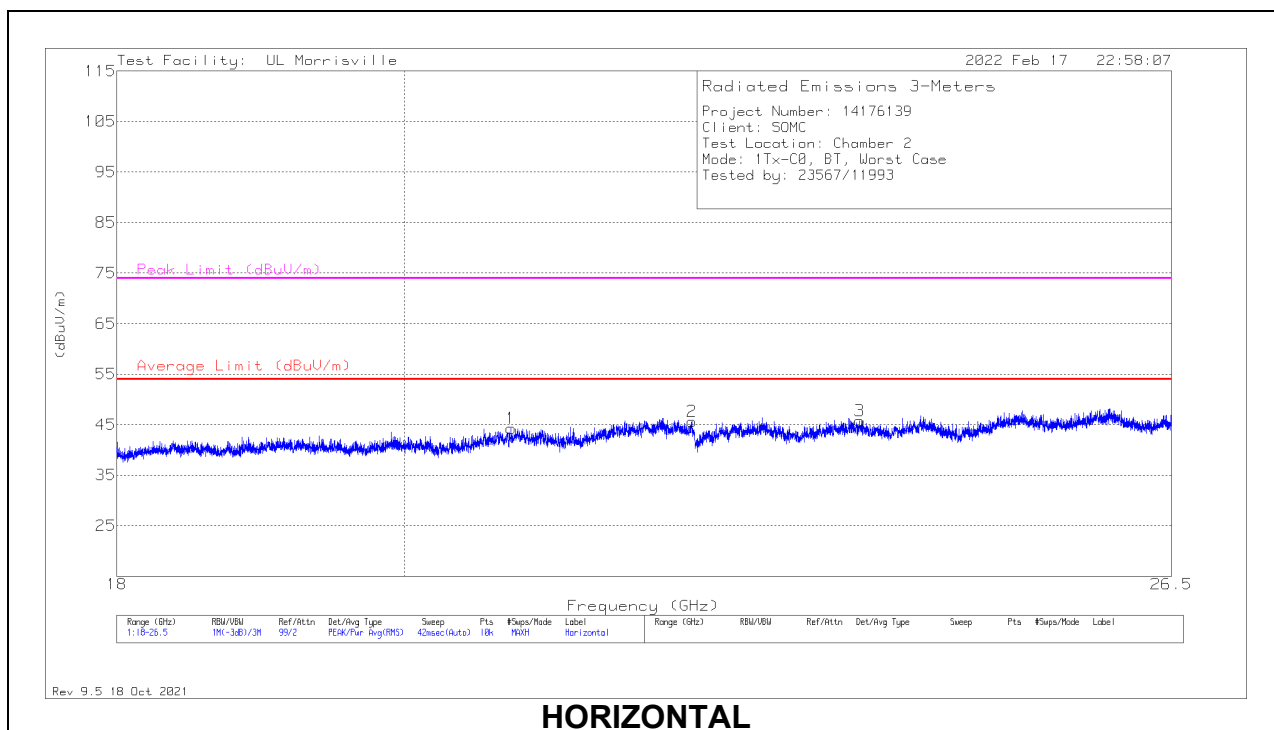
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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 CHAIN 0)



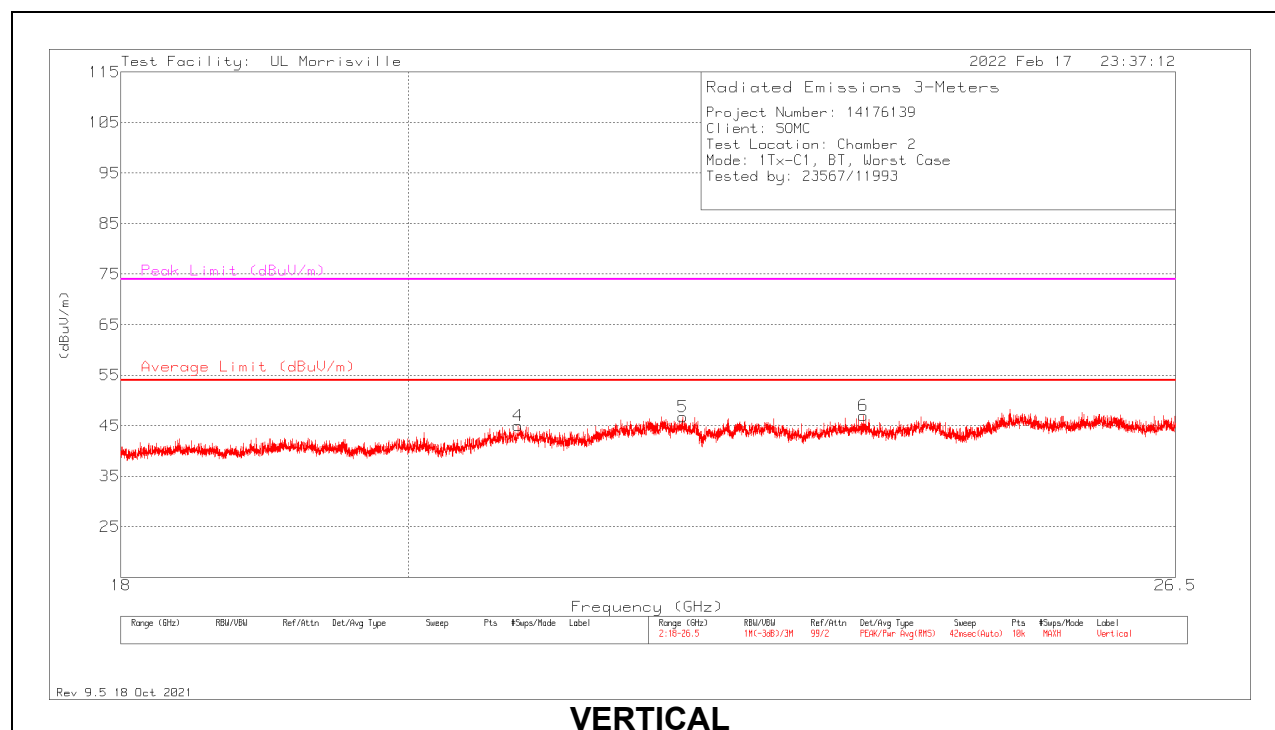
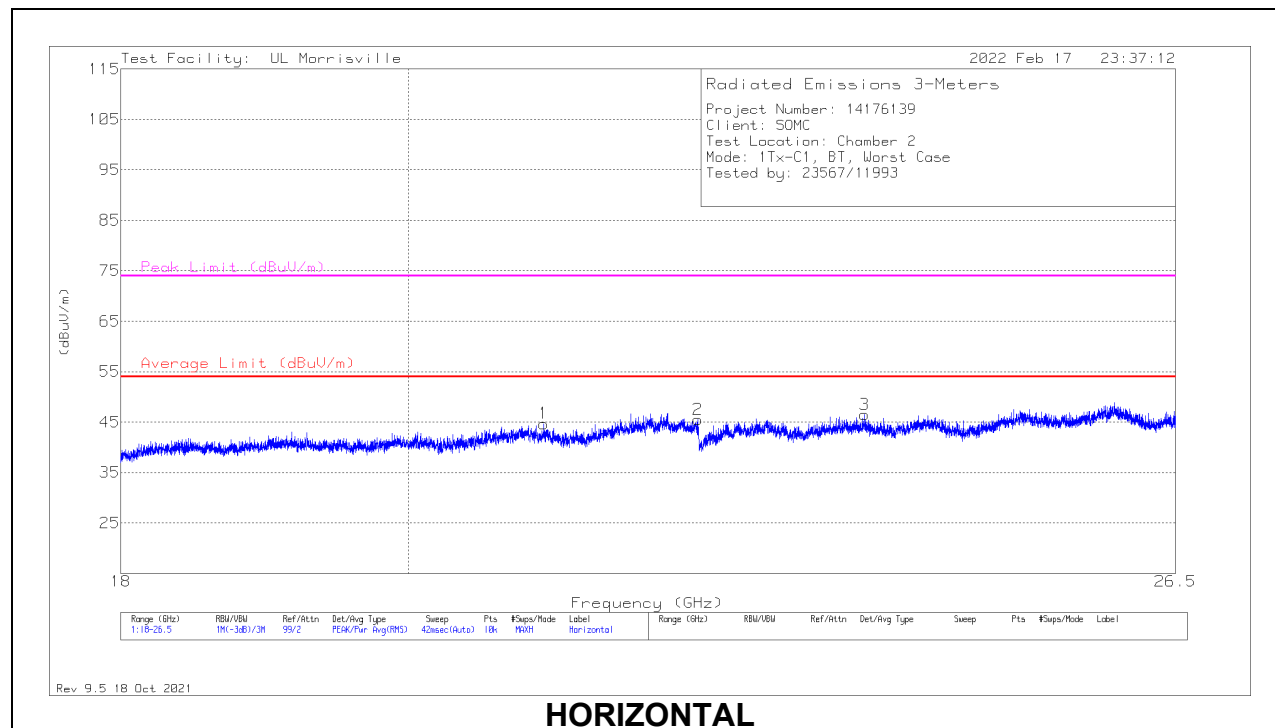
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 20.80132	48.71	Pk	34	-38.4	44.31	54	-9.69	74	-29.69	0-360	101	H
2	* ** 22.22748	46.89	Pk	36.8	-38.1	45.59	54	-8.41	74	-28.41	0-360	200	H
3	* ** 23.63664	48.26	Pk	34.9	-37.4	45.76	54	-8.24	74	-28.24	0-360	249	H
4	* ** 20.71548	50.05	Pk	33.9	-38.2	45.75	54	-8.25	74	-28.25	0-360	150	V
5	* ** 22.80372	48.15	Pk	35.8	-37.4	46.55	54	-7.45	74	-27.45	0-360	299	V
6	* ** 23.78197	48.1	Pk	34.9	-36.7	46.3	54	-7.7	74	-27.7	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

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION CHAIN 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 21.02145	48.2	Pk	34.2	-37.7	44.7	54	-9.3	74	-29.3	0-360	150	H
2	* ** 22.24193	46.77	Pk	36.8	-38.1	45.47	54	-8.53	74	-28.53	0-360	150	H
3	* ** 23.64684	49.08	Pk	34.9	-37.5	46.48	54	-7.52	74	-27.52	0-360	150	H
4	* ** 20.82427	49.33	Pk	34	-38.3	45.03	54	-8.97	74	-28.97	0-360	200	V
5	* ** 22.11869	47.5	Pk	37	-37.8	46.7	54	-7.3	74	-27.3	0-360	150	V
6	* ** 23.63494	49.36	Pk	34.9	-37.3	46.96	54	-7.04	74	-27.04	0-360	250	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 C63.4.

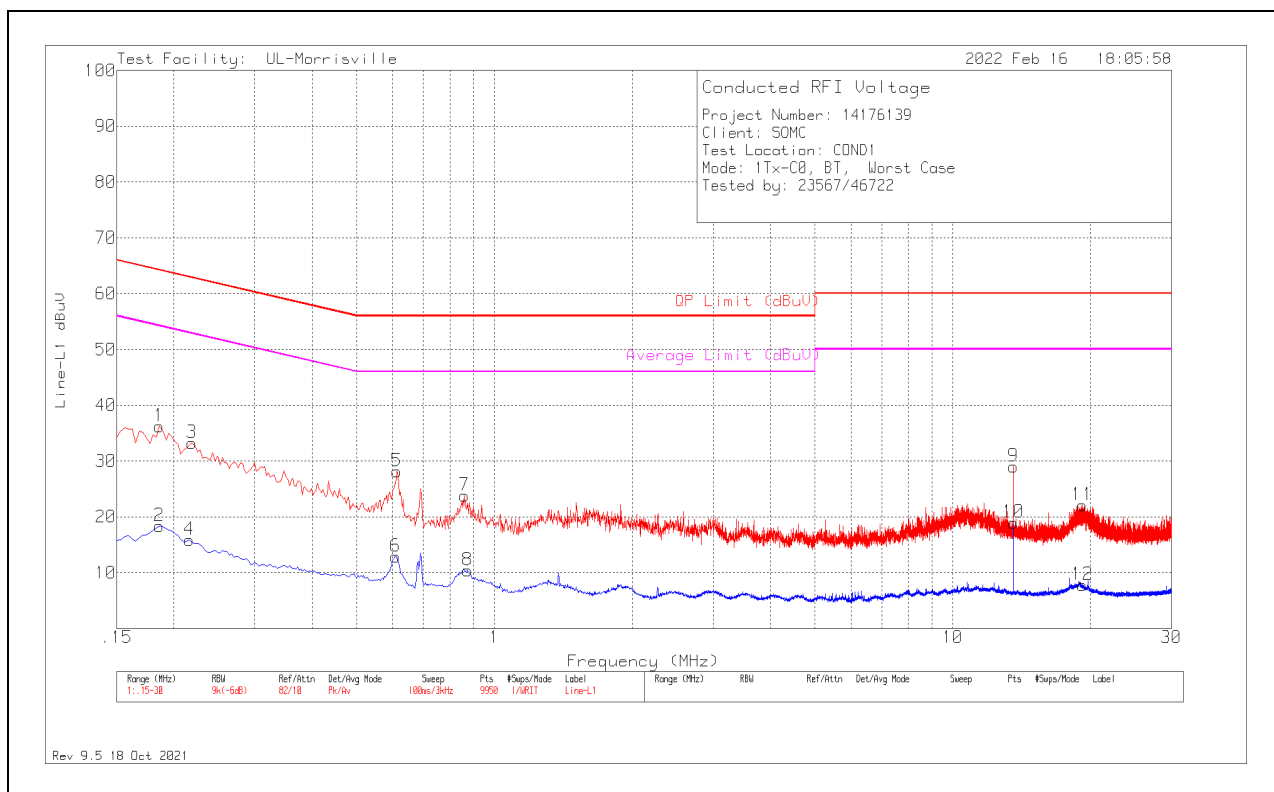
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1.1. AC Power Line Norm – CHAIN 0

LINE 1 RESULTS



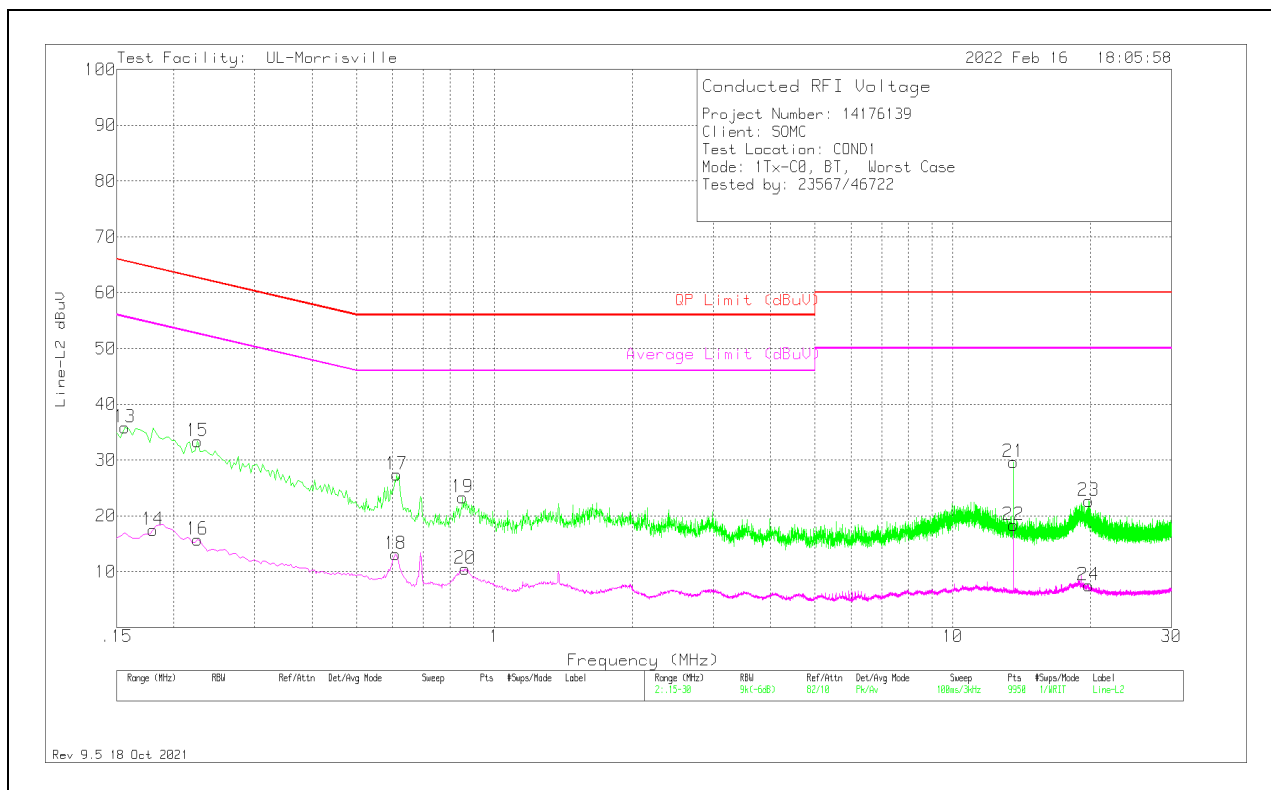
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.186	26.23	Pk	.2	9.8	36.23	64.21	-27.98	-	-
2	.186	8.33	Av	.2	9.8	18.33	-	-	54.21	-35.88
3	.219	23.32	Pk	.1	9.8	33.22	62.86	-29.64	-	-
4	.216	5.92	Av	.1	9.8	15.82	-	-	52.97	-37.15
5	.612	18.36	Pk	0	9.8	28.16	56	-27.84	-	-
6	.609	3.11	Av	0	9.8	12.91	-	-	46	-33.09
7	.861	14.03	Pk	0	9.8	23.83	56	-32.17	-	-
8	.873	.6	Av	0	9.8	10.4	-	-	46	-35.6
9	13.563	18.83	Pk	.1	10.1	29.03	60	-30.97	-	-
10	13.56	8.73	Av	.1	10.1	18.93	-	-	50	-31.07
11	19.206	11.72	Pk	.2	10.2	22.12	60	-37.88	-	-
12	19.203	-2.56	Av	.2	10.2	7.84	-	-	50	-42.16

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



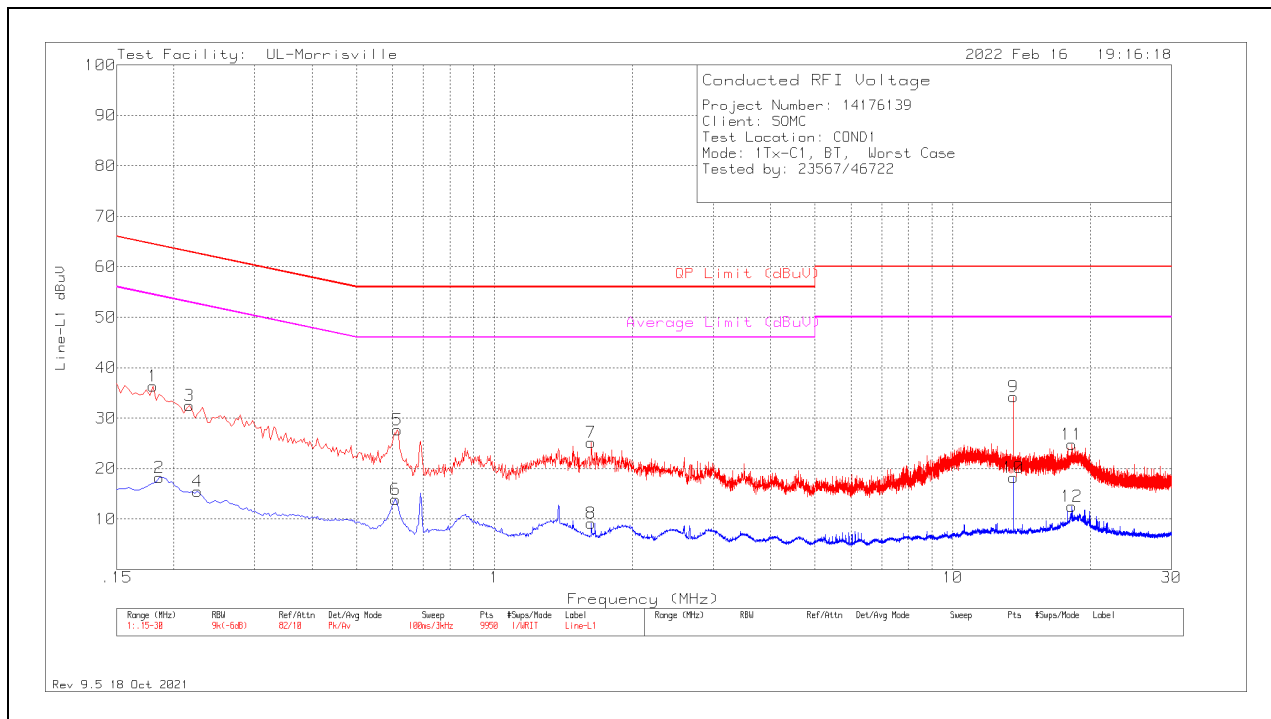
Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.156	25.81	Pk	.2	9.8	35.81	65.67	-29.86	-	-
14	.18	7.49	Av	.2	9.8	17.49	-	-	54.49	-37
15	.225	23.5	Pk	.1	9.8	33.4	62.63	-29.23	-	-
16	.225	5.81	Av	.1	9.8	15.71	-	-	52.63	-36.92
17	.612	17.59	Pk	0	9.8	27.39	56	-28.61	-	-
18	.609	3.27	Av	0	9.8	13.07	-	-	46	-32.93
19	.852	13.54	Pk	0	9.8	23.34	56	-32.66	-	-
20	.864	.73	Av	0	9.8	10.53	-	-	46	-35.47
21	13.563	19.41	Pk	.1	10.1	29.61	60	-30.39	-	-
22	13.56	8.17	Av	.1	10.1	18.37	-	-	50	-31.63
23	19.785	12.24	Pk	.2	10.2	22.64	60	-37.36	-	-
24	19.767	-2.88	Av	.2	10.2	7.52	-	-	50	-42.48

Pk - Peak detector

Av - Average detection

11.1.2. AC Power Line Norm – CHAIN 1

LINE 1 RESULTS

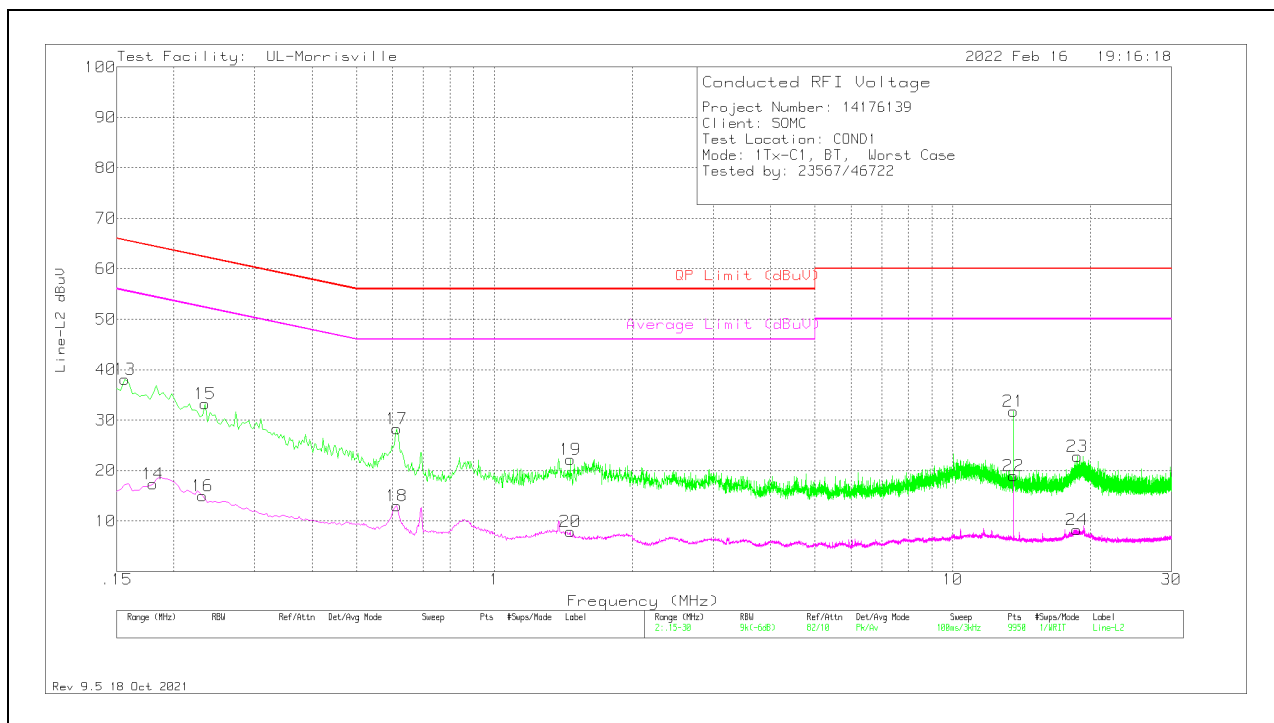


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.18	26.34	Pk	.2	9.8	36.34	64.49	-28.15	-	-
2	.186	8.26	Av	.2	9.8	18.26	-	-	54.21	-35.95
3	.216	22.54	Pk	.1	9.8	32.44	62.97	-30.53	-	-
4	.225	5.56	Av	.1	9.8	15.46	-	-	52.63	-37.17
6	.609	4.12	Av	0	9.8	13.92	-	-	46	-32.08
5	.615	17.86	Pk	0	9.8	27.66	56	-28.34	-	-
7	1.626	15.38	Pk	0	9.8	25.18	56	-30.82	-	-
8	1.626	-7	Av	0	9.8	9.1	-	-	46	-36.9
9	13.56	24	Pk	.1	10.1	34.2	60	-25.8	-	-
10	13.56	7.97	Av	.1	10.1	18.17	-	-	50	-31.83
11	18.171	14.6	Pk	.1	10.1	24.8	60	-35.2	-	-
12	18.171	2.33	Av	.1	10.1	12.53	-	-	50	-37.47

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.156	28.1	Pk	.2	9.8	38.1	65.67	-27.57	-	-
14	.18	7.35	Av	.2	9.8	17.35	-	-	54.49	-37.14
15	.234	23.33	Pk	.1	9.8	33.23	62.31	-29.08	-	-
16	.231	5.08	Av	.1	9.8	14.98	-	-	52.41	-37.43
17	.612	18.52	Pk	0	9.8	28.32	56	-27.68	-	-
18	.612	3.19	Av	0	9.8	12.99	-	-	46	-33.01
19	1.464	12.43	Pk	0	9.8	22.23	56	-33.77	-	-
20	1.464	-1.89	Av	0	9.8	7.91	-	-	46	-38.09
21	13.56	21.52	Pk	.1	10.1	31.72	60	-28.28	-	-
22	13.56	8.8	Av	.1	10.1	19	-	-	50	-31
23	18.69	12.63	Pk	.1	10.1	22.83	60	-37.17	-	-
24	18.675	-1.97	Av	.1	10.1	8.23	-	-	50	-41.77

Pk - Peak detector

Av - Average detection

12. SETUP PHOTOS

Please refer to R14176139-EP2 for setup photos

END OF TEST REPORT