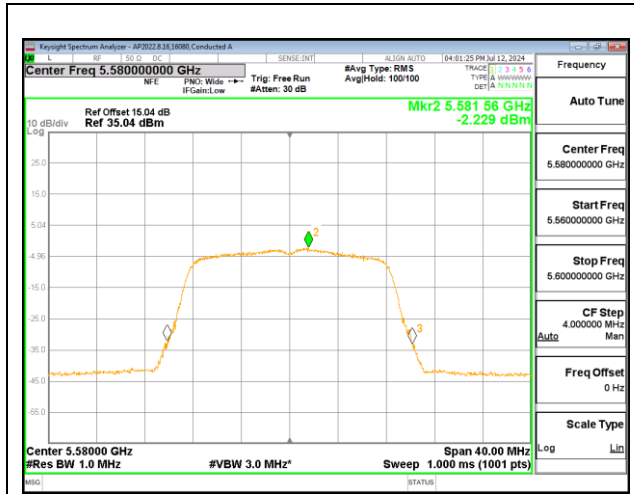
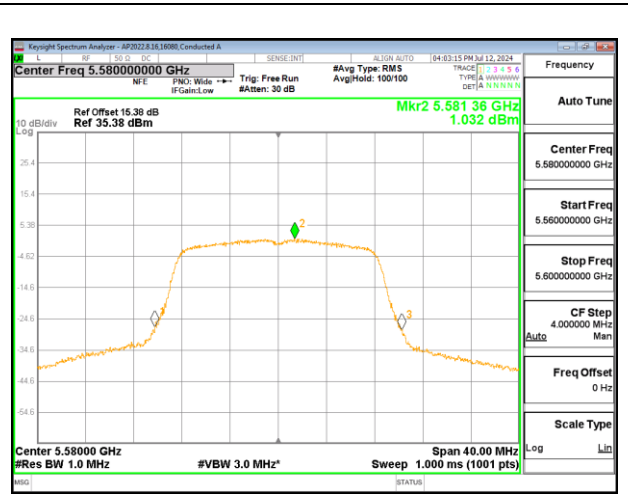


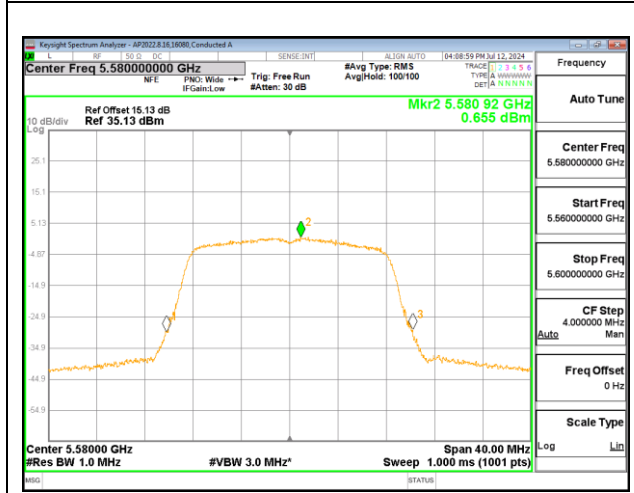
MID CHANNEL



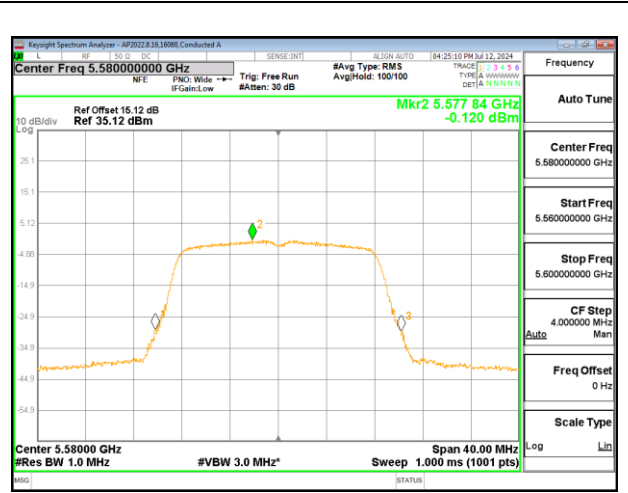
MID CHANNEL ANT 1



MID CHANNEL ANT 2

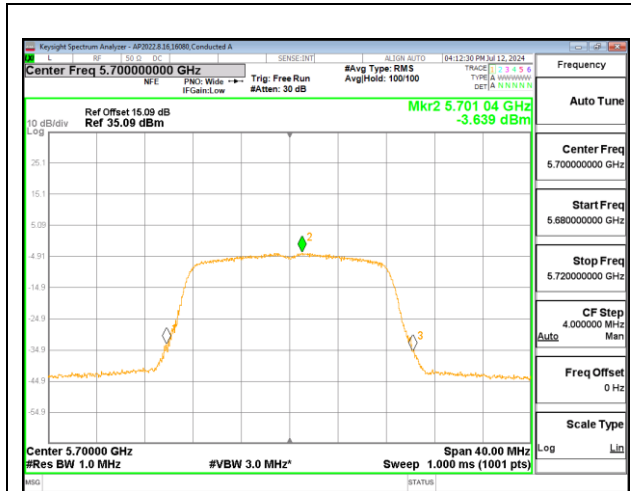


MID CHANNEL ANT 3

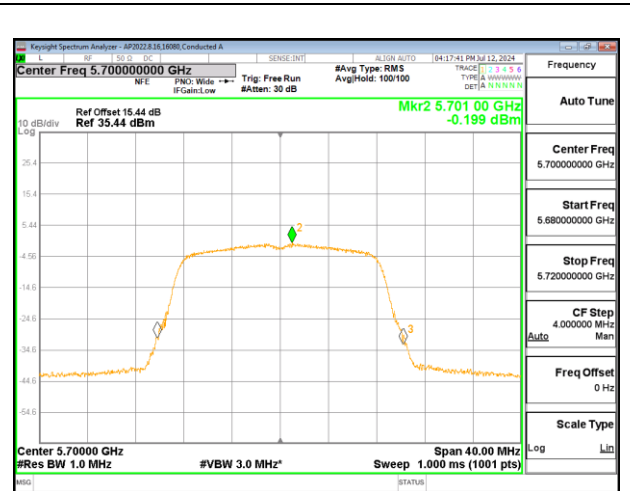


MID CHANNEL ANT 4

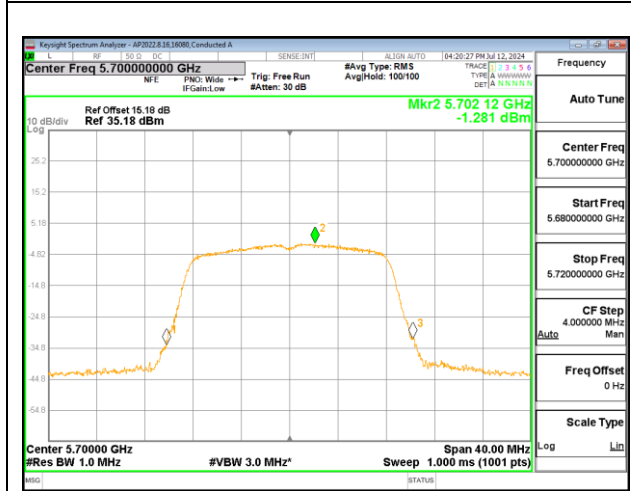
HIGH CHANNEL



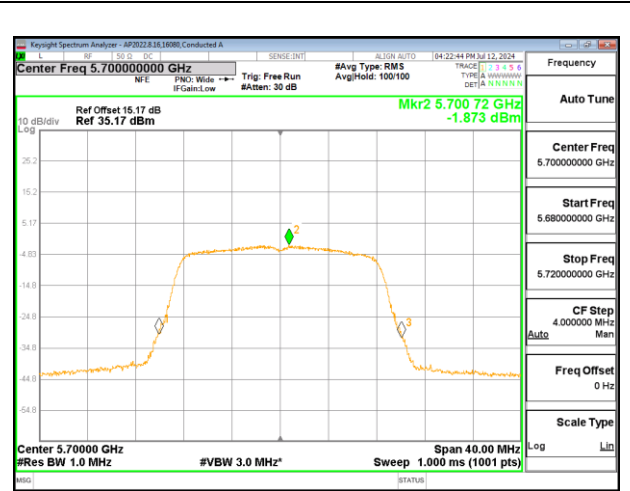
HIGH CHANNEL ANT 1



HIGH CHANNEL ANT 2



HIGH CHANNEL ANT 3



HIGH CHANNEL ANT 4

9.5.6. 802.11n HT20 MODE IN THE 5.6 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE (FCC+IC)

Test Engineer:	PV 27966
Test Date:	2024/07/11

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	20.20	17.541	1.10	5.60
Mid	5580	20.28	17.499	1.10	5.60
High	5700	20.20	17.573	1.10	5.60

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.44	29.44	23.44	11.00	11.00	11.00
Mid	5580	24.00	23.43	29.43	23.43	11.00	11.00	11.00
High	5700	24.00	23.45	29.45	23.45	11.00	11.00	11.00

Duty Cycle CF (dB)	1.03	Included in Calculations of Corr'd PSD
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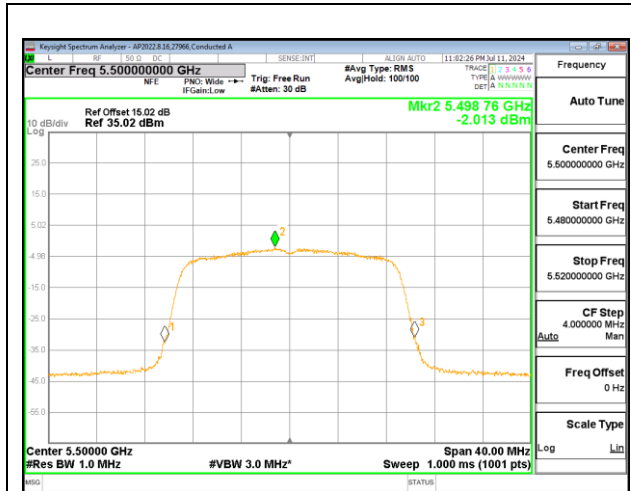
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	10.20	10.81	11.37	11.39	16.99	23.44	-6.45
Mid	5580	12.48	12.92	13.78	13.02	19.10	23.43	-4.33
High	5700	10.58	11.39	11.45	11.34	17.22	23.45	-6.22

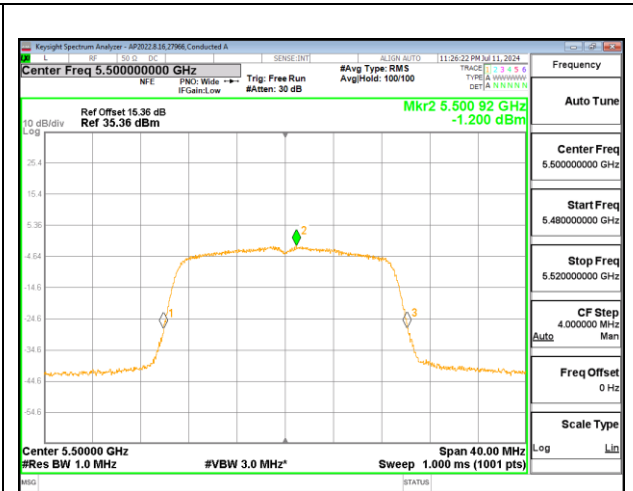
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Antenna 4 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	-2.013	-1.200	-2.072	-1.169	5.46	11.00	-5.54
Mid	5580	0.710	1.669	0.664	0.769	8.02	11.00	-2.98
High	5700	-2.277	-1.378	-2.135	-1.844	5.16	11.00	-5.84

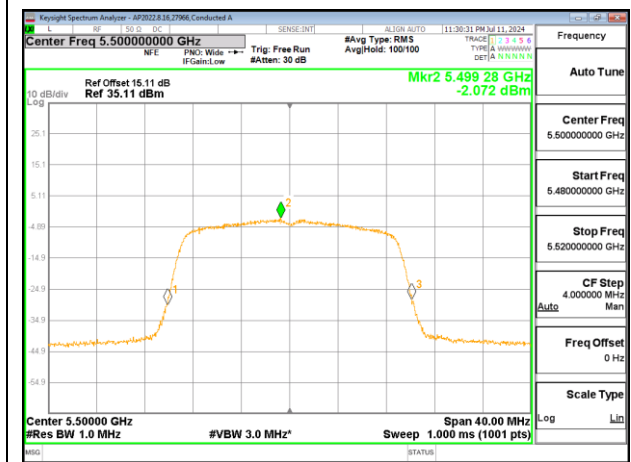
LOW CHANNEL



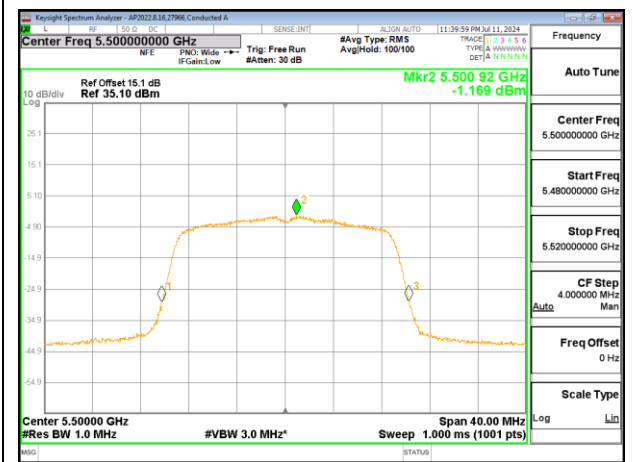
LOW CHANNEL ANT 1



LOW CHANNEL ANT 2

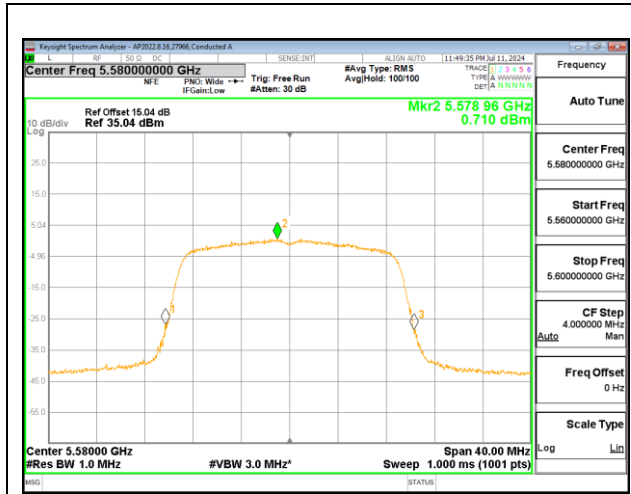


LOW CHANNEL ANT 3

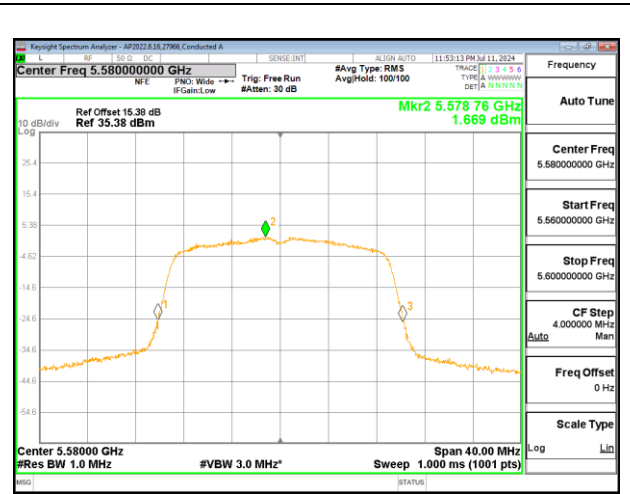


LOW CHANNEL ANT 4

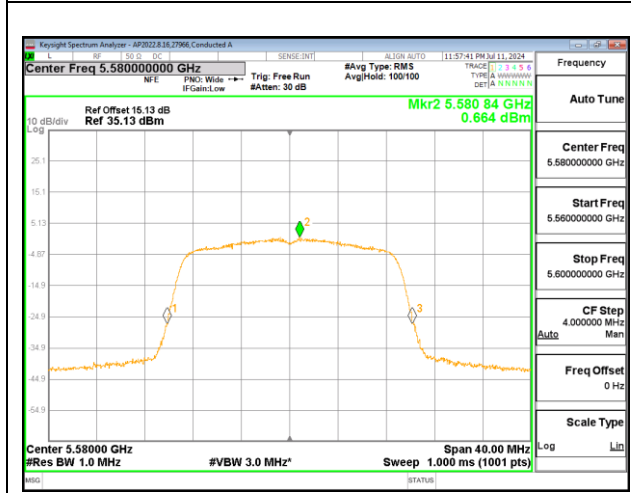
MID CHANNEL



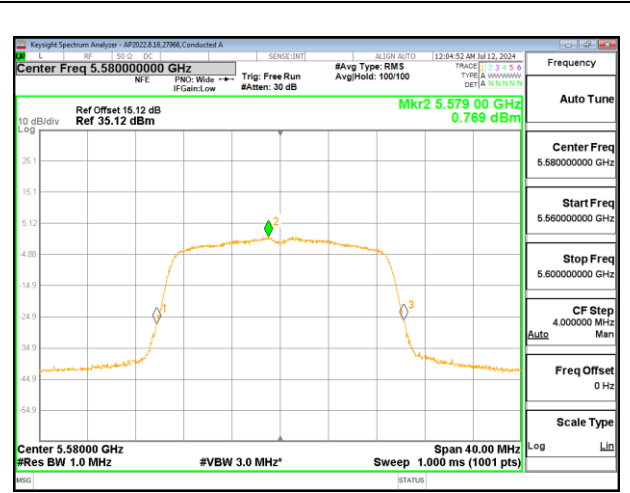
MID CHANNEL ANT 1



MID CHANNEL ANT 2

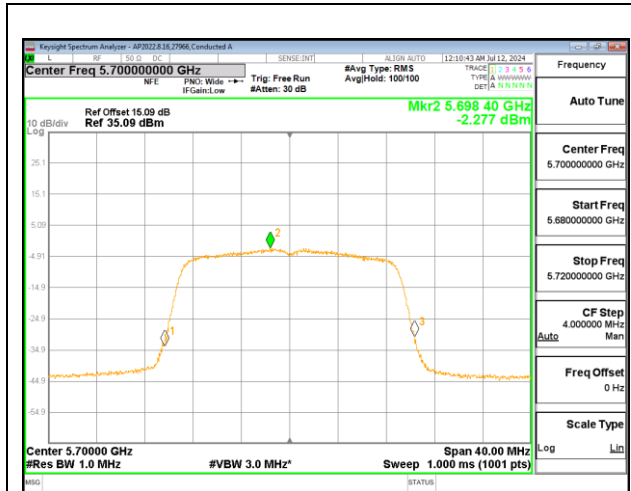


MID CHANNEL ANT 3

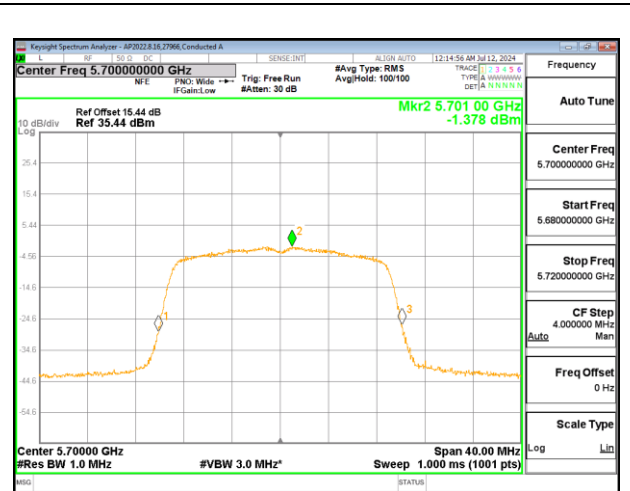


MID CHANNEL ANT 4

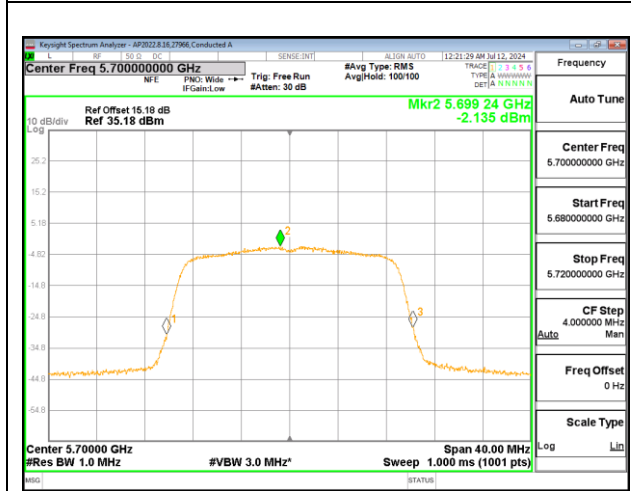
HIGH CHANNEL



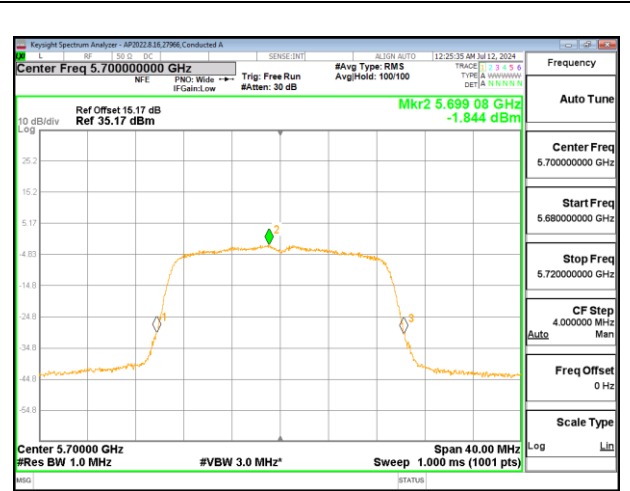
HIGH CHANNEL ANT 1



HIGH CHANNEL ANT 2



HIGH CHANNEL ANT 3



HIGH CHANNEL ANT 4

9.5.7. 802.11a MODE IN THE 5.8 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE (FCC+IC)

Test Engineer:	PV 27966
Test Date:	2024/07/12

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/500KHz)
Low	5745	-0.10	4.80	30.00	30.00
Mid	5785	-0.10	4.80	30.00	30.00
High	5825	-0.10	4.80	30.00	30.00

Duty Cycle CF (dB)	1.17	Included in Calculations of Corr'd PSD
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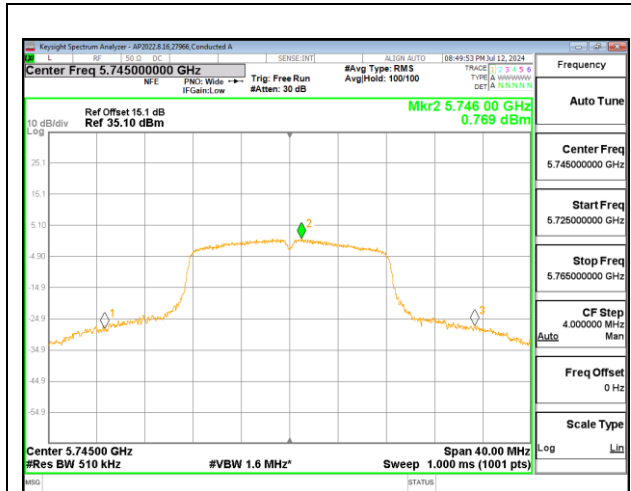
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	17.86	18.73	18.43	17.21	24.12	30.00	-5.88
Mid	5785	15.71	16.66	16.39	15.68	22.15	30.00	-7.85
High	5825	15.21	16.59	15.83	15.50	21.83	30.00	-8.17

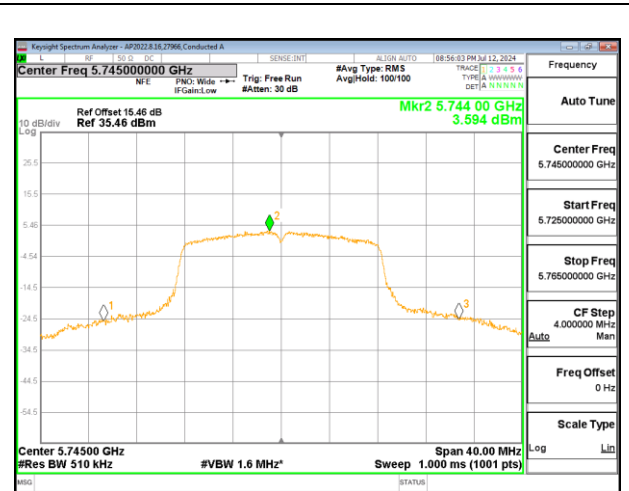
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/500kHz)	Antenna 2 Meas PSD (dBm/500kHz)	Antenna 3 Meas PSD (dBm/500kHz)	Antenna 4 Meas PSD (dBm/500kHz)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	PSD Margin (dB)
Low	5745	0.769	3.594	2.232	2.575	9.598	30.00	-20.40
Mid	5785	-1.457	1.618	0.228	-0.244	7.367	30.00	-22.63
High	5825	-0.703	2.185	1.212	0.266	8.063	30.00	-21.94

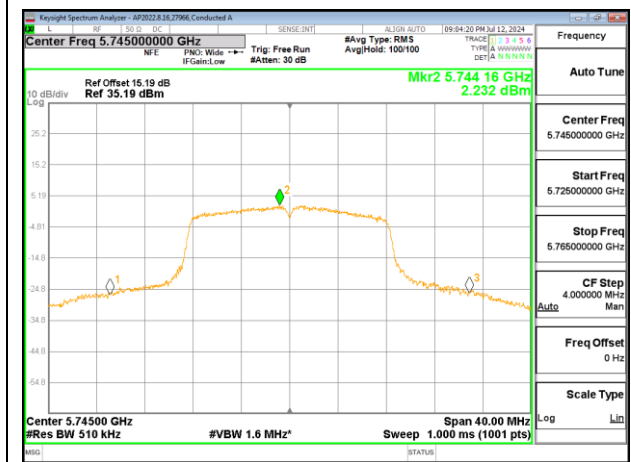
LOW CHANNEL



LOW CHANNEL ANT 1



LOW CHANNEL ANT 2

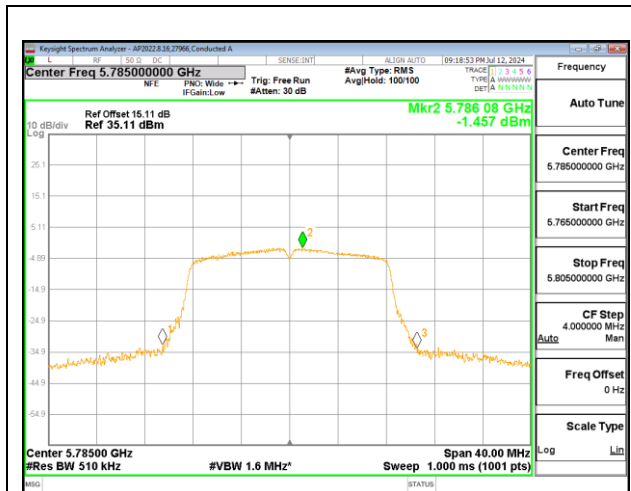


LOW CHANNEL ANT 3

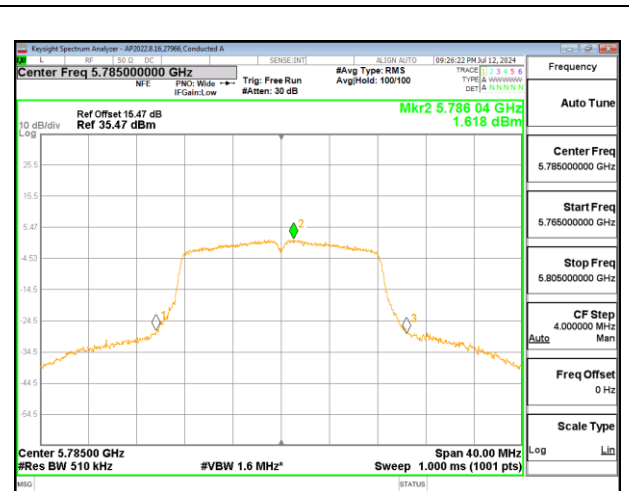


LOW CHANNEL ANT 4

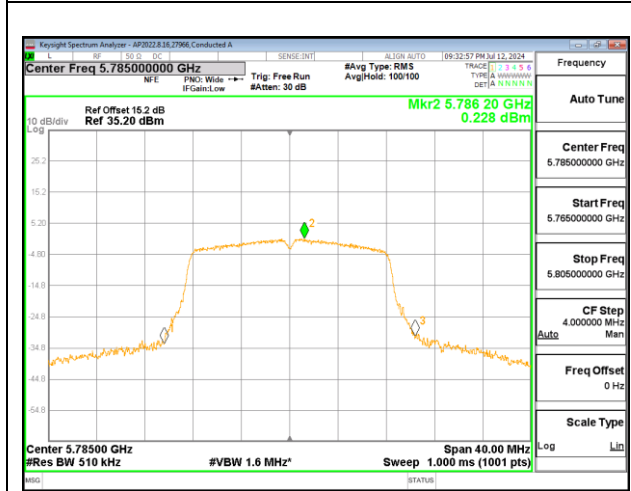
MID CHANNEL



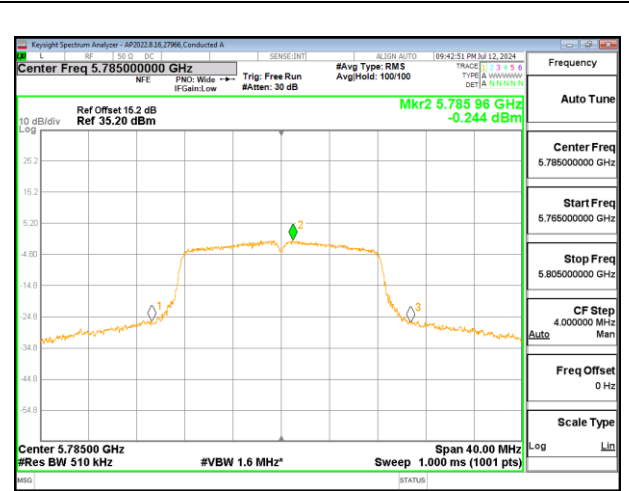
MID CHANNEL ANT 1



MID CHANNEL ANT 2

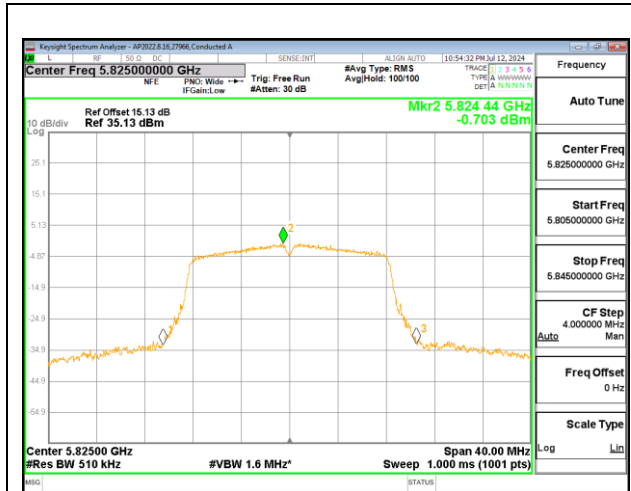


MID CHANNEL ANT 3

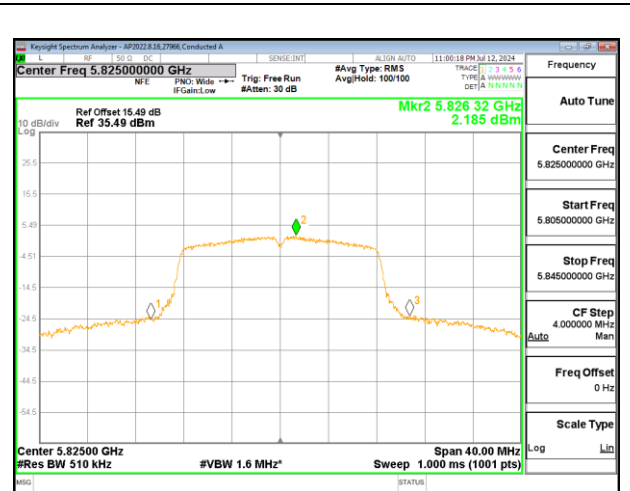


MID CHANNEL ANT 4

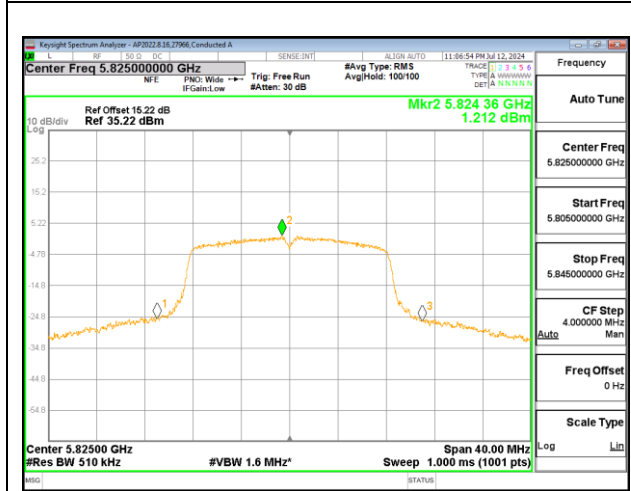
HIGH CHANNEL



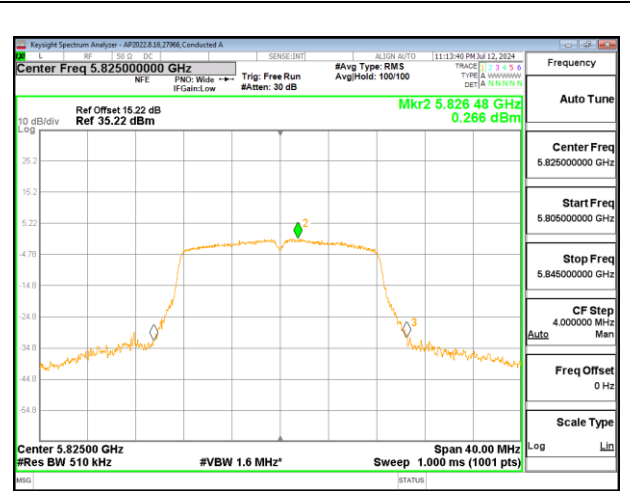
HIGH CHANNEL ANT 1



HIGH CHANNEL ANT 2



HIGH CHANNEL ANT 3



HIGH CHANNEL ANT 4

9.5.8. 802.11n HT20 MODE IN THE 5.8 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE (FCC+IC)

Test Engineer:	PV 27966
Test Date:	2024/07/11

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/500KHz)
Low	5745	-0.10	4.80	30.00	30.00
Mid	5785	-0.10	4.80	30.00	30.00
High	5825	-0.10	4.80	30.00	30.00

Duty Cycle CF (dB)	1.03	Included in Calculations of Corr'd PSD
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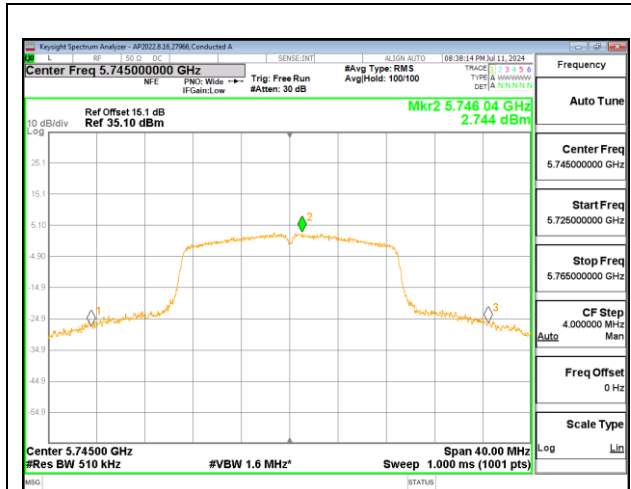
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.18	16.55	18.92	18.47	24.14	30.00	-5.86
Mid	5785	18.19	16.80	18.98	18.21	24.13	30.00	-5.87
High	5825	18.23	16.90	18.52	18.85	24.21	30.00	-5.79

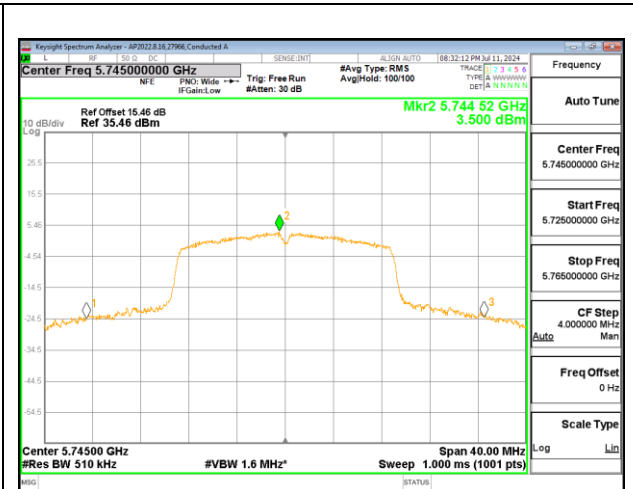
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/500kHz)	Antenna 2 Meas PSD (dBm/500kHz)	Antenna 3 Meas PSD (dBm/500kHz)	Antenna 4 Meas PSD (dBm/500kHz)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	PSD Margin (dB)
Low	5745	2.744	3.500	2.397	2.921	9.960	30.00	-20.04
Mid	5785	2.982	3.851	2.896	2.908	10.229	30.00	-19.77
High	5825	2.846	3.971	2.540	3.129	10.206	30.00	-19.79

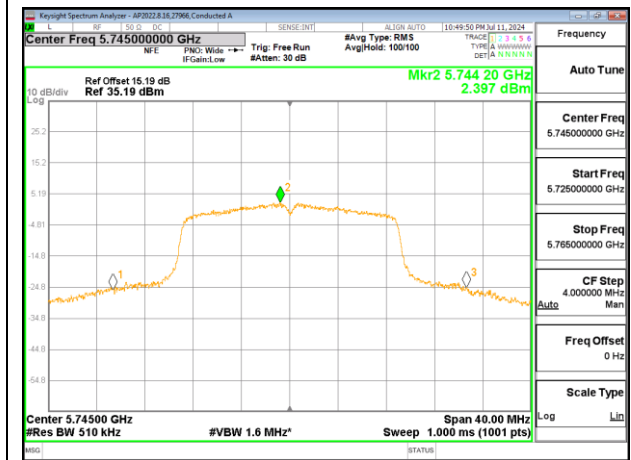
LOW CHANNEL



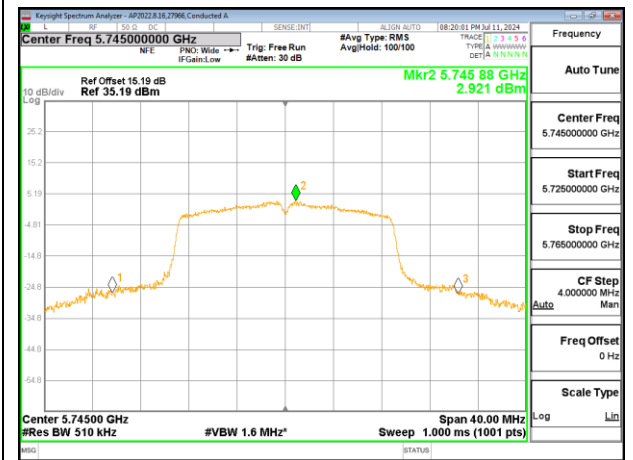
LOW CHANNEL ANT 1



LOW CHANNEL ANT 2

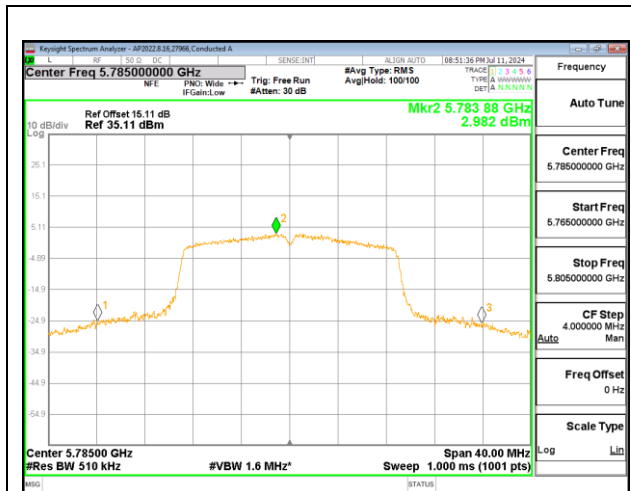


LOW CHANNEL ANT 3

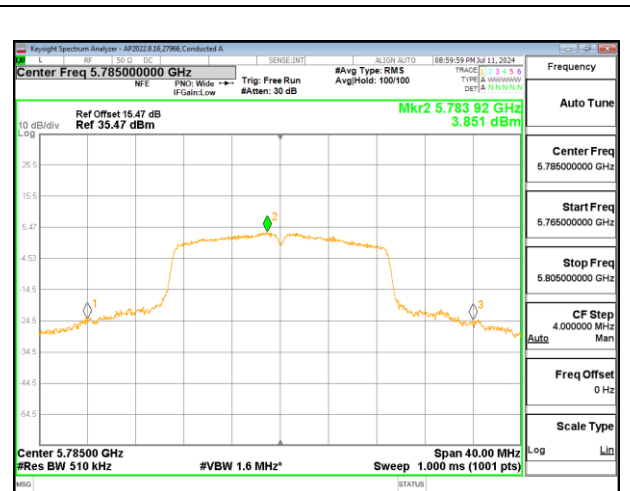


LOW CHANNEL ANT 4

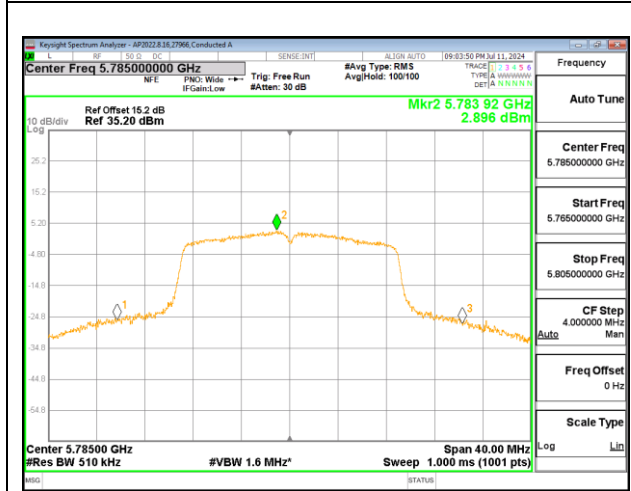
MID CHANNEL



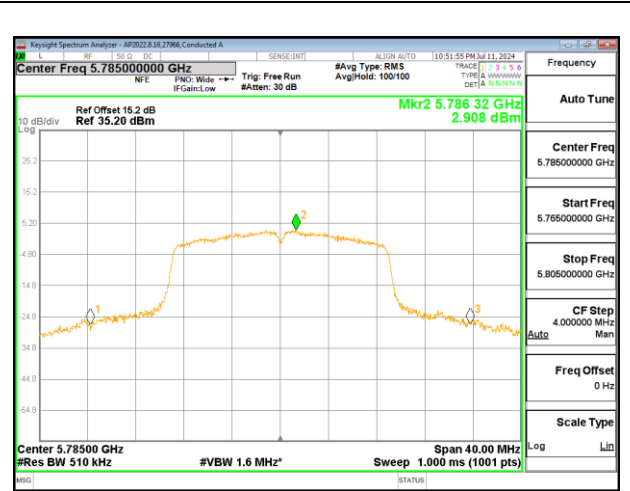
MID CHANNEL ANT 1



MID CHANNEL ANT 2

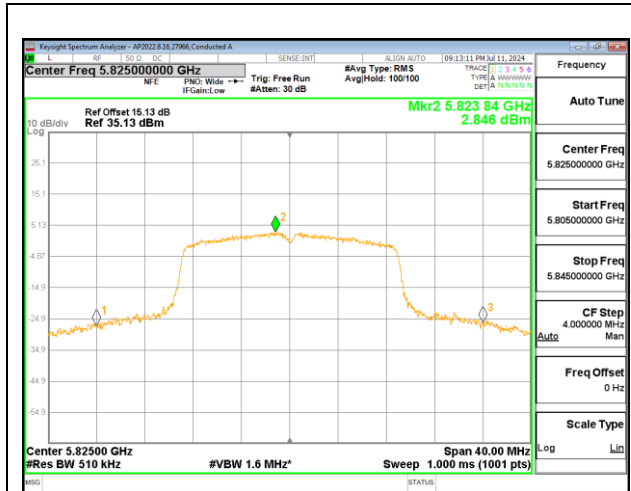


MID CHANNEL ANT 3

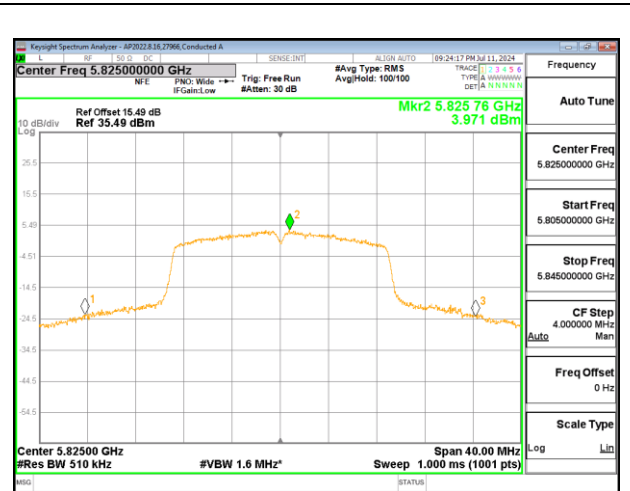


MID CHANNEL ANT 4

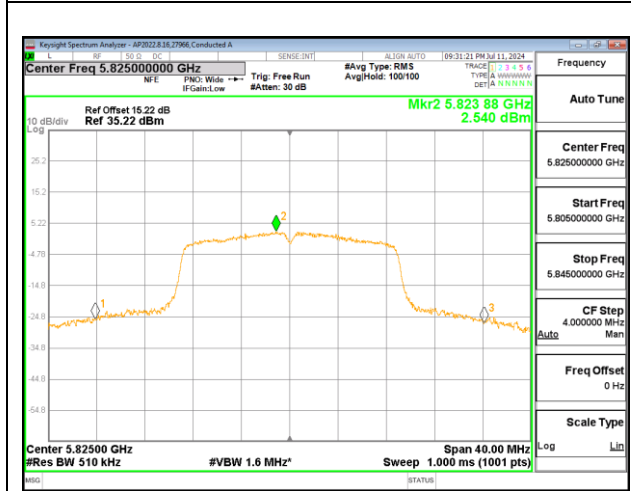
HIGH CHANNEL



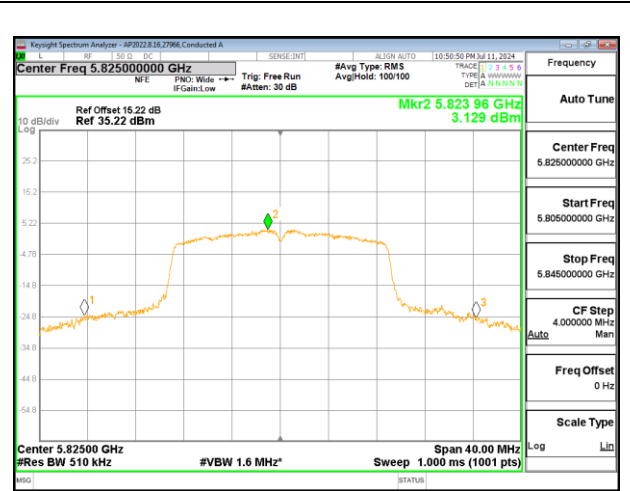
HIGH CHANNEL ANT 1



HIGH CHANNEL ANT 2



HIGH CHANNEL ANT 3



HIGH CHANNEL ANT 4

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-4) -Un-Restricted bands

RSS 247 Issue 3 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

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, and 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 30 KHz 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 the highest output power as the 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 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.

For below 30MHz testing, the investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Based 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.

NOTE: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6 since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

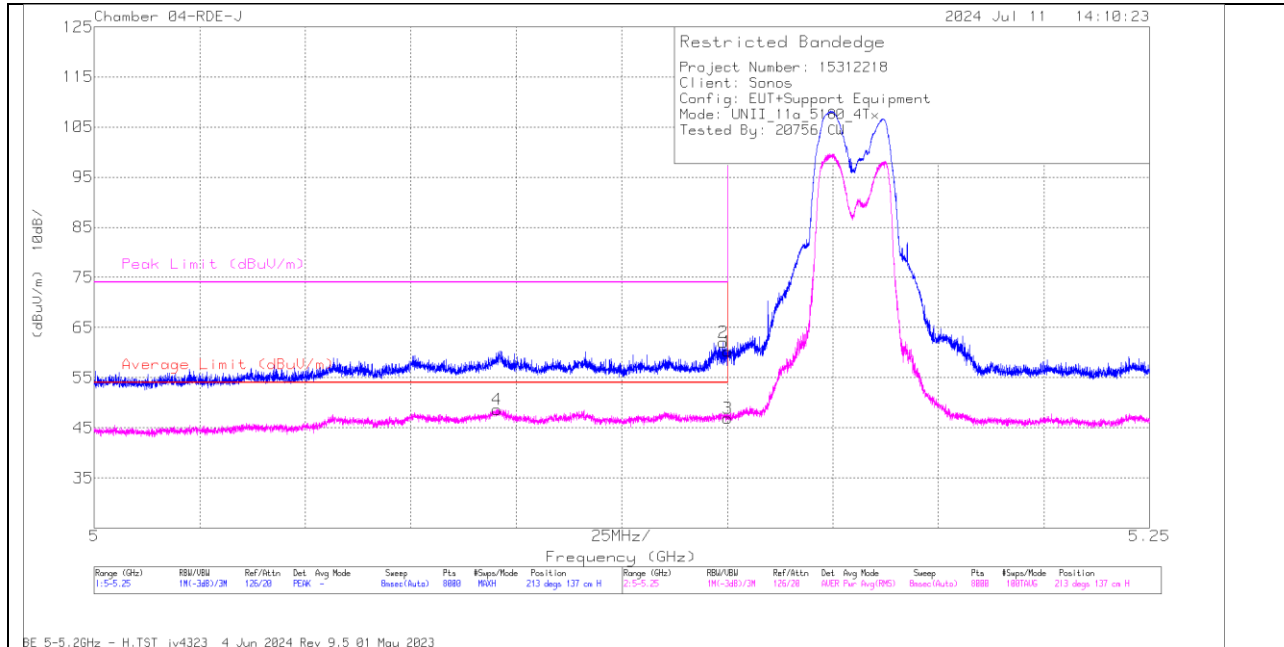
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (LOW CHANNEL)

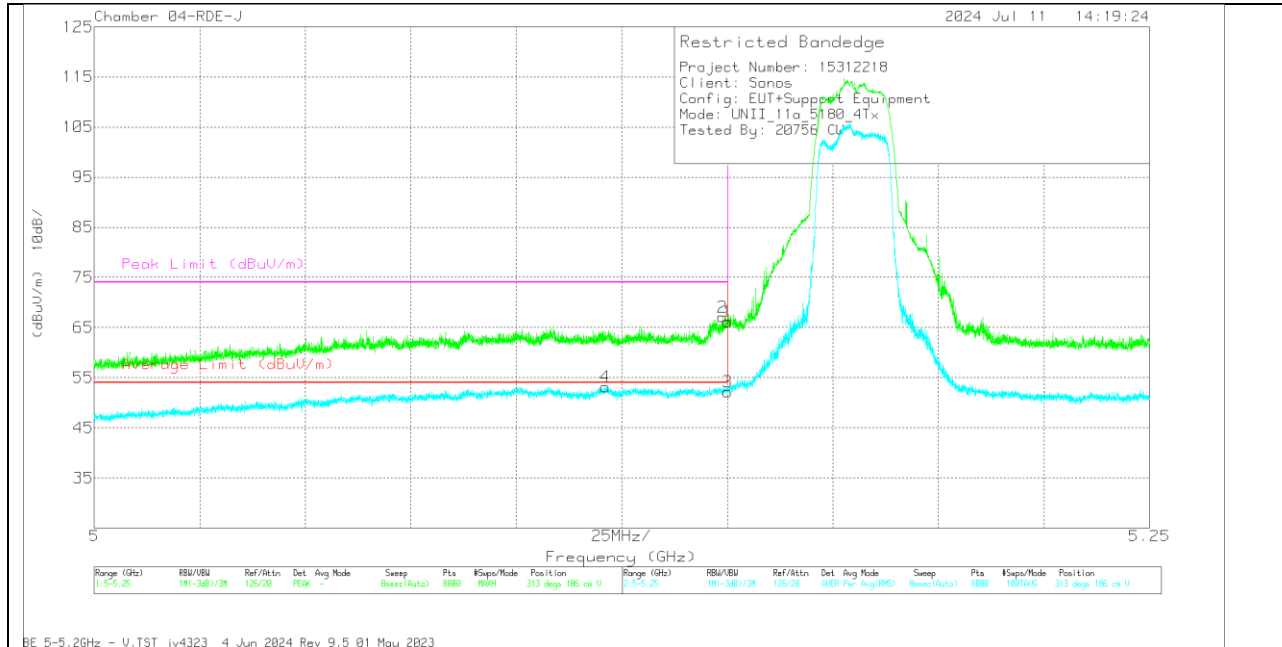
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Pad (dB)	DCCF (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	60.72	Pk	34.6	-35.1	0	60.22	-	-	74	-13.78	213	137	H
2	* 5.149019	62.59	Pk	34.6	-35.1	0	62.09	-	-	74	-11.91	213	137	H
3	* 5.15	46.23	RMS	34.6	-35.1	1.17	46.9	54	-7.1	-	-	213	137	H
4	* 5.095418	48.41	RMS	34.4	-35.3	1.17	48.68	54	-5.32	-	-	213	137	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

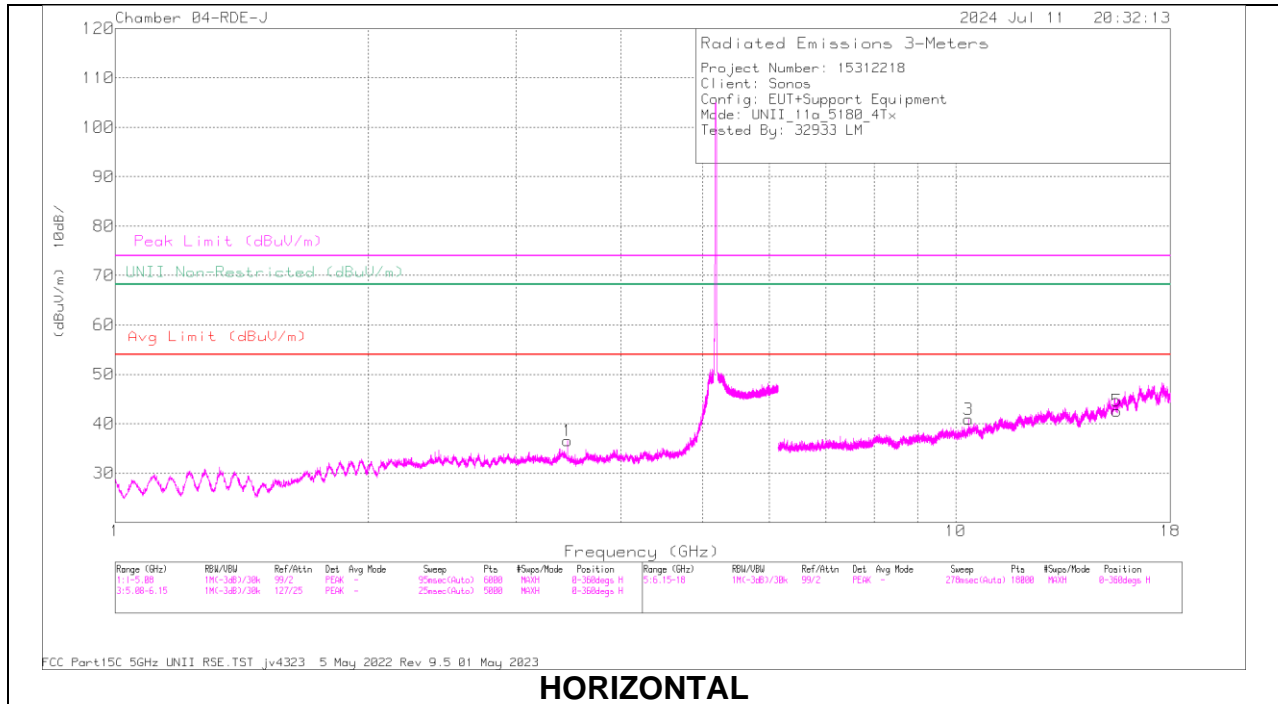


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	66.7	Pk	34.6	-35.1	0	66.2	-	-	74	-7.8	313	186	V
2	* 5.148832	67.61	Pk	34.6	-35.1	0	67.11	-	-	74	-6.89	313	186	V
3	* 5.15	51.49	RMS	34.6	-35.1	1.17	52.16	54	-1.84	-	-	313	186	V
4	* 5.121141	52.69	RMS	34.5	-35.2	1.17	53.16	54	-0.84	-	-	313	186	V

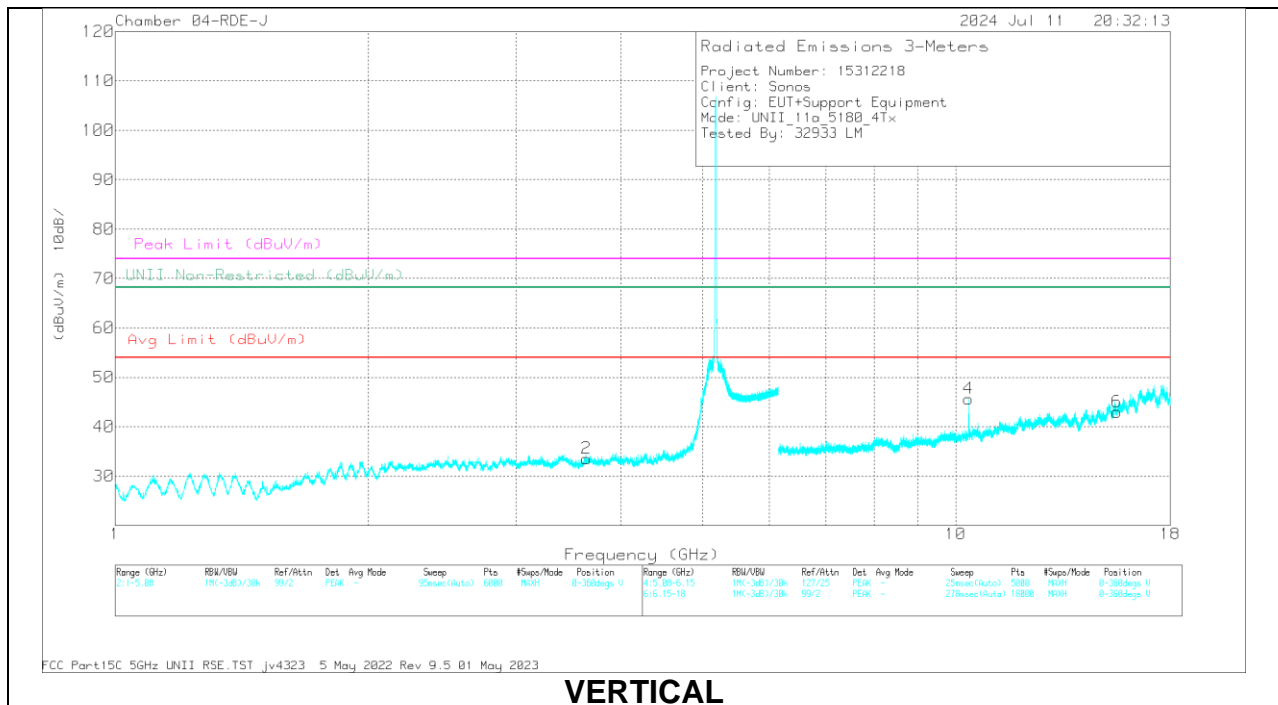
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



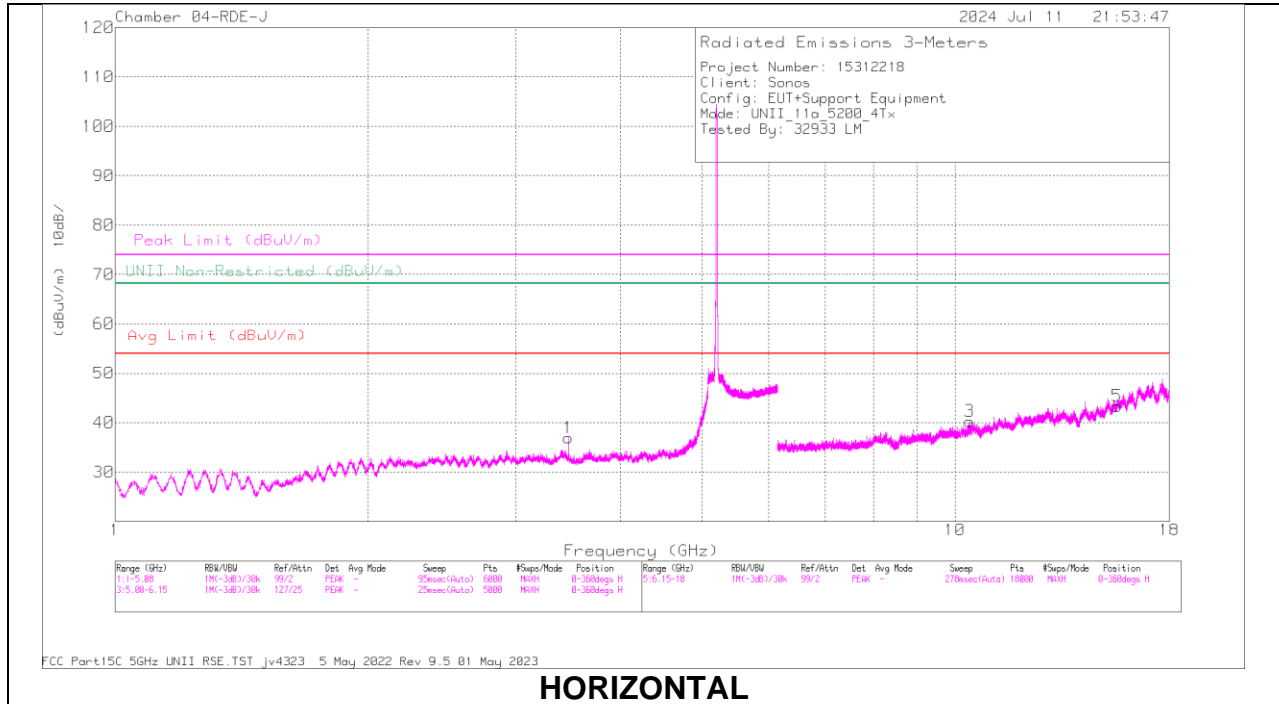
VERTICAL

RADIATED EMISSIONS

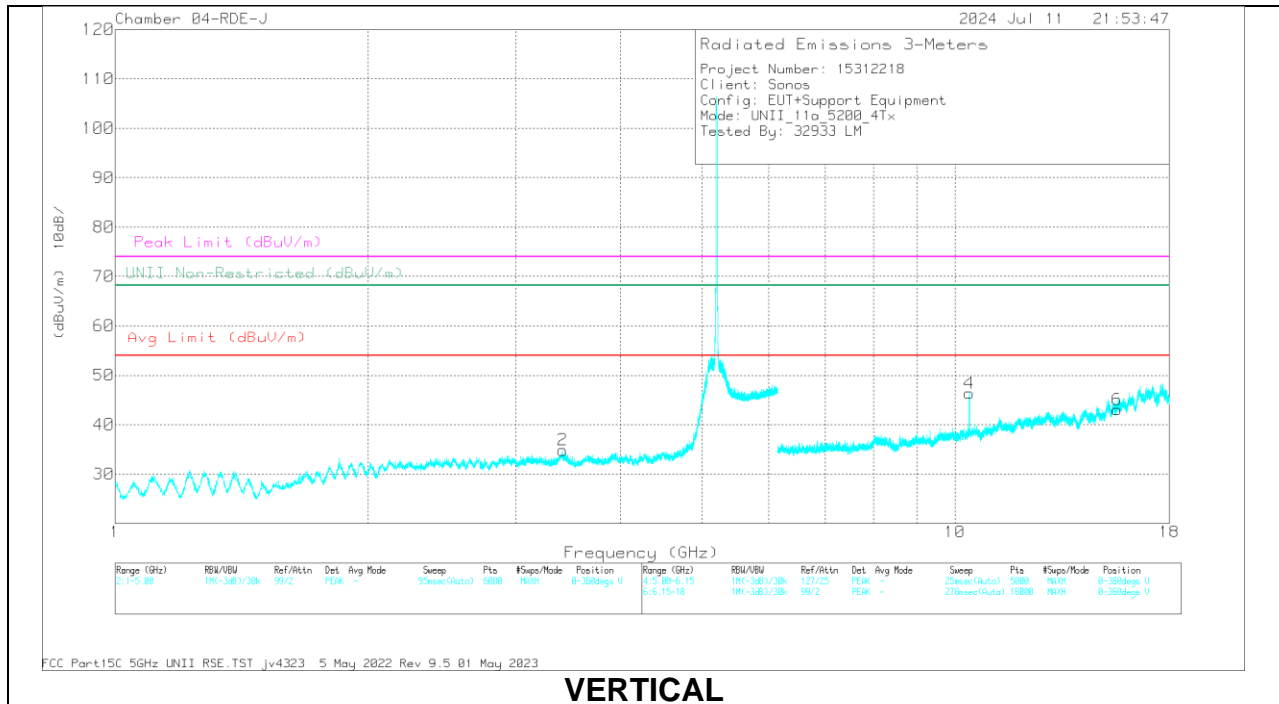
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.453164	56.99	PK-U	32.7	-44.1	0	45.59	-	-	-	-	68.2	-22.61	205	178	H
	3.453387	47.05	ADR	32.7	-44.1	1.17	36.82	-	-	-	-	-	-	205	178	H
2	* 3.639295	55.05	PK-U	33	-44.5	0	43.55	-	-	74	-30.45	-	-	216	127	V
	* 3.641112	43.4	ADR	33	-44.5	1.17	33.07	54	-20.93	-	-	-	-	216	127	V
3	10.361371	58.58	PK-U	37.4	-40.6	0	55.38	-	-	-	-	68.2	-12.82	288	397	H
	10.361754	46.15	ADR	37.4	-40.6	1.17	44.12	-	-	-	-	-	-	288	397	H
4	10.362453	48.04	ADR	37.4	-40.6	1.17	46.01	-	-	-	-	-	-	252	355	V
	10.363059	60.52	PK-U	37.4	-40.6	0	57.32	-	-	-	-	68.2	-10.88	252	355	V
5	* 15.542743	53.05	PK-U	40.6	-39.6	0	54.05	-	-	74	-19.95	-	-	5	369	H
	* 15.542799	40.95	ADR	40.6	-39.6	1.17	43.12	54	-10.88	-	-	-	-	5	369	H
6	* 15.541791	53.16	PK-U	40.6	-39.5	0	54.26	-	-	74	-19.74	-	-	193	273	V
	* 15.541932	41.29	ADR	40.6	-39.5	1.17	43.56	54	-10.44	-	-	-	-	193	273	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



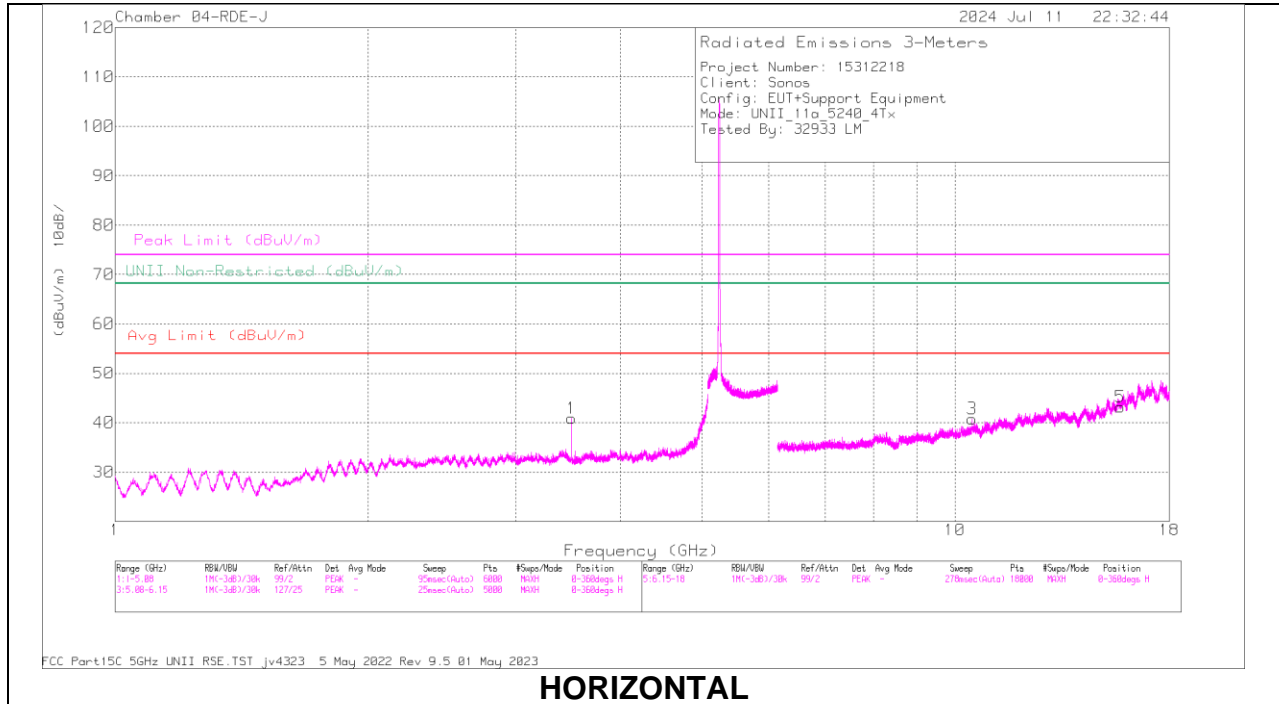
VERTICAL

RADIATED EMISSIONS

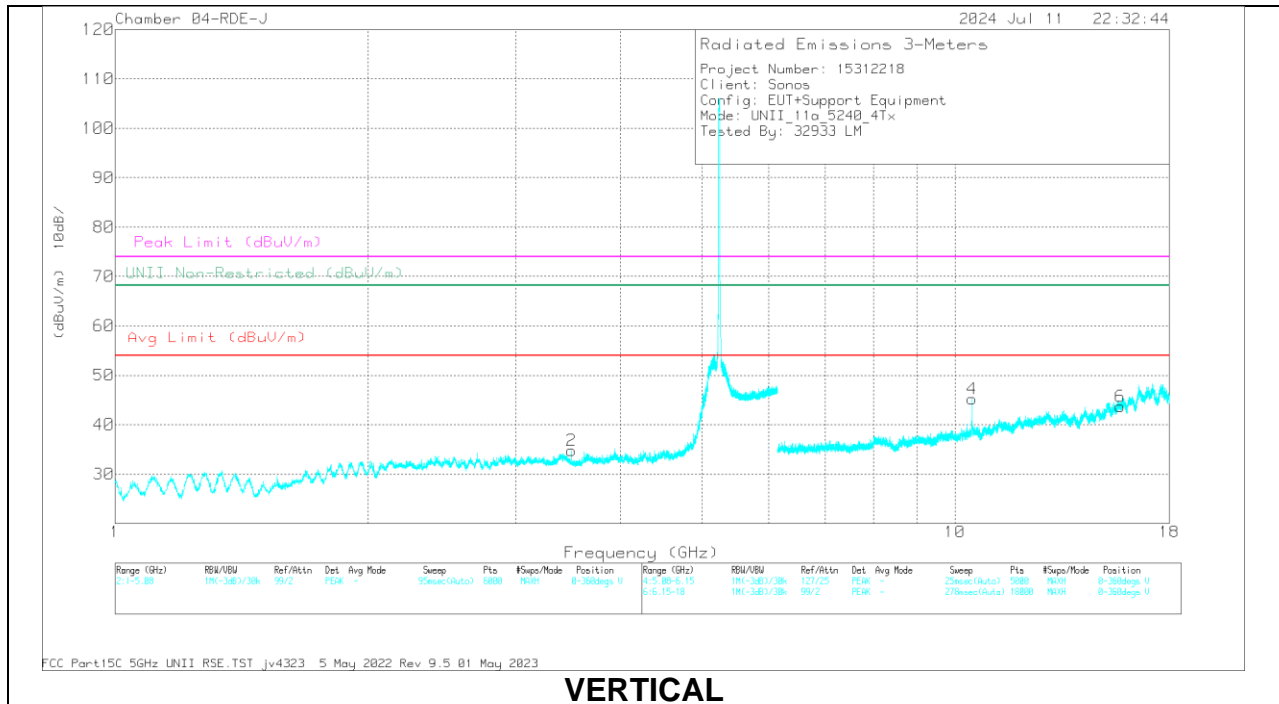
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	3.405075	55.85	PK-U	32.7	-44.3	0	44.25	-	-	-	-	68.2	-23.95	211	396	V
	3.406733	44.09	ADR	32.7	-44.3	1.17	33.66	-	-	-	-	-	-	211	396	V
1	3.46657	47.68	ADR	32.7	-44	1.17	37.55	-	-	-	-	-	-	224	154	H
	3.466959	57.44	PK-U	32.7	-44	0	46.14	-	-	-	-	68.2	-22.06	224	154	H
5	* 15.600728	52.82	PK-U	40.6	-39.7	0	53.72	-	-	74	-20.28	-	-	72	142	H
	* 15.600796	41.13	ADR	40.6	-39.7	1.17	43.2	54	-10.8	-	-	-	-	72	142	H
6	* 15.599894	52.67	PK-U	40.6	-39.7	0	53.57	-	-	74	-20.43	-	-	192	370	V
	* 15.600135	41.26	ADR	40.6	-39.7	1.17	43.33	54	-10.67	-	-	-	-	192	370	V
4	10.40071	62.99	PK-U	37.4	-41	0	59.39	-	-	-	-	68.2	-8.81	254	106	V
	10.401553	50.22	ADR	37.4	-41	1.17	47.79	-	-	-	-	-	-	254	106	V
3	10.403104	57.11	PK-U	37.4	-41	0	53.51	-	-	-	-	68.2	-14.69	285	247	H
	10.403232	44.66	ADR	37.4	-41	1.17	42.23	-	-	-	-	-	-	285	247	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (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
2	3.493209	55.53	PK-U	32.7	-44.2	0	44.03	-	-	-	-	68.2	-24.17	105	224	V
	3.493246	45.56	ADR	32.7	-44.2	1.17	35.23	-	-	-	-	-	-	105	224	V
1	3.493251	51.22	ADR	32.7	-44.2	1.17	40.89	-	-	-	-	-	-	211	174	H
	3.493371	58.5	PK-U	32.7	-44.2	0	47	-	-	-	-	68.2	-21.2	211	174	H
5	* 15.730666	54.16	PK-U	40.9	-40.5	0	54.56	-	-	74	-19.44	-	-	235	320	H
	* 15.730948	42.25	ADR	40.9	-40.5	1.17	43.82	54	-10.18	-	-	-	-	235	320	H
6	* 15.724232	53.81	PK-U	40.8	-40.4	0	54.21	-	-	74	-19.79	-	-	46	193	V
	* 15.725495	42.2	ADR	40.8	-40.4	1.17	43.77	54	-10.23	-	-	-	-	46	193	V
4	10.481397	48.72	ADR	37.4	-40.3	1.17	46.99	-	-	-	-	-	-	254	102	V
	10.481954	62.33	PK-U	37.4	-40.2	0	59.53	-	-	-	-	68.2	-8.67	254	102	V
3	10.483975	44.78	ADR	37.4	-40.2	1.17	43.15	-	-	-	-	-	-	289	396	H
	10.485796	57.41	PK-U	37.4	-40.2	0	54.61	-	-	-	-	68.2	-13.59	289	396	H

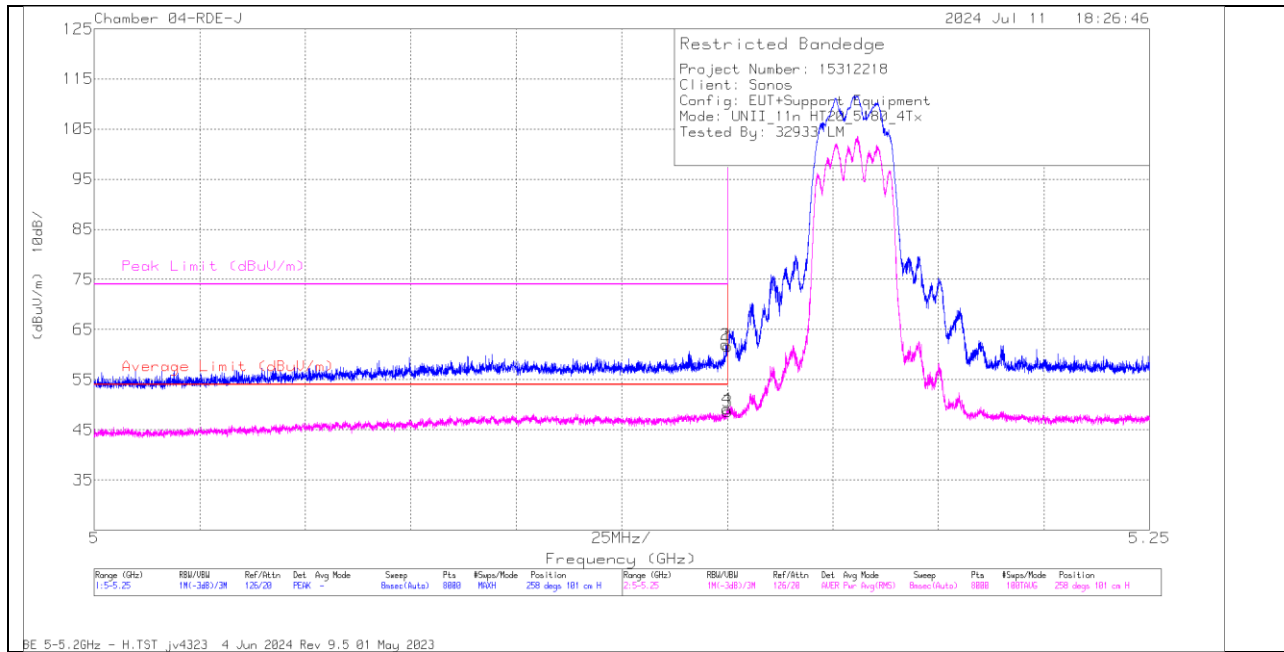
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (LOW CHANNEL)

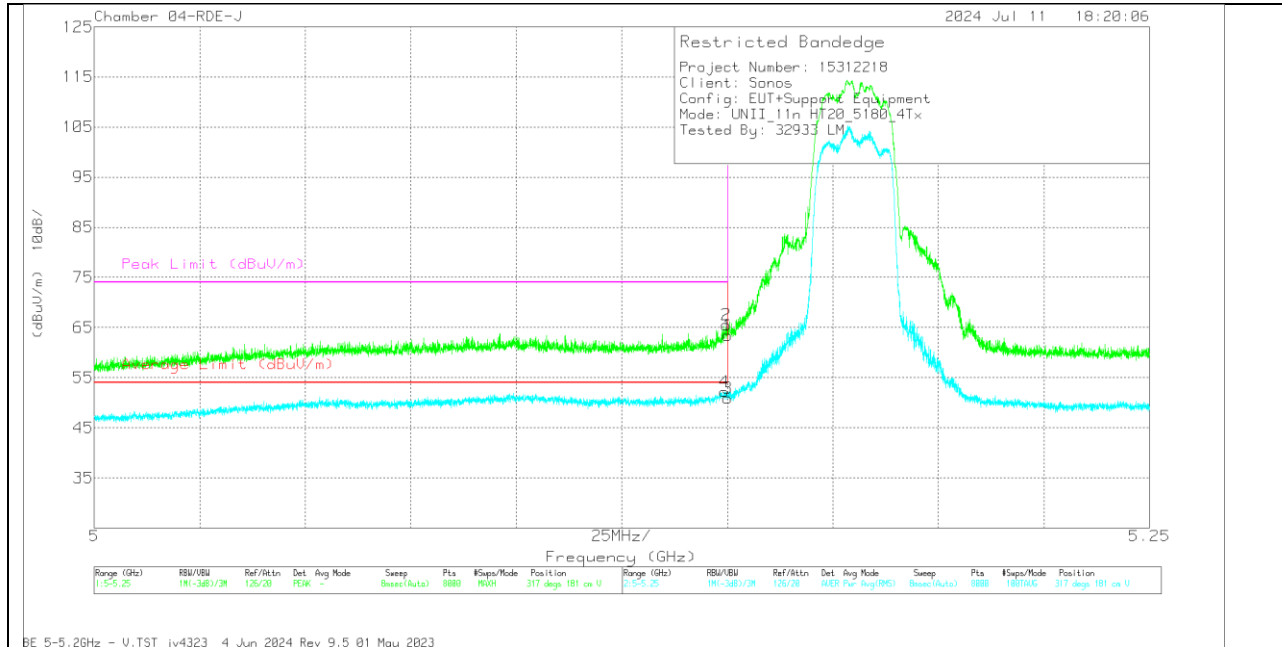
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Pad (dB)	DCCF (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	62.12	Pk	34.6	-35.1	0	61.62	-	-	74	-12.38	258	101	H
2	* 5.149613	62.49	Pk	34.6	-35.1	0	61.99	-	-	74	-12.01	258	101	H
3	* 5.15	48.12	RMS	34.6	-35.1	1.03	48.65	54	-5.35	-	-	258	101	H
4	* 5.149925	48.65	RMS	34.6	-35.1	1.03	49.18	54	-4.82	-	-	258	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

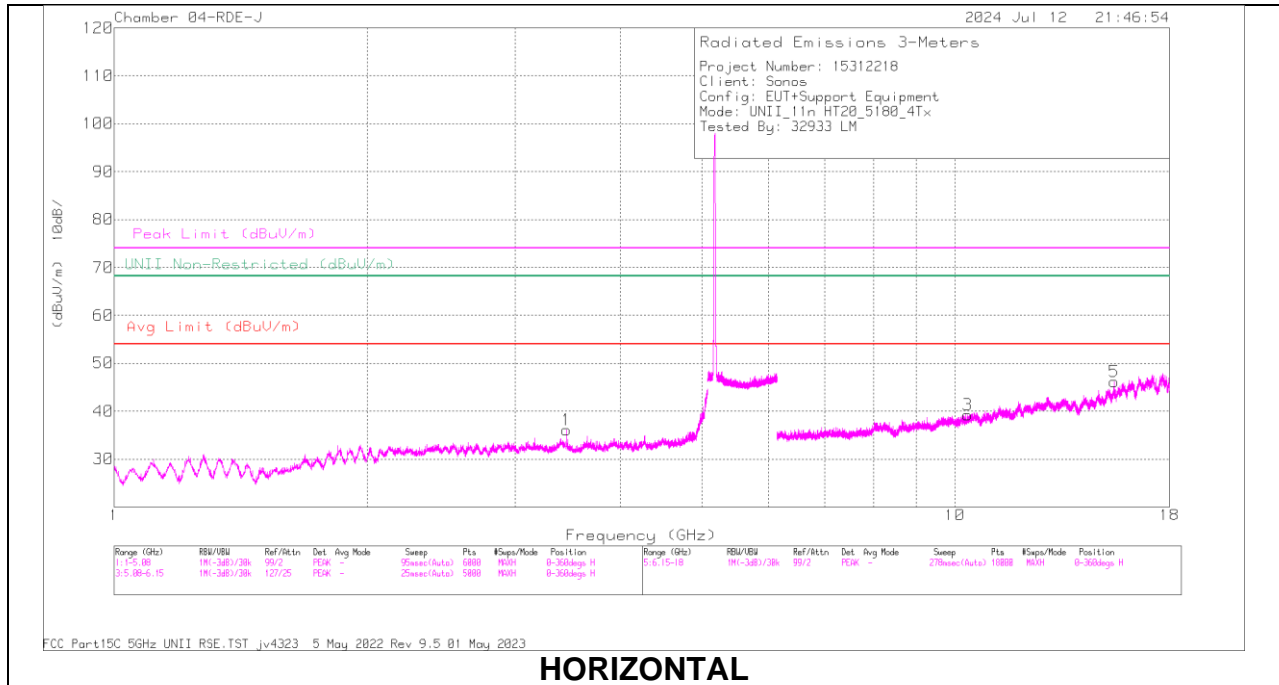


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	63.91	Pk	34.6	-35.1	0	63.41	-	-	74	-10.59	317	181	V
2	* 5.1498	66.02	Pk	34.6	-35.1	0	65.52	-	-	74	-8.48	317	181	V
3	* 5.15	50.42	RMS	34.6	-35.1	1.03	50.95	54	-3.05	-	-	317	181	V
4	* 5.1493	51.68	RMS	34.6	-35.1	1.03	52.21	54	-1.79	-	-	317	181	V

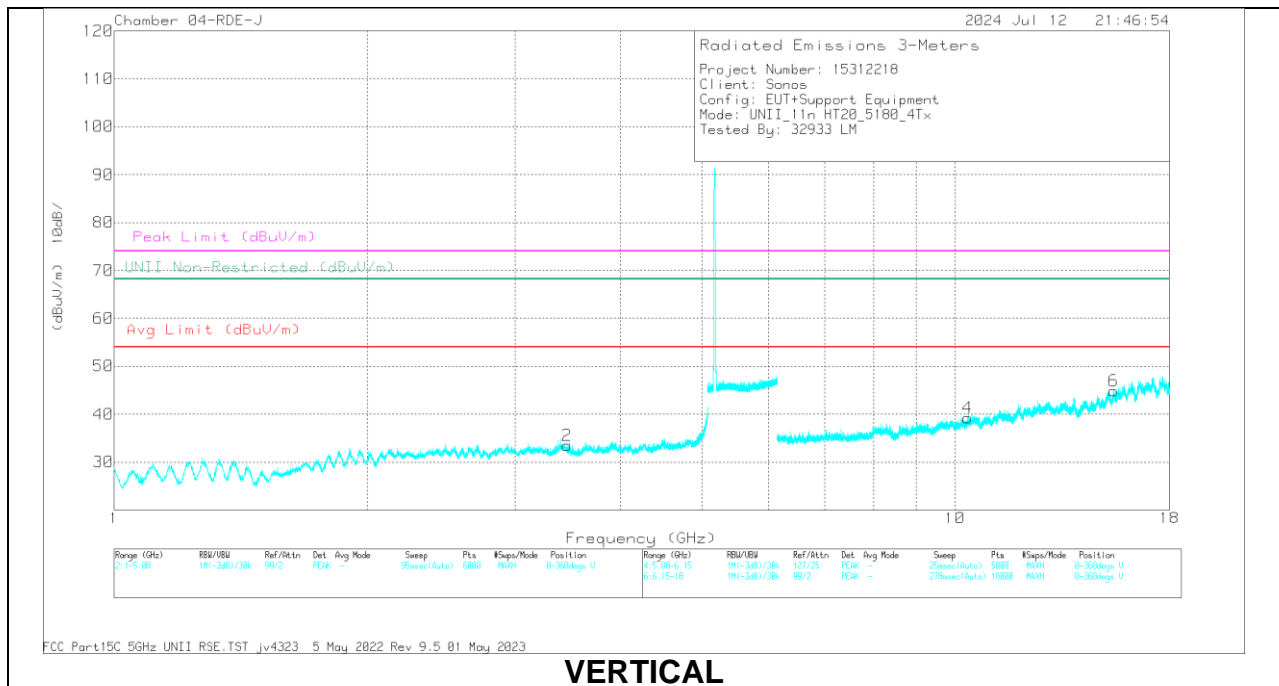
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



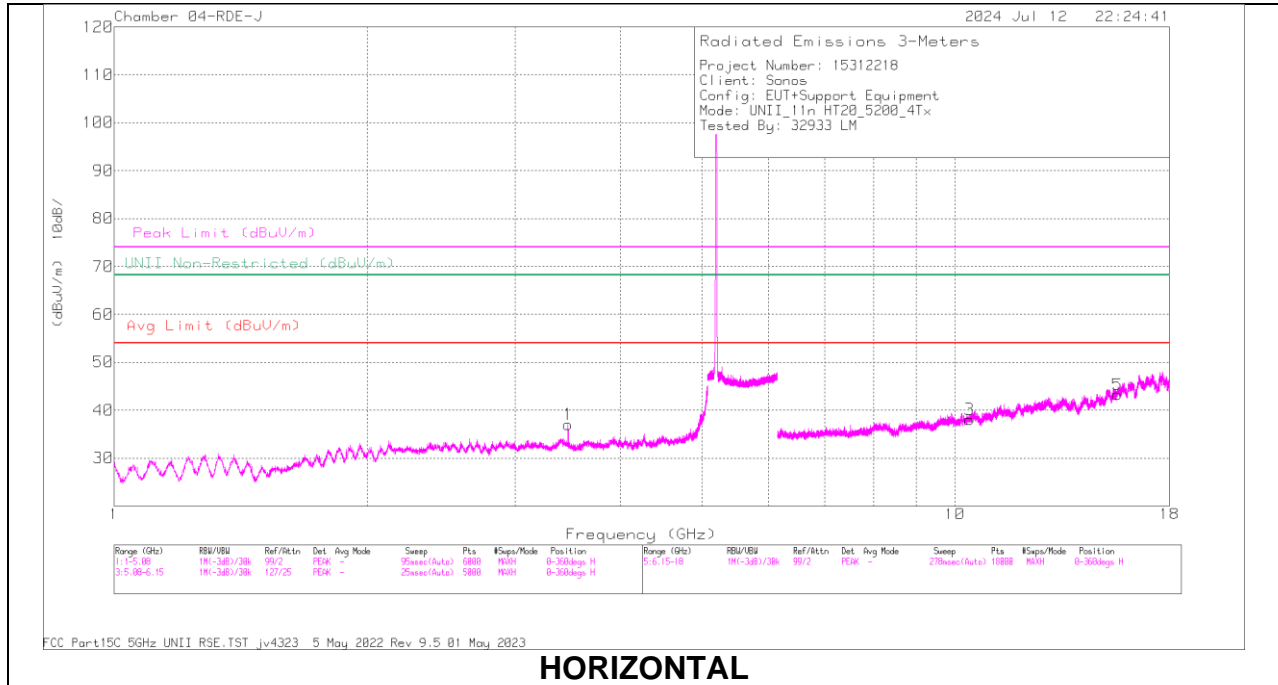
VERTICAL

RADIATED EMISSIONS

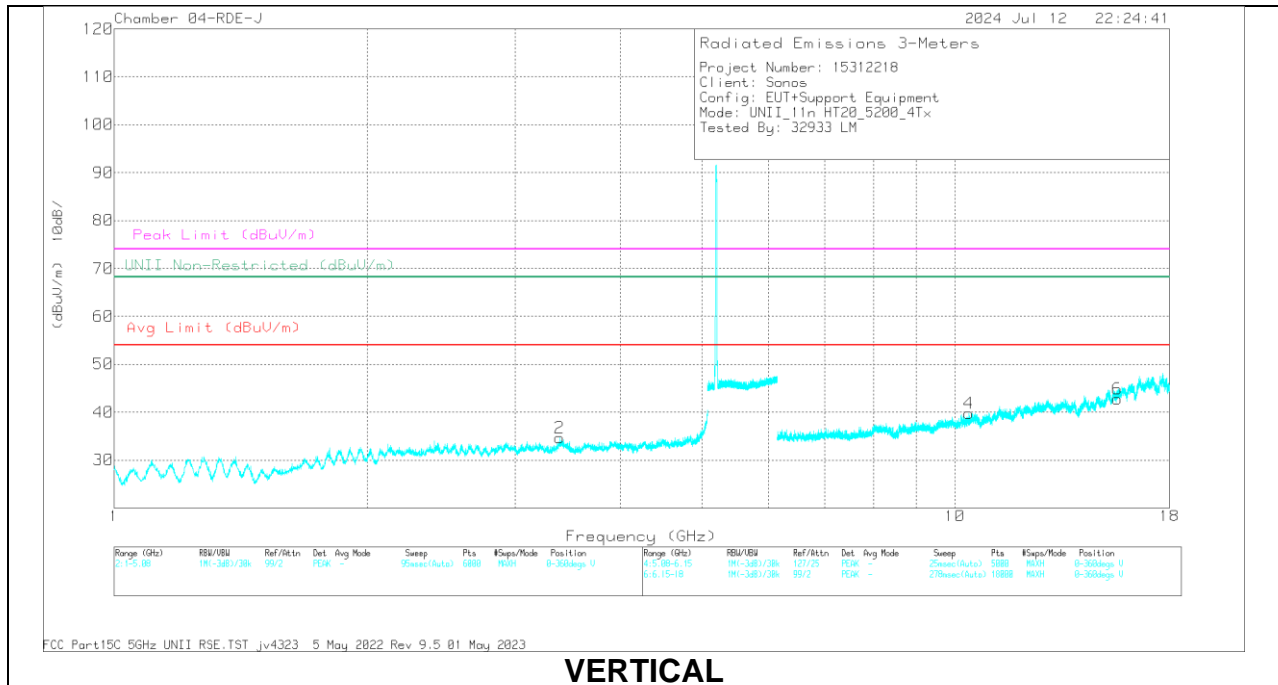
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.452945	56.91	PK-U	32.7	-44.1	0	45.51	-	-	-	-	68.2	-22.69	220	199	H
	3.453431	47.22	ADR	32.7	-44.1	1.03	36.85	-	-	-	-	-	-	220	199	H
2	3.45379	42.98	ADR	32.7	-44.1	1.03	32.61	-	-	-	-	-	-	210	118	V
	3.455899	55.28	PK-U	32.7	-44.1	0	43.88	-	-	-	-	68.2	-24.32	210	118	V
5	* 15.464144	53.89	PK-U	40.5	-38.6	0	55.79	-	-	74	-18.21	-	-	279	112	H
	* 15.462908	41.99	ADR	40.5	-38.5	1.03	45.02	54	-8.98	-	-	-	-	279	112	H
6	* 15.461089	54.11	PK-U	40.5	-38.5	0	56.11	-	-	74	-17.89	-	-	244	118	V
	* 15.459479	41.98	ADR	40.5	-38.5	1.03	45.01	54	-8.99	-	-	-	-	244	118	V
3	10.348562	53.25	PK-U	37.4	-40.9	0	49.75	-	-	-	-	68.2	-18.45	16	268	H
	10.351333	41.38	ADR	37.4	-40.8	1.03	39.01	-	-	-	-	-	-	16	268	H
4	10.361647	41.34	ADR	37.4	-40.6	1.03	39.17	-	-	-	-	-	-	247	128	V
	10.361807	52.93	PK-U	37.4	-40.6	0	49.73	-	-	-	-	68.2	-18.47	247	128	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



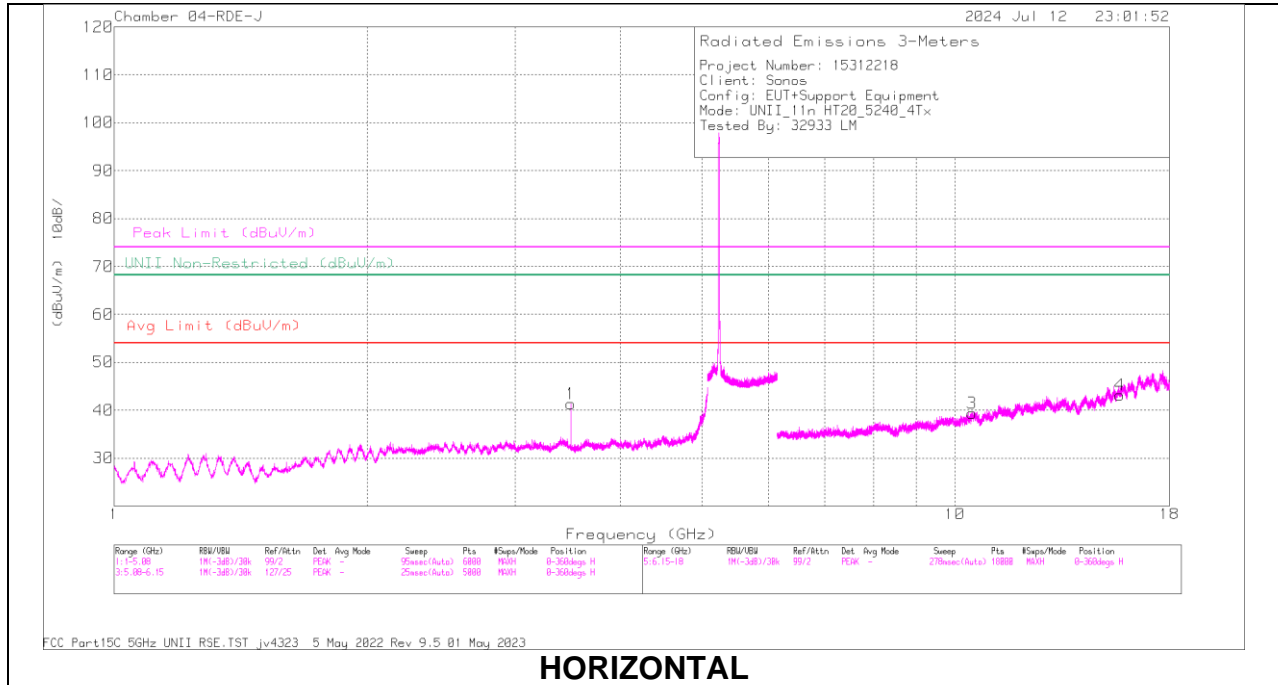
VERTICAL

RADIATED EMISSIONS

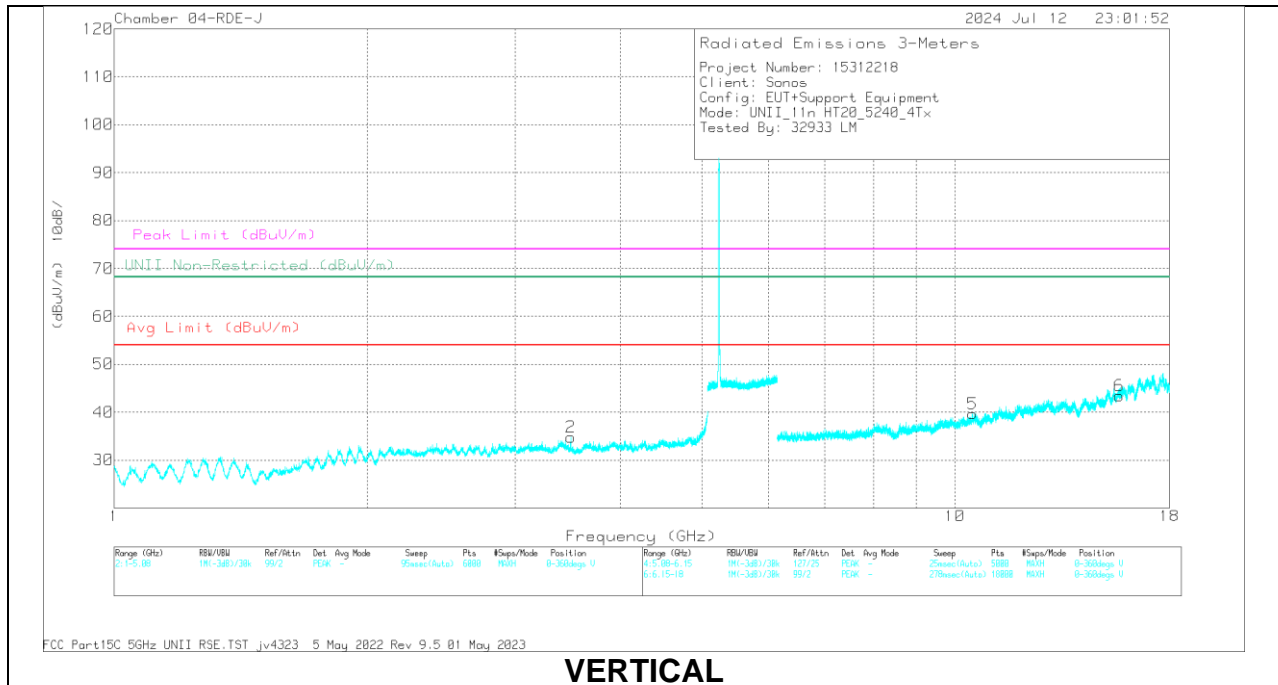
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	3.386462	57.23	PK-U	32.7	-44.7	0	45.23	-	-	-	-	68.2	-22.97	293	395	V
	3.38675	44.62	ADR	32.7	-44.7	1.03	33.65	-	-	-	-	-	-	293	395	V
1	3.466554	56.49	PK-U	32.7	-44	0	45.19	-	-	-	-	68.2	-23.01	230	191	H
	3.466682	47.23	ADR	32.7	-44	1.03	36.96	-	-	-	-	-	-	230	191	H
5	* 15.606694	53.25	PK-U	40.7	-39.8	0	54.15	-	-	74	-19.85	-	-	127	378	H
	* 15.607286	40.95	ADR	40.7	-39.8	1.03	42.88	54	-11.12	-	-	-	-	127	378	H
6	* 15.602758	52.38	PK-U	40.6	-39.8	0	53.18	-	-	74	-20.82	-	-	264	373	V
	* 15.604094	41.18	ADR	40.6	-39.8	1.03	43.01	54	-10.99	-	-	-	-	264	373	V
4	10.393418	41.94	ADR	37.4	-41	1.03	39.37	-	-	-	-	-	-	245	233	V
	10.395367	54.36	PK-U	37.4	-41	0	50.76	-	-	-	-	68.2	-17.44	245	233	V
3	10.404862	41.57	ADR	37.4	-41	1.03	39	-	-	-	-	-	-	221	294	H
	10.405911	53.44	PK-U	37.4	-41	0	49.84	-	-	-	-	68.2	-18.36	221	294	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (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	3.493261	58.29	PK-U	32.7	-44.2	0	46.79	-	-	-	-	68.2	-21.41	233	105	H
	3.493394	51.24	ADR	32.7	-44.2	1.03	40.77	-	-	-	-	-	-	233	105	H
2	3.493309	55.54	PK-U	32.7	-44.2	0	44.04	-	-	-	-	68.2	-24.16	4	132	V
	3.493427	45.7	ADR	32.7	-44.2	1.03	35.23	-	-	-	-	-	-	4	132	V
4	* 15.72688	53.94	PK-U	40.8	-40.5	0	54.24	-	-	74	-19.76	-	-	187	313	H
	* 15.725848	41.82	ADR	40.8	-40.4	1.03	43.25	54	-10.75	-	-	-	-	187	313	H
6	* 15.673856	53.5	PK-U	40.8	-40.1	0	54.2	-	-	74	-19.8	-	-	248	320	V
	* 15.675922	41.5	ADR	40.8	-40.1	1.03	43.23	54	-10.77	-	-	-	-	248	320	V
3	10.481661	41.43	ADR	37.4	-40.2	1.03	39.66	-	-	-	-	-	-	306	346	H
	10.482405	53.71	PK-U	37.4	-40.2	0	50.91	-	-	-	-	68.2	-17.29	306	346	H
5	10.491457	53.04	PK-U	37.4	-40.2	0	50.24	-	-	-	-	68.2	-17.96	187	156	V
	10.492684	40.92	ADR	37.4	-40.2	1.03	39.15	-	-	-	-	-	-	187	156	V

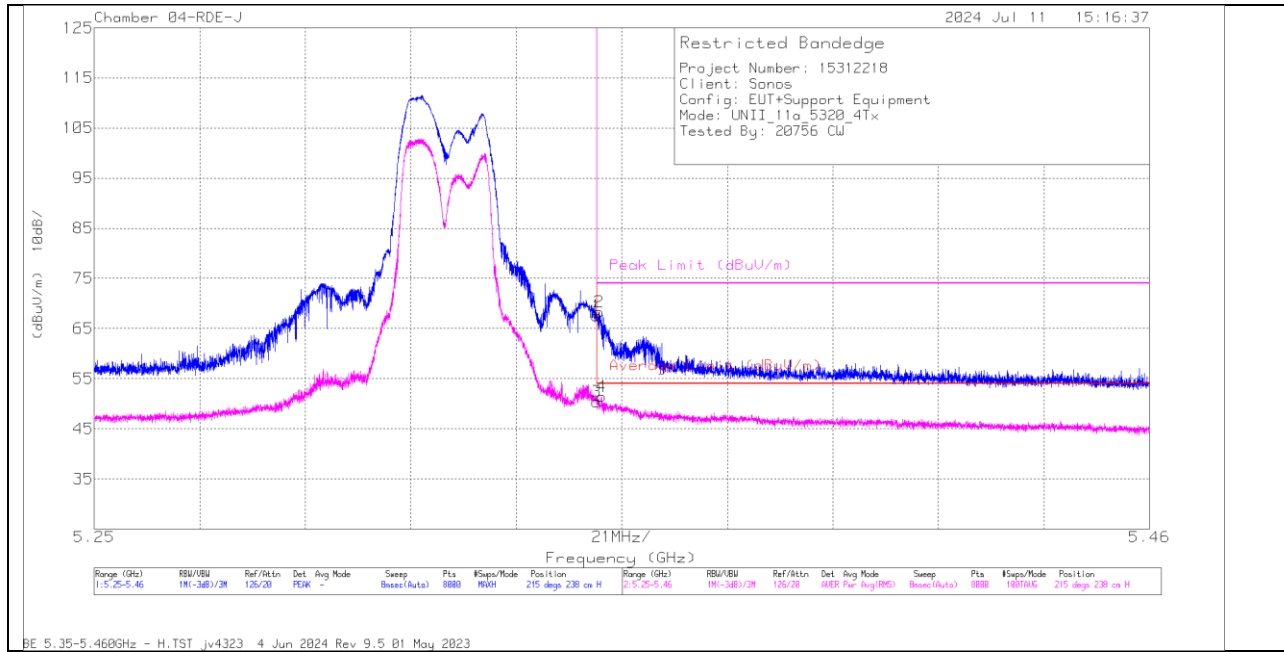
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.3. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (HIGH CHANNEL)

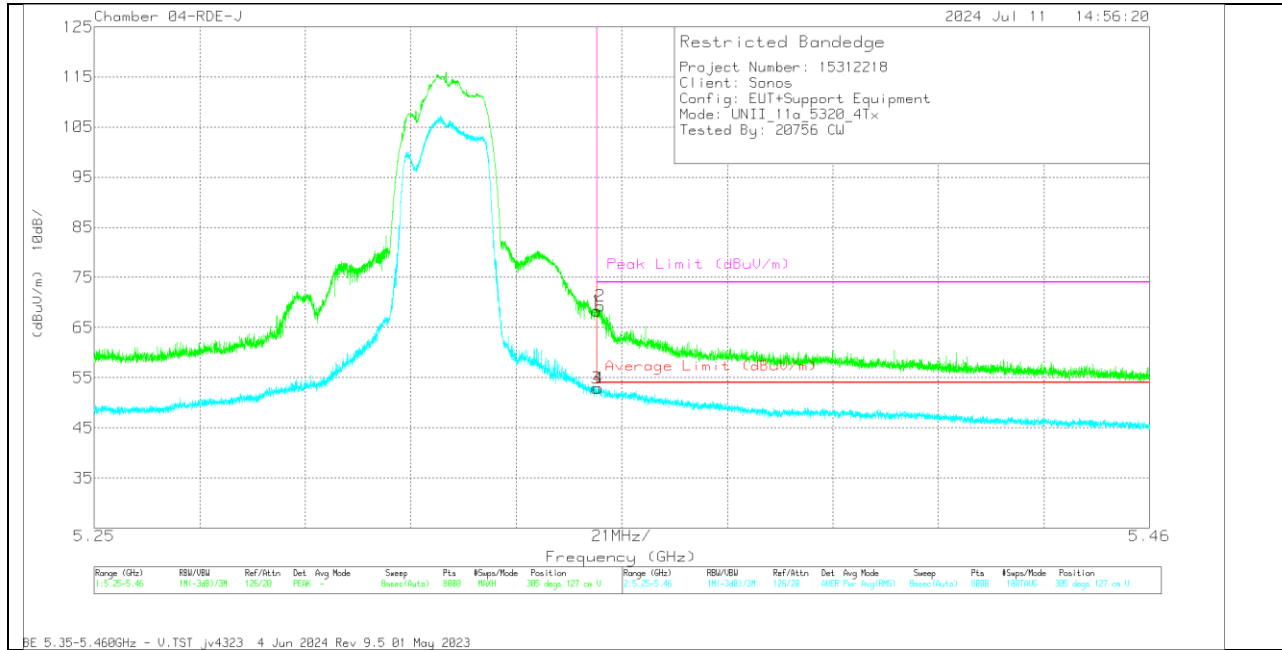
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	67.29	Pk	35	-34.7	0	67.59	-	-	74	-6.41	215	238	H
2	* 5.350496	67.97	Pk	35	-34.7	0	68.27	-	-	74	-5.73	215	238	H
3	* 5.35	48.92	RMS	35	-34.7	1.17	50.39	54	-3.61	-	-	215	238	H
4	* 5.350995	49.99	RMS	35	-34.7	1.17	51.46	54	-2.54	-	-	215	238	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

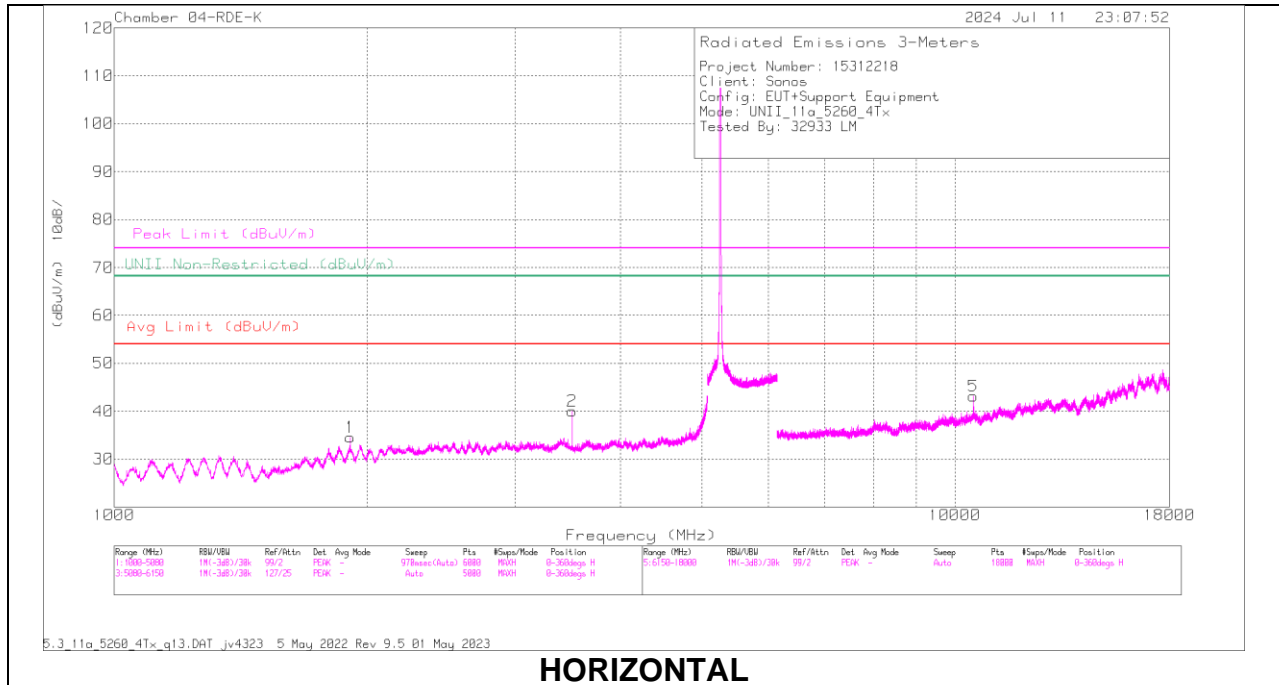


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	67.96	Pk	35	-34.7	0	68.26	-	-	74	-5.74	305	127	V
3	* 5.35	51.46	RMS	35	-34.7	1.17	52.93	54	-1.07	-	-	305	127	V
4	* 5.350418	51.39	RMS	35	-34.7	1.17	52.86	54	-1.14	-	-	305	127	V
2	* 5.350759	69.05	Pk	35	-34.7	0	69.35	-	-	74	-4.65	305	127	V

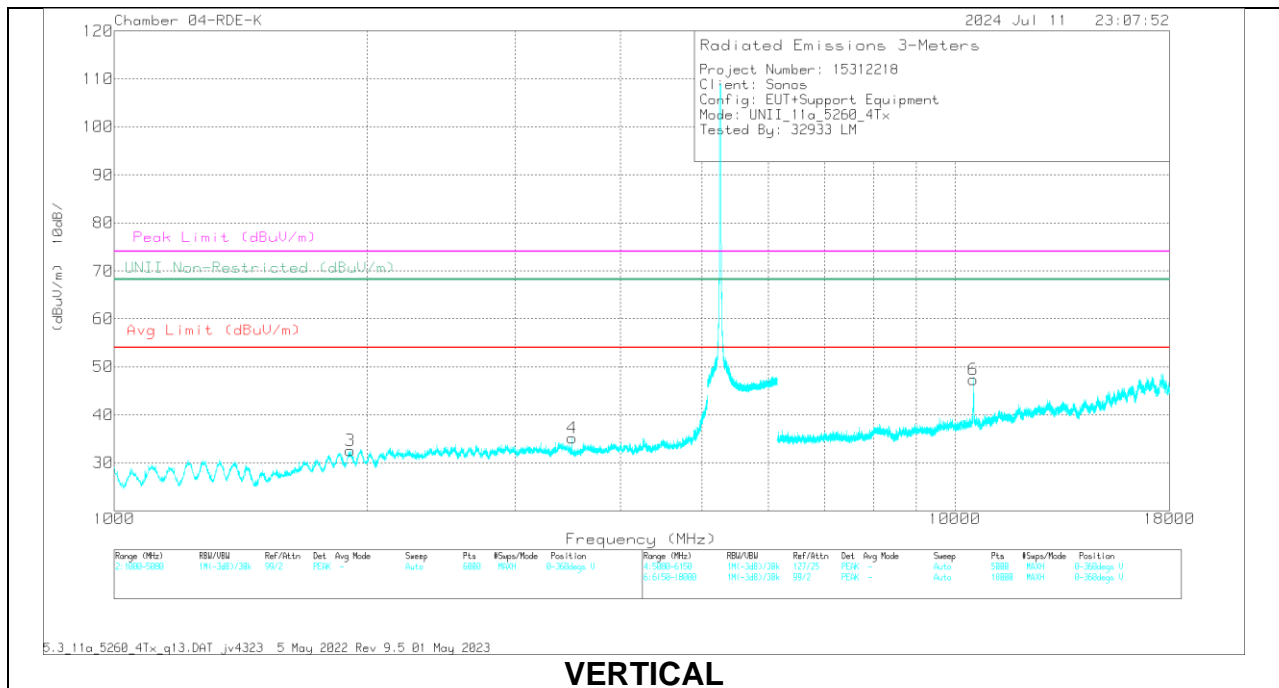
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



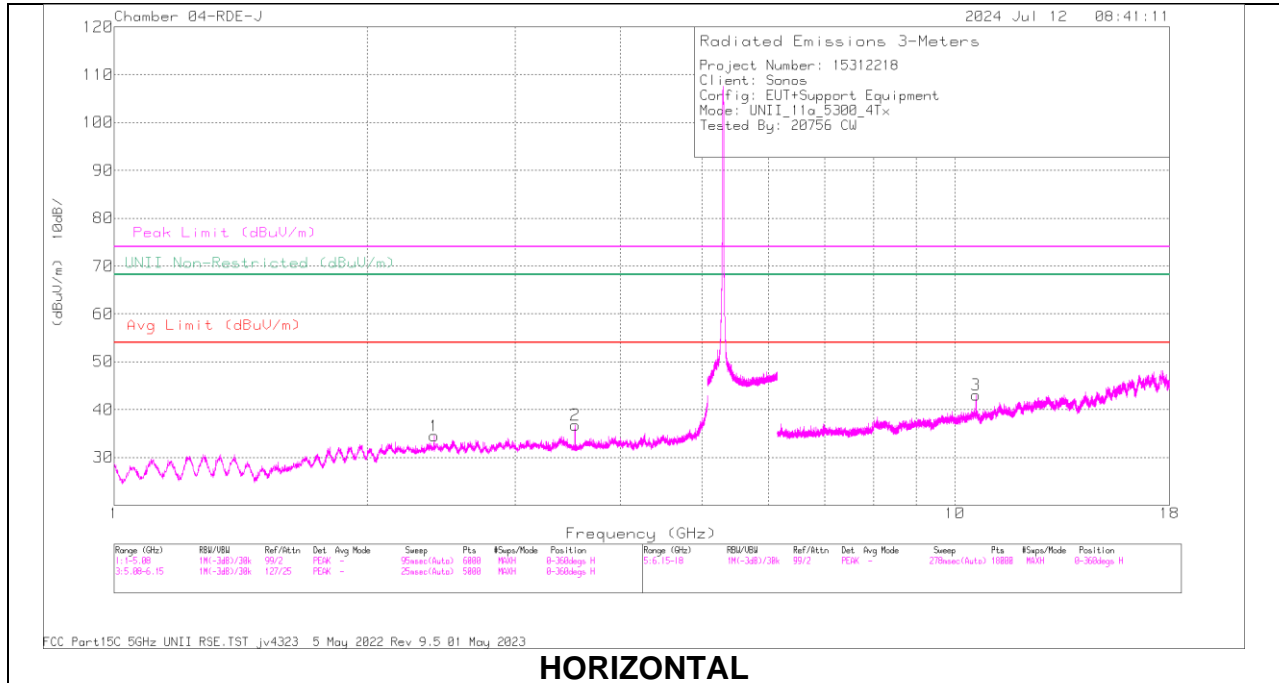
VERTICAL

RADIATED EMISSIONS

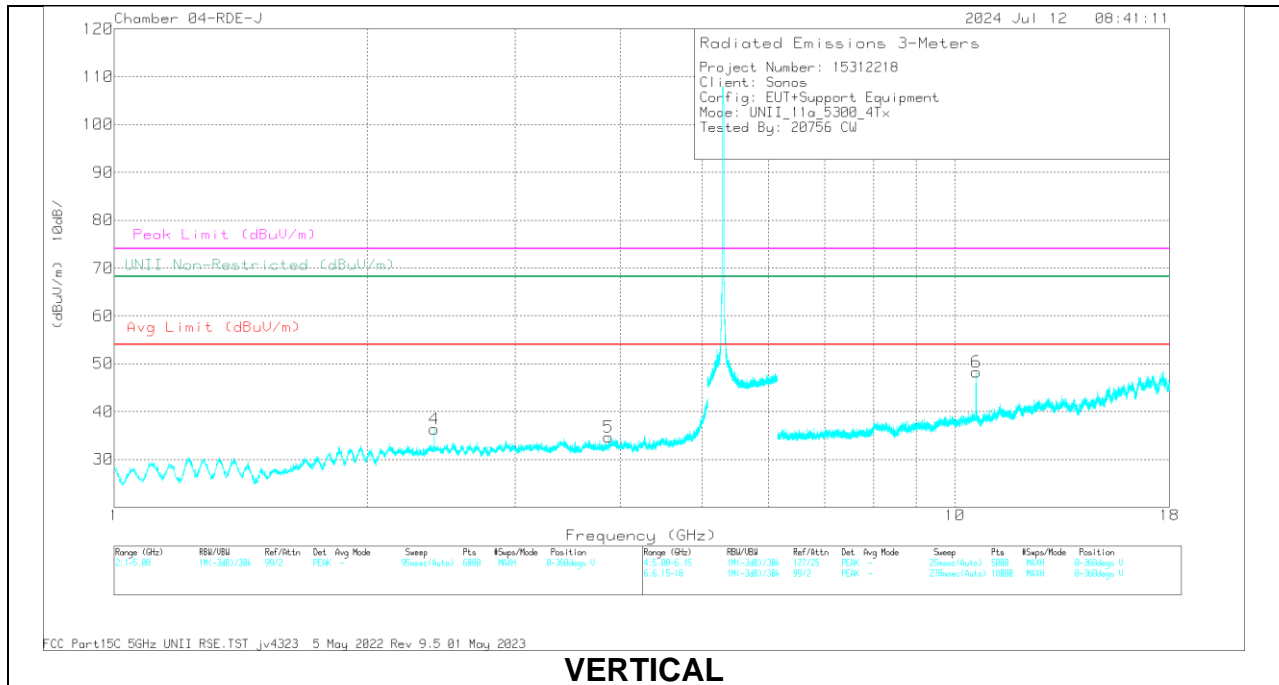
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22274 1 ACF 3m (dB/m)	Amp/Cbl/Ft r (dB)	DCC F (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1907.59	58.8	PK-U	30.9	-46.8	0	42.9	-	-	-	-	68.2	-25.3	196	331	H
	1906.475	46.63	ADR	30.9	-46.8	1.17	31.9	-	-	-	-	-	-	196	331	H
2	3506.655	57.76	PK-U	32.7	-44.3	0	46.16	-	-	74	-27.84	-	-	238	145	H
	3506.552	50.6	ADR	32.7	-44.3	1.17	40.17	54	-13.83	-	-	-	-	238	145	H
3	1910.515	66.48	PK-U	31	-46.8	0	50.68	-	-	-	-	68.2	-17.52	179	241	V
	1910.039	46.4	ADR	30.9	-46.8	1.17	31.67	-	-	-	-	-	-	179	241	V
4	3506.291	54.94	PK-U	32.7	-44.3	0	43.34	-	-	74	-30.66	-	-	155	107	V
	3506.705	44.68	ADR	32.7	-44.3	1.17	34.25	54	-19.75	-	-	-	-	155	107	V
5	10521.289	58.3	PK-U	37.5	-40.7	0	55.1	-	-	-	-	68.2	-13.1	288	184	H
	10521.493	46	ADR	37.5	-40.7	1.17	43.97	-	-	-	-	-	-	288	184	H
6	10519.508	62.23	PK-U	37.5	-40.7	0	59.03	-	-	-	-	68.2	-9.17	286	107	V
	10518.356	49.62	ADR	37.5	-40.7	1.17	47.59	-	-	-	-	-	-	286	107	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



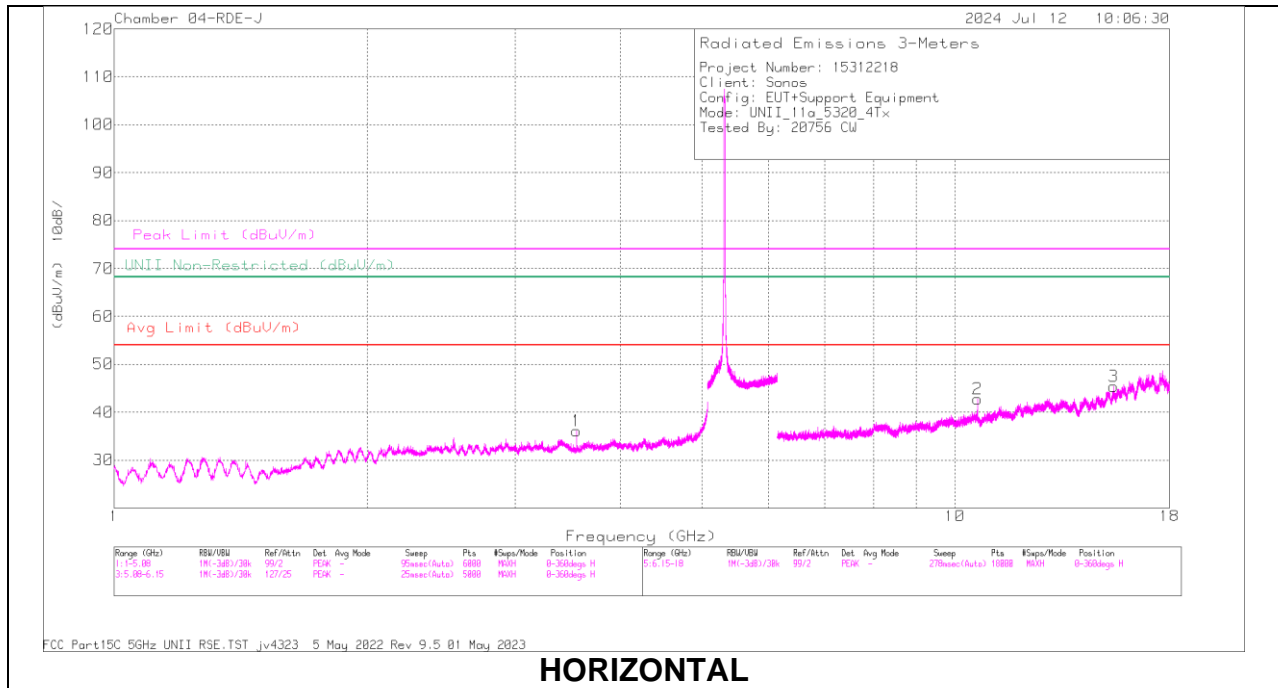
VERTICAL

RADIATED EMISSIONS

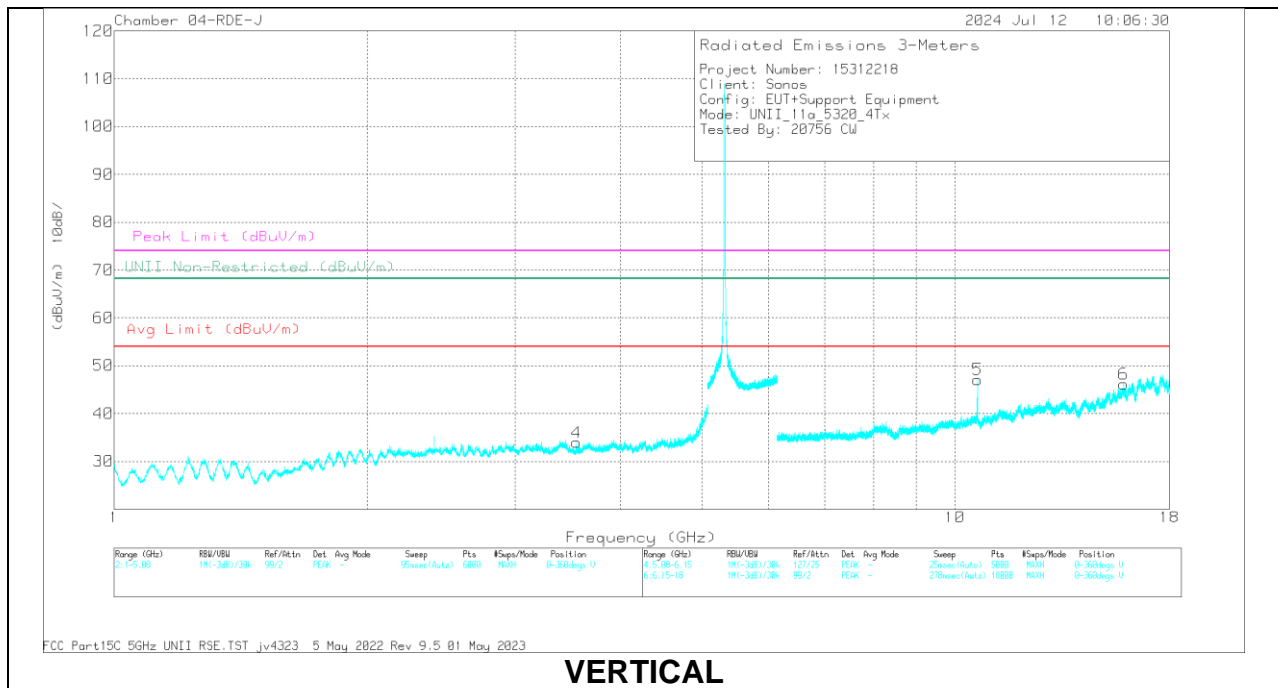
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.533403	56.66	PK-U	32.8	-44.4	0	45.06	-	-	74	-28.94	-	-	232	124	H
	* 3.533243	48.63	ADR	32.8	-44.4	1.17	38.2	54	-15.8	-	-	-	-	232	124	H
5	* 3.875355	55.47	PK-U	33.4	-44.5	0	44.37	-	-	74	-29.63	-	-	341	354	V
	* 3.875225	42.99	ADR	33.4	-44.5	1.17	33.06	54	-20.94	-	-	-	-	341	354	V
4	2.398205	45.41	ADR	32	-46.5	1.17	32.08	-	-	-	-	-	-	33	318	V
	2.399349	57.58	PK-U	32	-46.5	0	43.08	-	-	-	-	68.2	-25.12	33	318	V
1	2.401321	57.39	PK-U	32	-46.5	0	42.89	-	-	-	-	68.2	-25.31	354	278	H
	2.401868	45.54	ADR	32	-46.5	1.17	32.21	-	-	-	-	-	-	354	278	H
3	* 10.600845	44.99	ADR	37.5	-40	1.17	43.66	54	-10.34	-	-	-	-	308	231	H
	* 10.60095	57.74	PK-U	37.5	-40	0	55.24	-	-	74	-18.76	-	-	308	231	H
6	* 10.602135	48.31	ADR	37.5	-40	1.17	46.98	54	-7.02	-	-	-	-	262	121	V
	* 10.602852	61.86	PK-U	37.5	-39.9	0	59.46	-	-	74	-14.54	-	-	262	121	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Amp/Cbl/Ftr (dB)	DCCF (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	* 3.546277	56.07	PK-U	32.9	-44.5	0	44.47	-	-	74	-29.53	-	-	230	150	H
	* 3.546657	46.82	ADR	32.9	-44.5	1.17	36.39	54	-17.61	-	-	-	-	230	150	H
4	* 3.54619	55.55	PK-U	32.9	-44.5	0	43.95	-	-	74	-30.05	-	-	126	107	V
	* 3.546576	44.81	ADR	32.9	-44.5	1.17	34.38	54	-19.62	-	-	-	-	126	107	V
2	* 10.642107	58.7	PK-U	37.5	-40.3	0	55.9	-	-	74	-18.1	-	-	275	113	H
	* 10.642315	44.85	ADR	37.6	-40.3	1.17	43.32	54	-10.68	-	-	-	-	275	113	H
5	* 10.643546	63.51	PK-U	37.6	-40.3	0	60.81	-	-	74	-13.19	-	-	262	362	V
	* 10.64362	50.66	ADR	37.6	-40.3	1.17	49.13	54	-4.87	-	-	-	-	262	362	V
3	* 15.444296	54	PK-U	40.5	-38.9	0	55.6	-	-	74	-18.4	-	-	324	227	H
	* 15.444379	41.87	ADR	40.5	-38.9	1.17	44.64	54	-9.36	-	-	-	-	324	227	H
6	* 15.888405	41.84	ADR	41.1	-38.7	1.17	45.41	54	-8.59	-	-	-	-	257	239	V
	* 15.888435	53.93	PK-U	41.1	-38.7	0	56.33	-	-	74	-17.67	-	-	257	239	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average