

9.3.3. 802.11ax HE80 MODE 2TX IN THE 5.2GHz BAND

2TX 996T MODE

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	0.18	3.18	24.00	11.00

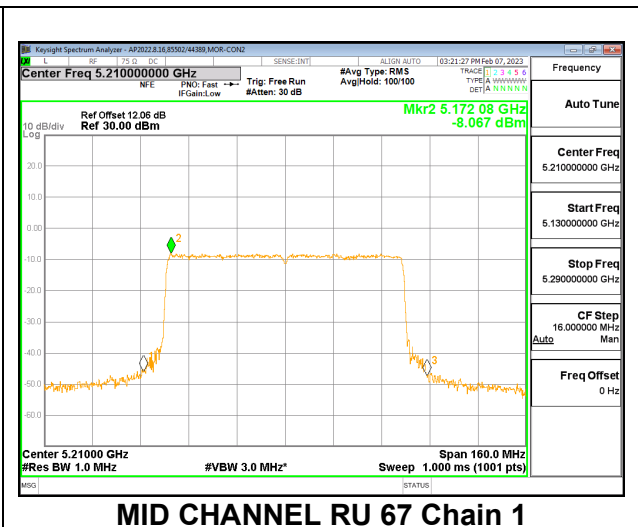
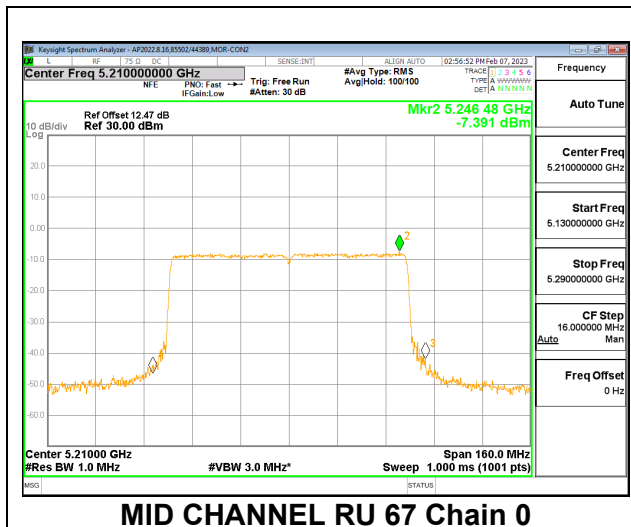
Duty Cycle CF (dB)	0.80	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	11.09	11.00	14.06	24.00	-9.94

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-7.39	-8.07	-3.91	11.00	-14.91



9.3.4. 802.11ax HE20 MODE 2TX IN THE 5.3GHz BAND

2TX 26T MODE

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	20.40	0.18	3.18	24.00	11.00
Mid	5300	18.40	0.18	3.18	23.65	11.00
High	5320	20.16	0.18	3.18	24.00	11.00

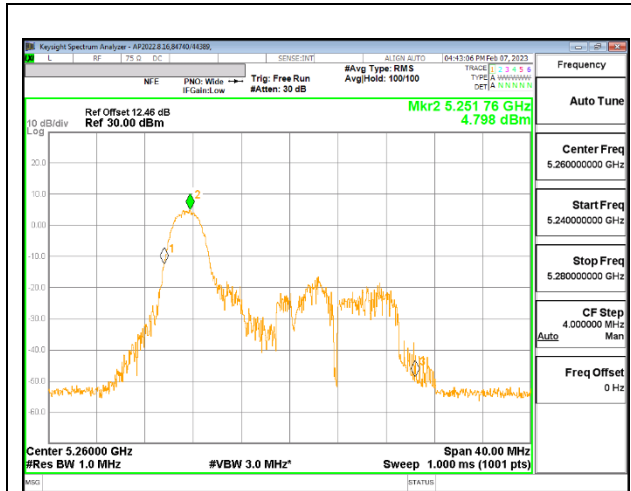
Duty Cycle CF (dB)	0.47	Included in Calculations of Corr'd PSD
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Output Power Results

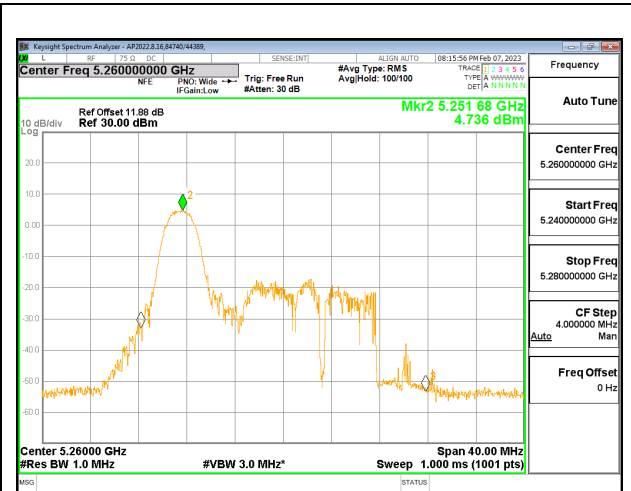
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	8.48	8.37	11.44	24.00	-12.56
Mid	5300	7.94	7.82	10.89	23.65	-12.76
High	5320	8.67	8.48	11.59	24.00	-12.41

PSD Results

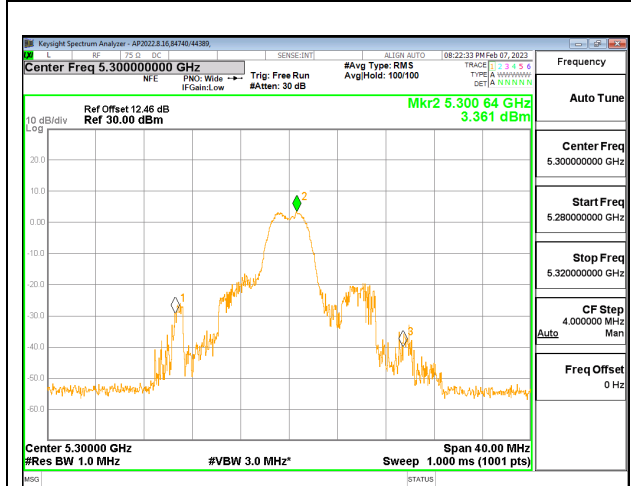
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	4.80	4.74	8.25	11.00	-2.75
Mid	5300	3.36	3.32	6.82	11.00	-4.18
High	5320	4.61	4.46	8.01	11.00	-2.99



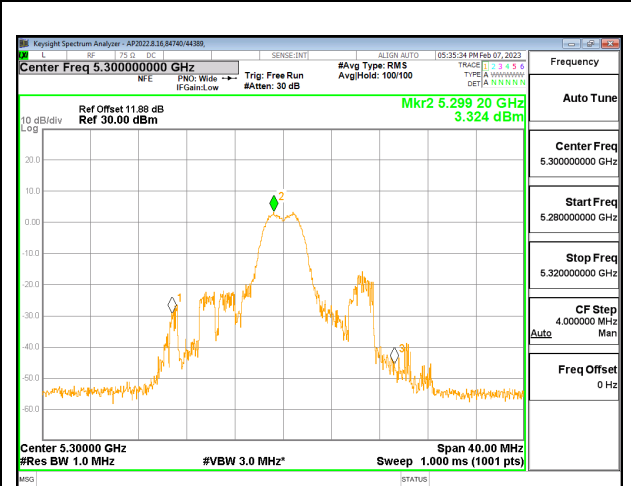
LOW CHANNEL RU 0 Chain 0



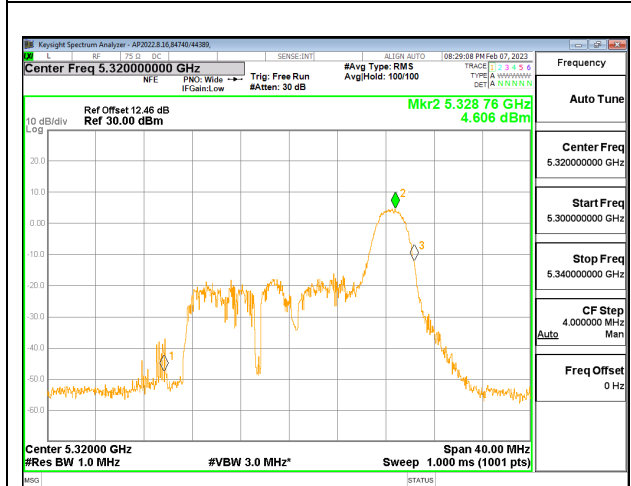
LOW CHANNEL RU 0 Chain 1



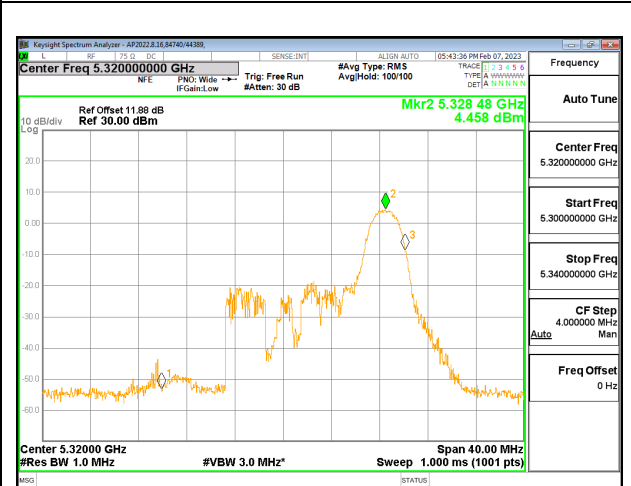
MID CHANNEL RU 4 Chain 0



MID CHANNEL RU 4 Chain 1



HIGH CHANNEL RU 8 Chain 0



HIGH CHANNEL RU 8 Chain 1

2TX 52T MODE

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	20.44	0.18	3.18	24.00	11.00
Mid	5300	18.76	0.18	3.18	23.73	11.00
High	5320	20.52	0.18	3.18	24.00	11.00

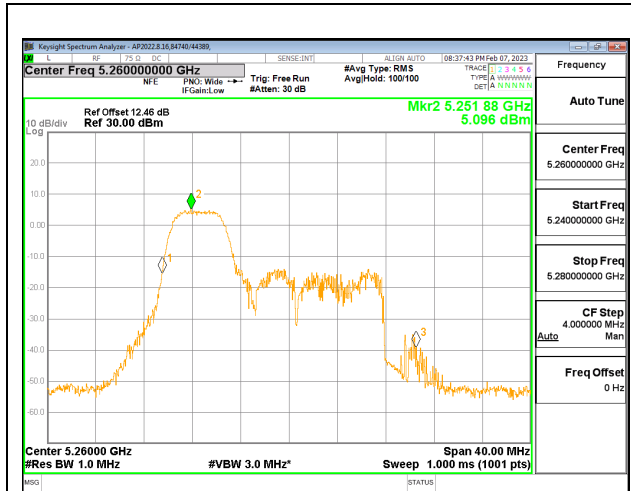
Duty Cycle CF (dB)	0.49	Included in Calculations of Corr'd PSD
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Output Power Results

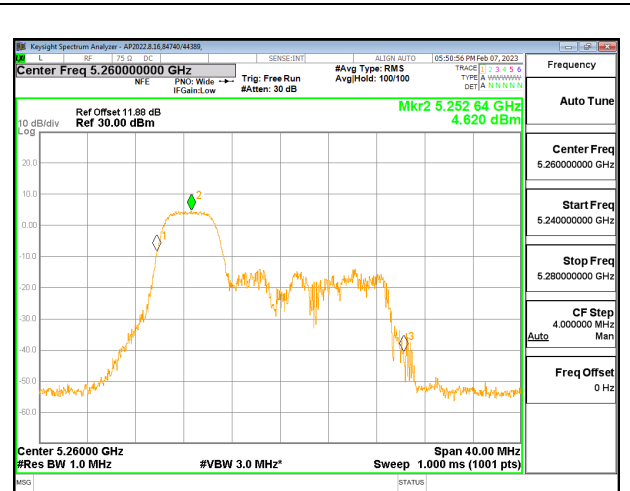
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.15	10.86	14.02	24.00	-9.98
Mid	5300	10.70	10.54	13.63	23.73	-10.10
High	5320	11.11	10.98	14.06	24.00	-9.94

PSD Results

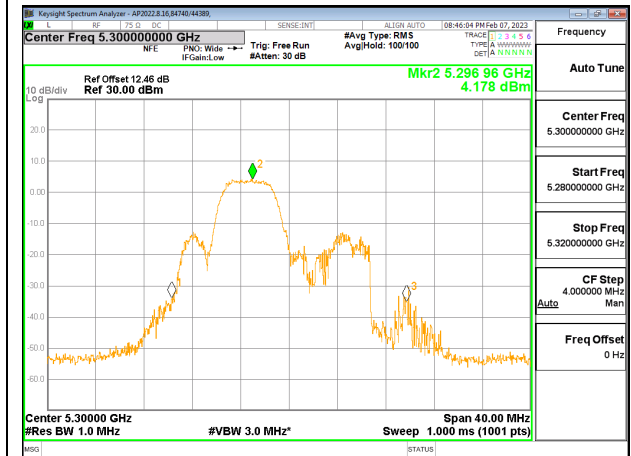
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	5.10	4.62	8.36	11.00	-2.64
Mid	5300	4.18	3.95	7.57	11.00	-3.43
High	5320	4.24	4.26	7.75	11.00	-3.25



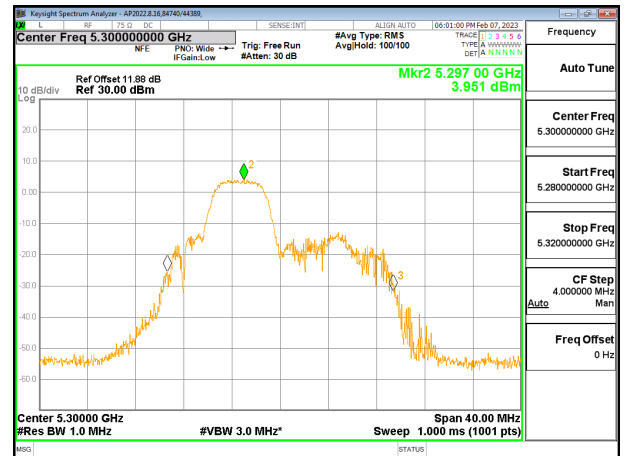
LOW CHANNEL RU 37 Chain 0



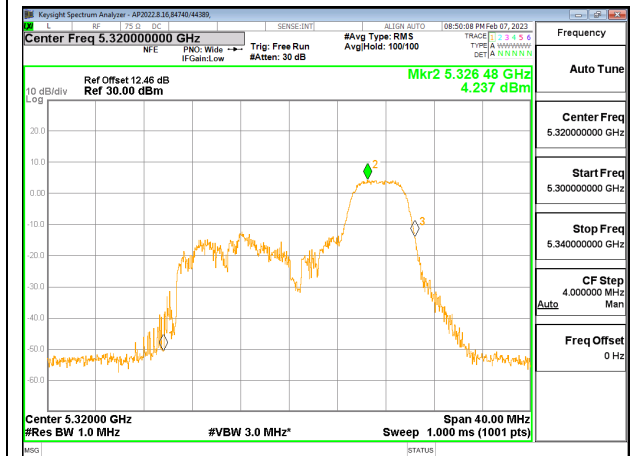
LOW CHANNEL RU 37 Chain 1



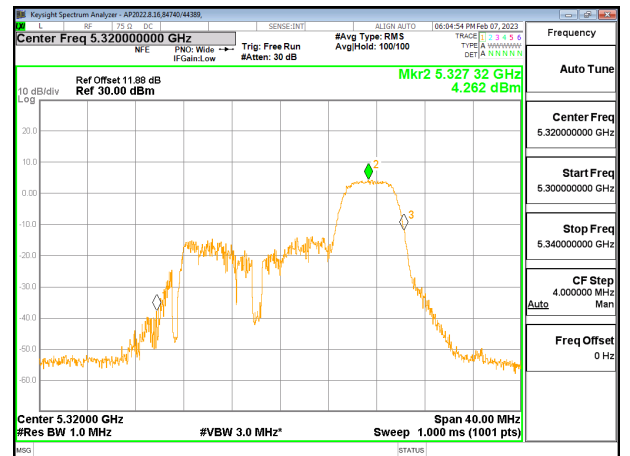
MID CHANNEL RU 38 Chain 0



MID CHANNEL RU 38 Chain 1



HIGH CHANNEL RU 40 Chain 0



HIGH CHANNEL RU 40 Chain 1

2TX 106T MODE

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	21.64	0.18	3.18	24.00	11.00
Mid	5300	21.60	0.18	3.18	24.00	11.00
High	5320	21.20	0.18	3.18	24.00	11.00

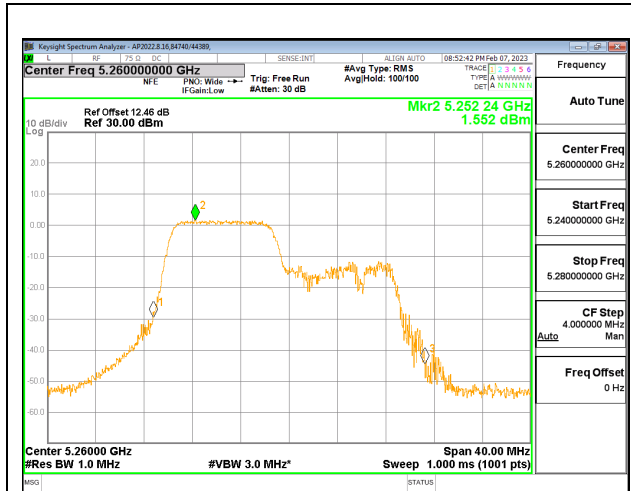
Duty Cycle CF (dB)	0.53	Included in Calculations of Corr'd PSD
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Output Power Results

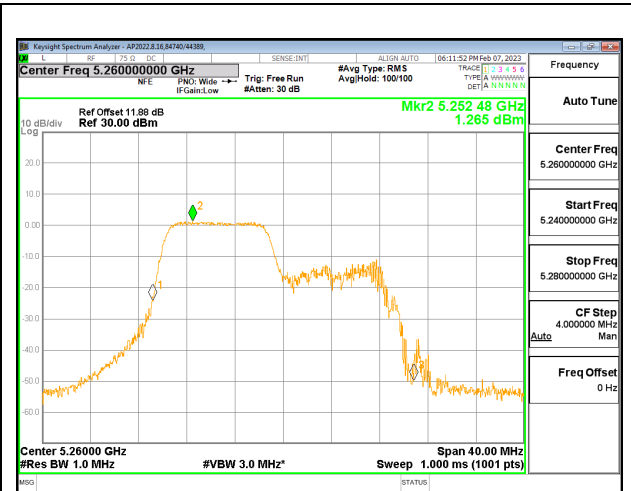
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.13	10.60	13.88	24.00	-10.12
Mid	5300	10.71	10.62	13.68	24.00	-10.32
High	5320	10.82	10.97	13.91	24.00	-10.09

PSD Results

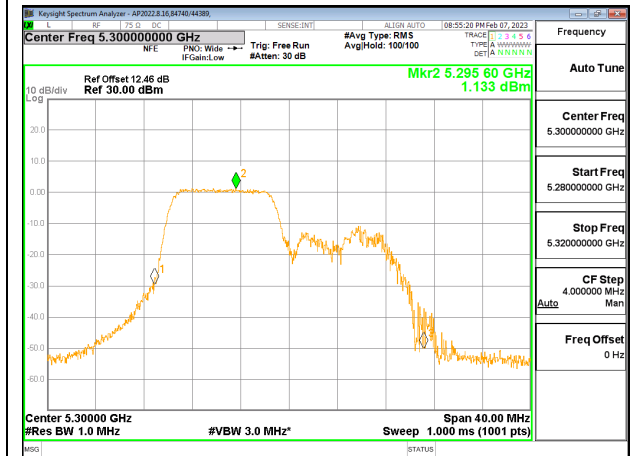
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	1.55	1.27	4.95	11.00	-6.05
Mid	5300	1.13	1.04	4.62	11.00	-6.38
High	5320	1.39	1.15	4.81	11.00	-6.19



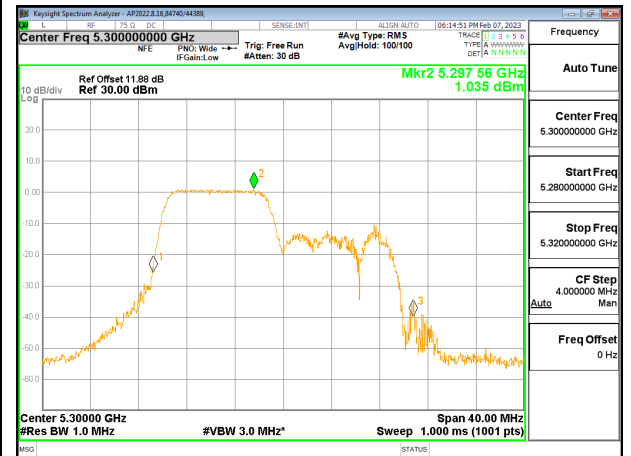
LOW CHANNEL RU 53 Chain 0



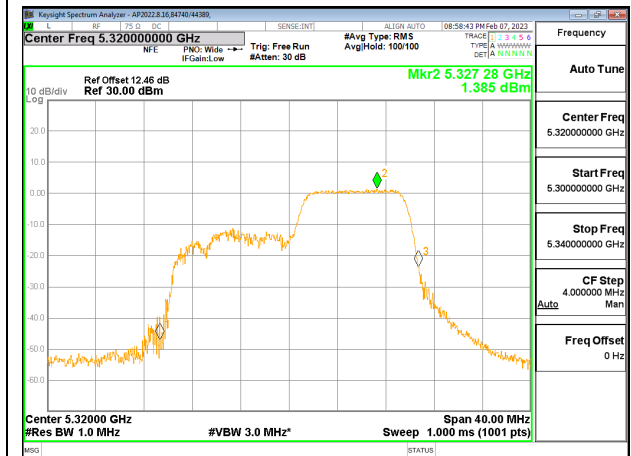
LOW CHANNEL RU 53 Chain 1



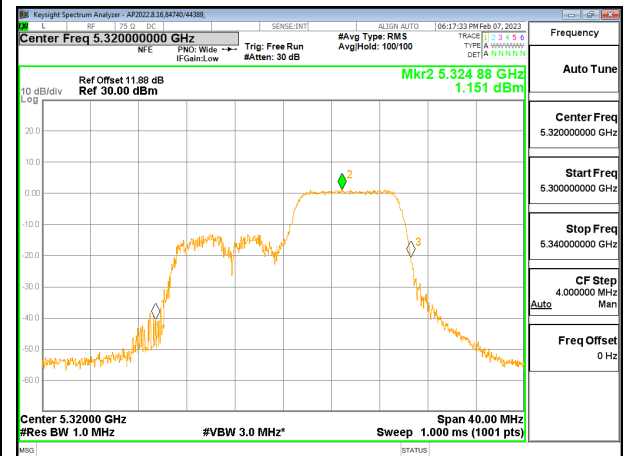
MID CHANNEL RU 53 Chain 0



MID CHANNEL RU 53 Chain 1



HIGH CHANNEL RU 54 Chain 0



HIGH CHANNEL RU 54 Chain 1

2TX 242T MODE

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	23.20	0.18	3.18	24.00	11.00
Mid	5300	23.16	0.18	3.18	24.00	11.00
High	5320	23.16	0.18	3.18	24.00	11.00

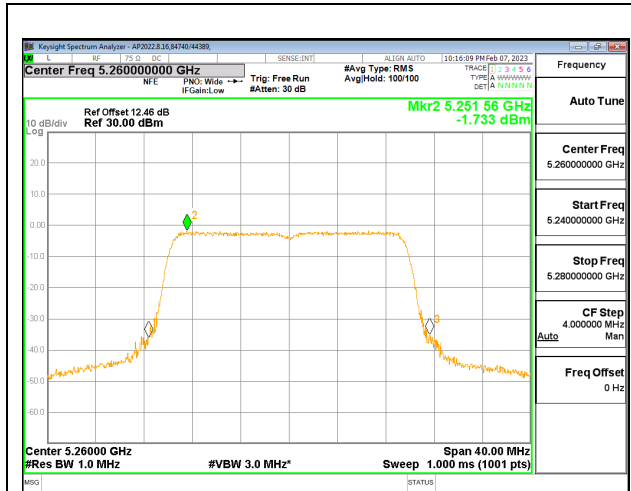
Duty Cycle CF (dB)	0.51	Included in Calculations of Corr'd PSD
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Output Power Results

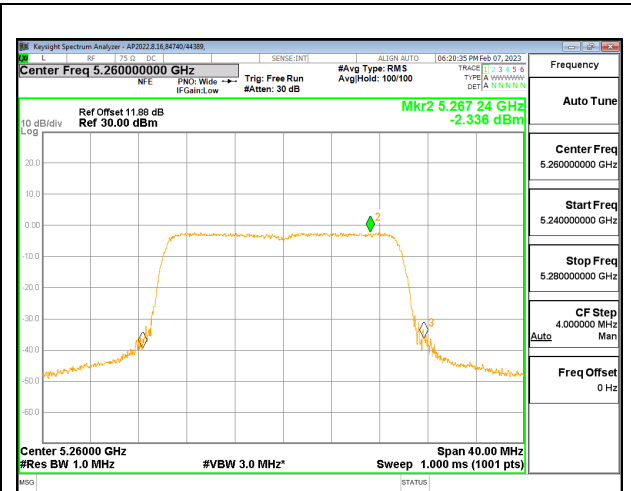
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.03	10.44	13.76	24.00	-10.24
Mid	5300	10.67	10.41	13.55	24.00	-10.45
High	5320	10.70	10.74	13.73	24.00	-10.27

PSD Results

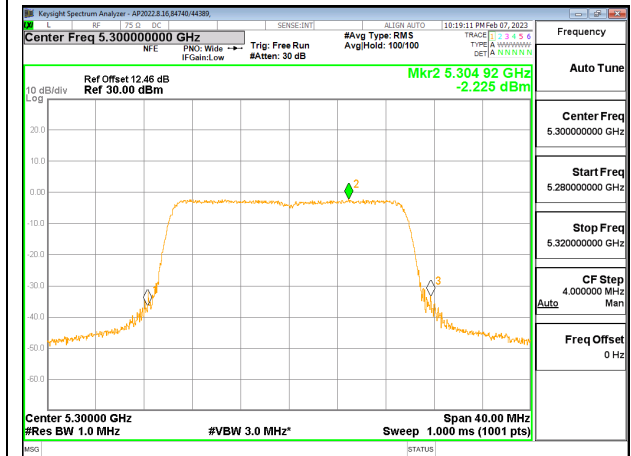
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	-1.73	-2.34	1.50	11.00	-9.50
Mid	5300	-2.23	-2.39	1.21	11.00	-9.79
High	5320	-2.25	-2.14	1.33	11.00	-9.67



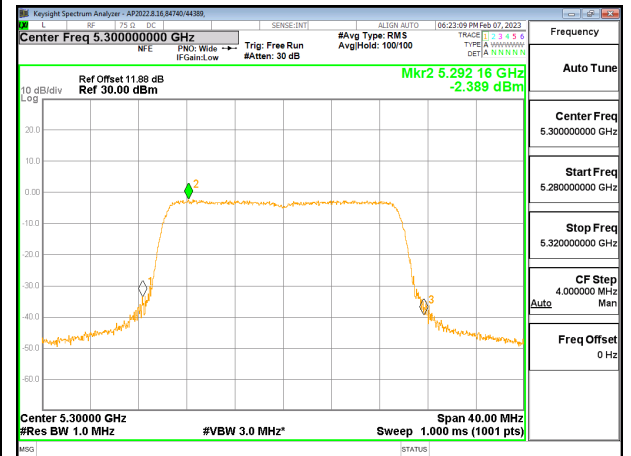
LOW CHANNEL RU 61 Chain 0



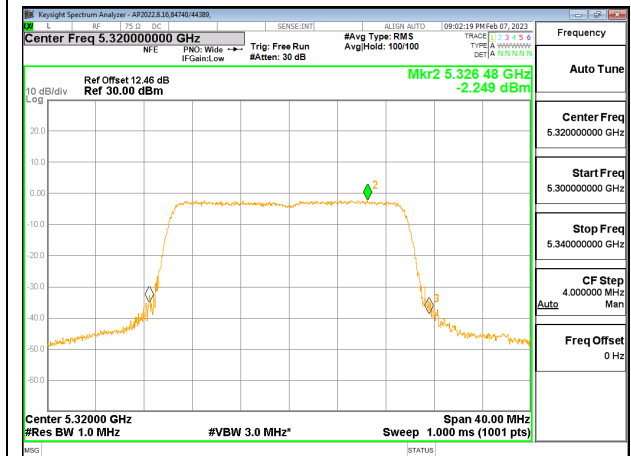
LOW CHANNEL RU 61 Chain 1



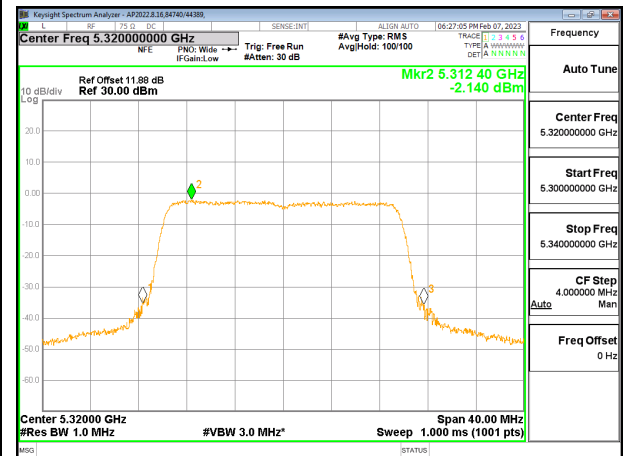
MID CHANNEL RU 61 Chain 0



MID CHANNEL RU 61 Chain 1



HIGH CHANNEL RU 61 Chain 0



HIGH CHANNEL RU 61 Chain 1

9.3.5. 802.11ax HE40 MODE 2TX IN THE 5.3GHz BAND

2TX 484T

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	44.24	0.18	3.18	24.00	11.00
High	5310	44.48	0.18	3.18	24.00	11.00

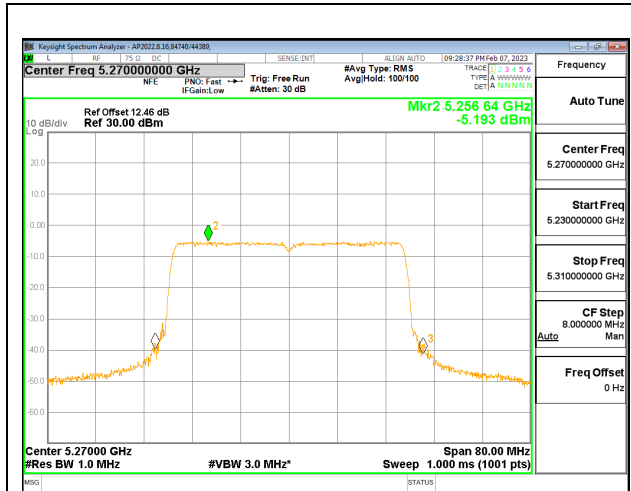
Duty Cycle CF (dB)	0.58	Included in Calculations of Corr'd PSD
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Output Power Results

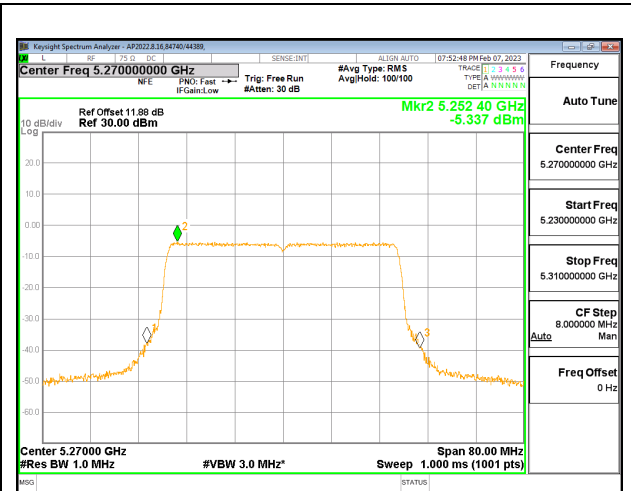
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	10.80	10.47	13.65	24.00	-10.35
High	5310	10.29	10.18	13.25	24.00	-10.75

PSD Results

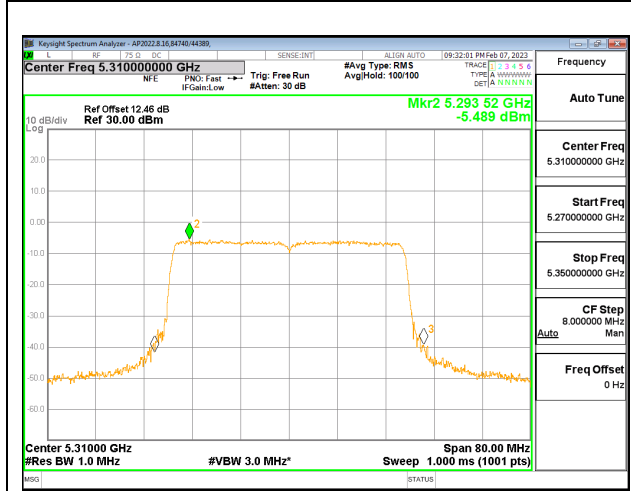
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	-5.19	-5.34	-1.67	11.00	-12.67
High	5310	-5.49	-5.70	-2.00	11.00	-13.00



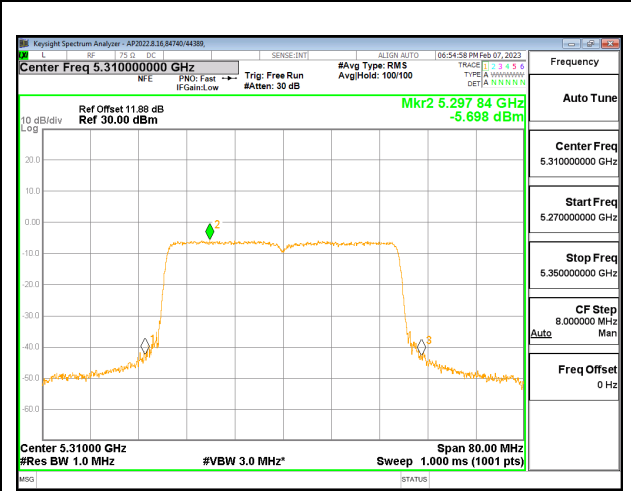
LOW CHANNEL RU 65 Chain 0



LOW CHANNEL RU 65 Chain 1



HIGH CHANNEL RU 65 Chain 0



HIGH CHANNEL RU 65 Chain 1

9.3.6. 802.11ax HE80 MODE 2TX IN THE 5.3GHz BAND

2TX 996T

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5290	90.08	0.18	3.18	24.00	11.00

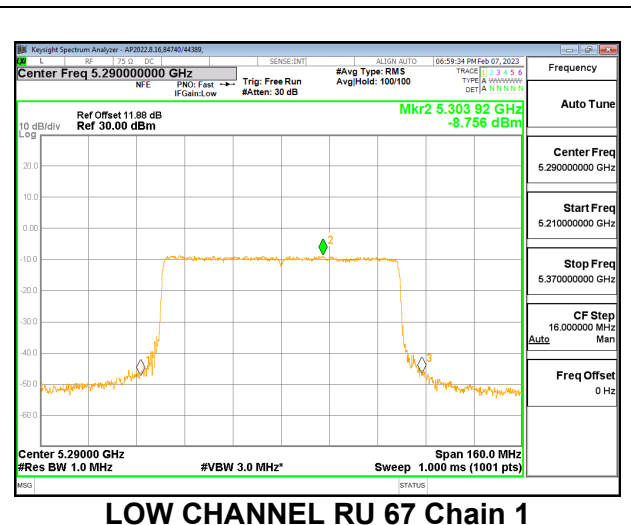
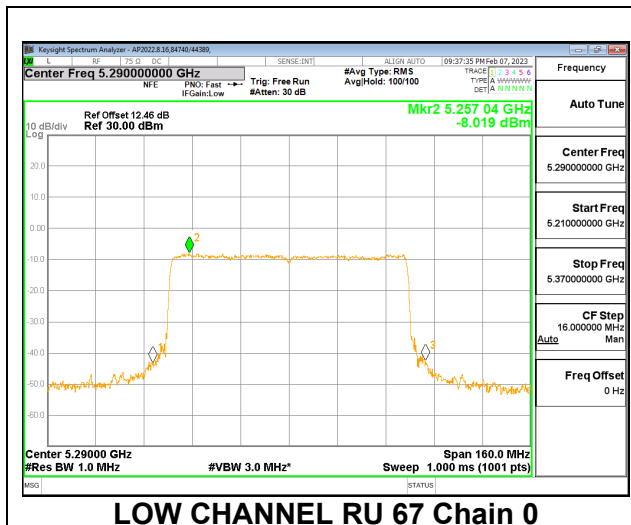
Duty Cycle CF (dB)	0.80	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5290	10.60	10.03	13.33	24.00	-10.67

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5290	-8.02	-8.76	-4.56	11.00	-15.56



9.3.7. 802.11ax HE160 MODE 2TX IN THE 5.2GHz & 5.3GHz BAND

2TX 2x996T MODE

Test Engineer:	84740/44389, 85502/44389
Test Date:	2023-02-02 to 2023-02-07

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	179.52	0.18	3.18	24.00	11.00

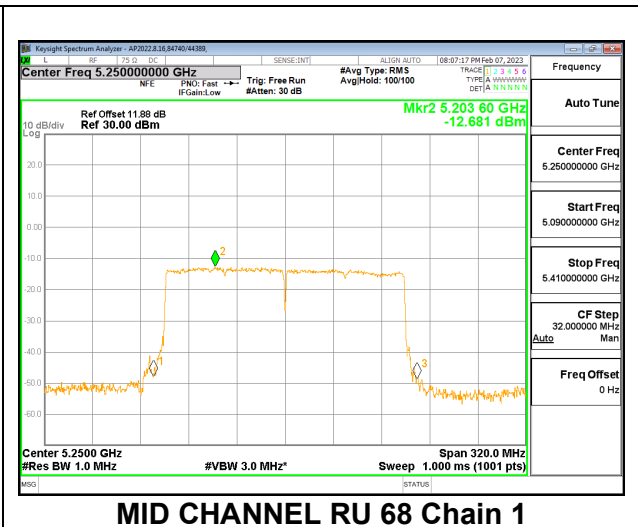
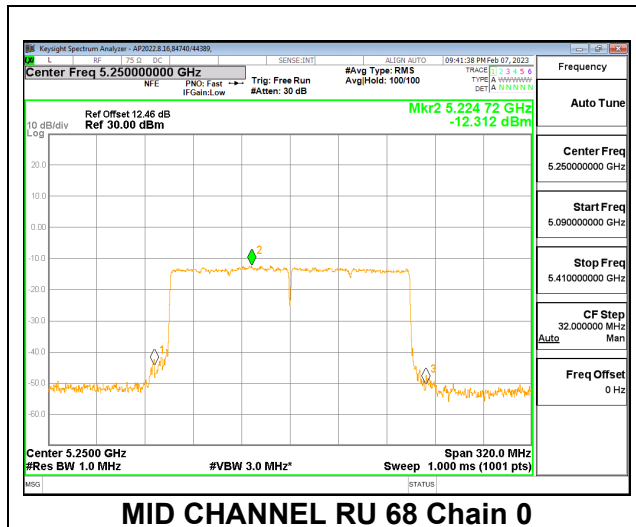
Duty Cycle CF (dB)	0.86	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	8.69	8.39	11.55	24.00	-12.45

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-12.312	-12.681	-8.62	11.00	-19.62



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 - Restricted bands

FCC §15.407(b)(1-2) - Unrestricted bands

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

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.

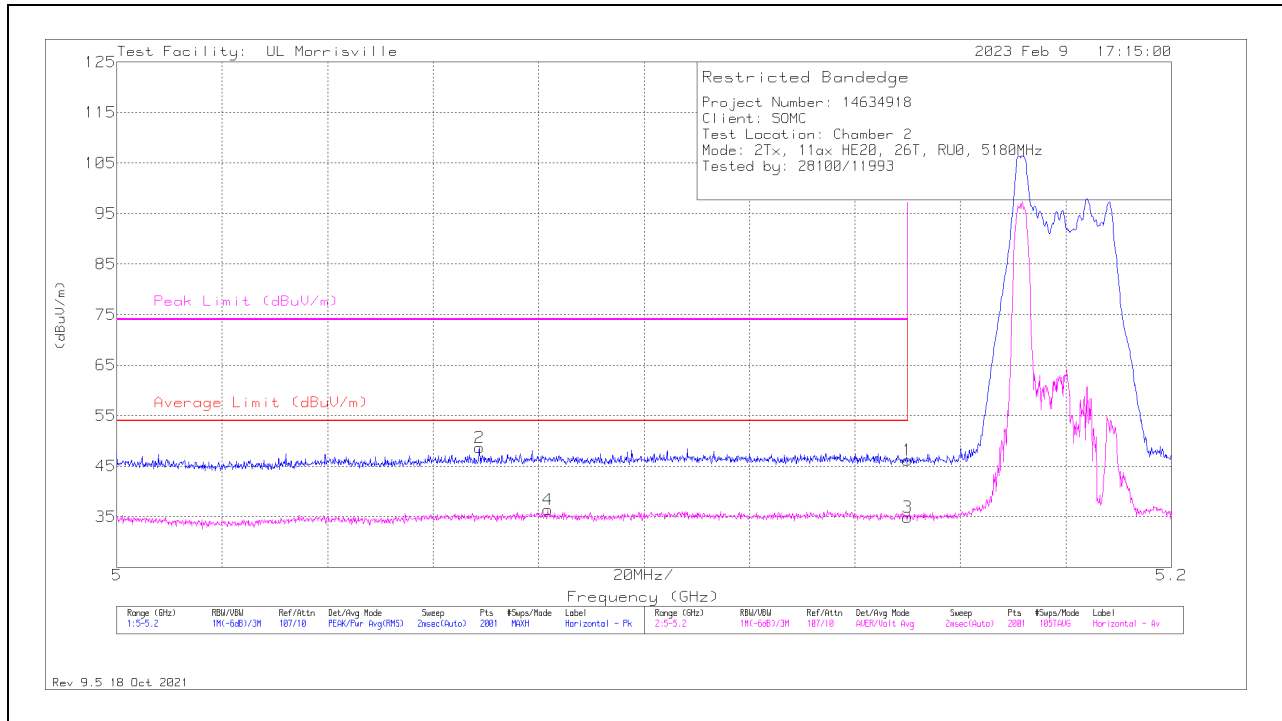
10.1. TRANSMITTER 1-18GHz

10.1.1. 802.11ax HE20 MODE IN THE 5.2GHz BAND

2TX 26T MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	34.63	Pk	34.2	-22.6	0	46.23	-	-	74	-27.77	342	111	H
2	*** 5.0688	36.95	Pk	34.1	-22.4	0	48.65	-	-	74	-25.35	342	111	H
3	*** 5.15	22.87	ADV	34.2	-22.6	.47	34.94	54	-19.06	-	-	342	111	H
4	*** 5.0817	24.05	ADV	34.1	-22.2	.47	36.42	54	-17.58	-	-	342	111	H

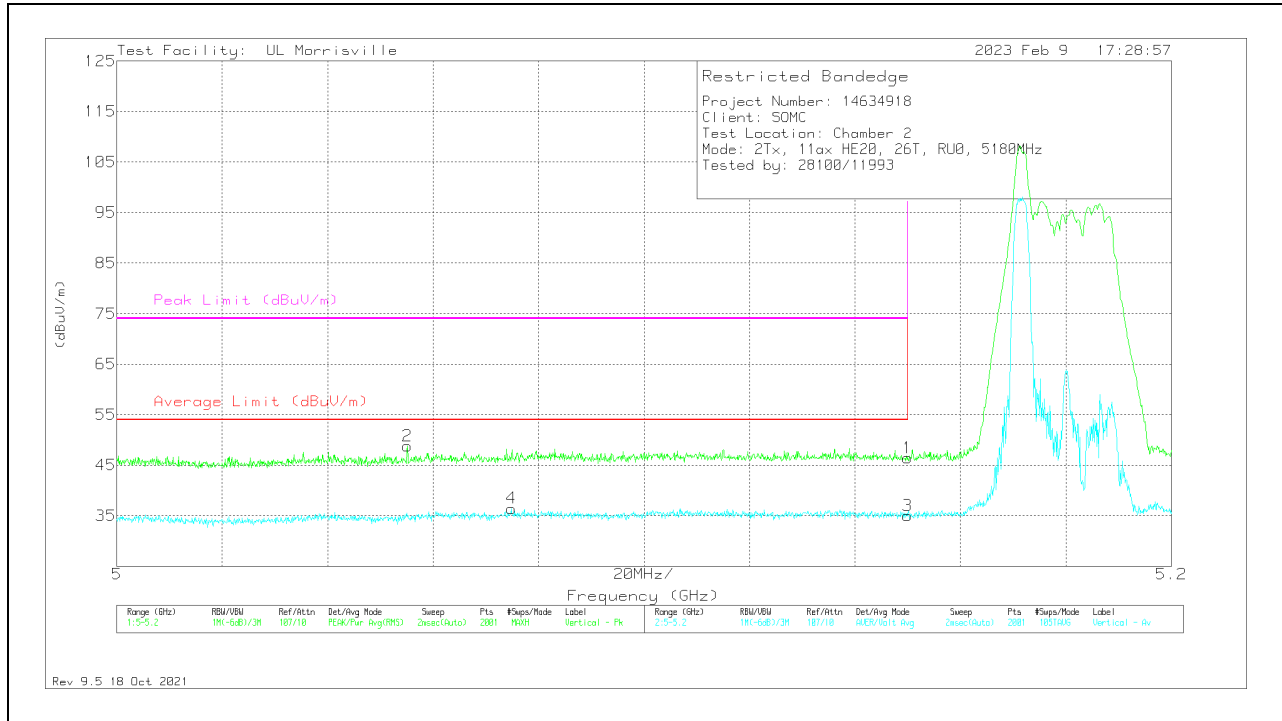
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

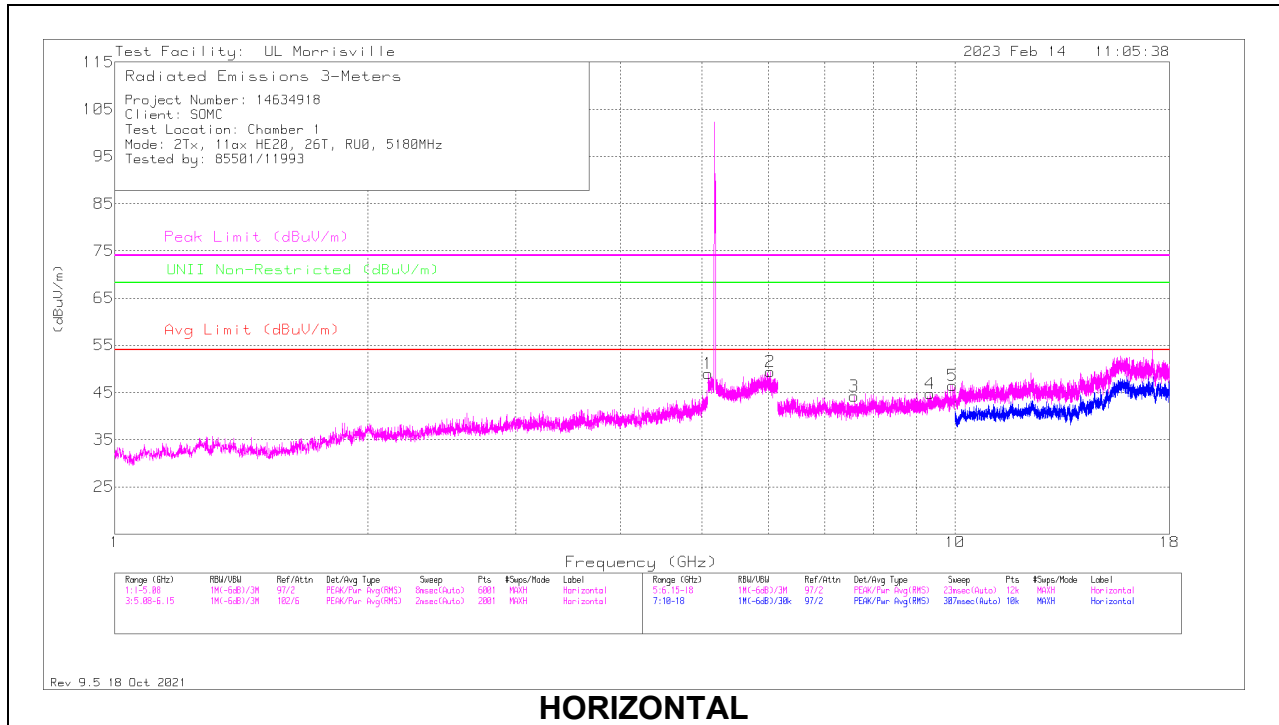


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	34.84	Pk	34.2	-22.6	0	46.44	-	-	74	-27.56	311	103	V
2	** * 5.0551	37.33	Pk	34.1	-22.6	0	48.83	-	-	74	-25.17	311	103	V
3	** * 5.15	22.98	ADV	34.2	-22.6	.47	35.05	54	-18.95	-	-	311	103	V
4	** * 5.0748	24.28	ADV	34.1	-22.4	.47	36.45	54	-17.55	-	-	311	103	V

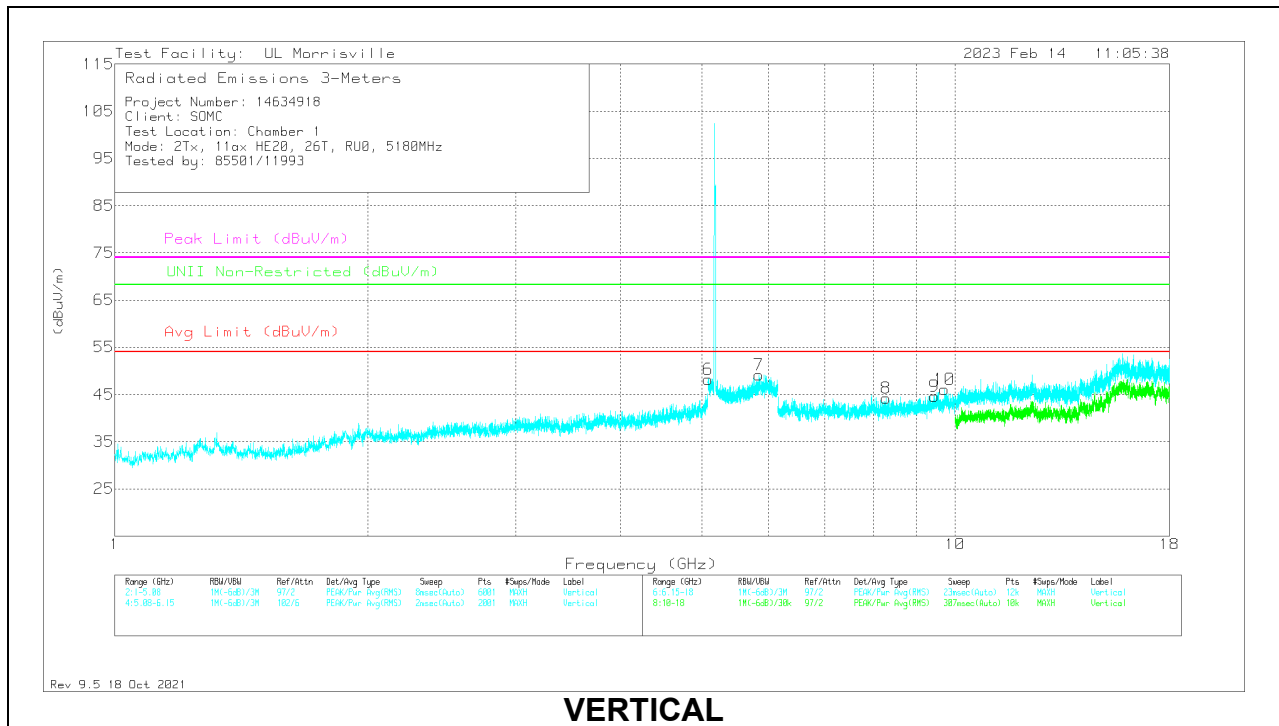
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV -Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



HORIZONTAL



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.08955	37.69	PK-U	34.2	-21.9	0	49.99	-	-	74	-24.01	-	-	139	276	H
	* ** 5.08739	24.57	ADV	34.2	-21.8	.47	37.44	54	-16.56	-	-	-	-	139	276	H
6	* ** 5.0899	37.35	PK-U	34.2	-21.9	0	49.65	-	-	74	-24.35	-	-	63	213	V
	* ** 5.08823	24.68	ADV	34.2	-21.8	.47	37.55	54	-16.45	-	-	-	-	63	213	V
3	* ** 7.59175	38.36	PK	35.7	-29.9	0	44.16	54	-9.84	74	-29.84	-	-	0-360	199	H
4	* ** 9.33271	37.49	PK	36.5	-29.2	0	44.79	54	-9.21	74	-29.21	-	-	0-360	101	H
8	* ** 8.28103	37.45	PK	35.8	-29.1	0	44.15	54	-9.85	74	-29.85	-	-	0-360	101	V
9	* ** 9.44628	37.25	PK	36.6	-29.2	0	44.65	54	-9.35	74	-29.35	-	-	0-360	199	V
7	5.84559	35.68	PK	34.9	-21.4	0	49.18	-	-	-	-	68.2	-19.02	0-360	101	V
2	6.02909	35.74	PK	35.1	-21.4	0	49.44	-	-	-	-	68.2	-18.76	0-360	200	H
10	9.72179	38.01	PK	36.8	-28.7	0	46.11	-	-	-	-	68.2	-22.09	0-360	199	V
5	9.93311	37.38	PK	37	-27.9	0	46.48	-	-	-	-	68.2	-21.72	0-360	199	H

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

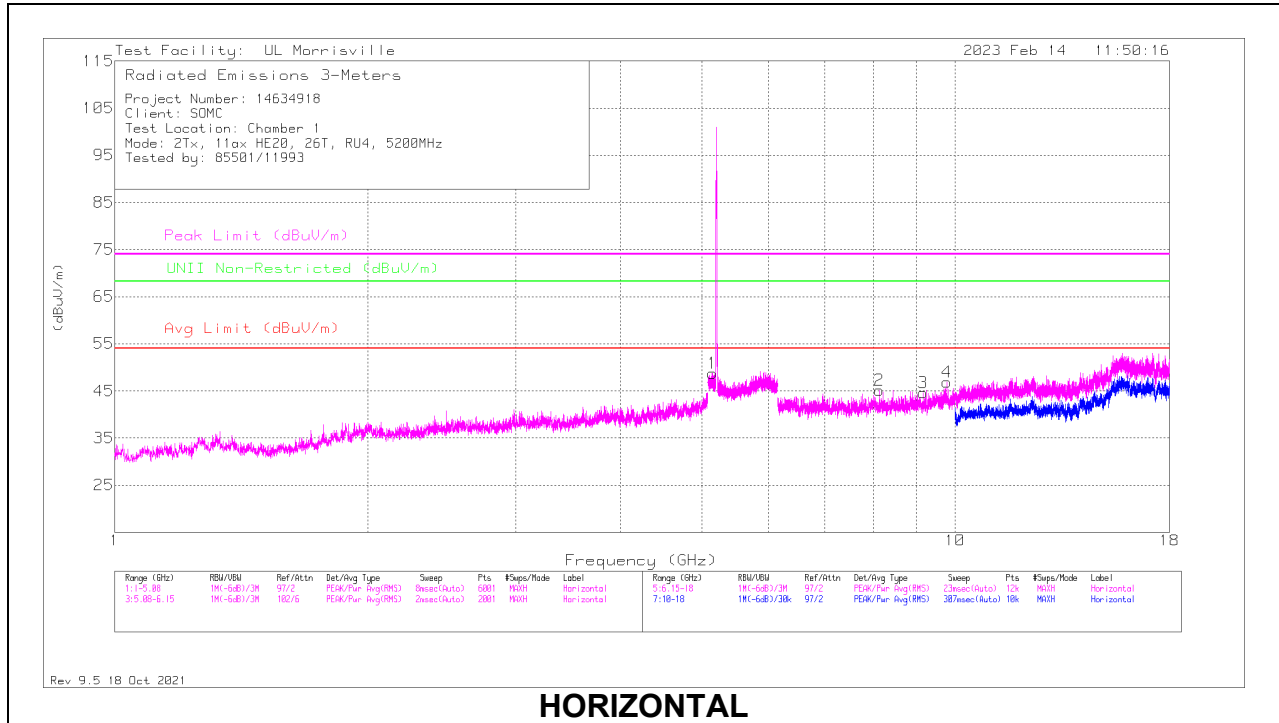
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK - Peak detector

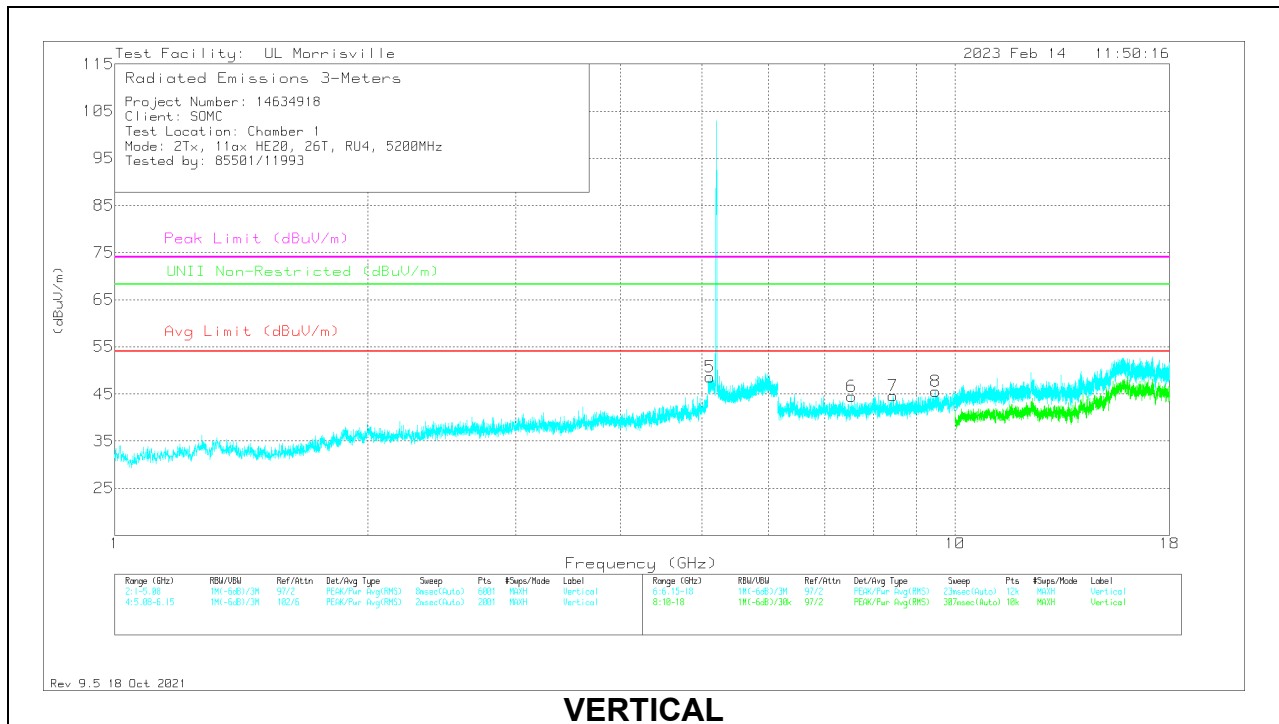
PK-U - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL



HORIZONTAL

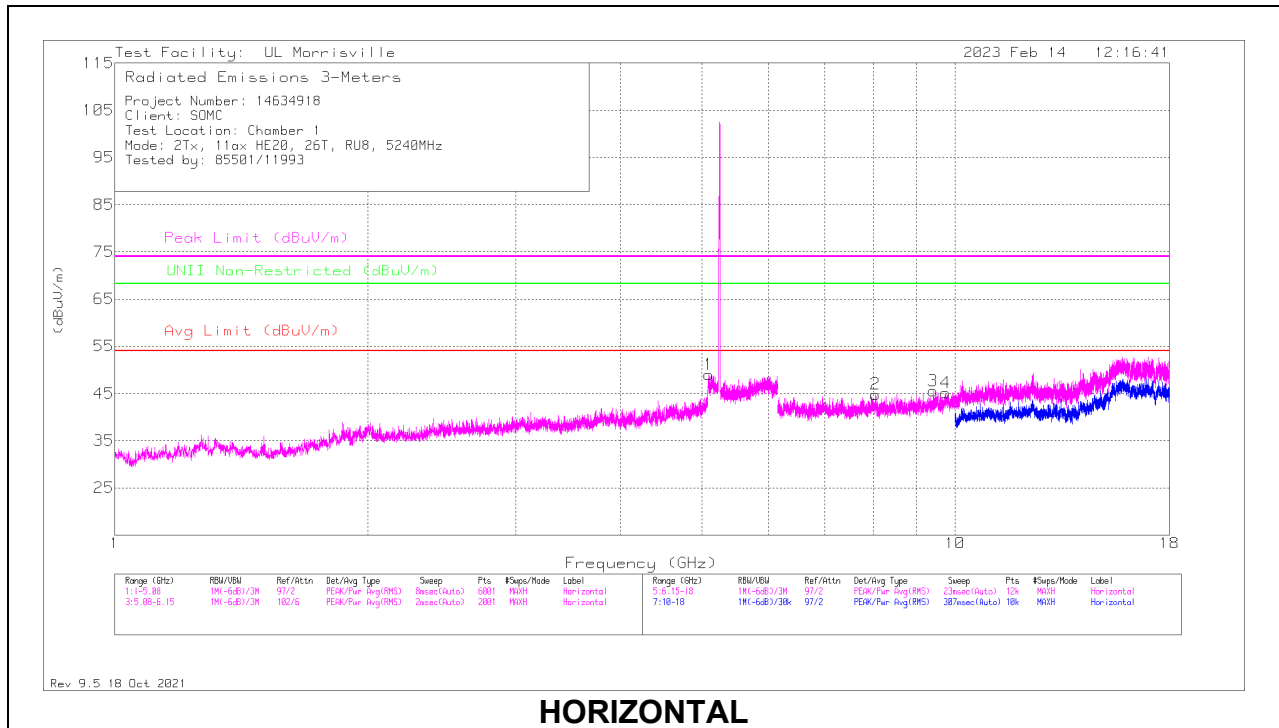


VERTICAL

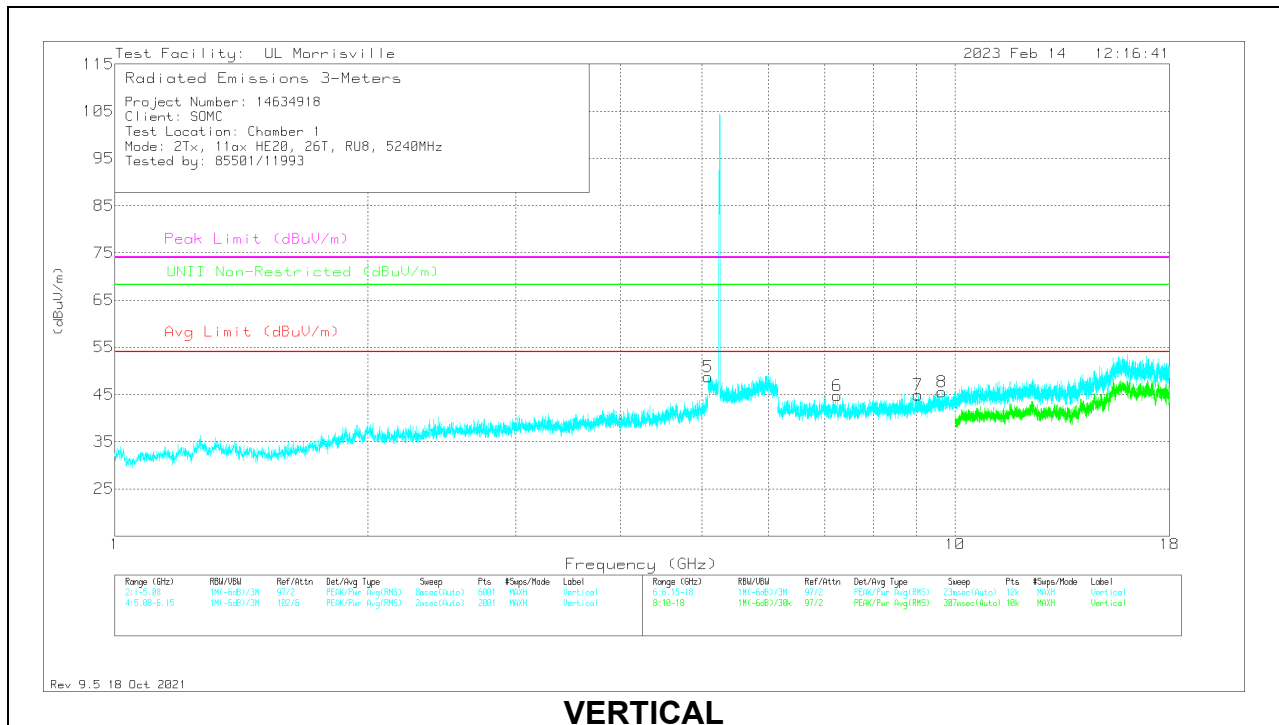
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14709	37.43	PK-U	34.3	-21.7	0	50.03	-	-	74	-23.97	-	-	262	138	H
	* ** 5.14493	24.54	ADV	34.3	-21.5	.47	37.81	54	-16.19	-	-	-	-	262	138	H
5	* ** 5.10954	37.45	PK-U	34.2	-22.1	0	49.55	-	-	74	-24.45	-	-	291	230	V
	* ** 5.11155	24.44	ADV	34.2	-22	.47	37.11	54	-16.89	-	-	-	-	291	230	V
2	* ** 8.12303	39.46	PK	35.8	-30.1	0	45.16	54	-8.84	74	-28.84	-	-	0-360	101	H
3	* ** 9.17076	36.5	PK	36.3	-28.2	0	44.6	54	-9.4	74	-29.4	-	-	0-360	101	H
6	* ** 7.53448	38.76	PK	35.7	-30	0	44.46	54	-9.54	74	-29.54	-	-	0-360	200	V
7	* ** 8.441	38.45	PK	35.8	-29.6	0	44.65	54	-9.35	74	-29.35	-	-	0-360	101	V
8	* ** 9.48183	37.18	PK	36.7	-28.4	0	45.48	54	-8.52	74	-28.52	-	-	0-360	101	V
4	9.77511	38.21	PK	36.9	-28.2	0	46.91	-	-	-	-	68.2	-21.29	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
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

HIGH CHANNEL



HORIZONTAL



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.09351	37.5	PK-U	34.2	-22	0	49.7	-	-	74	-24.3	-	-	295	204	H
	*** 5.09424	24.46	ADV	34.2	-22.1	.47	37.03	54	-16.97	-	-	-	-	295	204	H
5	*** 5.08139	37.79	PK-U	34.2	-21.5	0	50.49	-	-	74	-23.51	-	-	224	294	V
	*** 5.08229	24.81	ADV	34.2	-21.5	.47	37.98	54	-16.02	-	-	-	-	224	294	V
2	*** 8.04304	38.61	Pk	35.8	-29.6	0	44.81	54	-9.19	74	-29.19	-	-	0-360	200	H
3	*** 9.41665	38.24	Pk	36.6	-29.3	0	45.54	54	-8.46	74	-28.46	-	-	0-360	101	H
7	*** 9.04239	38.03	Pk	36.2	-29.4	0	44.83	54	-9.17	74	-29.17	-	-	0-360	101	V
6	7.2402	39	Pk	35.7	-30	0	44.7	-	-	-	-	68.2	-23.5	0-360	200	V
8	9.65661	37.22	Pk	36.8	-28.5	0	45.52	-	-	-	-	68.2	-22.68	0-360	101	V
4	9.75438	36.48	Pk	36.8	-28.1	0	45.18	-	-	-	-	68.2	-23.02	0-360	200	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

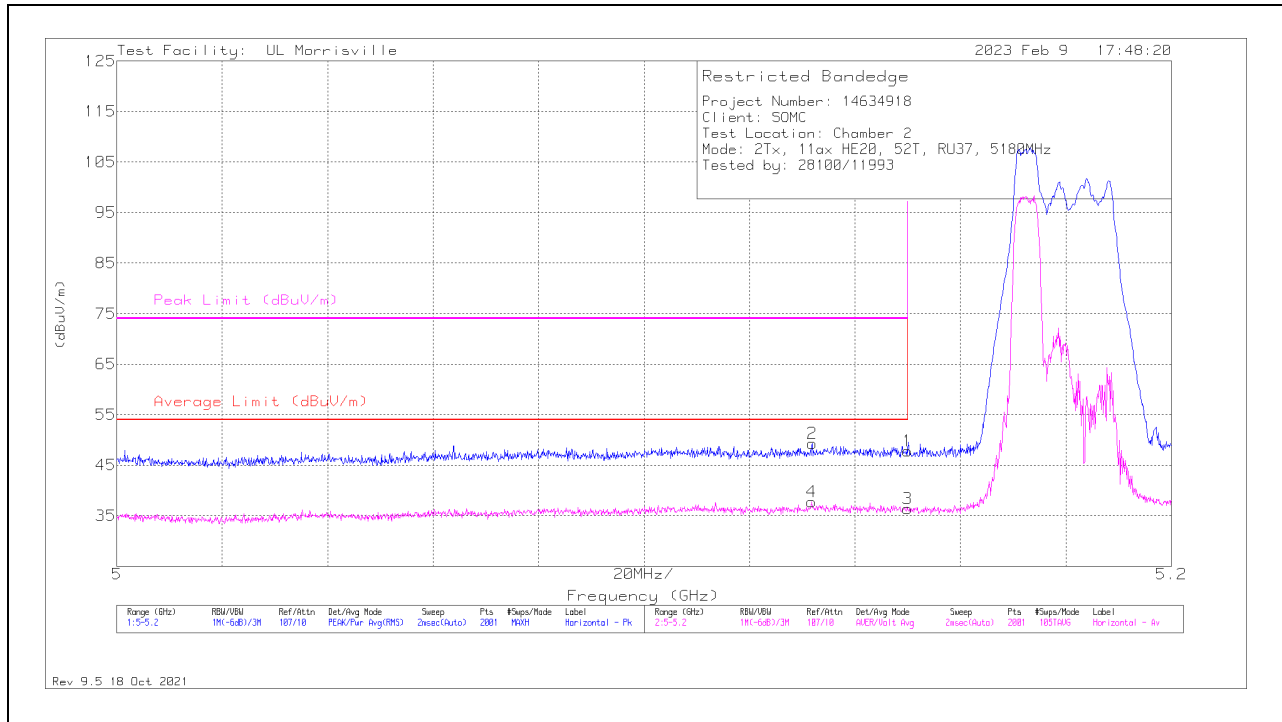
PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

2TX 52T MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	36.17	Pk	34.2	-22.6	0	47.77	-	-	74	-26.23	338	111	H
2	** * 5.1319	37.45	Pk	34.2	-22.4	0	49.25	-	-	74	-24.75	338	111	H
3	*** 5.15	24.28	ADV	34.2	-22.6	.49	36.37	54	-17.63	-	-	338	111	H
4	** * 5.1318	25.44	ADV	34.2	-22.4	.49	37.73	54	-16.27	-	-	338	111	H

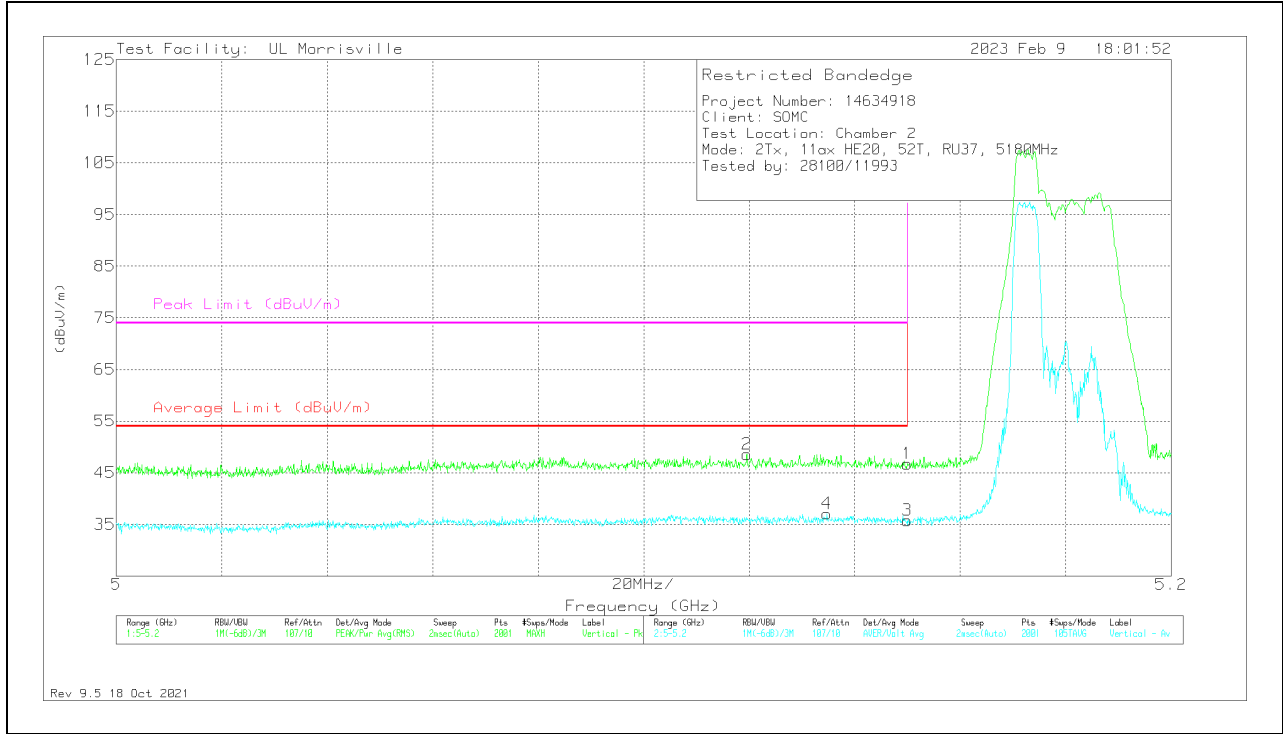
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

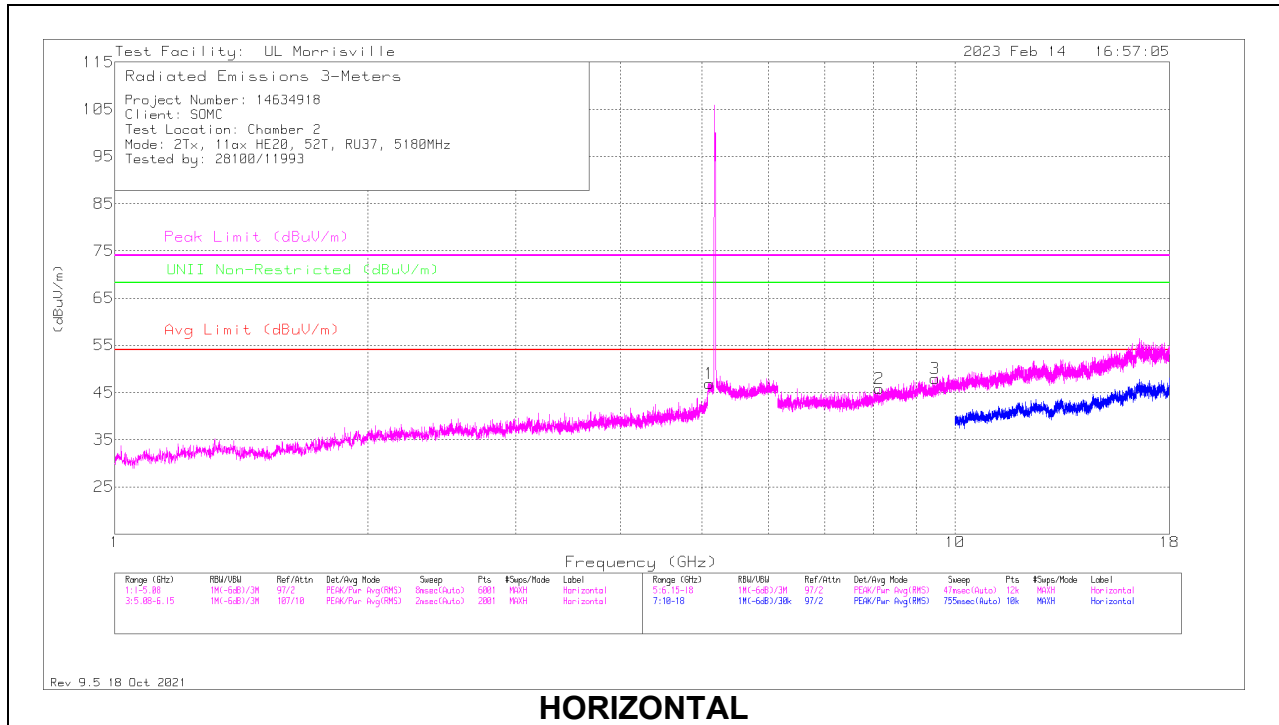


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	35.14	Pk	34.2	-22.6	0	46.74	-	-	74	-27.26	306	101	V
2	** 5.1196	36.97	Pk	34.2	-22.6	0	48.57	-	-	74	-25.43	306	101	V
3	*** 5.15	23.68	ADV	34.2	-22.6	.49	35.77	54	-18.23	-	-	306	101	V
4	*** 5.1347	24.69	ADV	34.2	-22.3	.49	37.08	54	-16.92	-	-	306	101	V

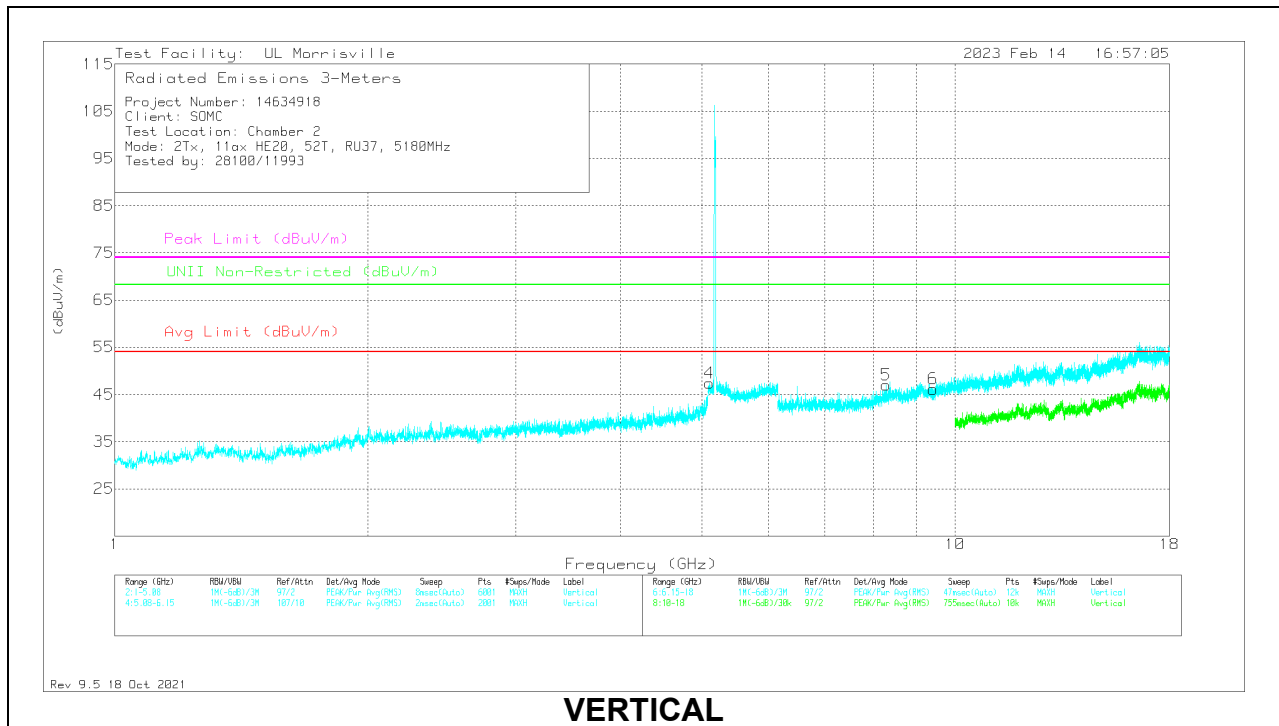
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



HORIZONTAL



VERTICAL

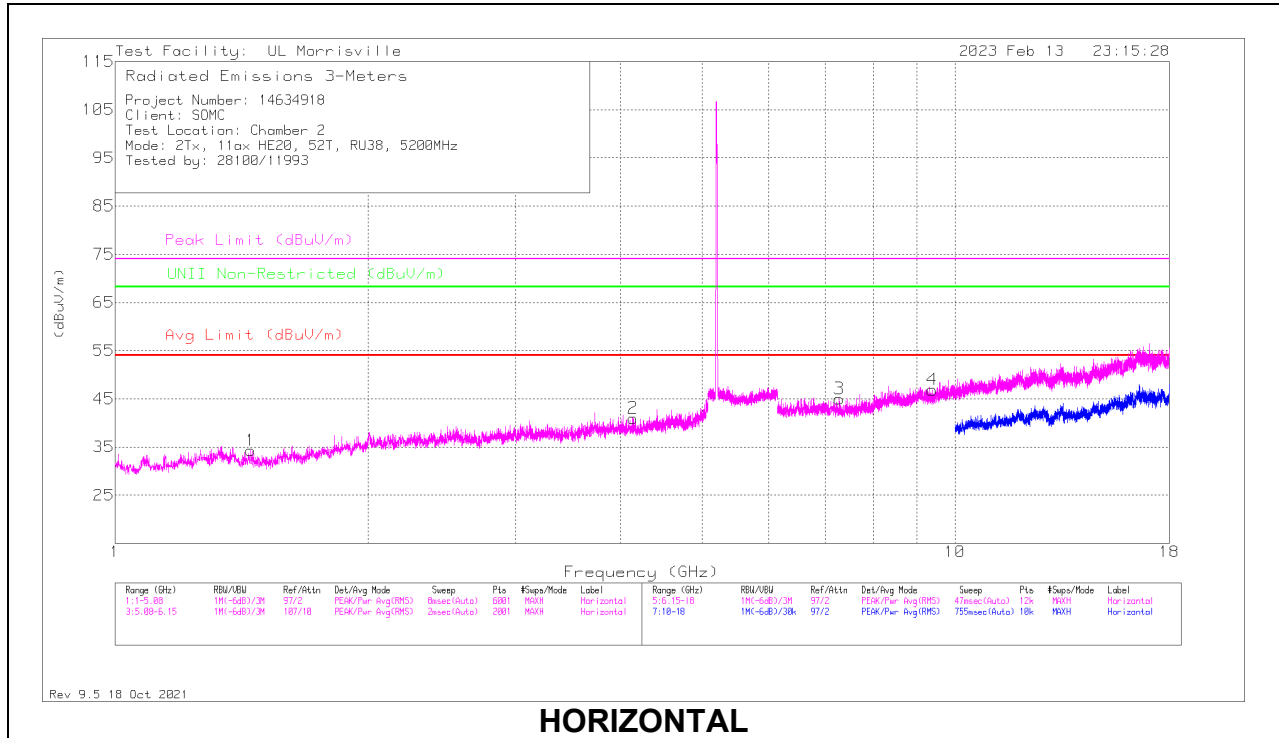
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.10408	34.98	Pk	34.2	-22.3	0	46.88	54	-7.12	74	-27.12	-	-	0-360	101	H
4	* ** 5.10515	35.55	Pk	34.2	-22.3	0	47.45	54	-6.55	74	-26.55	-	-	0-360	101	V
2	* ** 8.13093	37.15	Pk	35.7	-27.1	0	45.75	54	-8.25	74	-28.25	-	-	0-360	101	H
3	* ** 9.46109	37.87	Pk	36.6	-26.6	0	47.87	54	-6.13	74	-26.13	-	-	0-360	101	H
5	* ** 8.28695	38.15	Pk	35.8	-27	0	46.95	54	-7.05	74	-27.05	-	-	0-360	101	V
6	* ** 9.4206	36.04	Pk	36.5	-26.4	0	46.14	54	-7.86	74	-27.86	-	-	0-360	101	V

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

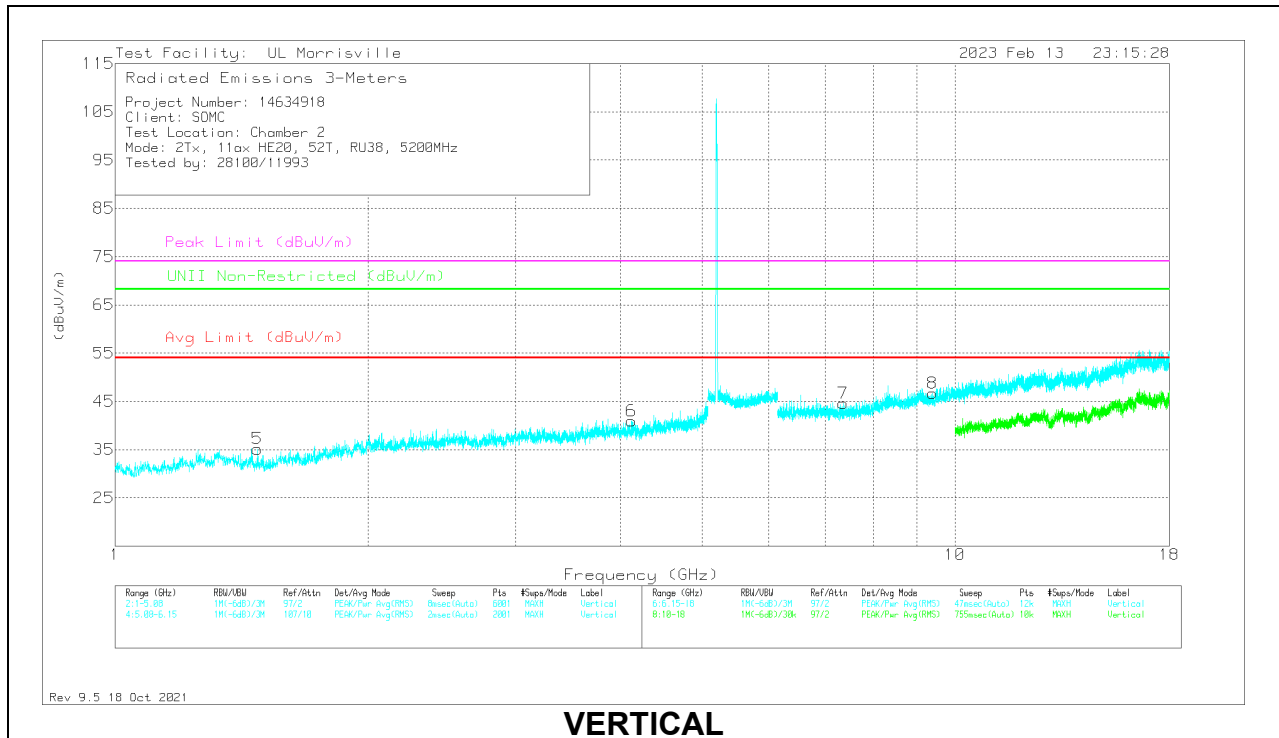
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL



HORIZONTAL

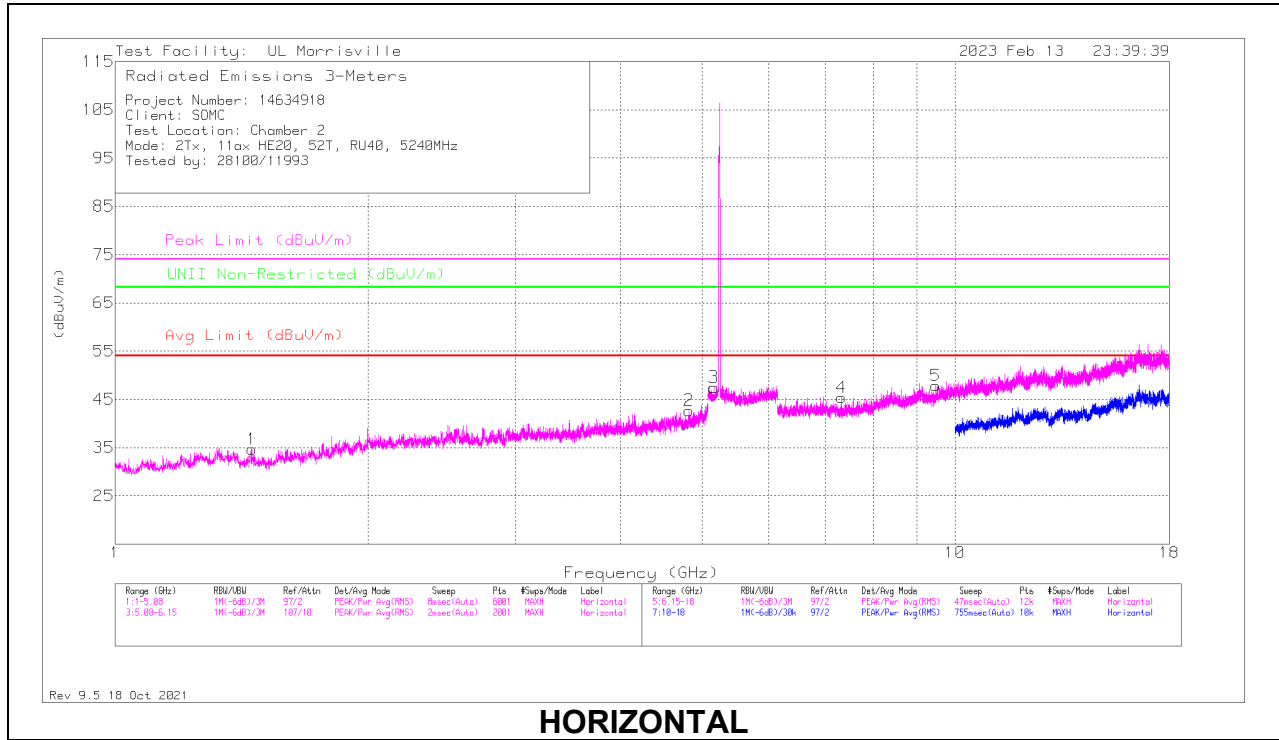


VERTICAL

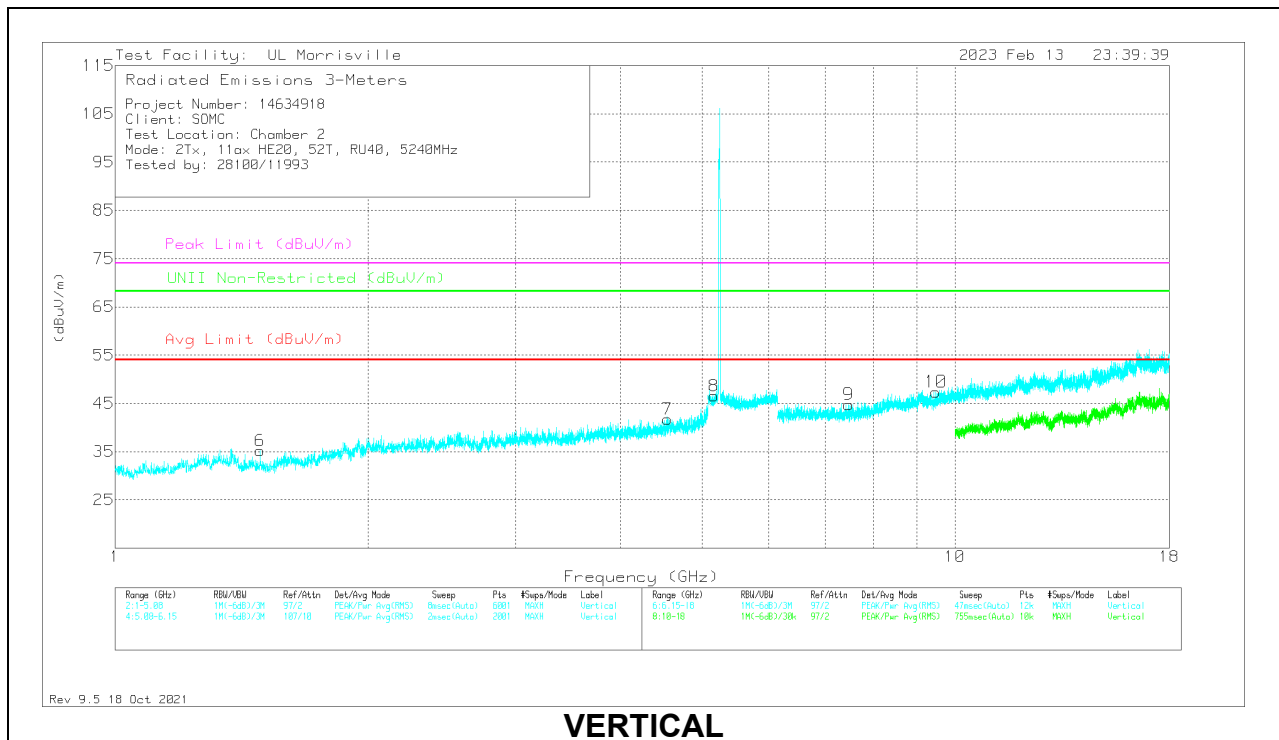
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.45016	40.88	Pk	28.1	-34.7	0	34.28	54	-19.72	74	-39.72	-	-	0-360	199	H
2	* ** 4.13548	38.69	Pk	33.3	-31	0	40.99	54	-13.01	74	-33.01	-	-	0-360	101	H
5	* ** 1.47668	41.85	Pk	28.2	-34.9	0	35.15	54	-18.85	74	-38.85	-	-	0-360	199	V
6	* ** 4.11848	38.44	Pk	33.4	-30.9	0	40.94	54	-13.06	74	-33.06	-	-	0-360	101	V
3	* ** 7.28168	37.21	Pk	35.6	-27.8	0	45.01	54	-8.99	74	-28.99	-	-	0-360	101	H
4	* ** 9.3969	36.18	Pk	36.5	-25.8	0	46.88	54	-7.12	74	-27.12	-	-	0-360	200	H
7	* ** 7.35969	36.88	Pk	35.6	-27.9	0	44.58	54	-9.42	74	-29.42	-	-	0-360	101	V
8	* ** 9.40776	36.16	Pk	36.5	-26	0	46.66	54	-7.34	74	-27.34	-	-	0-360	200	V

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

HIGH CHANNEL



HORIZONTAL



VERTICAL

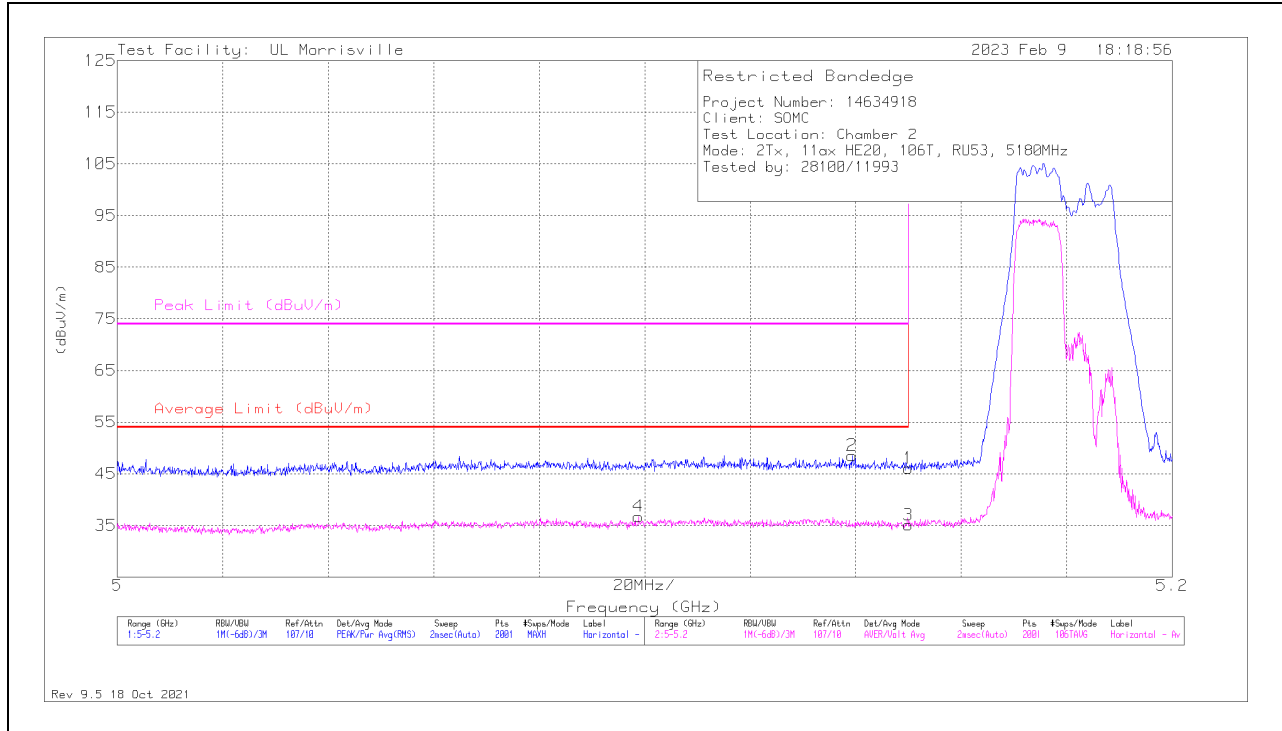
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.45424	41.16	Pk	28.1	-34.6	0	34.66	54	-19.34	74	-39.34	-	-	0-360	199	H
2	*** 4.825	38.86	Pk	34	-30.2	0	42.66	54	-11.34	74	-31.34	-	-	0-360	101	H
6	*** 1.48824	42.01	Pk	28.1	-34.9	0	35.21	54	-18.79	74	-38.79	-	-	0-360	101	V
7	*** 4.54688	39.32	Pk	34.1	-31.7	0	41.72	54	-12.28	74	-32.28	-	-	0-360	199	V
3	** 5.16186	35.69	Pk	34.2	-22.4	0	47.49	54	-6.51	74	-26.51	-	-	0-360	101	H
8	** 5.164	34.64	Pk	34.2	-22.3	0	46.54	54	-7.46	74	-27.46	-	-	0-360	200	V
4	*** 7.32809	37.77	Pk	35.6	-28	0	45.37	54	-8.63	74	-28.63	-	-	0-360	101	H
5	*** 9.4917	36.75	Pk	36.6	-25.5	0	47.85	54	-6.15	74	-26.15	-	-	0-360	101	H
9	*** 7.47226	36.23	Pk	35.7	-27.2	0	44.73	54	-9.27	74	-29.27	-	-	0-360	200	V
10	*** 9.48973	36.25	Pk	36.6	-25.5	0	47.35	54	-6.65	74	-26.65	-	-	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

2TX 106T MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	34.46	Pk	34.2	-22.6	0	46.06	-	-	74	-27.94	340	118	H
2	** * 5.1393	36.72	Pk	34.2	-22.4	0	48.52	-	-	74	-25.48	340	118	H
3	*** 5.15	22.95	ADV	34.2	-22.6	.53	35.08	54	-18.92	-	-	340	118	H
4	*** 5.0988	24.51	ADV	34.2	-22.5	.53	36.74	54	-17.26	-	-	340	118	H

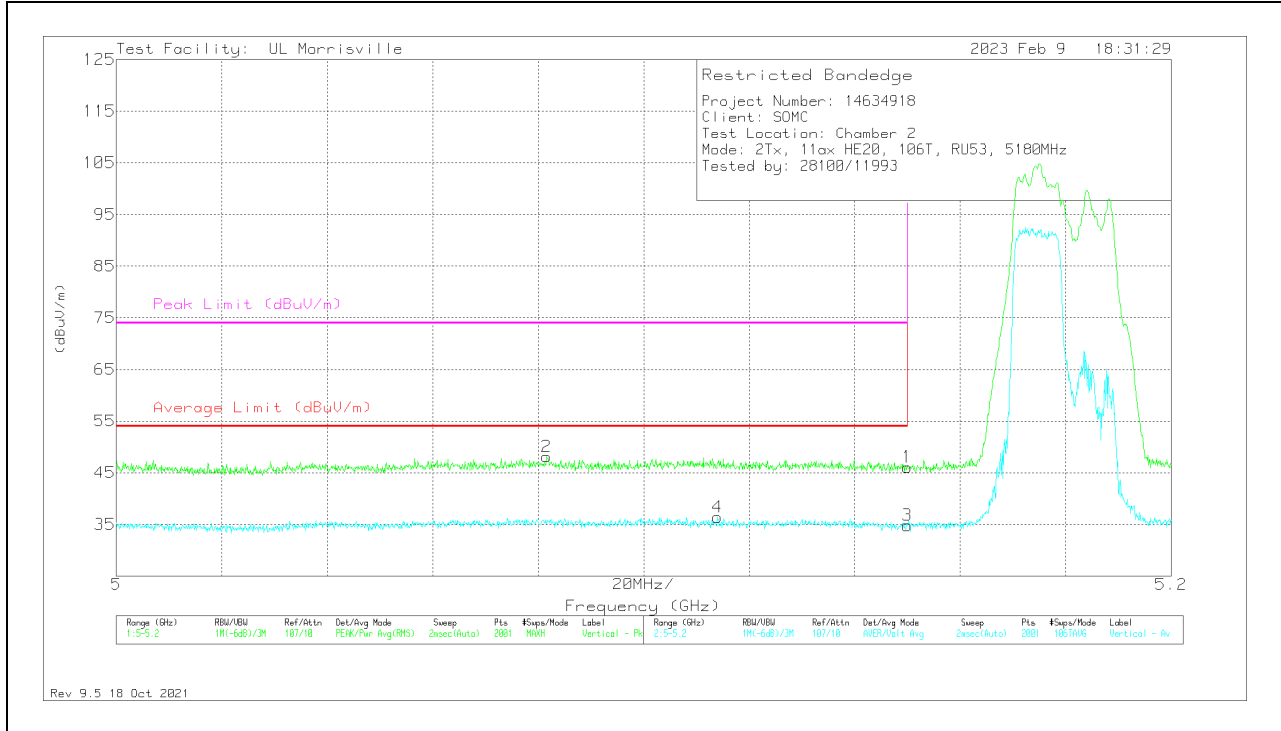
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



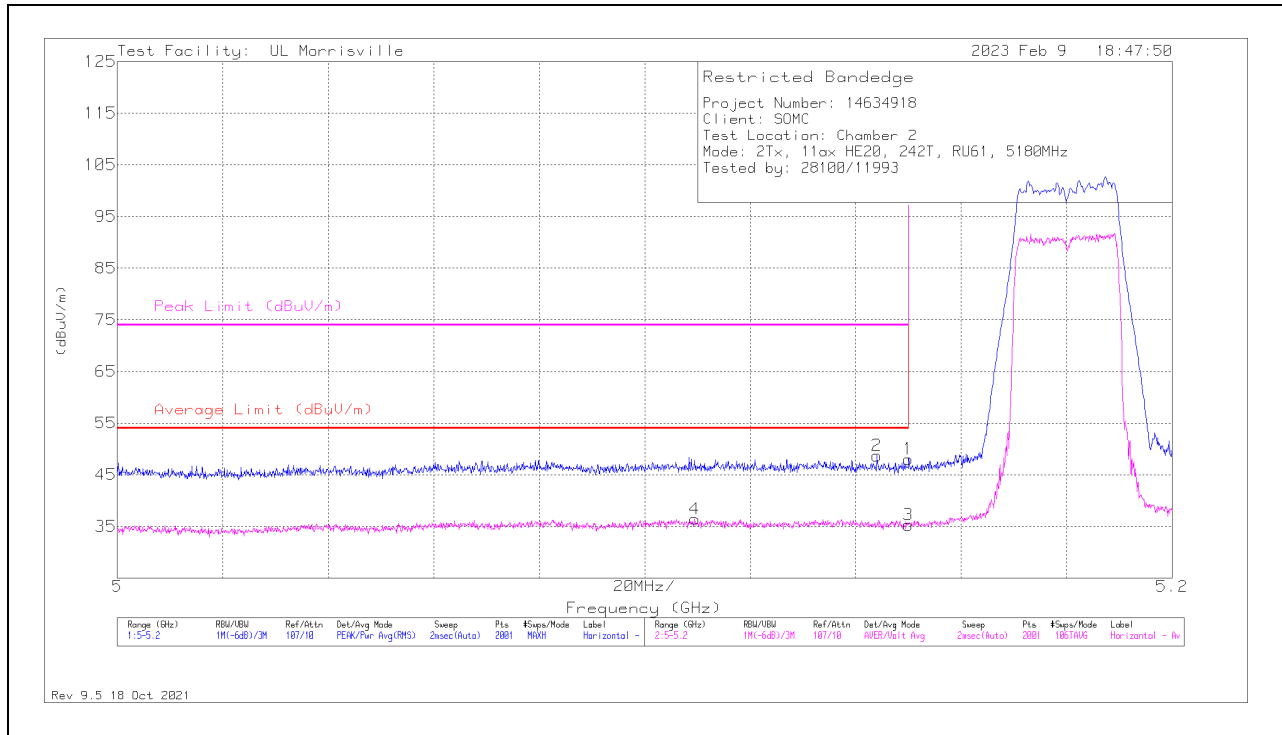
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	34.49	Pk	34.2	-22.6	0	46.09	-	-	74	-27.91	13	128	V
2	** 5.0816	36.21	Pk	34.1	-22.2	0	48.11	-	-	74	-25.89	13	128	V
3	*** 5.15	22.67	ADV	34.2	-22.6	.53	34.8	54	-19.2	-	-	13	128	V
4	*** 5.114	24.07	ADV	34.2	-22.4	.53	36.4	54	-17.6	-	-	13	128	V

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

2TX 242T MODE

BANDEDGE (LOW CHANNEL)

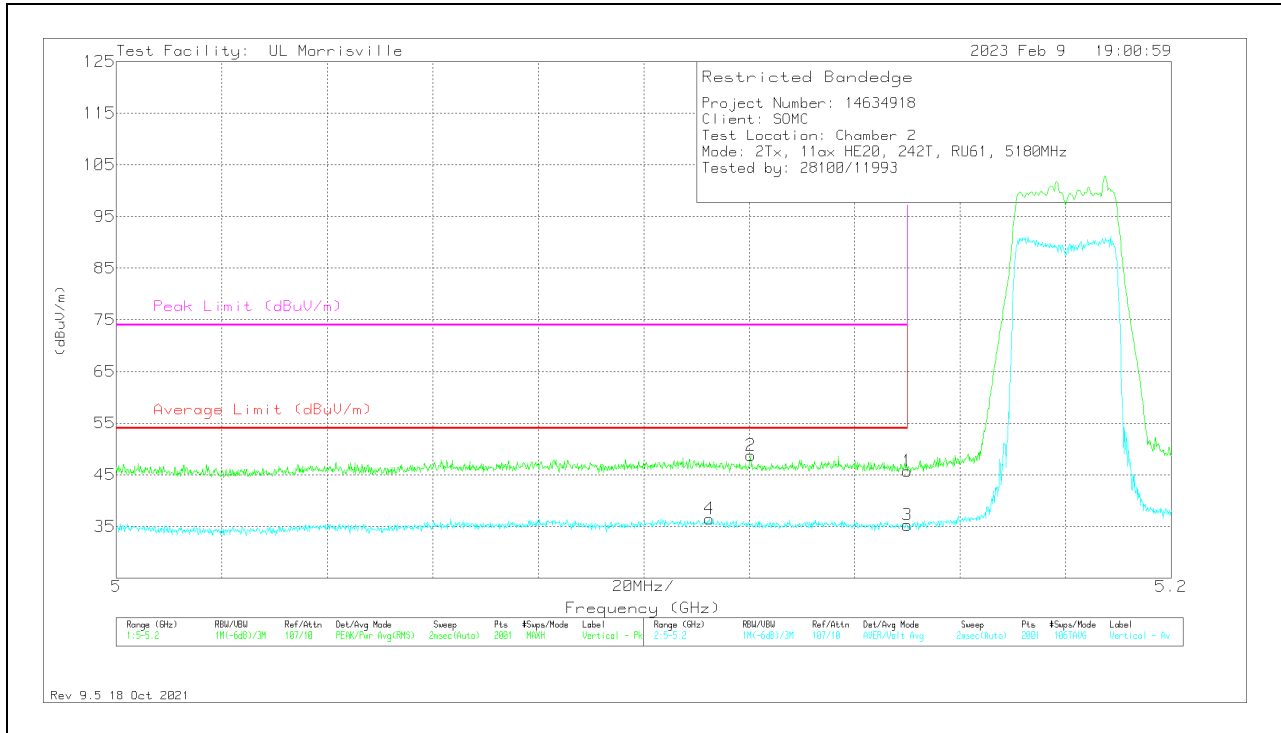
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	36.43	Pk	34.2	-22.6	0	48.03	-	-	74	-25.97	335	123	H
2	*** 5.144	36.99	Pk	34.2	-22.5	0	48.69	-	-	74	-25.31	335	123	H
3	*** 5.15	23.18	ADV	34.2	-22.6	.51	35.29	54	-18.71	-	-	335	123	H
4	*** 5.1095	24.11	ADV	34.2	-22.4	.51	36.42	54	-17.58	-	-	335	123	H

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	34.1	Pk	34.2	-22.6	0	45.7	-	-	74	-28.3	314	101	V
2	** 5.1203	37.14	Pk	34.2	-22.6	0	48.74	-	-	74	-25.26	314	101	V
3	*** 5.15	23.17	ADV	34.2	-22.6	.51	35.28	54	-18.72	-	-	314	101	V
4	*** 5.1124	24.17	ADV	34.2	-22.4	.51	36.48	54	-17.52	-	-	314	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

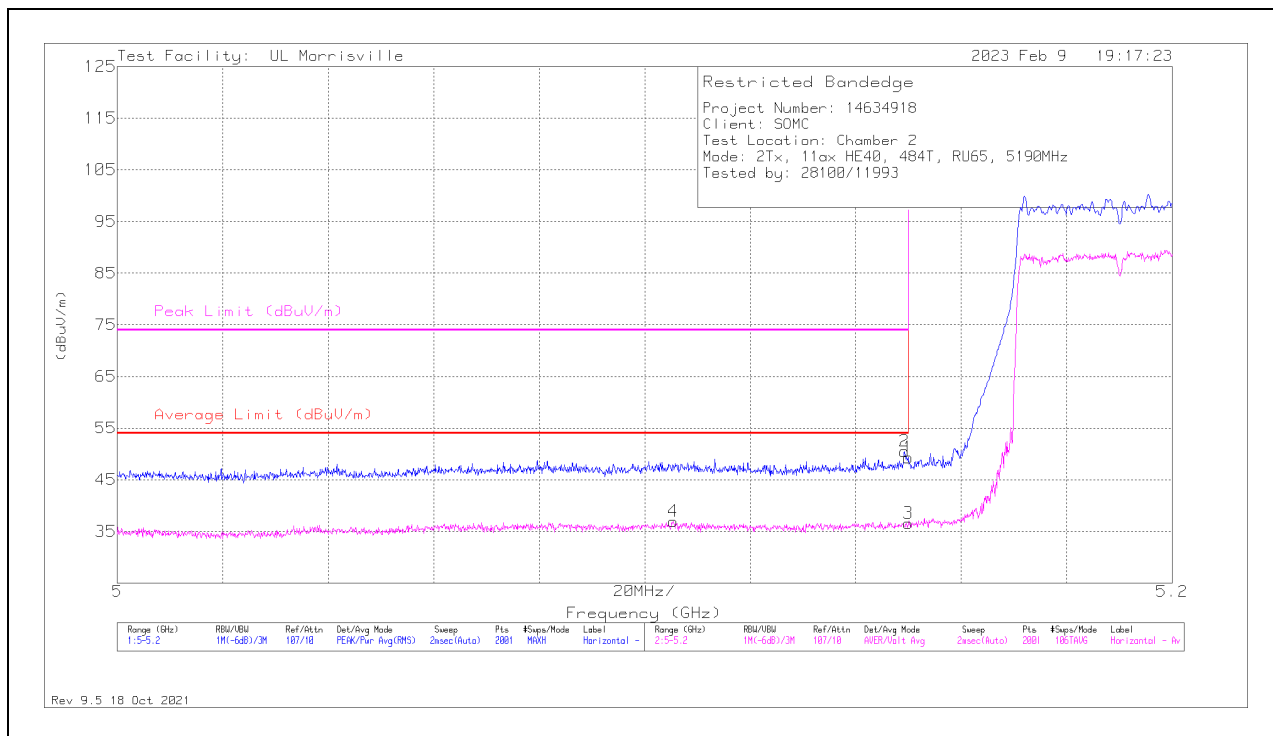
ADV - Linear Voltage Average

10.1.2. 802.11ax HE40 MODE IN THE 5.2GHz BAND

2TX 484T MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	37.7	Pk	34.2	-22.6	0	49.3	-	-	74	-24.7	339	116	H
2	*** 5.1492	38.91	Pk	34.2	-22.6	0	50.51	-	-	74	-23.49	339	116	H
3	** 5.15	24.41	ADV	34.2	-22.6	.58	36.59	54	-17.41	-	-	339	116	H
4	*** 5.1054	24.47	ADV	34.2	-22.3	.58	36.95	54	-17.05	-	-	339	116	H

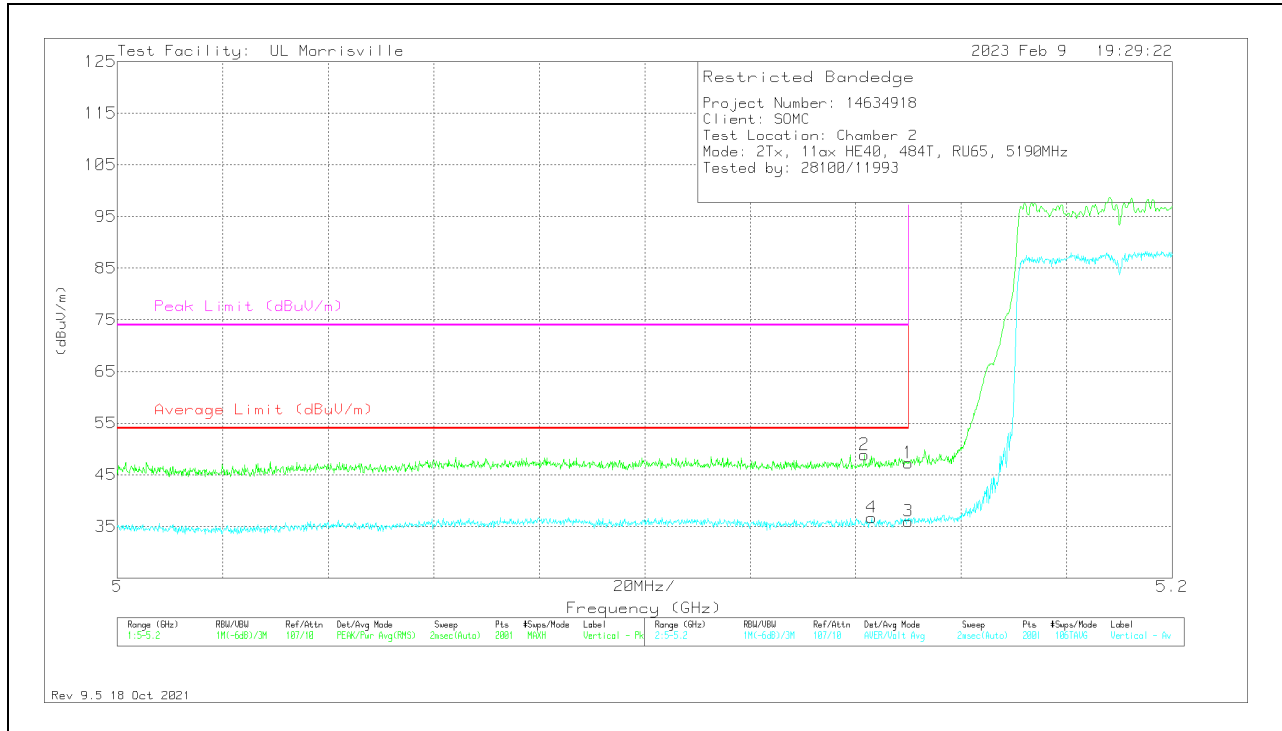
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	35.71	Pk	34.2	-22.6	0	47.31	-	-	74	-26.69	307	101	V
2	** 5.1416	37.19	Pk	34.2	-22.5	0	48.89	-	-	74	-25.11	307	101	V
3	*** 5.15	23.82	ADV	34.2	-22.6	.58	36	54	-18	-	-	307	101	V
4	*** 5.143	24.45	ADV	34.2	-22.5	.58	36.73	54	-17.27	-	-	307	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

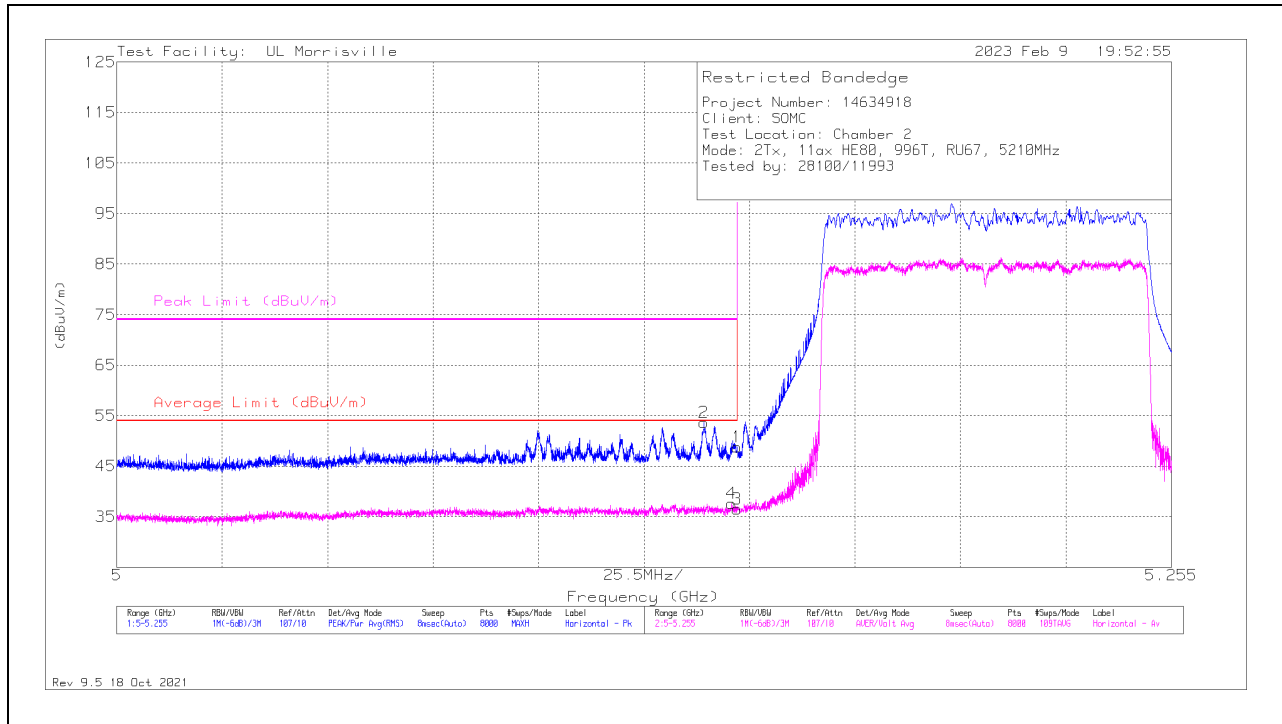
ADV - Linear Voltage Average

10.1.3. 802.11ax HE80 MODE IN THE 5.2GHz BAND

2TX 996T MODE

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	37.2	Pk	34.2	-22.6	0	48.8	-	-	74	-25.2	340	117	H
2	** 5.14193	42	Pk	34.2	-22.5	0	53.7	-	-	74	-20.3	340	117	H
3	*** 5.14999	24.08	ADV	34.2	-22.6	.8	36.48	54	-17.52	-	-	340	117	H
4	*** 5.14865	25.18	ADV	34.2	-22.6	.8	37.58	54	-16.42	-	-	340	117	H

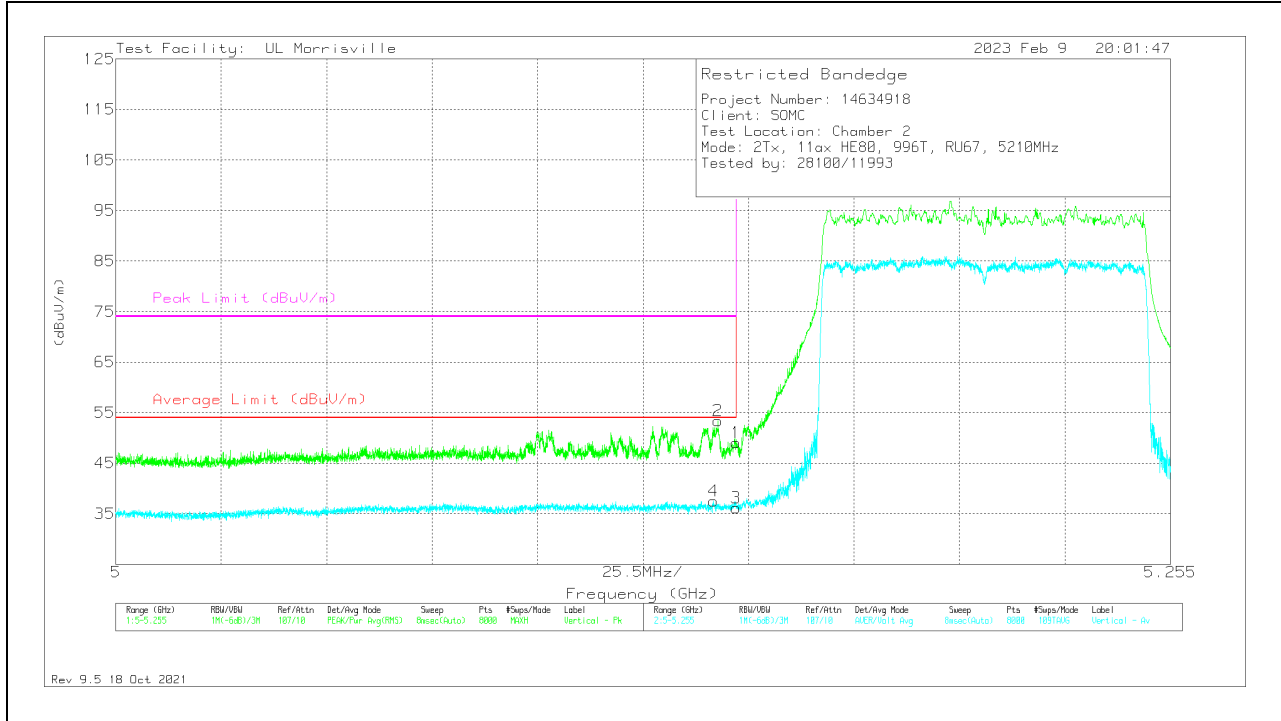
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	37.47	Pk	34.2	-22.6	0	49.07	-	-	74	-24.93	310	101	V
2	*** 5.14562	41.81	Pk	34.2	-22.6	0	53.41	-	-	74	-20.59	310	101	V
3	*** 5.14999	23.78	ADV	34.2	-22.6	.8	36.18	54	-17.82	-	-	310	101	V
4	*** 5.14457	24.96	ADV	34.2	-22.5	.8	37.46	54	-16.54	-	-	310	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

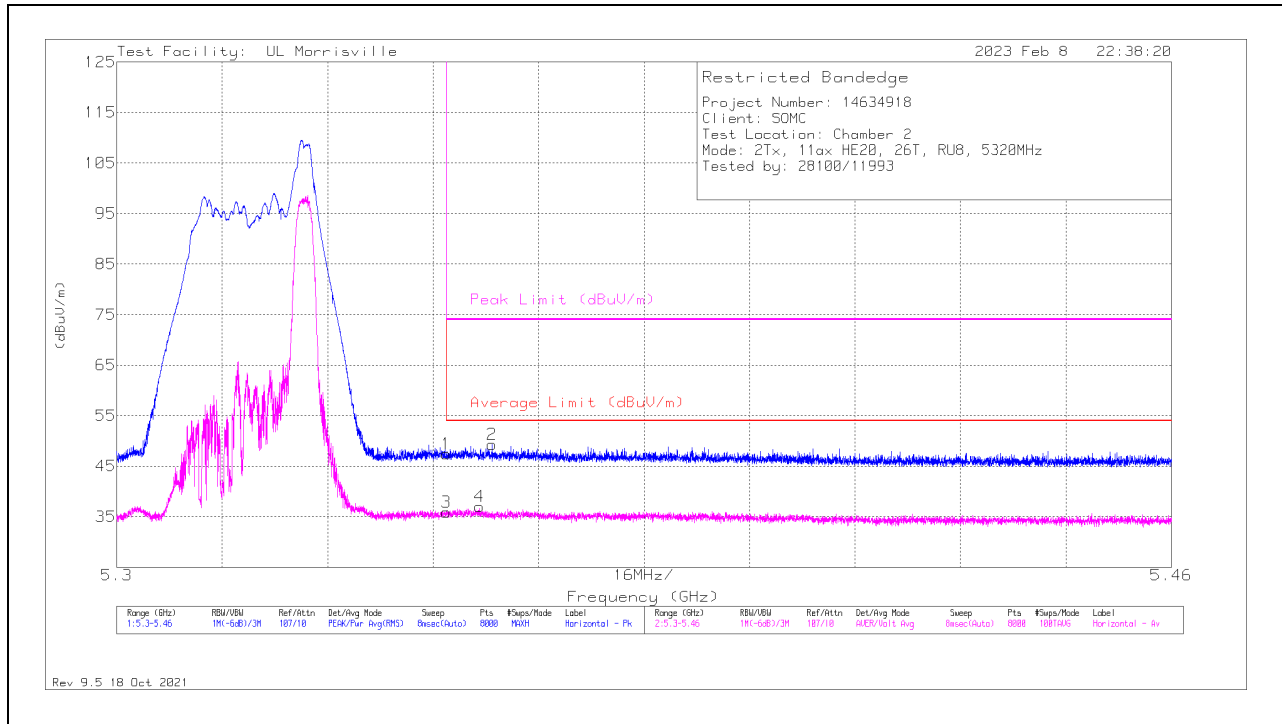
ADV - Linear Voltage Average

10.1.4. 802.11ax HE20 MODE IN THE 5.3GHz BAND

2TX 26T MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	35.56	Pk	34.6	-22.7	0	47.46	-	-	74	-26.54	90	116	H
2	** 5.35695	37.55	Pk	34.5	-22.8	0	49.25	-	-	74	-24.75	90	116	H
3	*** 5.35001	23.52	ADV	34.6	-22.7	.47	35.89	54	-18.11	-	-	90	116	H
4	*** 5.35503	24.78	ADV	34.6	-22.8	.47	37.05	54	-16.95	-	-	90	116	H

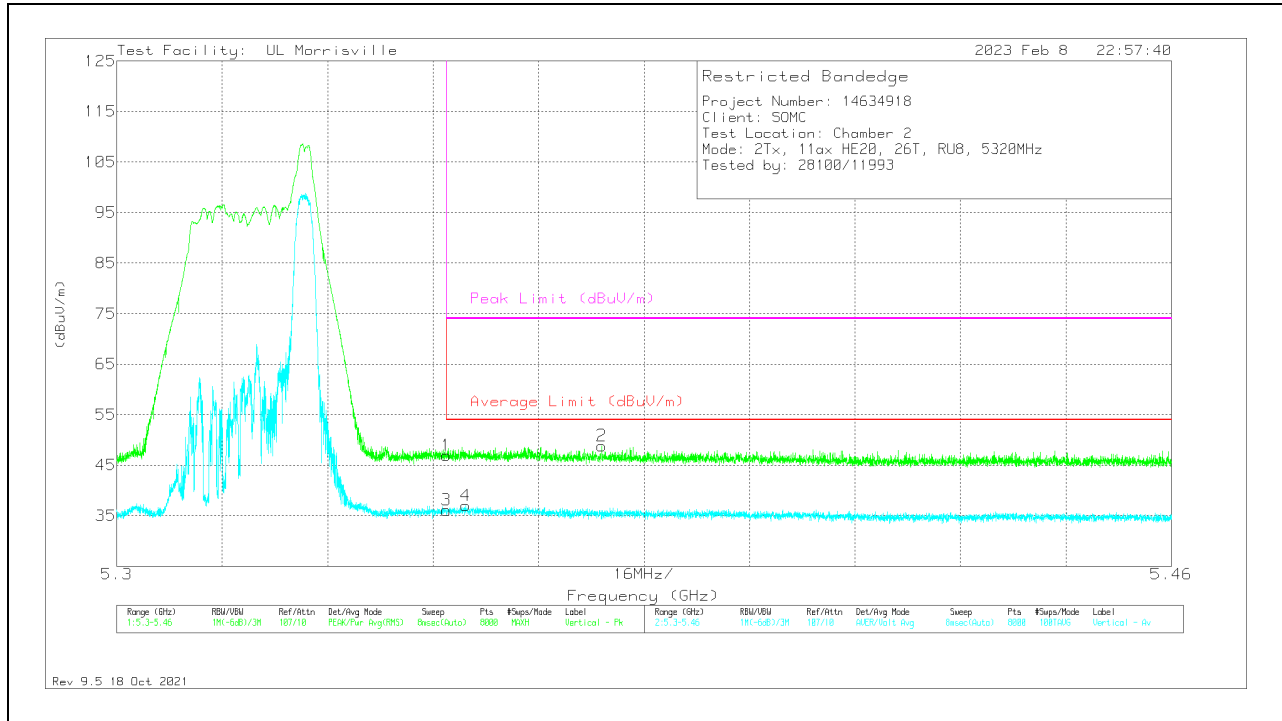
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



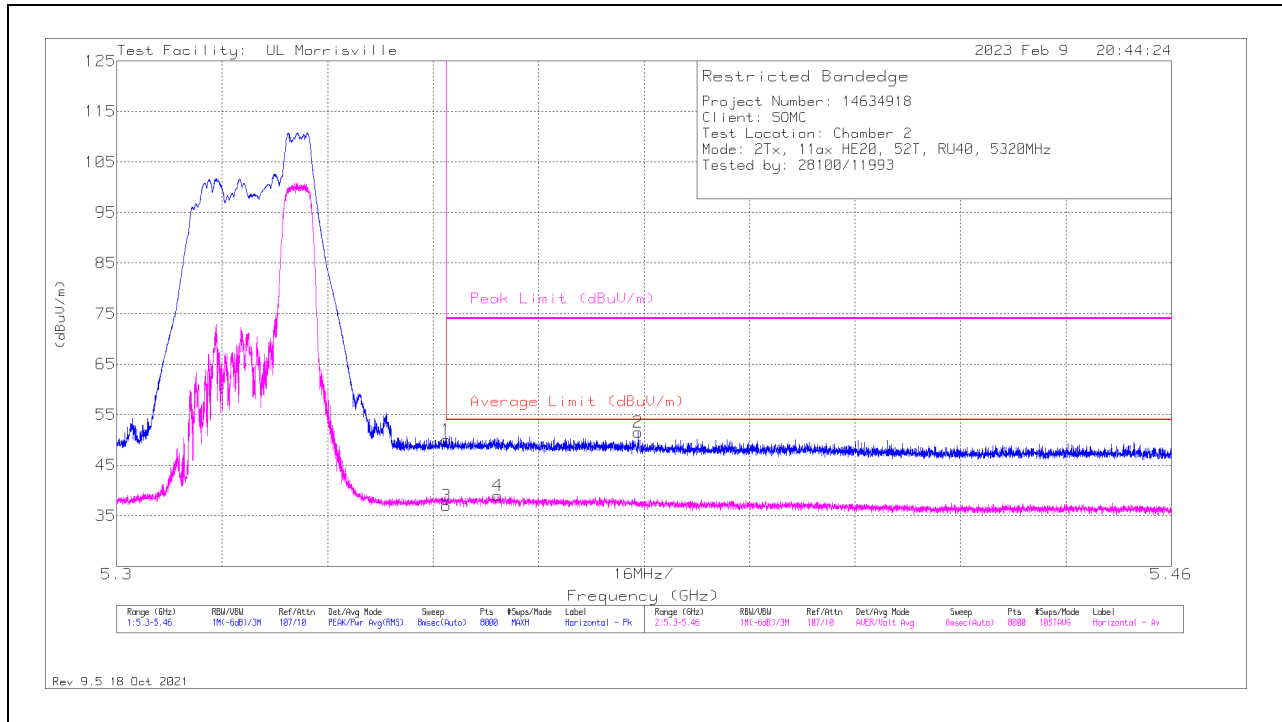
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	35.05	Pk	34.6	-22.7	0	46.95	-	-	74	-27.05	122	324	V
2	*** 5.37361	37.56	Pk	34.5	-23.2	0	48.86	-	-	74	-25.14	122	324	V
3	*** 5.35001	23.71	ADV	34.6	-22.7	.47	36.08	54	-17.92	-	-	122	324	V
4	*** 5.35293	24.61	ADV	34.6	-22.7	.47	36.98	54	-17.02	-	-	122	324	V

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

2TX 52T MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	38.15	Pk	34.6	-22.7	0	50.05	-	-	74	-23.95	340	109	H
2	*** 5.37909	40.1	Pk	34.5	-23.1	0	51.5	-	-	74	-22.5	340	109	H
3	*** 5.35001	24.66	ADV	34.6	-22.7	.49	37.05	54	-16.95	-	-	340	108	H
4	*** 5.35777	26.76	ADV	34.5	-22.8	.49	38.95	54	-15.05	-	-	340	108	H

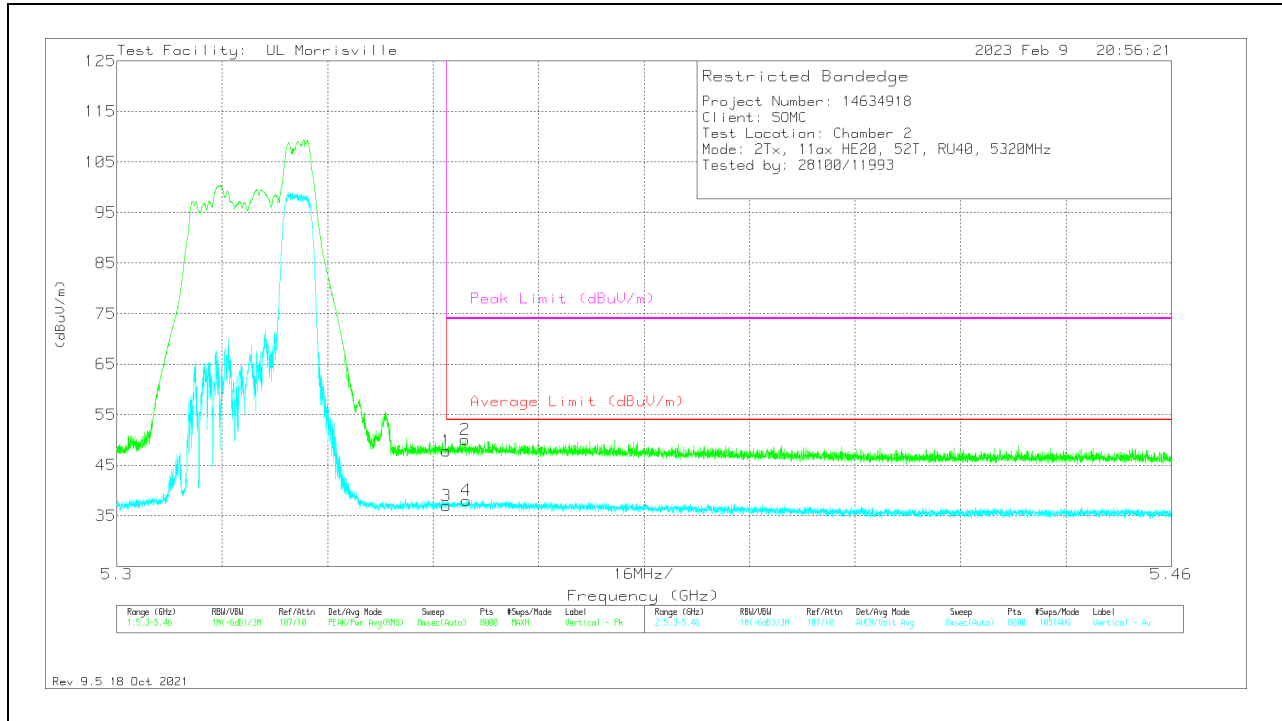
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT

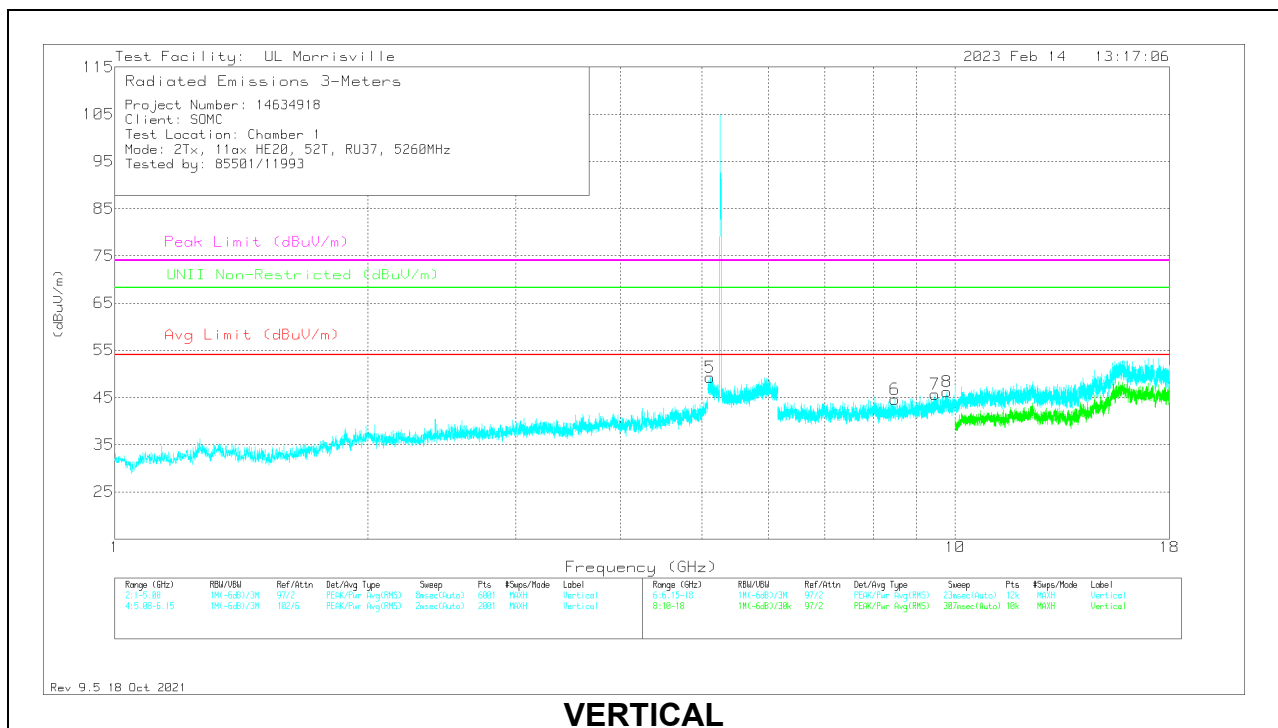
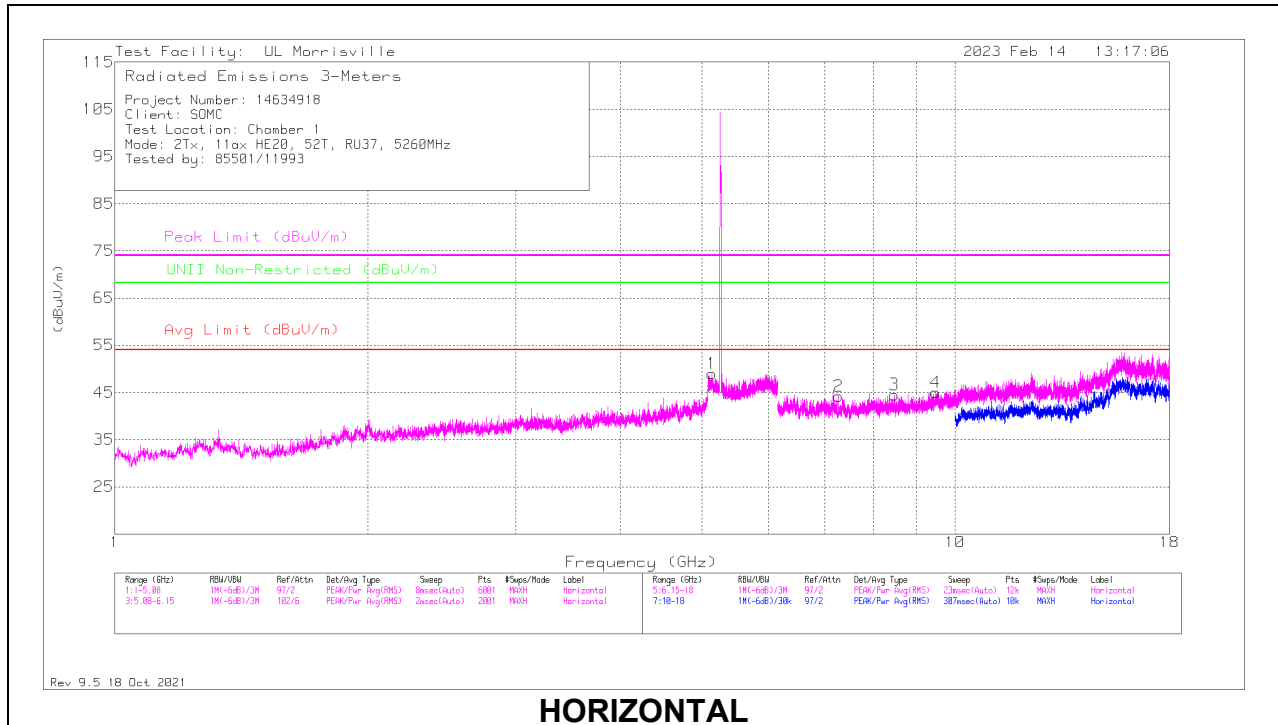


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	35.93	Pk	34.6	-22.7	0	47.83	-	-	74	-26.17	311	106	V
2	*** 5.35287	38.2	Pk	34.6	-22.7	0	50.1	-	-	74	-23.9	311	106	V
3	*** 5.35001	24.63	ADV	34.6	-22.7	.49	37.02	54	-16.98	-	-	311	106	V
4	*** 5.35307	25.67	ADV	34.6	-22.7	.49	38.06	54	-15.94	-	-	311	106	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14193	37.27	PK-U	34.3	-21.4	0	50.17	-	-	74	-23.83	-	-	145	304	H
	* ** 5.13884	24.54	ADV	34.3	-21.5	.47	37.81	54	-16.19	-	-	-	-	145	304	H
5	* ** 5.11245	37.6	PK-U	34.2	-22	0	49.8	-	-	74	-24.2	-	-	207	217	V
	* ** 5.10946	24.62	ADV	34.2	-22.1	.47	37.19	54	-16.81	-	-	-	-	207	217	V
2	* ** 7.27081	38.45	Pk	35.6	-29.9	0	44.15	54	-9.85	74	-29.85	-	-	0-360	101	H
3	* ** 8.47458	38.14	Pk	35.8	-29.4	0	44.54	54	-9.46	74	-29.46	-	-	0-360	101	H
4	* ** 9.47886	36.45	Pk	36.7	-28.2	0	44.95	54	-9.05	74	-29.05	-	-	0-360	199	H
6	* ** 8.47655	38.1	Pk	35.8	-29.3	0	44.6	54	-9.4	74	-29.4	-	-	0-360	101	V
7	* ** 9.46899	37.51	Pk	36.7	-28.5	0	45.71	54	-8.29	74	-28.29	-	-	0-360	200	V
8	9.78499	37.2	Pk	36.9	-27.9	0	46.2	-	-	-	-	68.2	-22	0-360	101	V

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

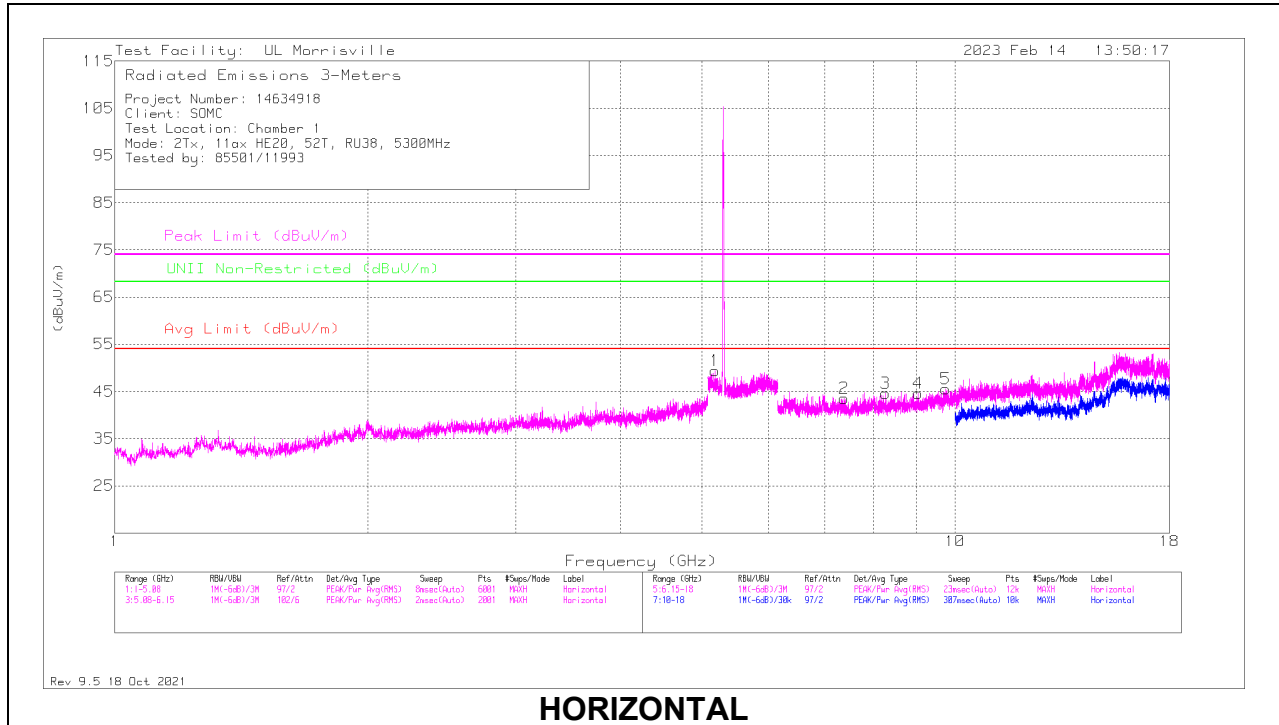
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

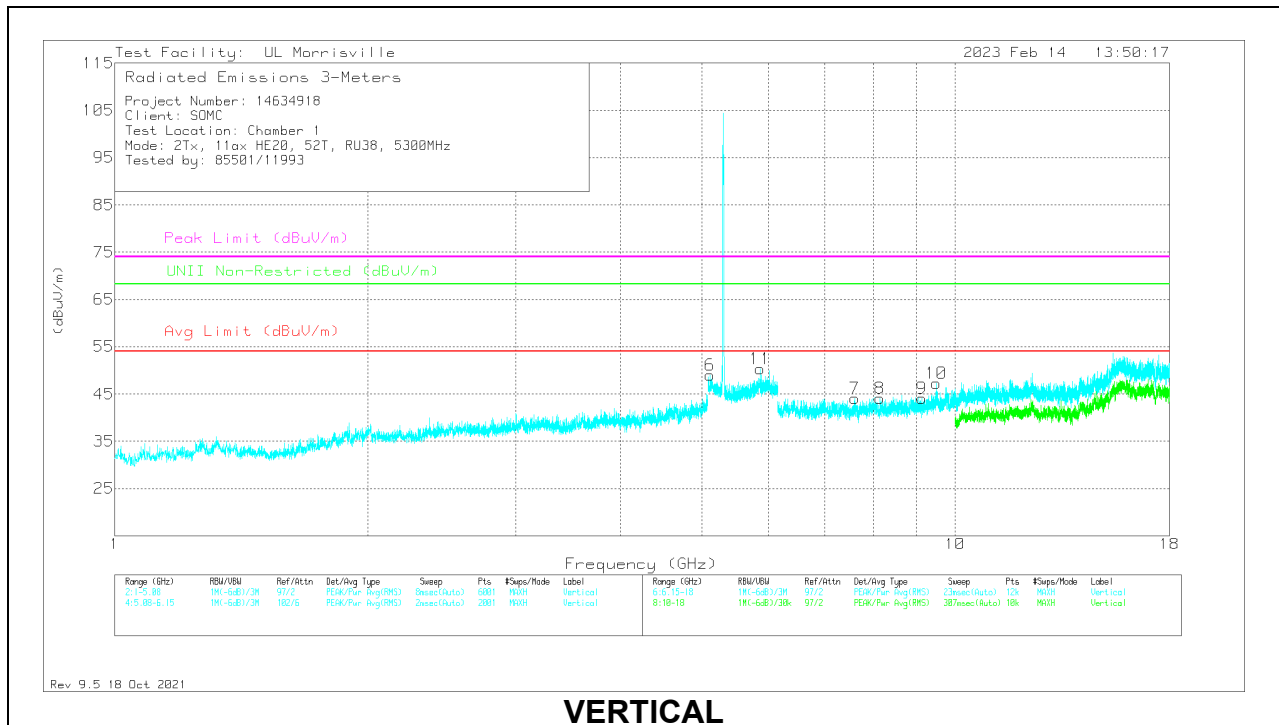
PK-U - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL



HORIZONTAL



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 5.18005	37.19	Pk	34.3	-22.1	0	49.39	-	-	-	-	68.2	-18.81	0-360	199	H
6	*** 5.11331	37.08	PK-U	34.2	-22	0	49.28	-	-	74	-24.72	-	-	1	157	V
	* ** 5.11261	24.44	ADV	34.2	-22	.47	37.11	54	-16.89	-	-	-	-	1	157	V
2	*** 7.37944	38.08	Pk	35.6	-30.1	0	43.58	54	-10.42	74	-30.42	-	-	0-360	200	H
3	*** 8.2672	37.94	Pk	35.8	-29.1	0	44.64	54	-9.36	74	-29.36	-	-	0-360	101	H
4	*** 9.03943	37.86	Pk	36.2	-29.4	0	44.66	54	-9.34	74	-29.34	-	-	0-360	200	H
7	*** 7.5957	38.34	Pk	35.7	-30	0	44.04	54	-9.96	74	-29.96	-	-	0-360	200	V
8	*** 8.1408	38.53	Pk	35.8	-30.2	0	44.13	54	-9.87	74	-29.87	-	-	0-360	101	V
9	*** 9.13324	36.69	Pk	36.3	-28.9	0	44.09	54	-9.91	74	-29.91	-	-	0-360	200	V
10	* ** 9.49368	39.25	Pk	36.7	-28.7	0	47.25	54	-6.75	74	-26.75	-	-	0-360	200	V
11	5.86271	36.97	Pk	34.9	-21.5	0	50.37	-	-	-	-	68.2	-17.83	0-360	101	V
5	9.75043	36.88	Pk	36.8	-28.2	0	45.48	-	-	-	-	68.2	-22.72	0-360	200	H

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

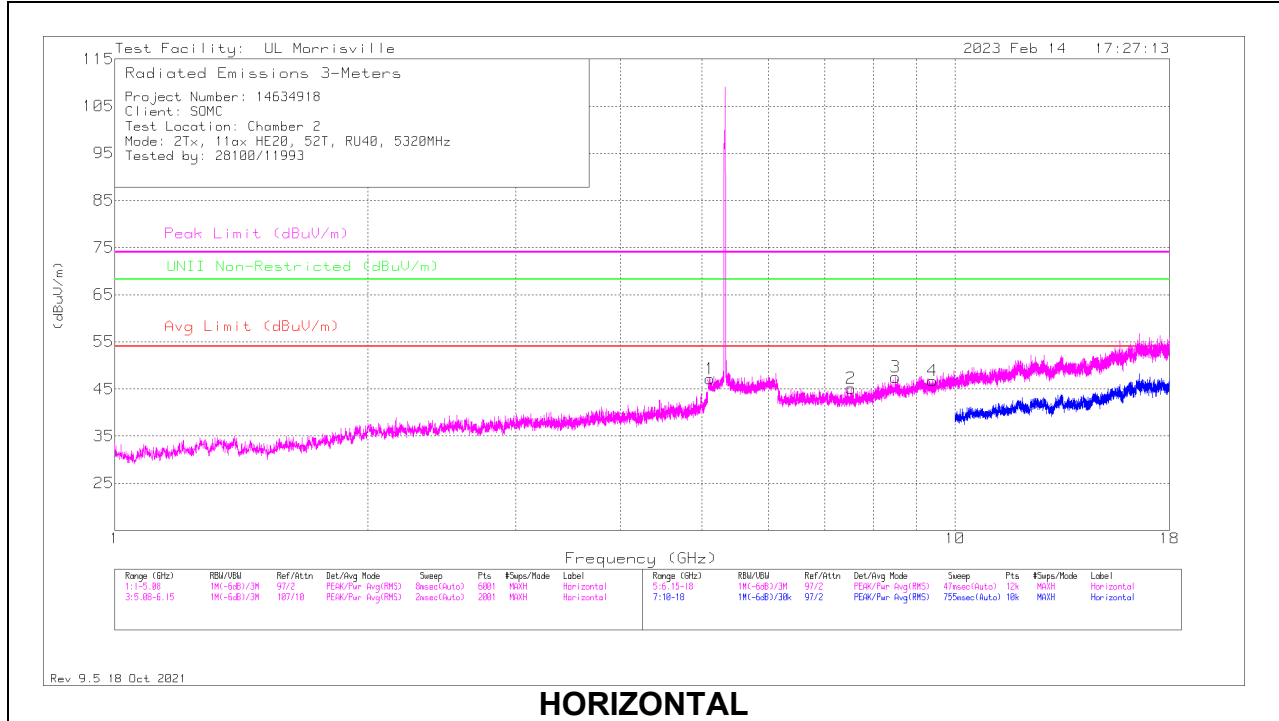
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

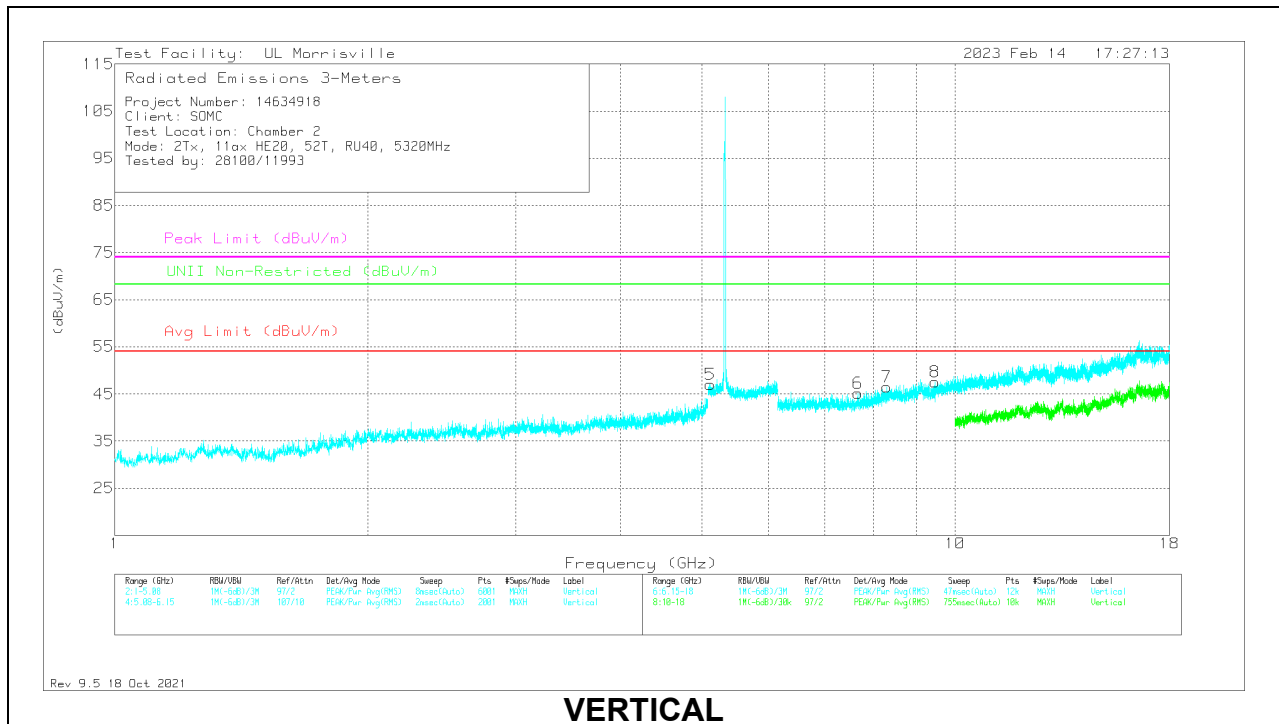
PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

HIGH CHANNEL



HORIZONTAL



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.10836	35.21	Pk	34.2	-22.3	0	47.11	54	-6.89	74	-26.89	-	-	0-360	101	H
5	*** 5.11531	35.32	Pk	34.2	-22.5	0	47.02	54	-6.98	74	-26.98	-	-	0-360	199	V
2	*** 7.52065	36.98	Pk	35.7	-27.6	0	45.08	54	-8.92	74	-28.92	-	-	0-360	199	H
3	*** 8.49828	38.37	Pk	35.9	-26.8	0	47.47	54	-6.53	74	-26.53	-	-	0-360	101	H
4	*** 9.4048	36.09	Pk	36.5	-25.9	0	46.69	54	-7.31	74	-27.31	-	-	0-360	101	H
6	*** 7.67174	37.12	Pk	35.7	-27.7	0	45.12	54	-8.88	74	-28.88	-	-	0-360	199	V
7	*** 8.30176	37.72	Pk	35.8	-27.1	0	46.42	54	-7.58	74	-27.58	-	-	0-360	199	V
8	*** 9.46899	37.16	Pk	36.6	-26.2	0	47.56	54	-6.44	74	-26.44	-	-	0-360	199	V

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

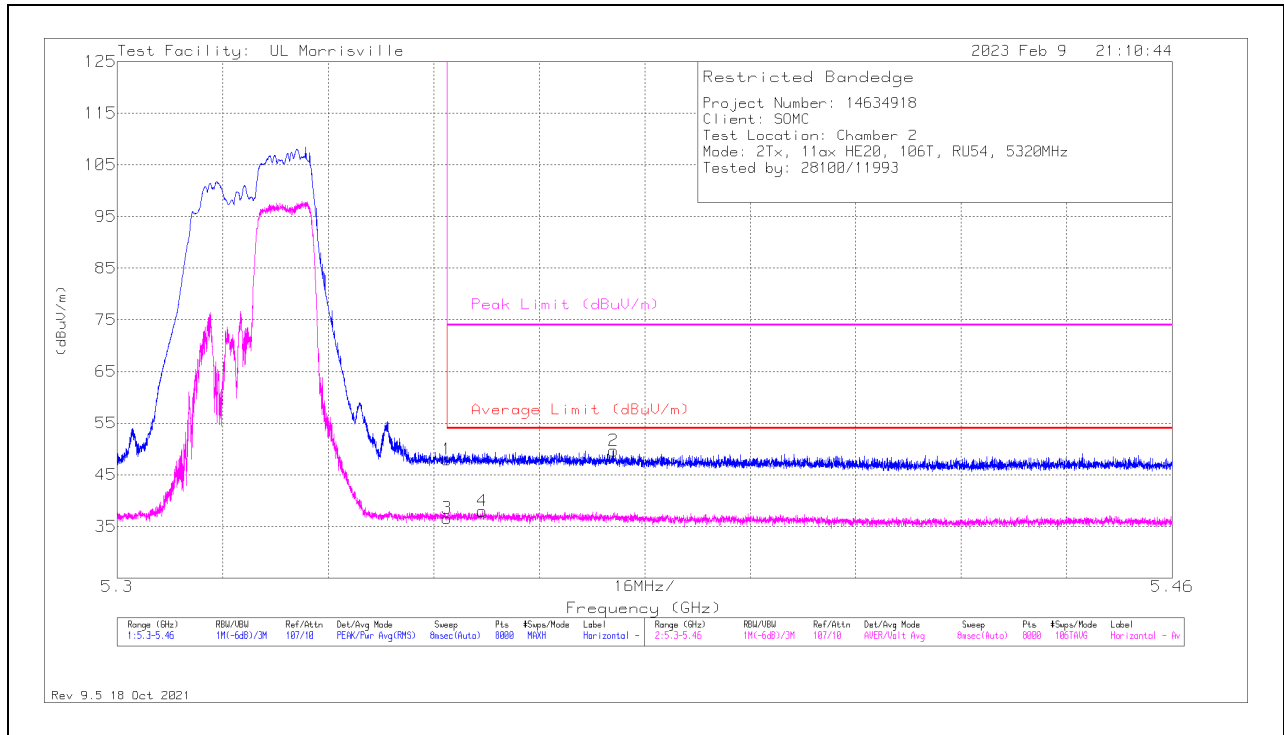
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

2TX 106T MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	36.05	Pk	34.6	-22.7	0	47.95	-	-	74	-26.05	340	108	H
2	*** 5.37527	38.36	Pk	34.5	-23.2	0	49.66	-	-	74	-24.34	340	108	H
3	*** 5.35001	24.17	ADV	34.6	-22.7	.53	36.6	54	-17.4	-	-	340	108	H
4	*** 5.35539	25.64	ADV	34.6	-22.8	.53	37.97	54	-16.03	-	-	340	108	H

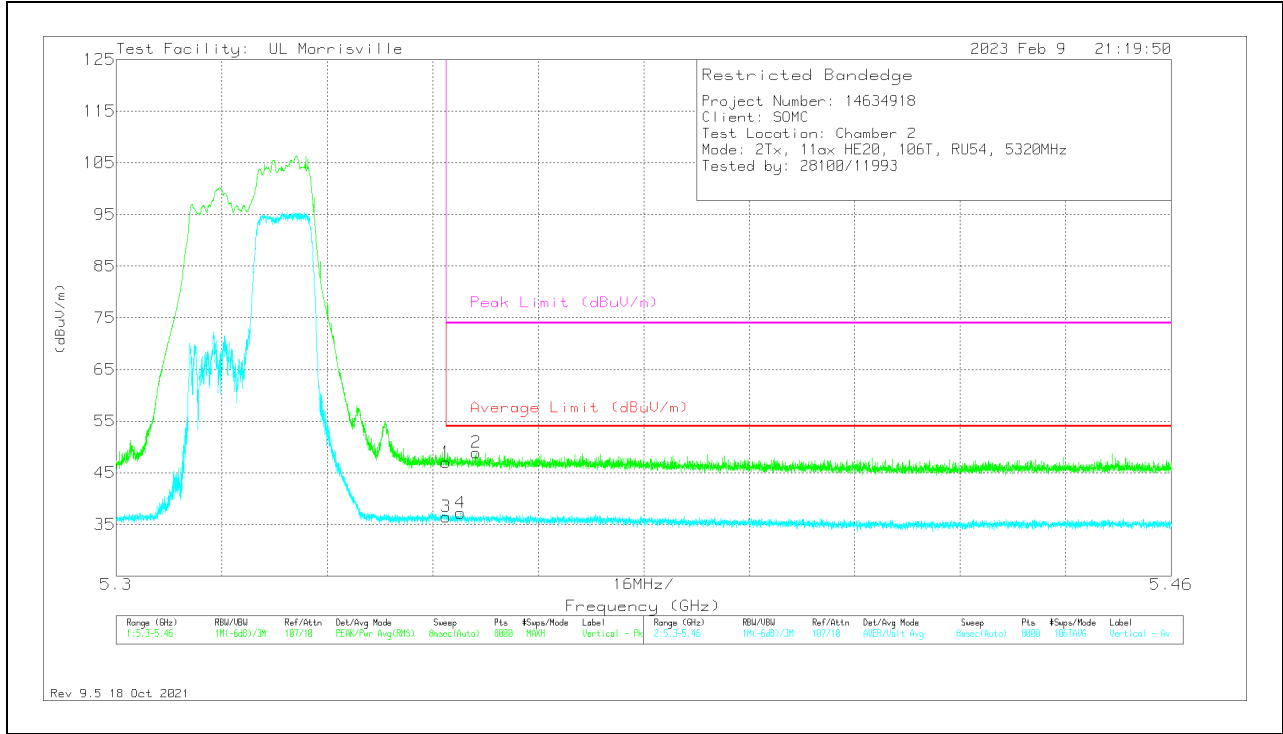
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



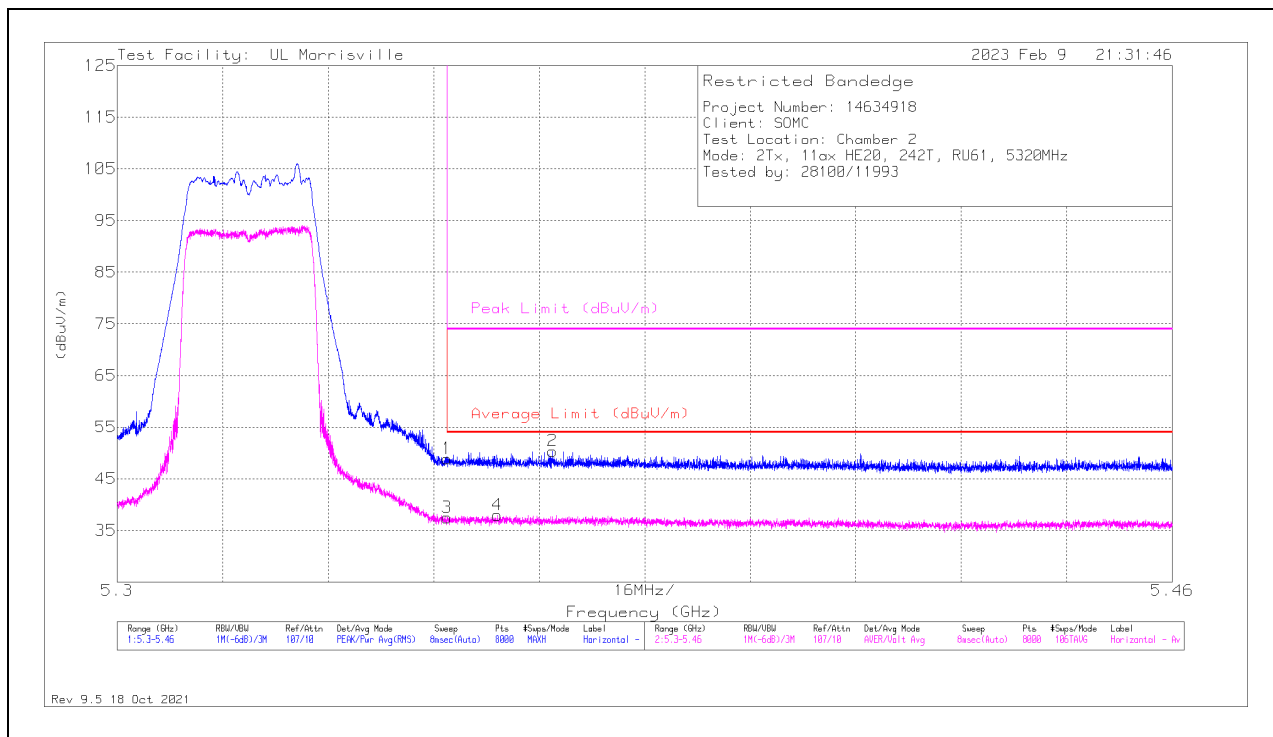
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	35.1	Pk	34.6	-22.7	0	47	-	-	74	-27	309	104	V
2	** 5.35461	37.11	Pk	34.6	-22.8	0	48.91	-	-	74	-25.09	309	104	V
3	*** 5.35001	24.06	ADV	34.6	-22.7	.53	36.49	54	-17.51	-	-	309	104	V
4	*** 5.35221	24.82	ADV	34.6	-22.7	.53	37.25	54	-16.75	-	-	309	104	V

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

2TX 242T MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	36.98	Pk	34.6	-22.7	0	48.88	-	-	74	-25.12	339	107	H
2	*** 5.36603	38.97	Pk	34.5	-23.1	0	50.37	-	-	74	-23.63	339	107	H
3	*** 5.35001	25.08	ADV	34.6	-22.7	.51	37.49	54	-16.51	-	-	339	107	H
4	*** 5.35761	25.75	ADV	34.5	-22.8	.51	37.96	54	-16.04	-	-	339	107	H

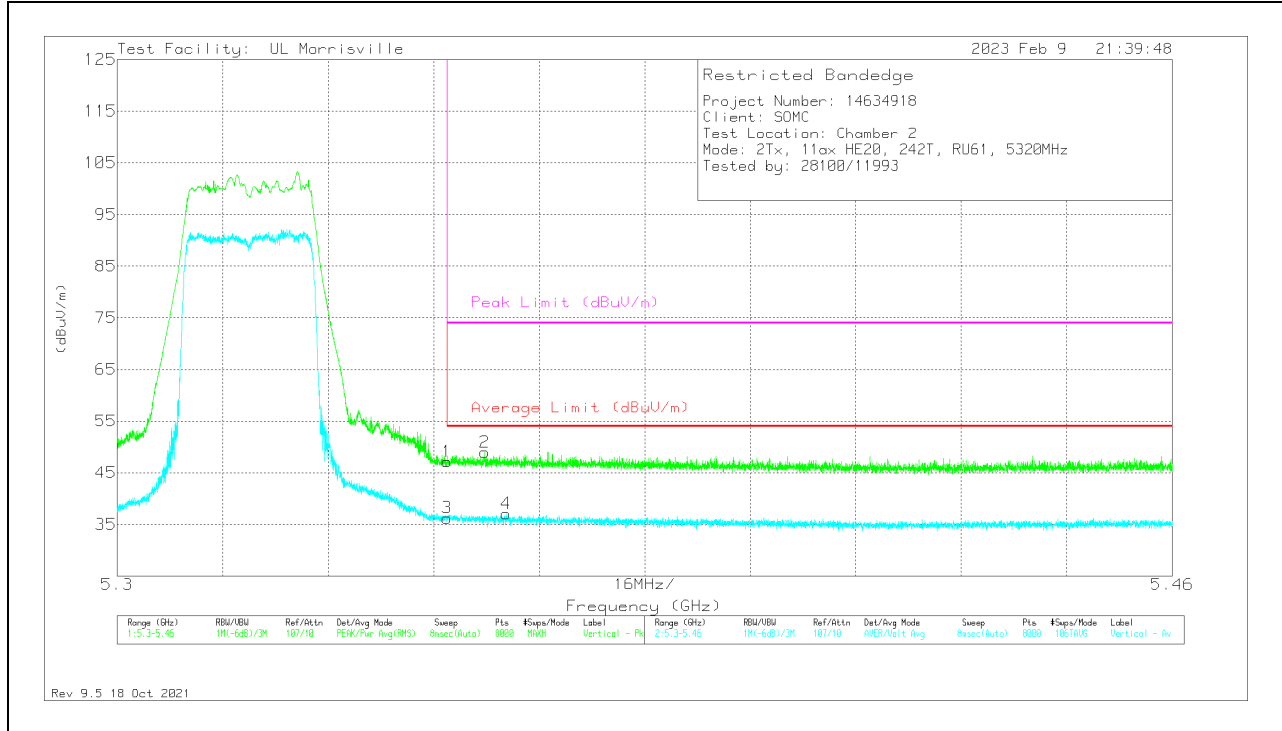
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	35.23	Pk	34.6	-22.7	0	47.13	-	-	74	-26.87	313	104	V
2	** 5.35577	37.17	Pk	34.6	-22.8	0	48.97	-	-	74	-25.03	313	104	V
3	*** 5.35001	23.84	ADV	34.6	-22.7	.51	36.25	54	-17.75	-	-	313	104	V
4	*** 5.35901	24.96	ADV	34.5	-22.9	.51	37.07	54	-16.93	-	-	313	104	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

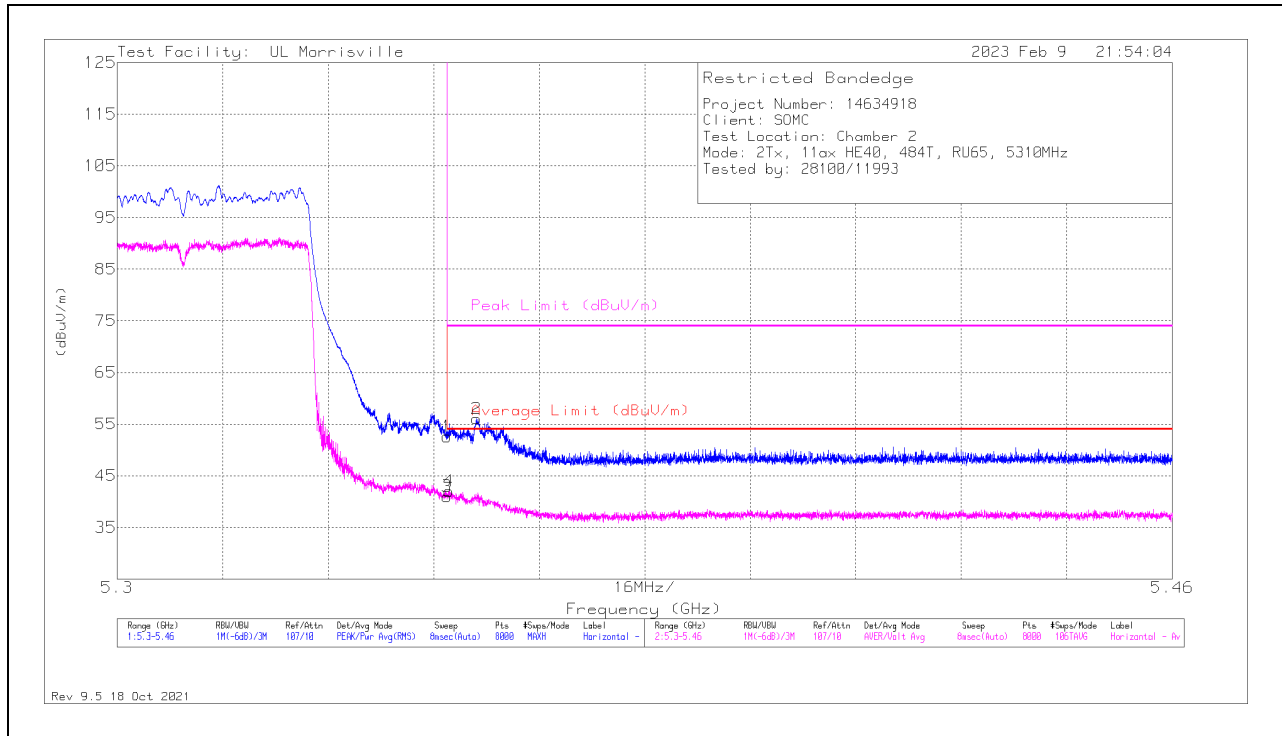
ADV - Linear Voltage Average

10.1.5. 802.11ax HE40 MODE IN THE 5.3GHz BAND

2TX 484T MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	40.7	Pk	34.6	-22.7	0	52.6	-	-	74	-21.4	338	114	H
2	*** 5.35449	44.22	Pk	34.6	-22.8	0	56.02	-	-	74	-17.98	338	114	H
3	*** 5.35001	28.48	ADV	34.6	-22.7	.58	40.96	54	-13.04	-	-	338	114	H
4	*** 5.35031	29.52	ADV	34.6	-22.7	.58	42	54	-12	-	-	338	114	H

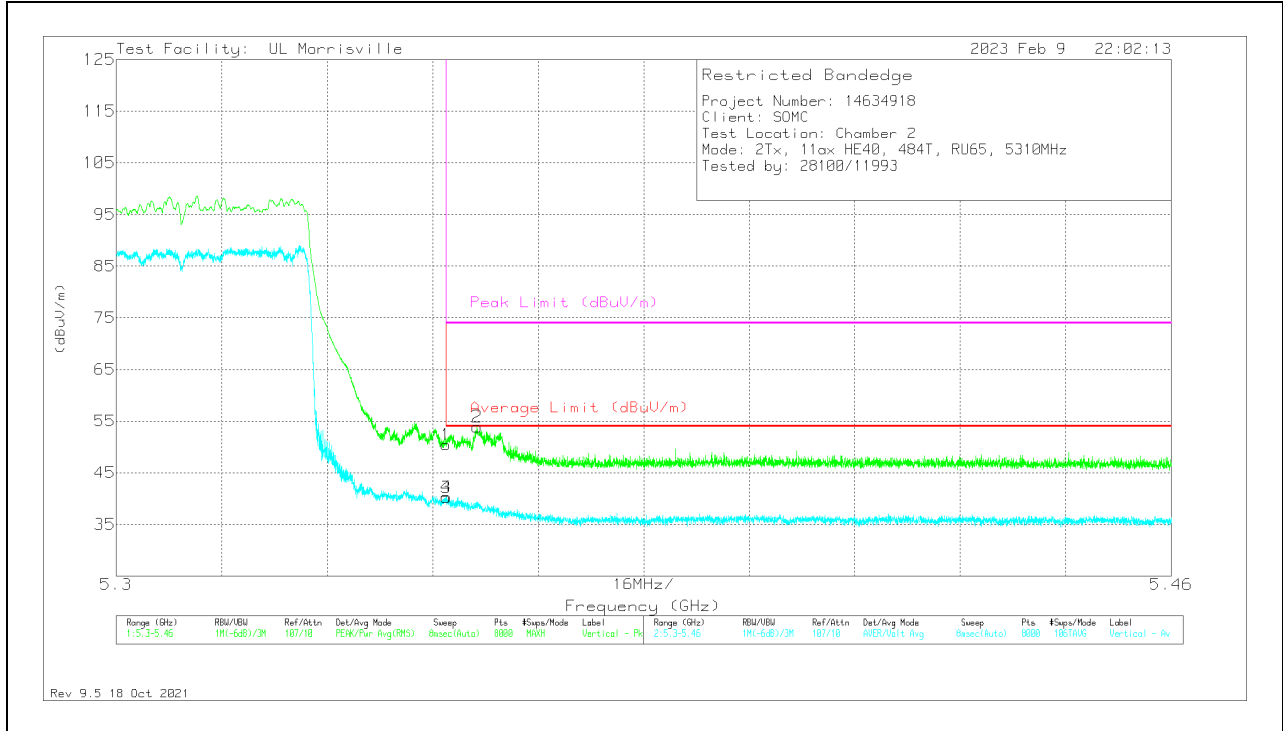
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	38.52	Pk	34.6	-22.7	0	50.42	-	-	74	-23.58	312	125	V
2	*** 5.35473	42.07	Pk	34.6	-22.8	0	53.87	-	-	74	-20.13	312	125	V
3	*** 5.35001	27.7	ADV	34.6	-22.7	.58	40.18	54	-13.82	-	-	312	125	V
4	*** 5.35007	27.8	ADV	34.6	-22.7	.58	40.28	54	-13.72	-	-	312	125	V

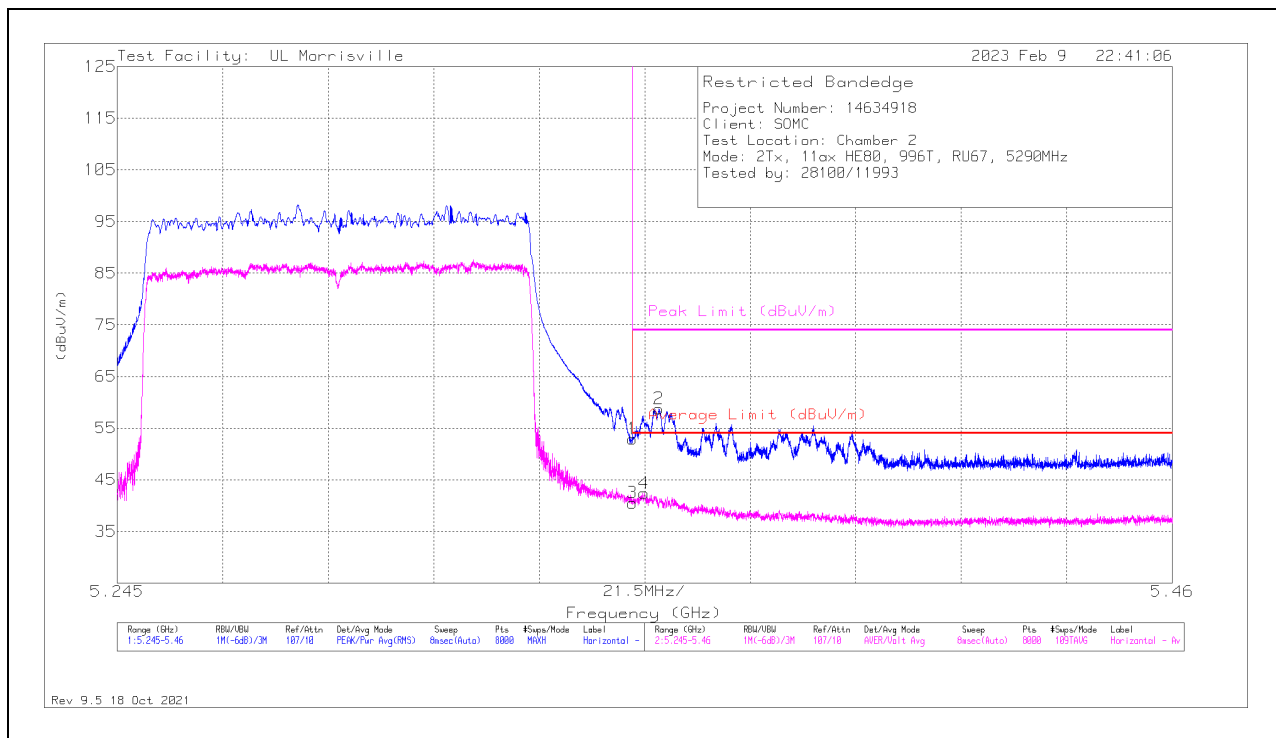
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

10.1.6. 802.11ax HE80 MODE IN THE 5.3GHz BAND

2TX 996T MODE

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	41	Pk	34.6	-22.7	0	52.9	-	-	74	-21.1	338	101	H
2	*** 5.35539	46.94	Pk	34.6	-22.8	0	58.74	-	-	74	-15.26	338	101	H
3	*** 5.35001	27.82	ADV	34.6	-22.7	.8	40.52	54	-13.48	-	-	338	101	H
4	*** 5.35235	29.7	ADV	34.6	-22.7	.8	42.4	54	-11.6	-	-	338	101	H

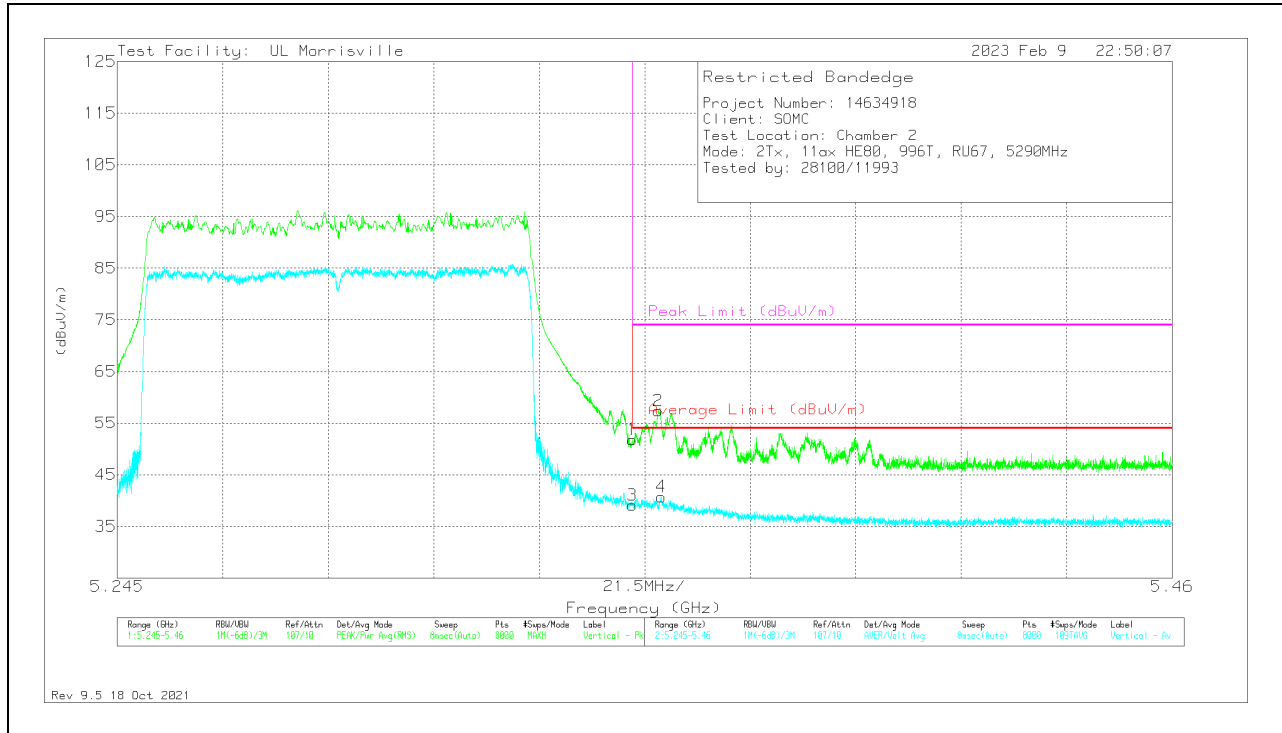
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	39.9	Pk	34.6	-22.7	0	51.8	-	-	74	-22.2	310	111	V
2	** 5.35528	45.58	Pk	34.6	-22.8	0	57.38	-	-	74	-16.62	310	111	V
3	*** 5.35001	26.4	ADV	34.6	-22.7	.8	39.1	54	-14.9	-	-	310	110	V
4	*** 5.3559	28.11	ADV	34.6	-22.8	.8	40.71	54	-13.29	-	-	310	110	V

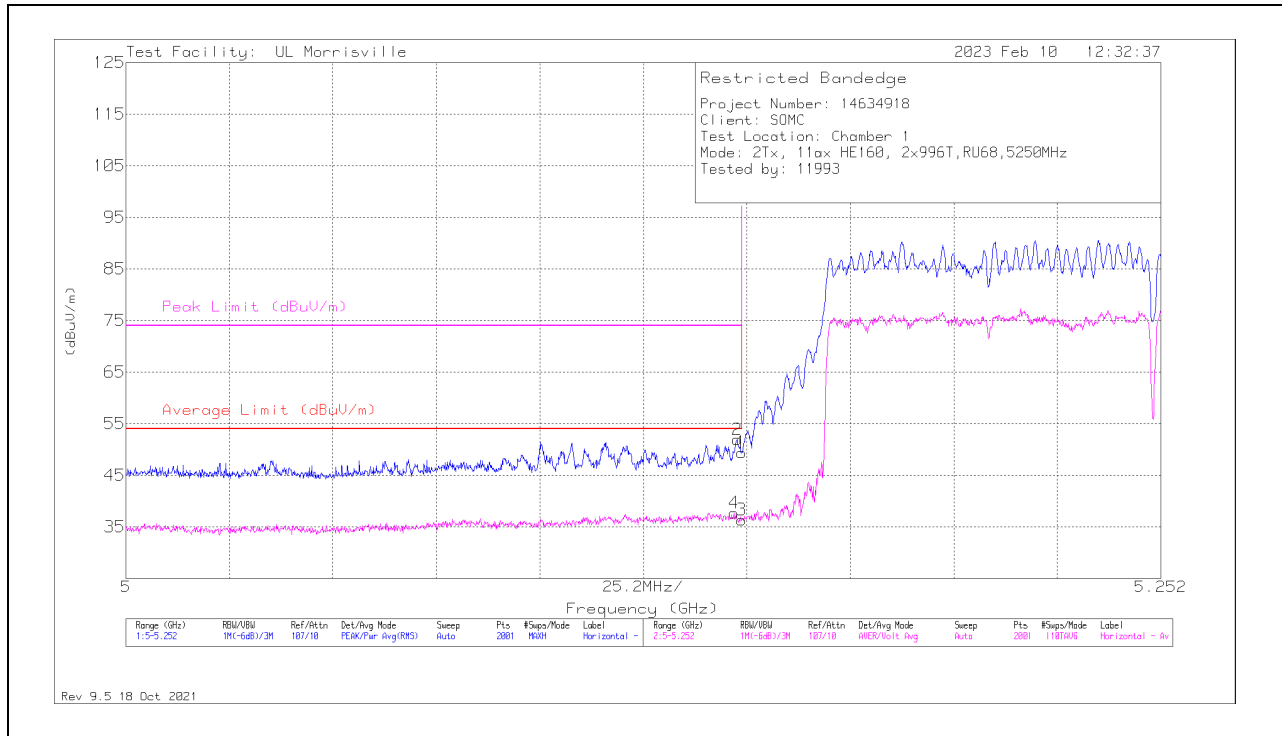
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

10.1.7. 802.11ax HE160 MODE IN THE 5.2GHz & 5.3GHz BAND

2TX 2x996T MODE

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14994	37.02	Pk	34.3	-21.9	0	49.42	-	-	74	-24.58	38	146	H
2	*** 5.14881	39.43	Pk	34.3	-21.8	0	51.93	-	-	74	-22.07	38	146	H
3	*** 5.14994	23.12	ADV	34.3	-21.9	.86	36.38	54	-17.62	-	-	38	146	H
4	*** 5.14805	24.24	ADV	34.3	-21.7	.86	37.7	54	-16.3	-	-	38	146	H

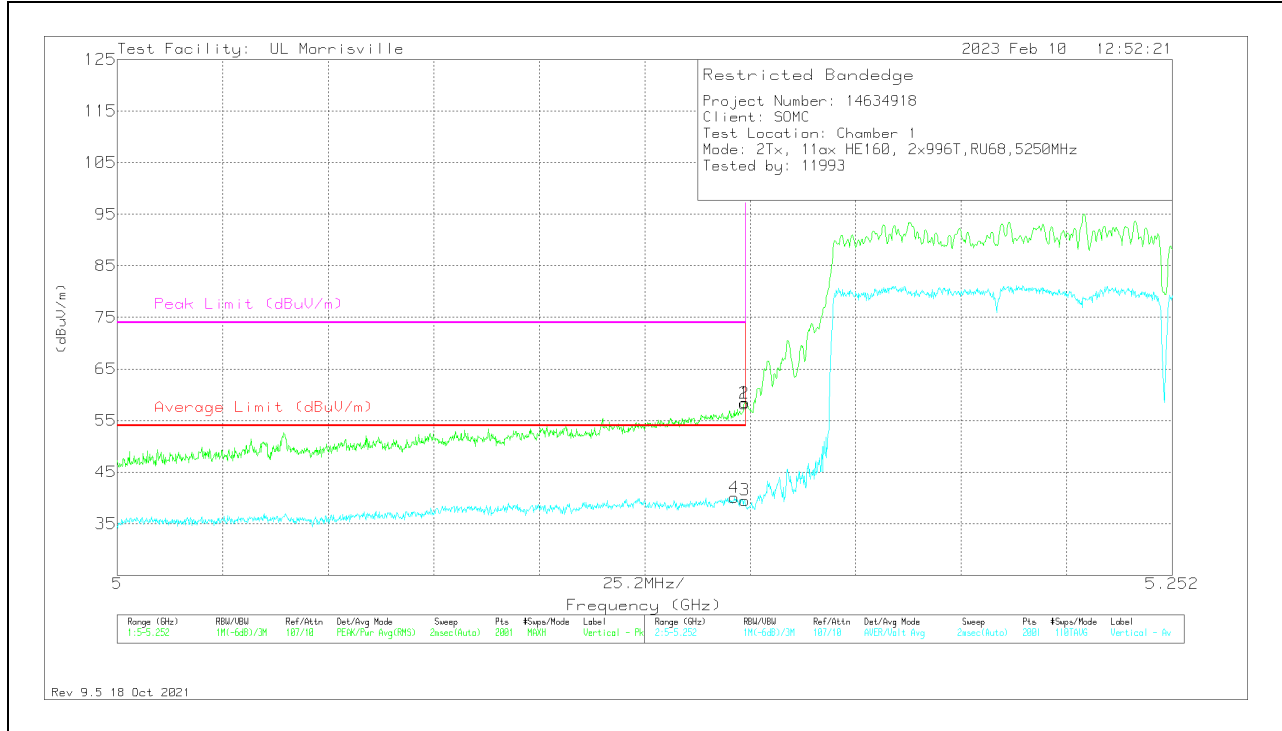
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14994	46.05	Pk	34.3	-21.9	0	58.45	-	-	74	-15.55	315	111	V
2	*** 5.14981	45.91	Pk	34.3	-21.9	0	58.31	-	-	74	-15.69	315	111	V
3	*** 5.14994	26.28	ADV	34.3	-21.9	.86	39.54	54	-14.46	-	-	315	111	V
4	*** 5.14742	26.63	ADV	34.3	-21.7	.86	40.09	54	-13.91	-	-	315	111	V

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

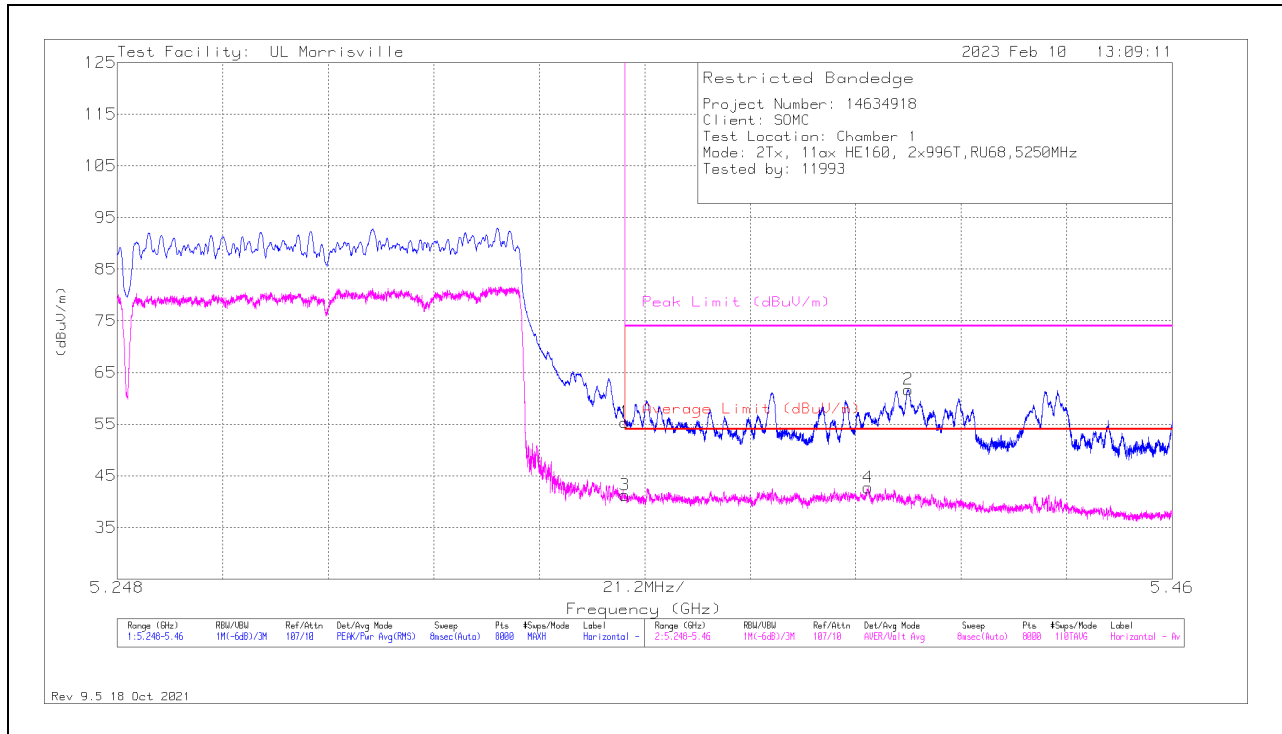
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Average

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	43.14	Pk	34.4	-22.2	0	55.34	-	-	74	-18.66	269	143	H
2	*** 5.40697	49.61	Pk	34.4	-22.3	0	61.71	-	-	74	-12.29	269	143	H
3	* ** 5.35001	28.2	ADV	34.4	-22.2	.86	41.26	54	-12.74	-	-	269	143	H
4	* ** 5.39891	29.67	ADV	34.4	-22.2	.86	42.73	54	-11.27	-	-	269	143	H

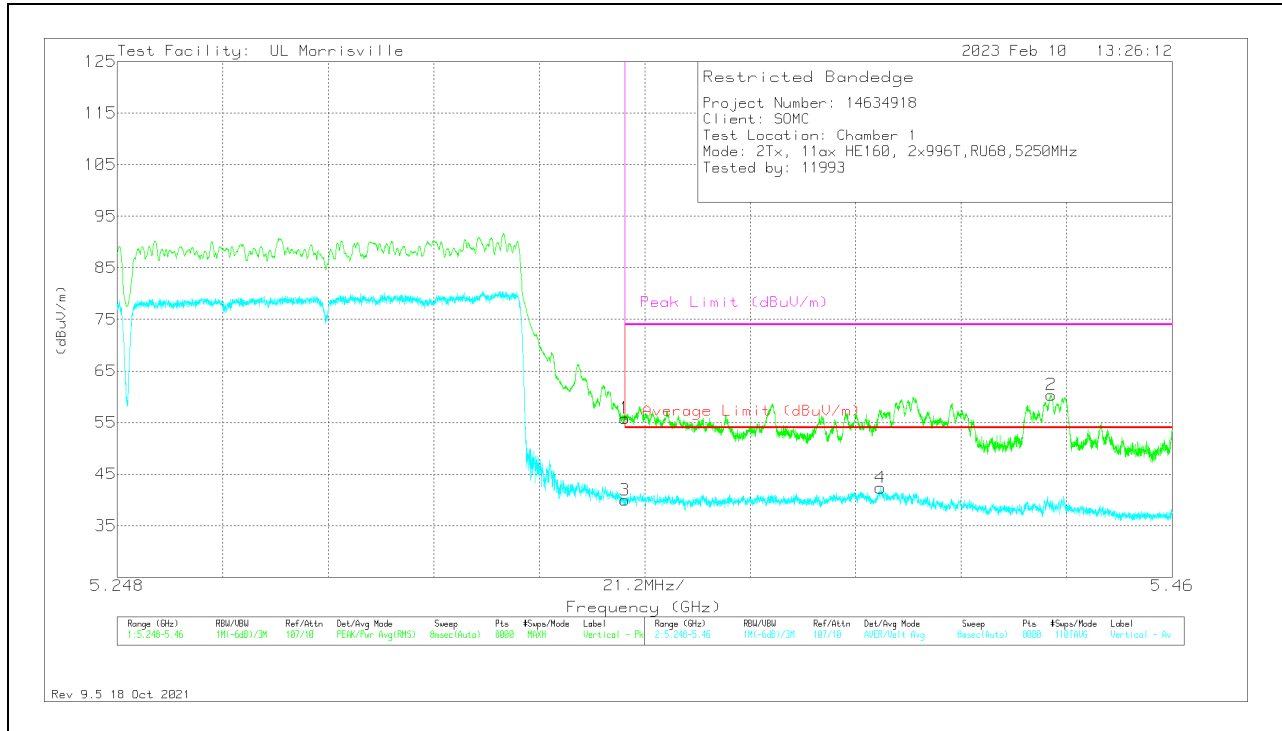
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



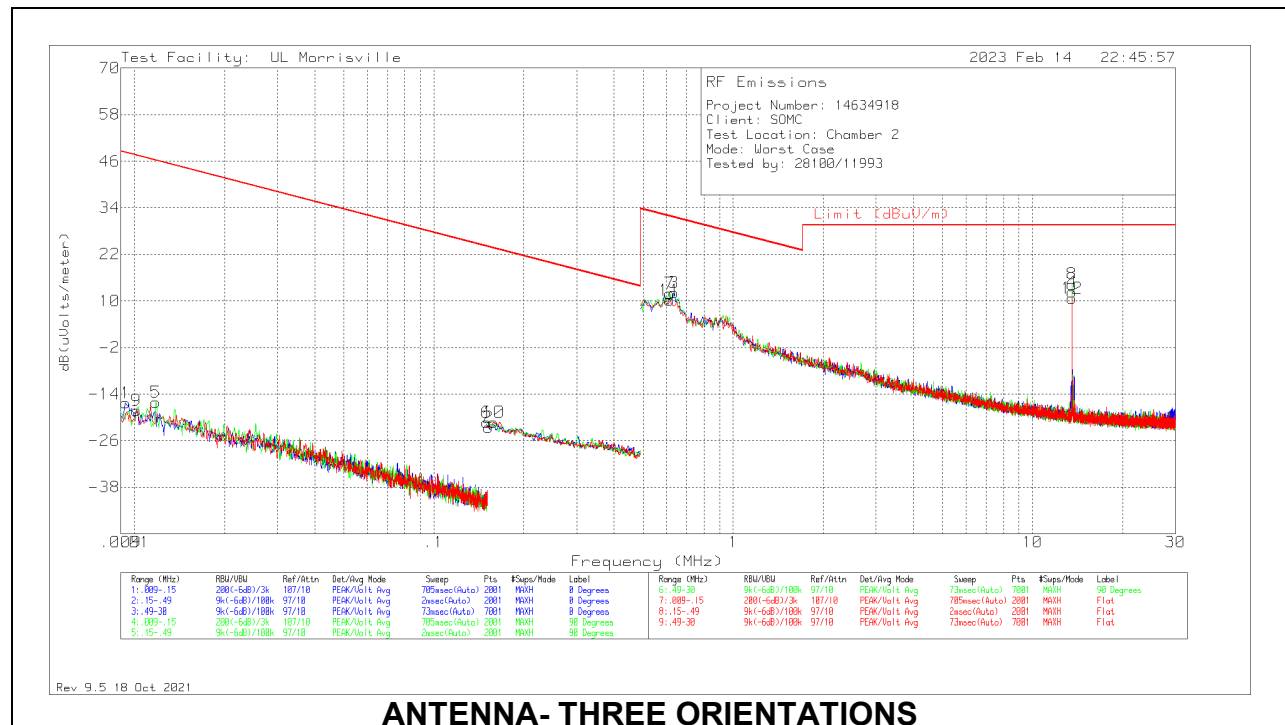
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	43.63	Pk	34.4	-22.2	0	55.83	-	-	74	-18.17	235	115	V
2	*** 5.43567	48.26	Pk	34.4	-22.3	0	60.36	-	-	74	-13.64	235	115	V
3	*** 5.35001	26.9	ADV	34.4	-22.2	.86	39.96	54	-14.04	-	-	235	115	V
4	*** 5.40135	29.29	ADV	34.4	-22.2	.86	42.35	54	-11.65	-	-	235	115	V

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

10.2. TRANSMITTER WORST CASE

10.2.1. SPURIOUS BELOW 30MHZ

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

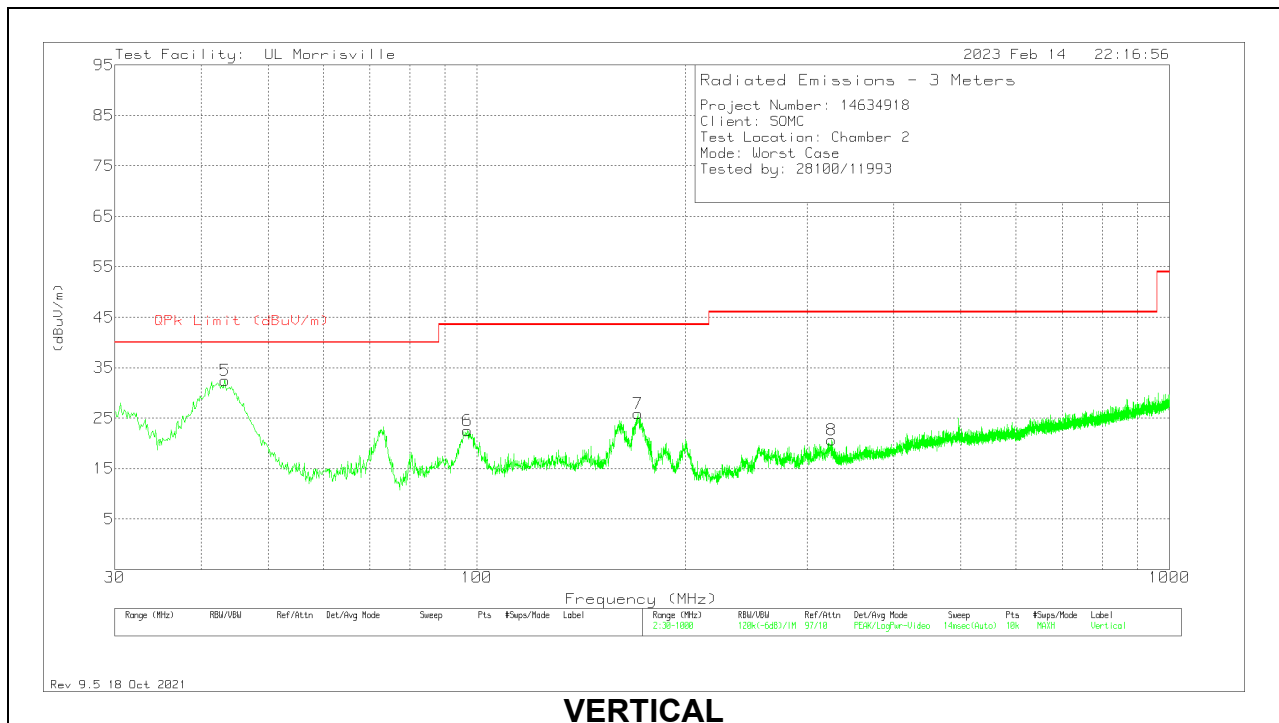
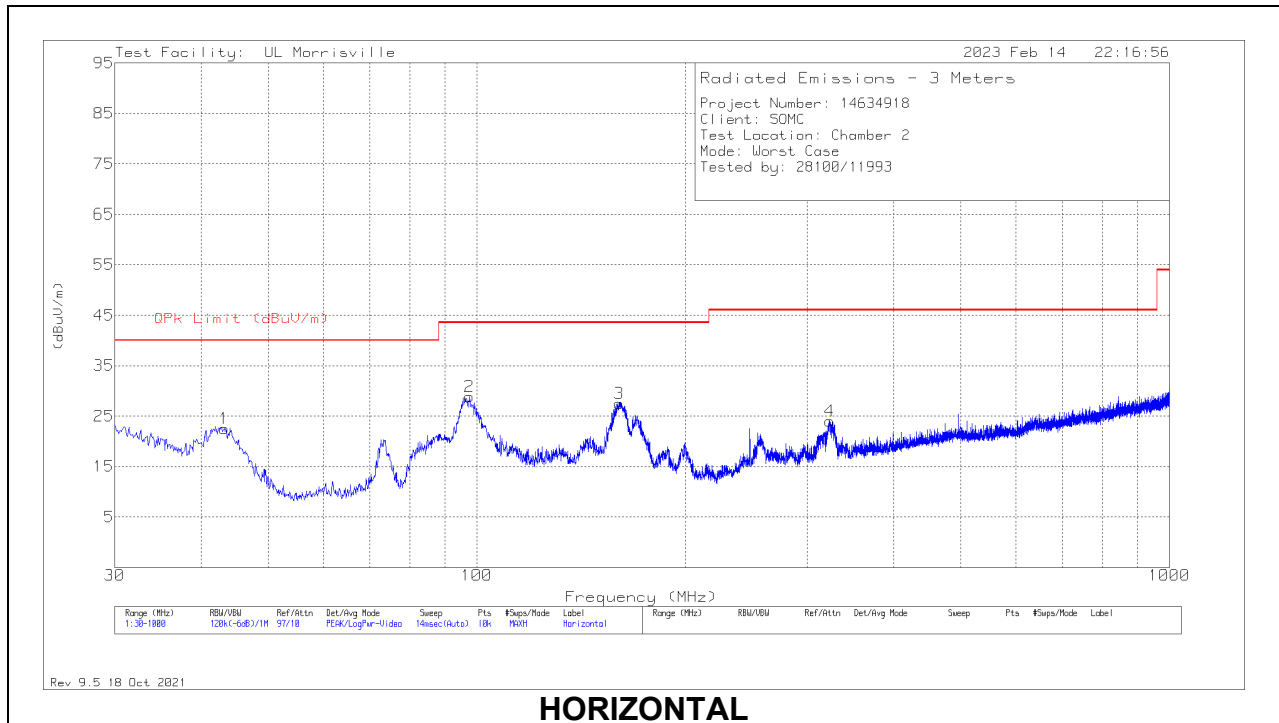


ANTENNA- THREE ORIENTATIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.00936	43.85	Pk	19.8	.1	-80	-16.25	48.18	68.18	-64.43	0-360	0 degs
9	.01014	42.53	Pk	19.2	.1	-80	-18.17	47.49	67.49	-65.66	0-360	Flat
5	.01177	45.29	Pk	18.5	.1	-80	-16.11	46.19	66.19	-62.3	0-360	90 degs
6	.15034	46.39	Pk	12.2	.1	-80	-21.31	24.06	44.06	-45.37	0-360	90 degs
2	.15221	45.09	Pk	12.2	.1	-80	-22.61	23.96	43.96	-46.57	0-360	0 degs
10	.15867	46.46	Pk	12.2	.1	-80	-21.24	23.59	43.59	-44.83	0-360	Flat
7	.61226	39.62	Pk	12.2	.2	-40	12.02	31.87	-	-19.85	0-360	90 degs
11	.61226	37.85	Pk	12.2	.2	-40	10.25	31.87	-	-21.62	0-360	Flat
3	.63334	39.75	Pk	12.2	.2	-40	12.15	31.57	-	-19.42	0-360	0 degs
4	13.5596	40.99	Pk	10.6	.7	-40	12.29	29.54	-	-17.25	0-360	0 degs
8	13.5596	43	Pk	10.6	.7	-40	14.3	29.54	-	-15.24	0-360	90 degs
12	13.5596	39.34	Pk	10.6	.7	-40	10.64	29.54	-	-18.9	0-360	Flat

Pk - Peak detector

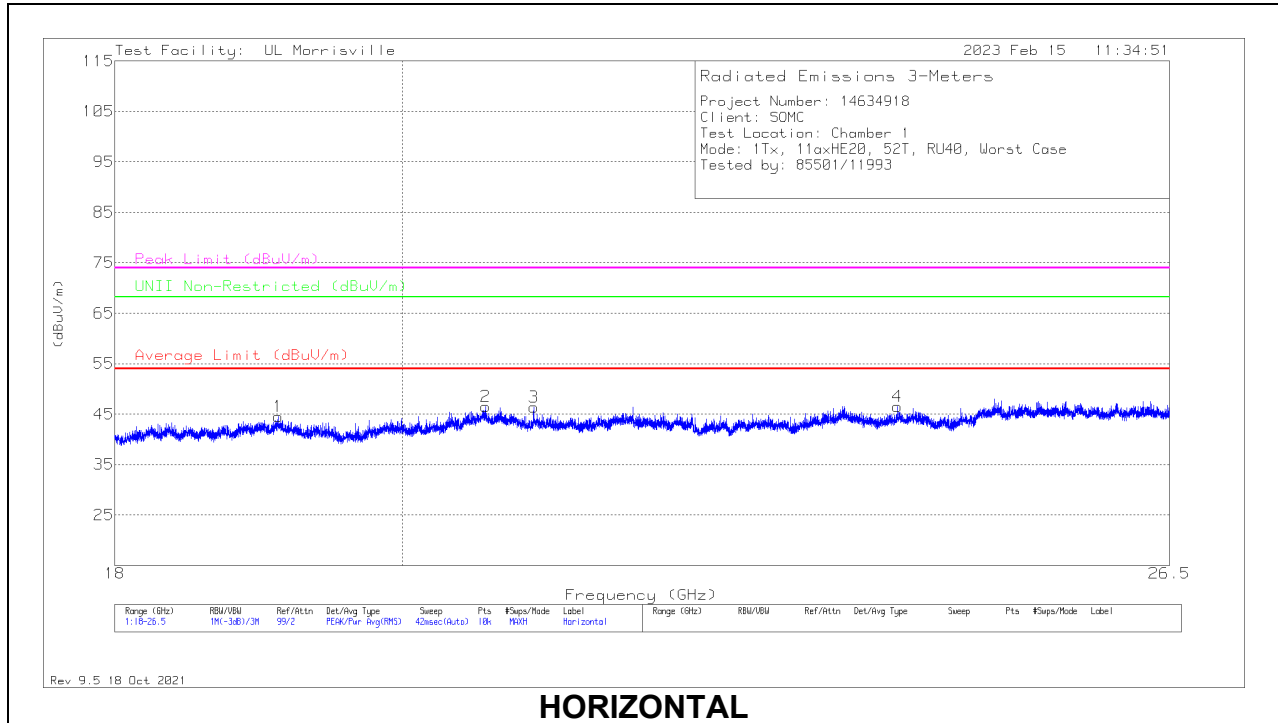
10.2.2. SPURIOUS 30-1000MHZ



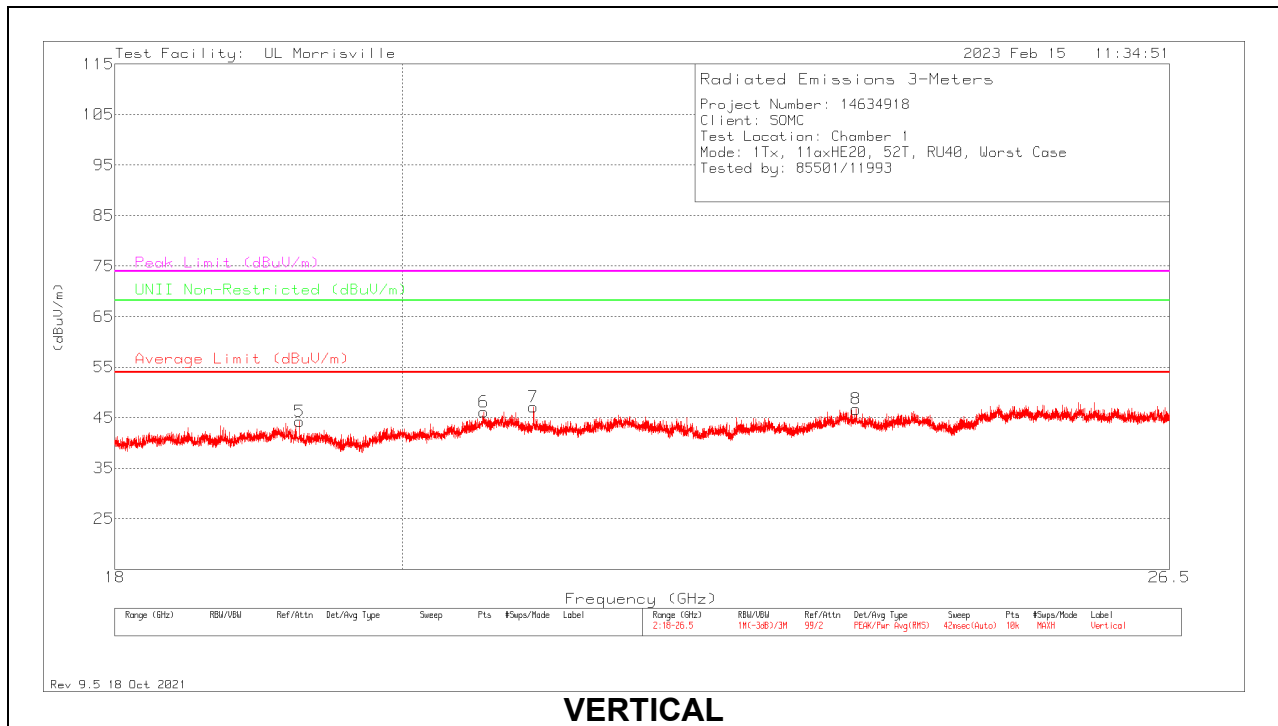
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.192	36.28	Pk	17.6	-31.3	22.58	40	-17.42	0-360	399	H
5	43.289	46.27	Pk	17.5	-31.3	32.47	40	-7.53	0-360	101	V
6	96.93	37.38	Pk	15.6	-30.5	22.48	43.52	-21.04	0-360	299	V
2	97.512	43.46	Pk	15.8	-30.4	28.86	43.52	-14.66	0-360	299	H
3	160.368	38.95	Pk	18.4	-29.9	27.45	43.52	-16.07	0-360	299	H
7	170.747	37.83	Pk	17.9	-29.8	25.93	43.52	-17.59	0-360	101	V
4	322.94	32.76	Pk	20	-28.7	24.06	46.02	-21.96	0-360	99	H
8	325.559	29.32	Pk	20	-28.6	20.72	46.02	-25.3	0-360	199	V

Pk - Peak detector

10.2.3. SPURIOUS 18-26 GHz



HORIZONTAL



VERTICAL

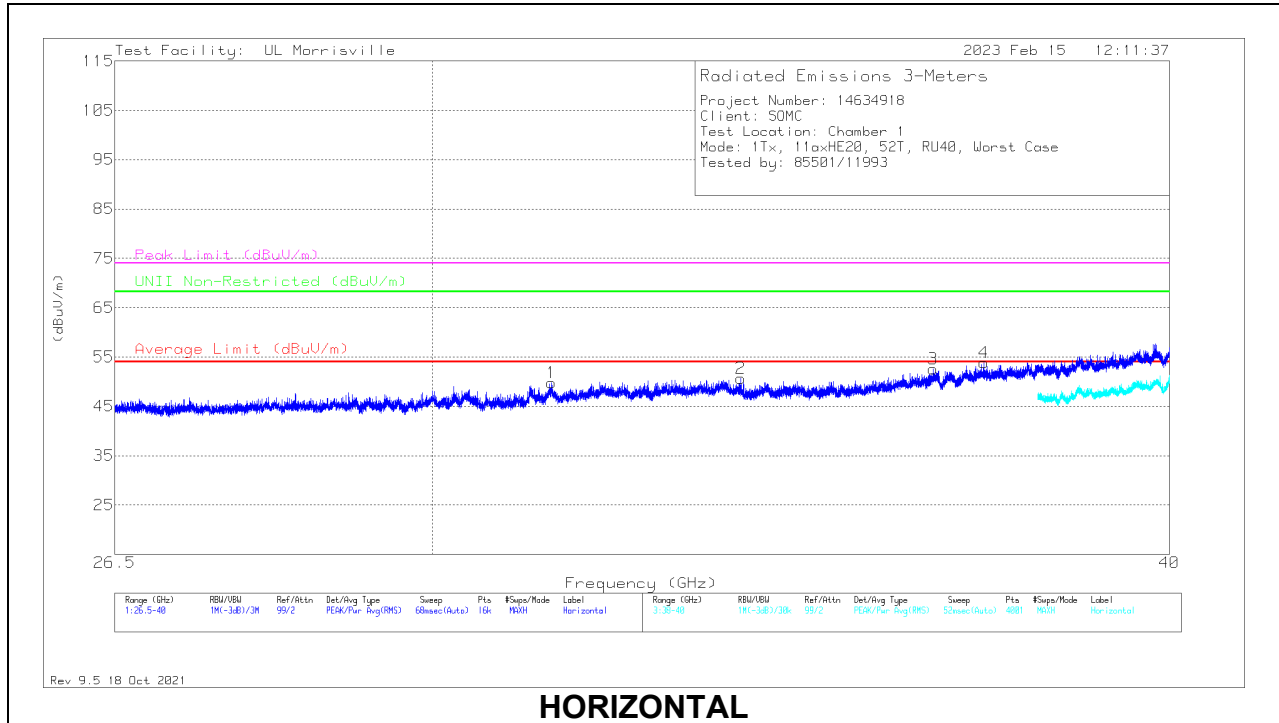
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 19.11254	49.88	Pk	33.8	-39.2	0	44.48	54	-9.52	74	-29.52	-	-	0-360	150	H
2	* ** 20.62114	51.46	Pk	34.1	-39.1	0	46.46	54	-7.54	74	-27.54	-	-	0-360	101	H
3	* ** 20.99	51.56	Pk	34	-39.2	0	46.36	54	-7.64	74	-27.64	-	-	0-360	249	H
4	* ** 23.9851	50.14	Pk	35.1	-38.7	0	46.54	54	-7.46	74	-27.46	-	-	0-360	249	H
5	* ** 19.26212	49.95	Pk	33.7	-39.4	0	44.25	54	-9.75	74	-29.75	-	-	0-360	150	V
6	* ** 20.60839	51.14	Pk	34.1	-39.1	0	46.14	54	-7.86	74	-27.86	-	-	0-360	300	V
7	* ** 20.98745	52.28	Pk	34	-39.2	0	47.08	54	-6.92	74	-26.92	-	-	0-360	101	V
8	* ** 23.62559	50.89	Pk	35.2	-39.4	0	46.69	54	-7.31	74	-27.31	-	-	0-360	150	V

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

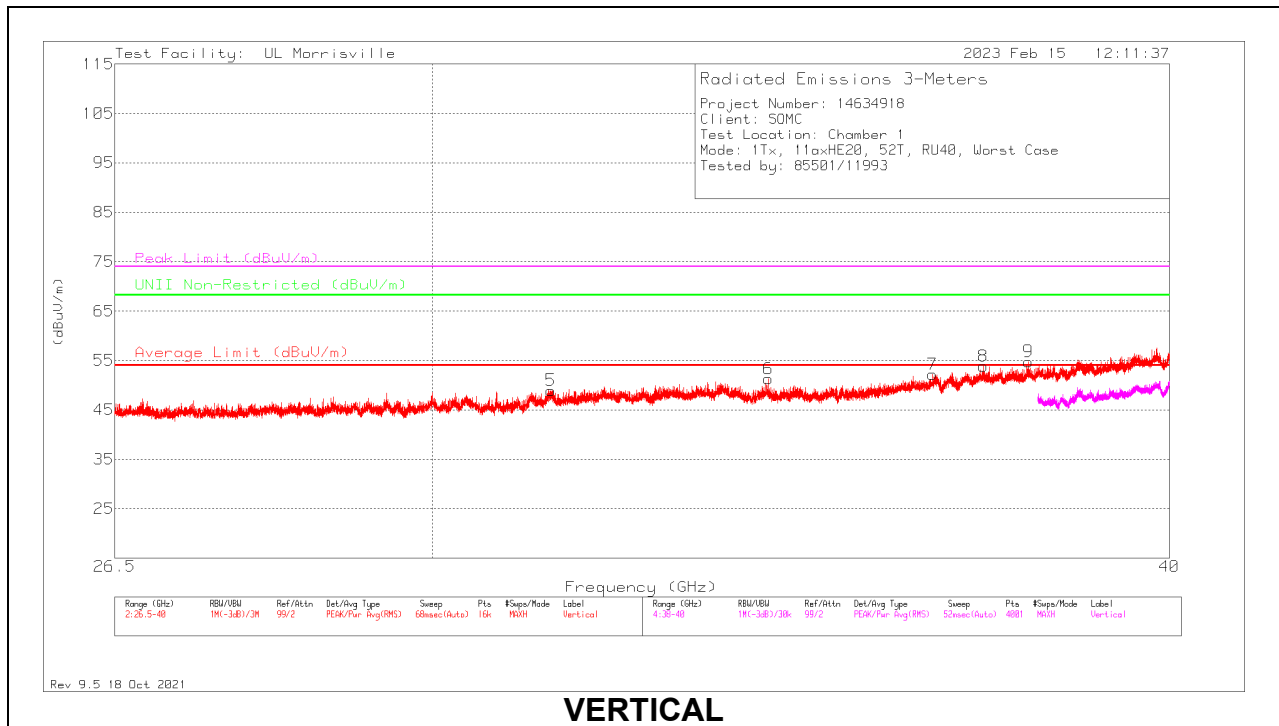
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.2.4. SPURIOUS 26-40 GHz



HORIZONTAL



VERTICAL

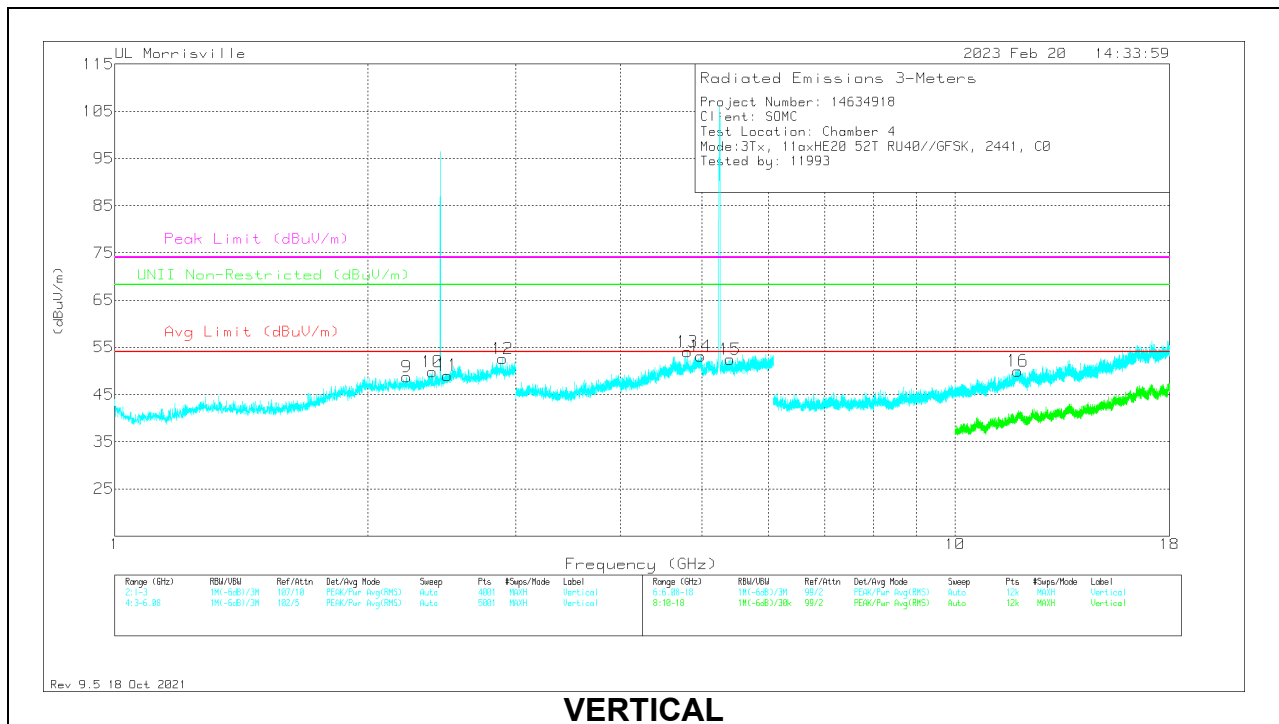
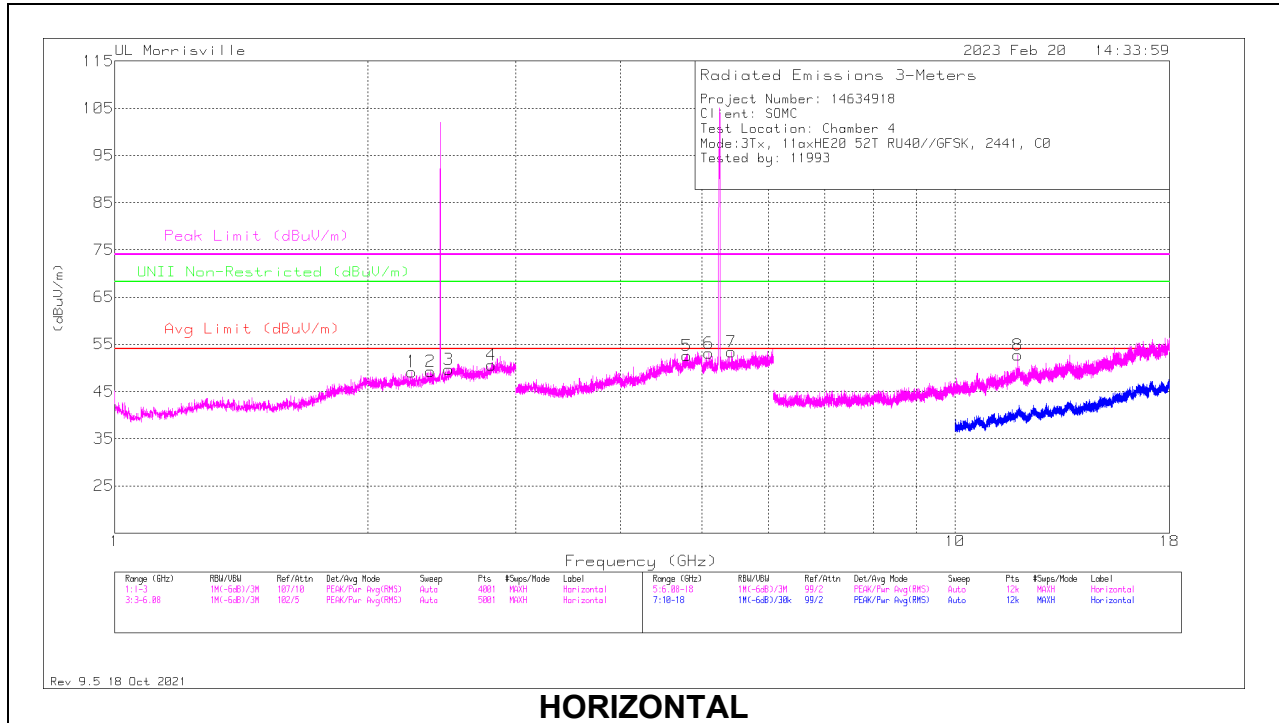
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204705 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 31.42568	49.16	PK-U	37	-35.3	0	50.86	-	-	74	-23.14	-	-	124	344	H
	* ** 31.42568	35.56	ADV	37	-35.3	.49	37.75	54	-16.25	74	-36.49	-	-	124	344	H
3	* ** 36.47849	50.5	PK-U	38.2	-35.4	0	53.3	-	-	74	-20.7	-	-	55	294	H
	* ** 36.47727	37.12	ADV	38.2	-35.4	.49	40.41	54	-13.59	74	-33.83	-	-	55	294	H
5	* ** 31.41598	48.98	PK-U	37	-35.3	0	50.68	-	-	74	-23.32	-	-	253	196	V
	* ** 31.41732	35.51	ADV	37	-35.3	.49	37.70	54	-16.30	74	-36.54	-	-	253	196	V
7	* ** 36.46875	51.02	PK-U	38.2	-35.5	0	53.72	-	-	74	-20.28	-	-	135	353	V
	* ** 36.46876	37.19	ADV	38.2	-35.5	.49	40.38	54	-13.62	74	-33.86	-	-	135	353	V
2	33.83585	49.08	PK-U	37.4	-36	0	50.48	-	-	74	-23.52	68.2	-17.72	254	132	H
	33.83419	35.77	ADV	37.4	-36	.49	37.66	54	-16.34	74	-36.58	-	-	254	132	H
6	34.20408	49.94	PK-U	37.7	-35.9	0	51.74	-	-	74	-22.26	68.2	-16.46	140	203	V
	34.20452	35.78	ADV	37.7	-35.9	.49	39.07	54	-15.97	74	-36.17	-	-	140	203	V
8	37.19684	50.77	PK-U	38.4	-35.1	0	54.07	-	-	74	-19.93	68.2	-14.13	35	115	V
	37.19681	37.46	ADV	38.4	-35.1	.49	41.25	54	-12.75	74	-32.99	-	-	35	115	V
4	37.2075	51.16	PK-U	38.4	-35.1	0	54.46	-	-	74	-19.54	68.2	-13.74	96	152	H
	37.20486	37.63	ADV	38.4	-35.1	.49	41.42	54	-12.78	74	-32.82	-	-	96	152	H
9	37.85668	51.08	PK-U	38.4	-34.4	0	55.08	-	-	74	-18.92	68.2	-13.12	126	155	V
	37.85646	37.65	ADV	38.4	-34.4	.49	42.14	54	-11.86	74	-32.1	-	-	126	155	V

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

10.3. SIMULTANEOUS TRANSMISSION

10.3.1. 802.11ax HE20 2Tx MODE IN THE 5.2GHZ BAND & 1TX BT GFSK MODE IN THE 2.4 GHZ BAND

802.11ax 2Tx, Bluetooth GFSK Chain 0



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.25957	32.01	PK-U	31.9	-14	49.91	-	-	74	-24.09	68.2	-18.29	37	284	H
	*** 2.25372	17.76	V1TV	31.9	-14	35.66	54	-18.34	-	-	-	-	37	284	H
2	*** 2.3758	31.69	PK-U	32.2	-13.7	50.19	-	-	74	-23.81	68.2	-18.01	98	187	H
	*** 2.37451	17.77	V1TV	32.2	-13.6	36.37	54	-17.63	-	-	-	-	98	187	H
3	*** 2.49303	31.71	PK-U	32.6	-13.6	50.71	-	-	74	-23.29	68.2	-17.49	344	287	H
	*** 2.49628	18.74	V1TV	32.6	-13.6	37.74	54	-16.26	-	-	-	-	344	287	H
4	*** 2.80482	31.65	PK-U	32.6	-12.9	51.35	-	-	74	-22.65	68.2	-16.85	327	259	H
	*** 2.80366	17.98	V1TV	32.6	-13	37.58	54	-16.42	-	-	-	-	327	259	H
9	*** 2.22622	31.3	PK-U	32	-13.9	49.4	-	-	74	-24.6	68.2	-18.8	70	158	V
	*** 2.22314	17.58	V1TV	32	-13.8	35.78	54	-18.22	-	-	-	-	70	158	V
10	*** 2.38868	31.57	PK-U	32.2	-13.6	50.17	-	-	74	-23.83	68.2	-18.03	246	190	V
	*** 2.36199	17.86	V1TV	32.2	-13.7	36.36	54	-17.64	-	-	-	-	246	190	V
11	*** 2.48893	31.97	PK-U	32.6	-13.6	50.97	-	-	74	-23.03	68.2	-17.23	212	149	V
	*** 2.48774	18.54	V1TV	32.6	-13.6	37.54	54	-16.46	-	-	-	-	212	149	V
12	*** 2.89065	32.72	PK-U	32.6	-12.8	52.52	-	-	74	-21.48	68.2	-15.68	208	345	V
	*** 2.89099	18.56	V1TV	32.6	-12.8	38.36	54	-15.64	-	-	-	-	208	345	V
5	*** 4.79972	30.07	PK-U	34.1	-10.6	53.57	-	-	74	-20.43	68.2	-14.63	26	204	H
	*** 4.79909	15.91	V1TV	34.1	-10.6	39.41	54	-14.59	-	-	-	-	26	204	H
6	*** 5.09629	29.84	PK-U	34.1	-10.1	53.84	-	-	74	-20.16	68.2	-14.36	212	144	H
	*** 5.09639	15.39	V1TV	34.1	-10.1	39.39	54	-14.61	-	-	-	-	212	144	H
7	*** 5.42136	28.49	PK-U	34.6	-9.7	53.39	-	-	74	-20.61	68.2	-14.81	68	364	H
	*** 5.42076	14.58	V1TV	34.6	-9.7	39.48	54	-14.52	-	-	-	-	68	364	H
13	*** 4.8038	30.02	PK-U	34.1	-10.5	53.62	-	-	74	-20.38	68.2	-14.58	15	137	V
	*** 4.80577	15.79	V1TV	34.1	-10.5	39.39	54	-14.61	-	-	-	-	15	137	V
14	*** 4.97957	30.56	PK-U	34	-10.4	54.16	-	-	74	-19.84	68.2	-14.04	153	308	V
	*** 4.97988	16.68	V1TV	34	-10.4	40.28	54	-13.72	-	-	-	-	153	308	V
15	*** 5.39741	28.83	PK-U	34.6	-9.7	53.73	-	-	74	-20.27	68.2	-14.47	119	218	V
	*** 5.39883	14.79	V1TV	34.6	-9.7	39.69	54	-14.31	-	-	-	-	119	218	V
8	*** 11.88249	34.8	PK-U	38.7	-23.8	49.7	-	-	74	-24.3	68.2	-18.5	43	305	H
	*** 11.88434	20.62	V1TV	38.7	-23.8	35.52	54	-18.48	-	-	-	-	43	305	H
16	*** 11.88278	34.86	PK-U	38.7	-23.8	49.76	-	-	74	-24.24	68.2	-18.44	83	226	V
	*** 11.88261	20.65	V1TV	38.7	-23.8	35.55	54	-18.45	-	-	-	-	83	226	V

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

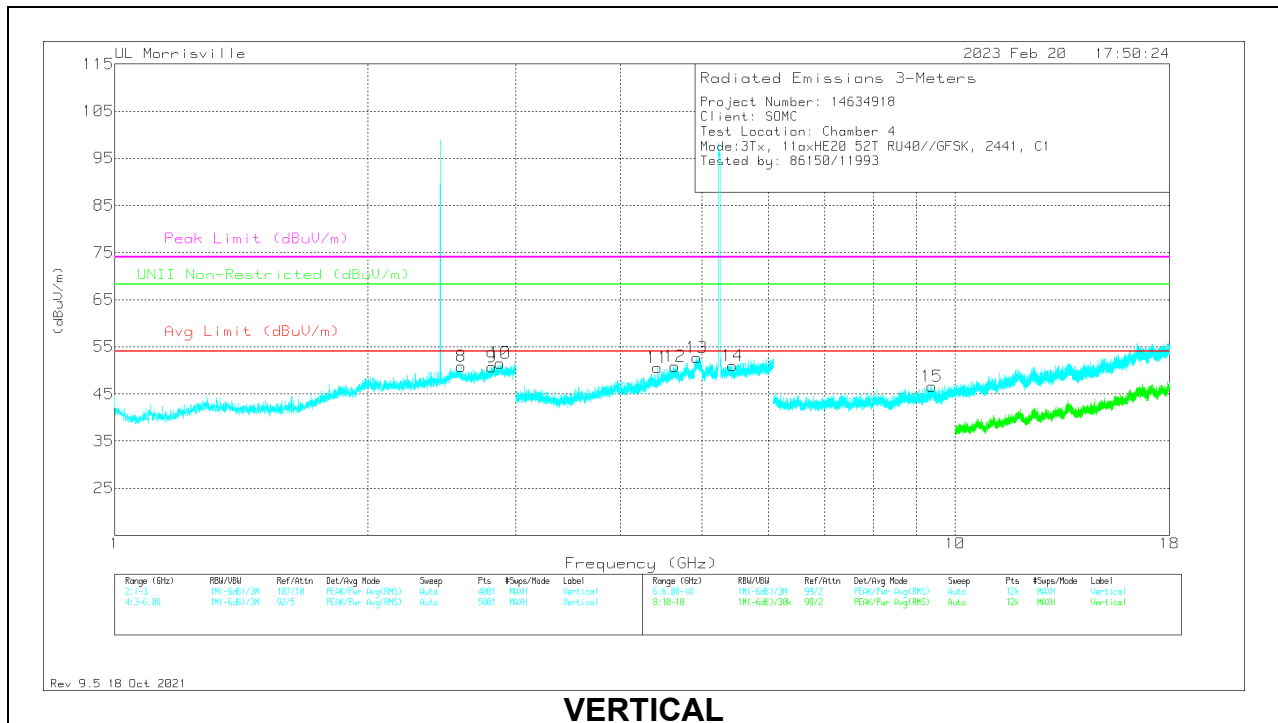
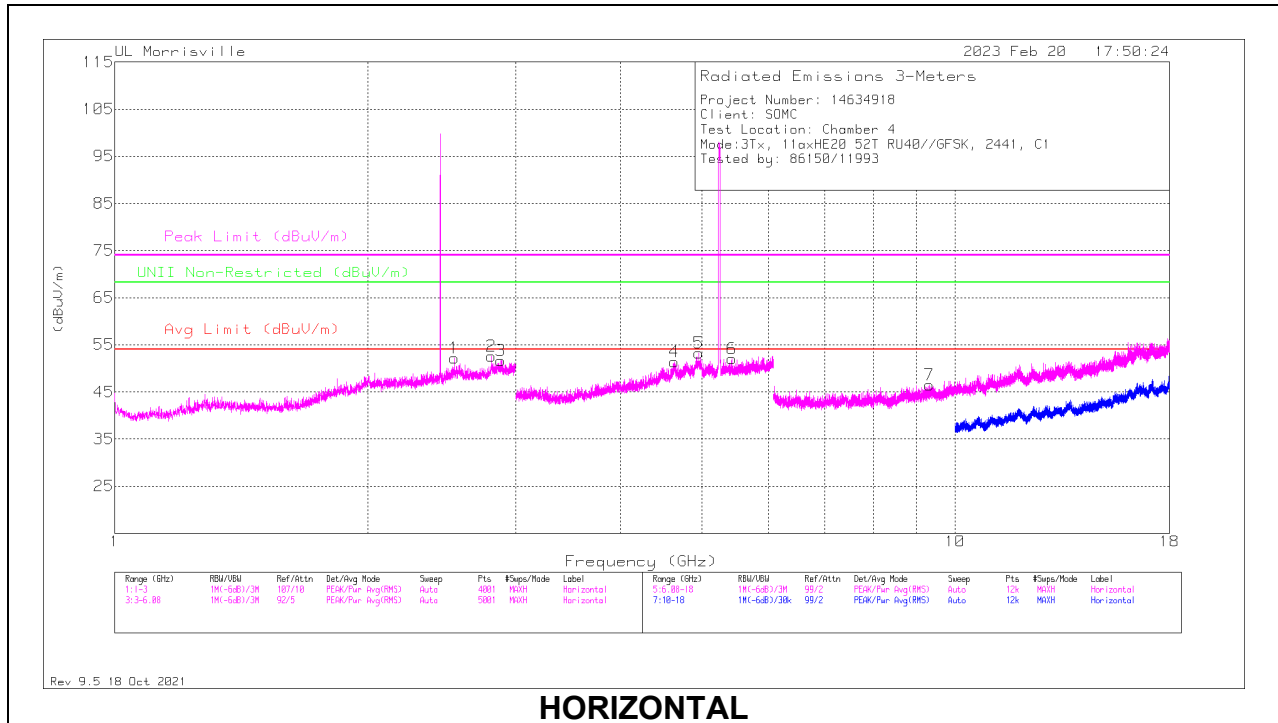
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK-U - Maximum Peak

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

802.11ax 2Tx, Bluetooth GFSK Chain 1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.53754	32.29	PK-U	32.8	-13.4	51.69	-	-	74	-22.31	68.2	-16.51	260	249	H
	** 2.53758	18.69	V1TV	32.8	-13.4	38.09	54	-15.91	-	-	-	-	260	249	H
2	*** 2.80563	32.31	PK-U	32.6	-12.9	52.01	-	-	74	-21.99	68.2	-16.19	173	107	H
	*** 2.80427	17.99	V1TV	32.6	-12.9	37.69	54	-16.31	-	-	-	-	173	107	H
3	*** 2.87965	32.95	PK-U	32.7	-12.6	53.05	-	-	74	-20.95	68.2	-15.15	51	201	H
	*** 2.87872	18.67	V1TV	32.7	-12.6	38.77	54	-15.23	-	-	-	-	51	201	H
8	** 2.58226	31.67	PK-U	32.7	-13.4	50.97	-	-	74	-23.03	68.2	-17.23	128	354	V
	** 2.58275	18.44	V1TV	32.7	-13.4	37.74	54	-16.26	-	-	-	-	128	354	V
9	*** 2.81055	32.21	PK-U	32.6	-12.7	52.11	-	-	74	-21.89	68.2	-16.09	18	326	V
	*** 2.81359	18.06	V1TV	32.6	-12.6	38.06	54	-15.94	-	-	-	-	18	326	V
10	*** 2.87515	32.25	PK-U	32.7	-12.6	52.35	-	-	74	-21.65	68.2	-15.85	28	203	V
	*** 2.87591	18.43	V1TV	32.7	-12.6	38.53	54	-15.47	-	-	-	-	28	203	V
4	*** 4.63291	29.26	PK-U	34.1	-10.6	52.76	-	-	74	-21.24	68.2	-15.44	26	368	H
	*** 4.63005	15.3	V1TV	34.1	-10.6	38.8	54	-15.2	-	-	-	-	26	368	H
5	*** 4.95444	30.03	PK-U	34	-10.4	53.63	-	-	74	-20.37	68.2	-14.57	353	204	H
	*** 4.95125	16.29	V1TV	34	-10.4	39.89	54	-14.11	-	-	-	-	353	204	H
6	*** 5.42811	27.74	PK-U	34.6	-9.6	52.74	-	-	74	-21.26	68.2	-15.46	135	171	H
	*** 5.42627	13.75	V1TV	34.6	-9.6	38.75	54	-15.25	-	-	-	-	135	171	H
12	*** 4.6408	29.14	PK-U	34.1	-10.7	52.54	-	-	74	-21.46	68.2	-15.66	181	293	V
	*** 4.64074	15.02	V1TV	34.1	-10.7	38.42	54	-15.58	-	-	-	-	181	293	V
13	*** 4.92615	30.24	PK-U	34	-10.3	53.94	-	-	74	-20.06	68.2	-14.26	306	113	V
	*** 4.92708	16.23	V1TV	34	-10.3	39.93	54	-14.07	-	-	-	-	306	113	V
14	*** 5.43916	28.04	PK-U	34.6	-9.7	52.94	-	-	74	-21.06	68.2	-15.26	200	307	V
	*** 5.44129	13.58	V1TV	34.6	-9.7	38.48	54	-15.52	-	-	-	-	200	307	V
7	*** 9.32323	35.87	Pk	36.4	-25.8	46.47	54	-7.53	74	-27.53	68.2	-21.73	0-360	100	H
15	*** 9.38283	35.61	Pk	36.5	-25.5	46.61	54	-7.39	74	-27.39	68.2	-21.59	0-360	200	V
11	4.42666	27.87	Pk	33.7	-11	50.57	-	-	-	-	68.2	-17.63	0-360	200	V

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

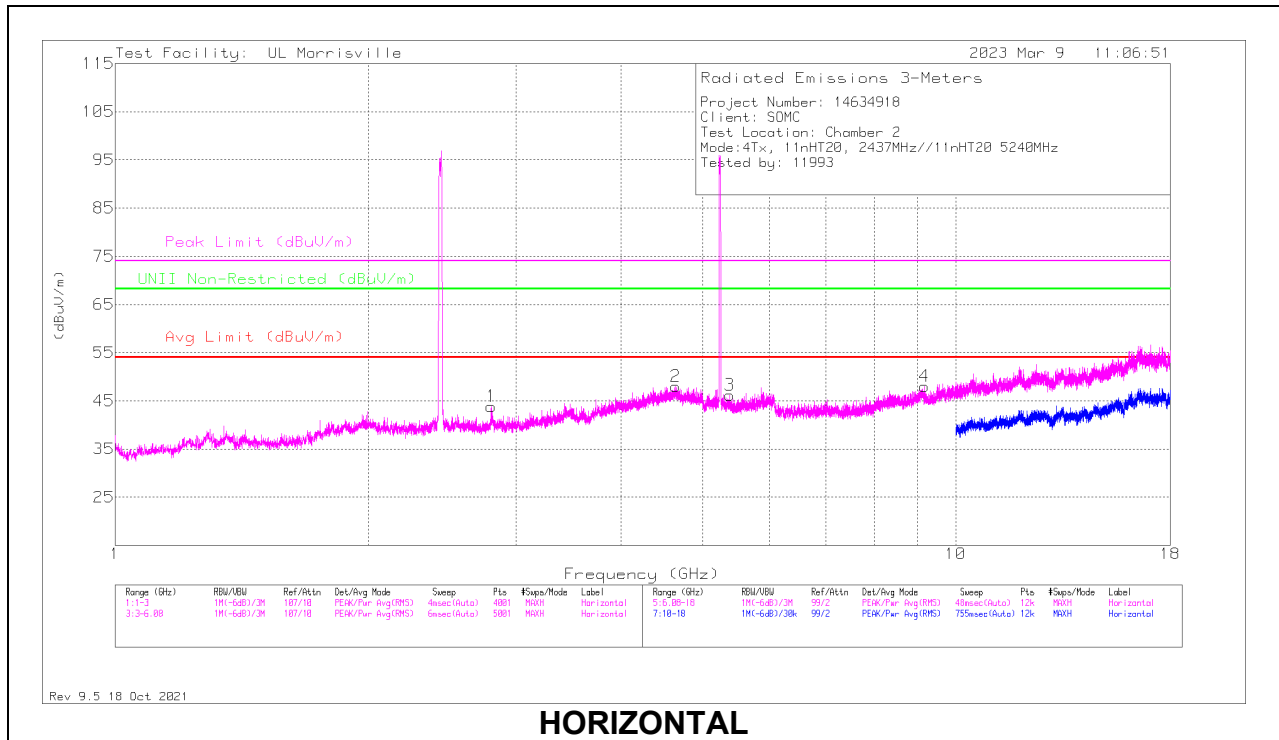
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

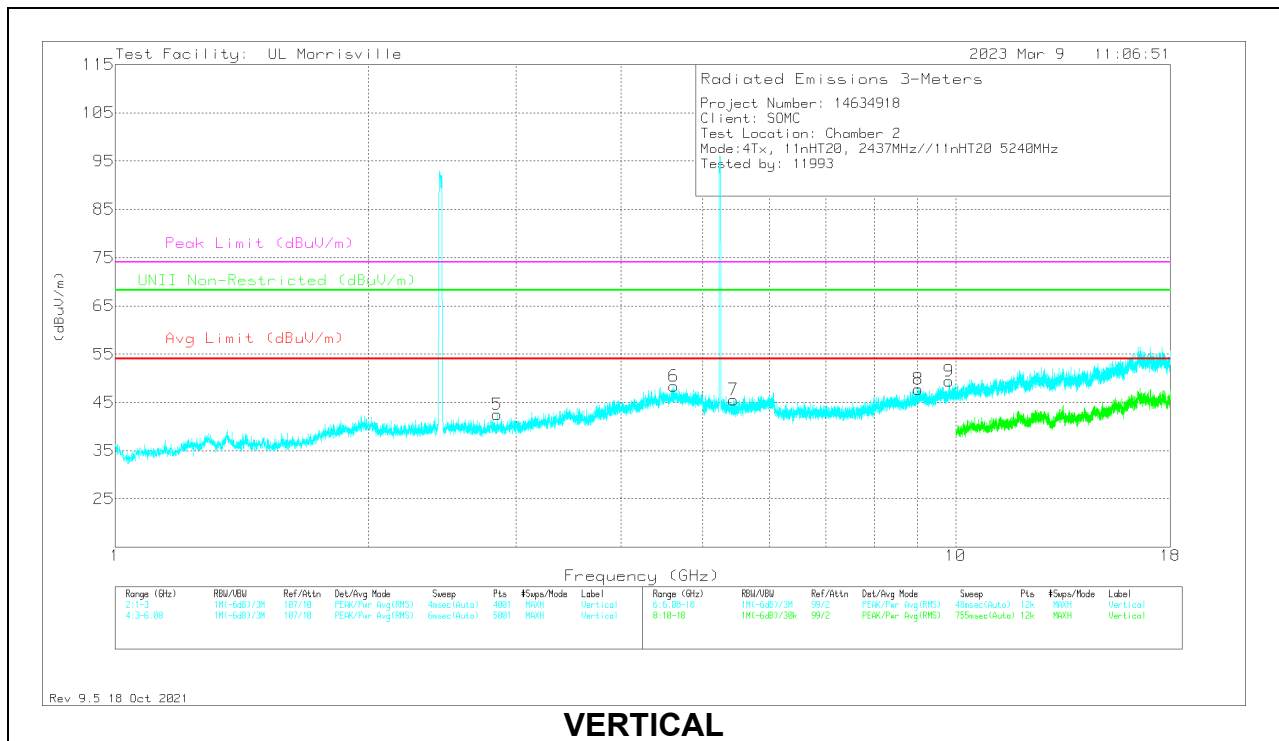
PK-U - Maximum Peak

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

10.3.2. 802.11n HT20 MODE IN THE 5.2GHZ BAND & 1TX 802.11n HT20 MODE IN THE 2.4 GHZ BAND



HORIZONTAL



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.8015	37.16	Pk	32.6	-25.9	43.86	54	-10.14	74	-30.14	68.2	-24.34	0-360	101	H
5	*** 2.848	35.81	Pk	32.5	-25.8	42.51	54	-11.49	74	-31.49	68.2	-25.69	0-360	199	V
2	*** 4.64472	34.89	Pk	34.1	-21	47.99	54	-6.01	74	-26.01	68.2	-20.21	0-360	199	H
3	*** 5.38146	34.9	Pk	34.4	-23.1	46.2	54	-7.8	74	-27.8	68.2	-22	0-360	101	H
6	*** 4.62074	36.24	PK-U	34.1	-21	49.34	-	-	74	-24.66	68.2	-18.86	134	279	V
	*** 4.62054	23.23	ADV	34.1	-21	36.33	54	-17.67	-	-	-	-	134	279	V
7	*** 5.43998	34.65	Pk	34.4	-23.5	45.55	54	-8.45	74	-28.45	68.2	-22.65	0-360	101	V
4	*** 9.18249	38.66	PK-U	36.3	-26.2	48.76	-	-	74	-25.24	68.2	-19.44	26	348	H
	*** 9.18192	26.17	ADV	36.3	-26.2	36.27	54	-17.73	-	-	-	-	26	348	H
8	*** 9.01927	38.34	Pk	36.2	-26.8	47.74	54	-6.26	74	-26.26	68.2	-20.46	0-360	200	V
9	9.81931	37.57	PK-U	36.9	-25.2	49.27	-	-	-	-	68.2	-18.93	242	196	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK-U - Maximum Peak

ADV - Linear Voltage Average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

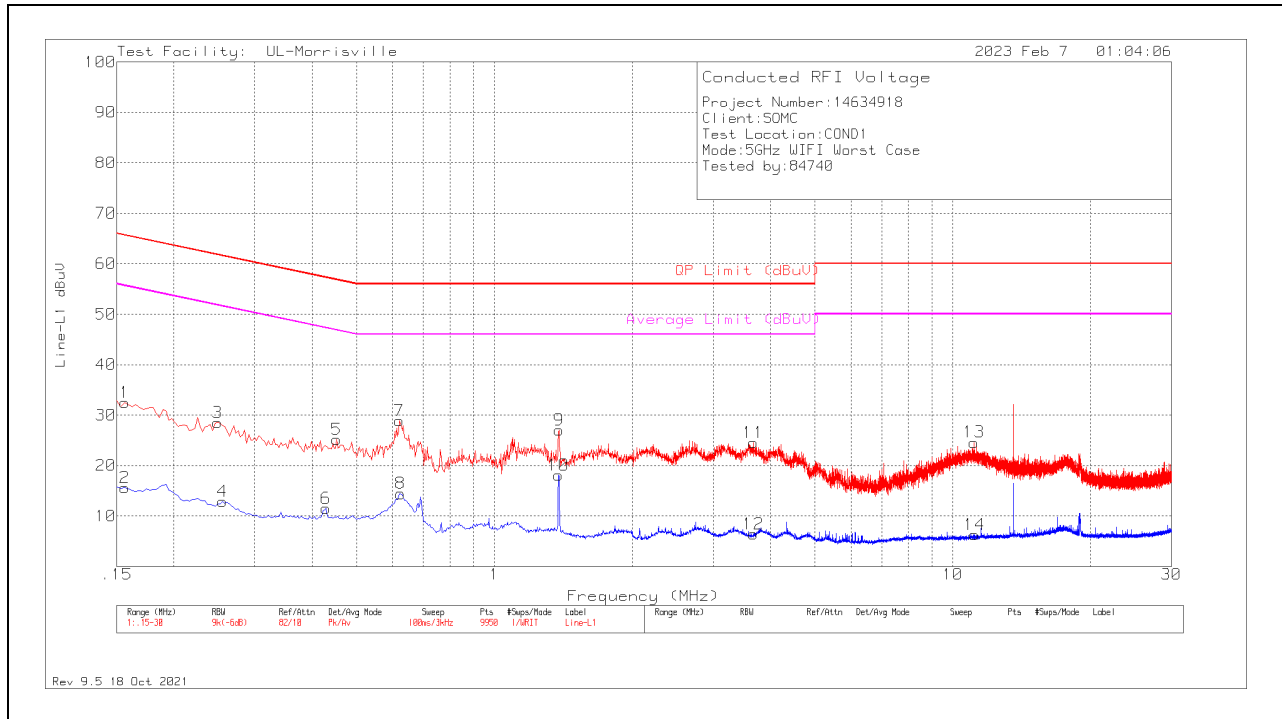
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1. AC Power Line Norm

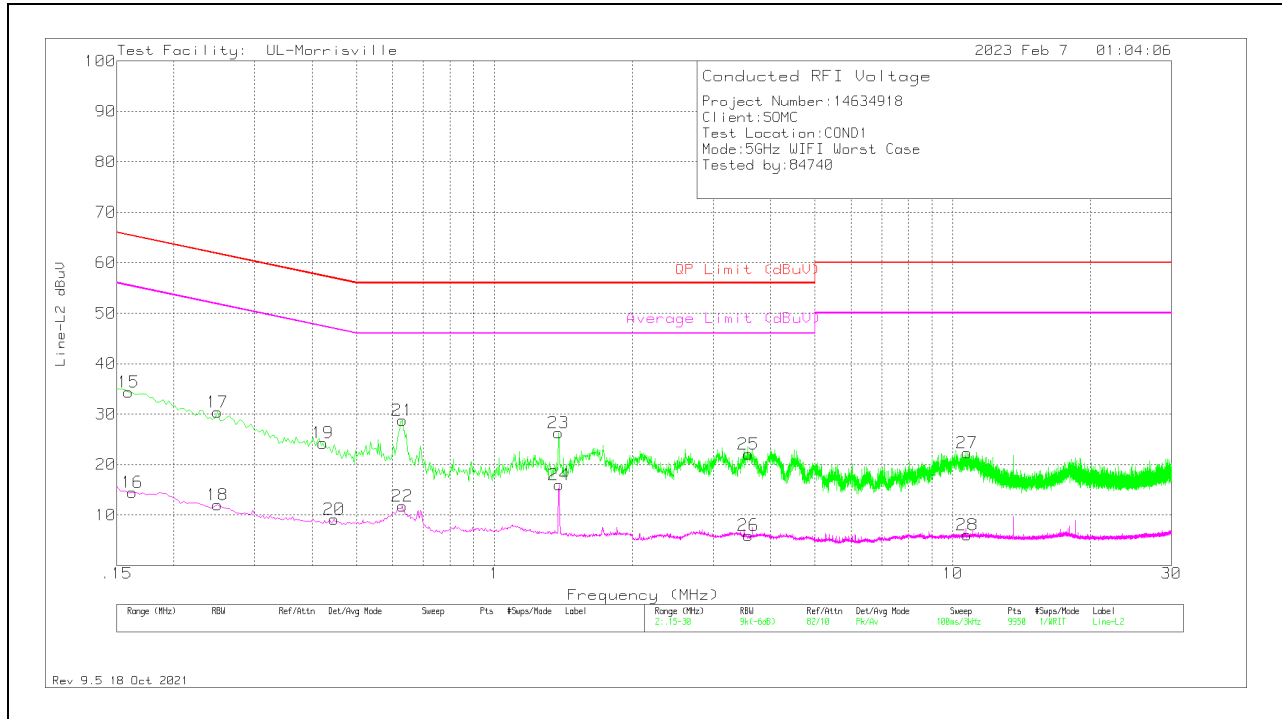
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.156	22.51	Pk	.2	9.8	32.51	65.67	-33.16	-	-
2	.156	5.62	Av	.2	9.8	15.62	-	-	55.67	-40.05
3	.249	18.65	Pk	.1	9.8	28.55	61.79	-33.24	-	-
4	.255	3.01	Av	.1	9.8	12.91	-	-	51.59	-38.68
5	.453	15.37	Pk	0	9.8	25.17	56.82	-31.65	-	-
6	.429	1.75	Av	0	9.8	11.55	-	-	47.27	-35.72
7	.621	19.08	Pk	0	9.8	28.88	56	-27.12	-	-
8	.624	4.63	Av	0	9.8	14.43	-	-	46	-31.57
9	1.383	17.26	Pk	0	9.8	27.06	56	-28.94	-	-
10	1.38	8.25	Av	0	9.8	18.05	-	-	46	-27.95
11	3.672	14.59	Pk	0	9.9	24.49	56	-31.51	-	-
12	3.672	-3.49	Av	0	9.9	6.41	-	-	46	-39.59
13	11.139	14.51	Pk	.1	10	24.61	60	-35.39	-	-
14	11.151	-3.83	Av	.1	10	6.27	-	-	50	-43.73

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
15	.159	24.41	Pk	.2	9.8	34.41	65.52	-31.11	-	-
16	.162	4.51	Av	.2	9.8	14.51	-	-	55.36	-40.85
17	.249	20.47	Pk	.1	9.8	30.37	61.79	-31.42	-	-
18	.249	2.16	Av	.1	9.8	12.06	-	-	51.79	-39.73
19	.423	14.44	Pk	0	9.8	24.24	57.39	-33.15	-	-
20	.447	-6.5	Av	0	9.8	9.15	-	-	46.93	-37.78
21	.63	18.95	Pk	0	9.8	28.75	56	-27.25	-	-
22	.63	1.91	Av	0	9.8	11.71	-	-	46	-34.29
23	1.38	16.52	Pk	0	9.8	26.32	56	-29.68	-	-
24	1.383	6.23	Av	0	9.8	16.03	-	-	46	-29.97
25	3.579	12.19	Pk	0	9.9	22.09	56	-33.91	-	-
26	3.585	-3.92	Av	0	9.9	5.98	-	-	46	-40.02
27	10.755	12.22	Pk	.1	10	22.32	60	-37.68	-	-
28	10.764	-4.06	Av	.1	10	6.04	-	-	50	-43.96

Pk - Peak detector
 Av - Average detection

12. SETUP PHOTOS

Please refer to R14634918-EP5 for setup photos

END OF TEST REPORT