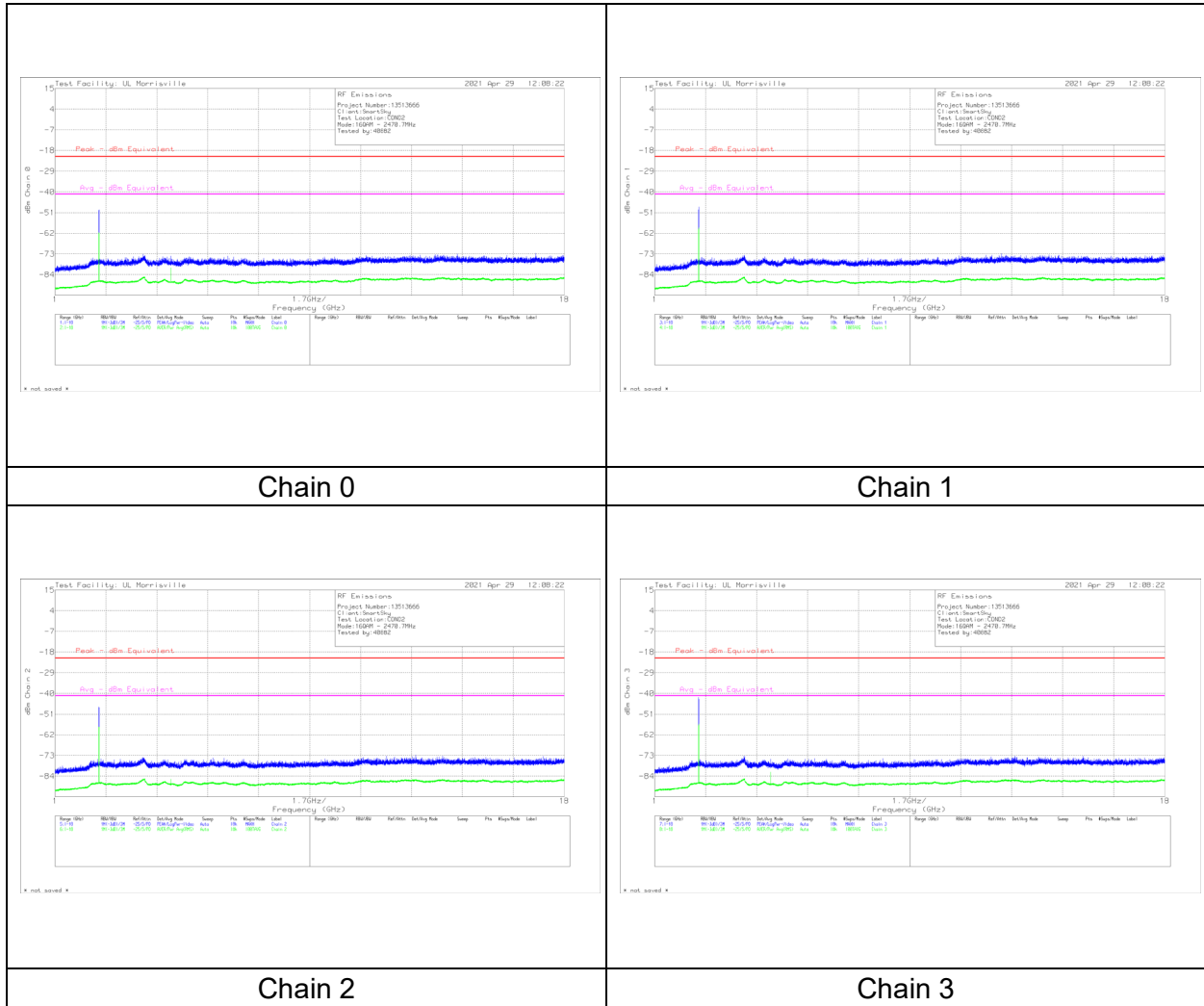


### 11.8.5. HIGH CHANNEL SPURIOUS: 1-18 GHz

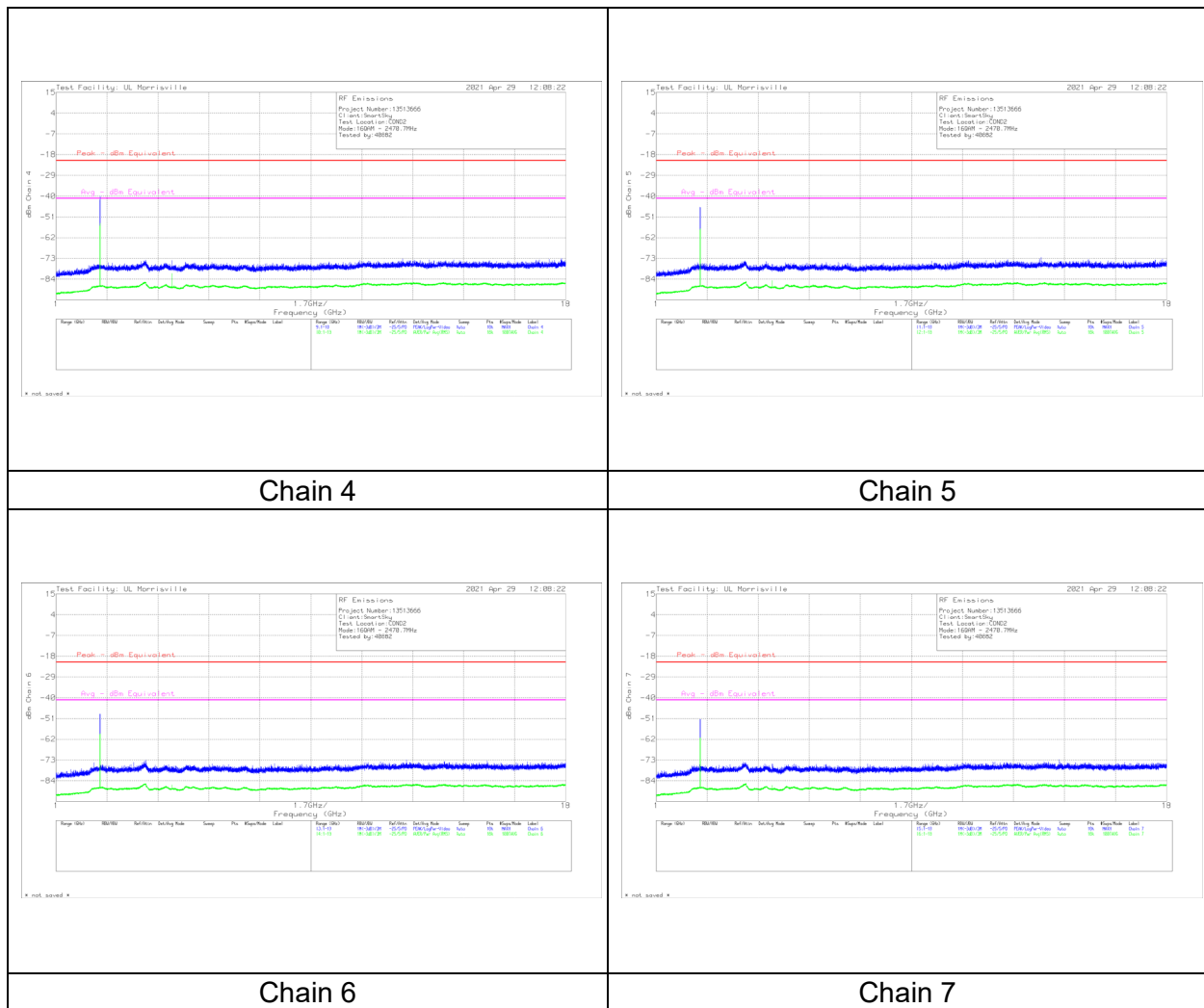


Chain 0

Chain 1

Chain 2

Chain 3

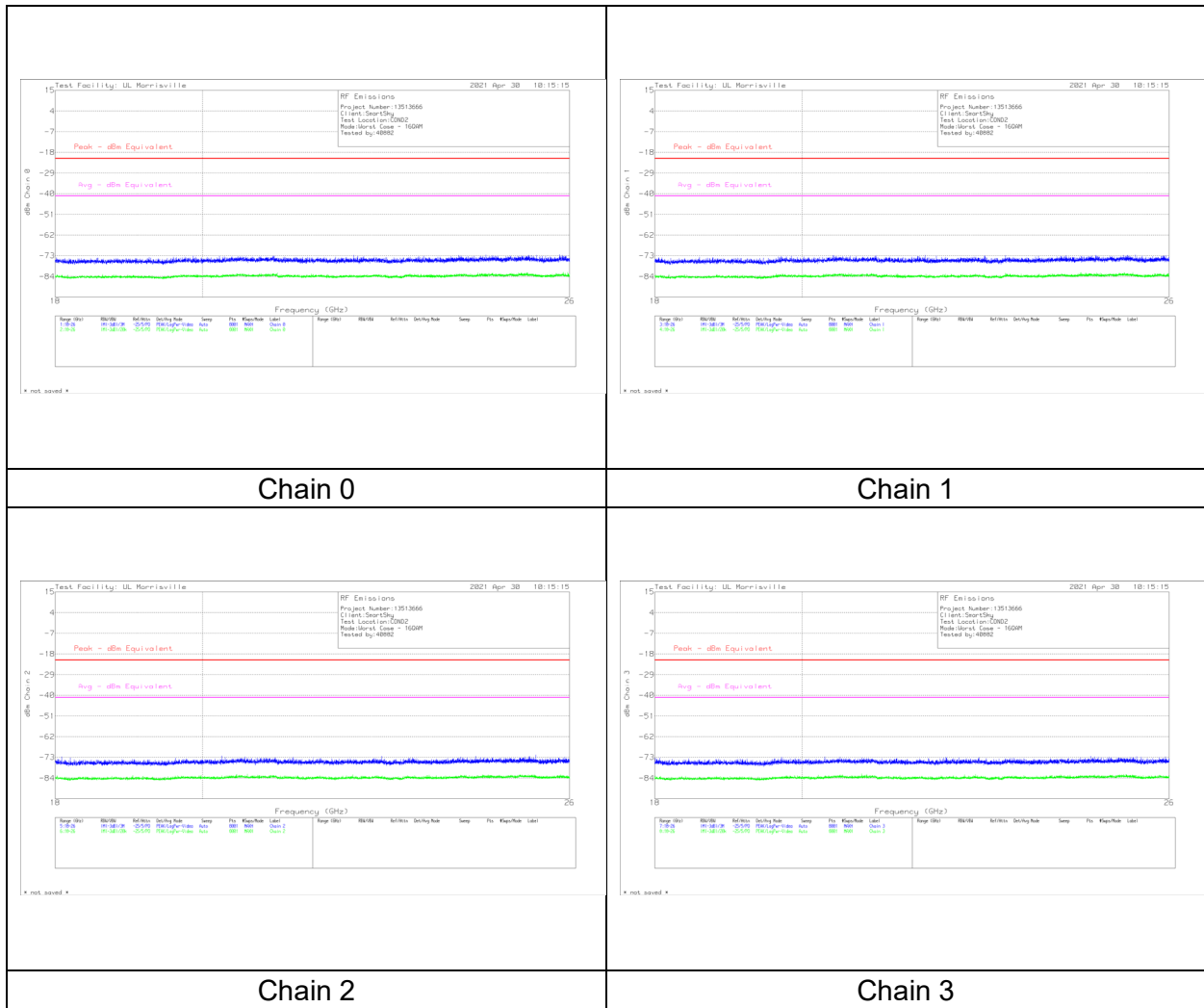


**Spurious High Channel Tabular Summed Data, Worse-case Frequency:**

Chain	0	1	2	3	4	5	6	7	GRF (dB)	Array Gain (dBi)	Meas. Dist (m)	
Gain (dBi)	-	-	-	-	-	-	-	-	0	26.8	3	
Frequency (GHz)	PK Value Chain 0 (dBm)	PK Value Chain 1 (dBm)	PK Value Chain 2 (dBm)	PK Value Chain 3 (dBm)	PK Value Chain 4 (dBm)	PK Value Chain 5 (dBm)	PK Value Chain 6 (dBm)	PK Value Chain 7 (dBm)	PK EIRP (dBm)	PK E-field (dBuV/m)	PK E-field Limit (dBuV/m)	PK E-field Margin (dB)
17.857381	-75.26	-76.23	-75.83	-75.01	-73.02	-73.55	-76.73	-75.73	-39.16	56.09	74	-17.91
Frequency (GHz)	AV Value Chain 0 (dBm)	AV Value Chain 1 (dBm)	AV Value Chain 2 (dBm)	AV Value Chain 3 (dBm)	AV Value Chain 4 (dBm)	AV Value Chain 5 (dBm)	AV Value Chain 6 (dBm)	AV Value Chain 7 (dBm)	AV EIRP (dBm)	AV E-field (dBuV/m)	AV E-field Limit (dBuV/m)	AV E-field Margin (dB)
4.865609	-80.24	-87.03	-85.65	-81.87	-80.94	-84.75	-86.17	-86.47	-47.55	47.71	54	-6.29

Note: GRF = Ground Reflection Factor per C63.10, Section 11.12.2.2. Fundamental emission not identified in tabular data.

### 11.8.6. WORSE-CASE CHANNEL SPURIOUS: 18-26 GHz

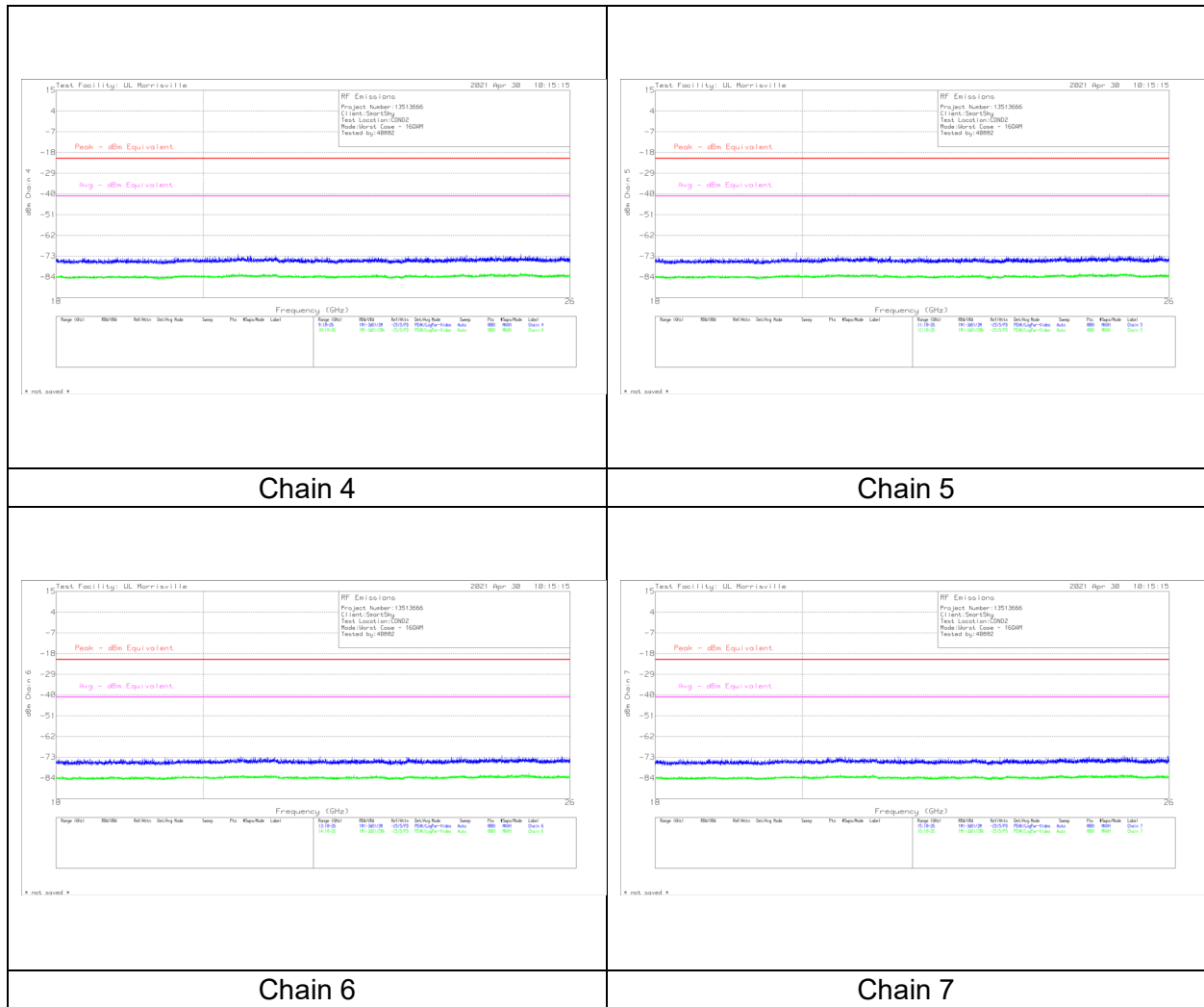


Chain 0

Chain 1

Chain 2

Chain 3

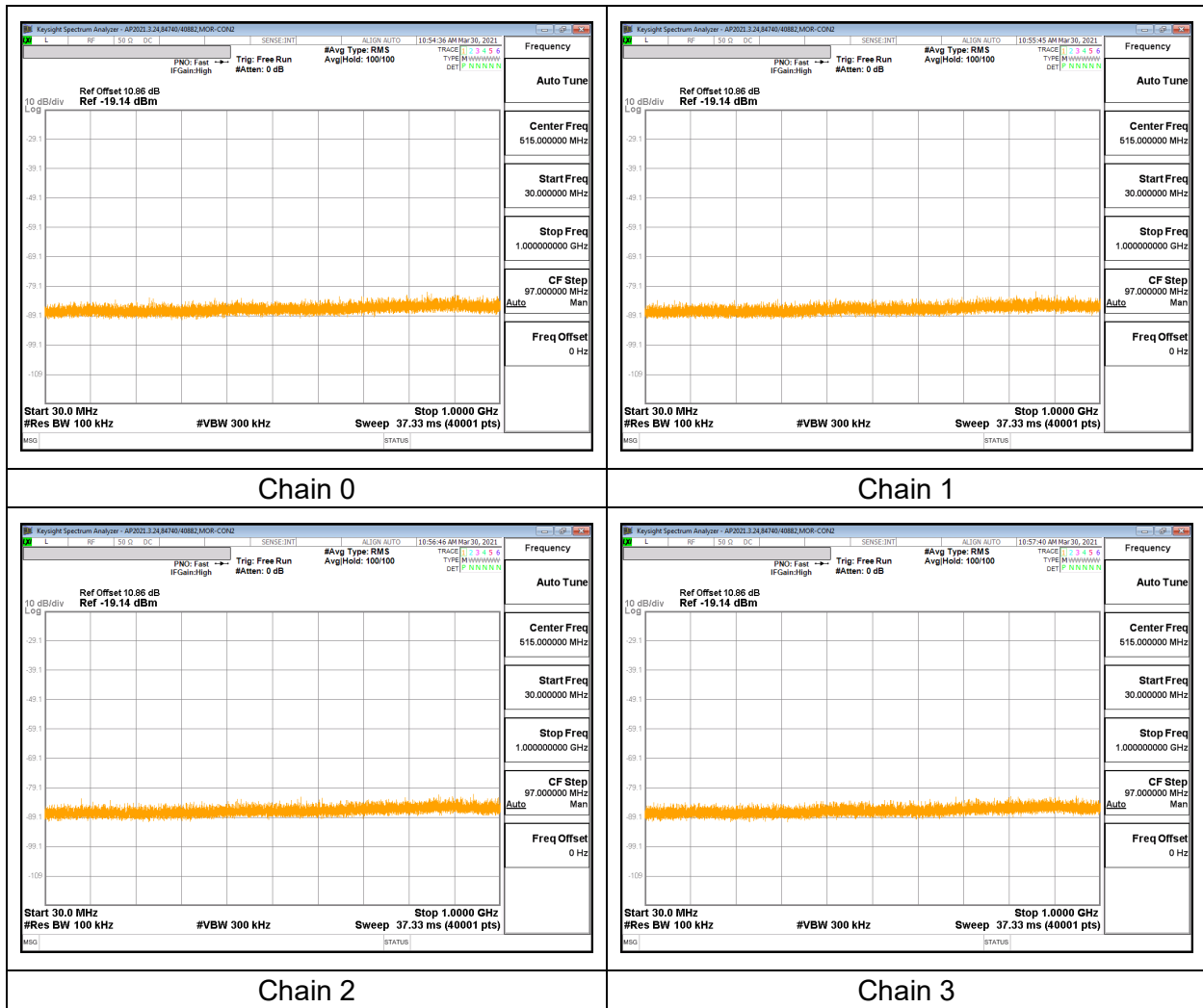


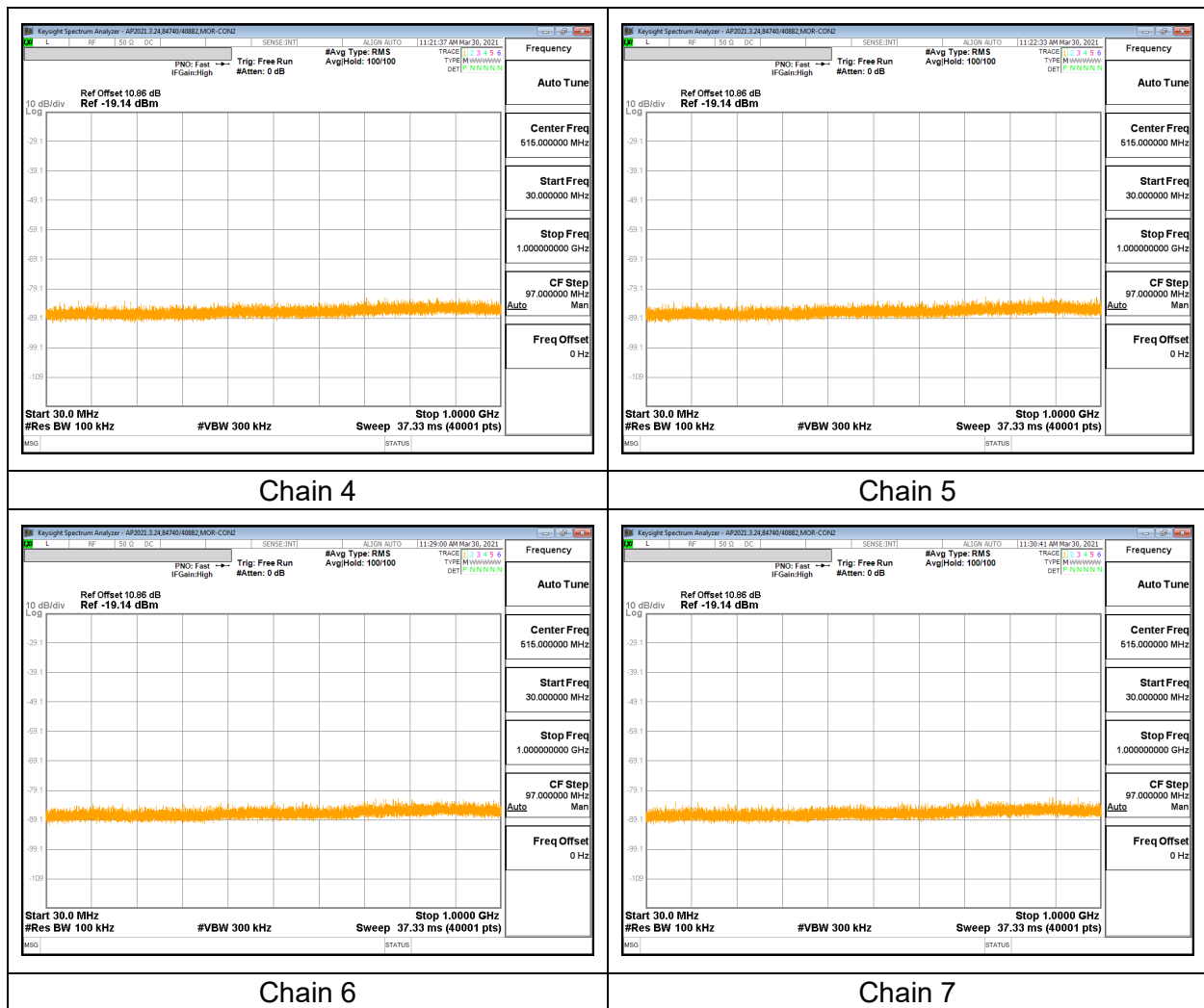
**Spurious High Channel Tabular Summed Data, Worse-case Frequency:**

Chain	0	1	2	3	4	5	6	7	GRF (dB)	Array Gain (dBi)	Meas. Dist (m)	
Gain (dBi)	-	-	-	-	-	-	-	-	0	26.8	3	
Frequency (GHz)	PK Value Chain 0 (dBm)	PK Value Chain 1 (dBm)	PK Value Chain 2 (dBm)	PK Value Chain 3 (dBm)	PK Value Chain 4 (dBm)	PK Value Chain 5 (dBm)	PK Value Chain 6 (dBm)	PK Value Chain 7 (dBm)	PK EIRP (dBm)	PK E-field (dBuV/m)	PK E-field Limit (dBuV/m)	PK E-field Margin (dB)
24.921	-74.4	-73.27	-73.96	-73.9	-73.11	-73.43	-74.71	-74.15	-38.00	57.25	74	-16.75
Frequency (GHz)	AV Value Chain 0 (dBm)	AV Value Chain 1 (dBm)	AV Value Chain 2 (dBm)	AV Value Chain 3 (dBm)	AV Value Chain 4 (dBm)	AV Value Chain 5 (dBm)	AV Value Chain 6 (dBm)	AV Value Chain 7 (dBm)	AV EIRP (dBm)	AV E-field (dBuV/m)	AV E-field Limit (dBuV/m)	AV E-field Margin (dB)
25.104	-82.55	-83.05	-82.71	-82.94	-81.78	-82.43	-83.09	-83.02	-46.84	48.41	54	-5.59

Note: GRF = Ground Reflection Factor per C63.10, Section 11.12.2.2

### 11.8.7. WORSE-CASE CHANNEL SPURIOUS: 30-1000 MHz





**Spurious Summed Data, Worse-case Frequency:**

Chain	0	1	2	3	4	5	6	7	GRF (dB)	Array Gain (dBi)	Meas. Dist (m)	
Gain (dBi)	-	-	-	-	-	-	-	-	4.7	26.8	3	
Frequency (MHz)	QP Value Chain 0 (dBm)	QP Value Chain 1 (dBm)	QP Value Chain 2 (dBm)	QP Value Chain 3 (dBm)	QP Value Chain 4 (dBm)	QP Value Chain 5 (dBm)	QP Value Chain 6 (dBm)	QP Value Chain 7 (dBm)	QK EIRP (dBm)	QP E-field (dBuV/m)	QP E-field Limit (dBuV/m)	QP E-field Margin (dB)
399.4	-96.36	-96.37	-96.39	-96.28	-96.34	-96.29	-96.32	-96.33	-55.80	39.45	46	-6.55

Note: GRF = Ground Reflection Factor per C63.10, Section 11.12.2.2

## 12. RADIATED TEST RESULTS

### 12.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205, 15.209, 15.247 (d)

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 and 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.

For this evaluation, Linear Voltage Averaging was used and the resolution/video bandwidth settings were 1MHz/3MHz when testing in FRB mode as this mode utilizes a constant duty cycle. Reduced Video Bandwidth Averaging was used in 3RB mode as this mode has duty cycles that are not constant. The worse-case minimum VBW in this mode is 20kHz. 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.

For this testing, all 8 antenna ports were terminated into 50Ω terminations (i.e. cabinet radiated emissions).

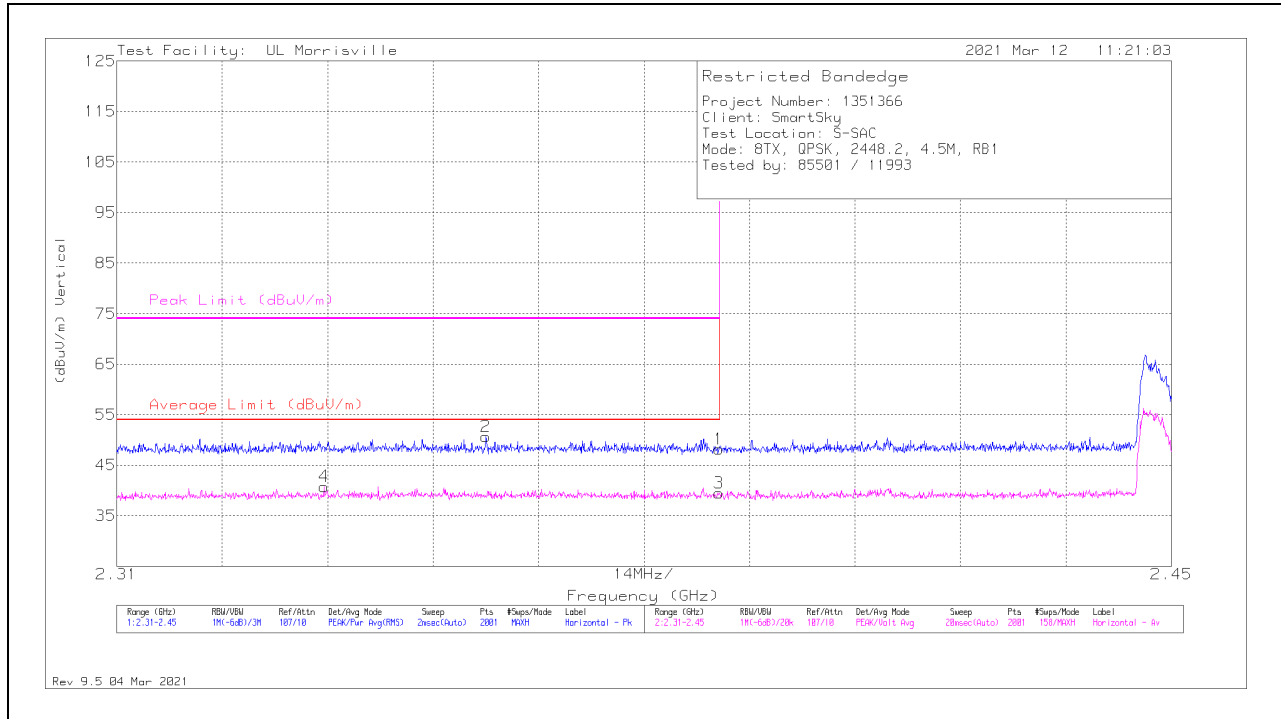


## 12.2. TRANSMITTER 1-18GHz – 3RB CONFIGURATION

### 12.2.1. TX ABOVE 1 GHz 4.5MHz, QPSK MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL)

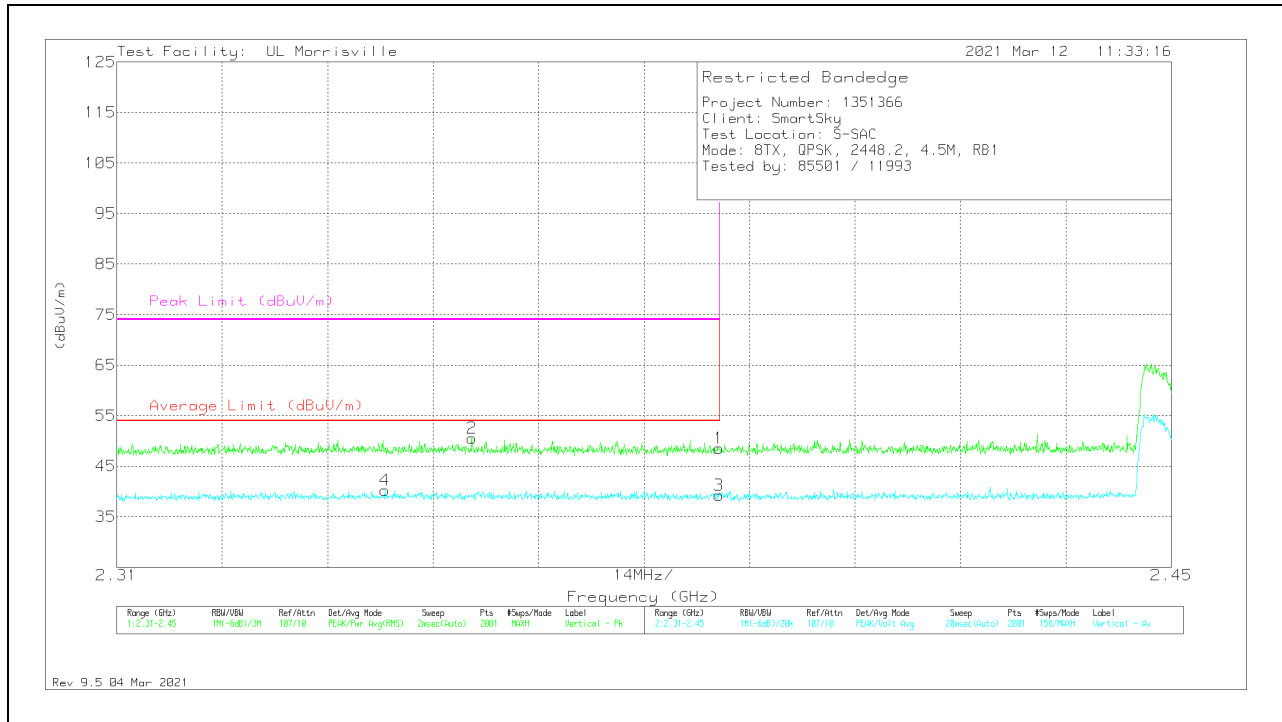
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38994	40.3	Pk	32.1	-24.2	48.2	-	-	74	-25.8	238	115	H
2	*** 2.359	42.78	PK	32.2	-24.3	50.68	-	-	74	-23.32	238	115	H
3	*** 2.38994	31.54	V1TV	32.1	-24.2	39.44	54	-14.56	-	-	238	115	H
4	*** 2.33751	32.89	V1TV	32.2	-24.3	40.79	54	-13.21	-	-	238	115	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

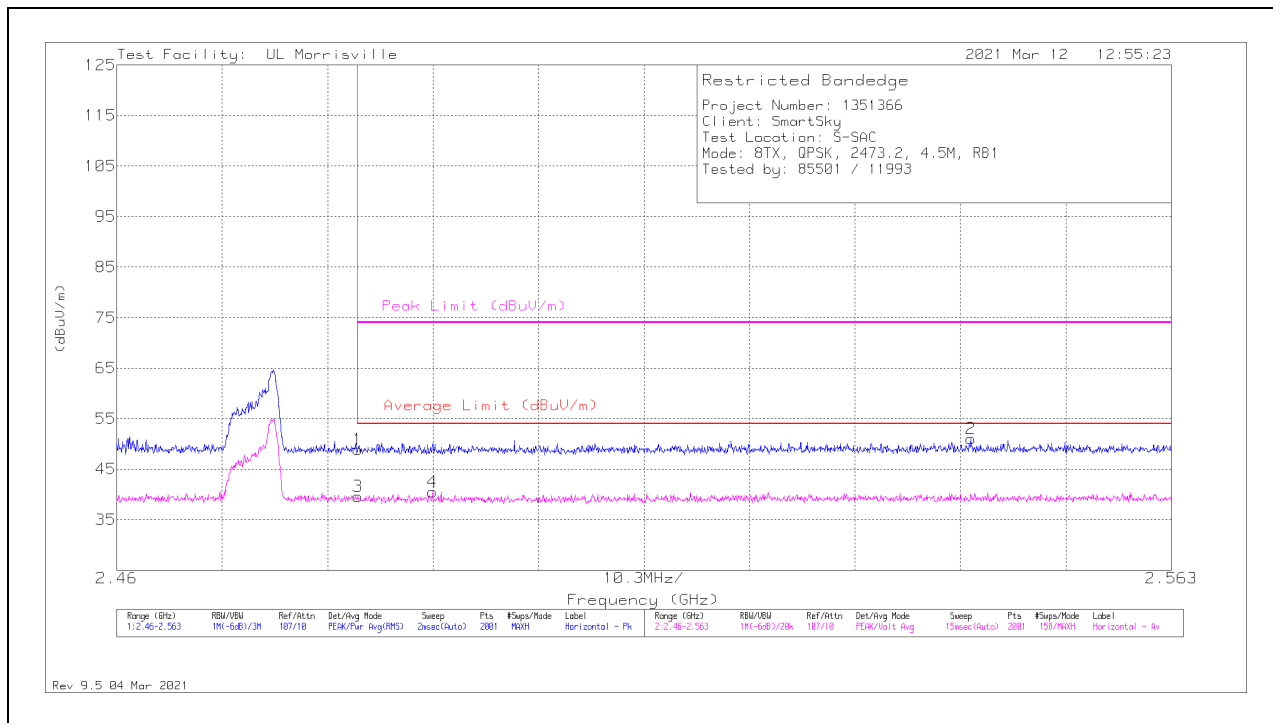


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38994	40.68	Pk	32.1	-24.2	48.58	-	-	74	-25.42	344	108	V
2	*** 2.35718	42.64	Pk	32.2	-24.3	50.54	-	-	74	-23.46	344	108	V
3	*** 2.38994	31.3	V1TV	32.1	-24.2	39.2	54	-14.8	-	-	344	108	V
4	*** 2.34556	32.29	V1TV	32.2	-24.3	40.19	54	-13.81	-	-	344	108	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)**

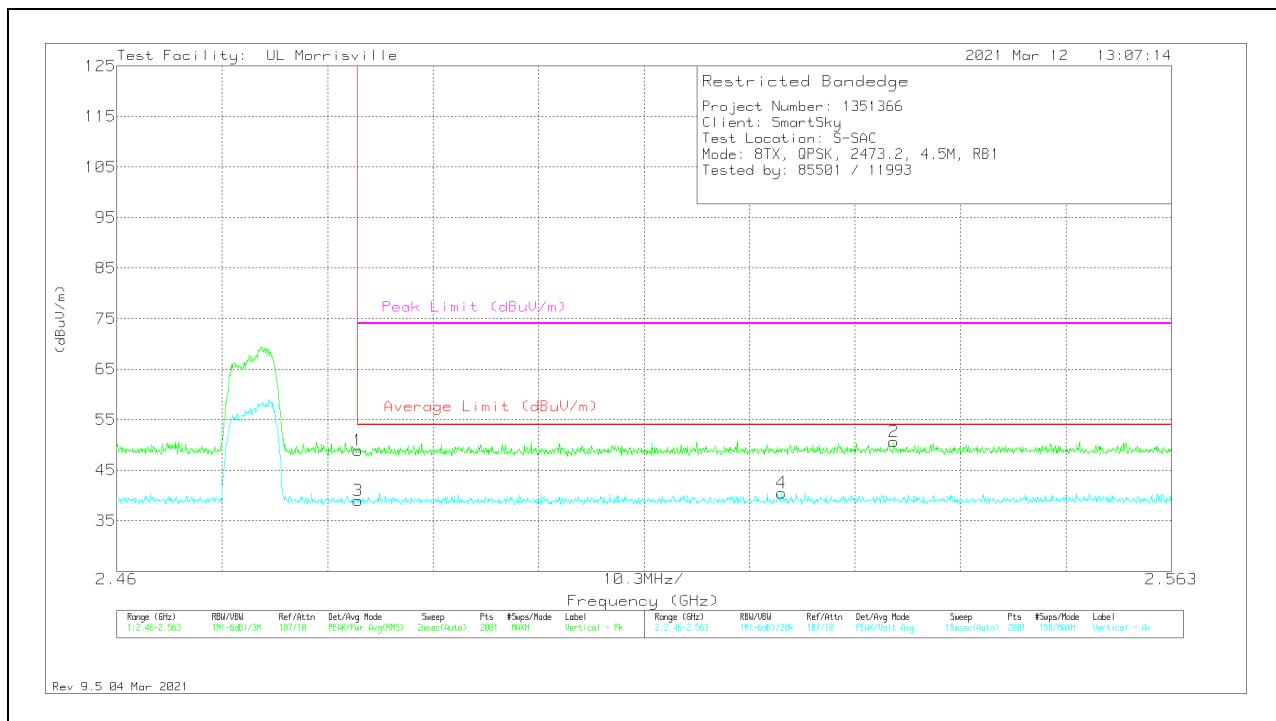
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.48354	40.57	Pk	32.4	-24.1	48.87	-	-	74	-25.13	257	235	H
2	** 2.54343	42.65	Pk	32.6	-24.2	51.05	-	-	74	-22.95	257	235	H
3	*** 2.48354	31.27	V1TV	32.4	-24.1	39.57	54	-14.43	-	-	257	235	H
4	*** 2.49085	32.27	V1TV	32.4	-24.2	40.47	54	-13.53	-	-	257	235	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

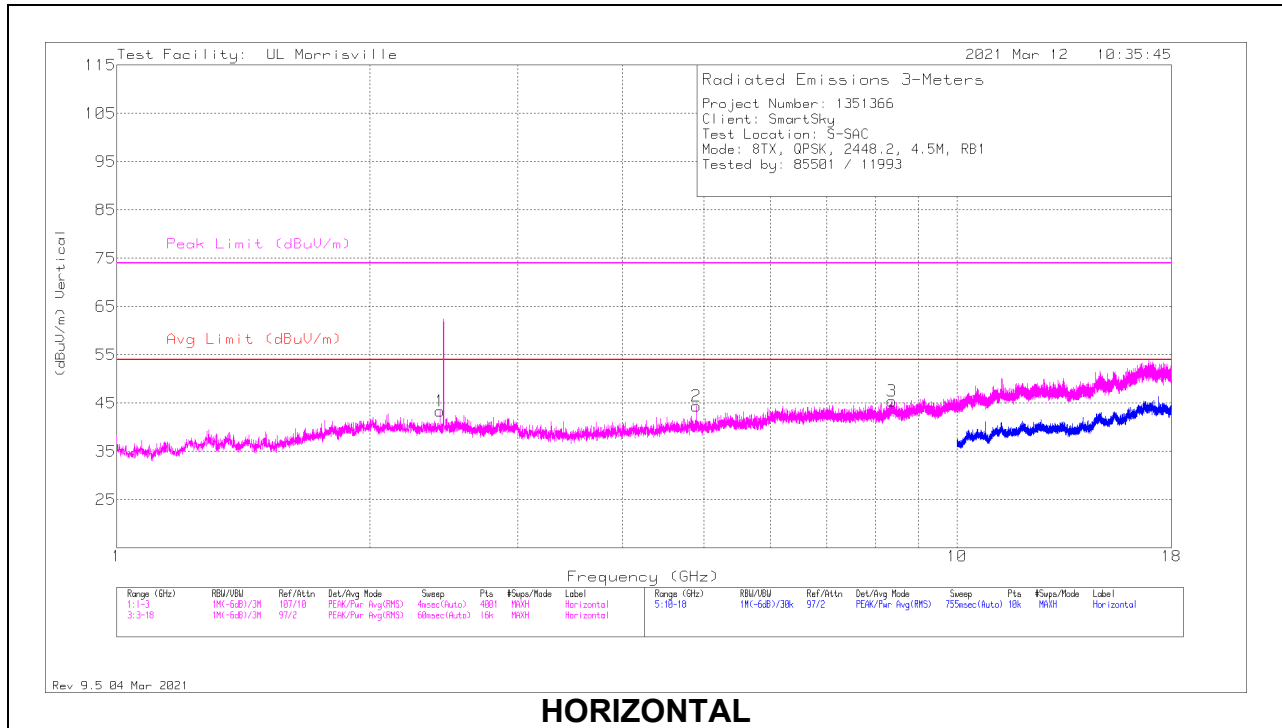


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	40.58	Pk	32.4	-24.1	48.88	-	-	74	-25.12	341	225	V
2	** 2.53591	42.2	Pk	32.6	-24.1	50.7	-	-	74	-23.3	341	225	V
3	*** 2.48354	30.71	V1TV	32.4	-24.1	39.01	54	-14.99	-	-	341	225	V
4	** 2.52494	32.14	V1TV	32.5	-24.1	40.54	54	-13.46	-	-	341	225	V

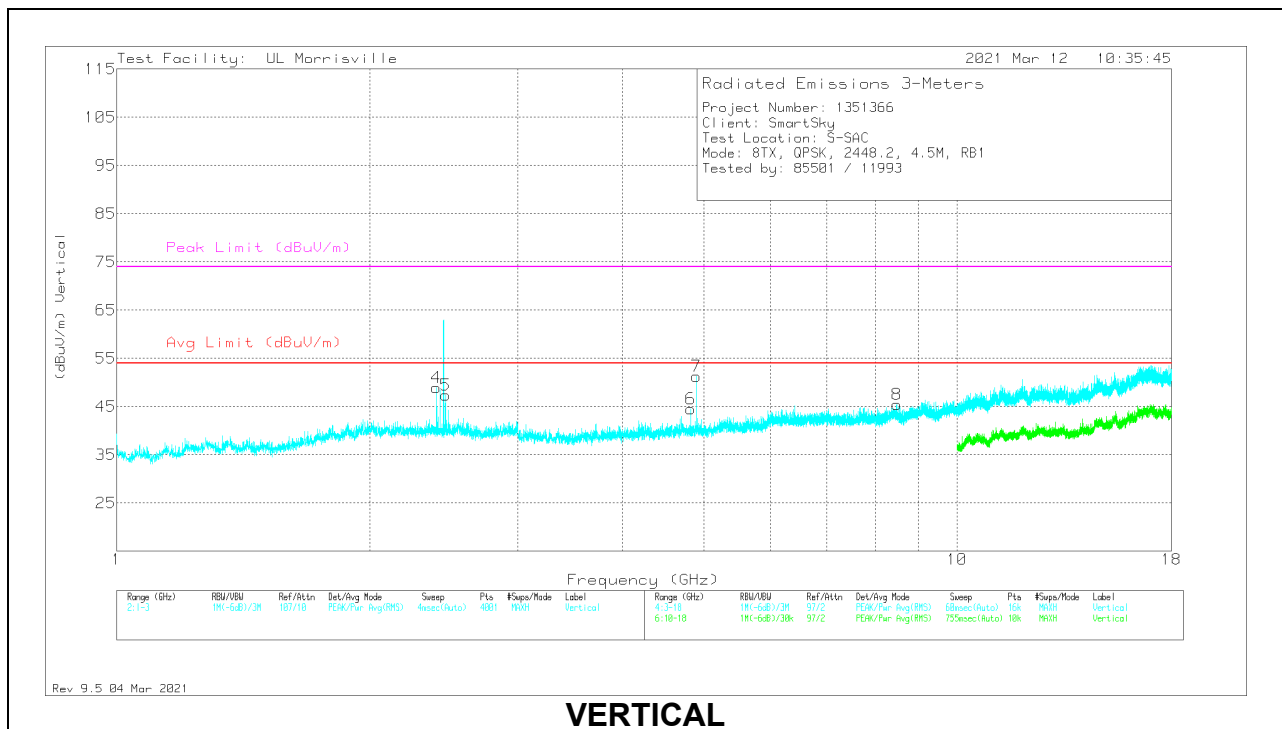
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



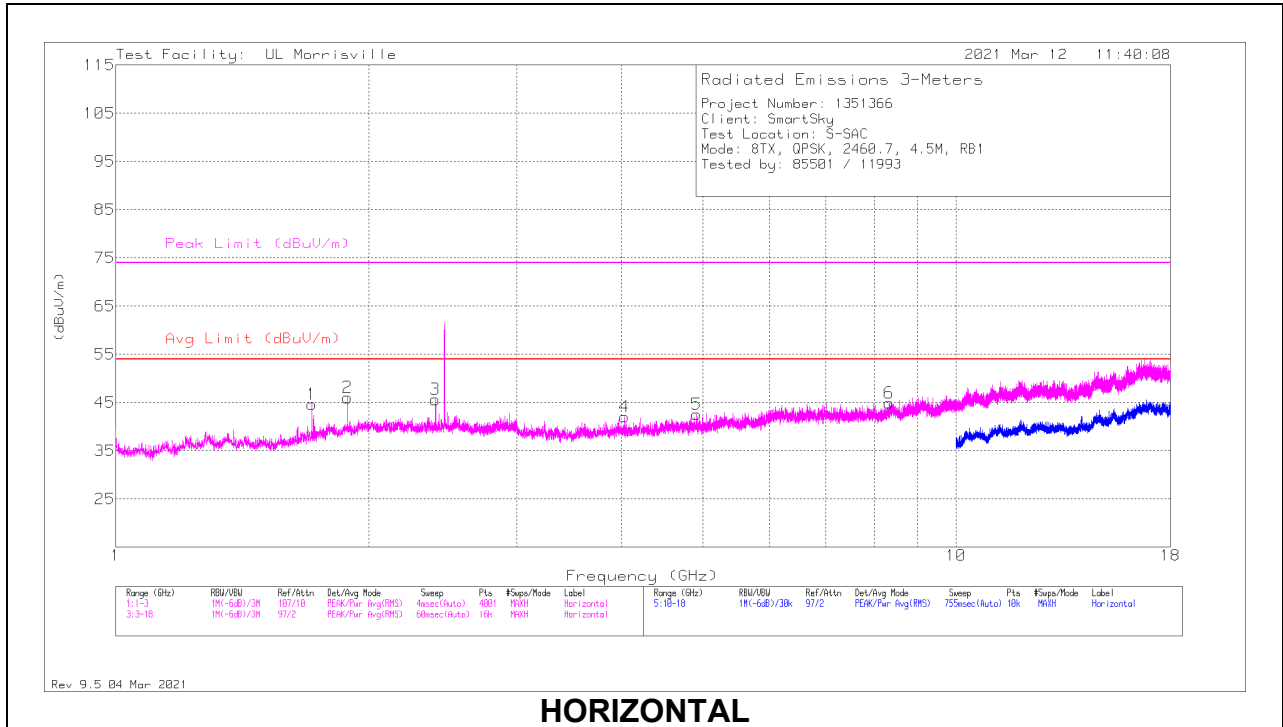
**VERTICAL**

**RADIATED EMISSIONS**

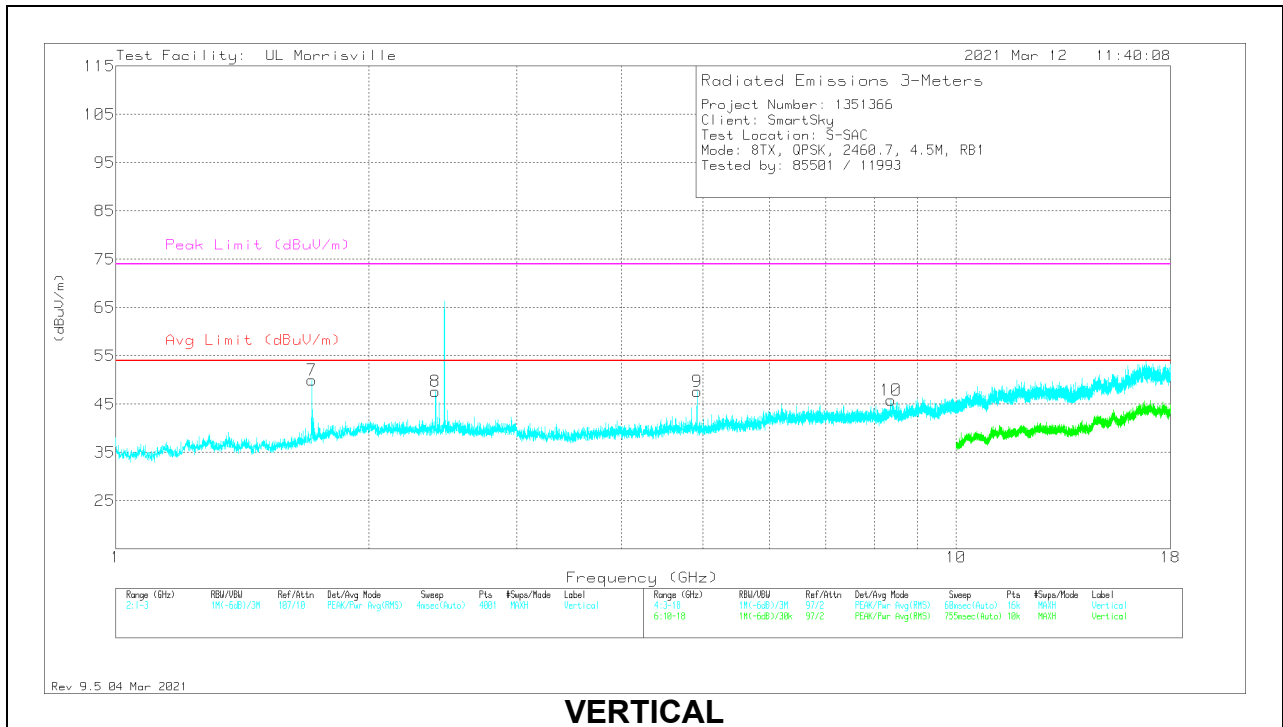
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*** 4.89563	41.31	Pk	34	-30.9	44.41	54	-9.59	74	-29.59	0-360	200	H
3	*** 8.37094	36.78	Pk	35.8	-27.1	45.48	54	-8.52	74	-28.52	0-360	200	H
6	*** 4.82063	41.49	Pk	34	-30.9	44.59	54	-9.41	74	-29.41	0-360	200	V
7	*** 4.89644	51.26	PK2	34	-30.9	54.36	-	-	74	-19.64	210	107	V
	*** 4.89634	45.25	V1TV	34	-30.9	48.35	54	-5.65	-	-	210	107	V
8	*** 8.47594	36.57	Pk	35.9	-27	45.47	54	-8.53	74	-28.53	0-360	101	V
4	2.402	40.98	Pk	32.1	-24.1	48.98	-	-	-	-	0-360	101	V
1	2.426	35.22	Pk	32.3	-24.1	43.42	-	-	-	-	0-360	200	H
5	2.464	39.32	Pk	32.5	-24.4	47.42	-	-	-	-	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 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

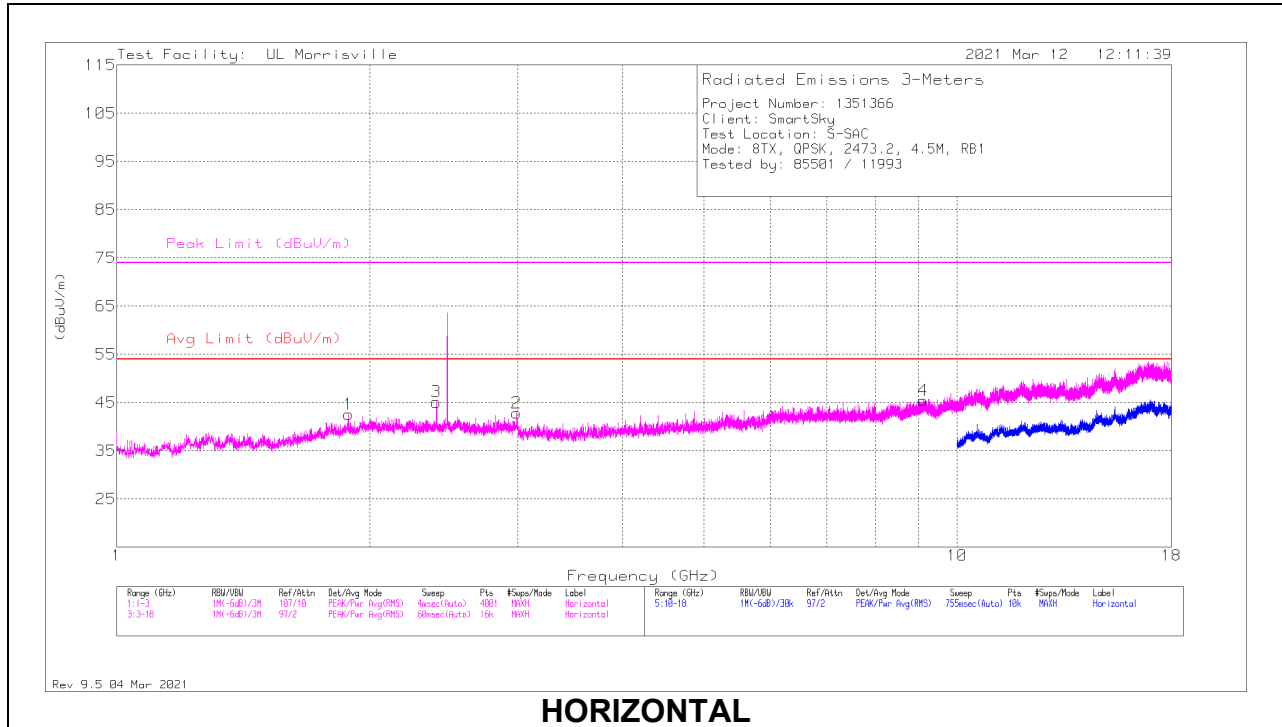
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	** 1.711	37.21	Pk	29.6	-22.1	44.71	54	-9.29	74	-29.29	0-360	200	H
2	** 1.888	37.13	Pk	31.2	-22.3	46.03	54	-7.97	74	-27.97	0-360	200	H
7	*** 1.67906	32.91	PK2	29.2	-22.1	40.01	-	-	74	-33.99	238	344	V
	*** 1.66937	23.2	V1TV	29	-22.2	30	54	-24	-	-	238	344	V
4	*** 4.03313	41.05	Pk	33.4	-32.4	42.05	54	-11.95	74	-31.95	0-360	200	H
5	*** 4.91531	39.64	Pk	33.9	-30.9	42.64	54	-11.36	74	-31.36	0-360	101	H
6	*** 8.32031	36.57	Pk	35.8	-27.4	44.97	54	-9.03	74	-29.03	0-360	101	H
9	*** 4.92094	44.68	Pk	33.9	-30.9	47.68	54	-6.32	74	-26.32	0-360	200	V
10	*** 8.36063	37.27	Pk	35.8	-27.2	45.87	54	-8.13	74	-28.13	0-360	200	V
3	2.4025	37.64	Pk	32.1	-24.1	45.64	-	-	-	-	0-360	200	H
8	2.4025	39.62	Pk	32.1	-24.1	47.62	-	-	-	-	0-360	101	V

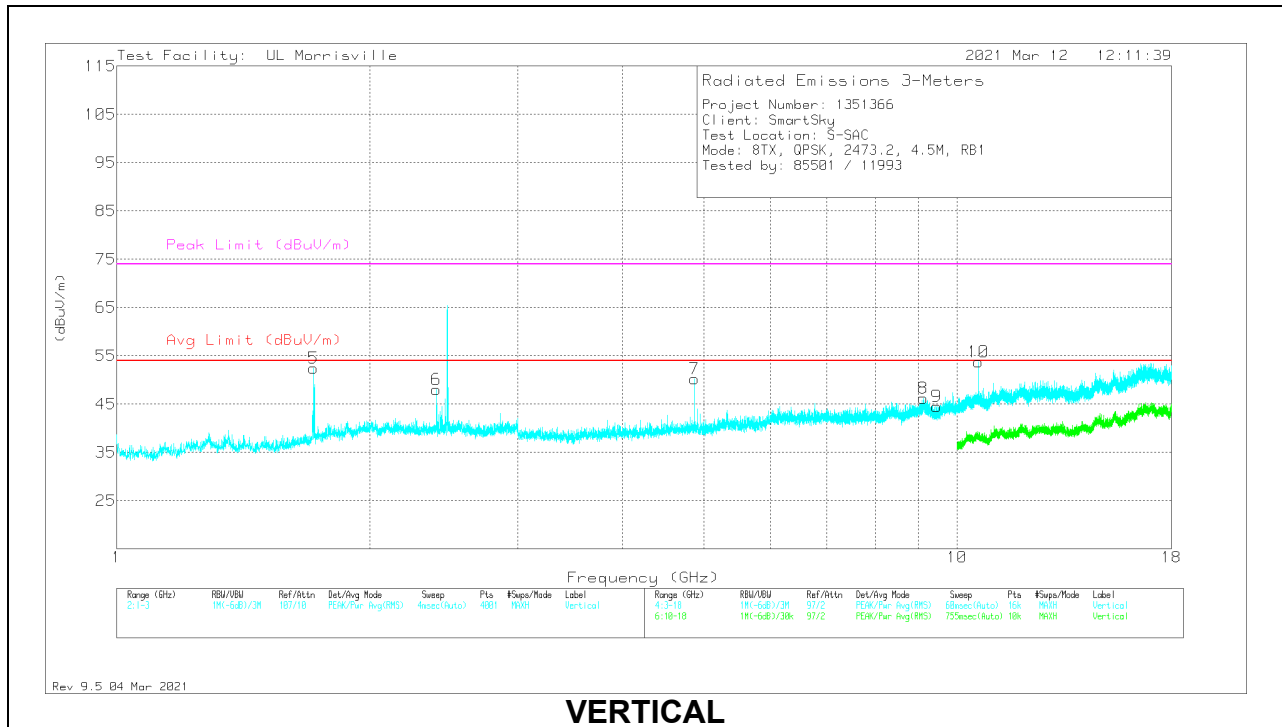
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - :VB=1/Ton, Linear Voltage Average where: Ton is packet duration



### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

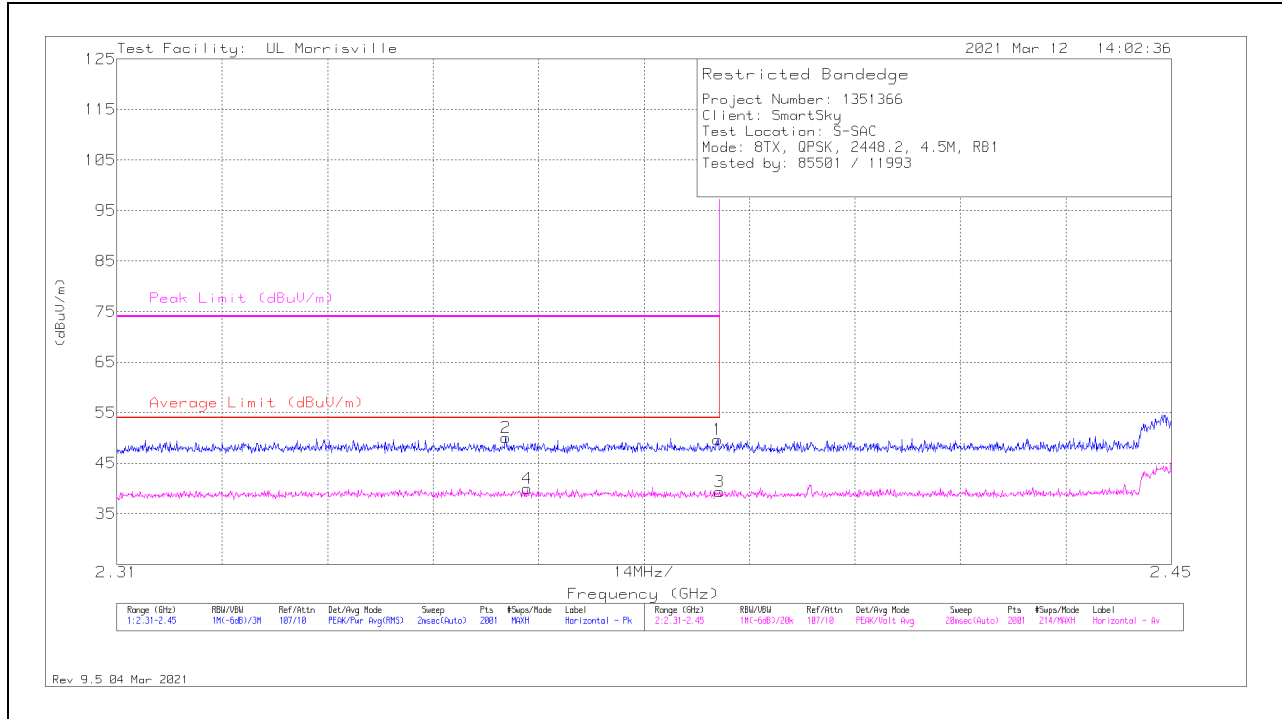
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.886	33.74	Pk	31.1	-22.3	42.54	54	-11.46	74	-31.46	0-360	101	H
5	** 1.71459	36.22	PK2	29.6	-22.1	43.72	-	-	74	-30.28	211	375	V
	** 1.71414	22.82	V1TV	29.6	-22.1	30.32	54	-23.68	-	-	211	375	V
4	*** 9.11906	35.01	Pk	36.3	-25.9	45.41	54	-8.59	74	-28.59	0-360	200	H
7	*** 4.87065	49.73	PK2	34	-30.9	52.83	-	-	74	-21.17	50	215	V
	*** 4.87053	47.19	V1TV	34	-30.9	50.29	54	-3.71	-	-	50	215	V
8	*** 9.12	35.77	Pk	36.3	-25.9	46.17	54	-7.83	74	-27.83	0-360	200	V
9	*** 9.46031	34.57	Pk	36.5	-26.5	44.57	54	-9.43	74	-29.43	0-360	200	V
3	2.4025	37.12	Pk	32.1	-24.1	45.12	-	-	-	-	0-360	200	H
6	2.4025	39.98	Pk	32.1	-24.1	47.98	-	-	-	-	0-360	101	V
2	2.992	35.77	Pk	32.9	-25.8	42.87	-	-	-	-	0-360	200	H
10	10.5975	40.49	Pk	37.9	-24.6	53.79	-	-	-	-	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 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

## 12.2.2 TX ABOVE 1 GHz 4.5MHz, 16-QAM MODE IN THE 2.4 GHz BAND

### BANDEDGE (LOW CHANNEL)

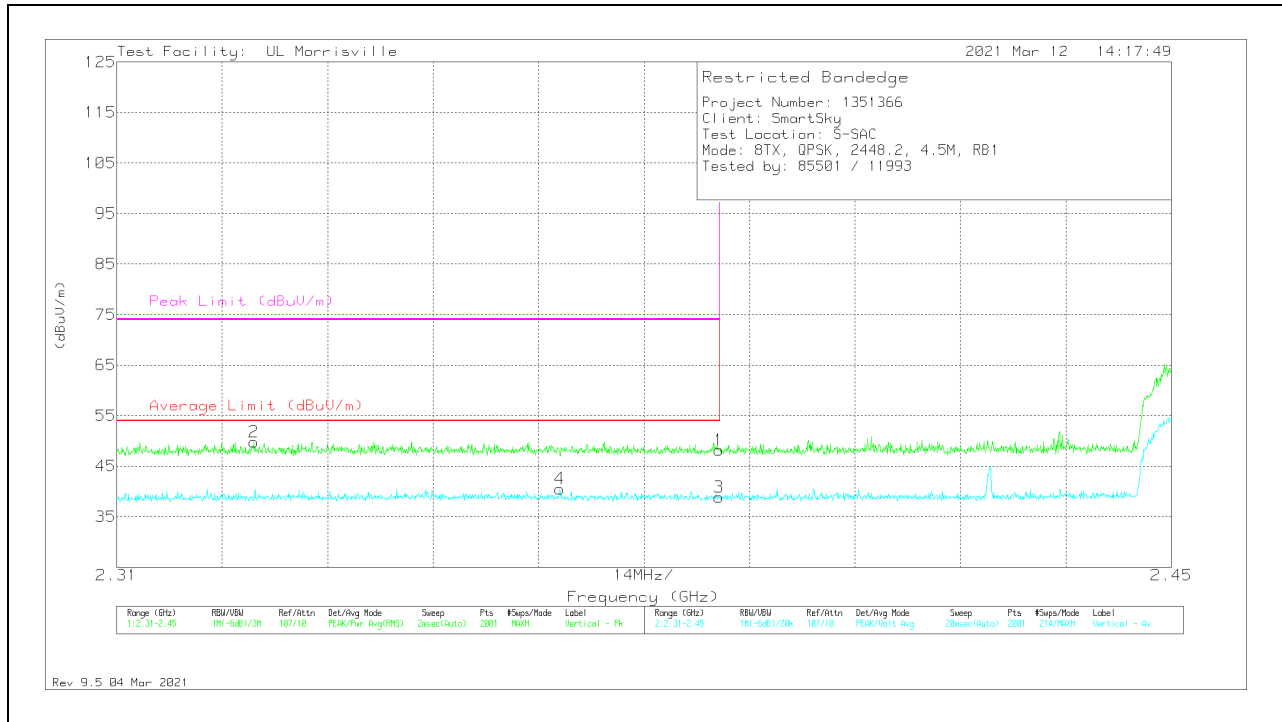
### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.3898	41.8	Pk	32.1	-24.2	49.7	-	-	74	-24.3	115	272	H
2	*** 2.36163	42.09	Pk	32.2	-24.3	49.99	-	-	74	-24.01	115	272	H
4	*** 2.36446	32.13	V1TV	32.2	-24.3	40.03	54	-13.97	-	-	115	272	H
3	2.39001	31.49	V1TV	32.1	-24.2	39.39	54	-14.61	-	-	115	272	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

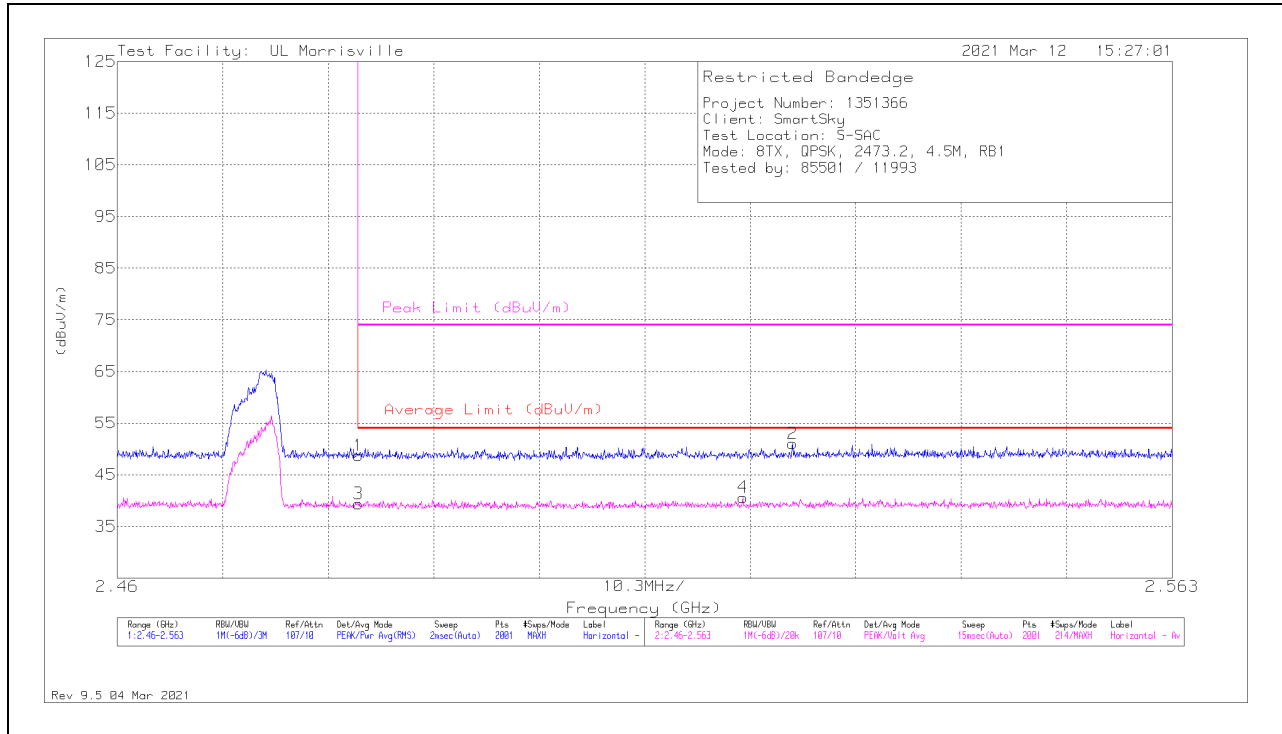


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38994	40.31	Pk	32.1	-24.2	48.21	-	-	74	-25.79	208	260	V
2	*** 2.3282	42.01	Pk	32.1	-24.3	49.81	-	-	74	-24.19	208	260	V
3	*** 2.38994	30.94	V1TV	32.1	-24.2	38.84	54	-15.16	-	-	208	260	V
4	*** 2.3688	32.64	V1TV	32.2	-24.3	40.54	54	-13.46	-	-	208	260	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)**

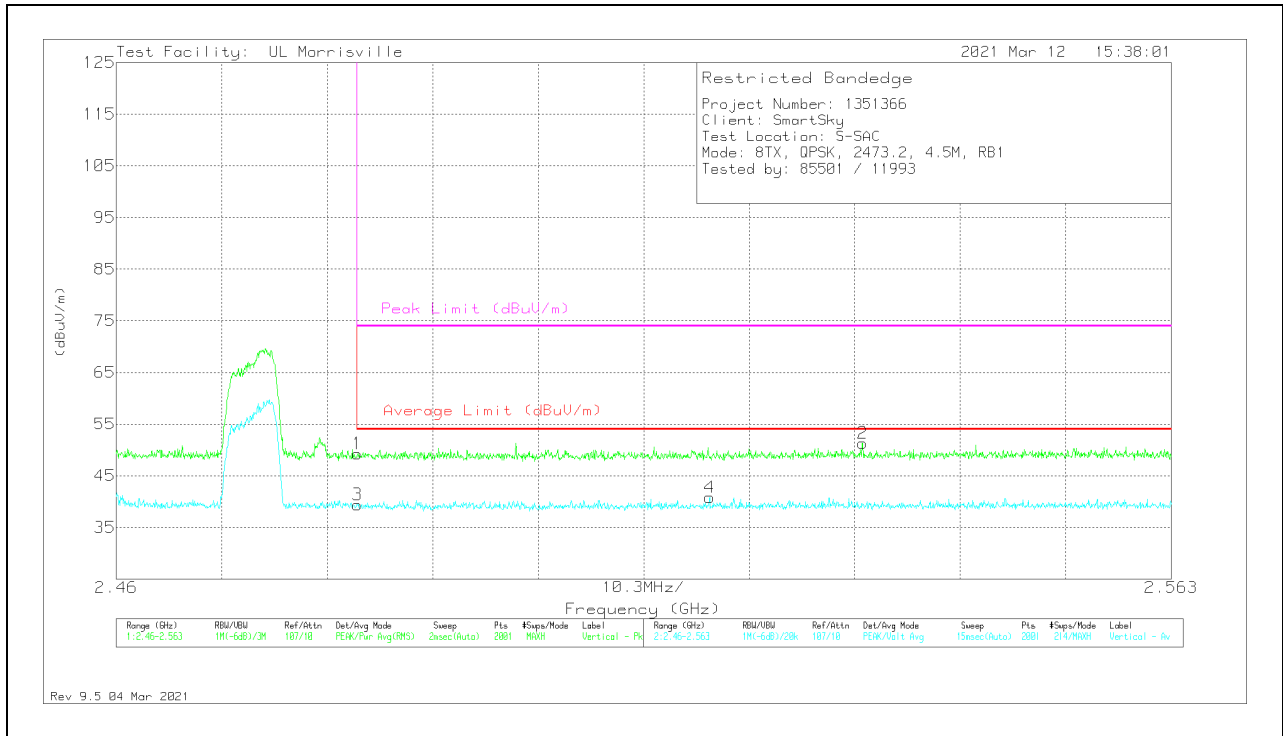
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.48354	40.43	Pk	32.4	-24.1	48.73	-	-	74	-25.27	258	220	H
2	** 2.52592	42.62	Pk	32.5	-24.1	51.02	-	-	74	-22.98	258	220	H
3	*** 2.48354	31.08	V1TV	32.4	-24.1	39.38	54	-14.62	-	-	258	220	H
4	** 2.52108	32.21	V1TV	32.5	-24.1	40.61	54	-13.39	-	-	258	220	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

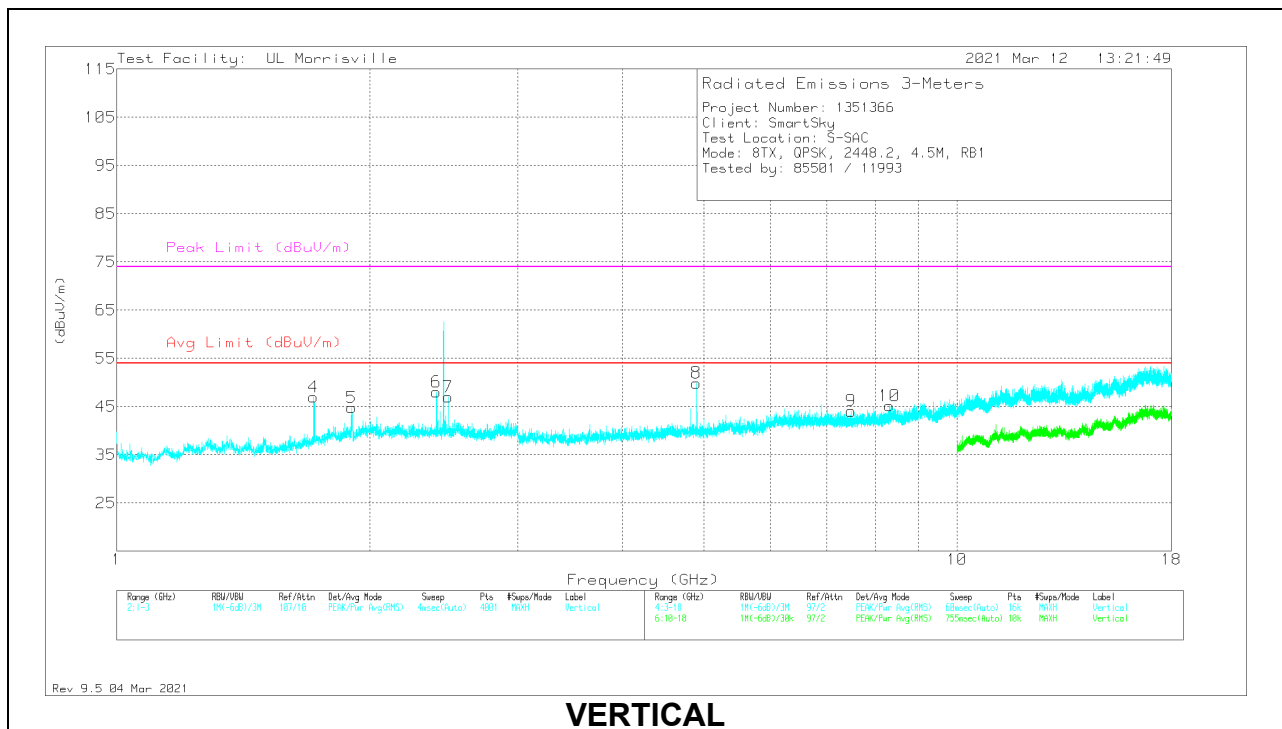
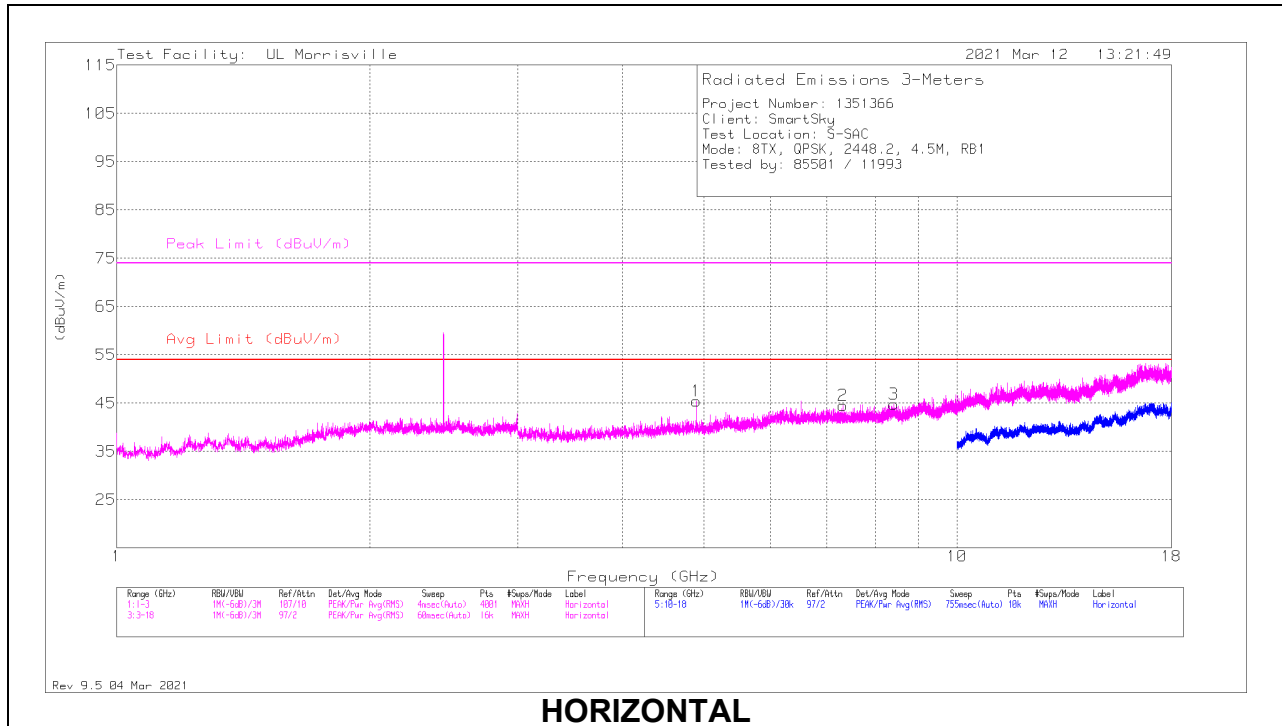


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	40.94	Pk	32.4	-24.1	49.24	-	-	74	-24.76	257	221	V
2	** 2.53287	42.8	Pk	32.6	-24.1	51.3	-	-	74	-22.7	257	221	V
3	*** 2.48354	31.1	V1TV	32.4	-24.1	39.4	54	-14.6	-	-	257	221	V
4	** 2.51794	32.39	V1TV	32.5	-24.1	40.79	54	-13.21	-	-	257	221	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**



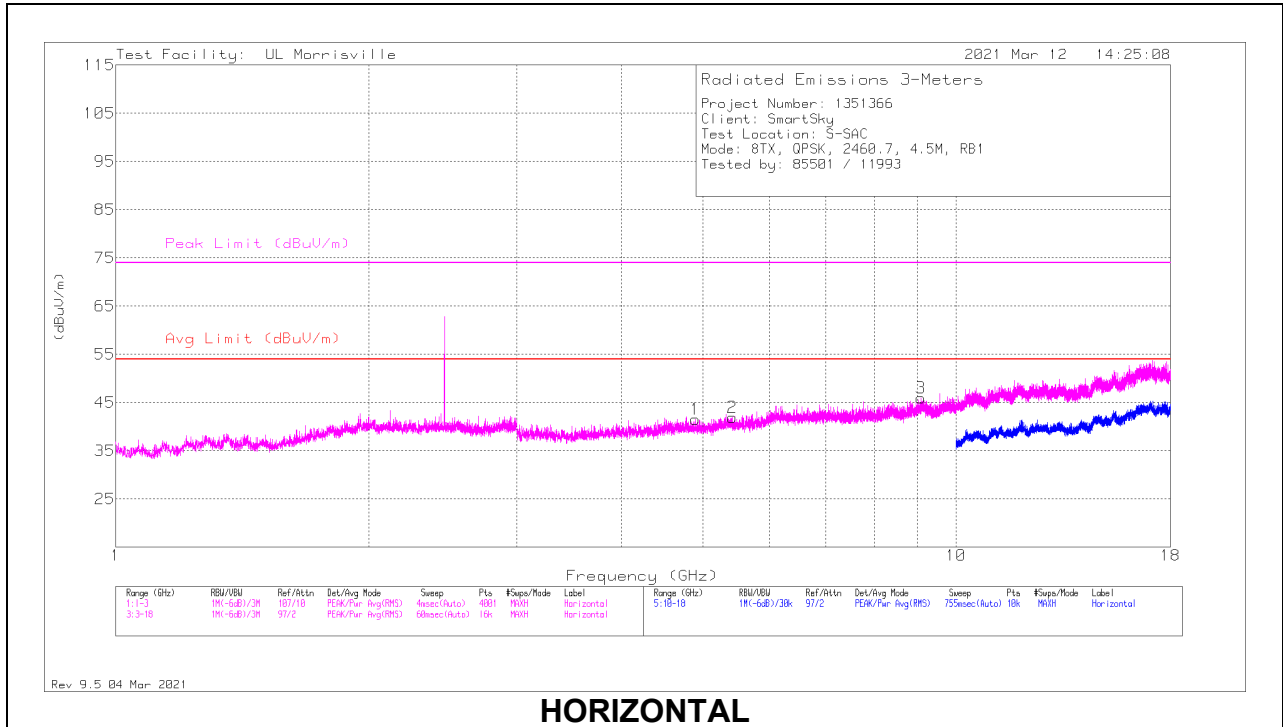
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/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
4	** 1.715	39.44	Pk	29.6	-22.1	46.94	54	-7.06	74	-27.06	0-360	200	V
1	*** 4.89563	42.29	Pk	34	-30.9	45.39	54	-8.61	74	-28.61	0-360	101	H
2	*** 7.31906	36.38	Pk	35.6	-27.4	44.58	54	-9.42	74	-29.42	0-360	200	H
3	*** 8.41125	36.12	Pk	35.9	-27.2	44.82	54	-9.18	74	-29.18	0-360	200	H
8	*** 4.89638	52.38	PK2	34	-30.9	55.48	-	-	74	-18.52	347	175	V
	*** 4.89632	44.87	V1TV	34	-30.9	47.97	54	-6.03	-	-	347	175	V
9	*** 7.48688	36.38	Pk	35.6	-27.9	44.08	54	-9.92	74	-29.92	0-360	101	V
10	*** 8.31141	36.83	Pk	35.8	-27.4	45.23	54	-8.77	74	-28.77	0-360	101	V
5	1.903	35.95	Pk	31.3	-22.4	44.85	-	-	-	-	0-360	101	V
6	2.4025	40.04	Pk	32.1	-24.1	48.04	-	-	-	-	0-360	200	V
7	2.48	38.97	Pk	32.4	-24.4	46.97	-	-	-	-	0-360	101	V

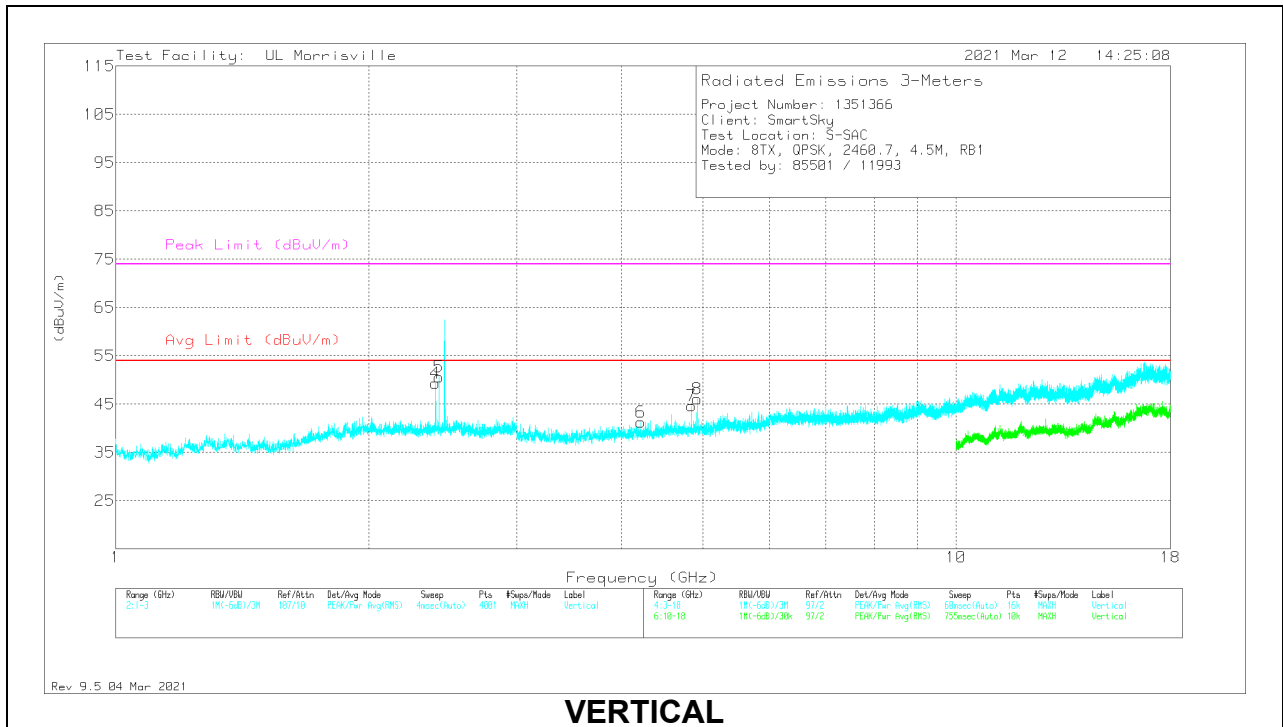
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration



### MID CHANNEL RESULTS



**HORIZONTAL**



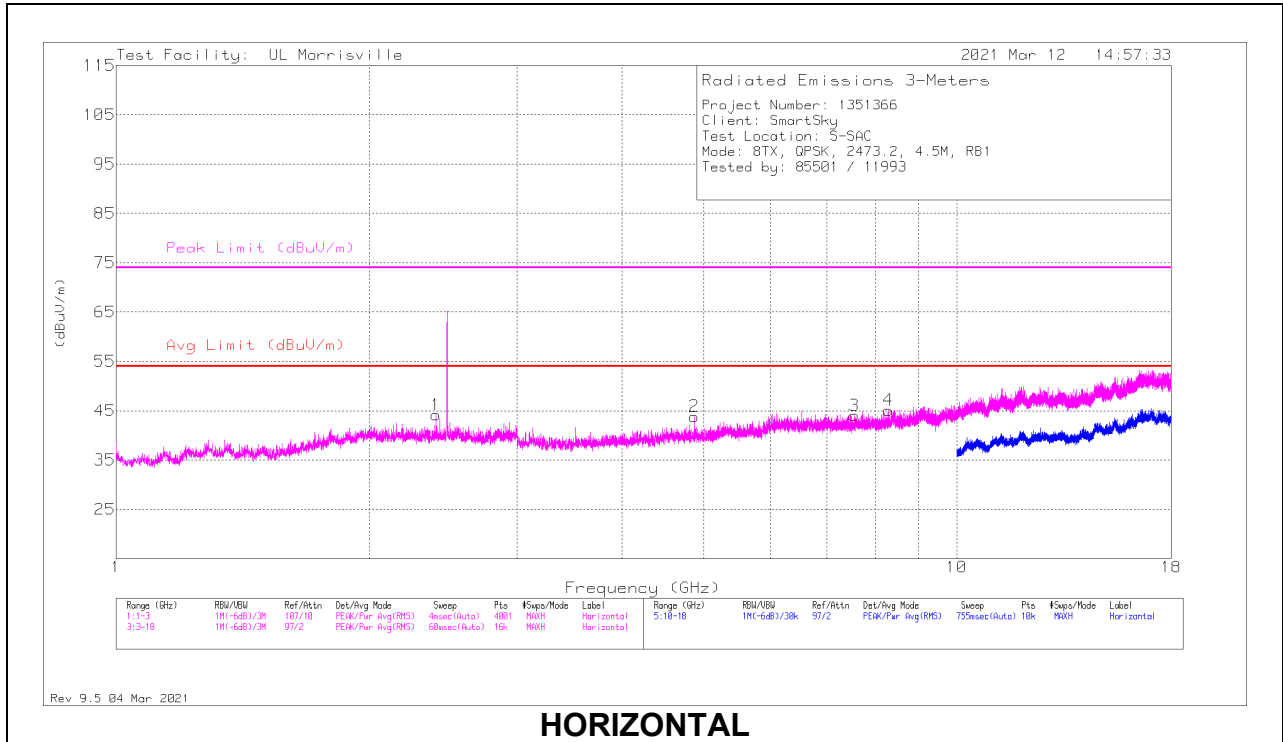
**VERTICAL**

**RADIATED EMISSIONS**

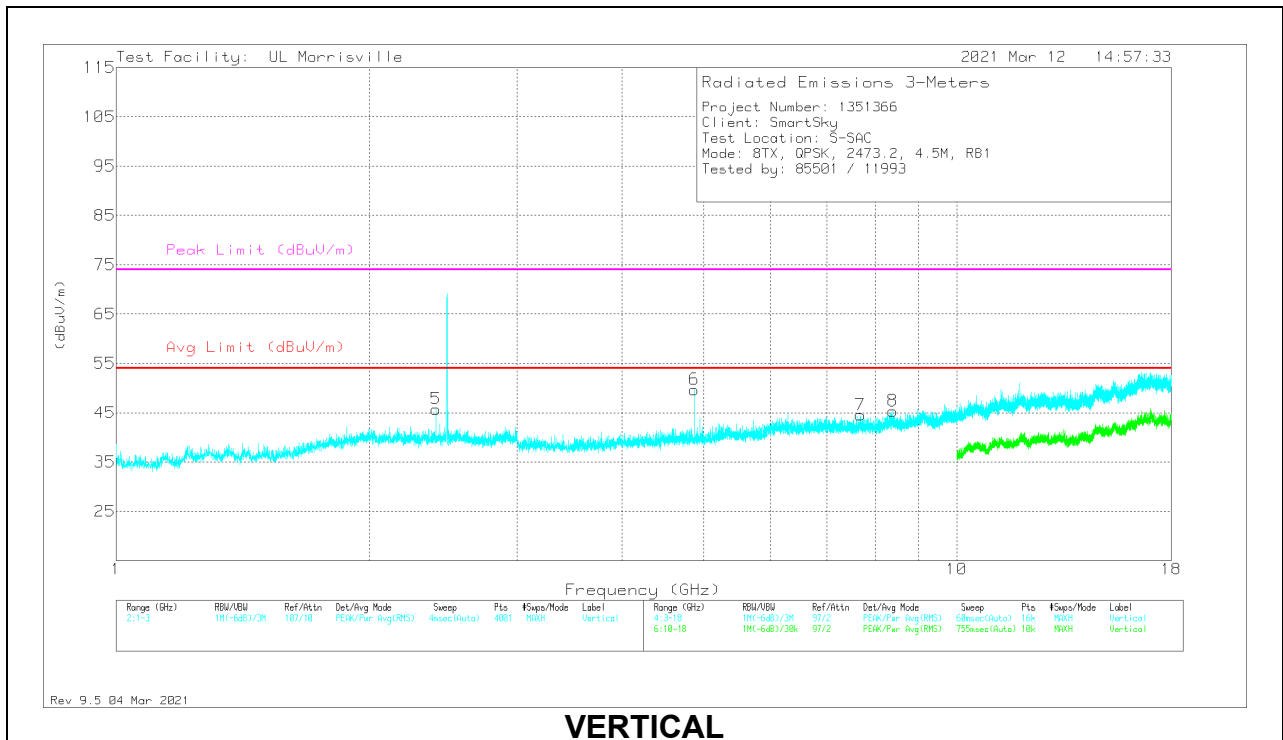
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.8975	38.57	Pk	34	-31	41.57	54	-12.43	74	-32.43	0-360	101	H
2	*** 5.41688	37.48	Pk	34.5	-30.1	41.88	54	-12.12	74	-32.12	0-360	101	H
3	*** 9.07875	35.98	Pk	36.2	-26.2	45.98	54	-8.02	74	-28.02	0-360	101	H
6	*** 4.21688	39.08	Pk	33.4	-31.2	41.28	54	-12.72	74	-32.72	0-360	200	V
7	*** 4.845	41.61	Pk	34	-31	44.61	54	-9.39	74	-29.39	0-360	200	V
8	*** 4.92188	43.14	Pk	33.9	-30.9	46.14	54	-7.86	74	-27.86	0-360	200	V
4	2.4025	41.36	Pk	32.1	-24.1	49.36	-	-	-	-	0-360	200	V
5	2.426	42.42	Pk	32.3	-24.1	50.62	-	-	-	-	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 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

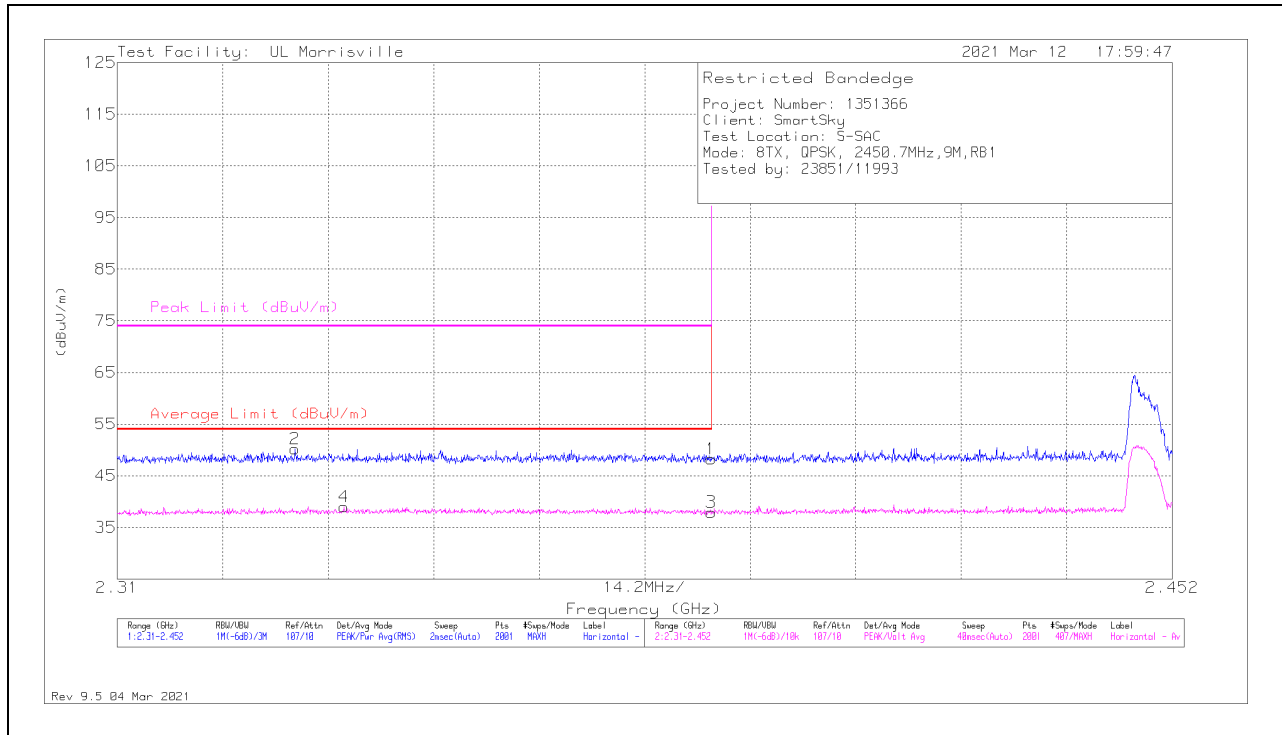
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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
2	*** 4.87031	40.71	Pk	34	-30.9	43.81	54	-10.19	74	-30.19	0-360	101	H
3	*** 7.5525	36.04	Pk	35.7	-27.7	44.04	54	-9.96	74	-29.96	0-360	200	H
4	*** 8.29406	36.8	Pk	35.8	-27.5	45.1	54	-8.9	74	-28.9	0-360	101	H
6	*** 4.87064	49.4	PK2	34	-30.9	52.5	-	-	74	-21.5	51	217	V
	*** 4.8706	46.61	V1TV	34	-30.9	49.71	54	-4.29	-	-	51	217	V
7	*** 7.68094	36.34	Pk	35.7	-27.5	44.54	54	-9.46	74	-29.46	0-360	200	V
8	*** 8.39438	36.66	Pk	35.9	-27.2	45.36	54	-8.64	74	-28.64	0-360	101	V
1	2.4025	36.16	Pk	32.1	-24.1	44.16	-	-	-	-	0-360	101	H
5	2.4025	37.75	Pk	32.1	-24.1	45.75	-	-	-	-	0-360	101	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### 12.2.3. TX ABOVE 1 GHz 9 MHz, QPSK MODE IN THE 2.4 GHz BAND BANDEDGE (LOW CHANNEL)

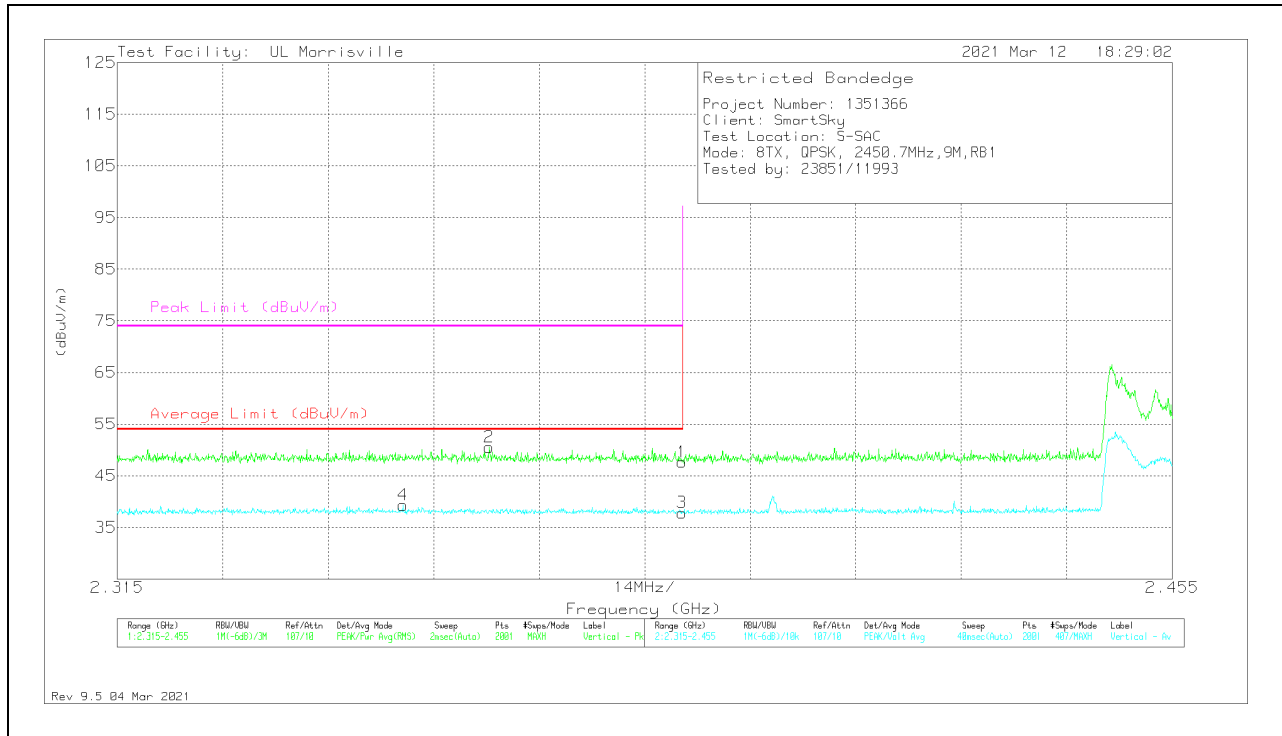
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38995	40.33	Pk	32.1	-24.2	48.23	-	-	74	-25.77	193	128	H
2	*** 2.33393	42.37	Pk	32.1	-24.3	50.17	-	-	74	-23.83	193	128	H
3	*** 2.38995	30.02	V1TV	32.1	-24.2	37.92	54	-16.08	-	-	193	128	H
4	*** 2.34053	31.07	V1TV	32.2	-24.3	38.97	54	-15.03	-	-	193	128	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

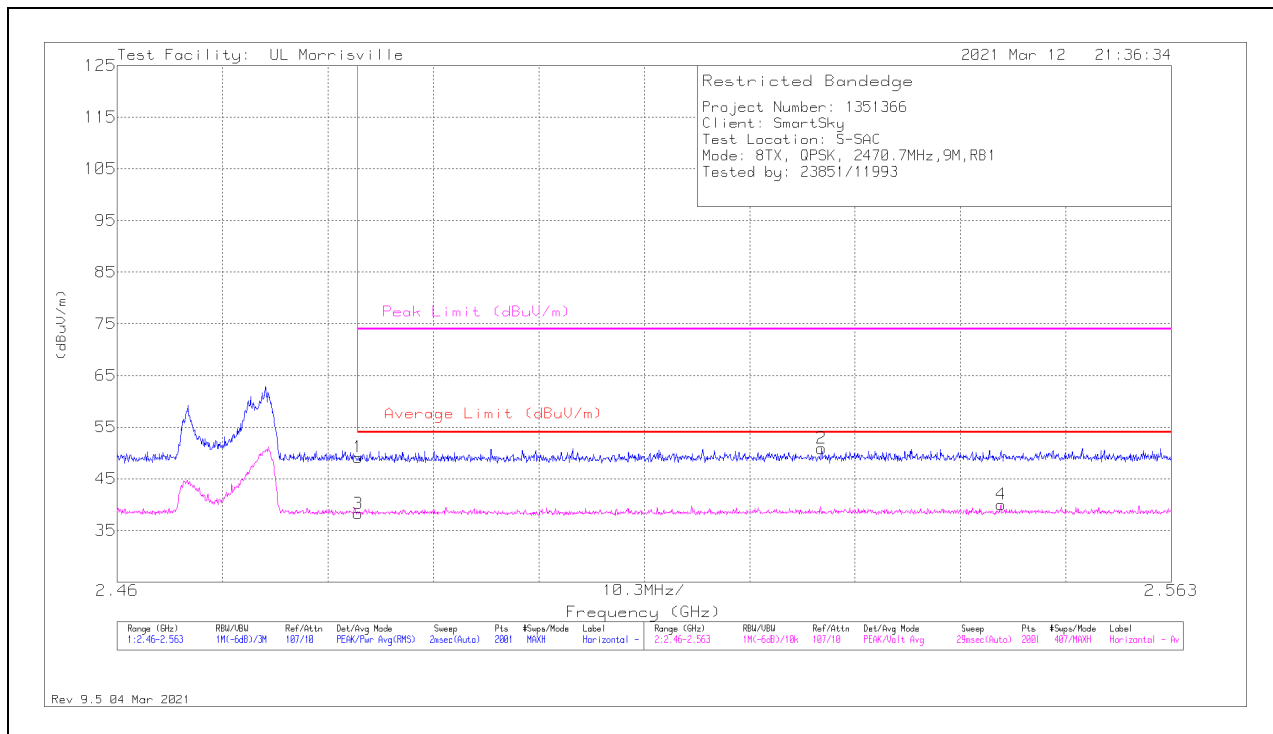


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38997	39.72	Pk	32.1	-24.2	47.62	-	-	74	-26.38	177	106	V
2	*** 2.36435	42.63	Pk	32.2	-24.3	50.53	-	-	74	-23.47	177	106	V
3	*** 2.38997	29.93	V1TV	32.1	-24.2	37.83	54	-16.17	-	-	177	106	V
4	*** 2.35294	31.41	V1TV	32.2	-24.3	39.31	54	-14.69	-	-	177	106	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)**

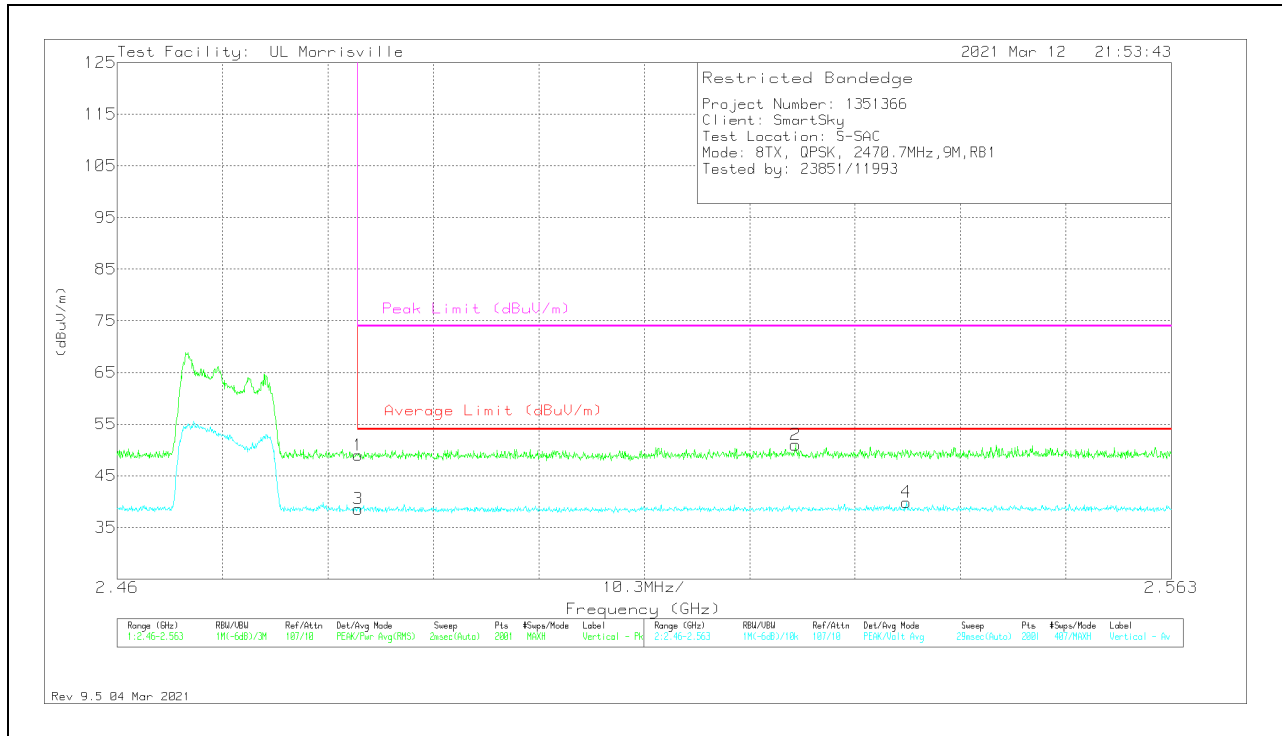
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.48354	40.86	Pk	32.4	-24.1	49.16	-	-	74	-24.84	313	237	H
2	** 2.5288	42.38	Pk	32.6	-24.1	50.88	-	-	74	-23.12	313	237	H
3	*** 2.48354	29.96	V1TV	32.4	-24.1	38.26	54	-15.74	-	-	313	237	H
4	** 2.54637	31.52	V1TV	32.7	-24.2	40.02	54	-13.98	-	-	313	237	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



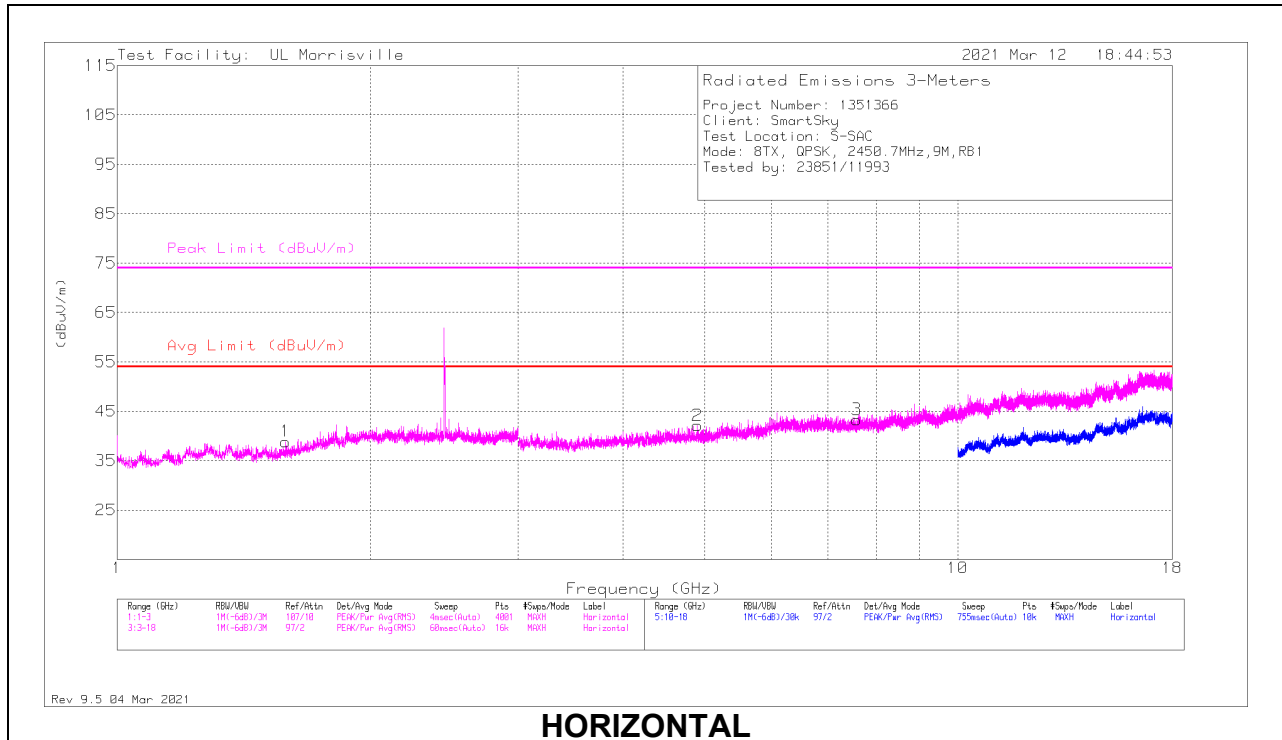
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	40.66	Pk	32.4	-24.1	48.96	-	-	74	-25.04	35	248	V
2	** 2.52628	42.61	Pk	32.5	-24.1	51.01	-	-	74	-22.99	35	248	V
3	*** 2.48354	30.28	V1TV	32.4	-24.1	38.58	54	-15.42	-	-	35	248	V
4	** 2.5371	31.38	V1TV	32.6	-24.1	39.88	54	-14.12	-	-	35	248	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

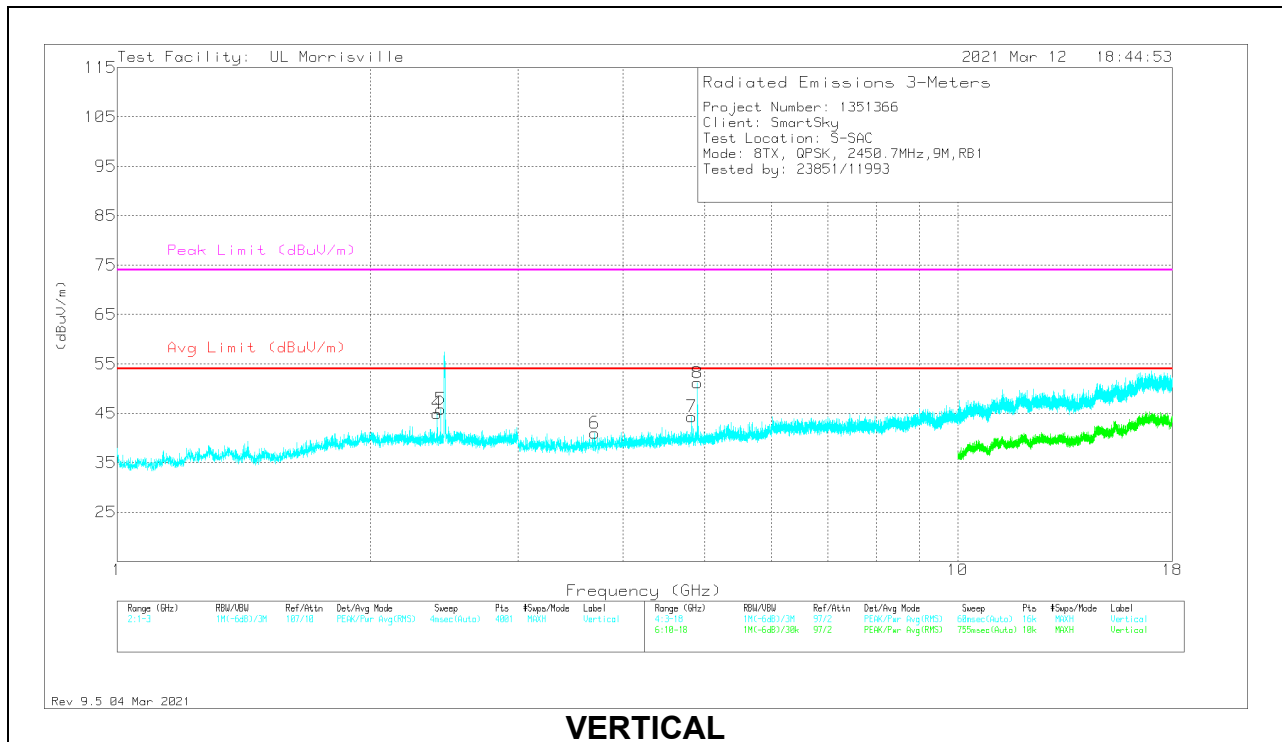


**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



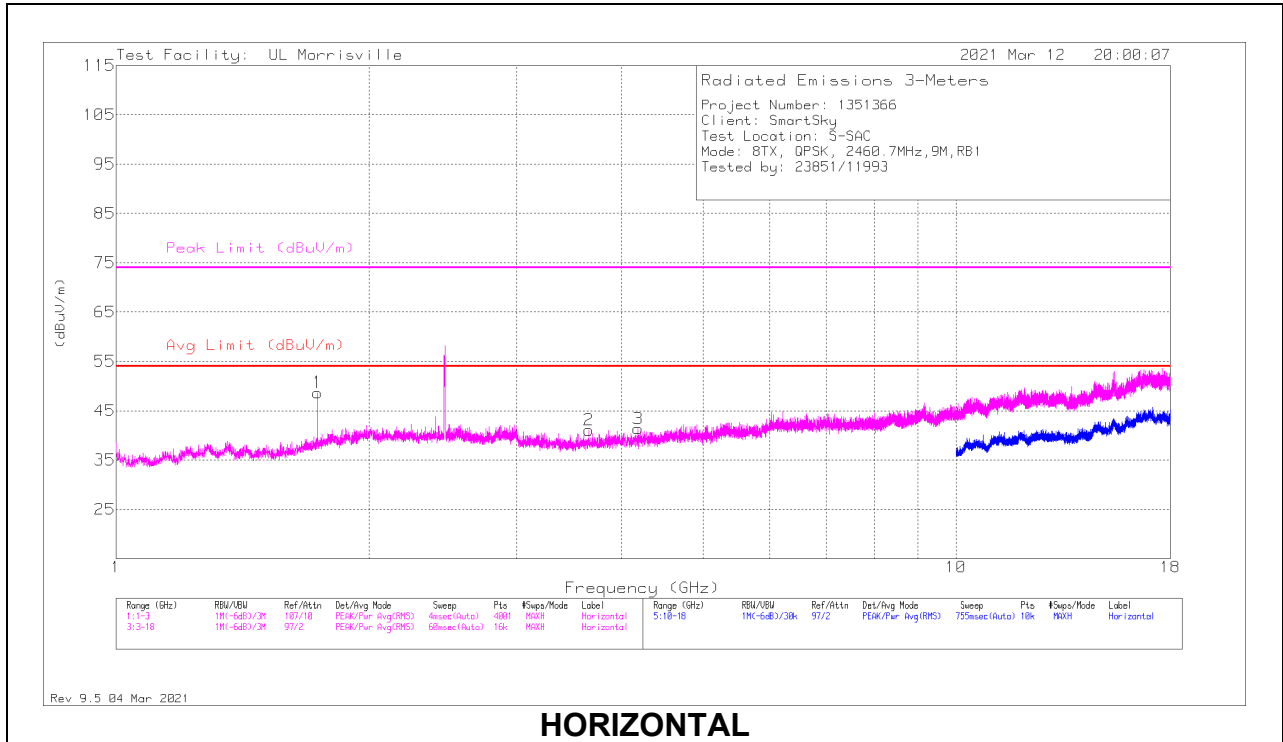
**VERTICAL**

**RADIATED EMISSIONS**

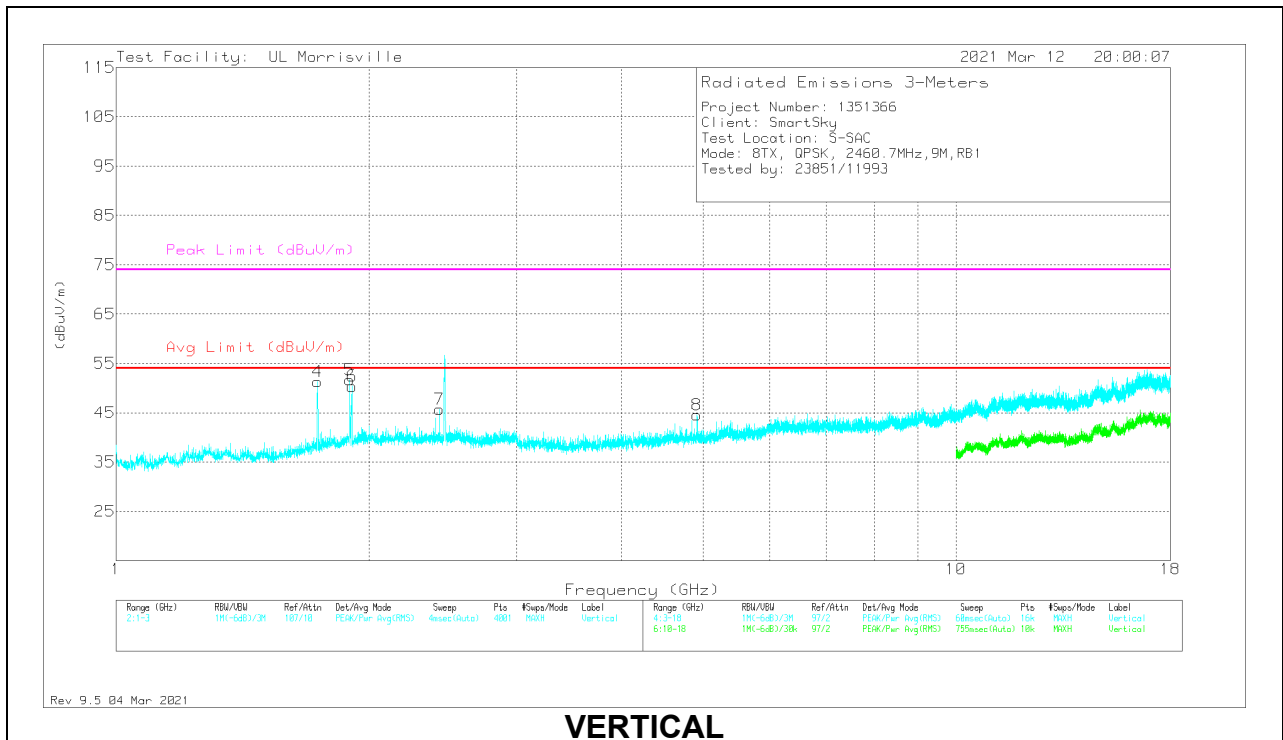
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.585	32.78	Pk	28.3	-22.2	38.88	54	-15.12	74	-35.12	0-360	101	H
2	*** 4.90125	39.2	Pk	33.9	-31	42.1	54	-11.9	74	-31.9	0-360	199	H
3	*** 7.58156	35.21	Pk	35.7	-27.6	43.31	54	-10.69	74	-30.69	0-360	199	H
6	*** 3.70031	40.3	Pk	33.1	-32.4	41	54	-13	74	-33	0-360	101	V
7	*** 4.82531	41.12	Pk	34	-30.8	44.32	54	-9.68	74	-29.68	0-360	199	V
8	*** 4.90144	47.65	PK2	33.9	-31	50.55	-	-	74	-23.45	216	112	V
	*** 4.90139	43.76	V1TV	33.9	-31	46.66	54	-7.34	-	-	216	112	V
4	2.4025	36.97	Pk	32.1	-24.1	44.97	-	-	-	-	0-360	199	V
5	2.4265	37.66	Pk	32.3	-24.1	45.86	-	-	-	-	0-360	199	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### MID CHANNEL RESULTS



### HORIZONTAL



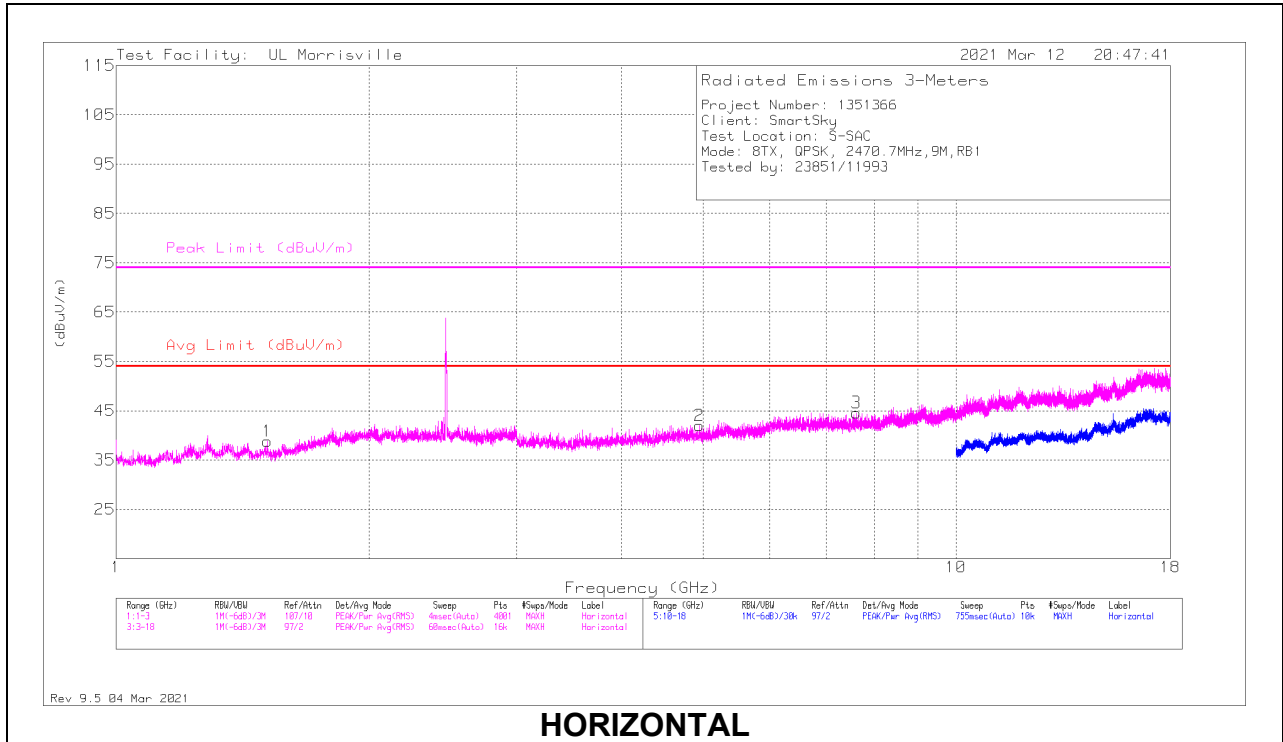
### VERTICAL

**RADIATED EMISSIONS**

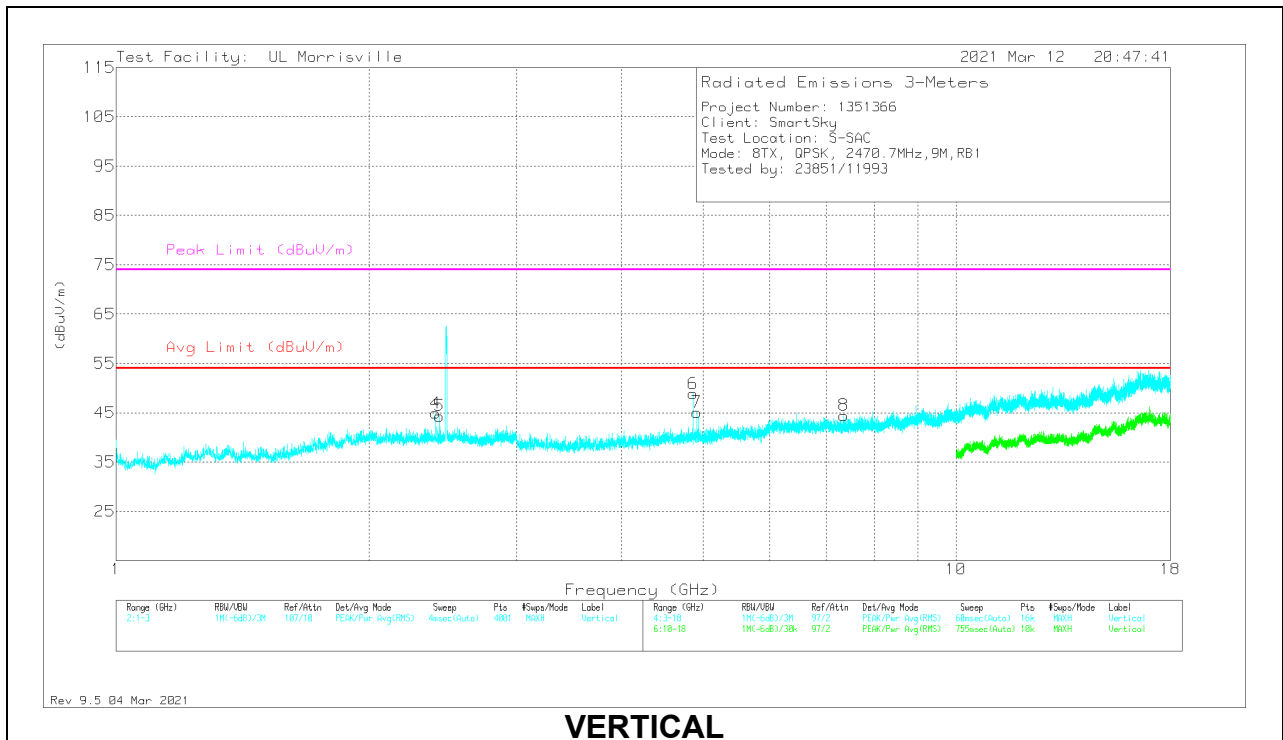
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.74135	33.69	PK2	29.7	-22.2	41.19	-	-	74	-	34	368	H
	** 1.74086	22.42	V1TV	29.7	-22.2	29.92	54	-24.08	-	-	34	368	H
4	** 1.73766	33.73	PK2	29.7	-22.2	41.23	-	-	74	-	110	380	V
	** 1.73503	22.44	V1TV	29.7	-22.2	29.94	54	-24.06	-	-	110	380	V
5	** 1.896	33.22	PK2	31.3	-22.3	42.22	-	-	74	-	143	101	V
	** 1.8984	22.11	V1TV	31.3	-22.3	31.11	54	-22.89	-	-	143	101	V
6	** 1.90949	33.02	PK2	31.3	-22.4	41.92	-	-	74	-	111	177	V
	** 1.9104	21.66	V1TV	31.3	-22.4	30.56	54	-23.44	-	-	111	177	V
2	*** 3.6525	40.17	Pk	33.1	-32.2	41.07	54	-12.93	74	-32.93	0-360	200	H
3	*** 4.18313	39.13	Pk	33.4	-31.2	41.33	54	-12.67	74	-32.67	0-360	101	H
8	*** 4.91531	41.54	Pk	33.9	-30.9	44.54	54	-9.46	74	-29.46	0-360	101	V
7	2.4265	37.49	Pk	32.3	-24.1	45.69	-	-	-	-	0-360	101	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

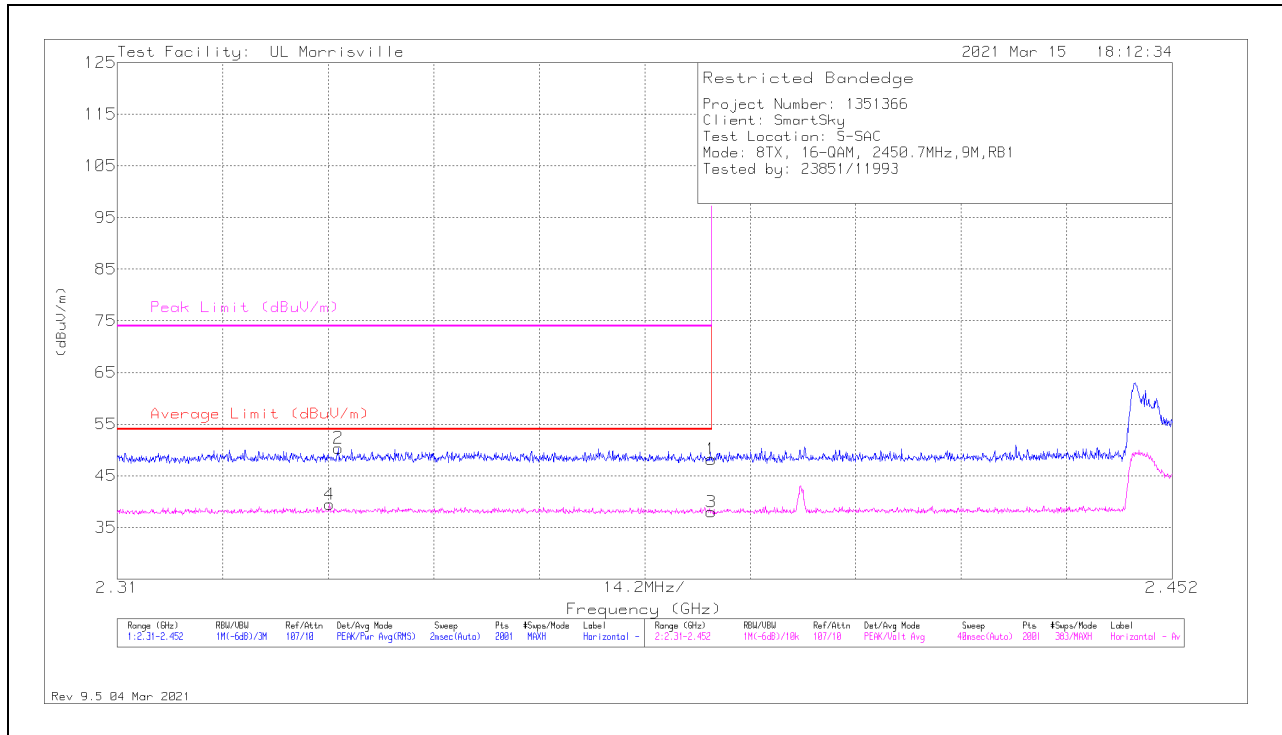
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 1.513	33.31	Pk	28	-22.5	38.81	54	-15.19	74	-35.19	0-360	200	H
2	*** 4.94906	38.97	Pk	33.9	-30.9	41.97	54	-12.03	74	-32.03	0-360	200	H
3	*** 7.61438	36.36	Pk	35.7	-27.5	44.56	54	-9.44	74	-29.44	0-360	101	H
6	*** 4.86557	48.69	PK2	34	-30.9	51.79	-	-	74	-22.21	49	202	V
	*** 4.8656	46.15	V1TV	34	-30.9	49.25	54	-4.75	-	-	49	202	V
7	*** 4.91438	42.1	Pk	33.9	-30.9	45.1	54	-8.9	74	-28.9	0-360	101	V
8	*** 7.35281	36.37	Pk	35.6	-27.5	44.47	54	-9.53	74	-29.53	0-360	101	V
4	2.4025	36.91	Pk	32.1	-24.1	44.91	54	-	-	-	0-360	101	V
5	2.4265	36.15	Pk	32.3	-24.1	44.35	54	-	-	-	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 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

## 12.2.4. TX ABOVE 1 GHz 9 MHz, 16-QAM MODE IN THE 2.4 GHz BAND BANDEDGE (LOW CHANNEL)

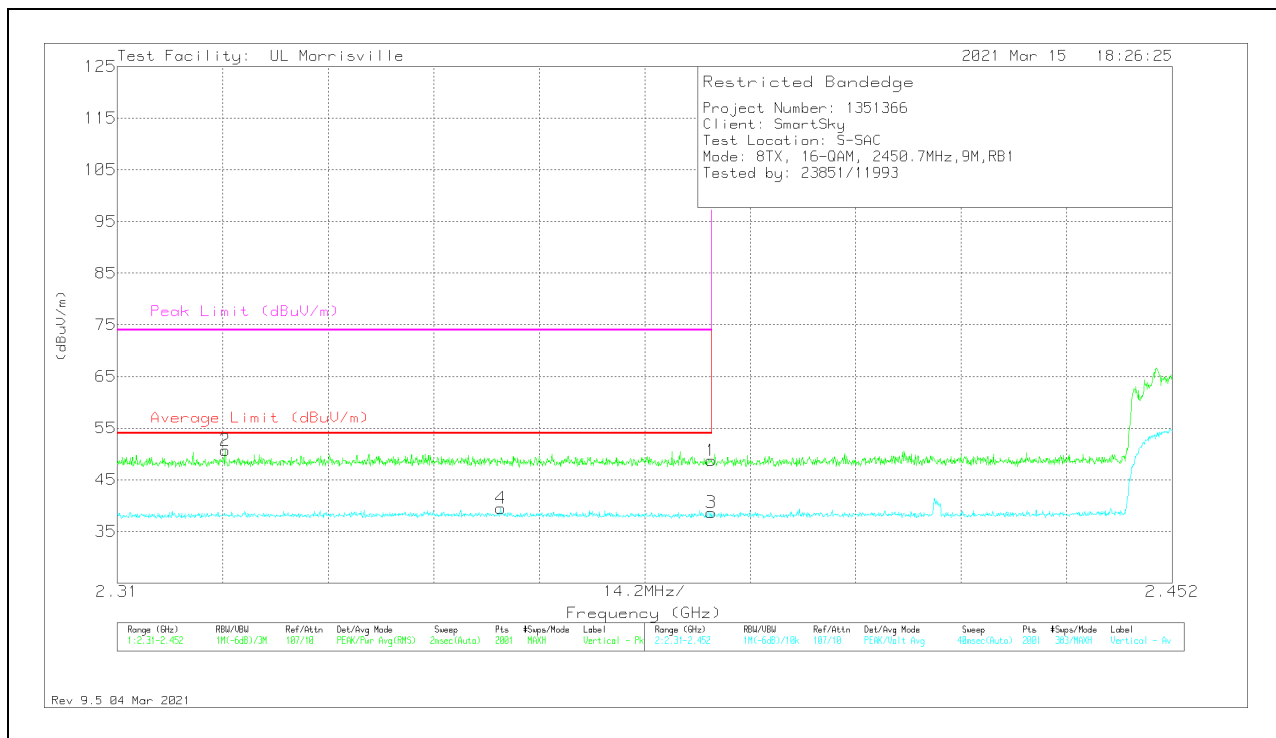
### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38995	40.3	Pk	32.1	-24.2	48.2	-	-	74	-25.8	233	124	H
2	*** 2.33975	42.45	Pk	32.2	-24.3	50.35	-	-	74	-23.65	233	124	H
3	*** 2.38995	30.12	V1TV	32.1	-24.2	38.02	54	-15.98	-	-	233	124	H
4	*** 2.33854	31.55	V1TV	32.2	-24.3	39.45	54	-14.55	-	-	233	124	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



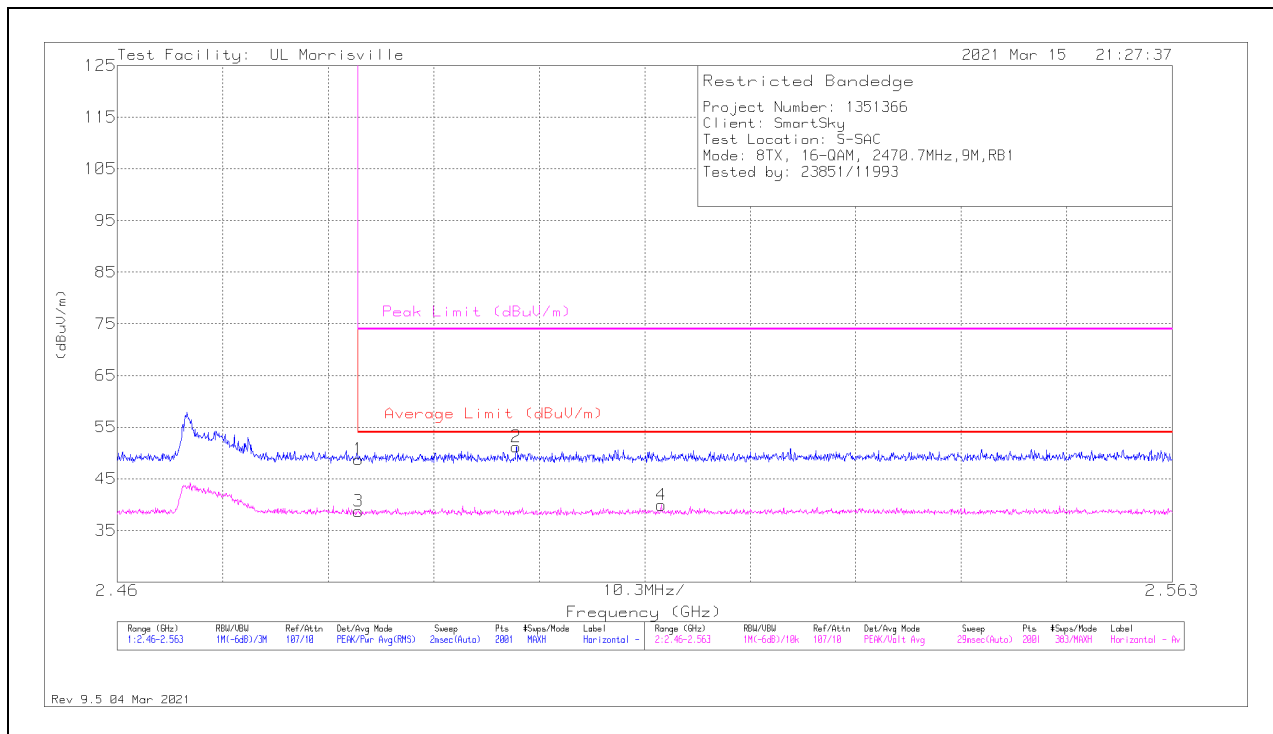
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38995	40.83	Pk	32.1	-24.2	48.73	-	-	74	-25.27	12	166	V
2	*** 2.32456	42.89	Pk	32.1	-24.3	50.69	-	-	74	-23.31	12	166	V
3	*** 2.38995	30.76	V1TV	32.1	-24.2	38.66	54	-15.34	-	-	12	166	V
4	*** 2.36162	31.59	V1TV	32.2	-24.3	39.49	54	-14.51	-	-	12	166	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)**

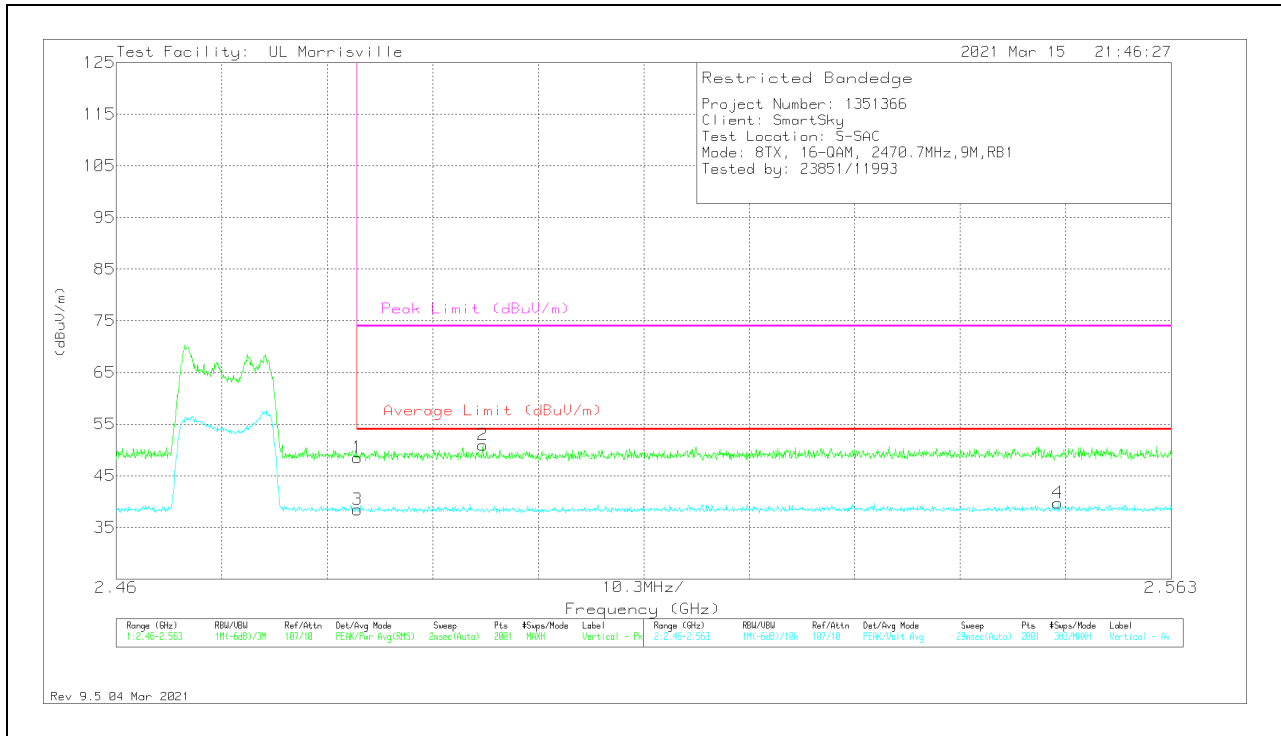
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.48354	40.45	Pk	32.4	-24.1	48.75	-	-	74	-25.25	63	323	H
2	*** 2.49893	42.89	Pk	32.4	-24.1	51.19	-	-	74	-22.81	63	323	H
3	*** 2.48354	30.41	V1TV	32.4	-24.1	38.71	54	-15.29	-	-	63	323	H
4	** 2.5131	31.52	V1TV	32.5	-24.1	39.92	54	-14.08	-	-	63	323	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

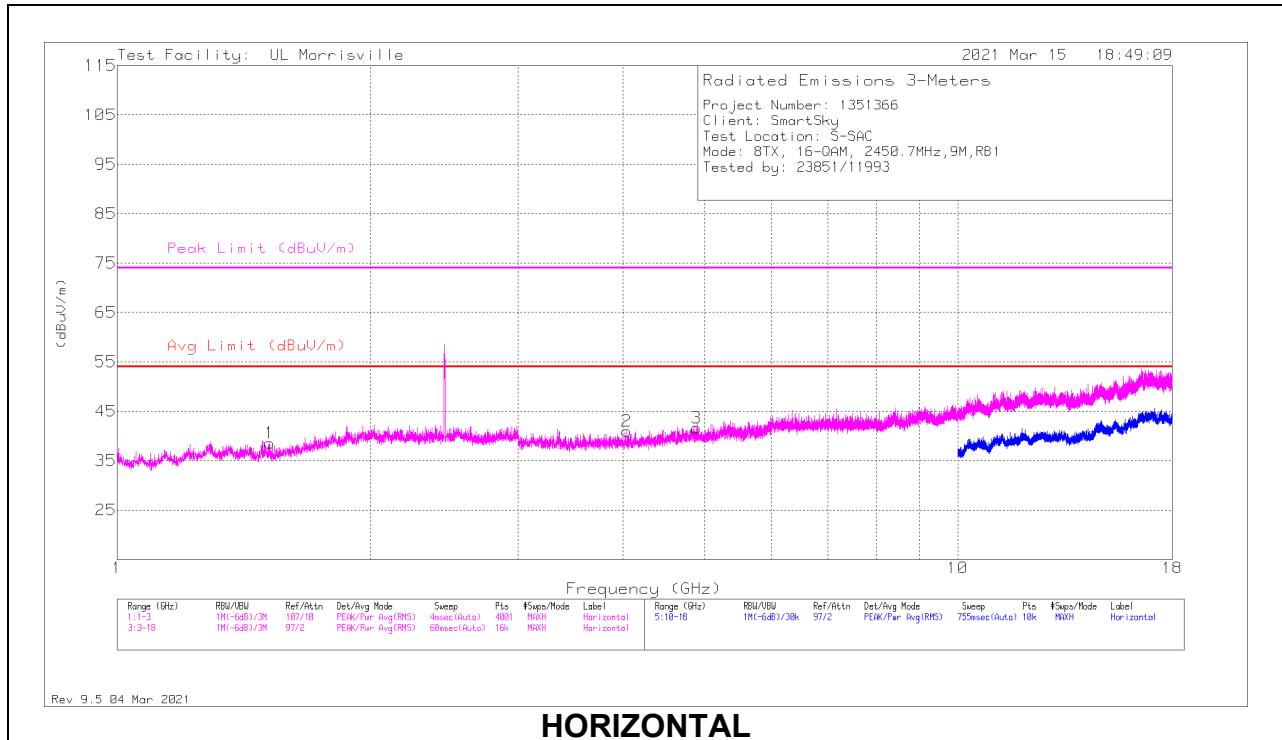


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	40.22	Pk	32.4	-24.1	48.52	-	-	74	-25.48	17	168	V
2	*** 2.49579	42.69	Pk	32.4	-24.1	50.99	-	-	74	-23.01	17	168	V
3	*** 2.48354	30.16	V1TV	32.4	-24.1	38.46	54	-15.54	-	-	17	168	V
4	** 2.55193	31.16	V1TV	32.7	-24.1	39.76	54	-14.24	-	-	17	168	V

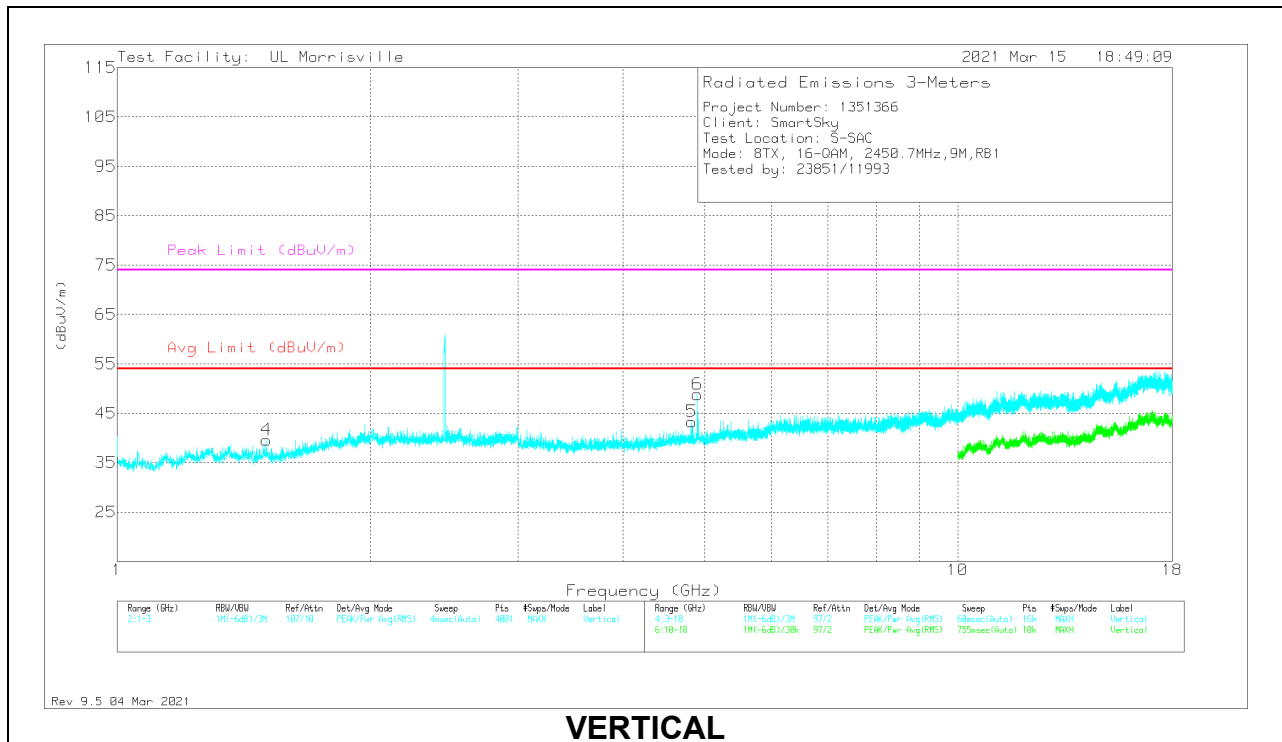
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



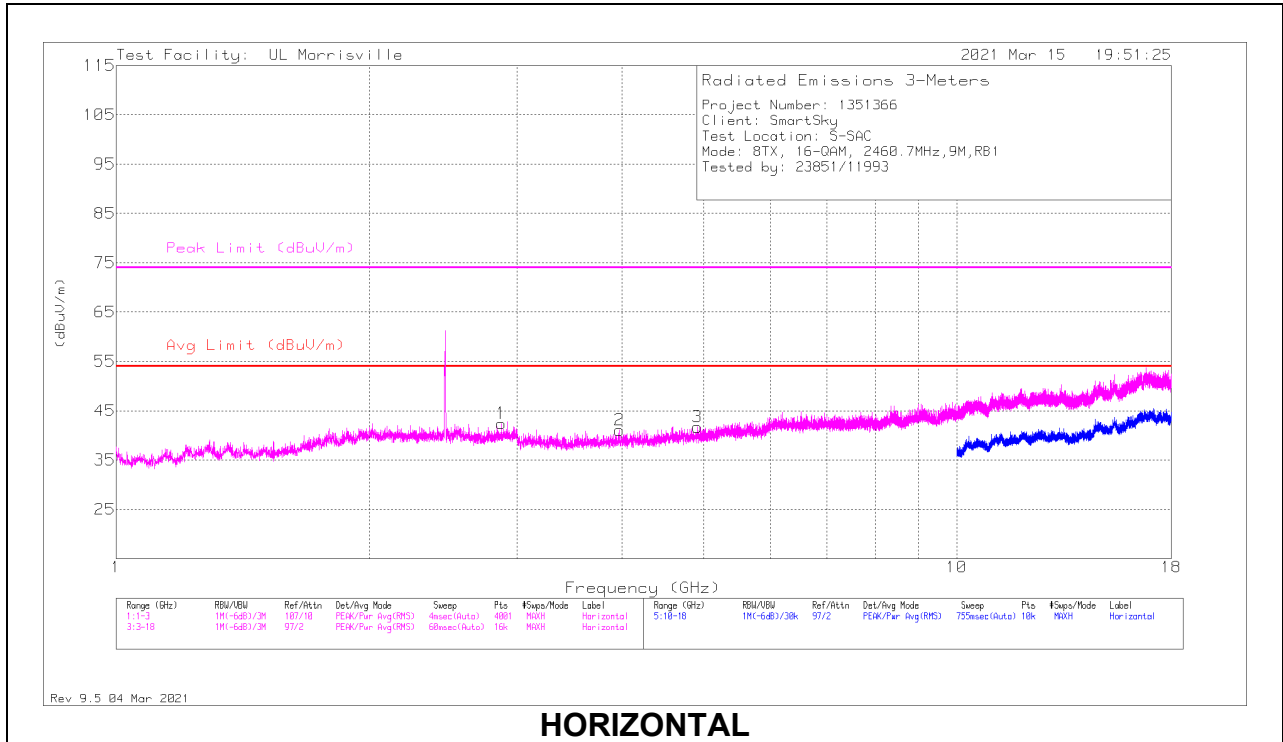
**VERTICAL**

**RADIATED EMISSIONS**

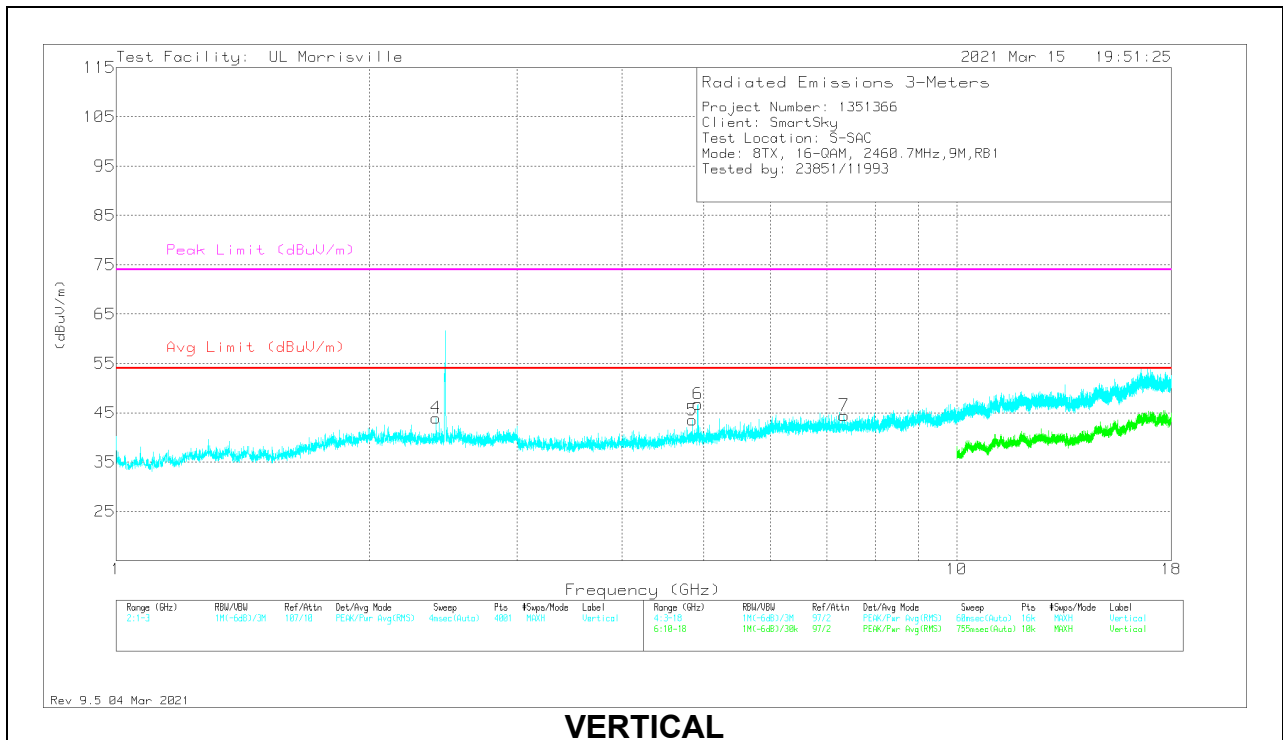
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.518	32.96	Pk	28	-22.4	38.56	54	-15.44	74	-35.44	0-360	199	H
4	*** 1.5045	34.02	Pk	28	-22.4	39.62	54	-14.38	74	-34.38	0-360	101	V
2	*** 4.03875	39.97	Pk	33.4	-32.4	40.97	54	-13.03	74	-33.03	0-360	199	H
3	*** 4.88625	38.5	Pk	34	-30.9	41.6	54	-12.4	74	-32.4	0-360	199	H
5	*** 4.82531	40.11	Pk	34	-30.8	43.31	54	-10.69	74	-30.69	0-360	199	V
6	*** 4.90146	49.41	PK2	33.9	-31	52.31	-	-	74	-21.69	32	213	V
	*** 4.90136	45.26	V1TV	33.9	-31	48.16	54	-5.84	-	-	32	213	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### MID CHANNEL RESULTS



### HORIZONTAL



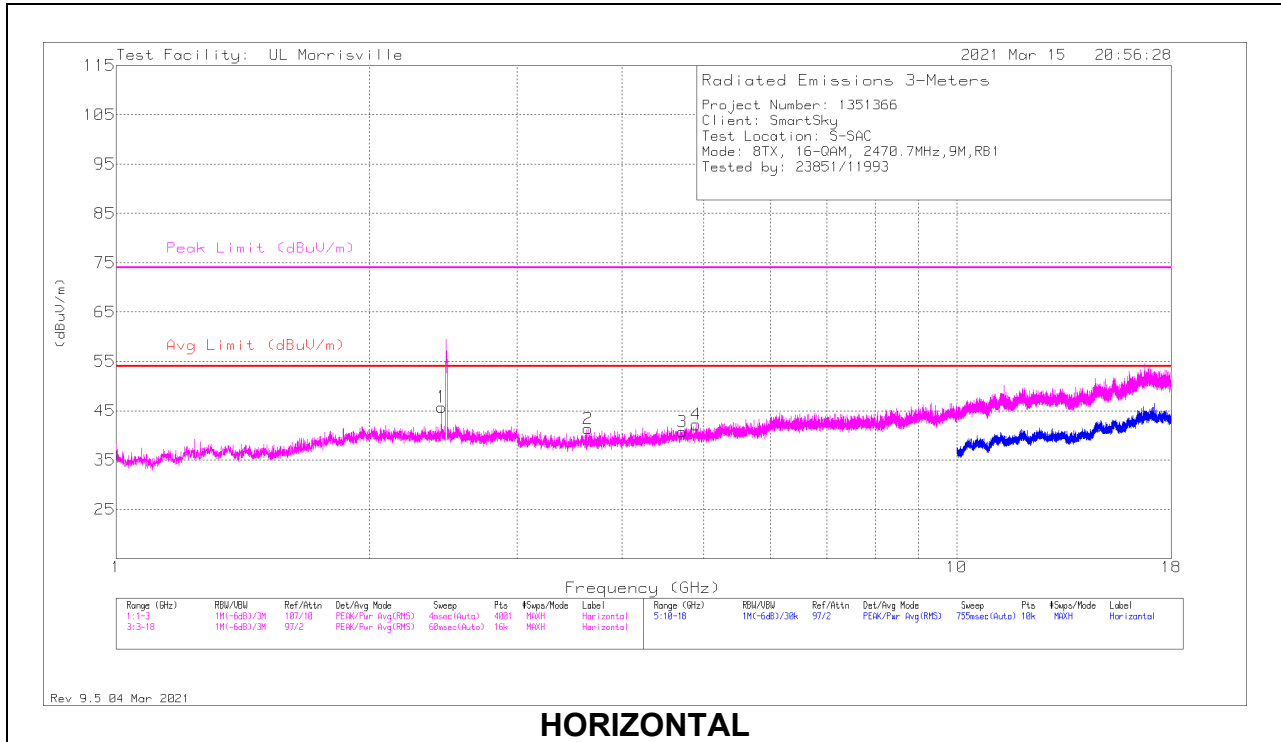
### VERTICAL

**RADIATED EMISSIONS**

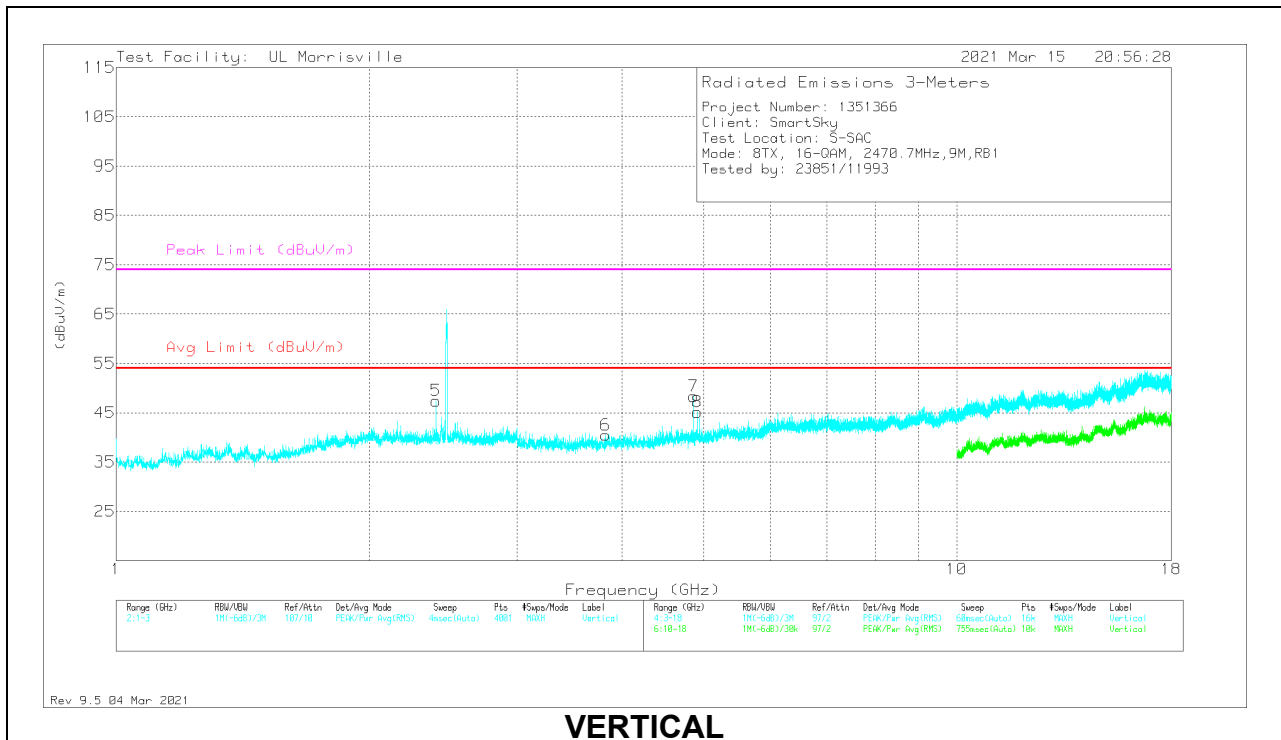
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.871	35.73	Pk	32.6	-25.9	42.43	54	-11.57	74	-31.57	0-360	200	H
2	*** 3.96938	39.26	Pk	33.4	-31.6	41.06	54	-12.94	74	-32.94	0-360	101	H
3	*** 4.91344	38.71	Pk	33.9	-30.9	41.71	54	-12.29	74	-32.29	0-360	101	H
5	*** 4.845	40.53	Pk	34	-31	43.53	54	-10.47	74	-30.47	0-360	200	V
6	*** 4.92094	43.78	Pk	33.9	-30.9	46.78	54	-7.22	74	-27.22	0-360	200	V
7	*** 7.34531	36.24	Pk	35.6	-27.4	44.44	54	-9.56	74	-29.56	0-360	101	V
4	2.402	35.96	Pk	32.1	-24.1	43.96	-	-	-	-	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 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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
2	*** 3.64406	40.23	Pk	33	-31.9	41.33	54	-12.67	74	-32.67	0-360	200	H
3	*** 4.71563	38.31	Pk	34.1	-31.7	40.71	54	-13.29	74	-33.29	0-360	101	H
4	*** 4.89469	39.12	Pk	34	-30.9	42.22	54	-11.78	74	-31.78	0-360	101	H
6	*** 3.82313	39.47	Pk	33.3	-32.3	40.47	54	-13.53	74	-33.53	0-360	200	V
7	*** 4.86566	48.06	PK2	34	-30.9	51.16	-	-	74	-22.84	35	202	V
	*** 4.86562	45.37	V1TV	34	-30.9	48.47	54	-5.53	-	-	35	202	V
8	*** 4.91531	42.14	Pk	33.9	-30.9	45.14	54	-8.86	74	-28.86	0-360	200	V
5	2.4025	39.42	Pk	32.1	-24.1	47.42	-	-	-	-	0-360	101	V
1	2.4375	37.51	Pk	32.4	-24.2	45.71	-	-	-	-	0-360	199	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - KDB558074 Method: Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

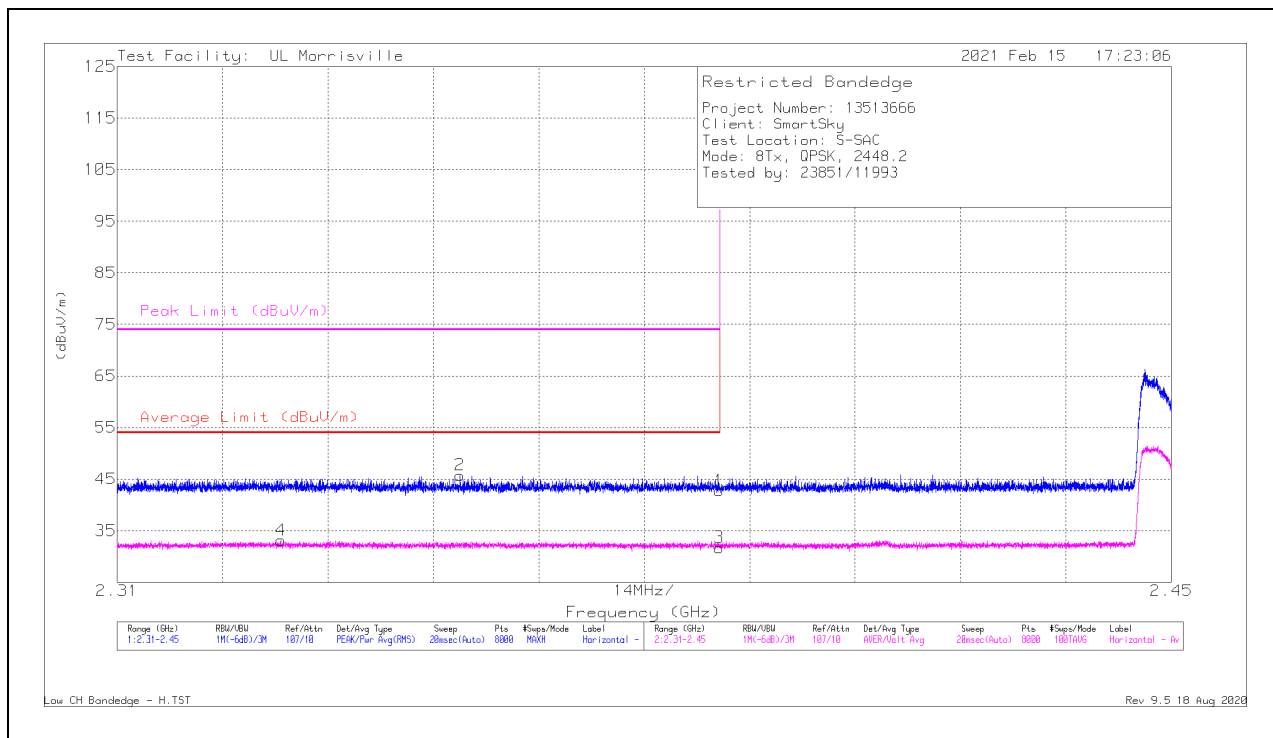


### 12.3. TRANSMITTER 1-18GHz – FRB CONFIGURATION

#### 12.3.1. TX ABOVE 1 GHz 4.5MHz, QPSK MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38998	34.64	Pk	32.1	-24	0	42.74	-	-	74	-31.26	196	101
2	*** 2.35554	37.35	Pk	32.2	-23.8	0	45.75	-	-	74	-28.25	196	101
3	*** 2.38998	23.61	ADV	32.1	-24	1.47	33.18	54	-20.82	-	-	196	101
4	*** 2.33172	24.74	ADV	32.1	-23.7	1.47	34.61	54	-19.39	-	-	196	101

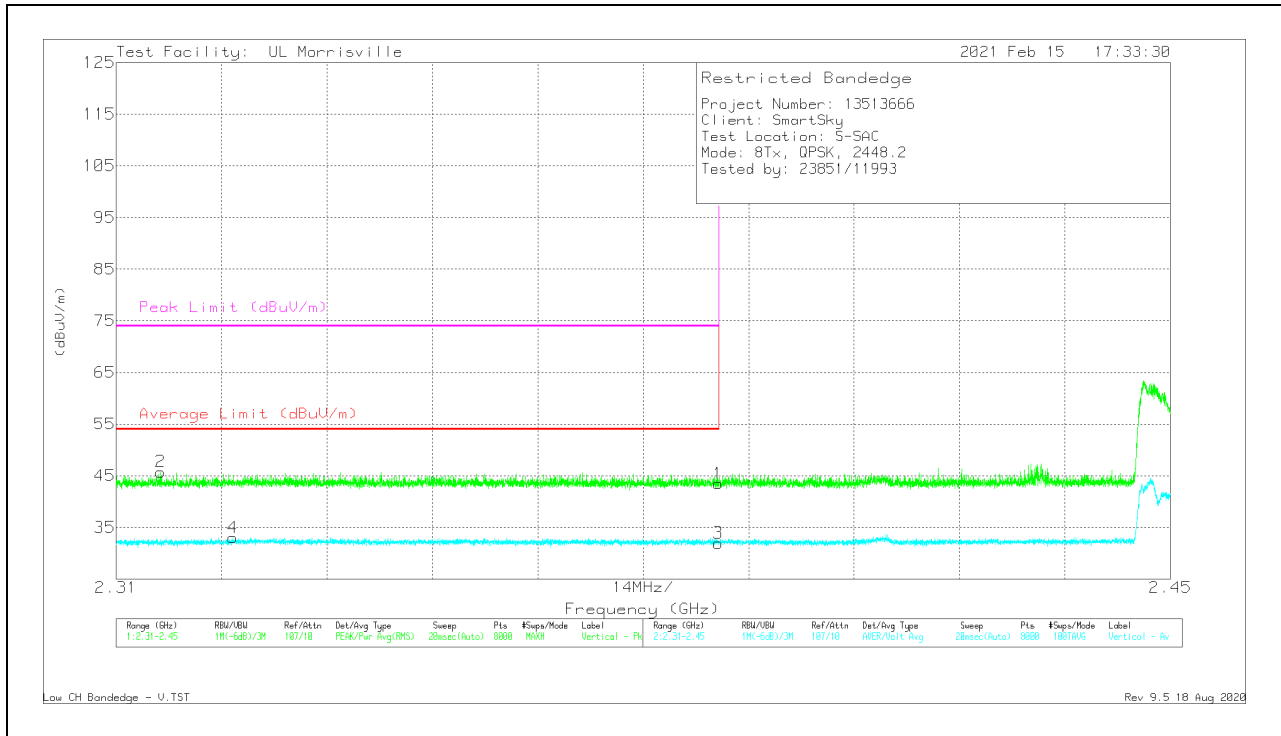
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

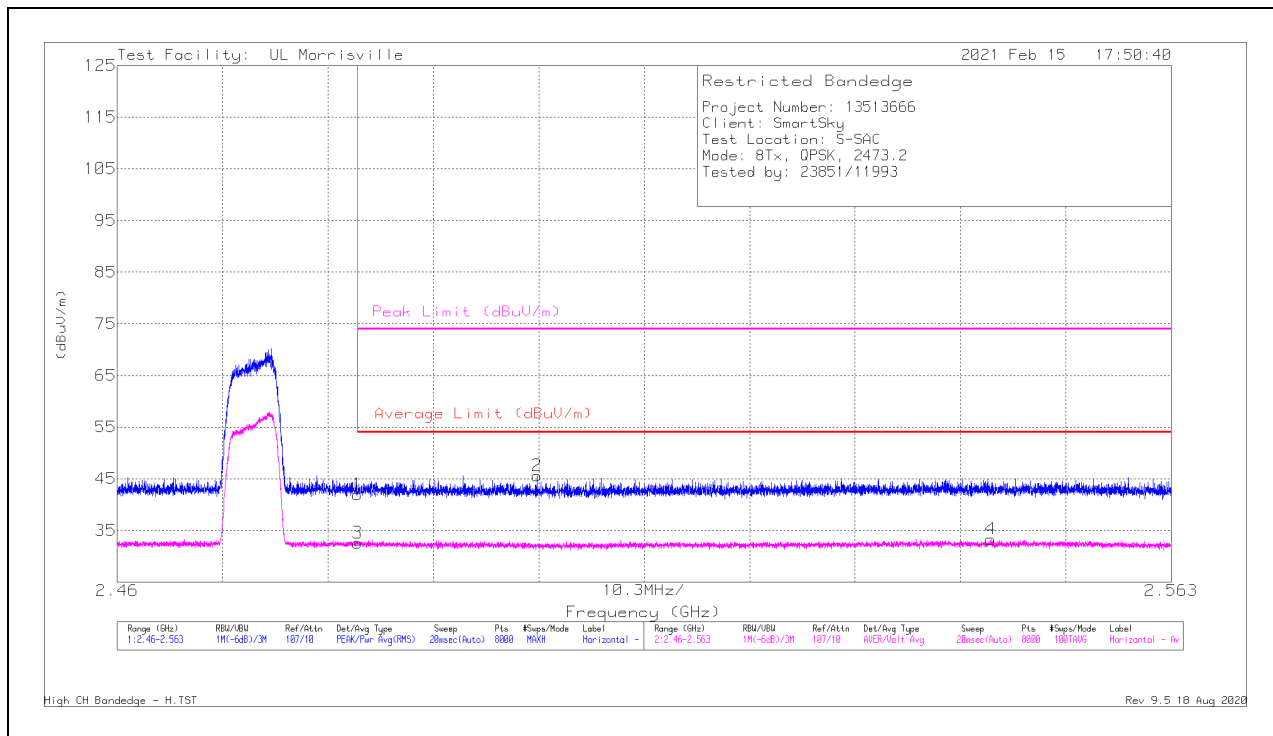


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38998	35.38	Pk	32.1	-24	0	43.48	-	-	74	-30.52	216	129
2	*** 2.31593	37.34	Pk	32	-23.6	0	45.74	-	-	74	-28.26	216	129
3	*** 2.38998	23.86	ADV	32.1	-24	1.47	33.43	54	-20.57	-	-	216	129
4	*** 2.32549	24.62	ADV	32.1	-23.7	1.47	34.49	54	-19.51	-	-	216	129

\* - 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)**

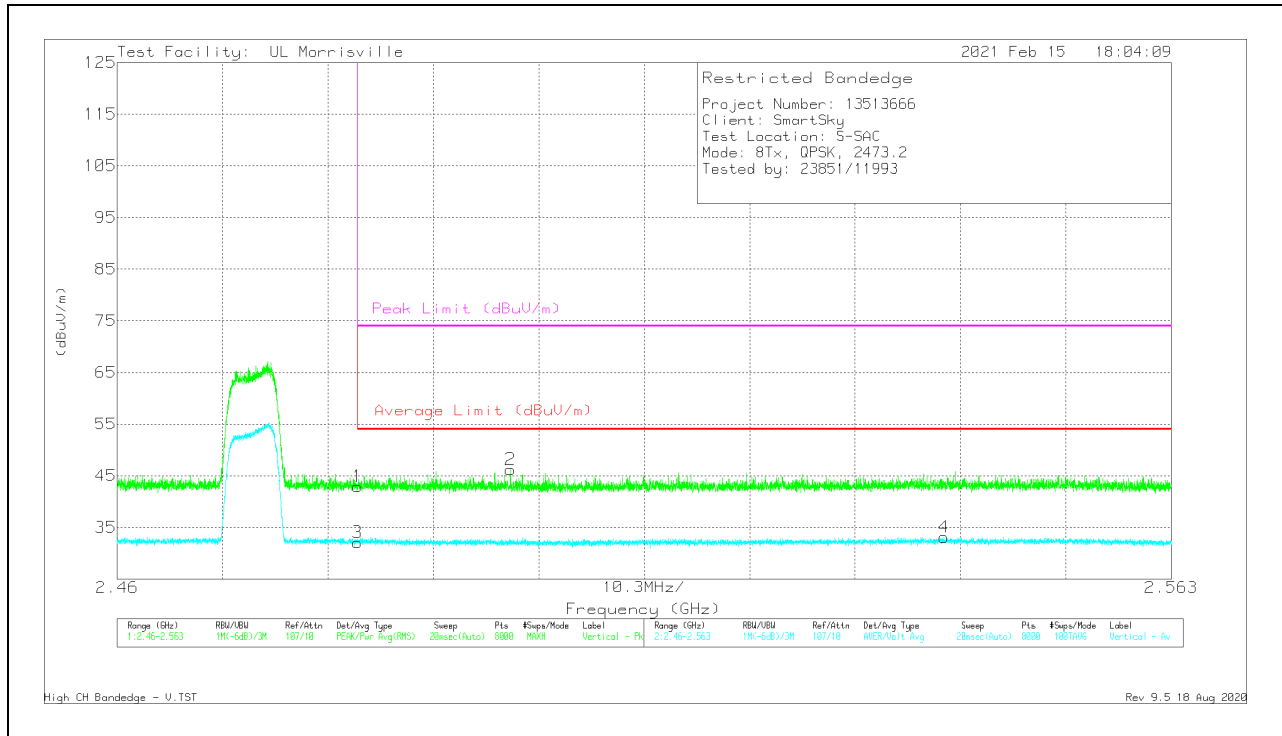
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cb/Fitr/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	33.95	Pk	32.4	-24.4	0	41.95	-	-	74	-32.05	250	129
2	** 2.50104	37.9	Pk	32.4	-24.7	0	45.6	-	-	74	-28.4	250	129
3	*** 2.4835	24.56	ADV	32.4	-24.4	1.47	34.03	54	-19.97	-	-	250	129
4	** 2.54536	25.53	ADV	32.7	-24.9	1.47	34.8	54	-19.2	-	-	250	129

\* - 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

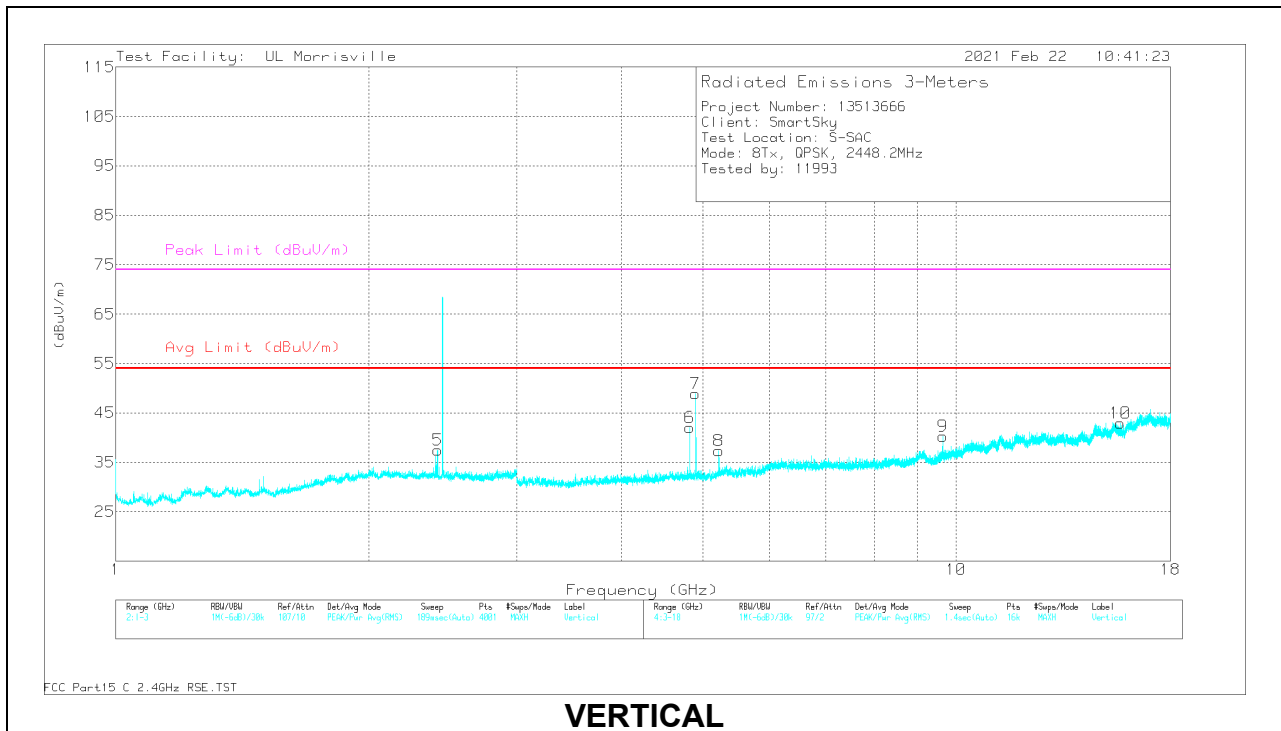
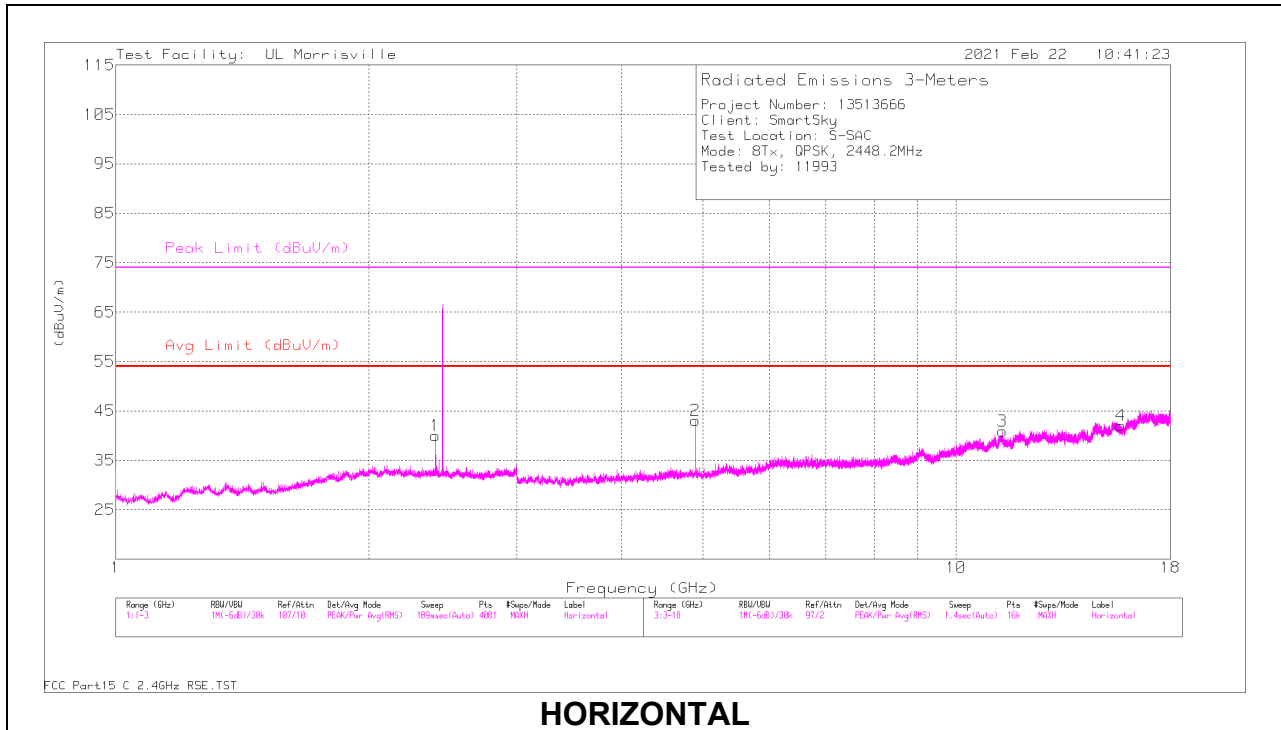


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	34.91	Pk	32.4	-24.4	0	42.91	-	-	74	-31.09	311	236
2	*** 2.49843	38.39	Pk	32.4	-24.6	0	46.19	-	-	74	-27.81	311	236
3	*** 2.4835	24.07	ADV	32.4	-24.4	1.47	33.54	54	-20.46	-	-	311	236
4	** 2.54078	25.29	ADV	32.6	-24.8	1.47	34.56	54	-19.44	-	-	311	236

\* - 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 RESULTS

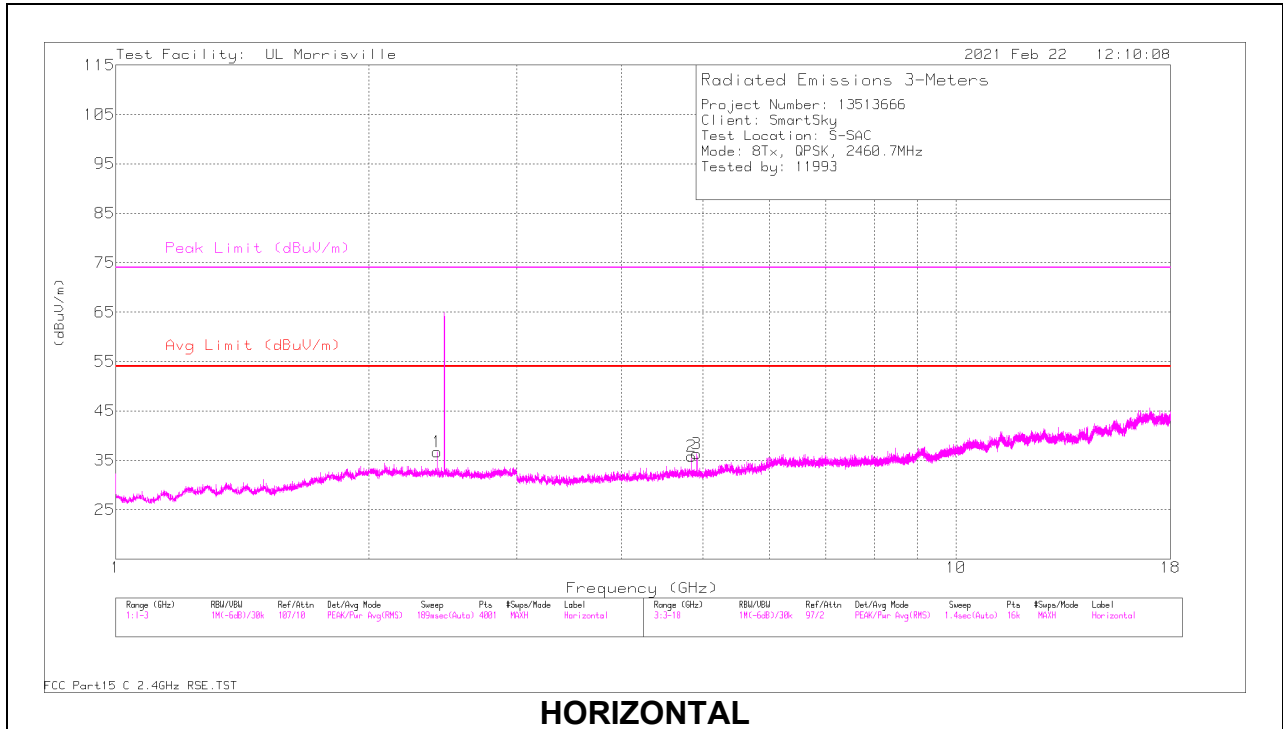


**RADIATED EMISSIONS**

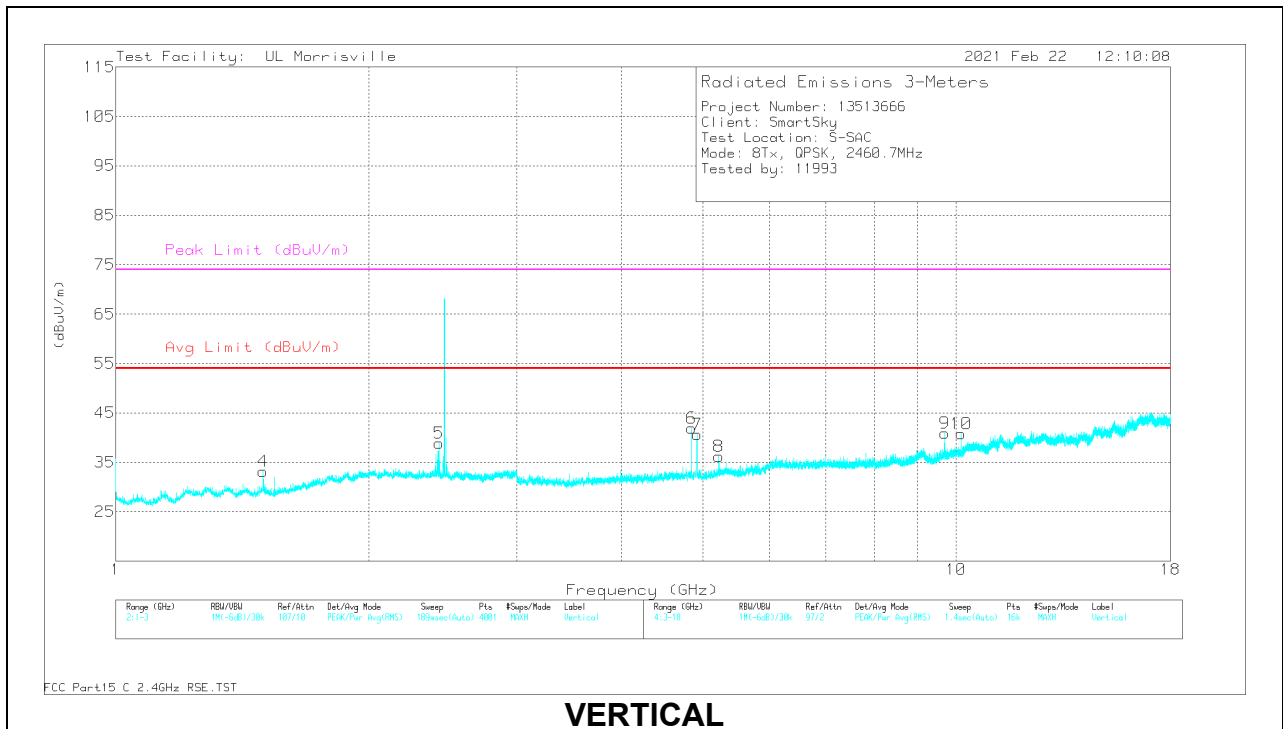
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*** 4.89739	48.54	PK2	34	-31	0	51.54	-	-	74	-22.46	209	112
	** 4.89651	34.7	ADV	34	-30.9	1.47	39.27	54	-14.73	-	-	209	112
3	*** 11.36886	34.69	PK2	38.1	-23.3	0	49.49	-	-	74	-24.51	175	113
	*** 11.36806	21.91	ADV	38.1	-23.3	1.47	38.18	54	-15.82	-	-	175	113
4	*** 15.7029	34.3	PK2	40.2	-23.7	0	50.8	-	-	74	-23.2	8	310
	*** 15.70279	22.39	ADV	40.2	-23.7	1.47	40.36	54	-13.64	-	-	8	310
6	*** 4.82066	45.26	PK2	34	-30.9	0	48.36	-	-	74	-25.64	35	197
	** 4.82059	40.24	ADV	34	-30.9	1.47	44.81	54	-9.19	-	-	35	197
7	*** 4.89635	51.03	PK2	34	-30.9	0	54.13	-	-	74	-19.87	223	102
	*** 4.8964	45.74	ADV	34	-30.9	1.47	50.31	54	-3.69	-	-	223	102
8	** 5.22221	42.62	PK2	34.3	-30.7	0	46.22	-	-	74	-27.78	352	101
	** 5.22243	33.83	ADV	34.3	-30.7	1.47	38.9	54	-15.1	-	-	352	101
10	*** 15.69254	35.16	PK2	40.2	-23.8	0	51.56	-	-	74	-22.44	166	348
	*** 15.69337	22.29	ADV	40.2	-23.8	1.47	40.16	54	-13.84	-	-	166	348
1	2.402	32.06	PK	32.1	-24.1	0	40.06	-	-	-	-	0-360	199
5	2.4155	29.47	PK	32.2	-24.2	0	37.47	-	-	-	-	0-360	199
9	9.64125	29.88	PK	36.6	-26.2	0	40.28	-	-	-	-	0-360	101

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

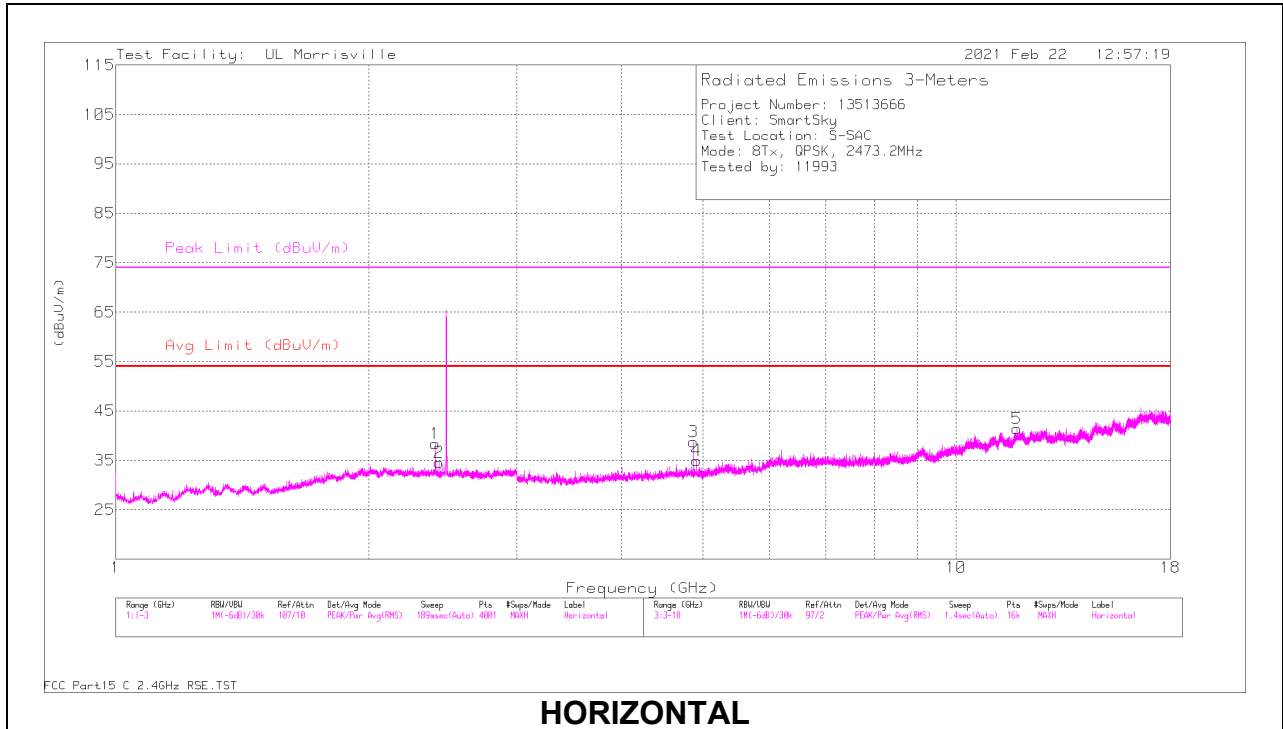
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*** 1.49893	33.56	PK2	28	-22.4	0	39.16	-	-	74	-34.84	303	127
	*** 1.49744	21.31	ADV	28	-22.4	1.47	28.38	54	-25.62	-	-	303	127
2	*** 4.84552	40.62	PK2	34	-31	0	43.62	-	-	74	-30.38	333	157
	*** 4.84556	30.47	ADV	34	-31	1.47	34.94	54	-19.06	-	-	333	157
3	*** 4.91514	43.03	PK2	33.9	-30.9	0	46.03	-	-	74	-27.97	331	108
	*** 4.91524	32.01	ADV	33.9	-30.9	1.47	36.48	54	-17.52	-	-	331	108
6	*** 4.84564	45.07	PK2	34	-31	0	48.07	-	-	74	-25.93	51	207
	*** 4.84557	39.82	ADV	34	-31	1.47	44.29	54	-9.71	-	-	51	207
7	*** 4.92206	54.44	PK2	33.9	-30.9	0	57.44	-	-	74	-16.56	37	216
	*** 4.92142	38.16	ADV	33.9	-30.9	1.47	42.63	54	-11.37	-	-	37	216
8	** 5.22242	43.47	PK2	34.3	-30.7	0	47.07	-	-	74	-26.93	350	110
	** 5.22246	34.19	ADV	34.3	-30.7	1.47	39.26	54	-14.74	-	-	350	110
1	2.414	28.64	Pk	32.2	-24.1	0	36.74	-	-	-	-	0-360	200
5	2.426	30.73	Pk	32.3	-24.1	0	38.93	-	-	-	-	0-360	200
9	9.69094	29.95	Pk	36.7	-25.8	0	40.85	-	-	-	-	0-360	101
10	10.13813	28.96	Pk	37.3	-25.5	0	40.76	-	-	-	-	0-360	101

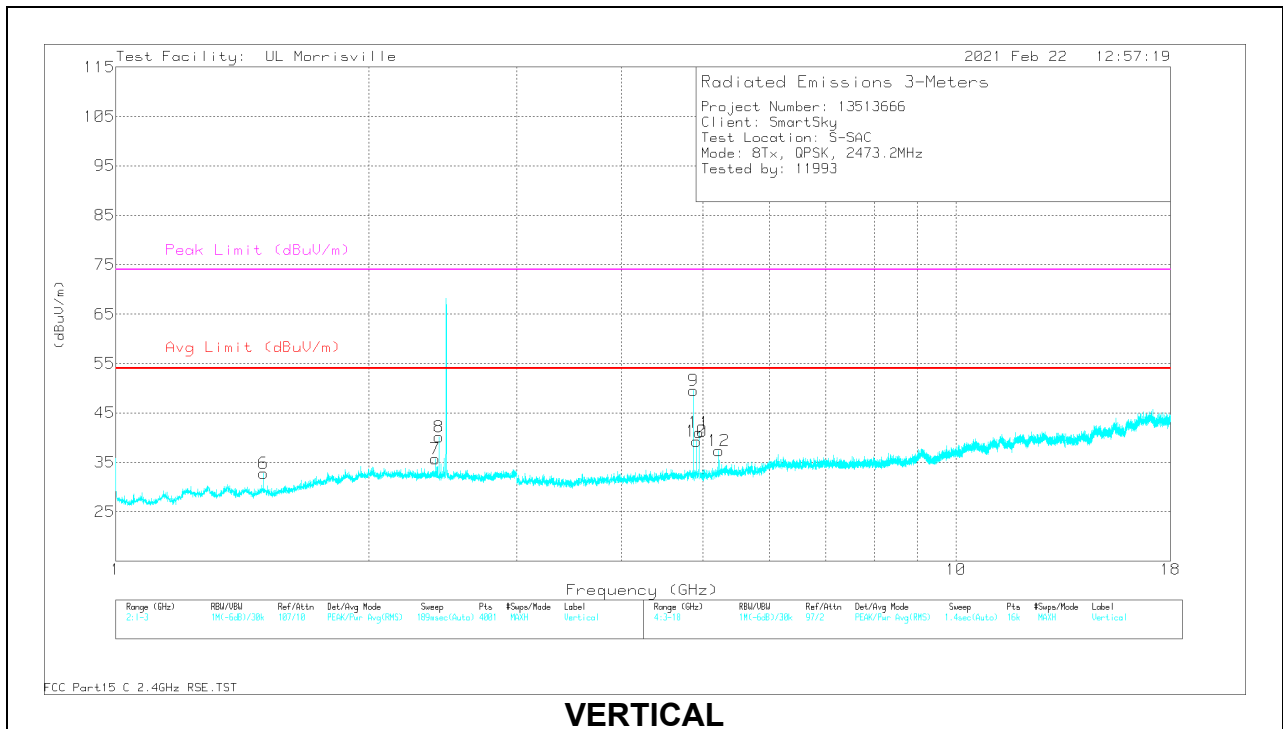
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average



### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

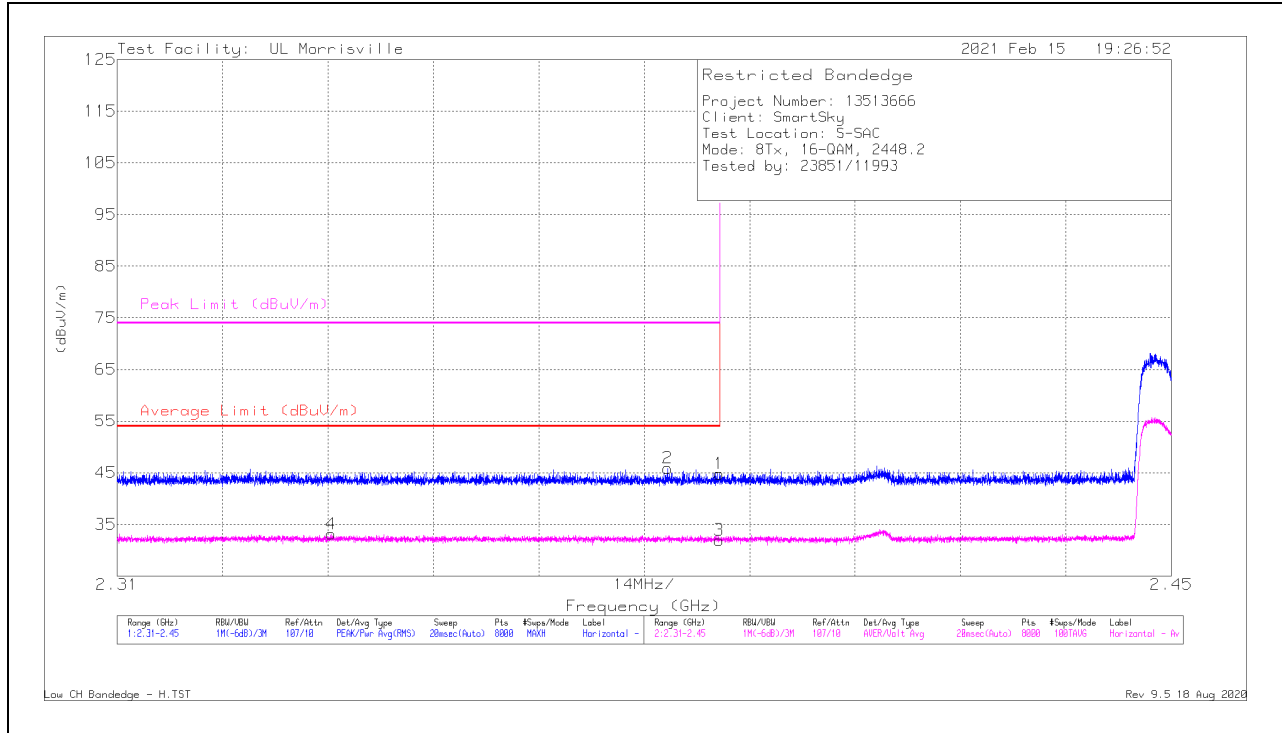
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	*** 1.50002	34.67	PK2	28	-22.4	0	40.27	-	-	74	-33.73	214	194
	*** 1.50005	24.45	ADV	28	-22.4	1.47	31.52	54	-22.48	-	-	214	194
3	*** 4.87066	42.56	PK2	34	-30.9	0	45.66	-	-	74	-28.34	188	144
	*** 4.87057	34.66	ADV	34	-30.9	1.47	39.23	54	-14.77	-	-	188	144
4	*** 4.91522	42.24	PK2	33.9	-30.9	0	45.24	-	-	74	-28.76	288	118
	*** 4.91526	30.96	ADV	33.9	-30.9	1.47	35.43	54	-18.57	-	-	288	118
5	*** 11.80987	34.92	PK2	38.6	-24.3	0	49.22	-	-	74	-24.78	14	261
	*** 11.81007	22.32	ADV	38.6	-24.3	1.47	38.09	54	-15.91	-	-	14	261
9	*** 4.87052	49.52	PK2	34	-30.9	0	52.62	-	-	74	-21.38	53	205
	*** 4.87062	46.53	ADV	34	-30.9	1.47	51.1	54	-2.9	-	-	53	205
10	*** 4.91516	45.17	PK2	33.9	-30.9	0	48.17	-	-	74	-25.83	210	134
	*** 4.91525	33.86	ADV	33.9	-30.9	1.47	38.33	54	-15.67	-	-	210	134
11	*** 4.94612	47.04	PK2	33.9	-30.9	0	50.04	-	-	74	-23.96	53	201
	*** 4.94638	38.08	ADV	33.9	-30.9	1.47	42.55	54	-11.45	-	-	53	201
12	** 5.22239	44.21	PK2	34.3	-30.7	0	47.81	-	-	74	-26.19	341	197
	** 5.22252	35.17	ADV	34.3	-30.7	1.47	40.24	54	-13.76	-	-	341	197
1	2.402	30.32	PK	32.1	-24.1	0	38.32	-	-	-	-	0-360	199
7	2.402	27.71	PK	32.1	-24.1	0	35.71	-	-	-	-	0-360	101
2	2.426	26.34	PK	32.3	-24.1	0	34.54	-	-	-	-	0-360	199
8	2.426	31.96	PK	32.3	-24.1	0	40.16	-	-	-	-	0-360	199

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### 12.3.2. TX ABOVE 1 GHz 4.5MHz, 16-QAM MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38998	36.7	Pk	32.1	-24	0	44.8	-	-	74	-29.2	231	108
2	*** 2.38309	37.58	Pk	32.2	-23.9	0	45.88	-	-	74	-28.12	231	108
3	*** 2.38998	23.83	ADV	32.1	-24	1.44	33.37	54	-20.63	-	-	231	108
4	*** 2.33842	24.73	ADV	32.2	-23.8	1.44	34.57	54	-19.43	-	-	231	108

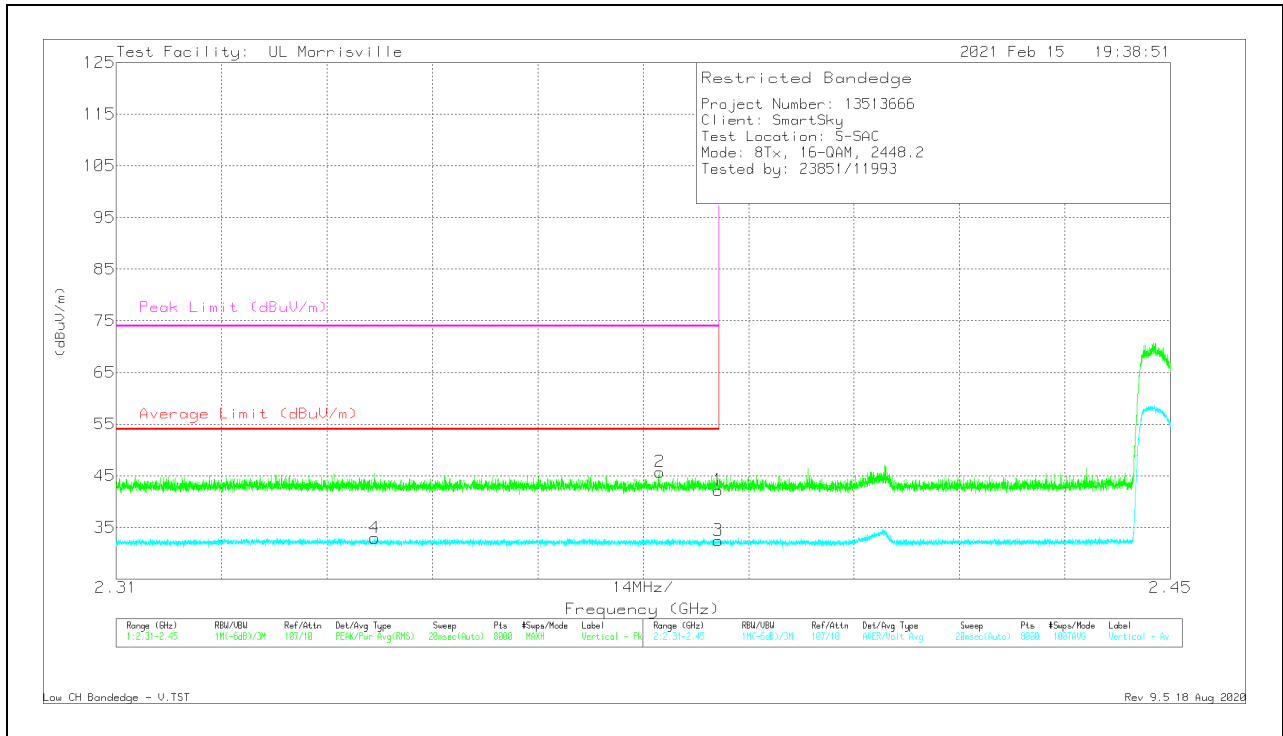
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

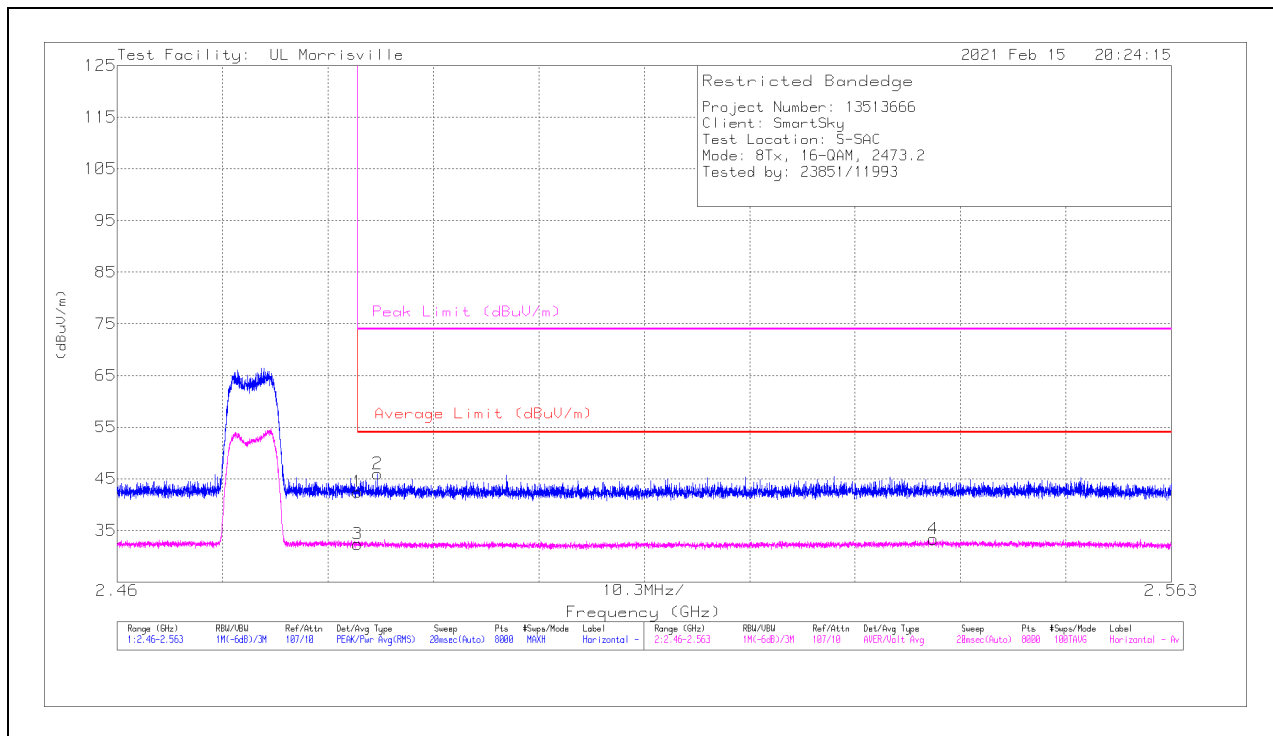


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38998	34.09	Pk	32.1	-24	0	42.19	-	-	74	-31.81	176	102
2	*** 2.3822	37.45	Pk	32.2	-23.9	0	45.75	-	-	74	-28.25	176	102
3	*** 2.38998	24.35	ADV	32.1	-24	1.44	33.89	54	-20.11	-	-	176	102
4	*** 2.34434	24.69	ADV	32.2	-23.9	1.44	34.43	54	-19.57	-	-	176	102

\* - 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)**

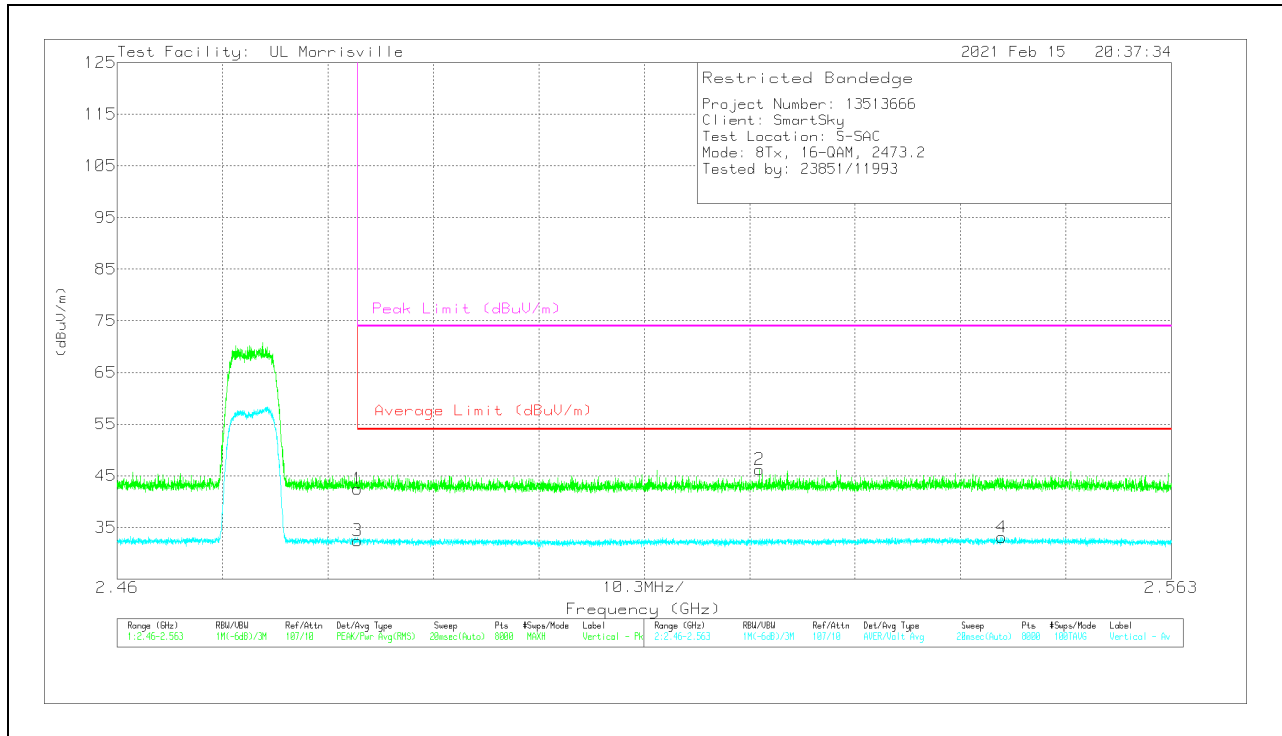
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cb/Fitr/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	34.46	Pk	32.4	-24.4	0	42.46	-	-	74	-31.54	242	104
2	*** 2.48545	38.07	Pk	32.4	-24.5	0	45.97	-	-	74	-28.03	242	104
3	*** 2.4835	24.36	ADV	32.4	-24.4	1.44	33.8	54	-20.2	-	-	242	104
4	** 2.53973	25.44	ADV	32.6	-24.7	1.44	34.78	54	-19.22	-	-	242	104

\* - 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

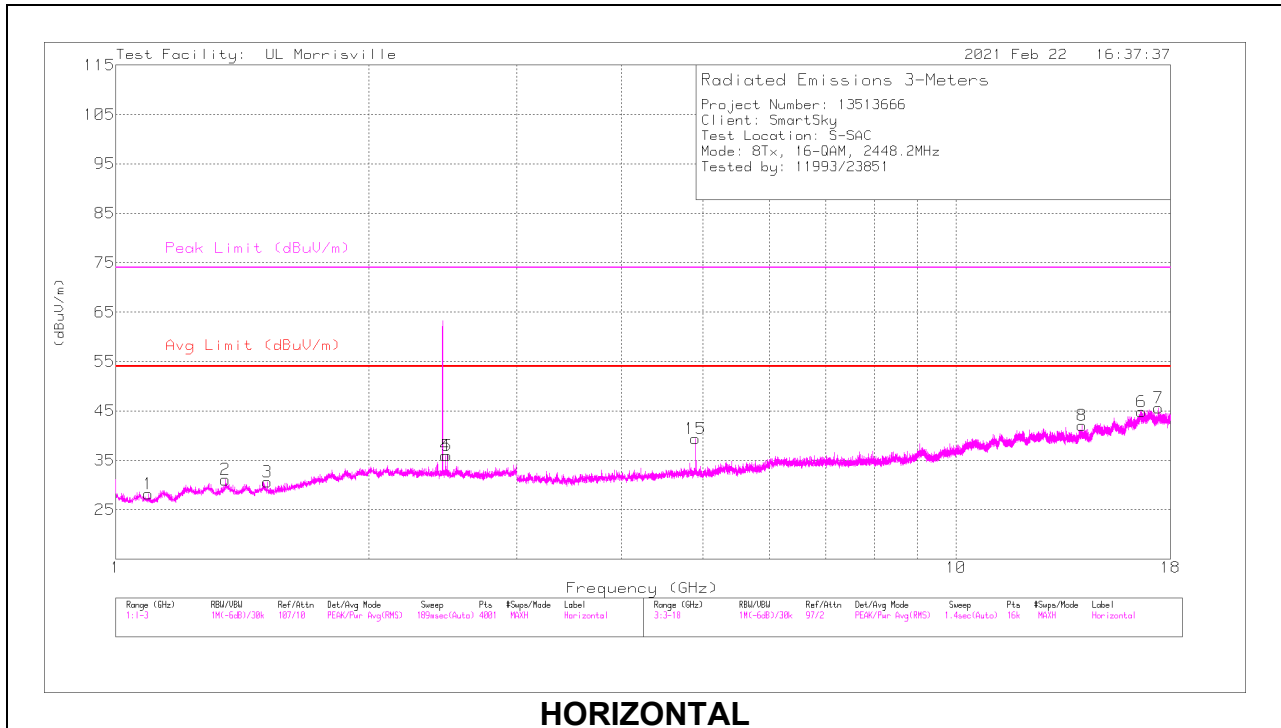


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	34.49	Pk	32.4	-24.4	0	42.49	-	-	74	-31.51	274	107
2	** 2.52276	38.39	Pk	32.5	-24.7	0	46.19	-	-	74	-27.81	274	107
3	*** 2.4835	24.42	ADV	32.4	-24.4	1.44	33.86	54	-20.14	-	-	274	107
4	** 2.54642	25.31	ADV	32.7	-24.9	1.44	34.55	54	-19.45	-	-	274	107

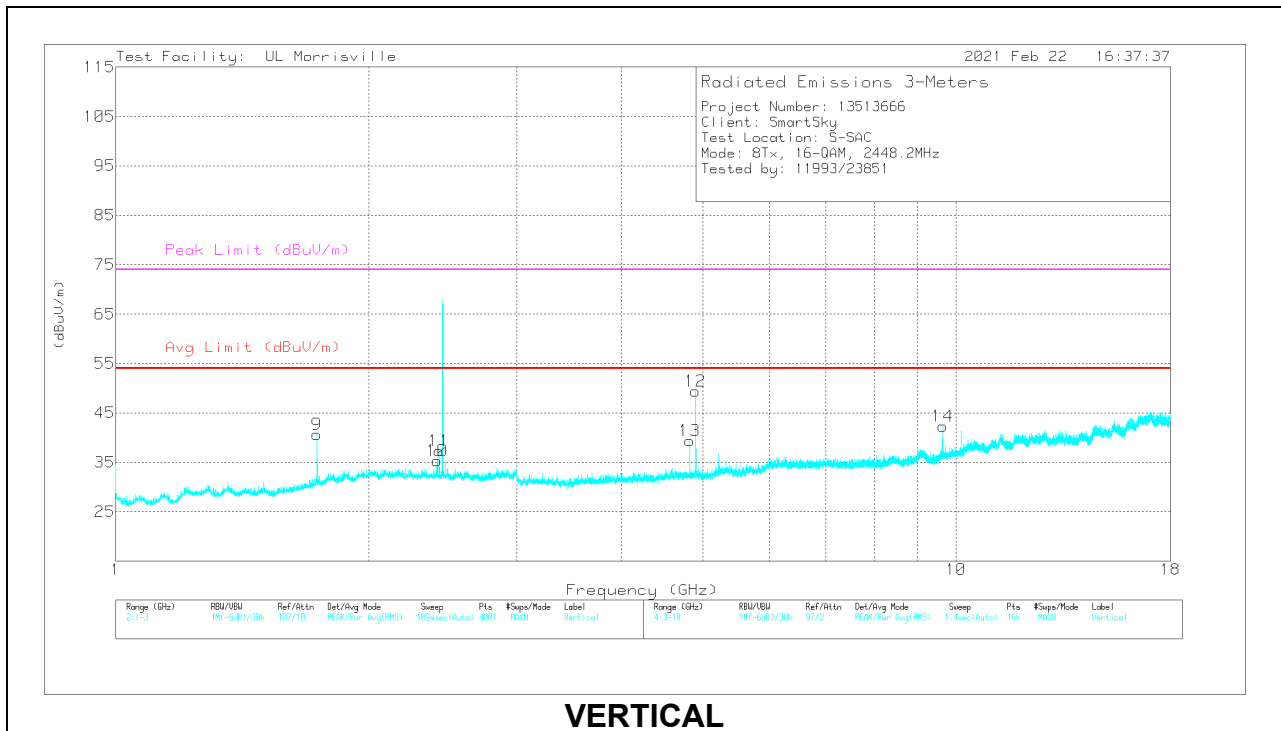
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 1.09437	33.91	PK2	27.6	-24.3	0	37.21	-	-	74	-36.79	110	254
	*** 1.09525	20.99	ADV	27.6	-24.3	1.44	25.73	54	-28.27	-	-	110	254
2	*** 1.35131	34.1	PK2	29	-22.9	0	40.2	-	-	74	-33.8	0	143
	*** 1.3495	21.1	ADV	29	-22.9	1.44	28.64	54	-25.36	-	-	0	143
3	*** 1.51533	33.08	PK2	28	-22.5	0	38.58	-	-	74	-35.42	258	355
	*** 1.51728	20.77	ADV	28	-22.4	1.44	27.81	54	-26.19	-	-	258	355
9	** 1.73515	33.74	PK2	29.7	-22.2	0	41.24	-	-	74	-32.76	58	289
	** 1.73656	20.75	ADV	29.7	-22.2	1.44	29.69	54	-24.31	-	-	58	289
15	*** 4.89666	49.54	PK2	34	-30.9	0	52.64	-	-	74	-21.36	200	108
	*** 4.8964	41.1	ADV	34	-30.9	1.44	45.64	54	-8.36	-	-	200	108
12	*** 4.89647	52.56	PK2	34	-30.9	0	55.66	-	-	74	-18.34	213	106
	*** 4.89638	47.52	ADV	34	-30.9	1.44	52.06	54	-1.94	-	-	213	106
13	*** 4.82052	45.01	PK2	34	-30.9	0	48.11	-	-	74	-25.89	35	209
	*** 4.82053	39.87	ADV	34	-30.9	1.44	44.41	54	-9.59	-	-	35	209
10	2.4115	27.2	Pk	32.2	-24.1	0	35.3	-	-	-	-	0-360	101
11	2.426	29.1	Pk	32.3	-24.1	0	37.3	-	-	-	-	0-360	101
4	2.469	27.91	Pk	32.5	-24.4	0	36.01	-	-	-	-	0-360	200
5	2.48	27.9	Pk	32.4	-24.4	0	35.9	-	-	-	-	0-360	200
14	9.64125	31.85	Pk	36.6	-26.2	0	42.25	-	-	-	-	0-360	101
8	14.1225	27.41	Pk	38.8	-24.2	0	42.01	-	-	-	-	0-360	101
6	16.63594	26.66	Pk	41.7	-23.5	0	44.86	-	-	-	-	0-360	101
7	17.40656	27.59	Pk	41.1	-23.1	0	45.59	-	-	-	-	0-360	200

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

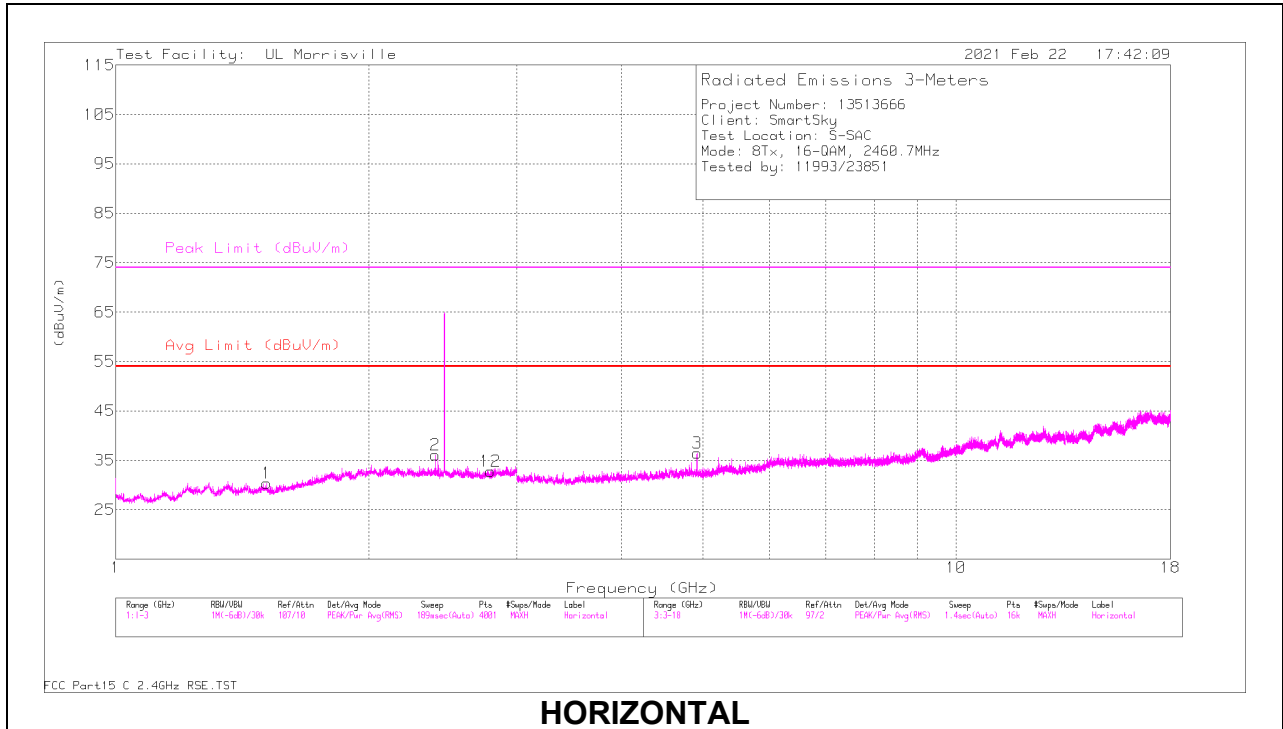
Pk - Peak detector

PK2 - Maximum Peak

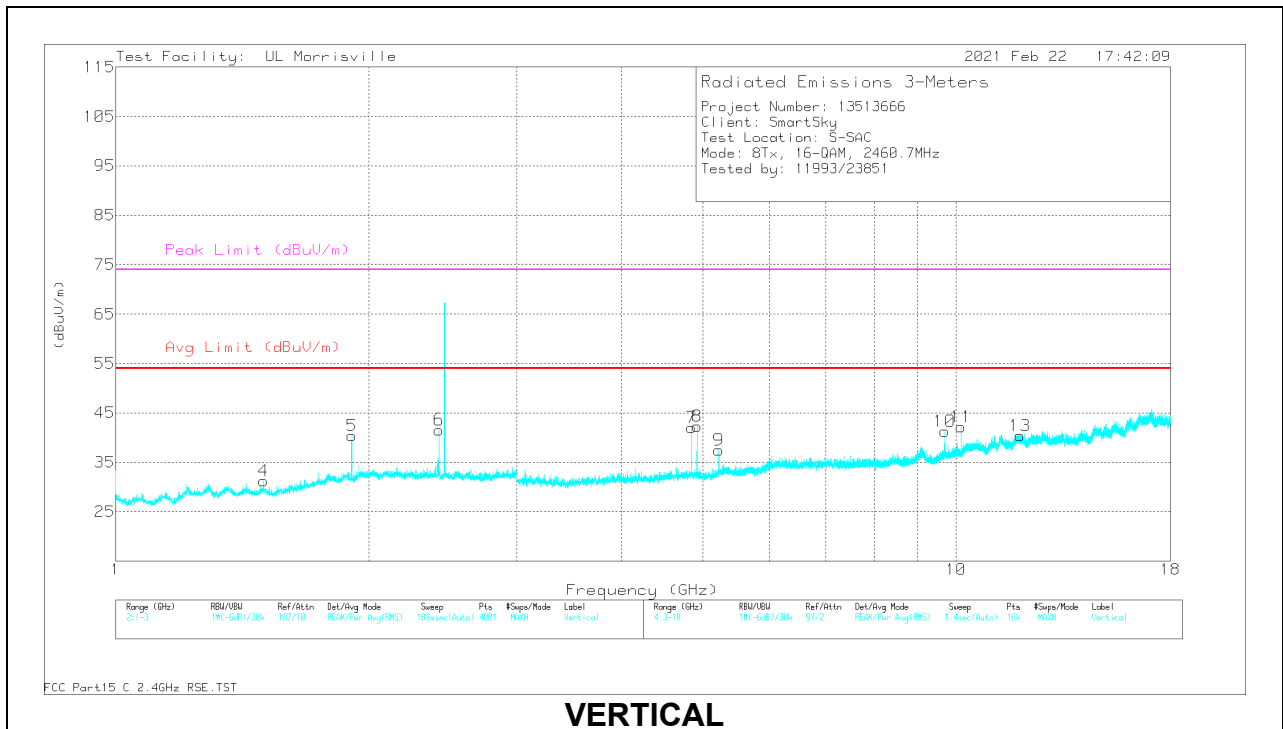
ADV - Linear Voltage Average



### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 1.51092	33.35	PK2	28	-22.4	0	38.95	-	-	74	-35.05	296	200
	*** 1.51149	20.83	ADV	28	-22.5	1.44	27.77	54	-26.23	-	-	296	200
12	*** 2.79005	35.66	PK2	32.4	-25.9	0	42.16	-	-	74	-31.84	276	289
	*** 2.78947	22.85	ADV	32.4	-25.9	1.44	30.79	54	-23.21	-	-	276	289
4	*** 1.49998	34.04	PK2	28	-22.4	0	39.64	-	-	74	-34.36	206	332
	*** 1.49953	21.44	ADV	28	-22.4	1.44	28.48	54	-25.52	-	-	206	332
5	** 1.96562	33.7	PK2	31.3	-22.5	0	42.5	-	-	74	-31.5	73	386
	** 1.95395	21.17	ADV	31.2	-22.5	1.44	31.31	54	-22.69	-	-	73	386
3	*** 4.92122	46.61	PK2	33.9	-30.9	0	49.61	-	-	74	-24.39	168	103
	*** 4.92135	32.56	ADV	33.9	-30.9	1.44	37	54	-17	-	-	168	103
7	*** 4.84561	44.87	PK2	34	-31	0	47.87	-	-	74	-26.13	51	219
	*** 4.84557	39.75	ADV	34	-31	1.44	44.19	54	-9.81	-	-	51	219
8	*** 4.91992	55.86	PK2	33.9	-30.9	0	58.86	-	-	74	-15.14	36	195
	*** 4.92117	37.4	ADV	33.9	-30.9	1.44	41.84	54	-12.16	-	-	36	195
9	** 5.22236	42.89	PK2	34.3	-30.7	0	46.49	-	-	74	-27.51	350	108
	** 5.22236	33.94	ADV	34.3	-30.7	1.44	38.98	54	-15.02	-	-	350	108
13	*** 11.92297	35.7	PK2	38.6	-24.5	0	49.8	-	-	74	-24.2	175	220
	*** 11.9195	22.94	ADV	38.6	-24.6	1.44	38.38	54	-15.62	-	-	175	220
2	2.402	28.1	Pk	32.1	-24.1	0	36.1	-	-	-	-	0-360	200
6	2.426	33.4	Pk	32.3	-24.1	0	41.6	-	-	-	-	0-360	101
10	9.69094	30.37	Pk	36.7	-25.8	0	41.27	-	-	-	-	0-360	101
11	10.13719	30.42	Pk	37.3	-25.5	0	42.22	-	-	-	-	0-360	101

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

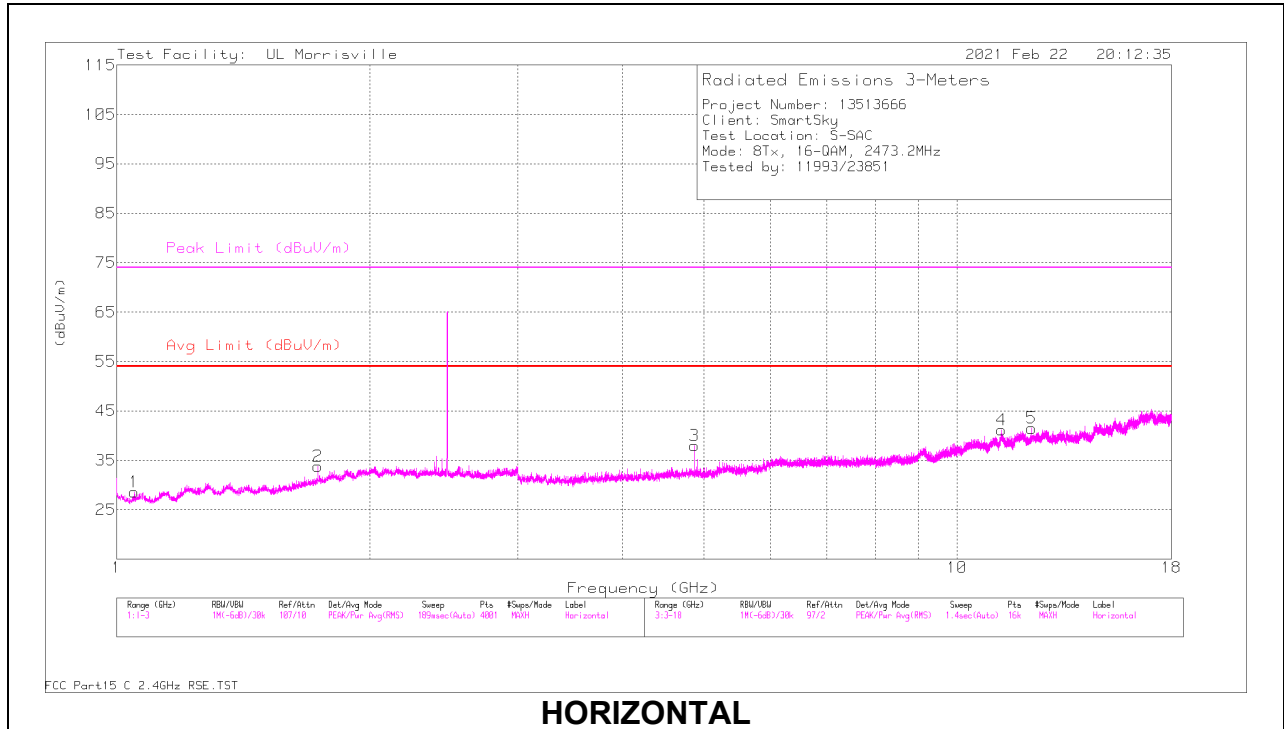
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

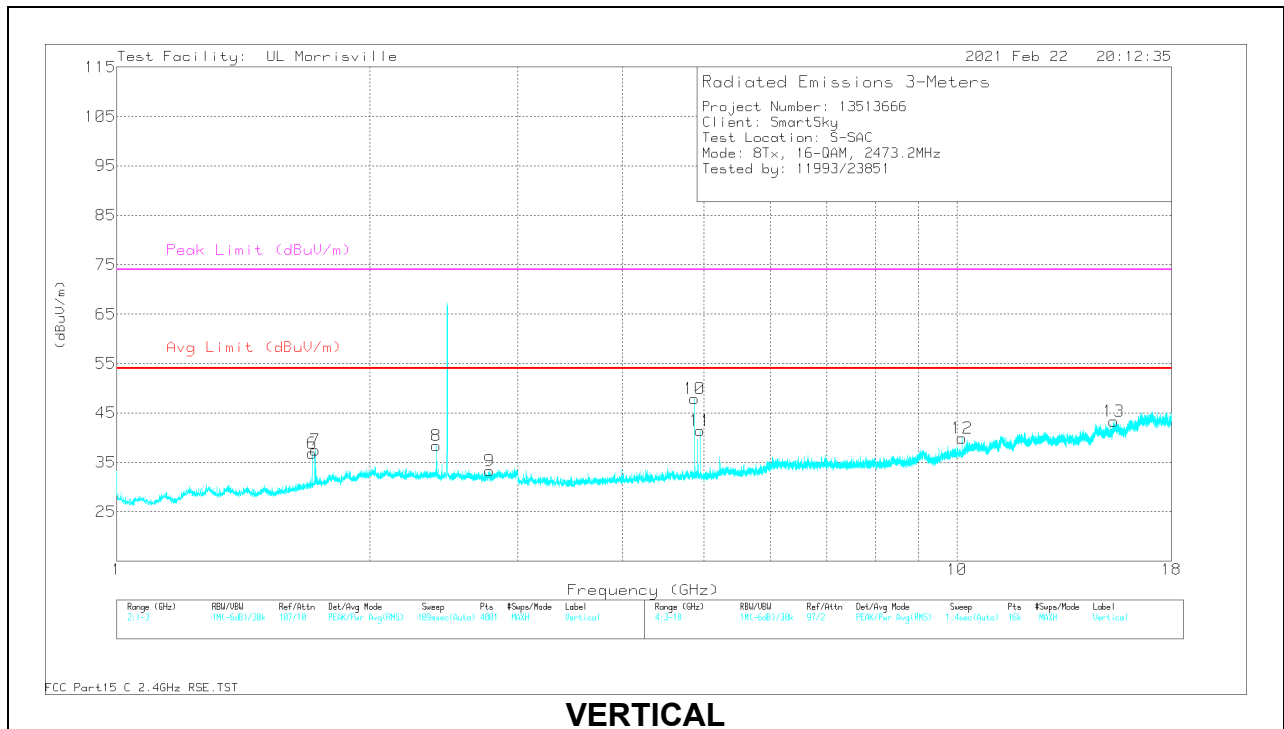
PK2 - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

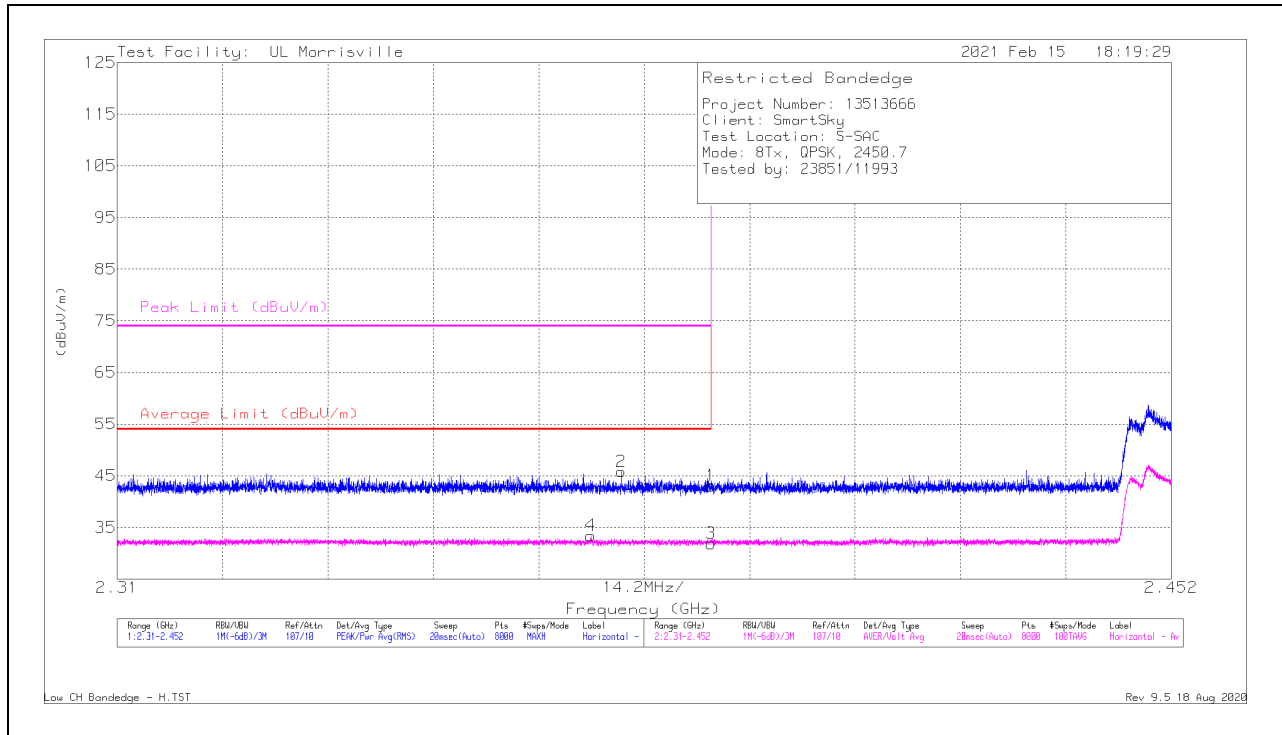
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 1.05016	33.91	PK2	27.7	-24.5	0	37.11	-	-	74	-36.89	192	156
	*** 1.04995	22.38	ADV	27.7	-24.5	1.44	27.02	54	-26.98	-	-	192	156
2	** 1.73482	33.62	PK2	29.7	-22.2	0	41.12	-	-	74	-32.88	314	147
	** 1.73249	20.86	ADV	29.7	-22.2	1.44	29.8	54	-24.2	-	-	314	147
6	*** 1.70726	33.04	PK2	29.6	-22.1	0	40.54	-	-	74	-33.46	135	169
	*** 1.70787	20.25	ADV	29.6	-22.1	1.44	29.19	54	-24.81	-	-	135	169
7	** 1.72281	33.2	PK2	29.6	-22.2	0	40.6	-	-	74	-33.4	82	201
	** 1.72593	20.68	ADV	29.6	-22.2	1.44	29.52	54	-24.48	-	-	82	201
9	*** 2.77875	35.59	PK2	32.4	-25.8	0	42.19	-	-	74	-31.81	253	127
	*** 2.77965	22.91	ADV	32.4	-25.9	1.44	30.85	54	-23.15	-	-	253	127
3	*** 4.87048	42.5	PK2	34	-30.9	0	45.6	-	-	74	-28.4	251	110
	*** 4.87054	35.27	ADV	34	-30.9	1.44	39.81	54	-14.19	-	-	251	110
4	*** 11.29968	35.06	PK2	38.1	-23.1	0	50.06	-	-	74	-23.94	282	135
	*** 11.30097	22.46	ADV	38.1	-23.1	1.44	38.9	54	-15.1	-	-	282	135
5	*** 12.2723	34.51	PK2	38.8	-24.1	0	49.21	-	-	74	-24.79	131	316
	*** 12.27322	21.89	ADV	38.8	-24.1	1.44	38.03	54	-15.97	-	-	131	316
10	*** 4.87059	49.21	PK2	34	-30.9	0	52.31	-	-	74	-21.69	52	201
	*** 4.87061	46.35	ADV	34	-30.9	1.44	50.89	54	-3.11	-	-	52	201
11	*** 4.94615	47.45	PK2	33.9	-30.9	0	50.45	-	-	74	-23.55	51	177
	*** 4.94639	37.47	ADV	33.9	-30.9	1.44	41.91	54	-12.09	-	-	51	177
13	*** 15.38367	34.05	PK2	40.3	-22.5	0	51.85	-	-	74	-22.15	7	113
	*** 15.38022	21.38	ADV	40.3	-22.6	1.44	40.52	54	-13.48	-	-	7	113
8	2.402	30.38	Pk	32.1	-24.1	0	38.38	-	-	-	-	0-360	101
12	10.13719	28.11	Pk	37.3	-25.5	0	39.91	-	-	-	-	0-360	101

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### 12.3.3. TX ABOVE 1 GHz 9 MHz, QPSK MODE IN THE 2.4 GHz BAND BANDEDGE (LOW CHANNEL)

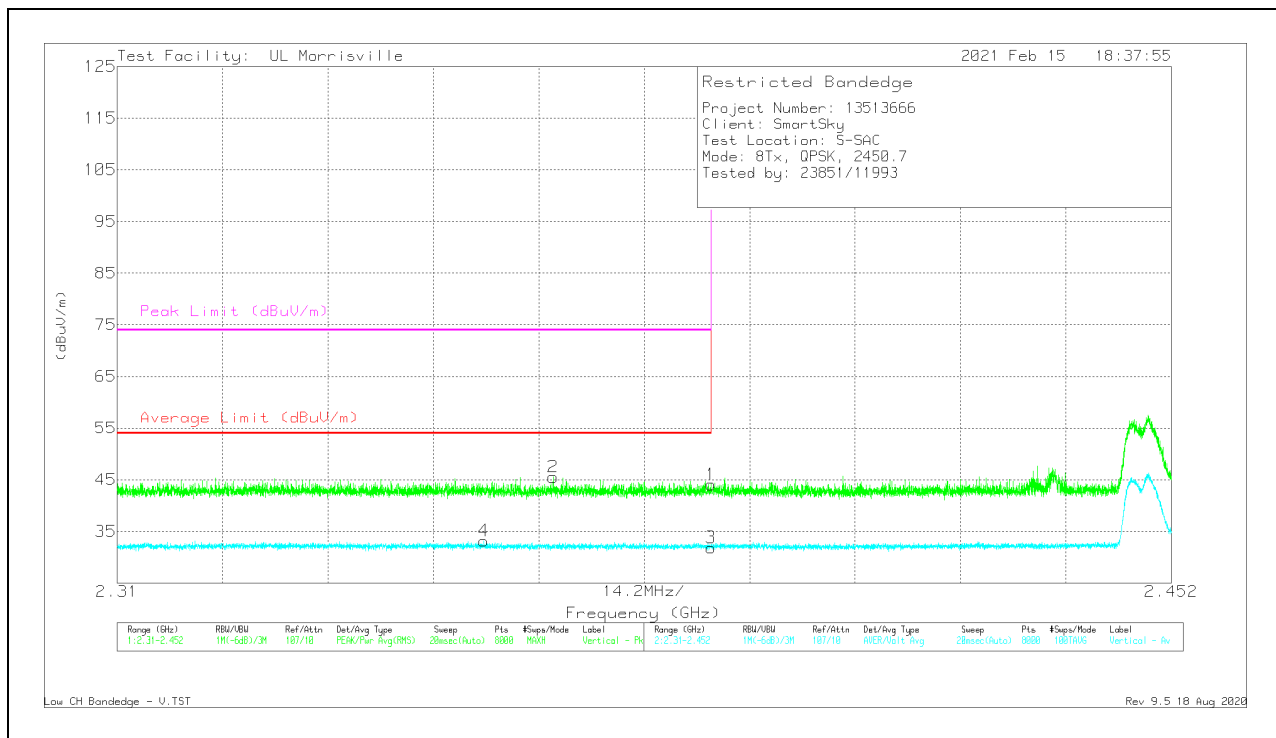
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38999	34.99	Pk	32.1	-24	0	43.09	-	-	74	-30.91	175	239
2	*** 2.3779	37.49	Pk	32.2	-23.9	0	45.79	-	-	74	-28.21	175	239
3	*** 2.38999	23.79	ADV	32.1	-24	1.39	33.28	54	-20.72	-	-	175	239
4	*** 2.3738	25.13	ADV	32.2	-23.9	1.39	34.82	54	-19.18	-	-	175	239

\* - 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

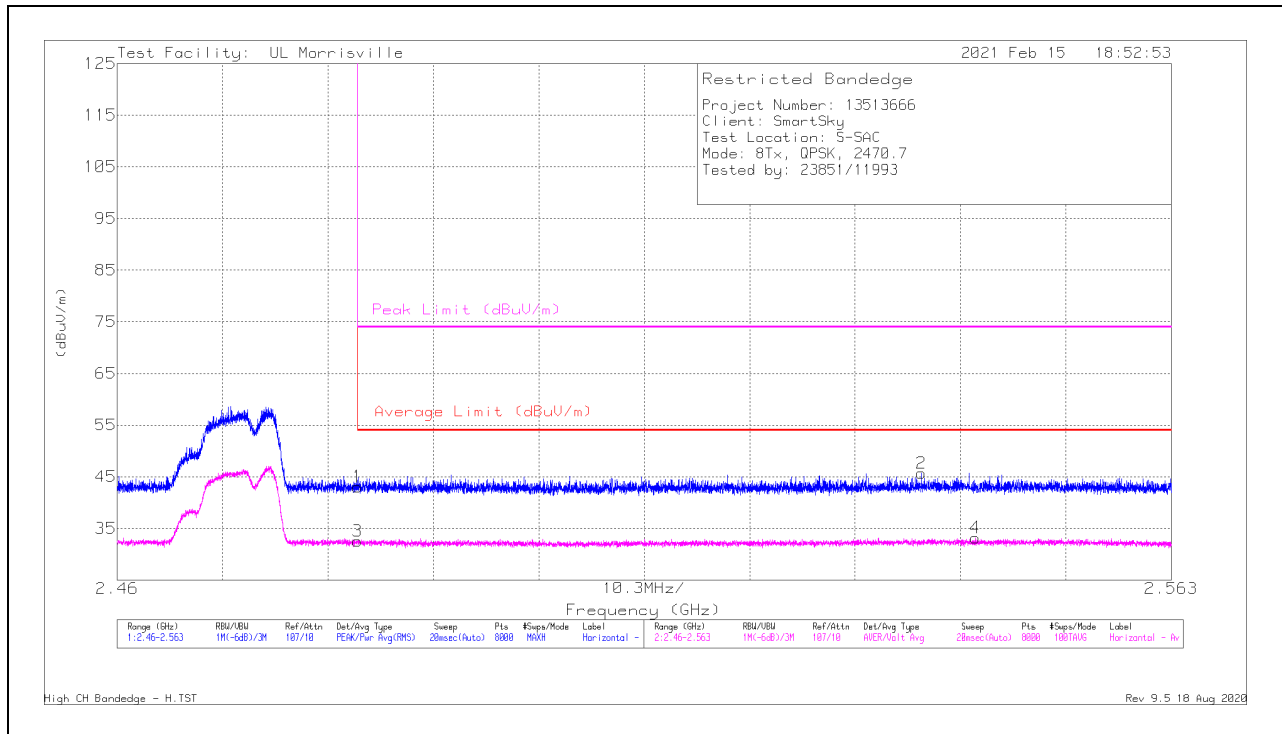


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38999	35.97	Pk	32.1	-24	0	44.07	-	-	74	-29.93	350	250
2	*** 2.36872	37.12	Pk	32.2	-23.8	0	45.52	-	-	74	-28.48	350	250
3	*** 2.38999	23.74	ADV	32.1	-24	1.39	33.23	54	-20.77	-	-	350	250
4	*** 2.35937	24.76	ADV	32.2	-23.8	1.39	34.55	54	-19.45	-	-	350	250

\* - 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)**

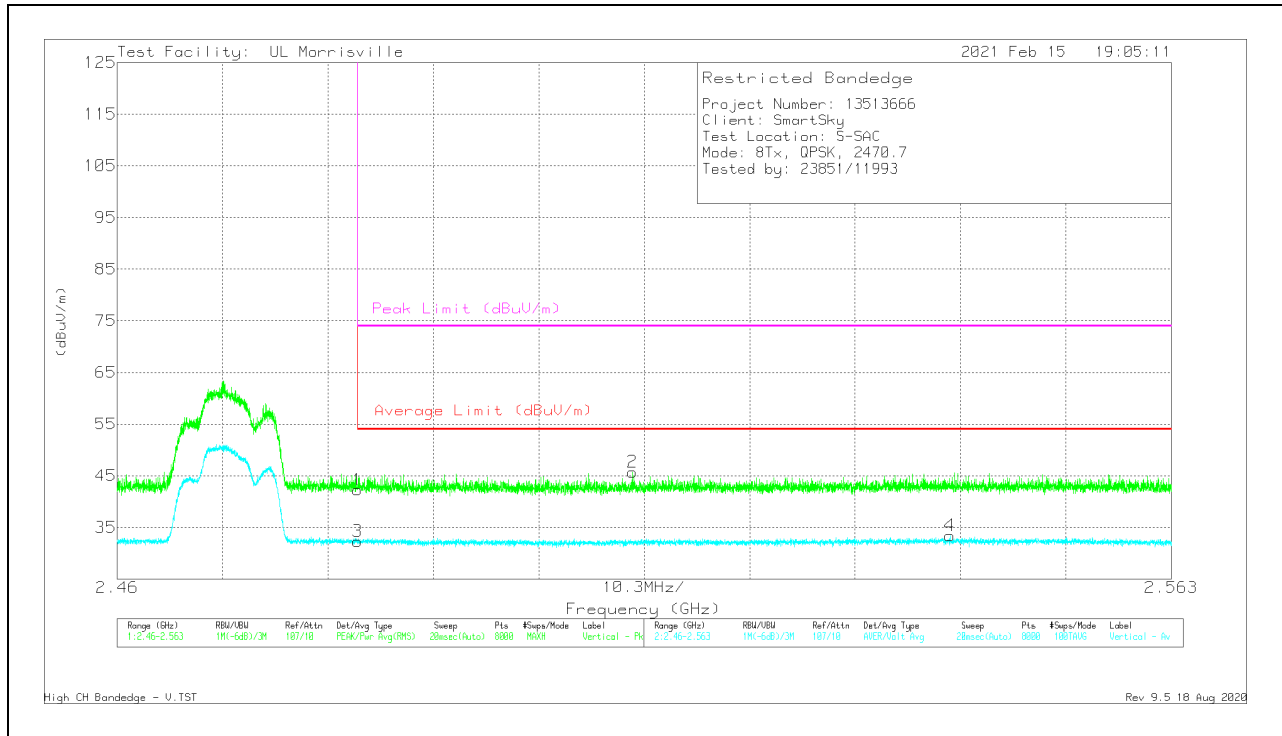
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cb/Fitr/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	35.05	Pk	32.4	-24.4	0	43.05	-	-	74	-30.95	329	110
2	** 2.53856	37.87	Pk	32.6	-24.8	0	45.67	-	-	74	-28.33	329	110
3	*** 2.4835	24.51	ADV	32.4	-24.4	1.39	33.9	54	-20.1	-	-	329	110
4	** 2.54386	25.45	ADV	32.6	-24.9	1.39	34.54	54	-19.46	-	-	329	110

\* - 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



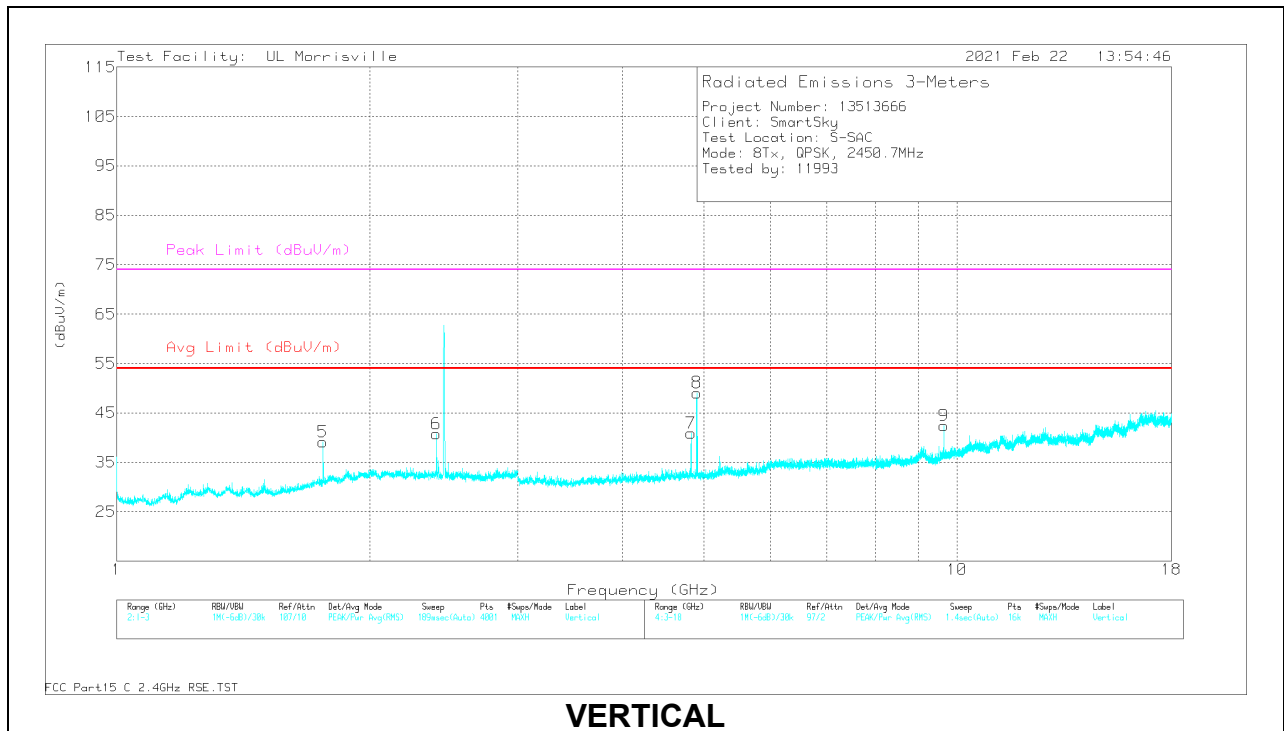
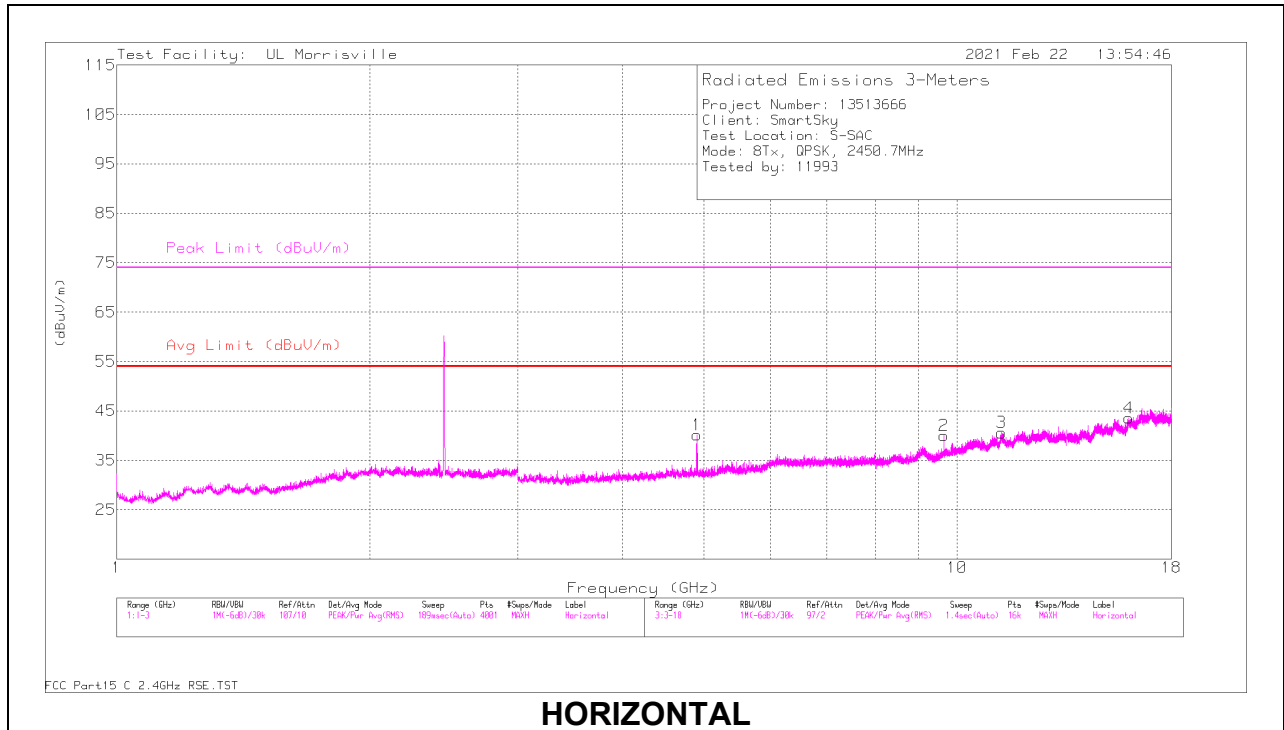
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	34.26	Pk	32.4	-24.4	0	42.26	-	-	74	-31.74	5	113
2	** 2.51034	37.93	Pk	32.4	-24.6	0	45.73	-	-	74	-28.27	5	113
3	*** 2.4835	24.31	ADV	32.4	-24.4	1.39	33.7	54	-20.3	-	-	5	113
4	** 2.54137	25.62	ADV	32.6	-24.8	1.39	34.81	54	-19.19	-	-	5	113

\* - 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 RESULTS

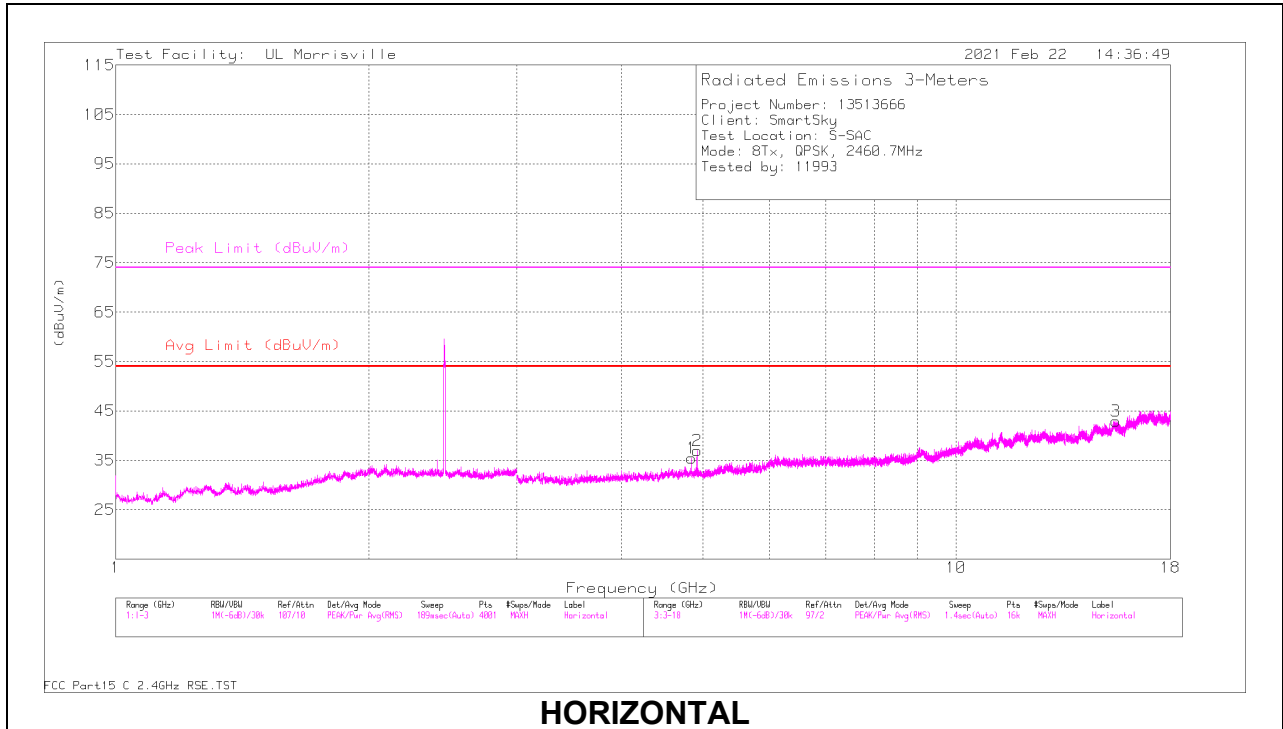


**RADIATED EMISSIONS**

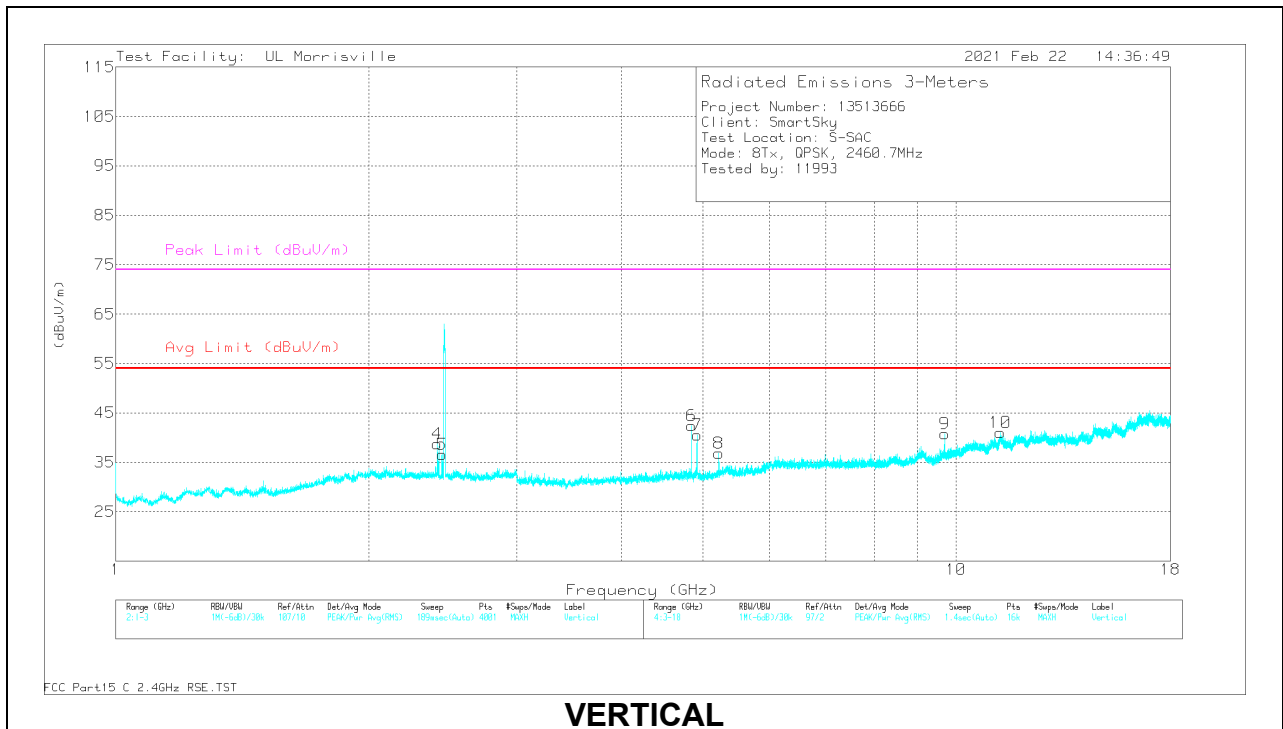
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	** 1.75799	33.53	PK2	29.9	-22.2	0	41.23	-	-	74	-32.77	36	146
	** 1.75845	20.55	ADV	29.9	-22.2	1.39	29.64	54	-24.36	-	-	36	146
1	*** 4.90146	45.11	PK2	33.9	-31	0	48.01	-	-	74	-25.99	198	115
	*** 4.90141	38.58	ADV	33.9	-31	1.39	42.87	54	-11.13	-	-	198	115
3	*** 11.29971	34.85	PK2	38.1	-23.1	0	49.85	-	-	74	-24.15	164	368
	*** 11.29889	22.48	ADV	38.1	-23.1	1.39	38.87	54	-15.13	-	-	164	368
4	*** 16.01762	35.72	PK2	40.5	-23.8	0	52.42	-	-	74	-21.58	331	106
	*** 16.01721	23.18	ADV	40.5	-23.8	1.39	41.27	54	-12.73	-	-	331	106
7	*** 4.82569	43.98	PK2	34	-30.8	0	47.18	-	-	74	-26.82	38	215
	*** 4.82563	37.93	ADV	34	-30.8	1.39	42.52	54	-11.48	-	-	38	215
8	*** 4.90137	47.23	PK2	33.9	-31	0	50.13	-	-	74	-23.87	204	167
	*** 4.90141	43.62	ADV	33.9	-31	1.39	47.91	54	-6.09	-	-	204	167
6	2.402	32.75	Pk	32.1	-24.1	0	40.75	-	-	-	-	0-360	101
9	9.65063	31.8	Pk	36.6	-26	0	42.4	-	-	-	-	0-360	101
2	9.65156	29.46	Pk	36.6	-26	0	40.06	-	-	-	-	0-360	101

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



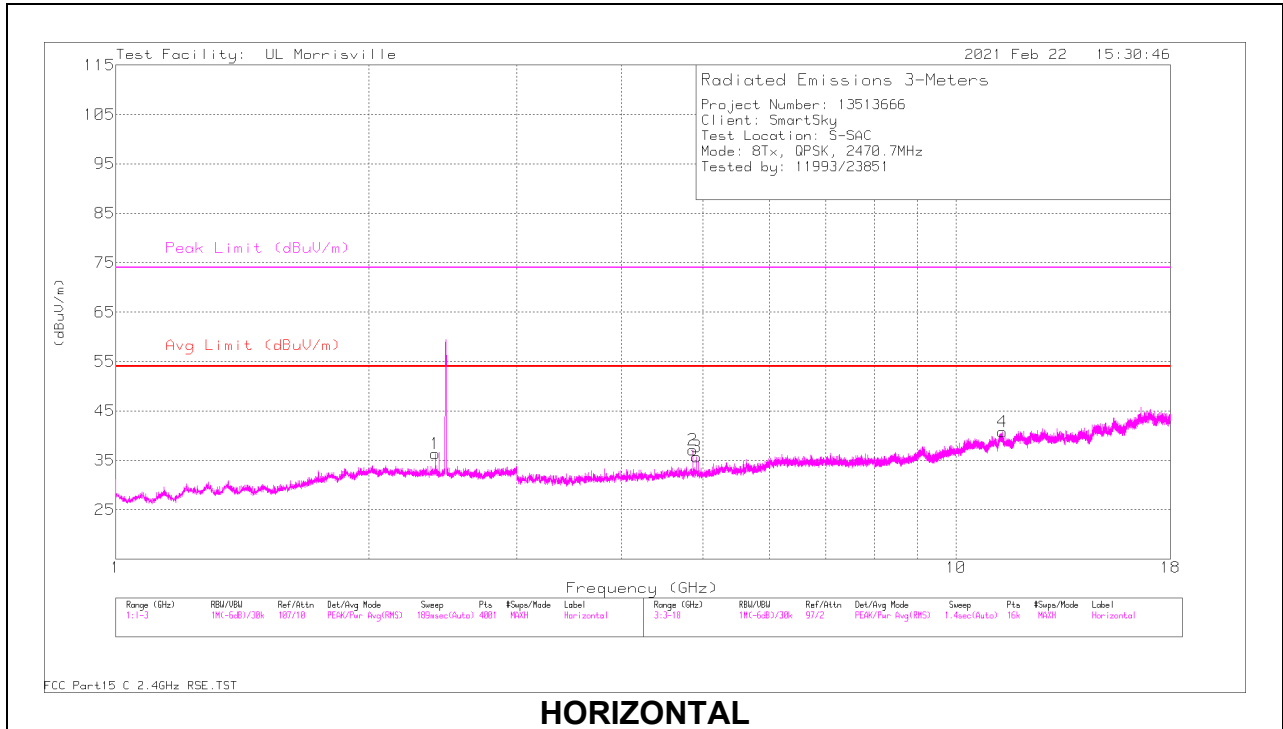
**VERTICAL**

**RADIATED EMISSIONS**

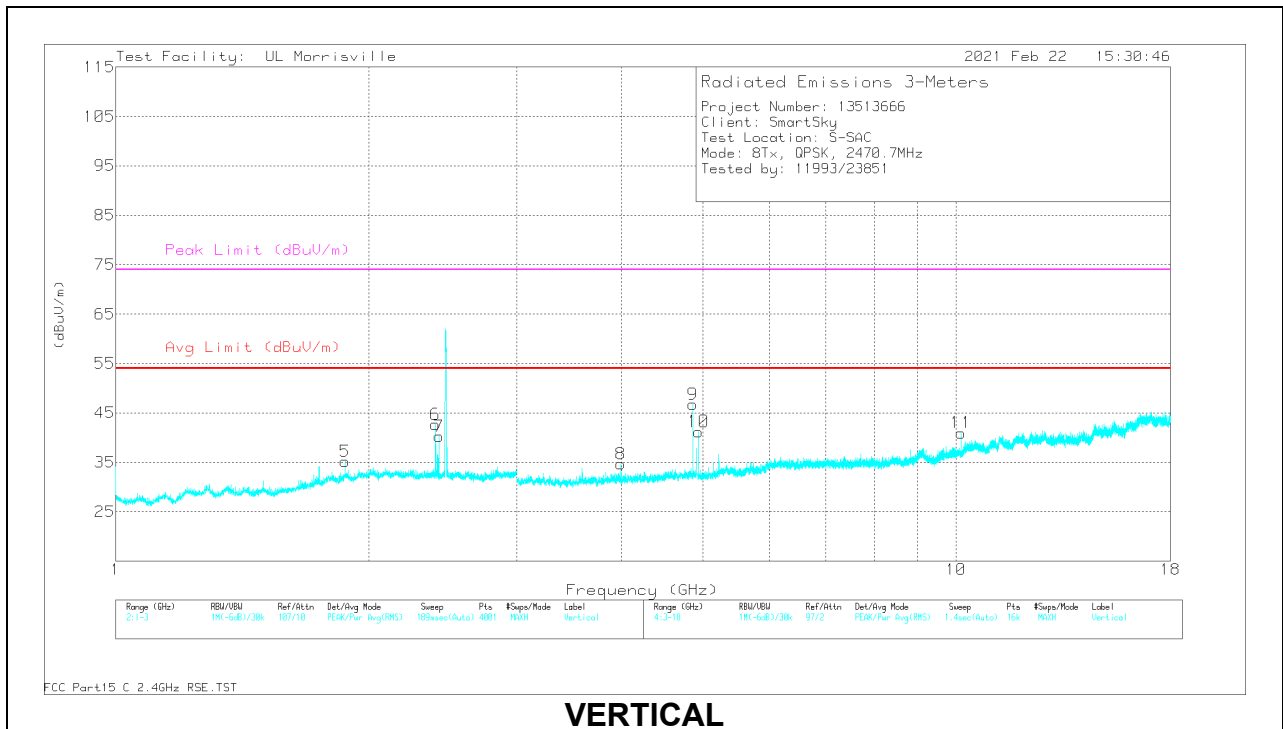
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.84549	40.86	PK2	34	-31	0	43.86	-	-	74	-30.14	328	139
	*** 4.84561	30.85	ADV	34	-31	1.39	35.24	54	-18.76	-	-	328	139
2	*** 4.92168	42.6	PK2	33.9	-30.9	0	45.6	-	-	74	-28.4	168	102
	*** 4.92141	32.17	ADV	33.9	-30.9	1.39	36.56	54	-17.44	-	-	168	102
3	*** 15.50922	35.3	PK2	40.3	-23.9	0	51.7	-	-	74	-22.3	154	242
	*** 15.51056	22.49	ADV	40.3	-23.9	1.39	40.28	54	-13.72	-	-	154	242
6	*** 4.84566	44.9	PK2	34	-31	0	47.9	-	-	74	-26.1	51	219
	*** 4.84562	39.66	ADV	34	-31	1.39	44.05	54	-9.95	-	-	51	219
7	*** 4.92168	47.42	PK2	33.9	-30.9	0	50.42	-	-	74	-23.58	37	200
	*** 4.92131	33.55	ADV	33.9	-30.9	1.39	37.94	54	-16.06	-	-	37	200
8	** 5.22242	43.08	PK2	34.3	-30.7	0	46.68	-	-	74	-27.32	340	191
	** 5.22229	33.78	ADV	34.3	-30.7	1.39	38.77	54	-15.23	-	-	340	191
10	*** 11.29169	34.95	PK2	38.1	-23.3	0	49.75	-	-	74	-24.25	42	335
	*** 11.29334	22.21	ADV	38.1	-23.2	1.39	38.5	54	-15.5	-	-	42	335
4	2.412	30.7	Pk	32.2	-24.1	0	38.8	-	-	-	-	0-360	199
5	2.4445	28.27	Pk	32.5	-24.2	0	36.57	-	-	-	-	0-360	101
9	9.69094	29.93	Pk	36.7	-25.8	0	40.83	-	-	-	-	0-360	101

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

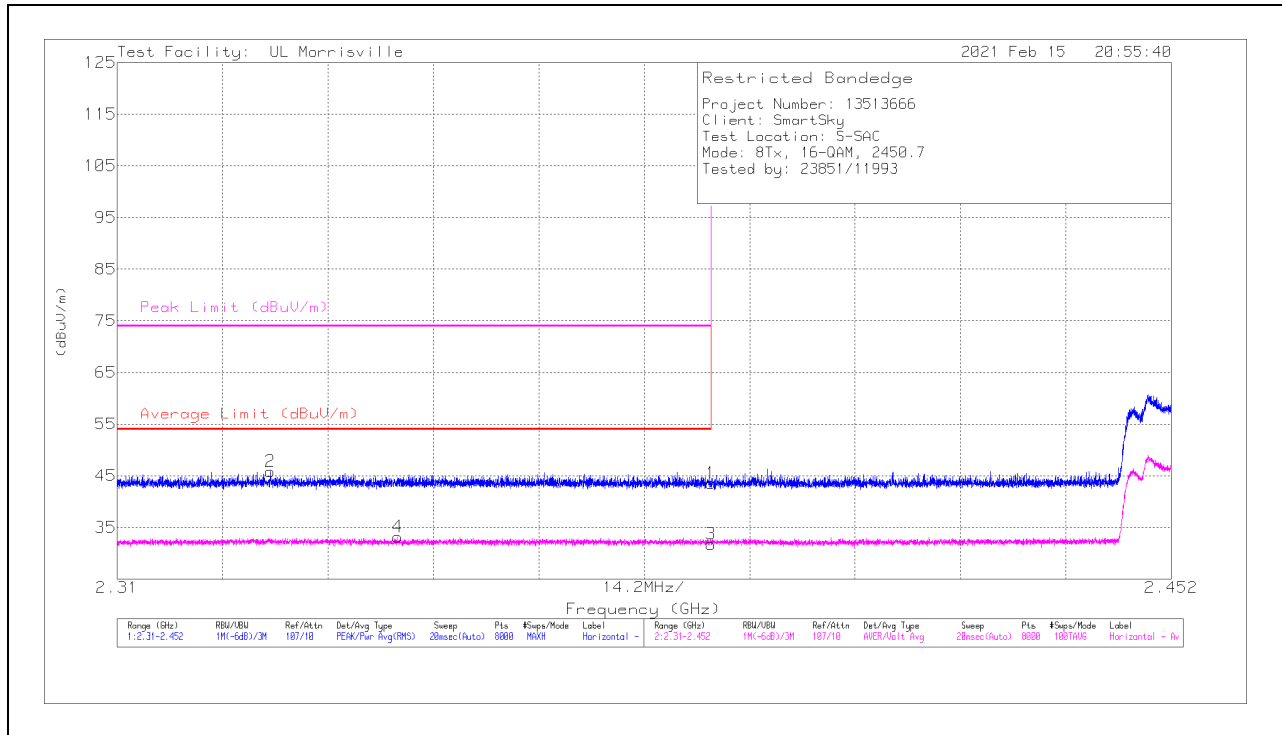
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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
5	** 1.87656	34.73	PK2	31	-22.4	0	43.33	-	-	74	-30.67	203	206
	** 1.87533	23.05	ADV	31	-22.3	1.39	33.14	54	-20.86	-	-	203	206
2	*** 4.86568	42.09	PK2	34	-30.9	0	45.19	-	-	74	-28.81	173	141
	*** 4.86558	34.57	ADV	34	-30.9	1.39	39.06	54	-14.94	-	-	173	141
3	*** 4.91508	43.31	PK2	33.9	-30.9	0	46.31	-	-	74	-27.69	287	110
	*** 4.91525	32.3	ADV	33.9	-30.9	1.39	36.69	54	-17.31	-	-	287	110
4	*** 11.35248	34.88	PK2	38.1	-23.3	0	49.68	-	-	74	-24.32	79	376
	*** 11.35568	21.91	ADV	38.1	-23.3	1.39	38.1	54	-15.9	-	-	79	376
8	*** 3.99328	41.36	PK2	33.4	-31.7	0	43.06	-	-	74	-30.94	308	136
	*** 3.99355	30.69	ADV	33.4	-31.7	1.39	33.78	54	-20.22	-	-	308	136
9	*** 4.86557	48.3	PK2	34	-30.9	0	51.4	-	-	74	-22.6	52	205
	*** 4.86561	45.13	ADV	34	-30.9	1.39	49.62	54	-4.38	-	-	52	205
10	*** 4.94146	43.3	PK2	33.9	-30.8	0	46.4	-	-	74	-27.6	49	119
	*** 4.94134	36.09	ADV	33.9	-30.8	1.39	40.58	54	-13.42	-	-	49	119
1	2.402	28.36	Pk	32.1	-24.1	0	36.36	-	-	-	-	0-360	200
6	2.4025	34.66	Pk	32.1	-24.1	0	42.66	-	-	-	-	0-360	200
7	2.426	32.12	Pk	32.3	-24.1	0	40.32	-	-	-	-	0-360	101
11	10.13719	29.17	Pk	37.3	-25.5	0	40.97	-	-	-	-	0-360	101

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### 12.3.4. TX ABOVE 1 GHz 9 MHz, 16-QAM MODE IN THE 2.4 GHz BAND BANDEDGE (LOW CHANNEL)

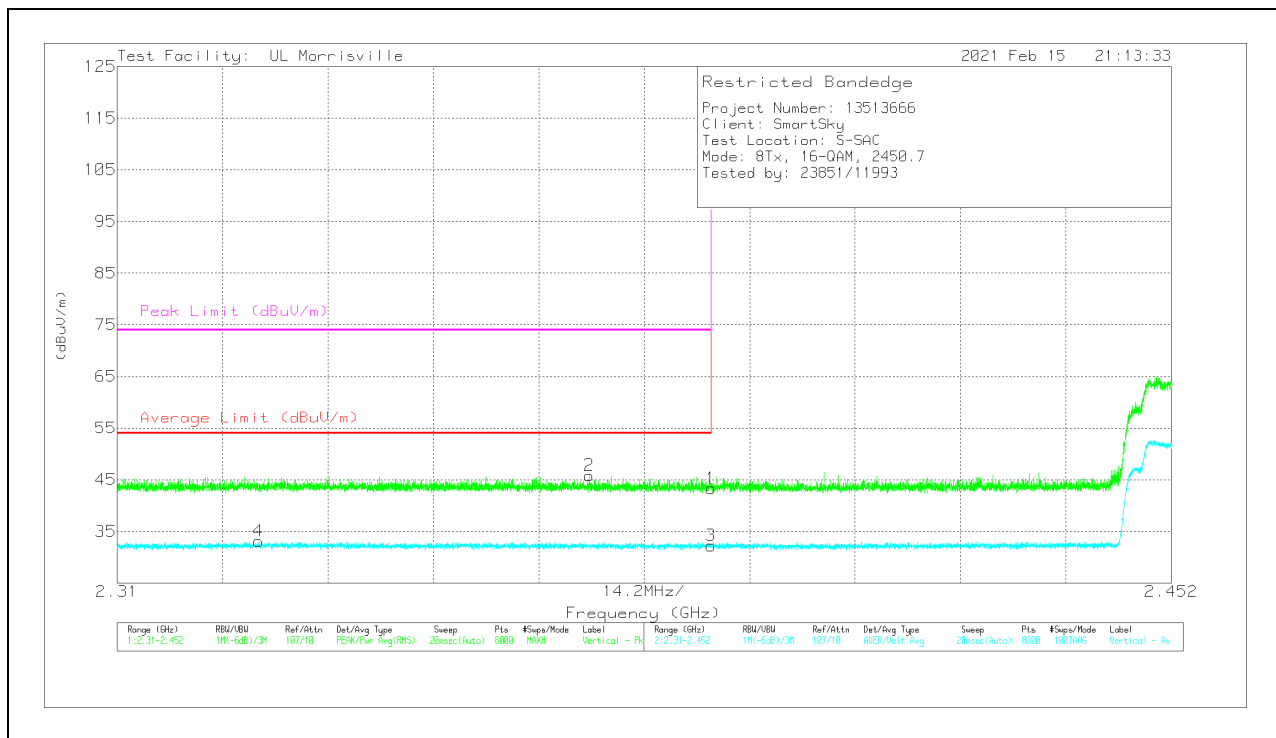
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 2.38999	35.47	Pk	32.1	-24	0	43.57	-	-	74	-30.43	104	103
2	*** 2.33063	37.42	Pk	32.1	-23.7	0	45.82	-	-	74	-28.18	104	103
3	*** 2.38999	23.65	ADV	32.1	-24	1.39	33.14	54	-20.86	-	-	104	103
4	*** 2.34778	24.86	ADV	32.2	-23.9	1.39	34.55	54	-19.45	-	-	104	103

\* - 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



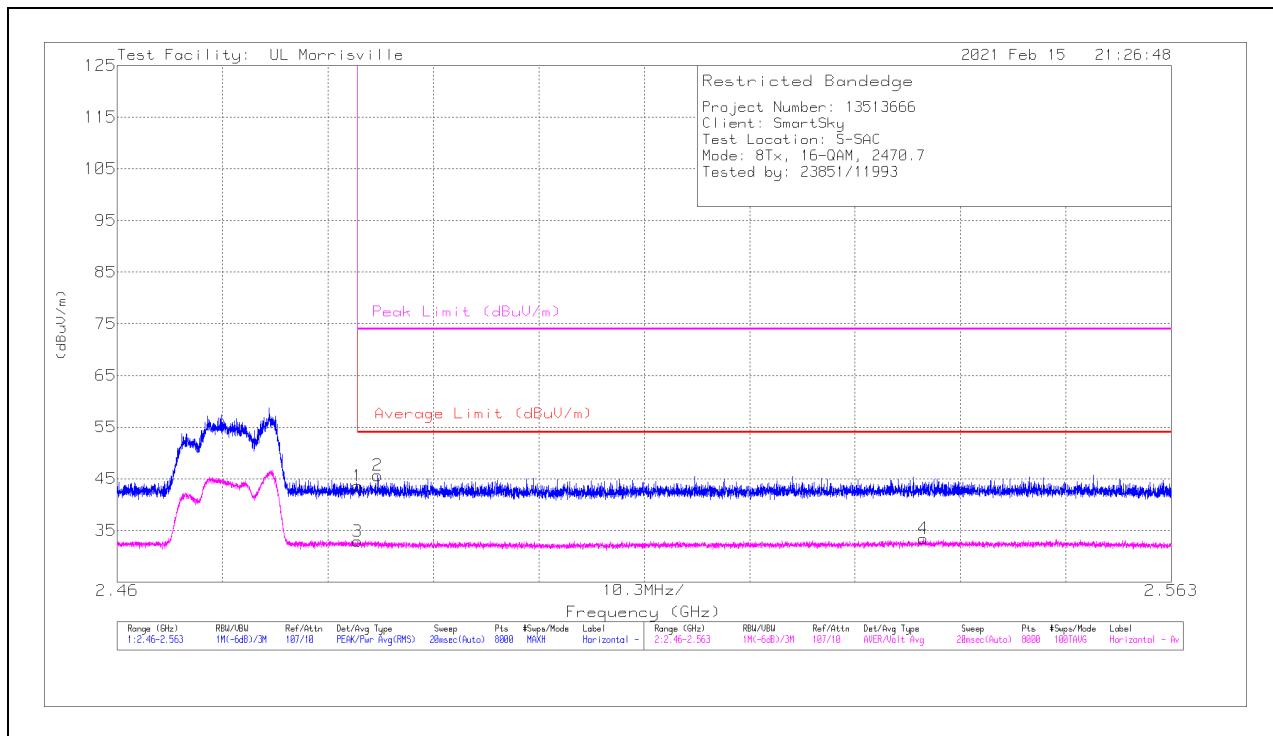
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38999	35.23	Pk	32.1	-24	0	43.33	-	-	74	-30.67	17	152
2	*** 2.37361	37.53	Pk	32.2	-23.9	0	45.83	-	-	74	-28.17	17	152
3	*** 2.38999	24.14	ADV	32.1	-24	1.39	33.63	54	-20.37	-	-	17	152
4	*** 2.32905	24.69	ADV	32.1	-23.7	1.39	34.48	54	-19.52	-	-	17	152

\* - 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)**

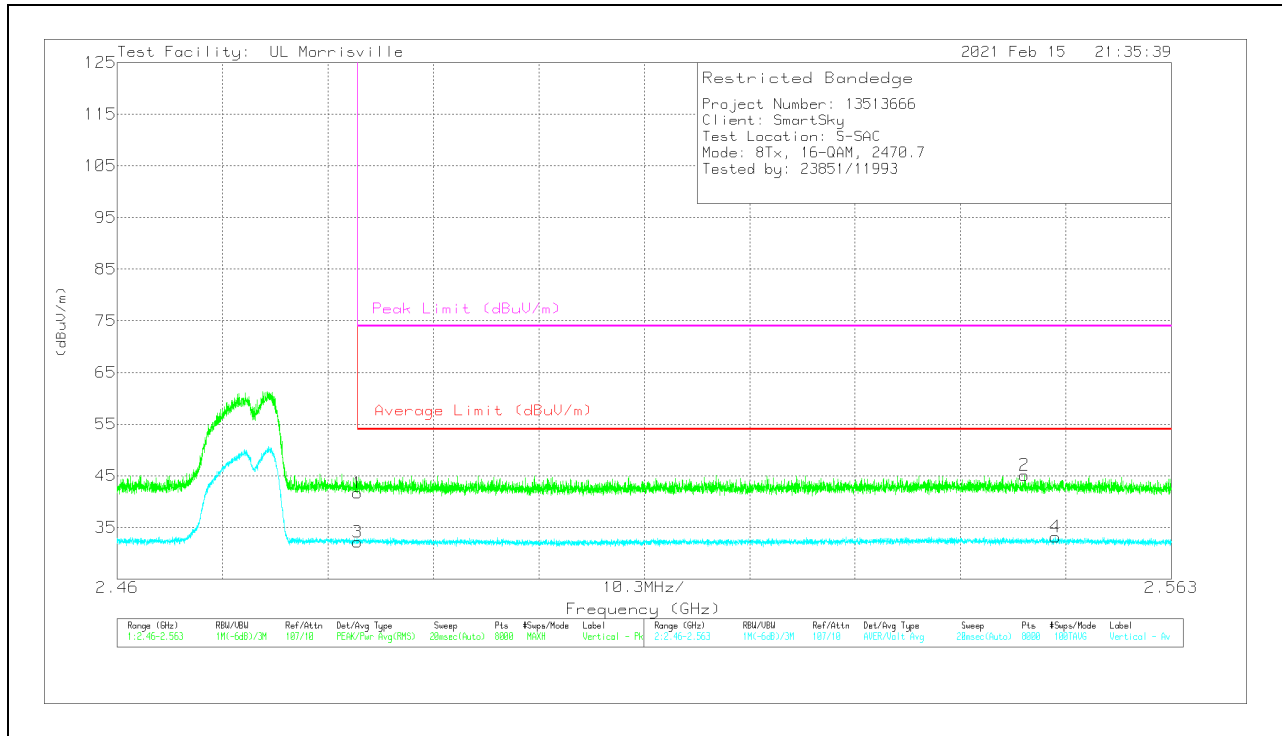
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cb/Fitr/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	35.62	Pk	32.4	-24.4	0	43.62	-	-	74	-30.38	250	129
2	*** 2.48547	37.74	Pk	32.4	-24.5	0	45.64	-	-	74	-28.36	250	129
3	*** 2.4835	24.87	ADV	32.4	-24.4	1.39	34.26	54	-19.74	-	-	250	129
4	** 2.53876	25.61	ADV	32.6	-24.8	1.39	34.8	54	-19.2	-	-	250	129

\* - 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

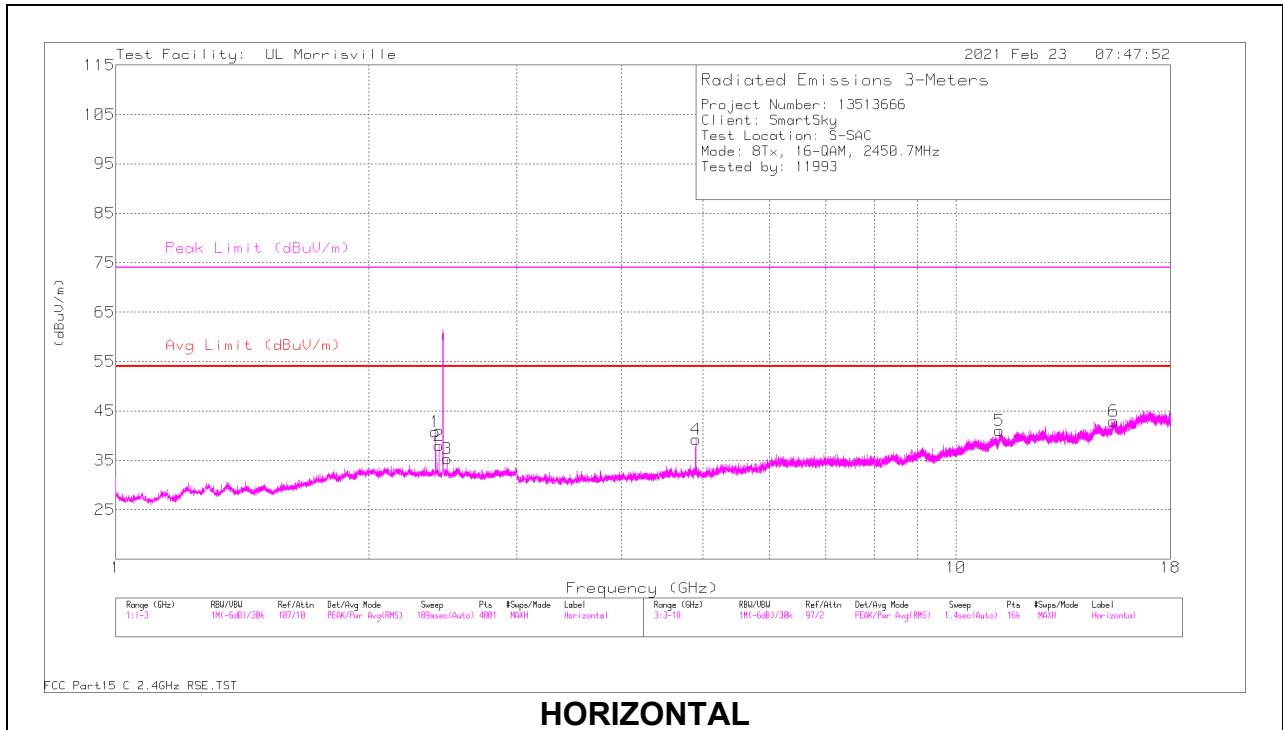


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	33.64	Pk	32.4	-24.4	0	41.64	-	-	74	-32.36	317	132
2	** 2.54862	37.31	Pk	32.7	-24.9	0	45.11	-	-	74	-28.89	317	132
3	*** 2.4835	24.14	ADV	32.4	-24.4	1.39	33.53	54	-20.47	-	-	317	132
4	** 2.55167	25.36	ADV	32.7	-24.9	1.39	34.55	54	-19.45	-	-	317	132

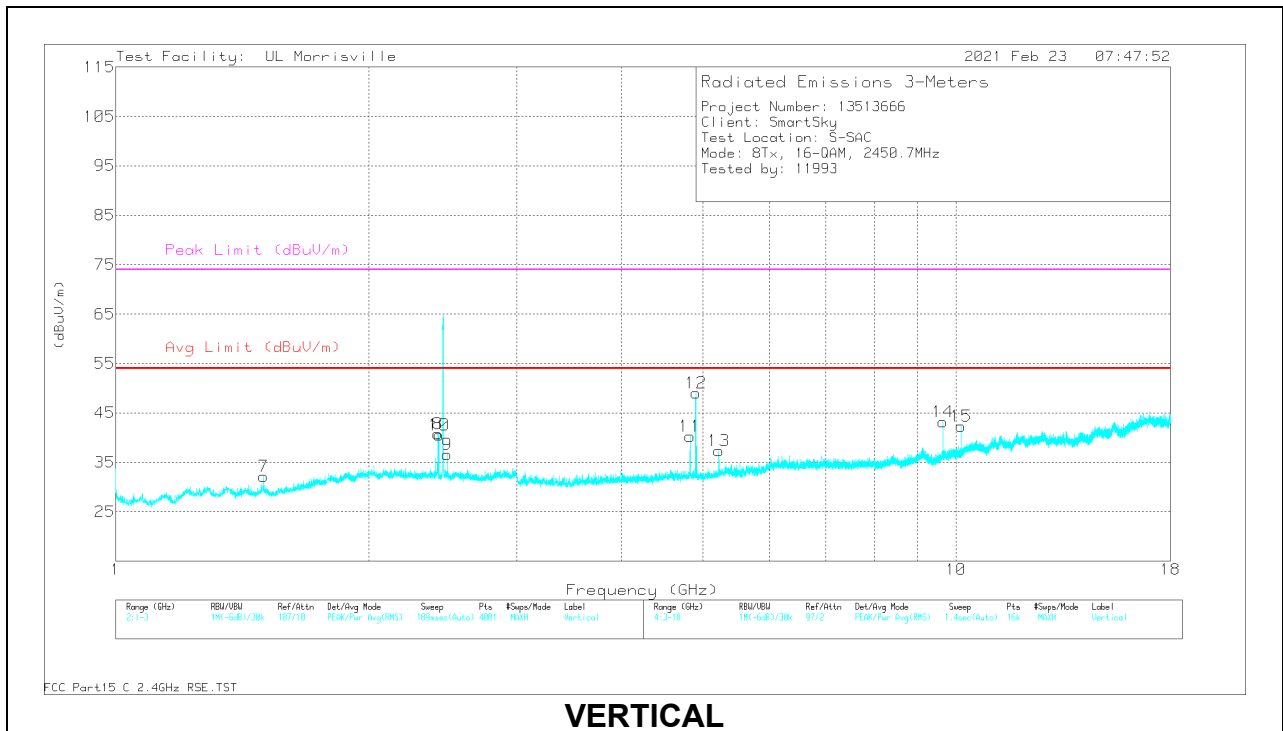
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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
7	*** 1.50004	34.1	PK2	28	-22.4	0	39.7	-	-	74	-34.3	201	237
	*** 1.50006	23.3	ADV	28	-22.4	1.39	30.29	54	-23.71	-	-	201	237
4	*** 4.89961	47.54	PK2	33.9	-31	0	50.44	-	-	74	-23.56	210	117
	*** 4.90134	31.79	ADV	33.9	-31	1.39	36.08	54	-17.92	-	-	210	117
5	*** 11.25548	34.88	PK2	38.1	-23.4	0	49.58	-	-	74	-24.42	6	216
	*** 11.25681	22.13	ADV	38.1	-23.4	1.39	38.22	54	-15.78	-	-	6	216
6	*** 15.40897	33.5	PK2	40.3	-21.9	0	51.9	-	-	74	-22.1	206	273
	*** 15.4058	21.17	ADV	40.3	-22	1.39	40.86	54	-13.14	-	-	206	273
11	*** 4.8258	42.03	PK2	34	-30.8	0	45.23	-	-	74	-28.77	229	102
	*** 4.82565	33.48	ADV	34	-30.8	1.39	38.07	54	-15.93	-	-	229	102
12	*** 4.90153	50.24	PK2	33.9	-31	0	53.14	-	-	74	-20.86	215	103
	*** 4.90137	46.51	ADV	33.9	-31	1.39	50.8	54	-3.2	-	-	215	103
13	** 5.22242	43.42	PK2	34.3	-30.7	0	47.02	-	-	74	-26.98	341	185
	** 5.22241	34.55	ADV	34.3	-30.7	1.39	39.54	54	-14.46	-	-	341	185
1	2.402	32.75	Pk	32.1	-24.1	0	40.75	-	-	-	-	0-360	200
8	2.419	32.54	Pk	32.3	-24.1	0	40.74	-	-	-	-	0-360	200
2	2.426	29.76	Pk	32.3	-24.1	0	37.96	-	-	-	-	0-360	200
10	2.426	32.37	Pk	32.3	-24.1	0	40.57	-	-	-	-	0-360	101
3	2.48	27.37	Pk	32.4	-24.4	0	35.37	-	-	-	-	0-360	200
9	2.48	28.59	Pk	32.4	-24.4	0	36.59	-	-	-	-	0-360	101
14	9.65063	32.57	Pk	36.6	-26	0	43.17	-	-	-	-	0-360	101
15	10.13719	30.47	Pk	37.3	-25.5	0	42.27	-	-	-	-	0-360	101

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

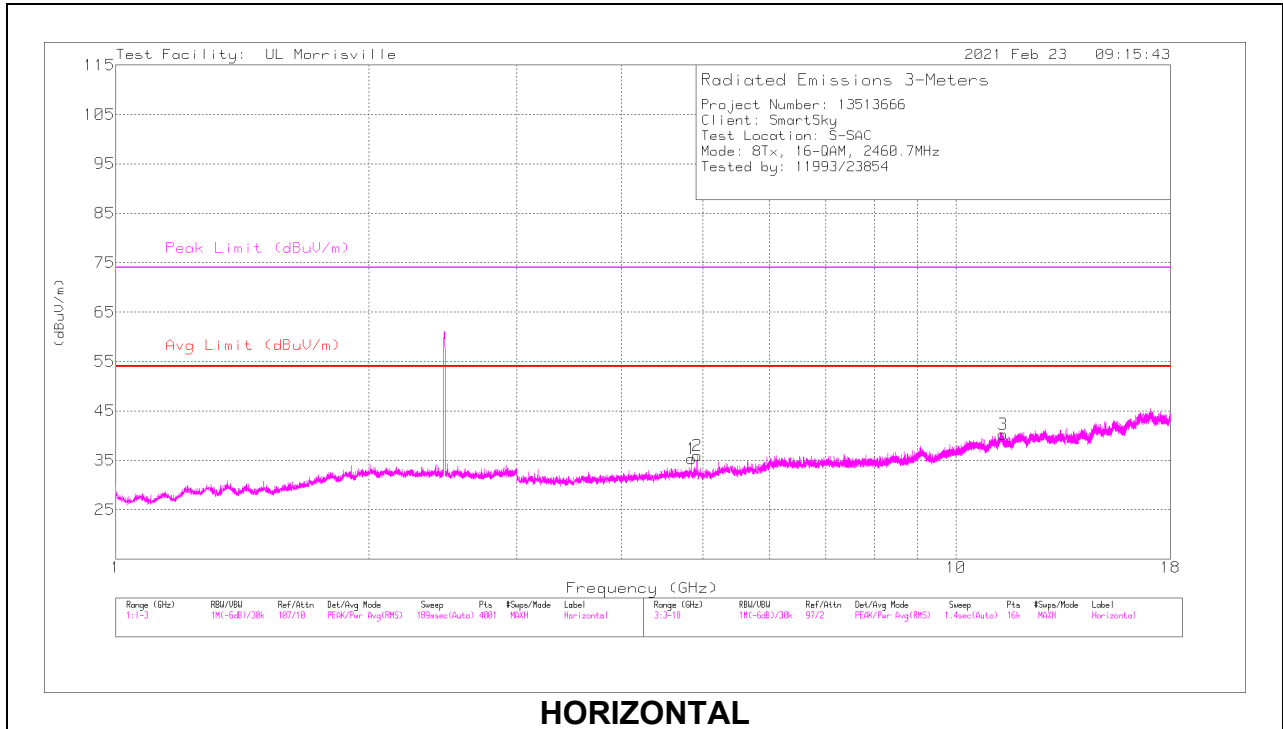
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

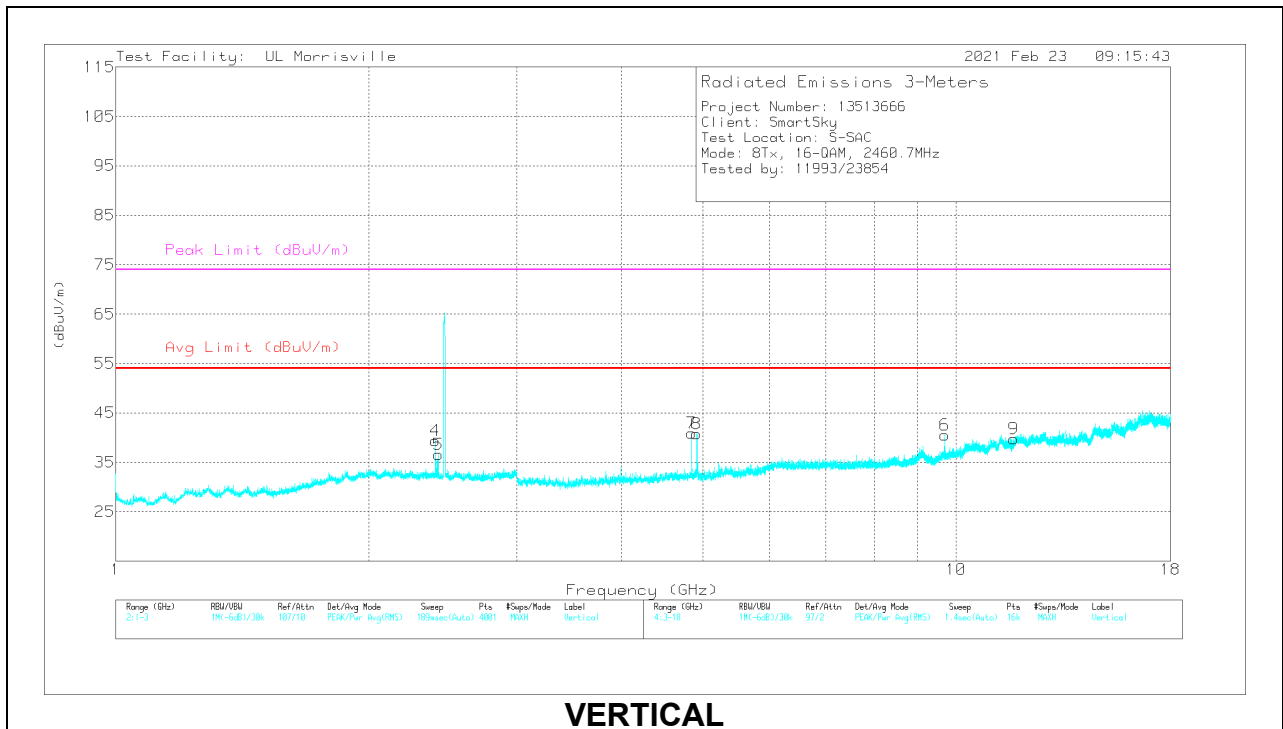
PK2 - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



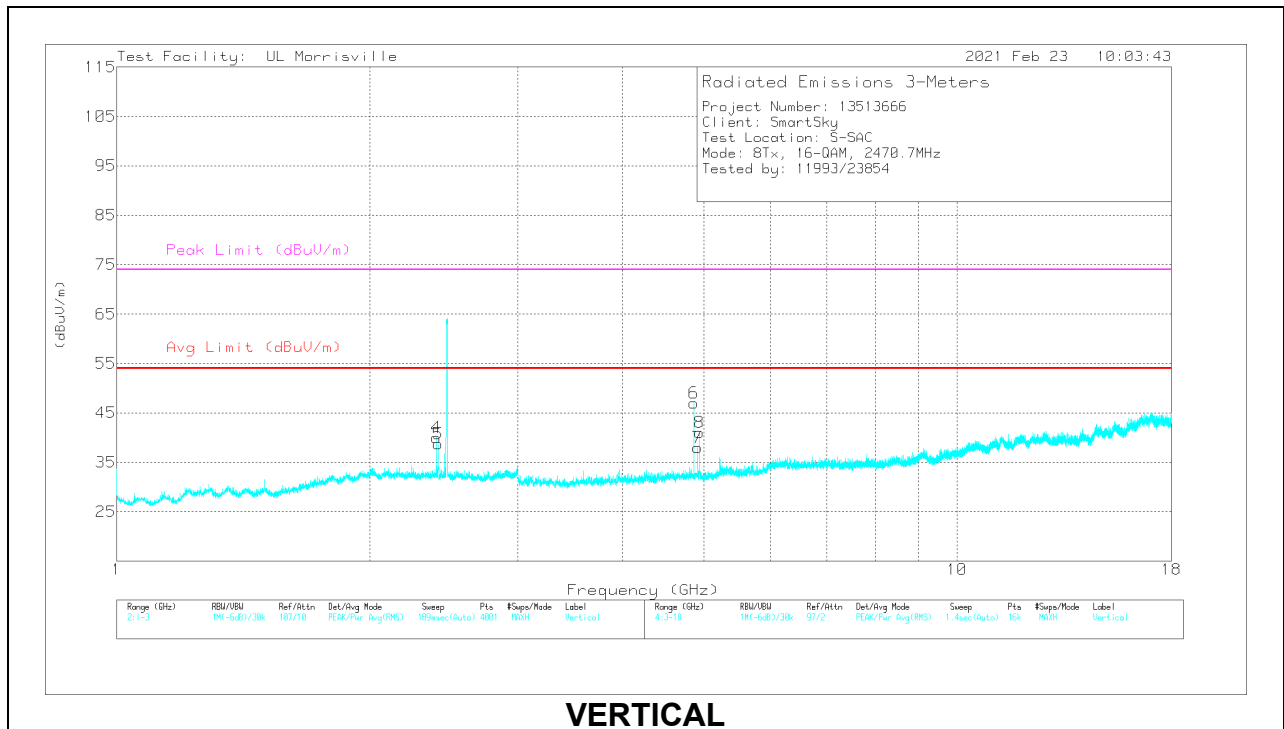
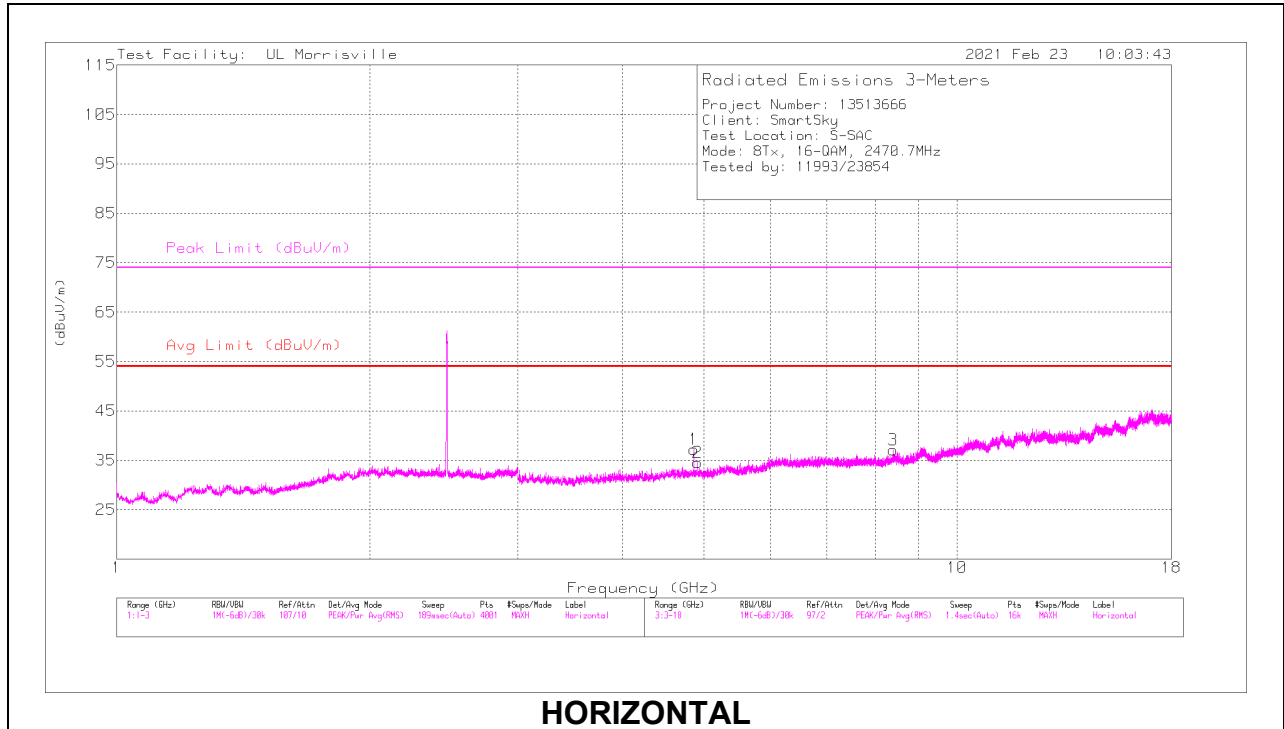
**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (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	*** 4.84554	40.85	PK2	34	-31	0	43.85	-	-	74	-30.15	328	112
	*** 4.84558	31.27	ADV	34	-31	1.39	35.66	54	-18.34	-	-	328	112
2	*** 4.91992	42.5	PK2	33.9	-30.9	0	45.5	-	-	74	-28.5	95	124
	*** 4.92129	27.76	ADV	33.9	-30.9	1.39	32.15	54	-21.85	-	-	95	124
3	*** 11.37148	34.35	PK2	38.1	-23.4	0	49.05	-	-	74	-24.95	326	243
	*** 11.36912	21.8	ADV	38.1	-23.3	1.39	37.99	54	-16.01	-	-	326	243
7	*** 4.84568	44.82	PK2	34	-31	0	47.82	-	-	74	-26.18	49	202
	*** 4.84555	38.8	ADV	34	-31	1.39	43.19	54	-10.81	-	-	49	202
8	*** 4.91378	45.95	PK2	33.9	-30.9	0	48.95	-	-	74	-25.05	43	103
	*** 4.91554	29.24	ADV	33.9	-30.9	1.39	33.63	54	-20.37	-	-	43	103
9	*** 11.71694	34.85	PK2	38.5	-24.1	0	49.25	-	-	74	-24.75	291	294
	*** 11.71792	22.14	ADV	38.5	-24.1	1.39	37.93	54	-16.07	-	-	291	294
4	2.4025	31.34	Pk	32.1	-24.1	0	39.34	-	-	-	-	0-360	101
5	2.42	28.36	Pk	32.3	-24.1	0	36.56	-	-	-	-	0-360	199
6	9.69094	29.66	Pk	36.7	-25.8	0	40.56	-	-	-	-	0-360	200

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Fitr/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	*** 4.86571	42.17	PK2	34	-30.9	0	45.27	-	-	74	-28.73	208	116
	*** 4.86563	34	ADV	34	-30.9	1.39	38.49	54	-15.51	-	-	208	116
2	*** 4.91475	42.3	PK2	33.9	-30.9	0	45.3	-	-	74	-28.7	330	110
	*** 4.91533	31.27	ADV	33.9	-30.9	1.39	35.66	54	-18.34	-	-	330	110
3	*** 8.40351	37.79	PK2	35.9	-27.2	0	46.49	-	-	74	-27.51	53	340
	*** 8.40312	24.5	ADV	35.9	-27.2	1.39	34.59	54	-19.41	-	-	53	340
6	*** 4.86561	47.53	PK2	34	-30.9	0	50.63	-	-	74	-23.37	50	202
	*** 4.86558	44.03	ADV	34	-30.9	1.39	48.52	54	-5.48	-	-	50	202
7	*** 4.91497	44.14	PK2	33.9	-30.9	0	47.14	-	-	74	-26.86	212	104
	*** 4.9152	34.97	ADV	33.9	-30.9	1.39	39.36	54	-14.64	-	-	212	104
8	*** 4.93974	46.86	PK2	33.9	-30.8	0	49.96	-	-	74	-24.04	55	205
	*** 4.94142	37.2	ADV	33.9	-30.8	1.39	41.69	54	-12.31	-	-	55	205
4	2.4015	31.99	Pk	32.1	-24.1	0	39.99	-	-	-	-	0-360	101
5	2.413	30.69	Pk	32.2	-24.1	0	38.79	-	-	-	-	0-360	101

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

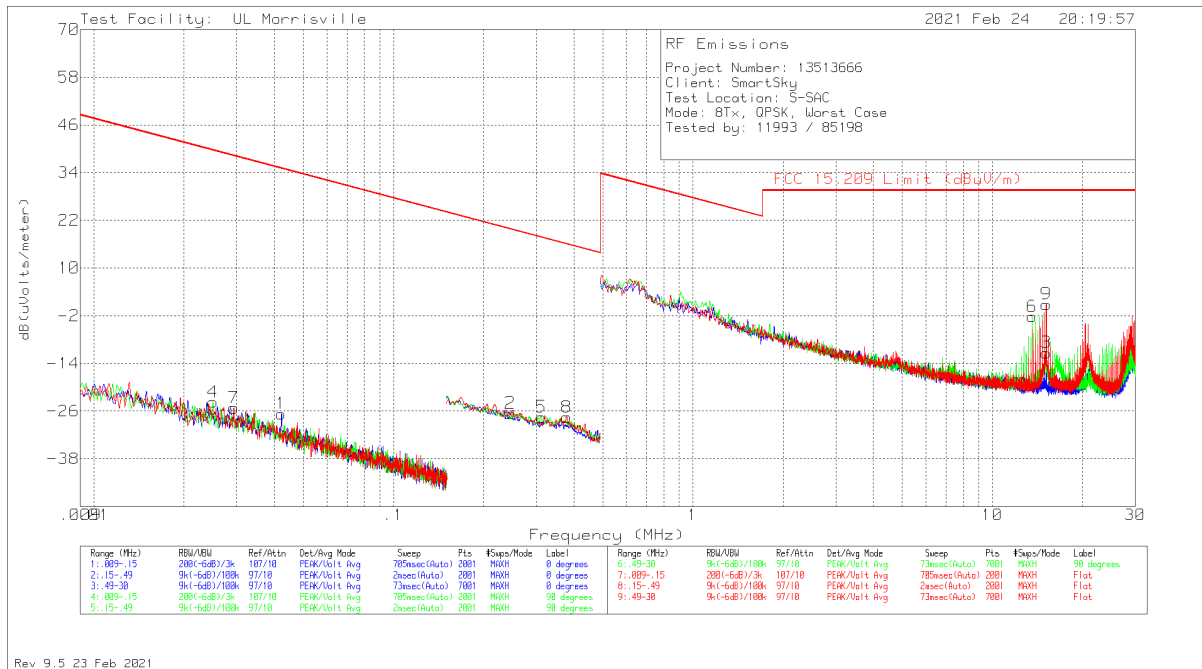


## 12.4. WORST-CASE BELOW 30MHz – 3RB CONFIGURATION

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).

### 12.4.1. WORST-CASE BANDWIDTH, 4.5 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)

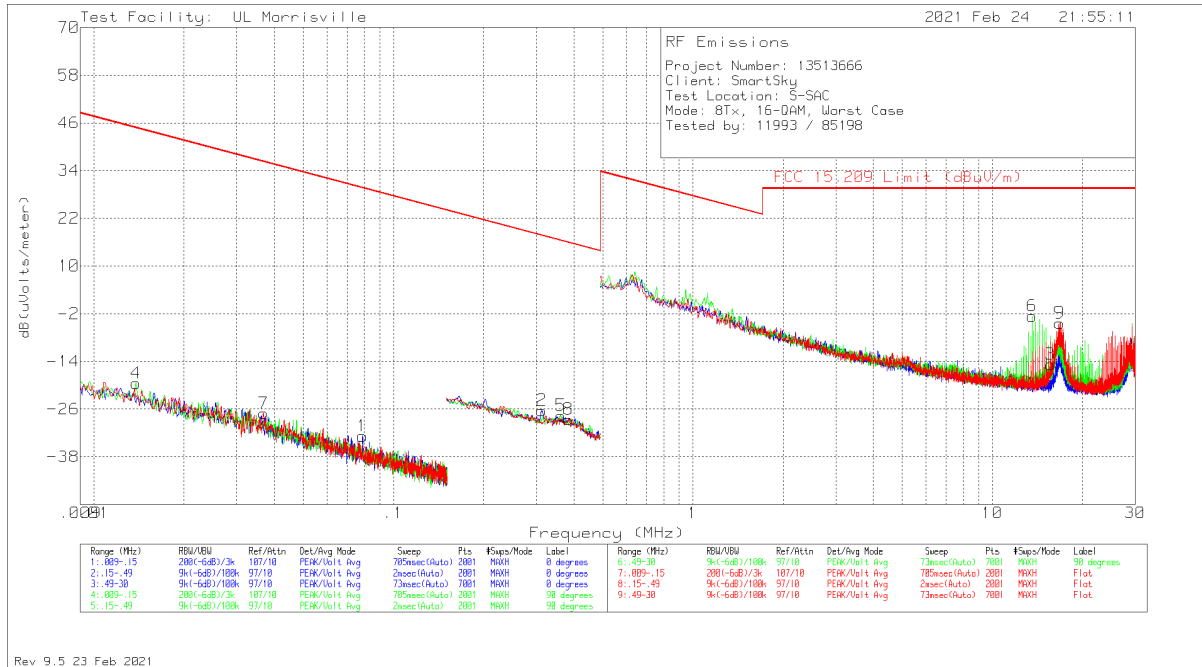


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
4	.02498	42.65	Pk	13.5	.1	-80	-23.75	39.65	-63.4	0-360	Off
7	.02931	41.41	Pk	13.3	.1	-80	-25.19	38.27	-63.46	0-360	Flat
1	.04223	41.15	Pk	12.1	.1	-80	-26.65	35.09	-61.74	0-360	On
2	.24554	42.56	Pk	10.8	.1	-80	-26.54	19.8	-46.34	0-360	On
5	.31201	41.69	Pk	10.7	.1	-80	-27.51	17.72	-45.23	0-360	Off
8	.37933	41.76	Pk	10.6	.1	-80	-27.54	16.02	-43.56	0-360	Flat
6	13.5596	26.7	Pk	10.4	.7	-40	-2.2	29.54	-31.74	0-360	Off
3	15.12795	17.5	Pk	10.4	.8	-40	-11.3	29.54	-40.84	0-360	On
9	15.13638	29.68	Pk	10.4	.8	-40	.88	29.54	-28.66	0-360	Flat

Pk - Peak detector

### 12.4.2. WORST-CASE BANDWIDTH, 4.5 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)

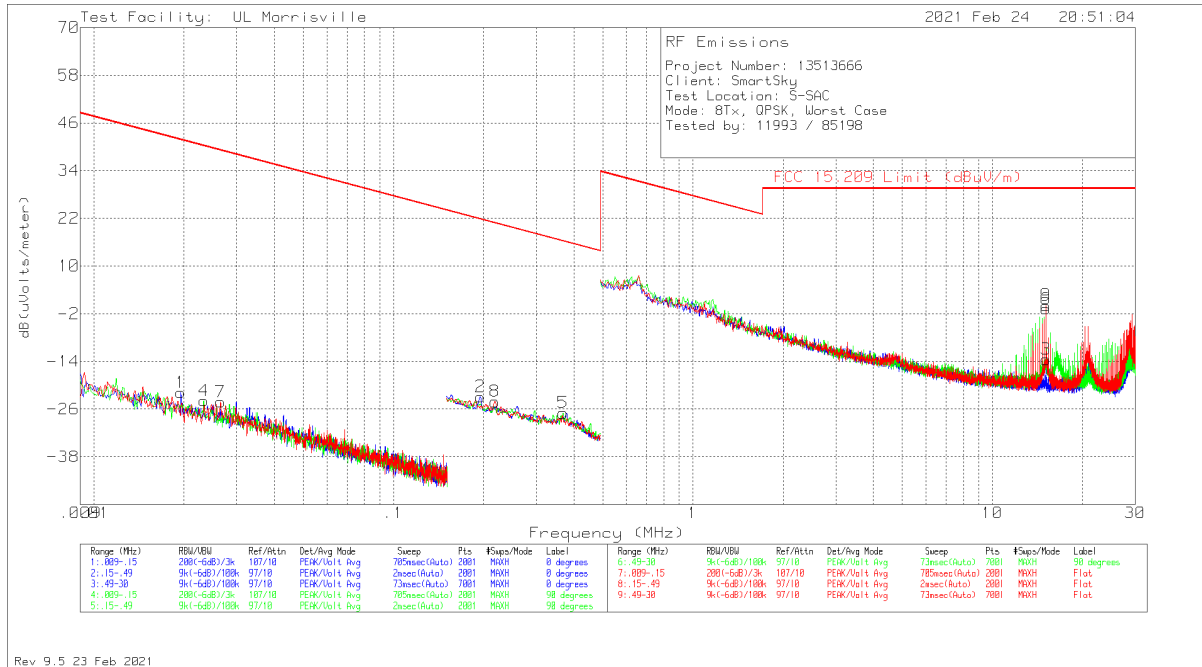


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
4	.01383	44.11	Pk	16.3	.1	-80	-19.49	44.79	-64.28	0-360	Off
7	.03683	40.26	Pk	12.6	.1	-80	-27.04	36.28	-63.32	0-360	Flat
1	.07886	35.99	Pk	11.1	.1	-80	-32.81	29.67	-62.48	0-360	On
2	.31278	42.85	Pk	10.7	.1	-80	-26.35	17.7	-44.05	0-360	On
5	.3625	41.63	Pk	10.6	.1	-80	-27.67	16.42	-44.09	0-360	Off
8	.38375	40.72	Pk	10.6	.1	-80	-28.58	15.92	-44.5	0-360	Flat
6	13.5596	26.32	Pk	10.4	.7	-40	-2.58	29.54	-32.12	0-360	Off
3	15.61701	14.13	Pk	10.3	.8	-40	-14.77	29.54	-44.31	0-360	On
9	16.75954	24.64	Pk	10.2	.8	-40	-4.36	29.54	-33.9	0-360	Flat

Pk - Peak detector

### 12.4.3. WORST-CASE BANDWIDTH, 9 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)

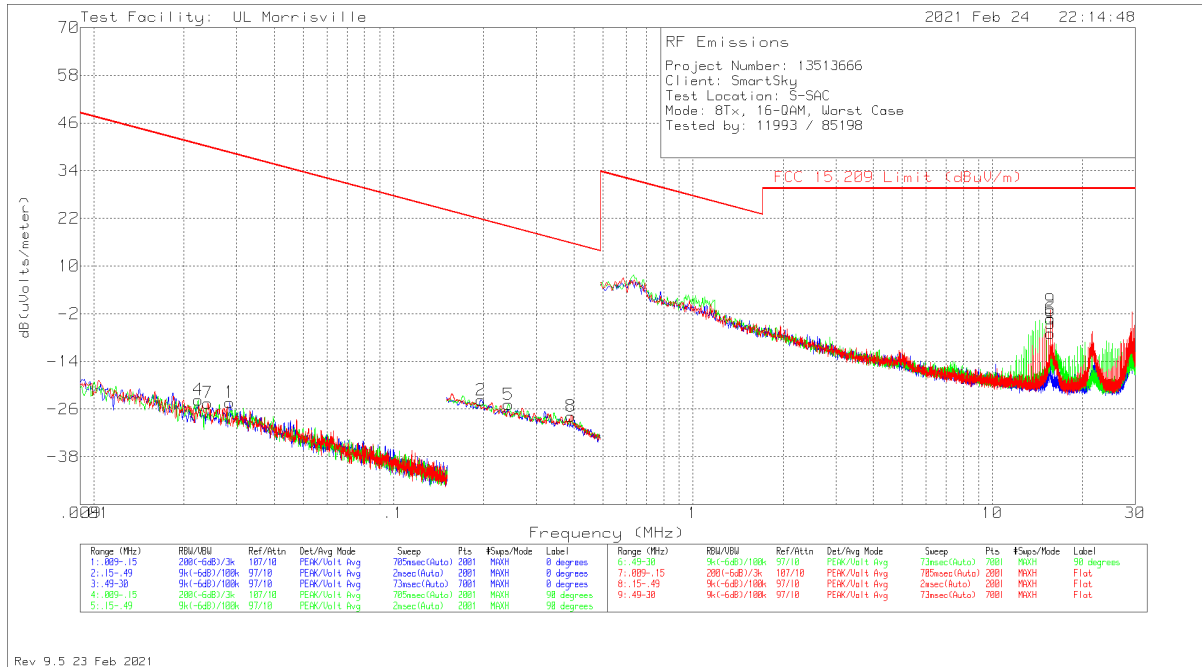


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01951	44.14	Pk	13.9	.1	-80	-21.86	41.8	-63.66	0-360	On
4	.02327	42.42	Pk	13.6	.1	-80	-23.88	40.27	-64.15	0-360	Off
7	.02647	42.27	Pk	13.4	.1	-80	-24.23	39.15	-63.38	0-360	Flat
2	.19488	46.21	Pk	10.8	.1	-80	-22.89	21.81	-44.7	0-360	On
8	.21834	44.99	Pk	10.8	.1	-80	-24.11	20.82	-44.93	0-360	Flat
5	.36837	42.34	Pk	10.6	.1	-80	-26.96	16.28	-43.24	0-360	Off
3	15.11952	15.3	Pk	10.4	.8	-40	-13.5	29.54	-43.04	0-360	On
6	15.12374	28	Pk	10.4	.8	-40	-.8	29.54	-30.34	0-360	Off
9	15.12374	28.86	Pk	10.4	.8	-40	.06	29.54	-29.48	0-360	Flat

Pk - Peak detector

### 12.4.4. WORST-CASE BANDWIDTH, 9 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
4	.02228	42.64	Pk	13.6	.1	-80	-23.66	40.65	-64.31	0-360	Off
7	.02398	41.97	Pk	13.5	.1	-80	-24.43	40.01	-64.44	0-360	Flat
1	.02838	42.19	Pk	13.4	.1	-80	-24.31	38.54	-62.85	0-360	On
2	.19616	45.38	Pk	10.8	.1	-80	-23.72	21.75	-45.47	0-360	On
5	.24214	44.26	Pk	10.8	.1	-80	-24.84	19.92	-44.76	0-360	Off
8	.39208	41.5	Pk	10.6	.1	-80	-27.8	15.74	-43.54	0-360	Flat
6	15.60436	25.67	Pk	10.3	.8	-40	-3.23	29.54	-32.77	0-360	Off
9	15.60436	27.76	Pk	10.3	.8	-40	-1.14	29.54	-30.68	0-360	Flat
3	15.60858	21.93	Pk	10.3	.8	-40	-6.97	29.54	-36.51	0-360	On

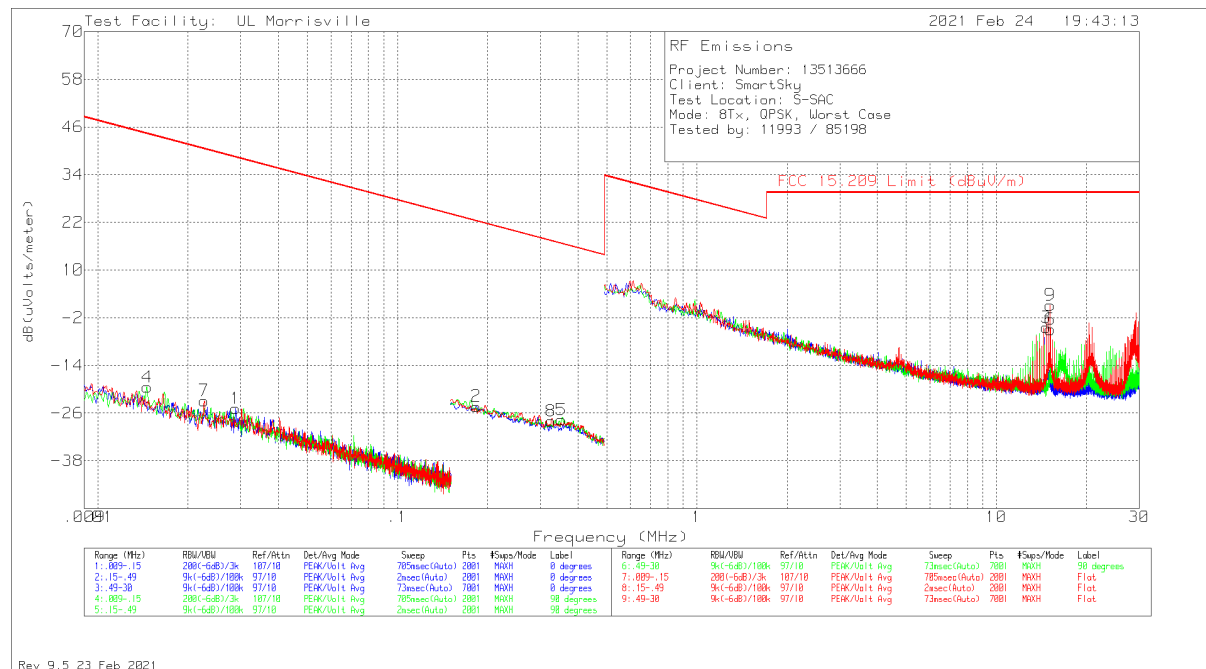
Pk - Peak detector

## 12.5. WORST-CASE BELOW 30MHz – FRB 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).

### 12.5.1. WORST-CASE BANDWIDTH, 4.5 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



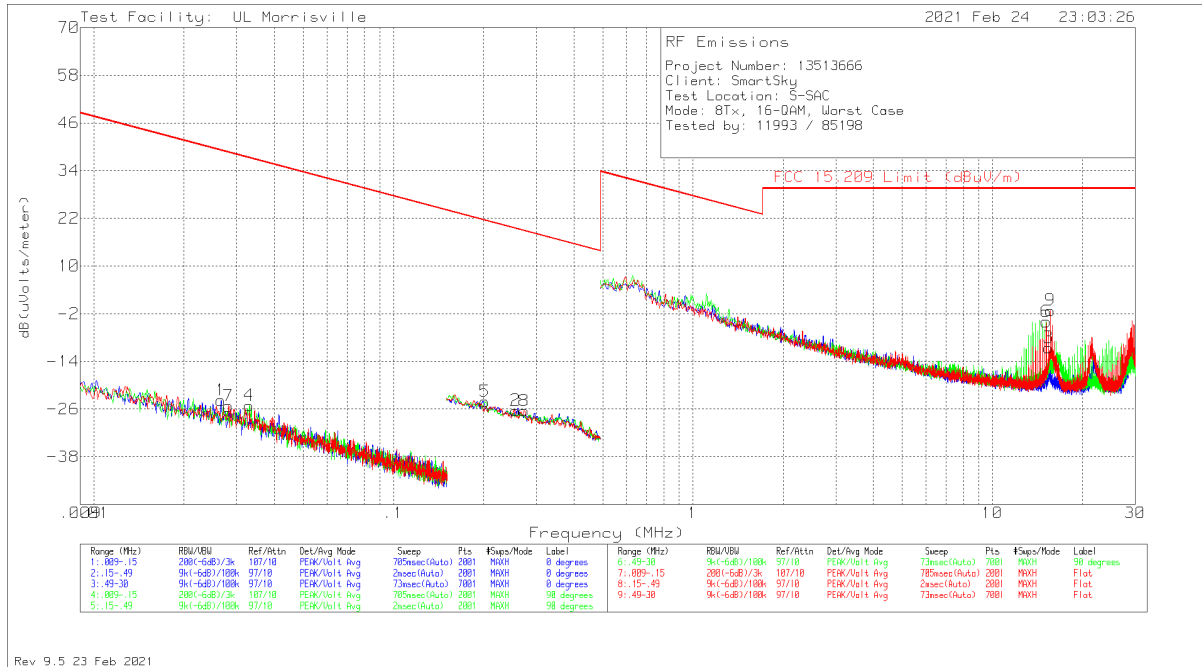
Rev 9.5 23 Feb 2021

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
4	.01461	44.42	Pk	16	.1	-80	-19.48	44.31	-63.79	0-360	Off
7	.02263	43.4	Pk	13.6	.1	-80	-22.9	40.51	-63.41	0-360	Flat
1	.02881	41.77	Pk	13.3	.1	-80	-24.83	38.41	-63.24	0-360	On
2	.18332	44.81	Pk	10.8	.1	-80	-24.29	22.34	-46.63	0-360	On
8	.32595	41.21	Pk	10.7	.1	-80	-27.99	17.34	-45.33	0-360	Flat
5	.35281	41.61	Pk	10.6	.1	-80	-27.69	16.65	-44.34	0-360	Off
3	14.65576	24.47	Pk	10.4	.7	-40	-4.43	29.54	-33.97	0-360	On
9	15.12795	29.94	Pk	10.4	.8	-40	1.14	29.54	-28.4	0-360	Flat
6	15.13638	23.87	Pk	10.4	.8	-40	-4.93	29.54	-34.47	0-360	Off

Pk - Peak detector

## 12.5.2. WORST-CASE BANDWIDTH, 4.5 MHz 16-QAM MODE

### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)

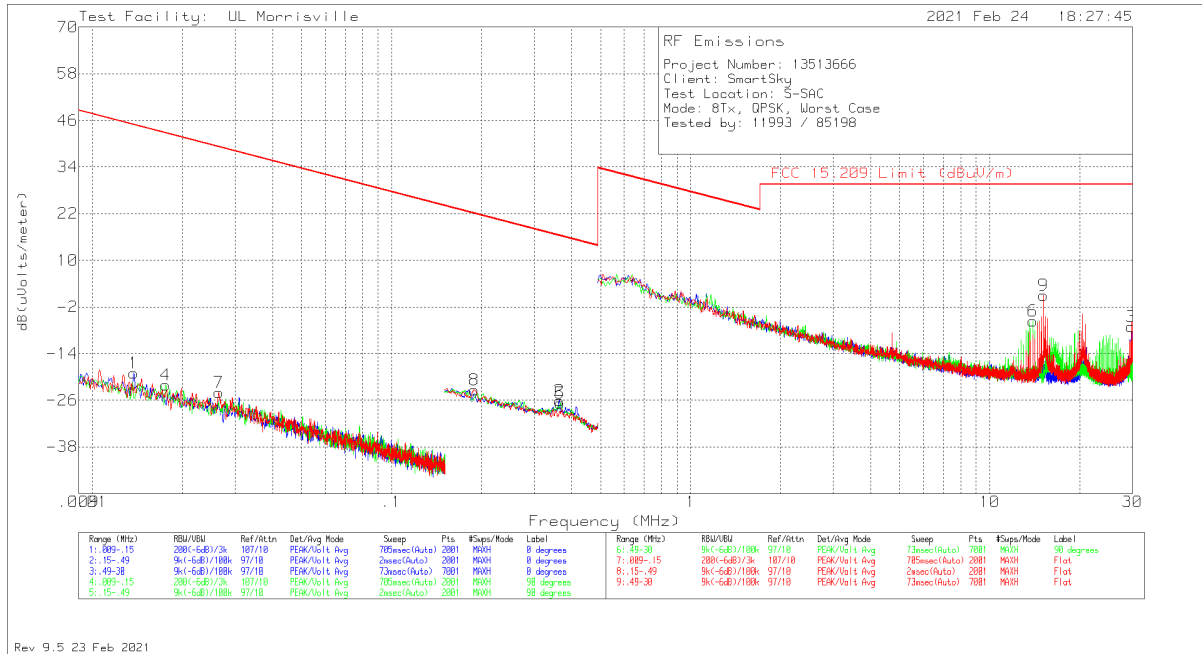


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.02657	42.71	Pk	13.4	.1	-80	-23.79	39.12	-62.91	0-360	On
7	.02817	41.29	Pk	13.4	.1	-80	-25.21	38.61	-63.82	0-360	Flat
4	.033	41.8	Pk	13	.1	-80	-25.1	37.23	-62.33	0-360	Off
5	.20185	44.99	Pk	10.8	.1	-80	-24.11	21.5	-45.61	0-360	Off
2	.25566	42.84	Pk	10.7	.1	-80	-26.36	19.45	-45.81	0-360	On
8	.27325	42.77	Pk	10.7	.1	-80	-26.43	18.87	-45.3	0-360	Flat
6	15.12795	24.82	Pk	10.4	.8	-40	-3.98	29.54	-33.52	0-360	Off
3	15.37248	18.28	Pk	10.4	.8	-40	-10.52	29.54	-40.06	0-360	On
9	15.62122	27.73	Pk	10.3	.8	-40	-1.17	29.54	-30.71	0-360	Flat

Pk - Peak detector

### 12.5.3. WORST-CASE BANDWIDTH, 9 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)

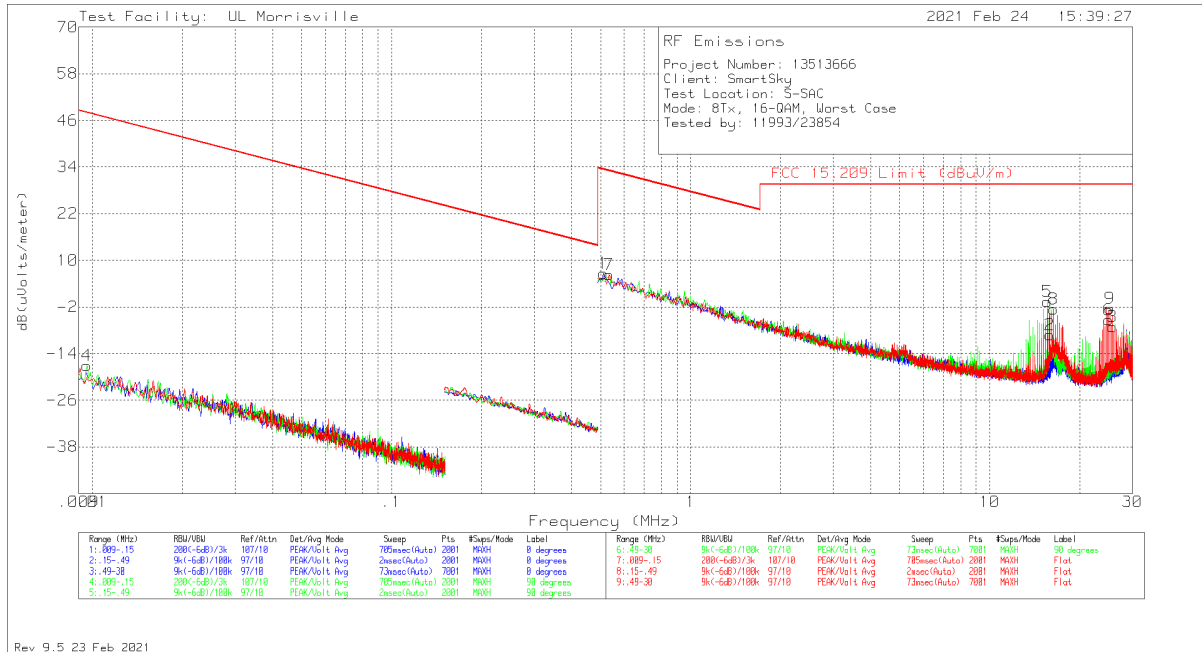


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01376	44.51	Pk	16.3	.1	-80	-19.09	44.83	-63.92	0-360	On
4	.01759	43.04	Pk	14.7	.1	-80	-22.16	42.7	-64.86	0-360	Off
7	.02647	42.53	Pk	13.4	.1	-80	-23.97	39.15	-63.12	0-360	Flat
8	.18927	45.77	Pk	10.8	.1	-80	-23.33	22.06	-45.39	0-360	Flat
2	.36369	43.21	Pk	10.6	.1	-80	-26.09	16.39	-42.48	0-360	On
5	.36701	42.6	Pk	10.6	.1	-80	-26.7	16.31	-43.01	0-360	Off
6	13.92218	23.27	Pk	10.4	.7	-40	-5.63	29.54	-35.17	0-360	Off
9	15.12374	29.78	Pk	10.4	.8	-40	.98	29.54	-28.56	0-360	Flat
3	29.77434	23.85	Pk	7.9	1.1	-40	-7.15	29.54	-36.69	0-360	On

Pk - Peak detector

### 12.5.4. WORST-CASE BANDWIDTH, 9 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.51108	35.69	Pk	10.8	.1	-40	6.59	33.43	-26.84	0-360	On
2	15.84467	19.79	Pk	10.3	.8	-40	-9.11	29.54	-38.65	0-360	On
3	25.68903	23.06	Pk	8.9	1	-40	-7.04	29.54	-36.58	0-360	On
4	.00957	44.55	Pk	18.3	.1	-80	-17.05	47.99	-65.04	0-360	Off
5	15.60014	28.26	Pk	10.3	.8	-40	-.64	29.54	-30.18	0-360	Off
6	24.96388	24.6	Pk	9.1	1	-40	-5.3	29.54	-34.84	0-360	Off
7	.53216	35.37	Pk	10.8	.1	-40	6.27	33.08	-26.81	0-360	Flat
8	16.3253	26.31	Pk	10.3	.8	-40	-2.59	29.54	-32.13	0-360	Flat
9	25.20419	27.6	Pk	9	1	-40	-2.4	29.54	-31.94	0-360	Flat

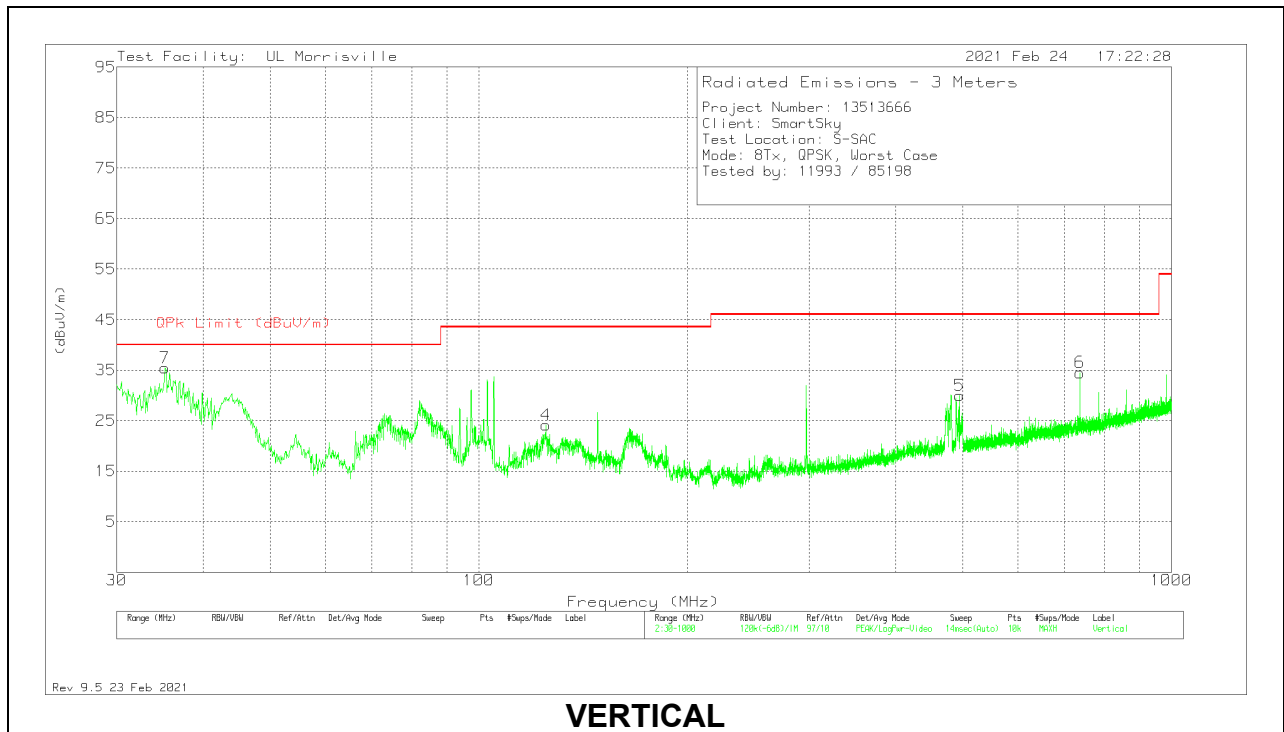
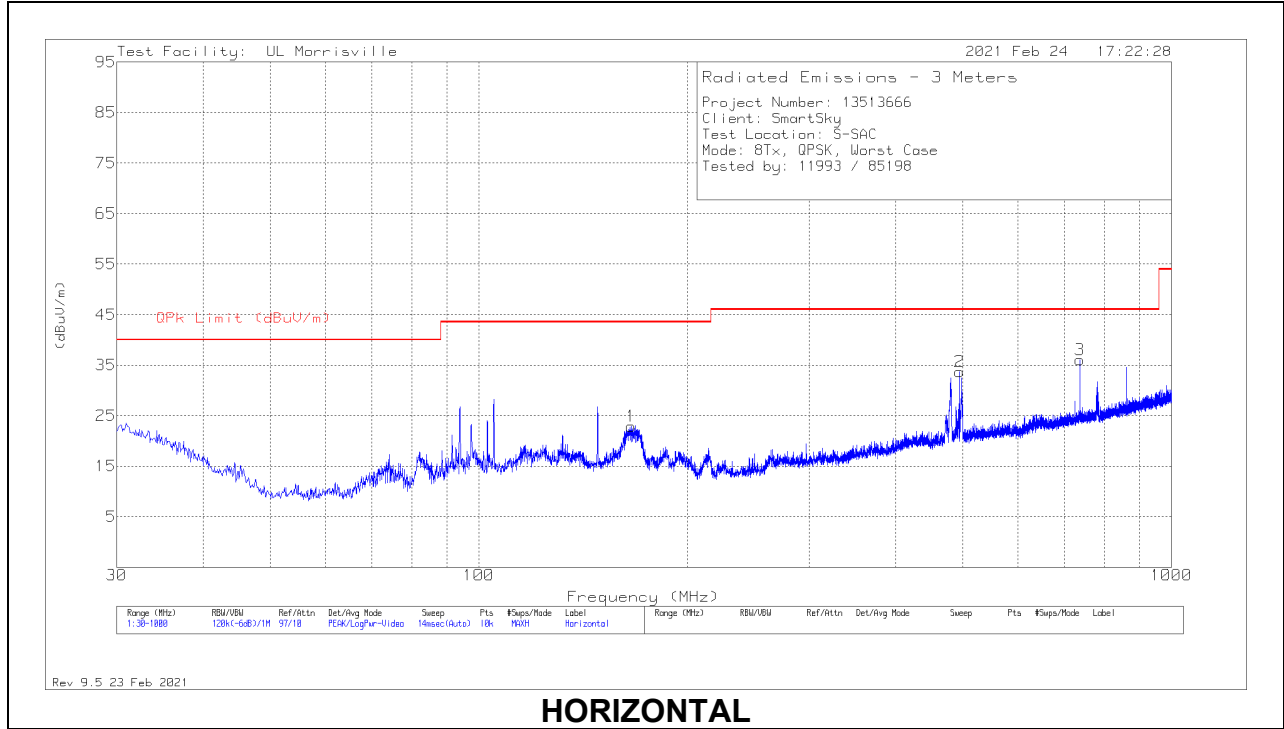
Pk - Peak detector



## 12.6. WORST-CASE 30-1000MHz – 3RB CONFIGURATION

### 12.6.1. WORST-CASE BANDWIDTH, 4.5 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 165.994	34.54	Pk	18.3	-29.9	22.94	43.52	-20.58	0-360	199	H
2	** 494.339	37.5	Pk	23.8	-27.6	33.7	46.02	-12.32	0-360	199	H
3	** 737.324	36.02	Pk	26.8	-26.8	36.02	46.02	-10	0-360	101	H
4	*** 124.866	34.35	Pk	20.1	-30.3	24.15	43.52	-19.37	0-360	101	V
5	** 494.339	33.76	Pk	23.8	-27.6	29.96	46.02	-16.06	0-360	101	V
6	** 737.324	34.51	Pk	26.8	-26.8	34.51	46.02	-11.51	0-360	101	V
7	35.238	43.52	Pk	23.4	-31.5	35.42	-	-	0-360	101	V

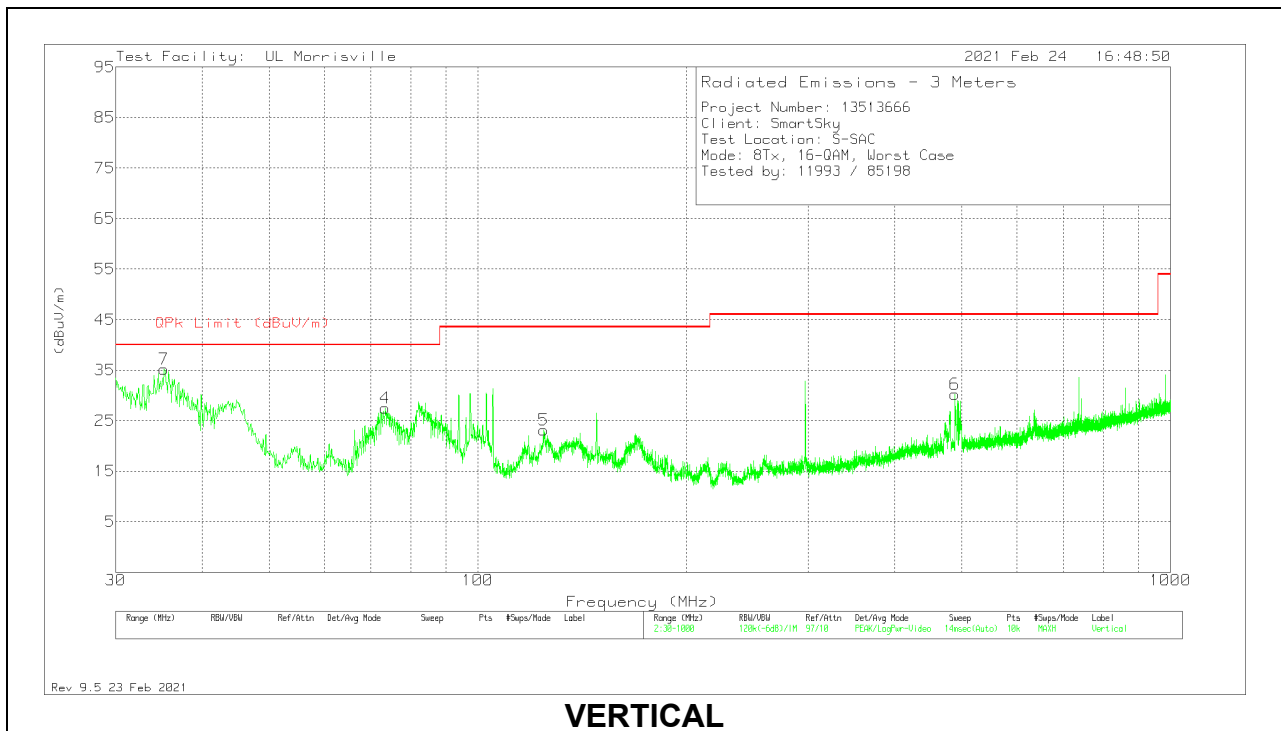
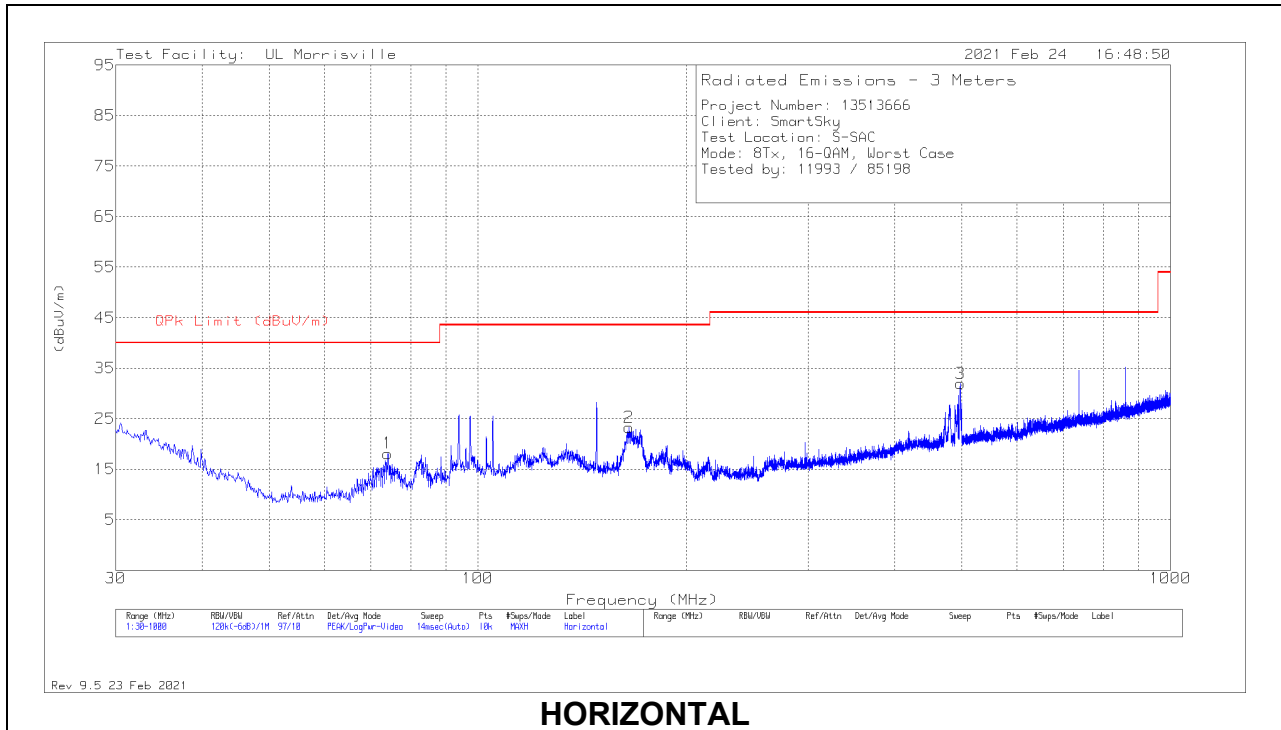
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

## 12.6.2. WORST-CASE BANDWIDTH, 4.5 MHz 16-QAM MODE

### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 74.135	34.72	Pk	14.3	-30.9	18.12	40	-21.88	0-360	199	H
2	*** 165.218	34.88	Pk	18.3	-29.9	23.28	43.52	-20.24	0-360	101	H
3	** 497.249	35.97	Pk	23.8	-27.8	31.97	46.02	-14.05	0-360	199	H
4	* 73.456	44.03	Pk	14.4	-30.9	27.53	40	-12.47	0-360	101	V
5	*** 124.575	33.31	Pk	20.1	-30.3	23.11	43.52	-20.41	0-360	101	V
6	** 488.325	34.24	Pk	23.8	-27.8	30.24	46.02	-15.78	0-360	101	V
7	35.238	43.3	Pk	23.4	-31.5	35.2	-	-	0-360	101	V

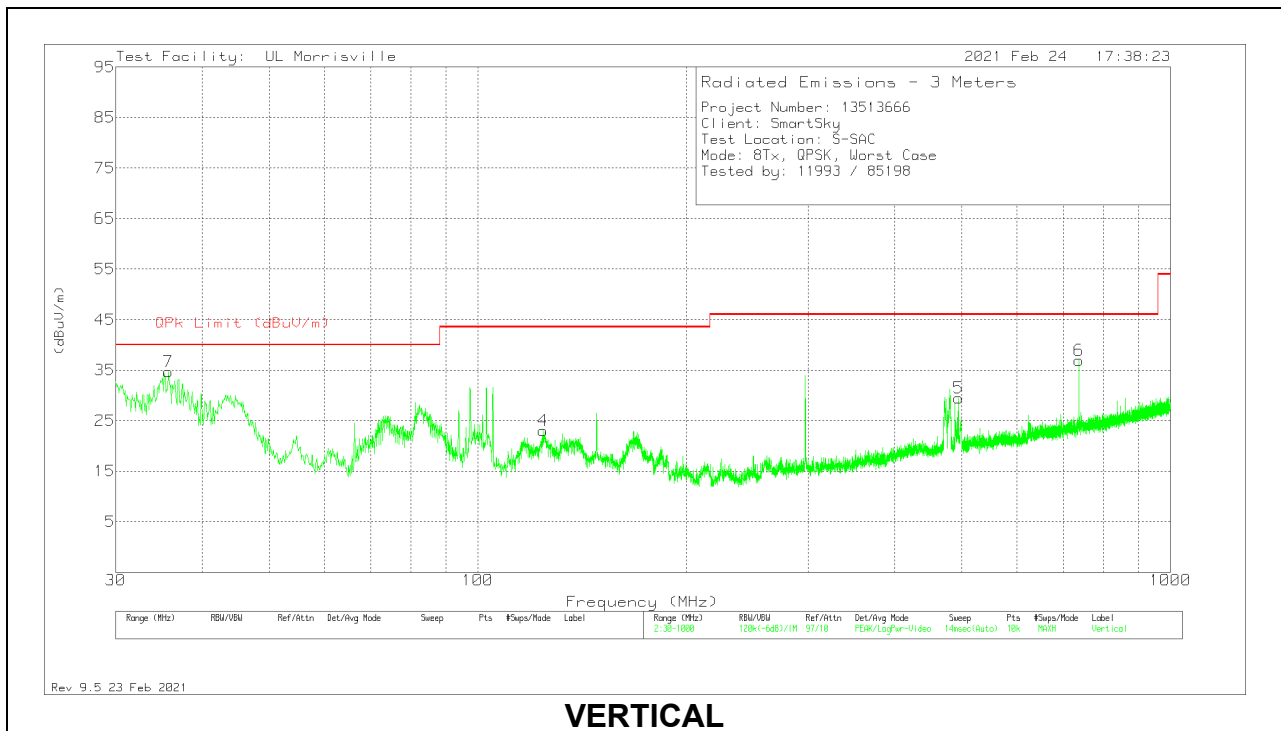
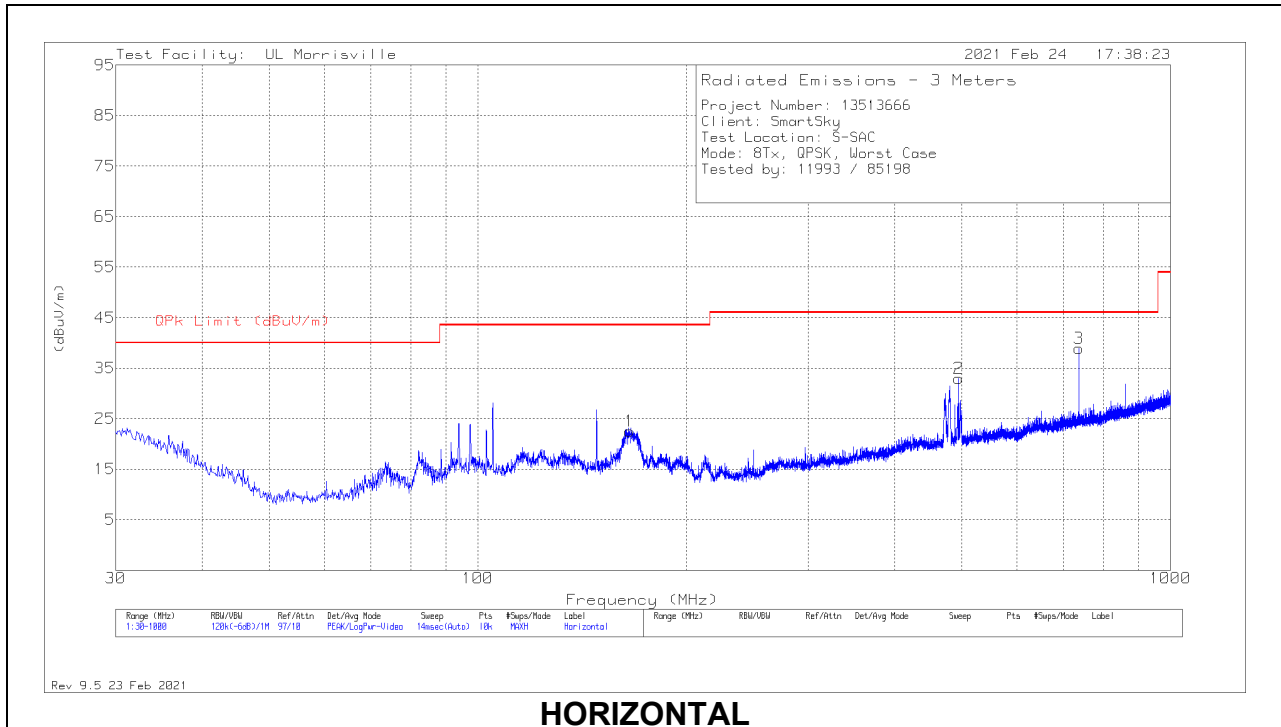
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.6.3. WORST-CASE BANDWIDTH, 9 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 165.509	34.07	Pk	18.3	-29.9	22.47	43.52	-21.05	0-360	199	H
2	** 494.339	36.71	Pk	23.8	-27.6	32.91	46.02	-13.11	0-360	199	H
3	** 737.324	38.87	Pk	26.8	-26.8	38.87	46.02	-7.15	0-360	101	H
4	*** 124.09	33.22	Pk	20.1	-30.3	23.02	43.52	-20.5	0-360	101	V
5	** 494.339	33.24	Pk	23.8	-27.6	29.44	46.02	-16.58	0-360	101	V
6	** 737.324	36.96	Pk	26.8	-26.8	36.96	46.02	-9.06	0-360	101	V
7	35.723	43.13	Pk	23	-31.4	34.73	-	-	0-360	101	V

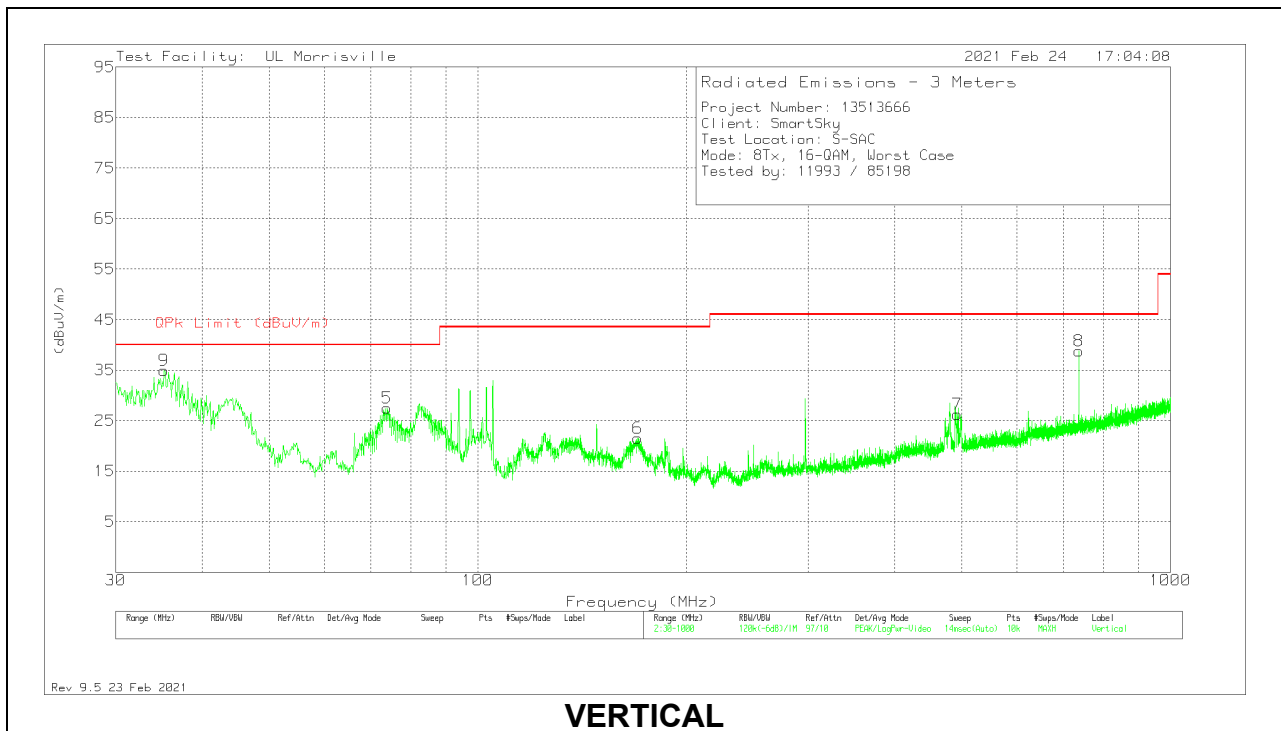
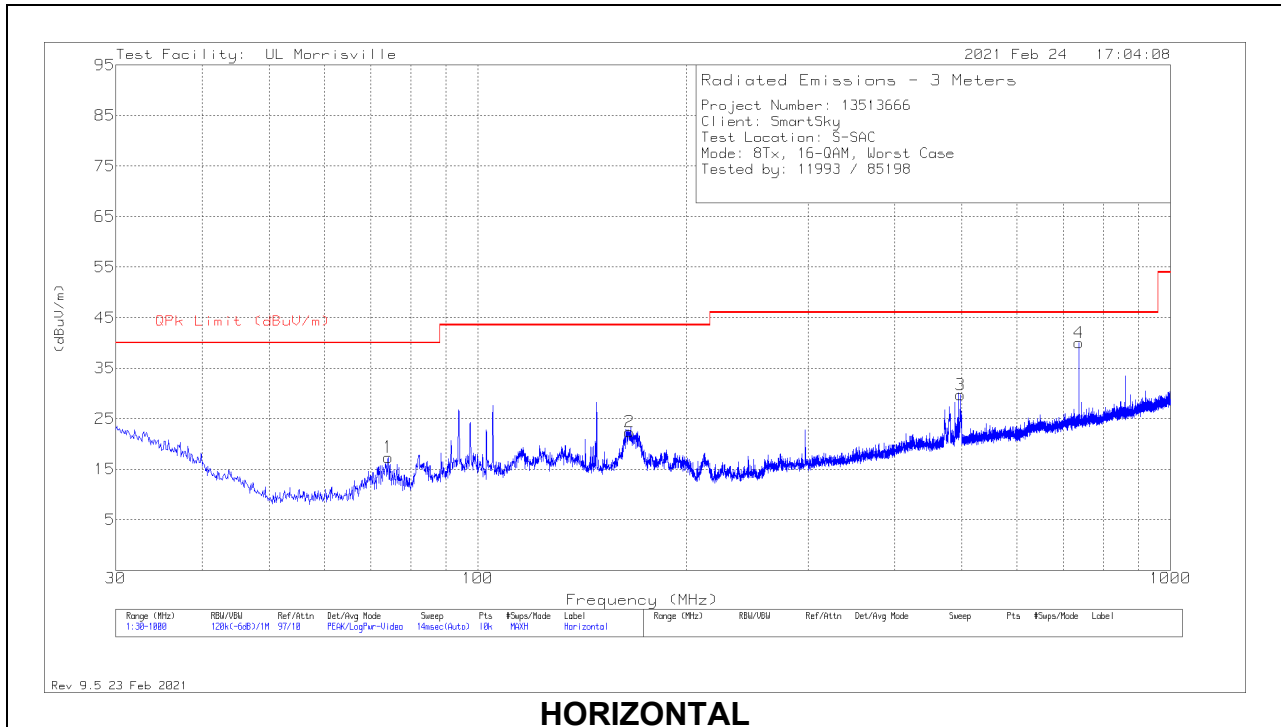
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.6.4. WORST-CASE BANDWIDTH, 9 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 74.232	33.97	Pk	14.3	-30.9	17.37	40	-22.63	0-360	199	H
2	*** 165.509	34.04	Pk	18.3	-29.9	22.44	43.52	-21.08	0-360	199	H
3	** 497.443	33.78	Pk	23.8	-27.8	29.78	46.02	-16.24	0-360	199	H
4	** 737.324	39.99	Pk	26.8	-26.8	39.99	46.02	-6.03	0-360	101	H
5	*** 73.941	44.12	Pk	14.3	-30.9	27.52	40	-12.48	0-360	101	V
6	*** 169.971	33.35	Pk	18	-29.8	21.55	43.52	-21.97	0-360	101	V
7	** 492.108	30.13	Pk	23.8	-27.7	26.23	46.02	-19.79	0-360	101	V
8	** 737.324	38.76	Pk	26.8	-26.8	38.76	46.02	-7.26	0-360	101	V
9	35.238	43	Pk	23.4	-31.5	34.9	-	-	0-360	101	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

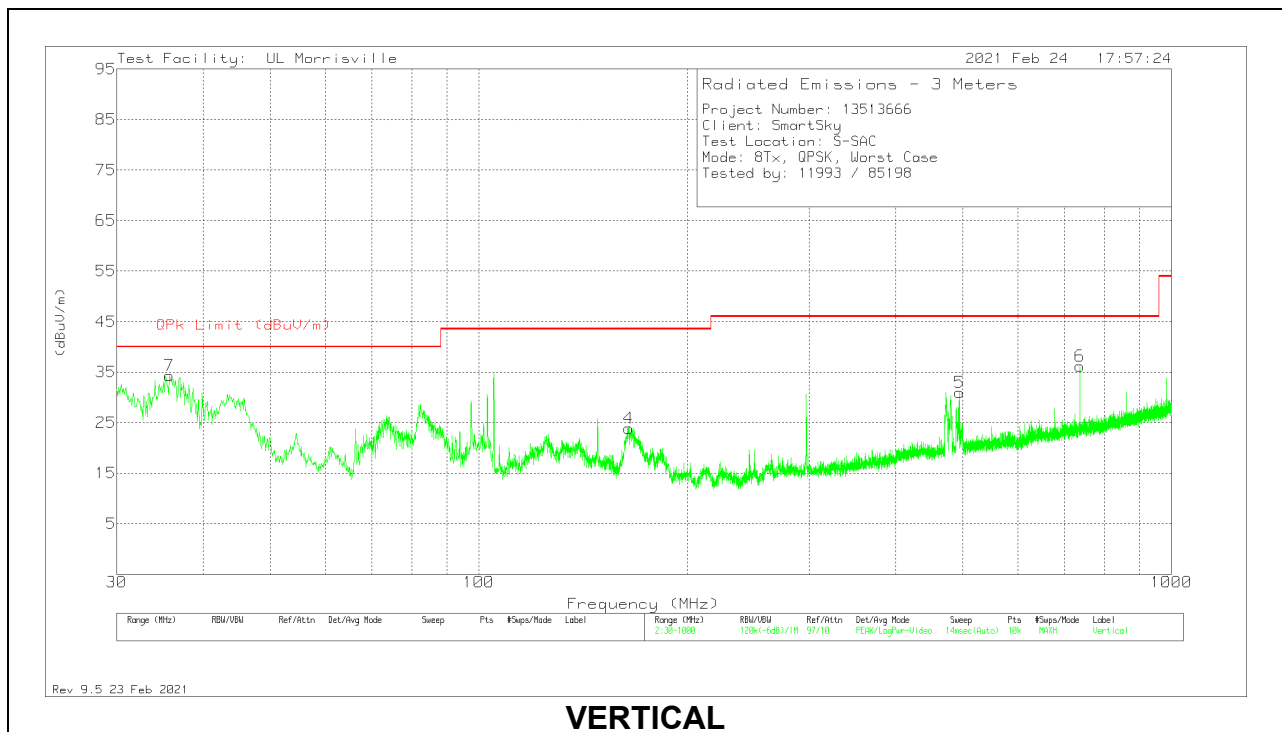
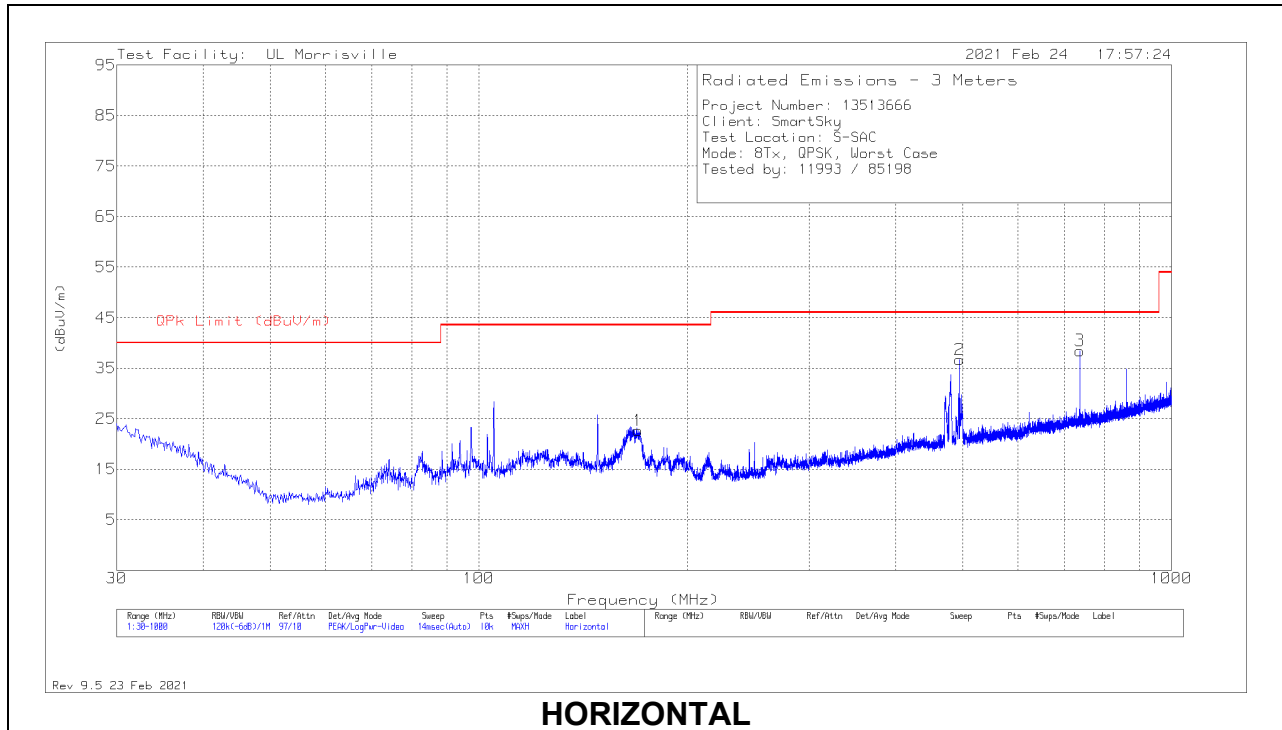
Pk - Peak detector



## 12.7. WORST-CASE 30-1000MHz – FRB CONFIGURATION

### 12.7.1. WORST-CASE BANDWIDTH, 4.5 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 169.874	34.41	Pk	18	-29.8	22.61	43.52	-20.91	0-360	199	H
2	** 494.339	40.45	Pk	23.8	-27.6	36.65	46.02	-9.37	0-360	199	H
3	** 737.324	38.48	Pk	26.8	-26.8	38.48	46.02	-7.54	0-360	101	H
4	*** 164.442	35.43	Pk	18.4	-29.9	23.93	43.52	-19.59	0-360	101	V
5	** 494.339	34.76	Pk	23.8	-27.6	30.96	46.02	-15.06	0-360	101	V
6	** 737.324	36.2	Pk	26.8	-26.8	36.2	46.02	-9.82	0-360	101	V
7	35.723	42.74	Pk	23	-31.4	34.34	-	-	0-360	101	V

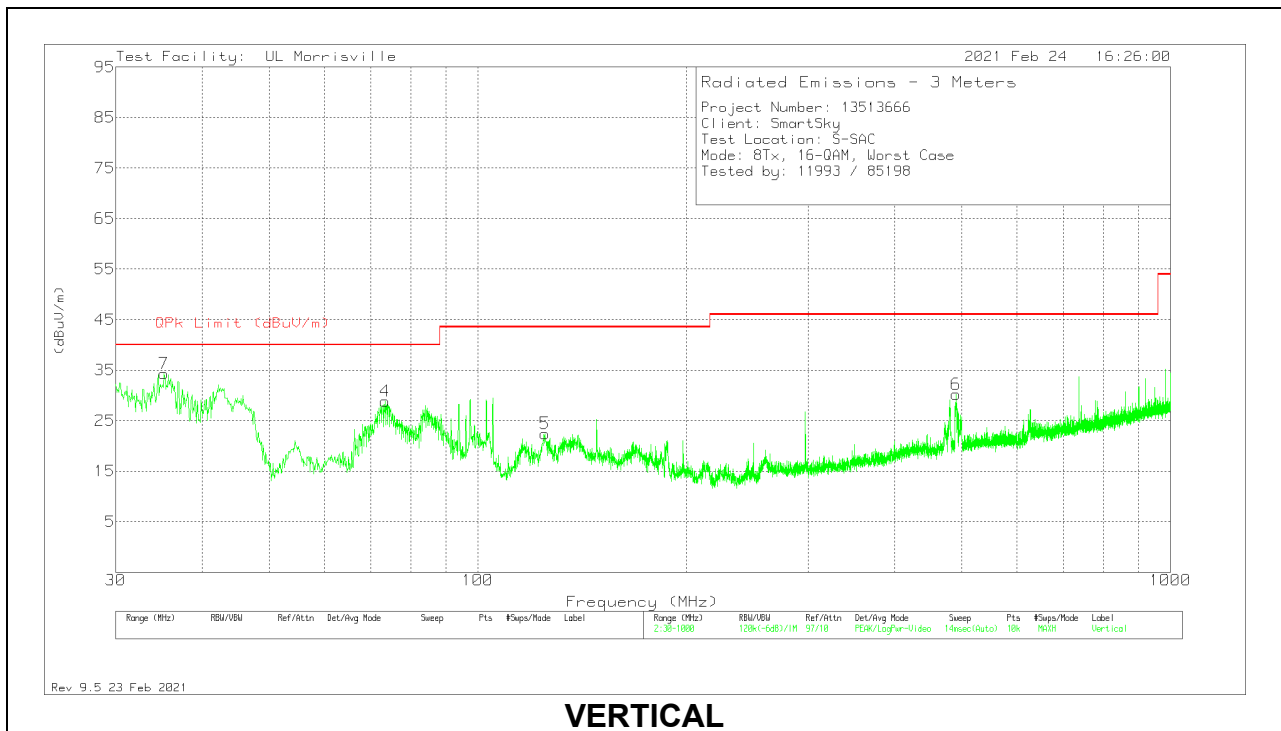
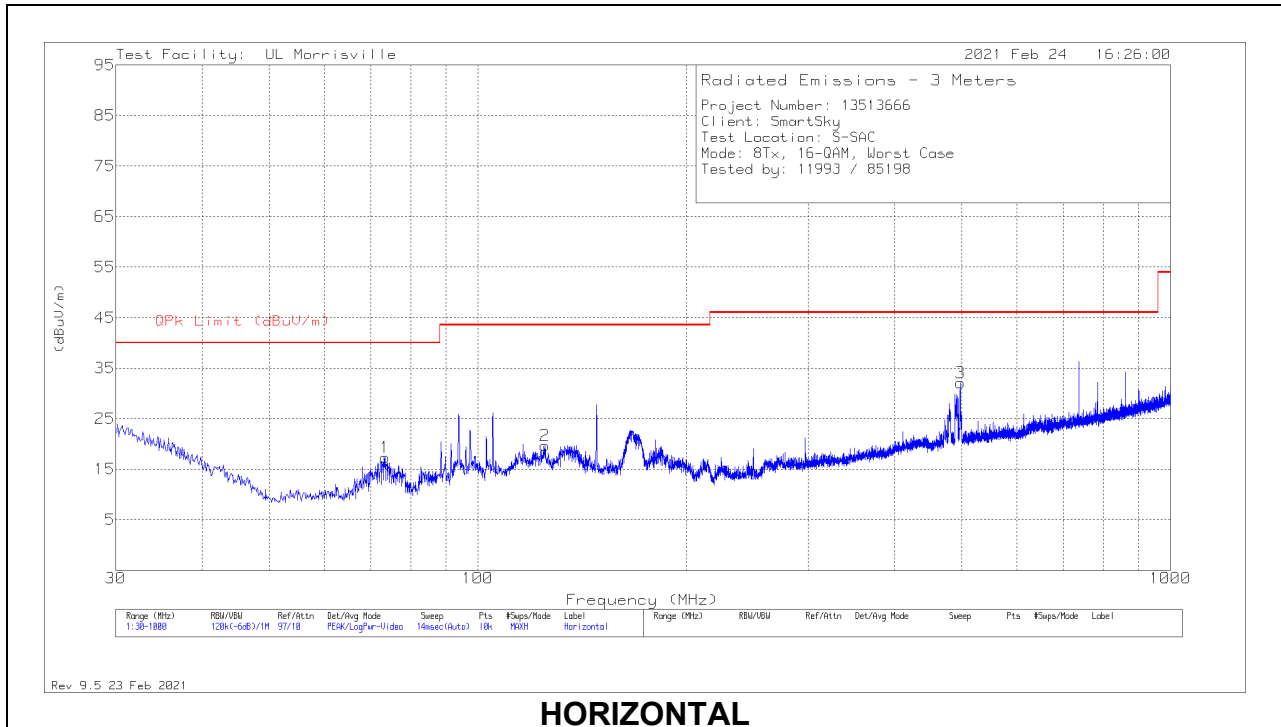
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.7.2. WORST-CASE BANDWIDTH, 4.5 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 73.456	33.84	Pk	14.4	-30.9	17.34	40	-22.66	0-360	199	H
2	** 124.866	29.84	Pk	20.1	-30.3	19.64	43.52	-23.88	0-360	299	H
3	** 497.249	36.08	Pk	23.8	-27.8	32.08	46.02	-13.94	0-360	199	H
4	* 73.456	45.32	Pk	14.4	-30.9	28.82	40	-11.18	0-360	101	V
5	** 125.06	32.66	Pk	20.1	-30.3	22.46	43.52	-21.06	0-360	101	V
6	** 490.265	34.17	Pk	23.8	-27.8	30.17	46.02	-15.85	0-360	101	V
7	35.238	42.39	Pk	23.4	-31.5	34.29	-	-	0-360	101	V

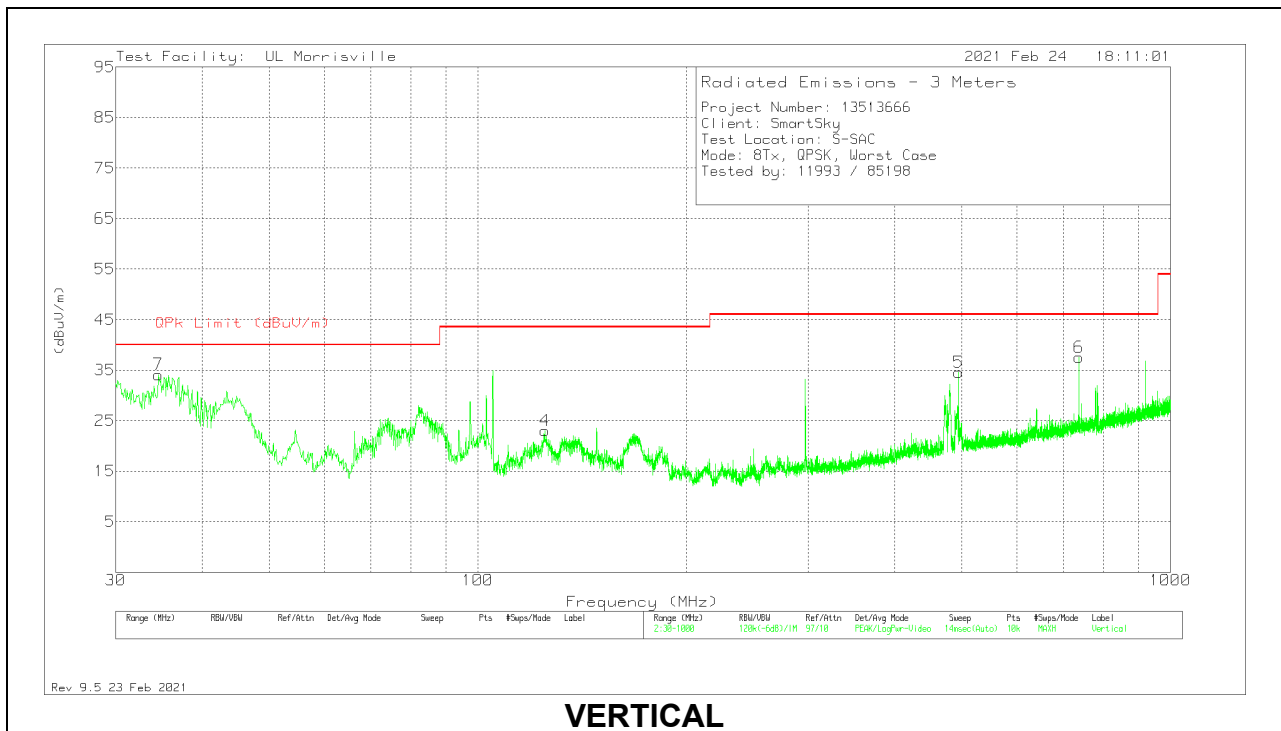
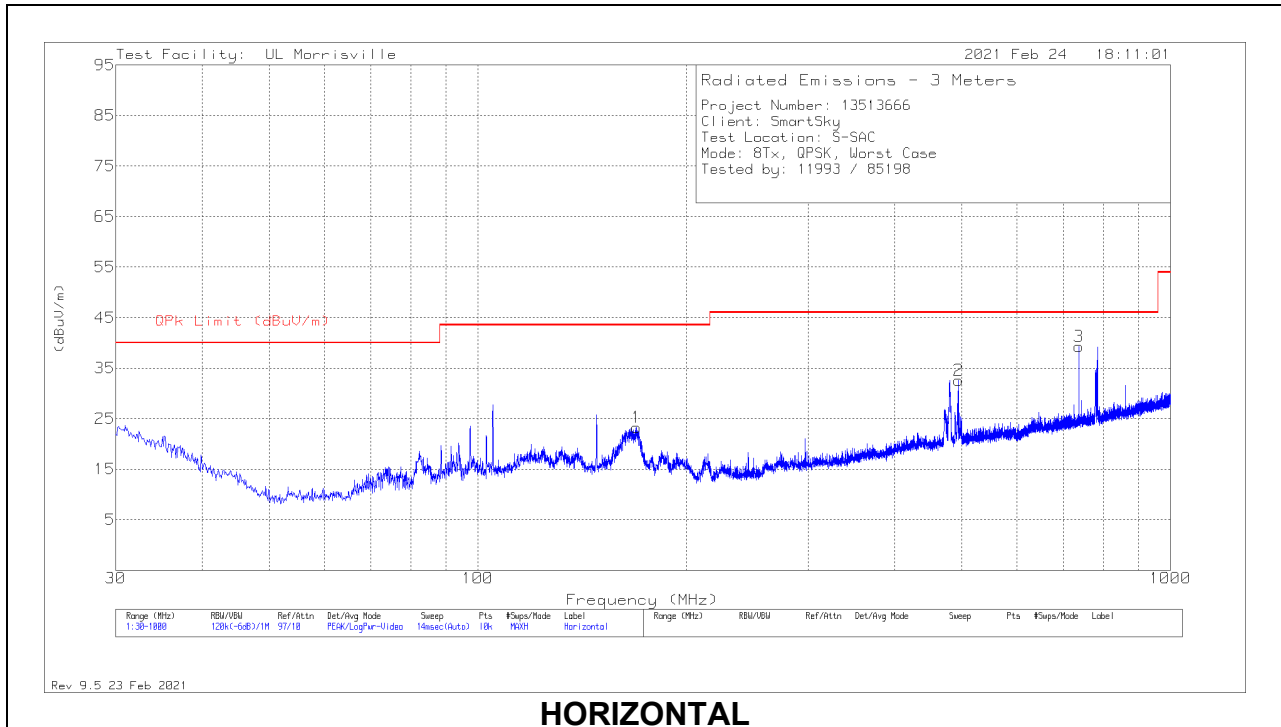
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.7.3. WORST-CASE BANDWIDTH, 9 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 169.389	34.95	Pk	18.1	-29.8	23.25	43.52	-20.27	0-360	101	H
2	** 494.339	36.43	Pk	23.8	-27.6	32.63	46.02	-13.39	0-360	199	H
3	** 737.324	39.3	Pk	26.8	-26.8	39.3	46.02	-6.72	0-360	101	H
4	*** 124.866	33.25	Pk	20.1	-30.3	23.05	43.52	-20.47	0-360	101	V
5	** 494.339	38.32	Pk	23.8	-27.6	34.52	46.02	-11.5	0-360	101	V
6	** 737.324	37.56	Pk	26.8	-26.8	37.56	46.02	-8.46	0-360	101	V
7	34.559	41.73	Pk	23.9	-31.5	34.13	-	-	0-360	101	V

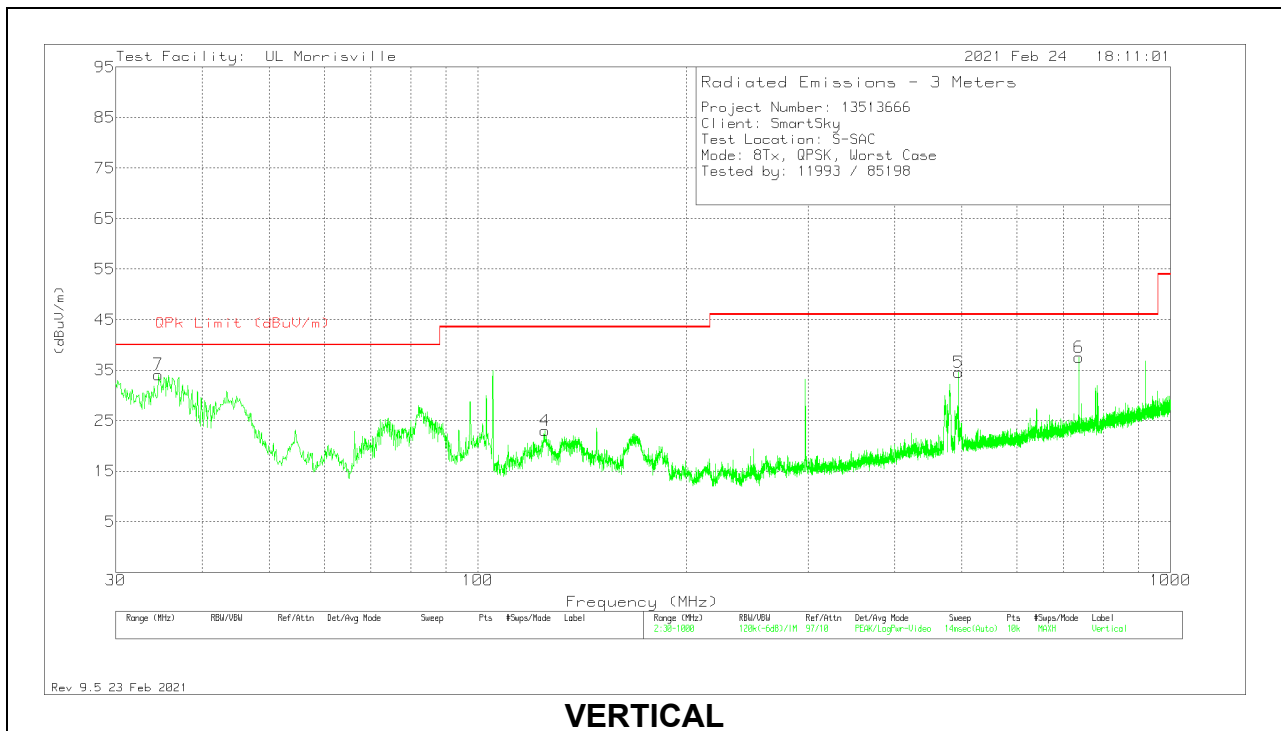
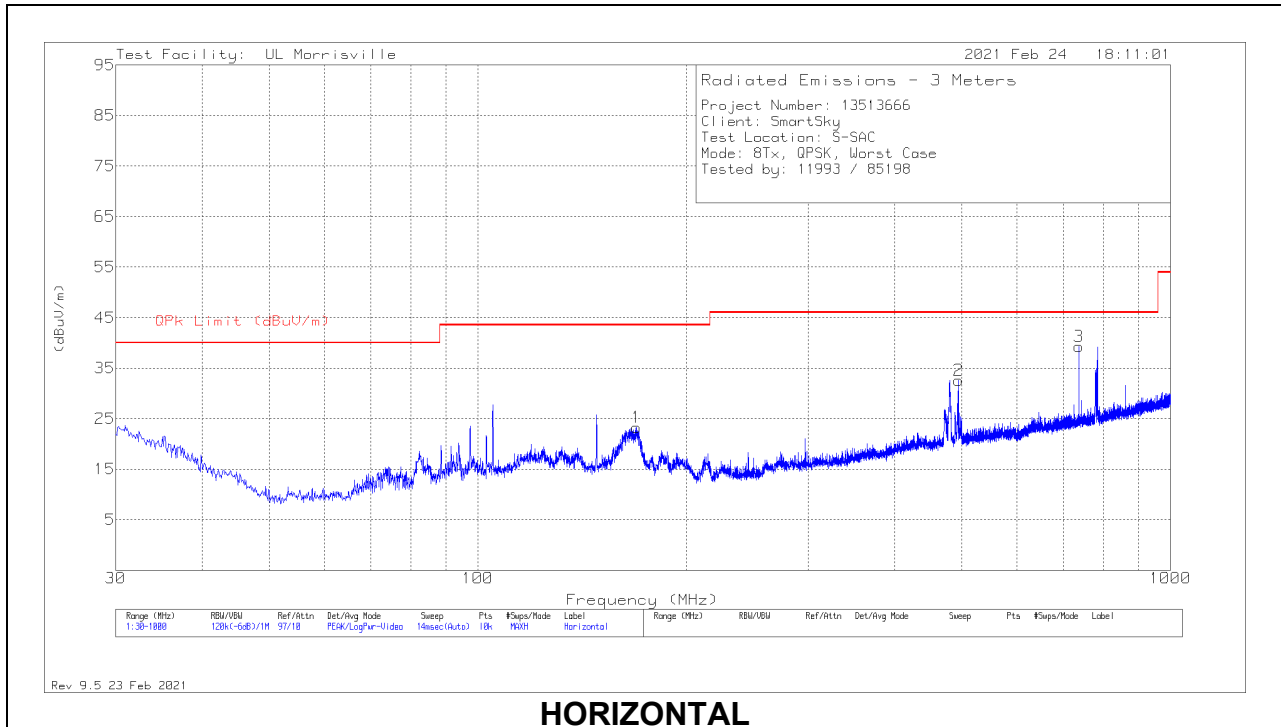
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.7.4. WORST-CASE BANDWIDTH, 9 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 169.389	34.95	Pk	18.1	-29.8	23.25	43.52	-20.27	0-360	101	H
2	** 494.339	36.43	Pk	23.8	-27.6	32.63	46.02	-13.39	0-360	199	H
3	** 737.324	39.3	Pk	26.8	-26.8	39.3	46.02	-6.72	0-360	101	H
4	*** 124.866	33.25	Pk	20.1	-30.3	23.05	43.52	-20.47	0-360	101	V
5	** 494.339	38.32	Pk	23.8	-27.6	34.52	46.02	-11.5	0-360	101	V
6	** 737.324	37.56	Pk	26.8	-26.8	37.56	46.02	-8.46	0-360	101	V
7	34.559	41.73	Pk	23.9	-31.5	34.13	-	-	0-360	101	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

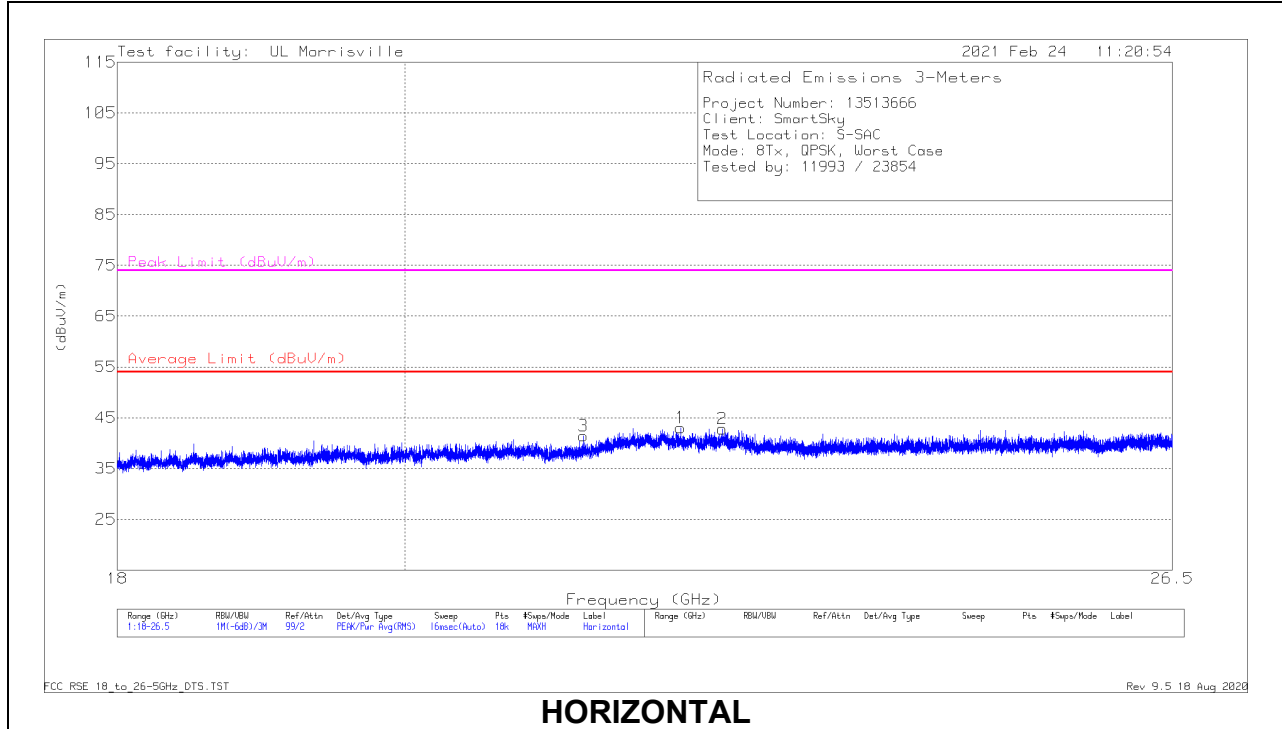
Pk - Peak detector



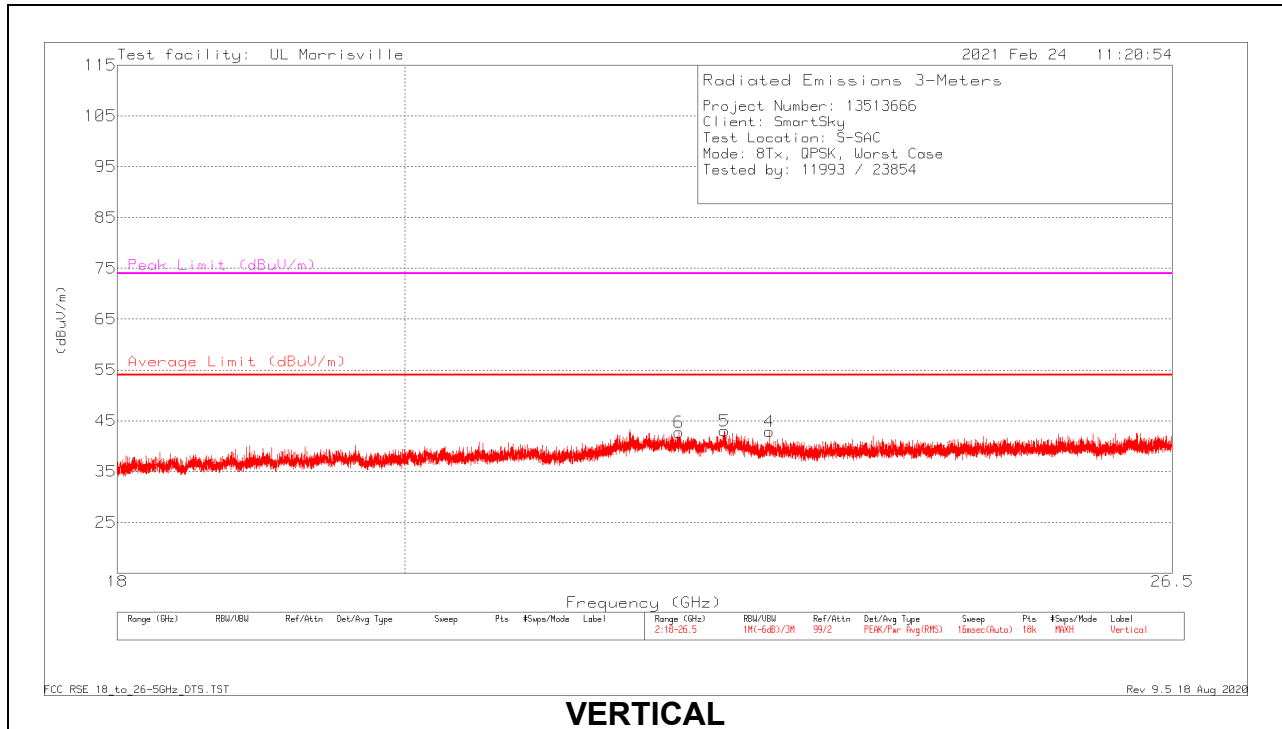
## 12.8. WORST-CASE ABOVE 18 GHz – 3RB CONFIGURATION

### 12.8.1. WORST-CASE BANDWIDTH, 4.5 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 22.12839	45.32	Pk	36.7	-39	43.02	54	-10.98	74	-30.98	0-360	150	H
2	*** 22.47172	45.32	Pk	36.5	-39	42.82	54	-11.18	74	-31.18	0-360	249	H
3	*** 21.35532	46.12	Pk	34.6	-39.3	41.42	54	-12.58	74	-32.58	0-360	249	H
4	*** 22.86321	46.25	Pk	35.4	-38.8	42.85	54	-11.15	74	-31.15	0-360	201	V
5	*** 22.48825	45.38	Pk	36.4	-38.8	42.98	54	-11.02	74	-31.02	0-360	101	V
6	*** 22.11375	44.92	Pk	36.7	-38.9	42.72	54	-11.28	74	-31.28	0-360	150	V

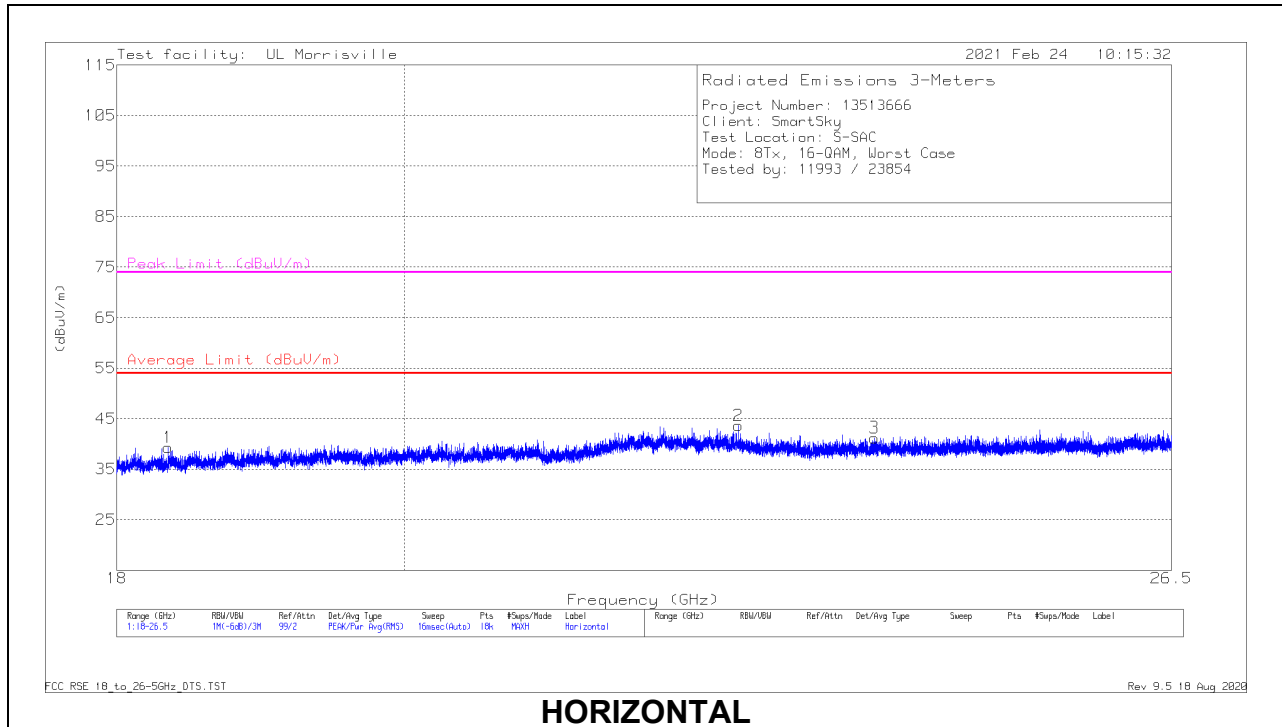
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

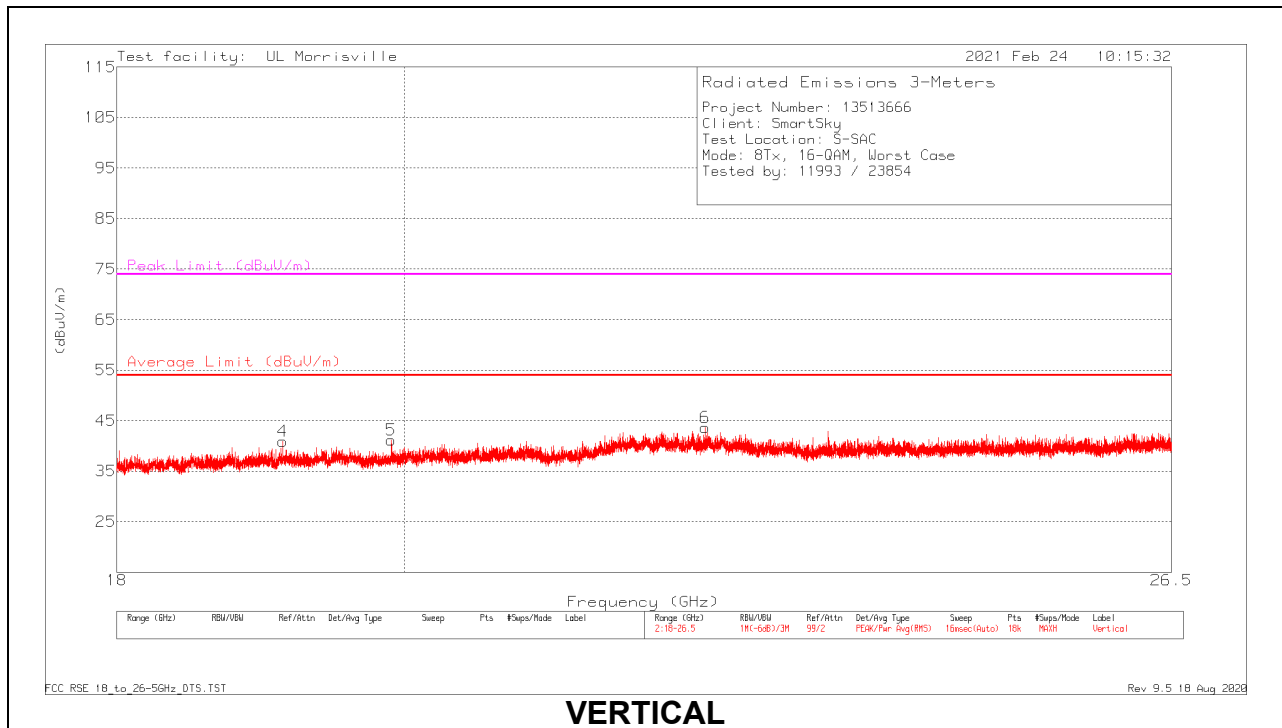
Pk - Peak detector

## 12.8.2. WORST-CASE BANDWIDTH, 4.5 MHz 16-QAM MODE

### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 18.34332	45.45	Pk	33.1	-39.3	39.25	54	-14.75	74	-34.75	0-360	300	H
2	*** 22.6089	46.42	Pk	36.1	-38.9	43.62	54	-10.38	74	-30.38	0-360	199	H
3	*** 23.76426	45.02	Pk	34.8	-38.6	41.22	54	-12.78	74	-32.78	0-360	199	H
4	*** 19.13151	46.57	Pk	33.4	-39.1	40.87	54	-13.13	74	-33.13	0-360	250	V
5	*** 19.90788	46.42	Pk	33.5	-38.8	41.12	54	-12.88	74	-32.88	0-360	200	V
6	*** 22.33382	46.6	Pk	36.5	-39.4	43.7	54	-10.3	74	-30.3	0-360	101	V

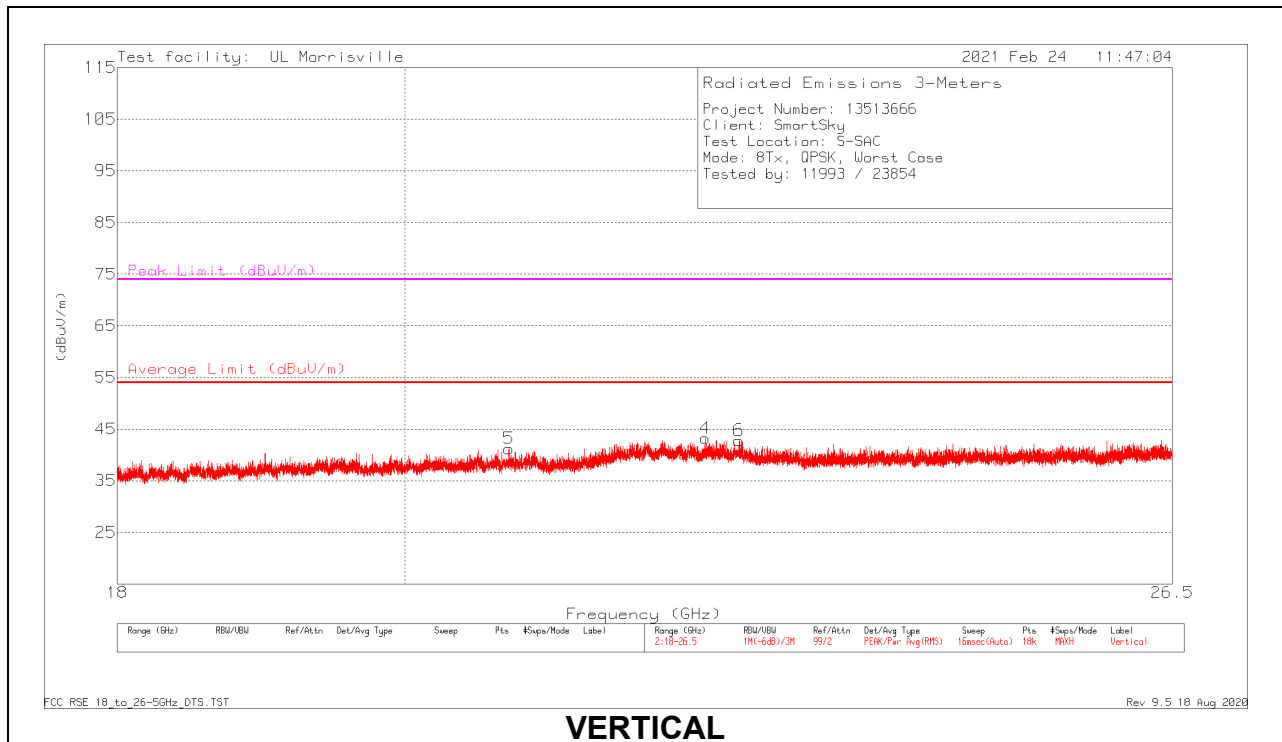
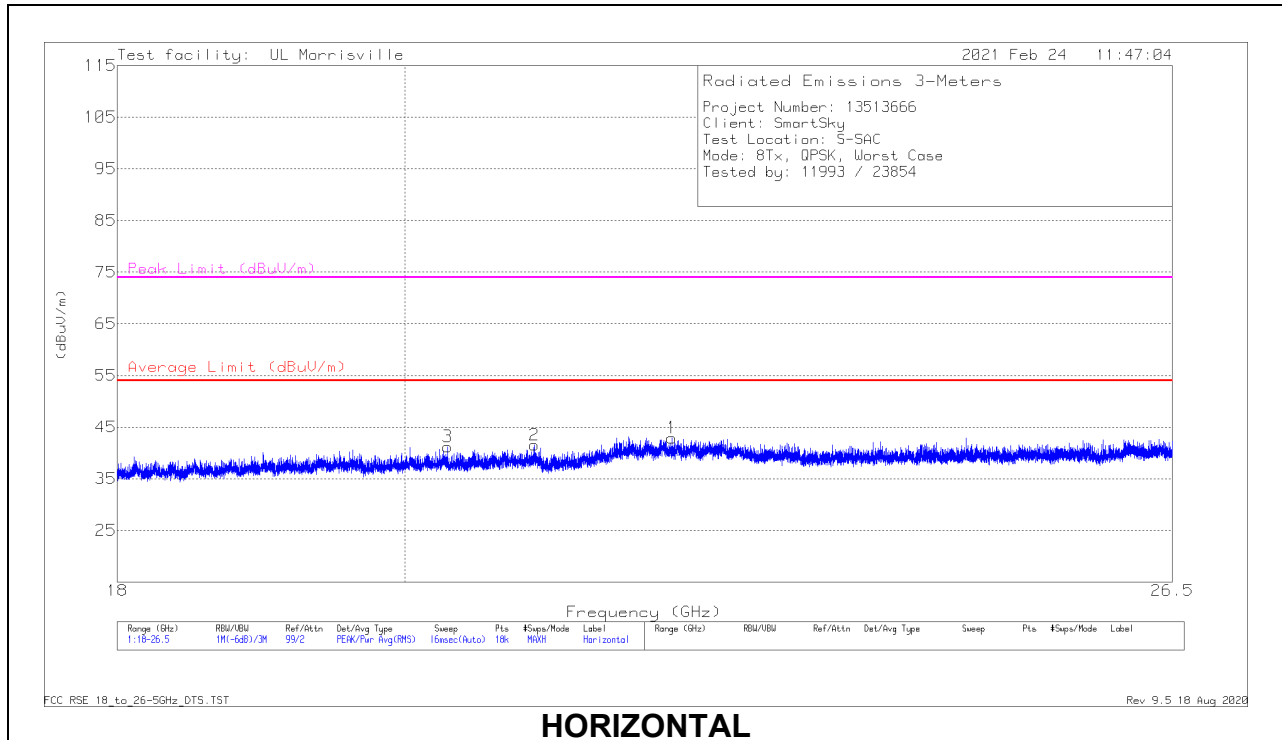
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.8.3. WORST-CASE BANDWIDTH, 9 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 22.05755	45.31	Pk	36.9	-39.3	42.91	54	-11.09	74	-31.09	0-360	200	H
2	*** 20.9728	46.64	Pk	34.2	-39.3	41.54	54	-12.46	74	-32.46	0-360	200	H
3	*** 20.31732	46.3	Pk	33.9	-39	41.2	54	-12.8	74	-32.8	0-360	200	H
4	*** 22.33099	46.12	Pk	36.5	-39.4	43.22	54	-10.78	74	-30.78	0-360	150	V
5	*** 20.77965	46.33	Pk	34	-39.1	41.23	54	-12.77	74	-32.77	0-360	250	V
6	*** 22.60772	45.59	Pk	36.1	-38.9	42.79	54	-11.21	74	-31.21	0-360	299	V

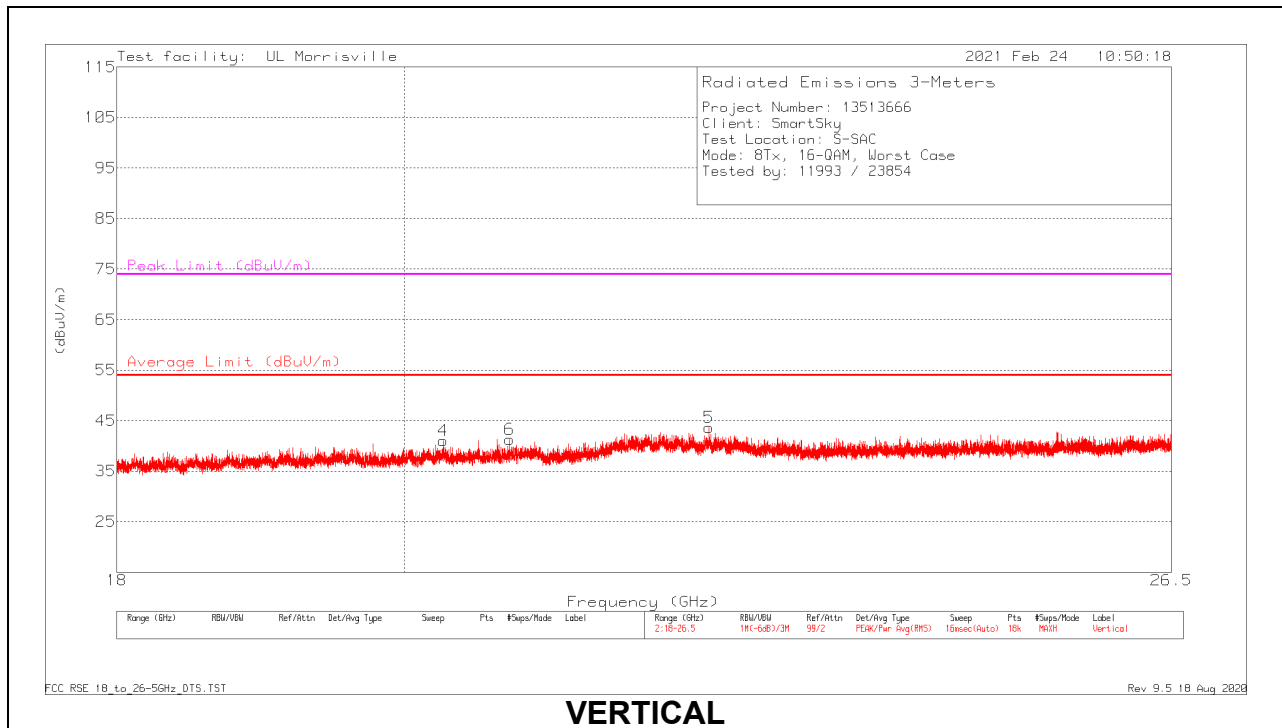
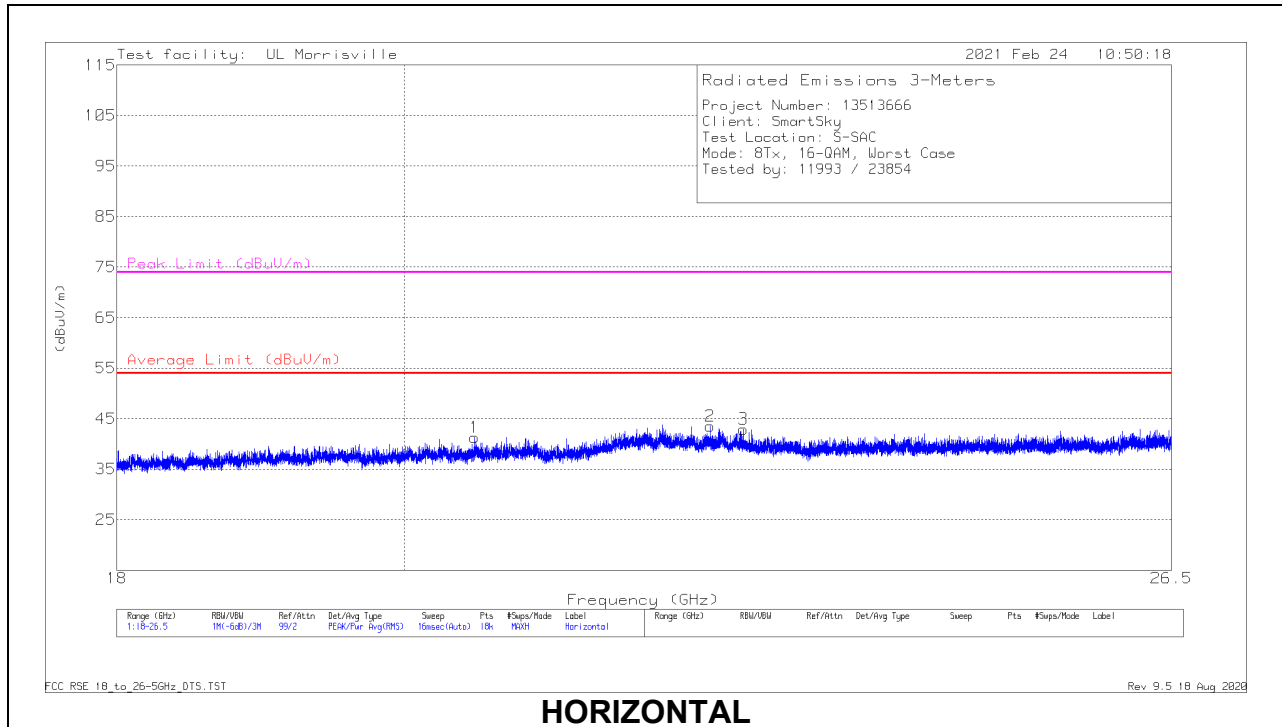
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 12.8.4. WORST-CASE BANDWIDTH, 9 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 20.52369	46.28	Pk	34	-39	41.28	54	-12.72	74	-32.72	0-360	101	H
2	** 22.37538	45.98	Pk	36.5	-39	43.48	54	-10.52	74	-30.52	0-360	300	H
3	*** 22.6507	46.06	Pk	36	-39.1	42.96	54	-11.04	74	-31.04	0-360	250	H
4	*** 20.29088	45.69	Pk	33.9	-38.6	40.99	54	-13.01	74	-33.01	0-360	300	V
5	*** 22.36404	46.09	Pk	36.5	-38.9	43.69	54	-10.31	74	-30.31	0-360	250	V
6	*** 20.79004	46.23	Pk	34	-39	41.23	54	-12.77	74	-32.77	0-360	150	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

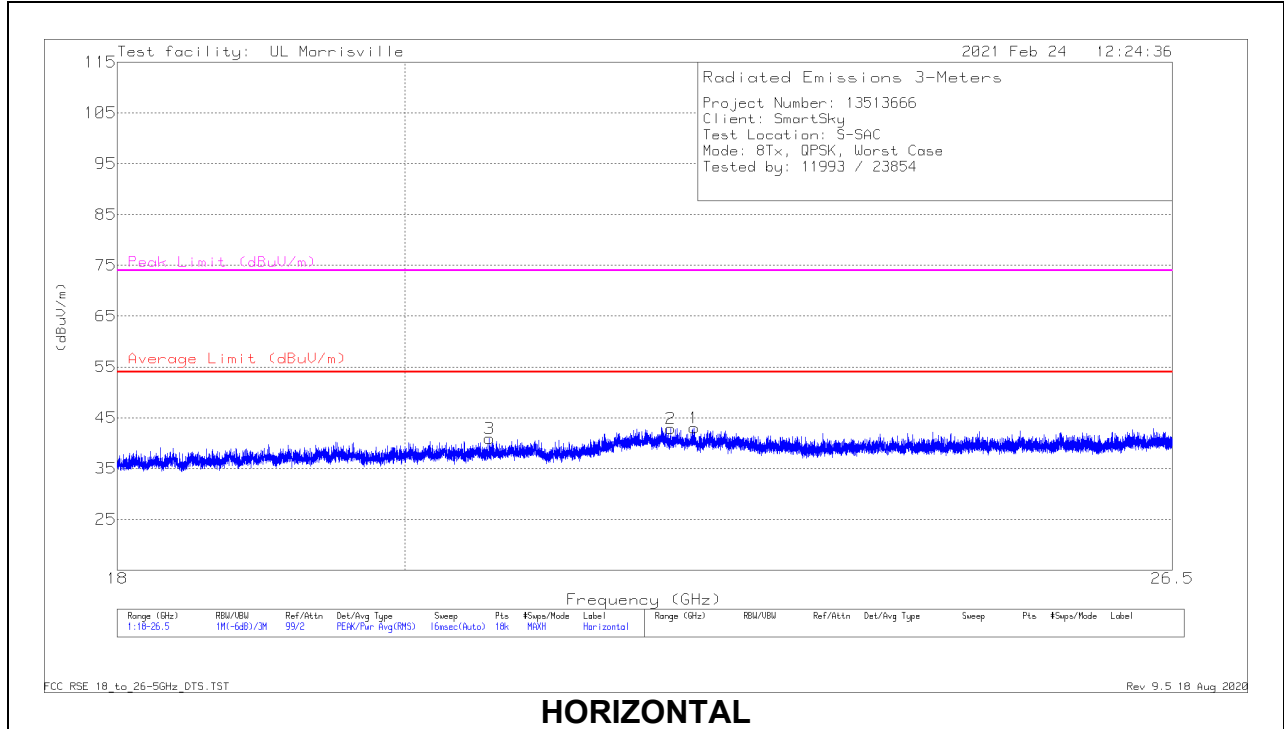
Pk - Peak detector



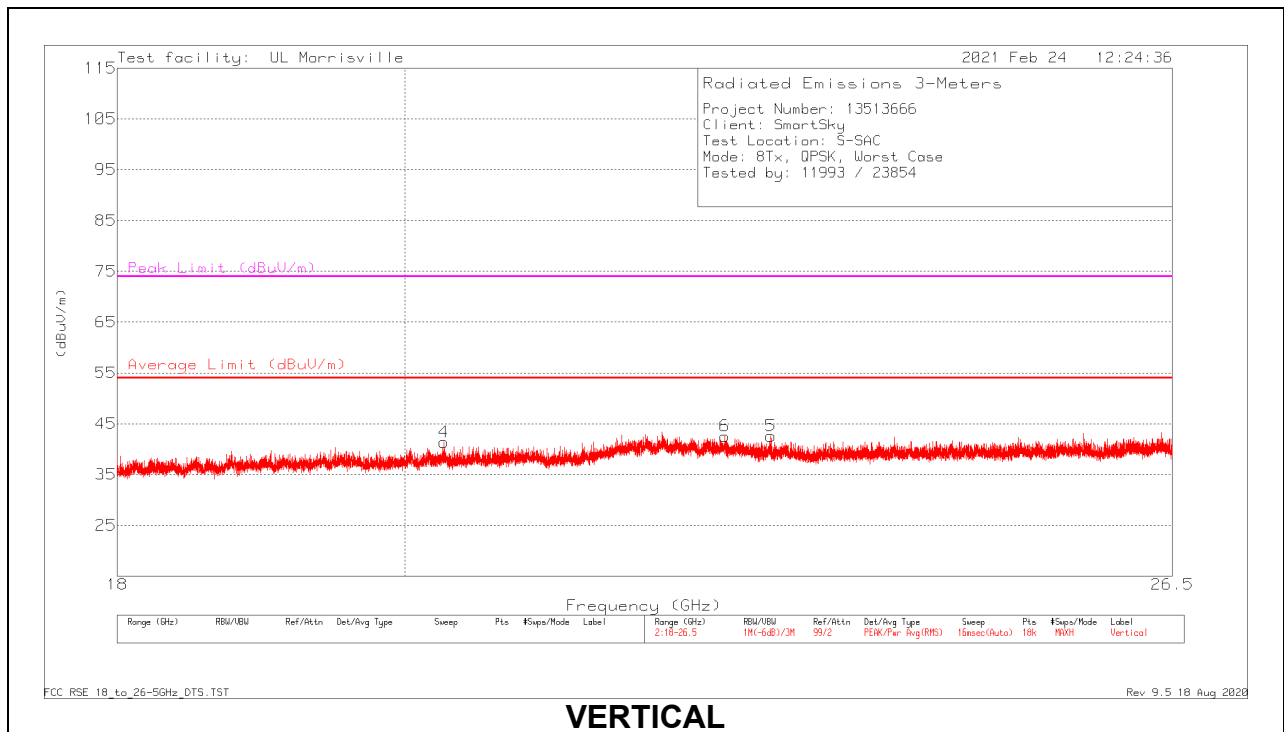
## 12.9. WORST-CASE ABOVE 18 GHz – FRB CONFIGURATION

### 12.9.1. WORST-CASE BANDWIDTH, 4.5 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 22.24031	45.27	Pk	36.6	-38.9	42.97	54	-11.03	74	-31.03	0-360	300	H
2	*** 22.05047	45.25	Pk	36.9	-39.3	42.85	54	-11.15	74	-31.15	0-360	199	H
3	*** 20.63137	46.02	Pk	34	-39.1	40.92	54	-13.08	74	-33.08	0-360	149	H
4	*** 20.28899	46.08	Pk	33.9	-38.6	41.38	54	-12.62	74	-32.62	0-360	101	V
5	*** 22.87407	45.99	Pk	35.4	-38.8	42.59	54	-11.41	74	-31.41	0-360	101	V
6	*** 22.48966	44.97	Pk	36.4	-38.8	42.57	54	-11.43	74	-31.43	0-360	300	V

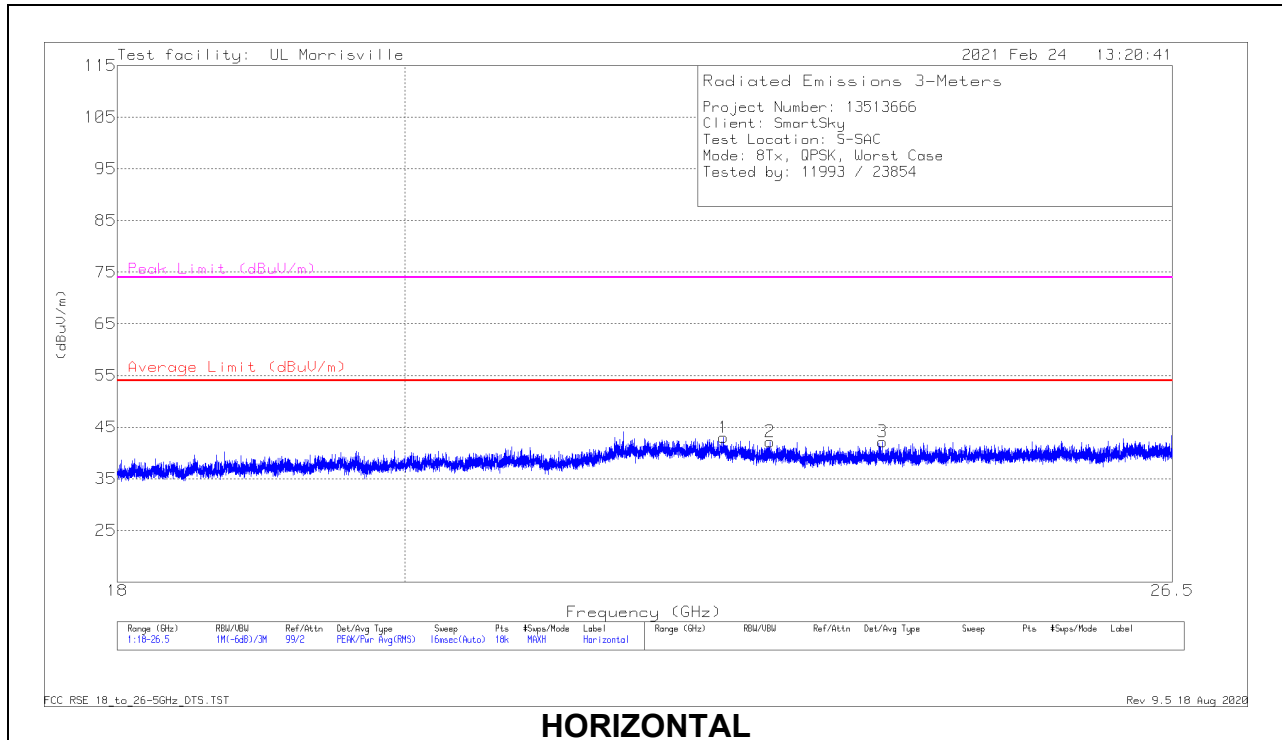
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

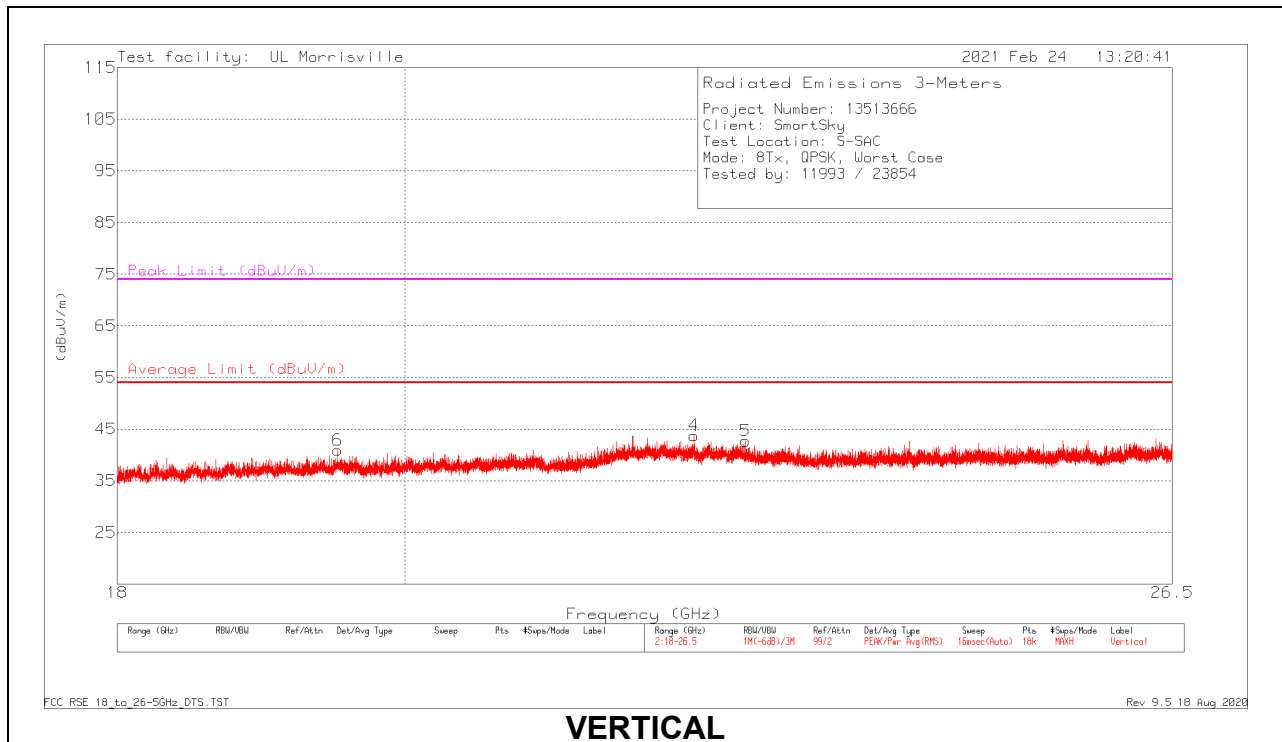
Pk - Peak detector

### 12.9.2. WORST-CASE BANDWIDTH, 4.5 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 22.4788	45.47	Pk	36.4	-38.9	42.97	54	-11.03	74	-31.03	0-360	149	H
2	*** 22.86746	45.48	Pk	35.4	-38.7	42.18	54	-11.82	74	-31.82	0-360	101	H
3	*** 23.83085	46.07	Pk	34.8	-38.7	42.17	54	-11.83	74	-31.83	0-360	300	H
4	*** 22.23748	46.04	Pk	36.6	-38.9	43.74	54	-10.26	74	-30.26	0-360	300	V
5	*** 22.66298	45.82	Pk	36	-39.1	42.72	54	-11.28	74	-31.28	0-360	150	V
6	*** 19.51592	46.4	Pk	33.5	-39	40.9	54	-13.1	74	-33.1	0-360	300	V

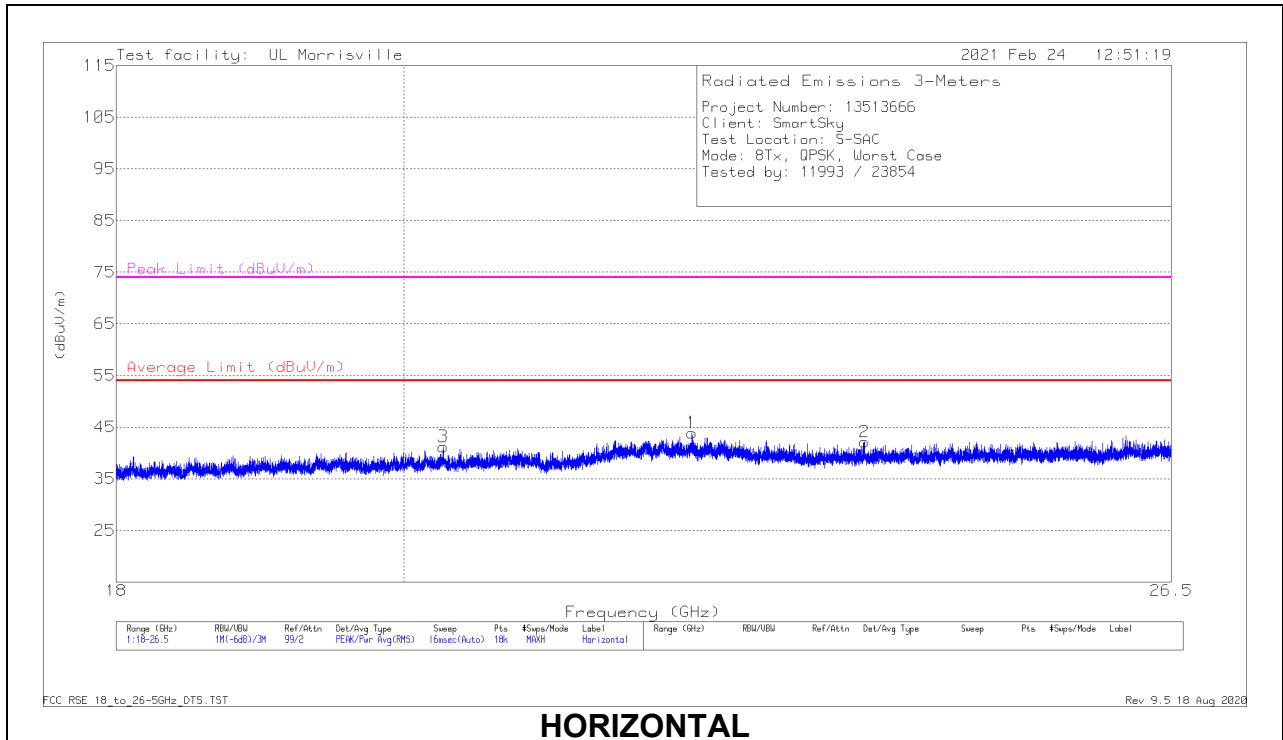
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

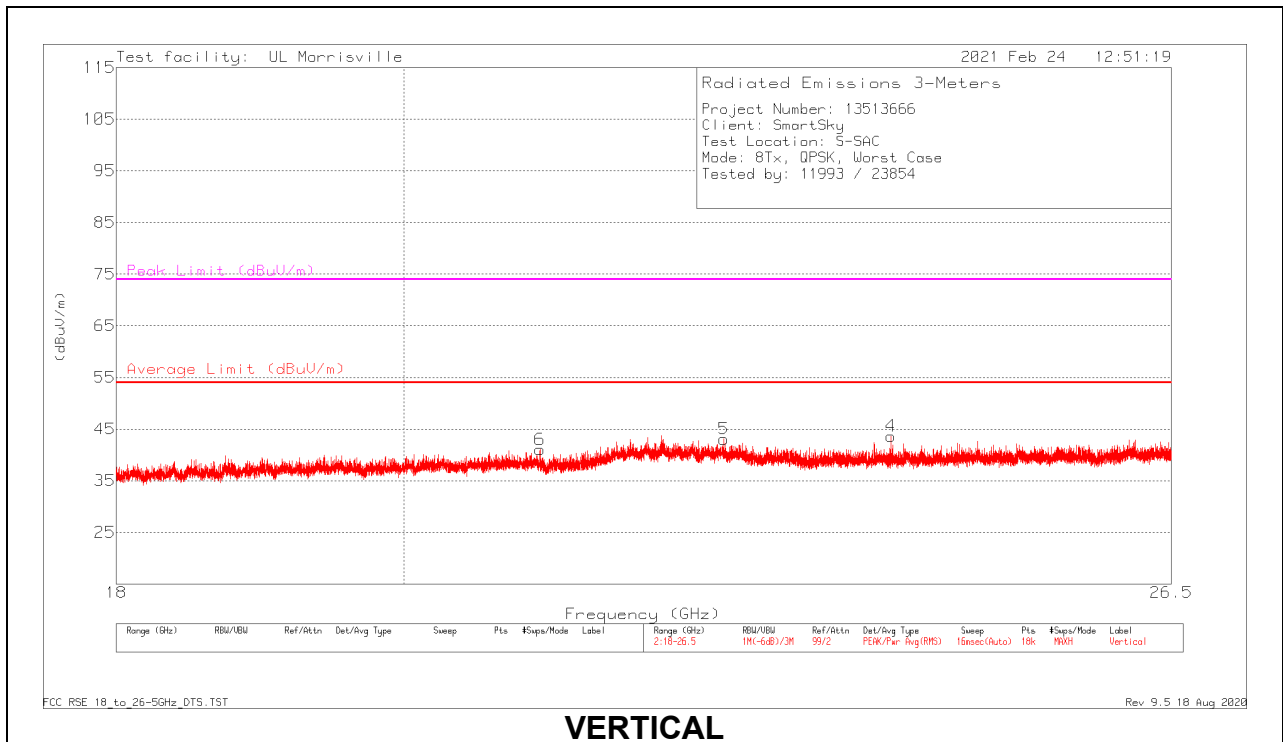
Pk - Peak detector

### 12.9.3. WORST-CASE BANDWIDTH, 9 MHz QPSK MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 22.22993	46.18	Pk	36.6	-38.9	43.88	54	-10.12	74	-30.12	0-360	101	H
2	*** 23.68114	45.73	Pk	34.9	-38.5	42.13	54	-11.87	74	-31.87	0-360	101	H
3	*** 20.29229	45.92	Pk	33.9	-38.6	41.22	54	-12.78	74	-32.78	0-360	300	H
4	*** 23.9116	47.24	Pk	34.9	-38.5	43.64	54	-10.36	74	-30.36	0-360	101	V
5	*** 22.4925	45.48	Pk	36.4	-38.8	43.08	54	-10.92	74	-30.92	0-360	200	V
6	*** 21.02522	46.14	Pk	34.3	-39.4	41.04	54	-12.96	74	-32.96	0-360	250	V

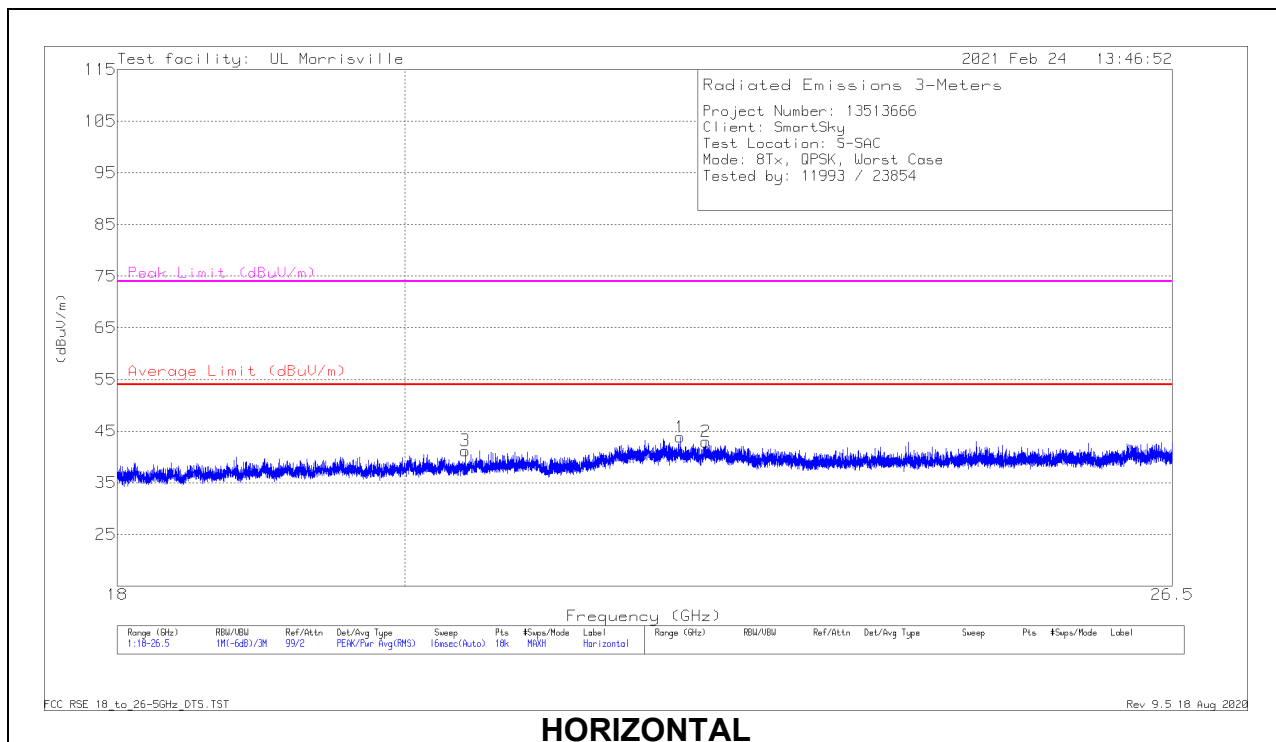
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

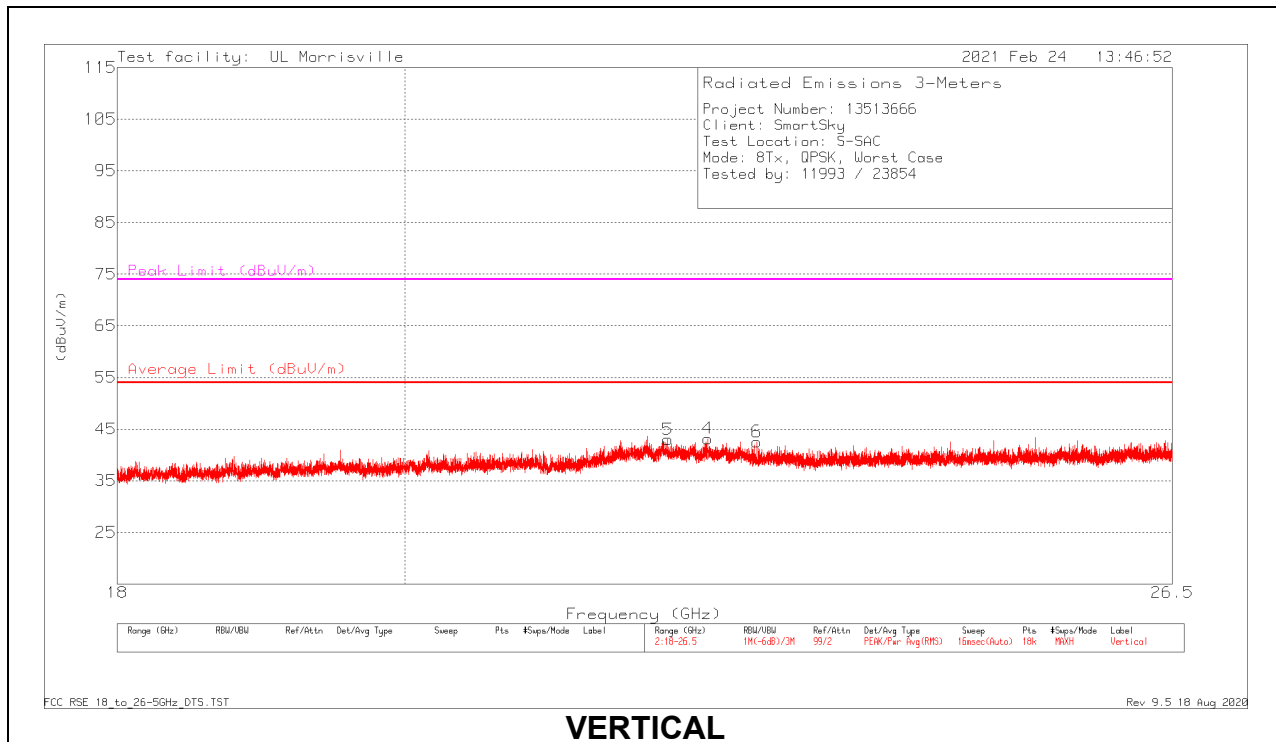
Pk - Peak detector

### 12.9.4. WORST-CASE BANDWIDTH, 9 MHz 16-QAM MODE

#### SPURIOUS EMISSIONS (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (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	*** 22.12745	46.14	Pk	36.7	-39	43.84	54	-10.16	74	-30.16	0-360	249	H
2	*** 22.33524	45.75	Pk	36.5	-39.3	42.95	54	-11.05	74	-31.05	0-360	249	H
3	*** 20.45049	46.29	Pk	34	-39.1	41.19	54	-12.81	74	-32.81	0-360	300	H
4	*** 22.3494	45.68	Pk	36.5	-39	43.18	54	-10.82	74	-30.82	0-360	101	V
5	*** 22.02639	45.18	Pk	37	-39.2	42.98	54	-11.02	74	-31.02	0-360	150	V
6	*** 22.75648	45.63	Pk	35.7	-38.8	42.53	54	-11.47	74	-31.47	0-360	150	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector



### 13. 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 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.