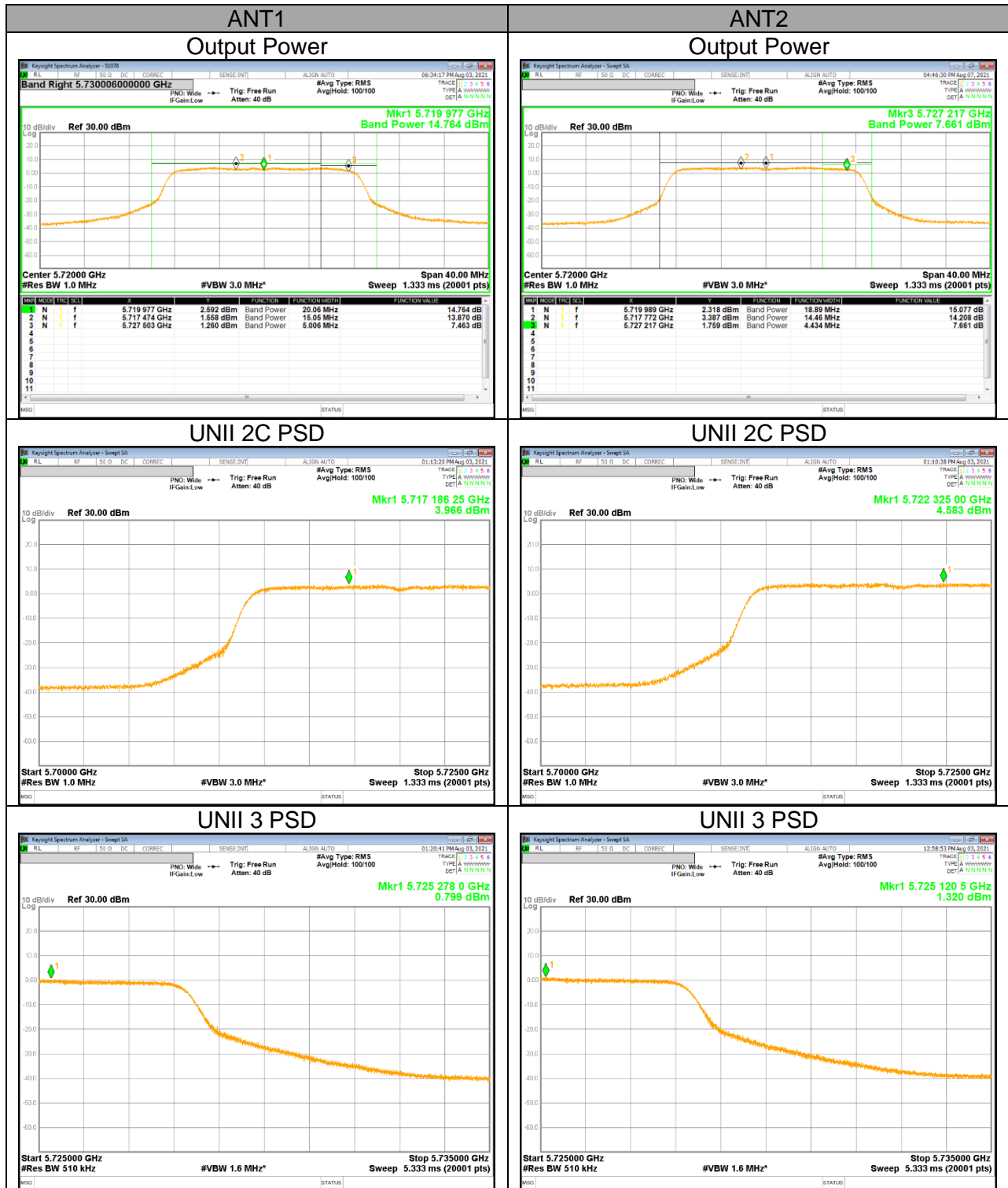
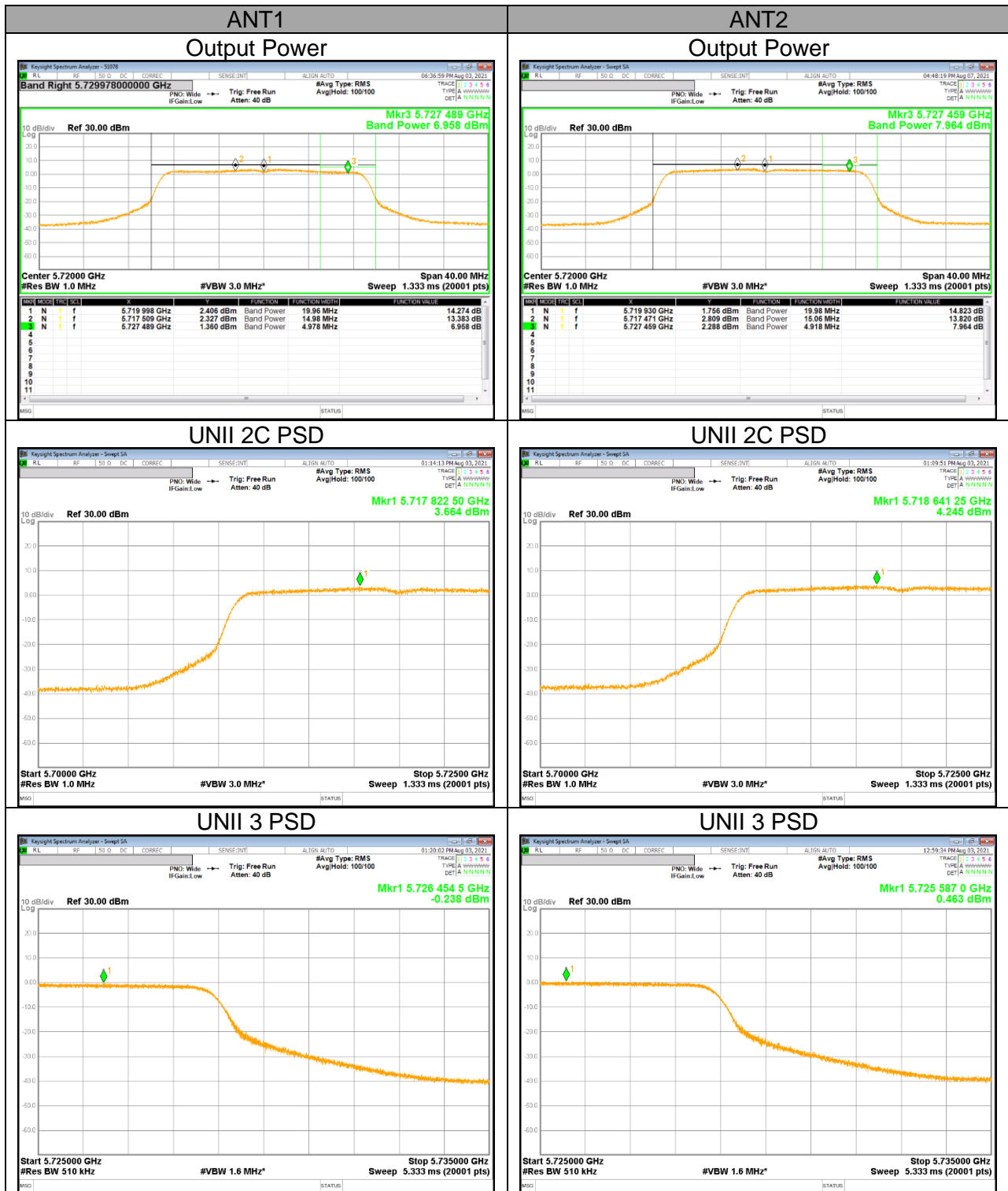


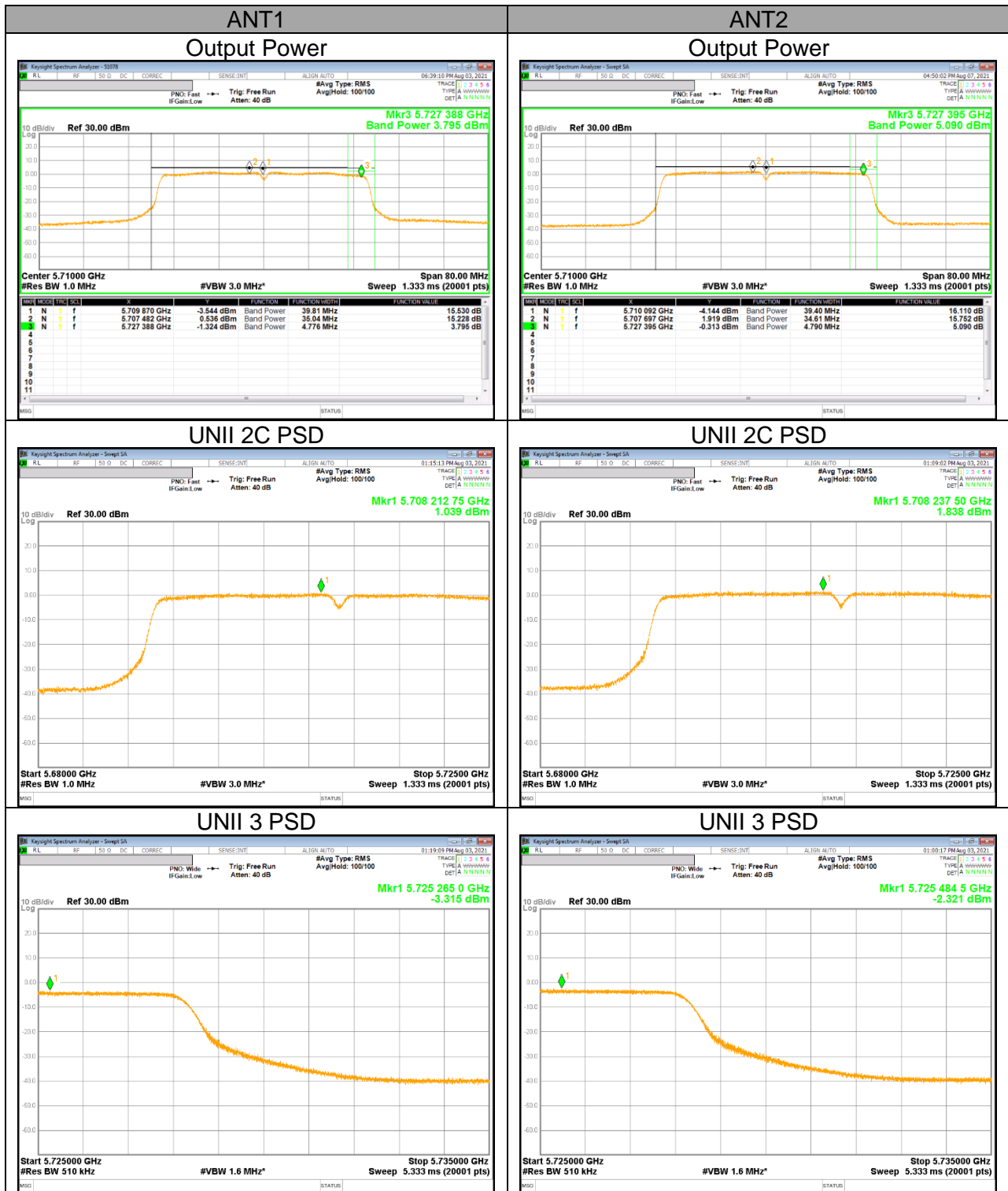
UNII Straddle Ch. IEEE 802.11a mode Output Power and PSD



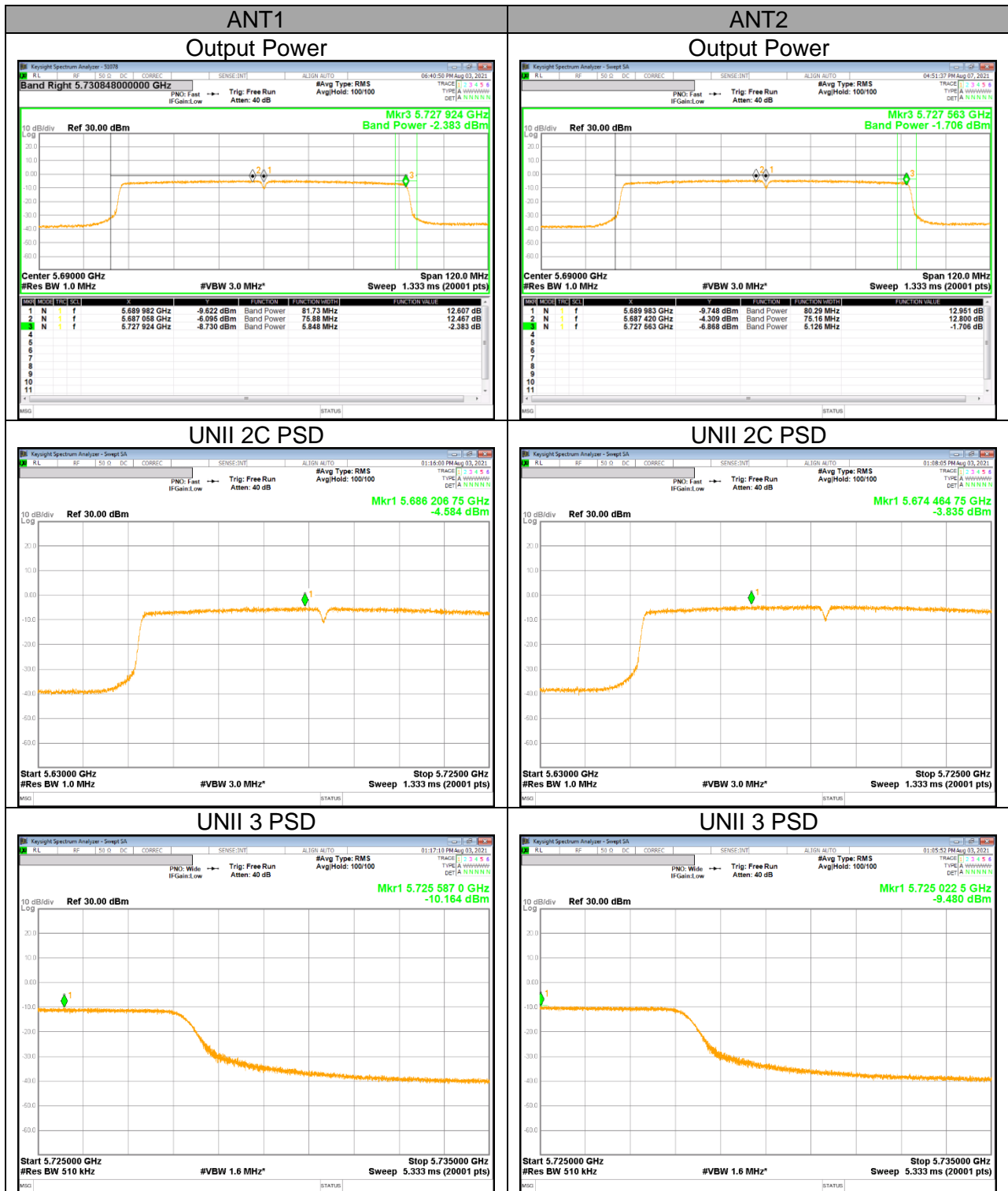
UNII Straddle Ch. IEEE 802.11n HT20 mode Output Power and PSD



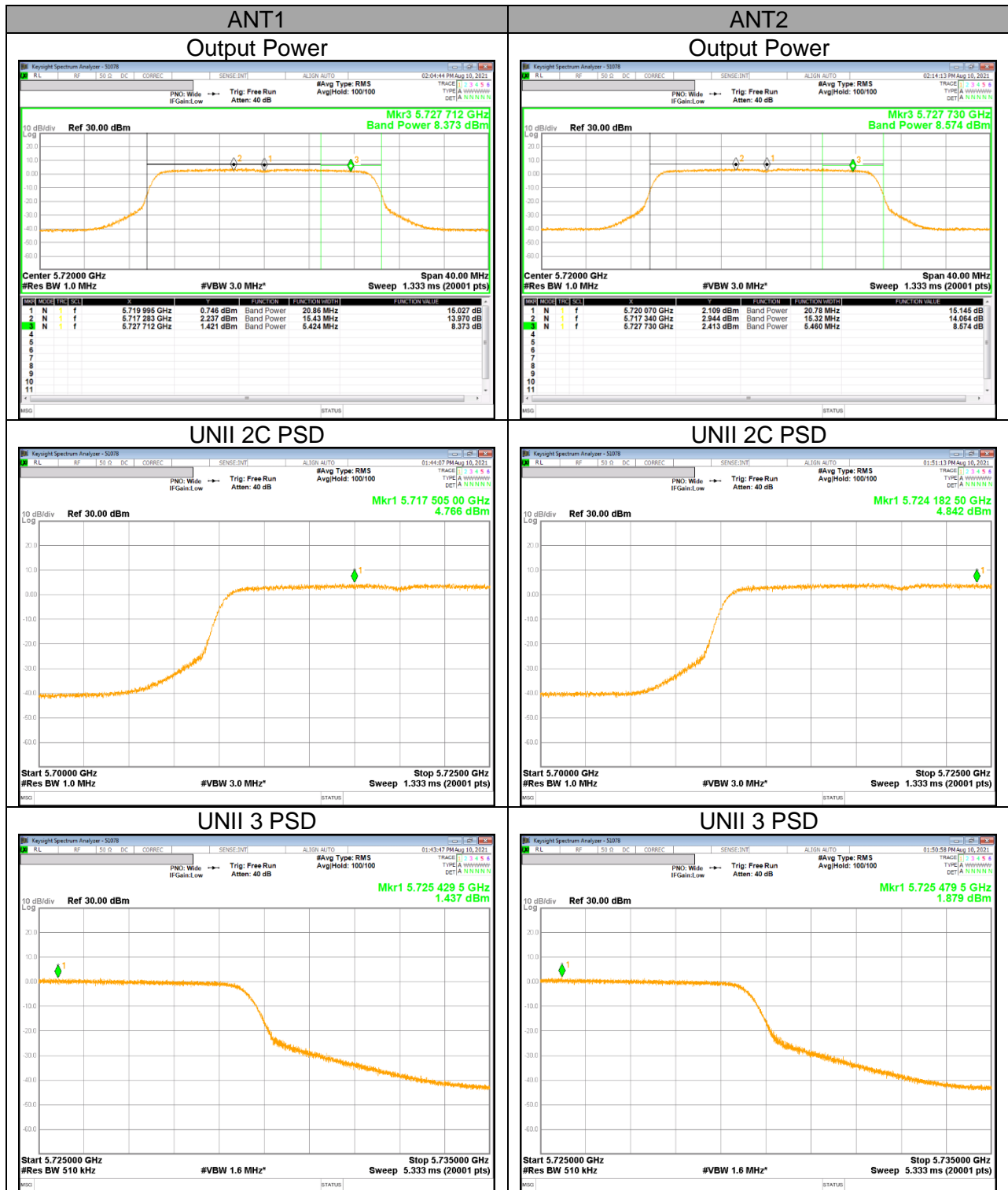
UNII Straddle Ch. IEEE 802.11n HT40 mode Output Power and PSD



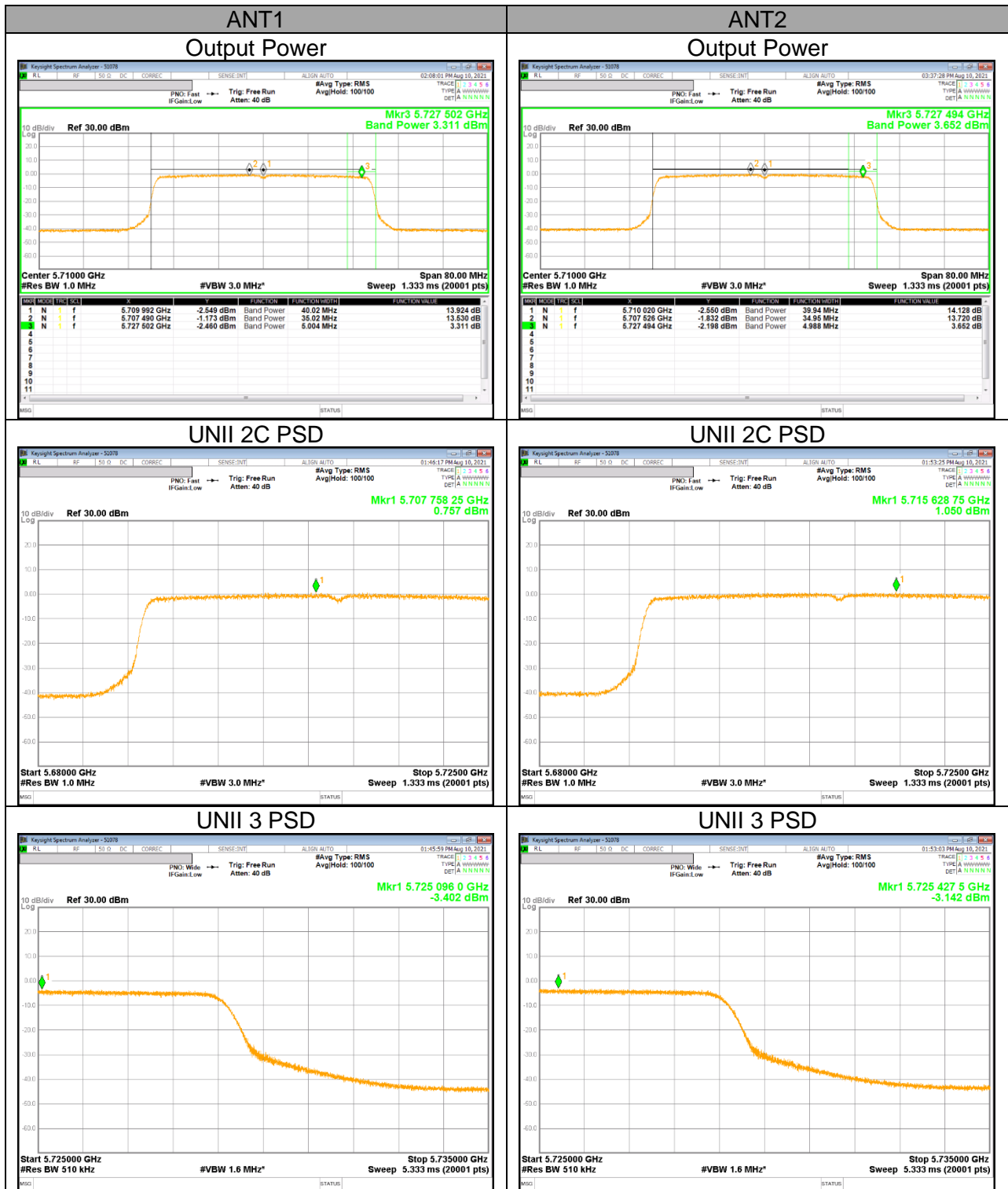
UNII Straddle Ch. IEEE 802.11ac VHT80 mode Output Power and PSD



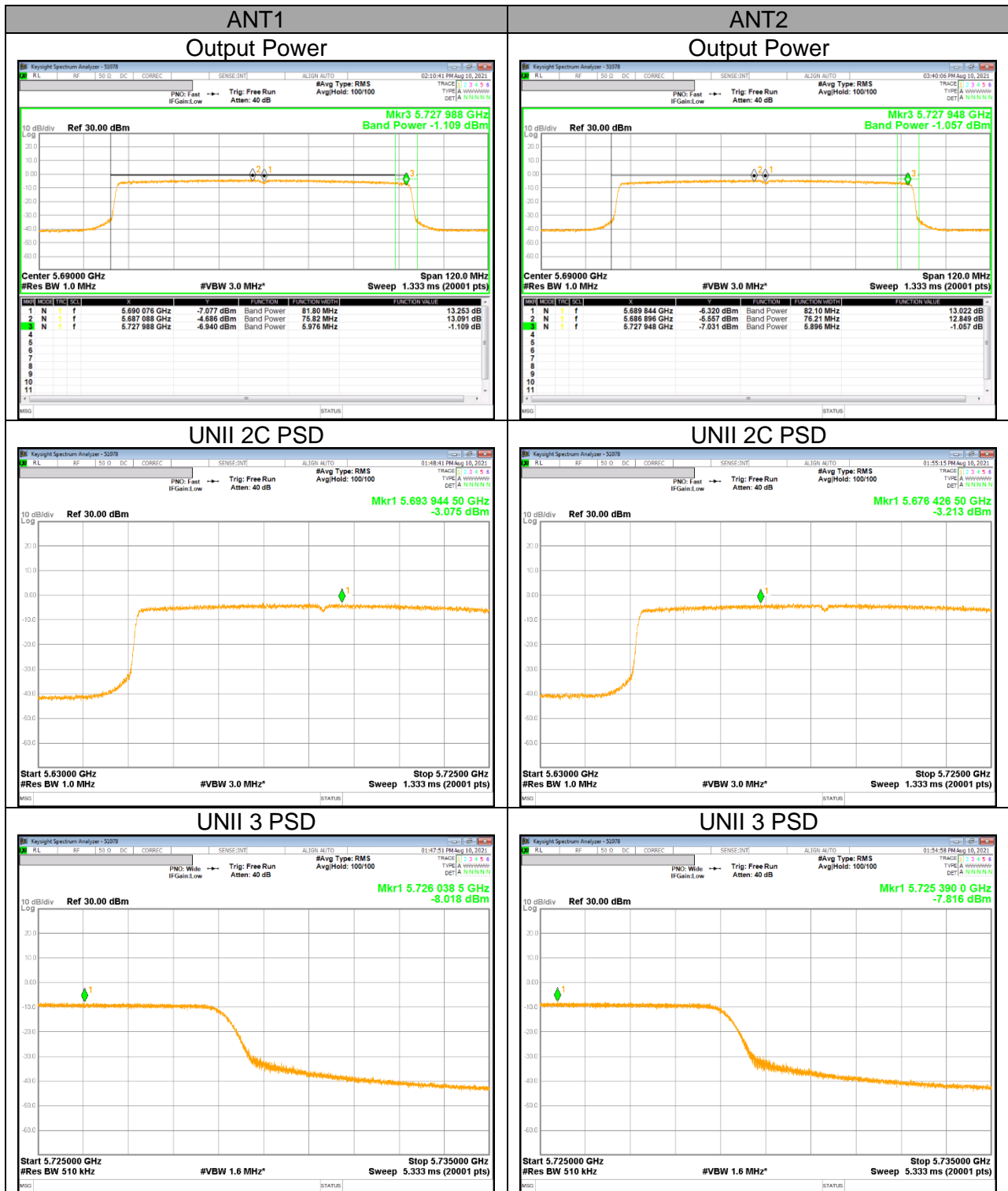
UNII Straddle Ch. IEEE 802.11ax HE20(SU) mode Output Power and PSD



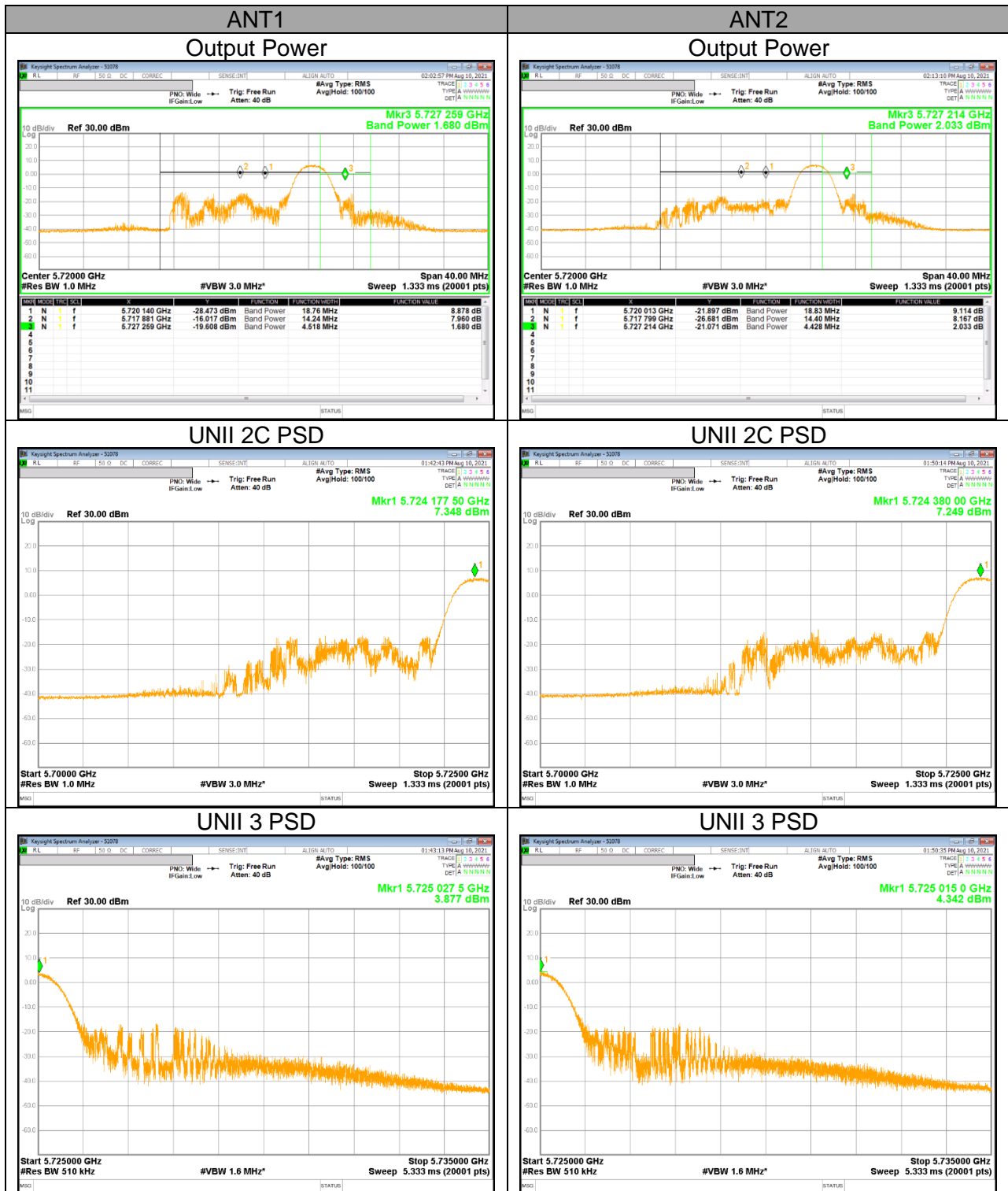
UNII Straddle Ch. IEEE 802.11ax HE40(SU) mode Output Power and PSD



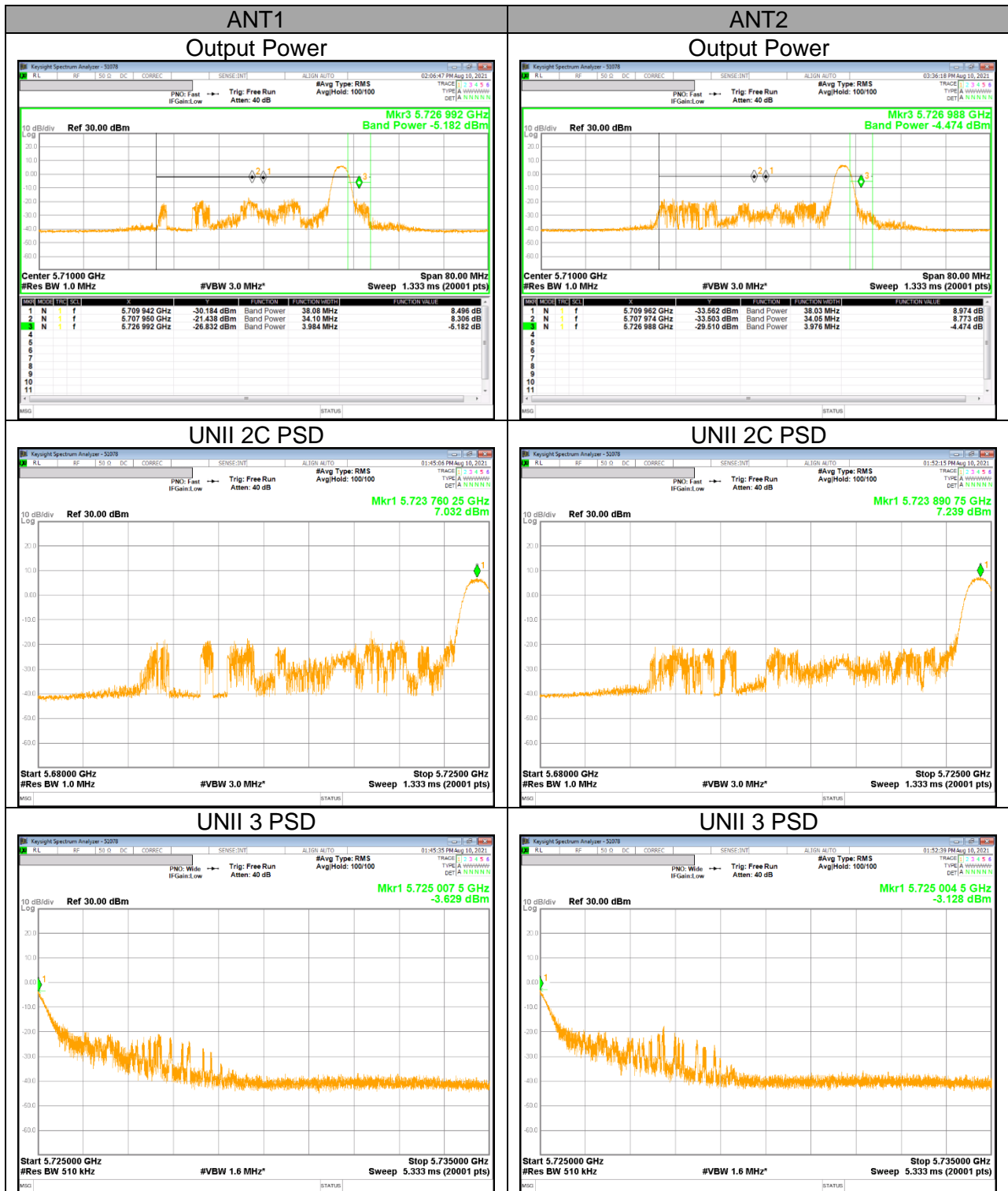
UNII Straddle Ch. IEEE 802.11ax HE80(SU) mode Output Power and PSD



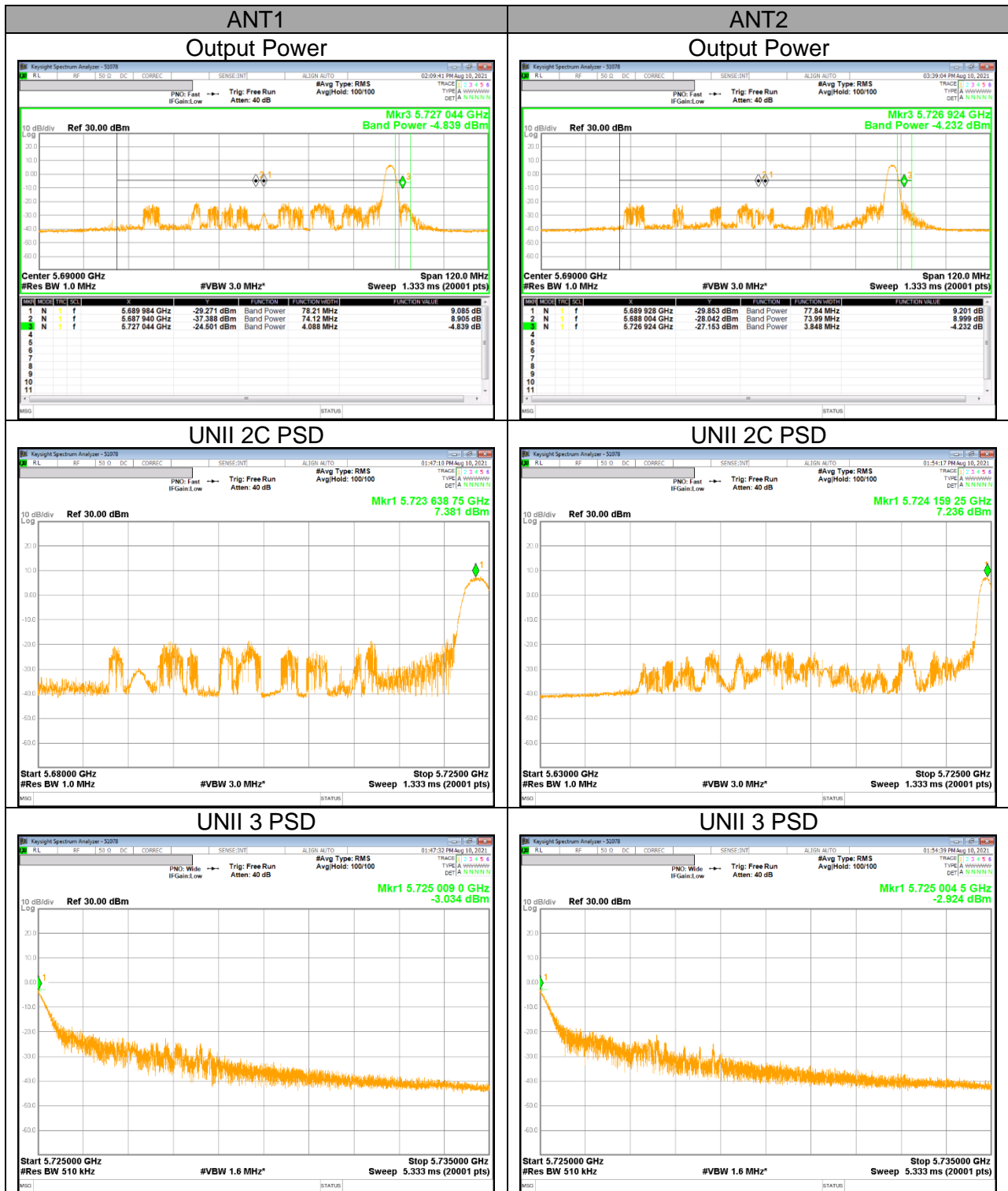
UNII Straddle Ch. IEEE 802.11ax HE20(6RU) mode Output Power and PSD



UNII Straddle Ch. IEEE 802.11ax HE40(15RU) mode Output Power and PSD



UNII Straddle Ch. IEEE 802.11ax HE80(34RU) mode Output Power and PSD



11. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~ 156.52525	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.7 ~ 156.9	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	162.0125 ~ 167.17	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	167.72 ~ 173.2	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	240 ~ 285	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	322 ~ 335.4	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	960 ~ 1240	3345.8 ~ 3358 3600 ~ 4400		

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

FCC §15.407 (b)

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary,
provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Note

- Limit translation to field strength level (FCC §15.407)

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -27\text{dBm} + 95.2 = 68.2\text{dBuV/m}$$

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -17\text{dBm} + 95.2 = 78.2\text{dBuV/m}$$

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 100 cm for 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. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 D02 v02r01 UNII part G) 6) c) Method AD:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

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.

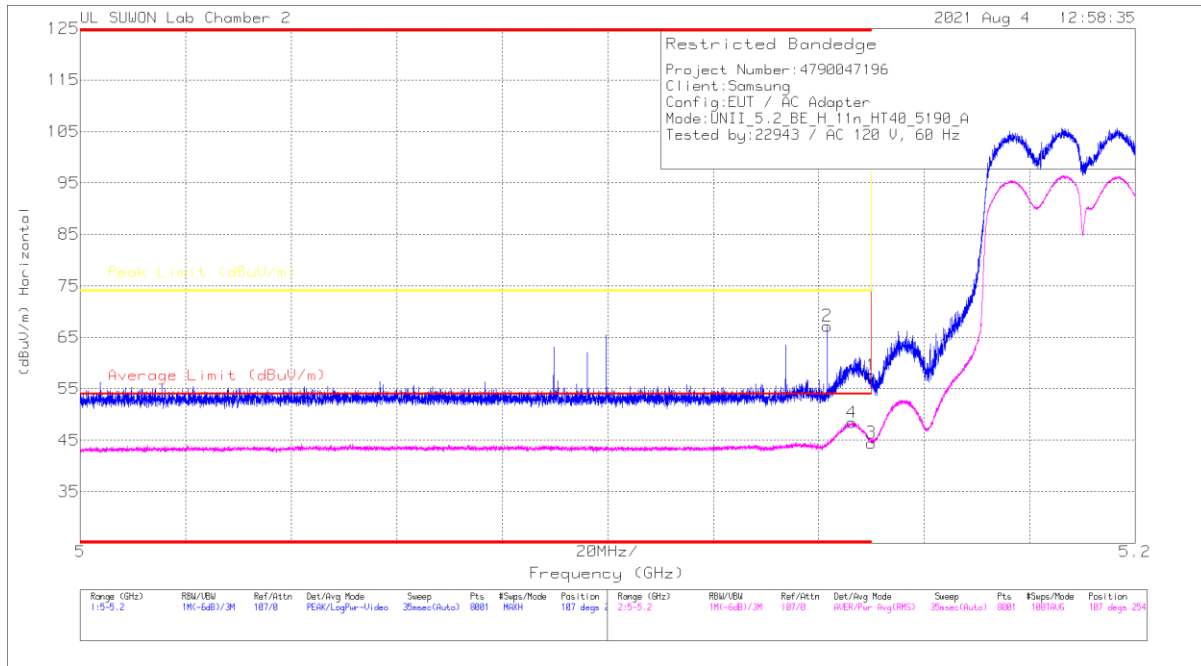
Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. TX ABOVE 1GHz 2Tx MODE IN THE 5.2GHz BAND

BANDEDGE (WORST CASE: 802.11n HT40 / 5190 MHz)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168924	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	5.15	40.9	Pk	34.4	-17.7	0	57.6	-	-	74	-16.4	107	254	H
2	* 5.1416	50.59	Pk	34.3	-17.7	0	67.19	-	-	74	-6.81	107	254	H
3	5.15	27.76	RMS	34.4	-17.7	0	44.46	54	-9.54	-	-	107	254	H
4	* 5.1463	31.64	RMS	34.4	-17.6	0	48.44	54	-5.56	-	-	107	254	H

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

Pk - Peak detector

RMS - RMS detection

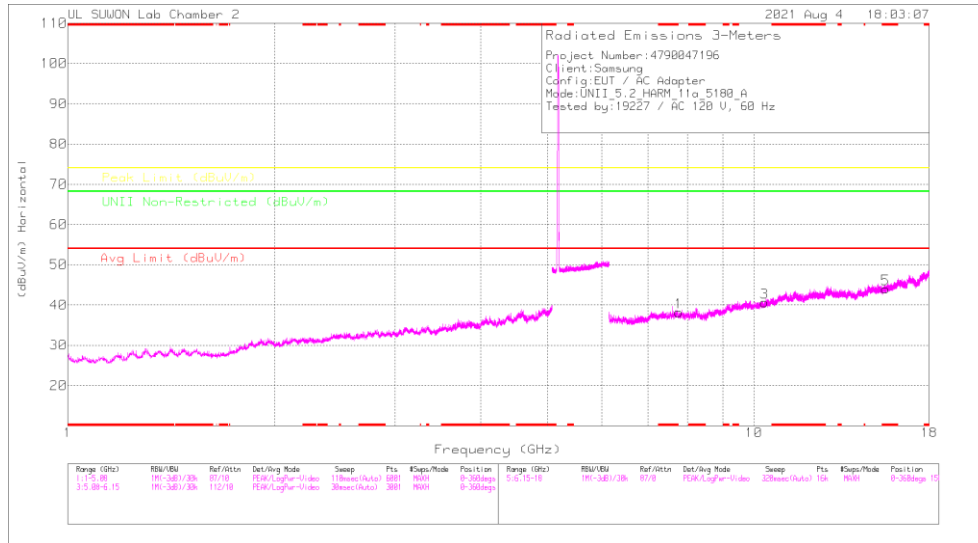
BANDEDGE TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11a	5180	MIMO	5.150	36.66	Pk	34.40	-17.70	0.00	53.36	-	-	74.00	-20.64	110	115	H	
			* 5.02528	40.20	Pk	34.20	-17.70	0.00	56.70	-	-	74.00	-17.30	110	115	H	
			5.150	27.99	RMS	34.40	-17.70	0.00	43.79	54.00	-10.21	-	-	110	115	H	
			* 5.14863	27.89	RMS	34.40	-17.70	0.00	44.59	54.00	-9.41	-	-	110	115	H	
			5.150	37.44	Pk	34.40	-17.70	0.00	54.14	-	-	-	74.00	-19.86	77	100	V
			* 5.03635	39.64	Pk	34.20	-17.70	0.00	56.14	-	-	-	74.00	-17.86	77	100	V
			5.150	27.04	RMS	34.40	-17.70	0.00	43.74	54.00	-10.26	-	-	77	100	V	
			* 5.14735	27.63	RMS	34.40	-17.70	0.00	44.33	54.00	-9.67	-	-	77	100	V	
802.11n (HT20)	5180	MIMO	5.150	36.59	Pk	34.40	-17.70	0.00	53.29	-	-	74.00	-20.71	113	129	H	
			* 5.07708	39.47	Pk	34.30	-17.70	0.00	56.07	-	-	74.00	-17.93	113	129	H	
			5.150	26.81	RMS	34.40	-17.70	0.00	43.51	54.00	-10.49	-	-	113	129	H	
			* 5.14818	27.73	RMS	34.40	-17.70	0.00	44.43	54.00	-9.57	-	-	113	129	H	
			5.150	36.71	Pk	34.40	-17.70	0.00	53.41	-	-	-	74.00	-20.59	77	100	V
			* 5.14958	40.05	Pk	34.40	-17.70	0.00	56.75	-	-	-	74.00	-17.25	77	100	V
			5.150	26.88	RMS	34.40	-17.70	0.00	43.58	54.00	-10.42	-	-	77	100	V	
			* 5.0528	27.59	RMS	34.20	-17.60	0.00	44.19	54.00	-9.81	-	-	77	100	V	
802.11n (HT40)	5190	MIMO	5.150	40.90	Pk	34.40	-17.70	0.00	57.60	-	-	74.00	-16.40	107	254	H	
			* 5.1416	50.59	Pk	34.30	-17.70	0.00	67.19	-	-	74.00	-6.81	107	254	H	
			5.150	27.76	RMS	34.40	-17.70	0.00	44.46	54.00	-9.54	-	-	107	254	H	
			* 5.1463	31.64	RMS	34.40	-17.60	0.00	48.44	54.00	-5.56	-	-	107	254	H	
			5.150	37.91	Pk	34.40	-17.70	0.00	54.61	-	-	-	74.00	-19.39	70	199	V
			* 5.1313	45.95	Pk	34.30	-17.70	0.00	62.55	-	-	-	74.00	-11.45	70	199	V
			5.150	27.60	RMS	34.40	-17.70	0.00	44.30	54.00	-9.70	-	-	70	199	V	
			* 5.14628	29.20	RMS	34.40	-17.60	0.00	46.00	54.00	-8.00	-	-	70	199	V	
802.11ac (VHT80)	5210	MIMO	5.150	36.94	Pk	34.40	-17.70	0.00	53.64	-	-	74.00	-20.36	111	104	H	
			* 5.14015	40.60	Pk	34.30	-17.70	0.00	57.20	-	-	74.00	-16.80	111	104	H	
			5.150	28.04	RMS	34.40	-17.70	0.00	44.74	54.00	-9.26	-	-	111	104	H	
			* 5.14108	28.70	RMS	34.30	-17.70	0.00	45.30	54.00	-8.70	-	-	111	104	H	
			5.150	39.64	Pk	34.40	-17.70	0.00	56.34	-	-	-	74.00	-17.66	90	109	V
			* 5.14795	42.80	Pk	34.40	-17.70	0.00	59.50	-	-	-	74.00	-14.50	90	109	V
			5.150	29.20	RMS	34.40	-17.70	0.00	45.90	54.00	-8.10	-	-	90	109	V	
			* 5.14915	29.81	RMS	34.40	-17.70	0.00	46.51	54.00	-7.49	-	-	90	109	V	
802.11ax (HE80) SU	5210	MIMO	* 5.14999	40.39	Pk	34.80	-20.80	0.00	54.39	-	-	74.00	-19.61	116	106	H	
			* 5.14962	43.64	Pk	34.80	-20.80	0.00	57.64	-	-	74.00	-16.36	116	106	H	
			* 5.14999	31.01	RMS	34.80	-20.80	0.00	45.01	54.00	-8.99	-	-	116	106	H	
			* 5.14537	31.67	RMS	34.80	-20.80	0.00	45.67	54.00	-8.33	-	-	116	106	H	
			* 5.14999	40.81	Pk	34.80	-20.80	0.00	54.81	-	-	-	74.00	-19.19	98	106	V
			* 5.14734	43.00	Pk	34.80	-20.80	0.00	57.00	-	-	-	74.00	-17.00	98	106	V
			* 5.14999	29.76	RMS	34.80	-20.80	0.00	43.76	54.00	-10.24	-	-	98	106	V	
			* 5.14947	30.95	RMS	34.80	-20.80	0.00	44.95	54.00	-9.05	-	-	98	106	V	

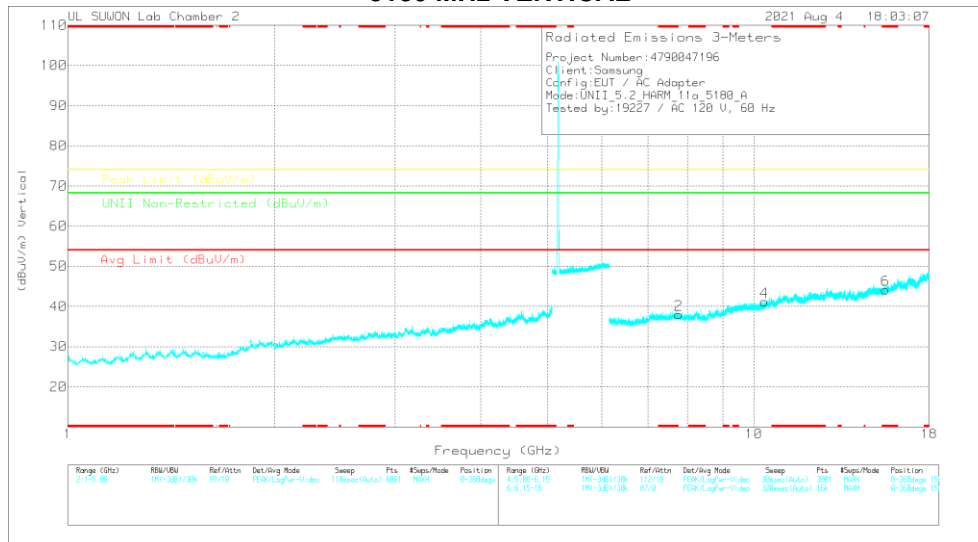
Note1. Pk - Peak detector, RMS - RMS detector

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11a / 5180 MHz)
5180 MHz HORIZONTAL



5180 MHz VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5180 MHz DATA

Radiated Emissions

Frequency (GHz)	Major Reading (dBuV)	Det	317_00168724	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
7.76727	35.14	PK-U	36	-23.2	0	47.91	-	-	-	-	68.2	-20.29	0	100	H
7.76756	35.85	PK-U	36	-23.1	0	48.75	-	-	-	-	68.2	-19.45	0	100	V
10.35812	33.29	PK-U	37.7	-20.1	0	50.89	-	-	-	-	68.2	-17.31	0	100	H
10.3586	33.82	PK-U	37.7	-20.1	0	51.82	-	-	-	-	68.2	-16.38	0	100	V
* 15.53793	34.13	PK-U	40	-19.4	0	54.73	-	-	74	-19.27	-	-	0	100	H
* 15.54028	33.84	PK-U	40	-19.4	0	54.44	-	-	74	-19.56	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

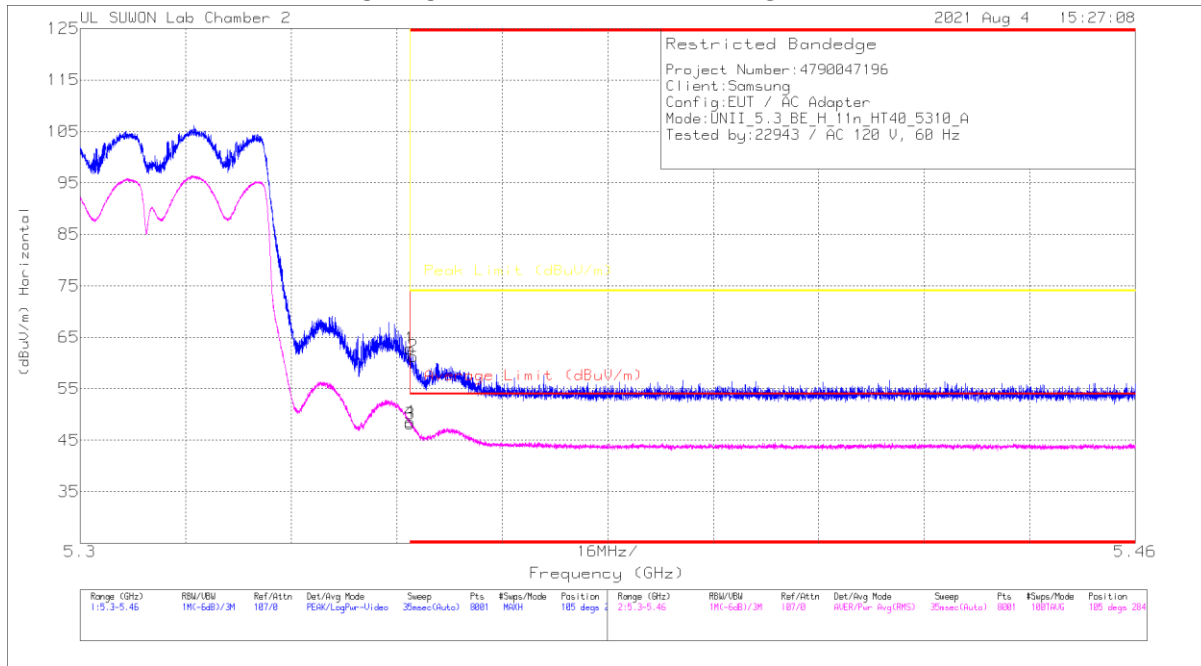
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11a	5180	MIMO	7.767	35.11	PK-U	36.00	-23.20	0.00	47.91	-	-	-	-	68.20	-20.29	0	100	H	
			7.768	35.85	PK-U	36.00	-23.10	0.00	48.75	-	-	-	-	-	68.20	-19.45	0	100	V
			10.358	33.29	PK-U	37.70	-20.10	0.00	50.89	-	-	-	-	-	68.20	-17.31	0	100	H
			10.359	33.82	PK-U	37.70	-20.10	0.00	51.82	-	-	-	-	-	68.20	-16.38	0	100	V
			* 15.53793	34.13	PK-U	40.00	-19.40	0.00	54.73	-	-	74.00	-19.27	-	-	-	0	100	H
	* 15.54028	33.84	PK-U	40.00	-19.40	0.00	54.44	-	-	74.00	-19.56	-	-	-	0	100	V		
	5200	MIMO	7.797	35.70	PK-U	36.00	-23.20	0.00	48.50	-	-	-	-	68.20	-19.70	0	100	H	
			7.798	35.68	PK-U	36.00	-23.30	0.00	48.38	-	-	-	-	68.20	-19.82	0	100	V	
			10.398	33.44	PK-U	37.70	-20.10	0.00	51.04	-	-	-	-	-	68.20	-17.16	0	100	H
			10.400	32.90	PK-U	37.70	-20.10	0.00	50.50	-	-	-	-	-	68.20	-17.70	0	100	V
			* 15.59989	33.84	PK-U	40.00	-19.50	0.00	54.34	-	-	74.00	-19.66	-	-	-	0	100	H
	* 15.60148	34.01	PK-U	40.00	-19.50	0.00	54.51	-	-	74.00	-19.49	-	-	-	0	100	V		
	5240	MIMO	7.862	36.57	PK-U	36.00	-23.70	0.00	48.87	-	-	-	-	68.20	-19.33	0	100	H	
			7.862	35.81	PK-U	36.00	-23.70	0.00	48.11	-	-	-	-	68.20	-20.09	0	100	V	
			10.481	32.66	PK-U	37.80	-19.90	0.00	50.56	-	-	-	-	-	68.20	-17.64	0	100	H
10.478			32.72	PK-U	37.80	-19.90	0.00	50.62	-	-	-	-	-	68.20	-17.58	0	100	V	
* 15.72204			33.79	PK-U	40.20	-19.50	0.00	54.49	-	-	74.00	-19.51	-	-	-	0	100	H	
* 15.71897	33.83	PK-U	40.20	-19.30	0.00	54.73	-	-	74.00	-19.27	-	-	-	0	100	V			
802.11ac (VHT80) Spot-Check	5210	MIMO	7.813	36.34	PK-U	36.00	-23.60	0.00	48.74	-	-	-	-	68.20	-19.46	360	100	H	
			7.816	35.92	PK-U	36.00	-23.60	0.00	48.32	-	-	-	-	68.20	-19.88	360	100	V	
			10.419	33.62	PK-U	37.70	-20.10	0.00	51.22	-	-	-	-	-	68.20	-16.98	360	100	H
			10.416	32.79	PK-U	37.70	-20.10	0.00	50.39	-	-	-	-	-	68.20	-17.81	360	100	V
			* 15.63442	36.19	PK-U	40.10	-19.60	0.00	56.69	-	-	74.00	-17.31	-	-	360	100	H	
			* 15.62769	34.68	PK-U	40.10	-19.40	0.00	55.38	-	-	74.00	-18.62	-	-	360	100	V	
802.11ax (HE20) 0RU	5200	MIMO	7.791	35.89	PK-U	36.30	-24.10	0.00	48.09	-	-	-	-	68.20	-20.11	0	100	H	
			7.805	36.20	PK-U	36.30	-24.00	0.00	48.50	-	-	-	-	68.20	-19.70	0	100	V	
			10.405	34.26	PK-U	38.10	-20.90	0.00	51.46	-	-	-	-	-	68.20	-16.74	0	100	H
			10.402	33.96	PK-U	38.10	-20.90	0.00	51.16	-	-	-	-	-	68.20	-17.04	0	100	V
			* 15.60653	34.75	PK-U	40.30	-21.40	0.00	53.65	-	-	74.00	-20.35	-	-	0	100	H	
			* 15.59864	34.92	PK-U	40.30	-21.50	0.00	53.72	-	-	74.00	-20.28	-	-	0	100	V	
802.11ax (HE40) 0RU Spot-Check	5230	MIMO	7.862	35.81	PK-U	36.30	-23.50	0.00	48.61	-	-	-	-	68.20	-19.59	360	100	H	
			7.863	35.78	PK-U	36.30	-23.50	0.00	48.58	-	-	-	-	68.20	-19.62	360	100	V	
			10.452	34.09	PK-U	38.20	-21.10	0.00	51.19	-	-	-	-	-	68.20	-17.01	360	100	H
			10.460	33.75	PK-U	38.20	-21.00	0.00	50.95	-	-	-	-	-	68.20	-17.25	360	100	V
			* 15.69415	34.76	PK-U	40.50	-21.20	0.00	54.06	-	-	74.00	-19.94	-	-	360	100	H	
			* 15.696	34.49	PK-U	40.50	-21.20	0.00	53.79	-	-	74.00	-20.21	-	-	360	100	V	
802.11ax (HE80) 36RU Spot-Check	5210	MIMO	7.806	36.37	PK-U	36.30	-24.00	0.00	48.67	-	-	-	-	68.20	-19.53	360	100	H	
			7.811	35.64	PK-U	36.30	-23.90	0.00	48.04	-	-	-	-	68.20	-20.16	360	100	V	
			10.397	34.40	PK-U	38.10	-20.90	0.00	51.60	-	-	-	-	-	68.20	-16.60	360	100	H
			10.398	34.68	PK-U	38.10	-21.00	0.00	51.78	-	-	-	-	-	68.20	-16.42	360	100	V
			* 15.60014	34.34	PK-U	40.30	-21.50	0.00	53.14	-	-	74.00	-20.86	-	-	360	100	V	
			* 15.59635	34.74	PK-U	40.30	-21.50	0.00	53.54	-	-	74.00	-20.46	-	-	360	100	V	

Note1. PK-U - U-NII: Maximum Peak
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.2. TX ABOVE 1GHz 2Tx MODE IN THE 5.3GHz BAND

BANDEDGE (WORST CASE: 802.11n HT40 / 5310 MHz)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	46.04	Pk		34.5	-17.7	62.84	-	-	74	-11.16	105	284	H
2	* 5.35048	44.5	Pk		34.5	-17.7	61.3	-	-	74	-12.7	105	284	H
3	* 5.35002	31.38	RMS		34.5	-17.7	48.18	54	-5.82	-	-	105	284	H
4	* 5.35004	31.77	RMS		34.5	-17.7	48.57	54	-5.43	-	-	105	284	H

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

Pk - Peak detector

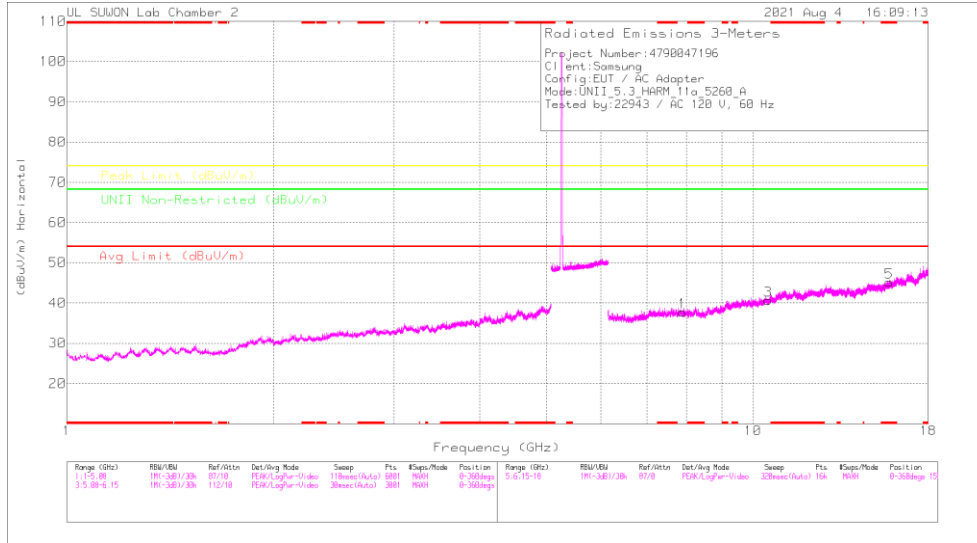
RMS - RMS detection

BANDEDGE TEST DATA

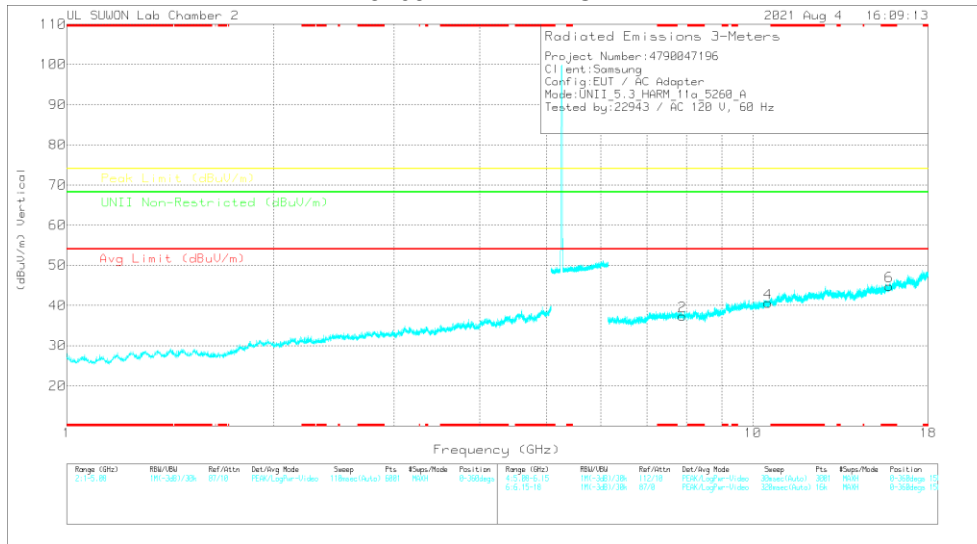
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
5320	MIMO	* 5.35002	38.30	Pk	34.50	-17.70	0.00	55.10	-	-	74.00	-18.90	112	272	H	
		* 5.35618	41.46	Pk	34.50	-17.70	0.00	58.26	-	-	74.00	-15.74	112	272	H	
		* 5.35002	27.73	RMS	34.50	-17.70	0.00	44.53	54.00	-9.47	-	-	-	112	272	H
		* 5.35026	28.15	RMS	34.50	-17.70	0.00	44.95	54.00	-9.05	-	-	-	112	272	H
		* 5.35002	36.98	Pk	34.50	-17.70	0.00	53.78	-	-	74.00	-20.22	89	100	V	
		* 5.35572	40.36	Pk	34.50	-17.70	0.00	57.16	-	-	74.00	-16.84	89	100	V	
		* 5.35002	27.61	RMS	34.50	-17.70	0.00	44.41	54.00	-9.59	-	-	-	89	100	V
		* 5.35278	27.96	RMS	34.50	-17.70	0.00	44.76	54.00	-9.24	-	-	-	89	100	V
5320	MIMO	* 5.35002	37.69	Pk	34.50	-17.70	0.00	54.49	-	-	74.00	-19.51	104	282	H	
		* 5.36388	39.91	Pk	34.50	-17.70	0.00	56.71	-	-	74.00	-17.29	104	282	H	
		* 5.35002	27.57	RMS	34.50	-17.70	0.00	44.37	54.00	-9.63	-	-	-	104	282	H
		* 5.35026	27.95	RMS	34.50	-17.70	0.00	44.75	54.00	-9.25	-	-	-	104	282	H
		* 5.35002	37.22	Pk	34.50	-17.70	0.00	54.02	-	-	74.00	-19.98	87	100	V	
		* 5.4455	39.66	Pk	34.60	-17.80	0.00	56.46	-	-	74.00	-17.54	87	100	V	
		* 5.35002	26.97	RMS	34.50	-17.70	0.00	43.77	54.00	-10.23	-	-	-	87	100	V
		* 5.35992	27.68	RMS	34.50	-17.70	0.00	44.48	54.00	-9.52	-	-	-	87	100	V
5310	MIMO	* 5.35002	46.04	Pk	34.50	-17.70	0.00	62.84	-	-	74.00	-11.16	105	284	H	
		* 5.35048	44.50	Pk	34.50	-17.70	0.00	61.30	-	-	74.00	-12.70	105	284	H	
		* 5.35002	31.38	RMS	34.50	-17.70	0.00	48.18	54.00	-5.82	-	-	-	105	284	H
		* 5.35004	31.77	RMS	34.50	-17.70	0.00	48.57	54.00	-5.43	-	-	-	105	284	H
		* 5.35002	39.25	Pk	34.50	-17.70	0.00	56.05	-	-	74.00	-17.95	102	131	V	
		* 5.35488	43.21	Pk	34.50	-17.70	0.00	60.01	-	-	74.00	-13.99	102	131	V	
		* 5.35002	28.85	RMS	34.50	-17.70	0.00	45.65	54.00	-8.35	-	-	-	102	131	V
		* 5.3545	30.33	RMS	34.50	-17.80	0.00	47.03	54.00	-6.97	-	-	-	102	131	V
5290	MIMO	* 5.35002	40.42	Pk	34.50	-17.70	0.00	57.22	-	-	74.00	-16.78	107	284	H	
		* 5.35402	42.56	Pk	34.50	-17.80	0.00	59.26	-	-	74.00	-14.74	107	284	H	
		* 5.35002	29.82	RMS	34.50	-17.70	0.00	46.62	54.00	-7.38	-	-	-	107	284	H
		* 5.35072	30.23	RMS	34.50	-17.70	0.00	47.03	54.00	-6.97	-	-	-	107	284	H
		* 5.35002	38.78	Pk	34.50	-17.70	0.00	55.58	-	-	74.00	-18.42	97	111	V	
		* 5.35234	41.65	Pk	34.50	-17.70	0.00	58.45	-	-	74.00	-15.55	97	111	V	
		* 5.35002	29.21	RMS	34.50	-17.70	0.00	46.01	54.00	-7.99	-	-	-	97	111	V
		* 5.35152	29.59	RMS	34.50	-17.70	0.00	46.39	54.00	-7.61	-	-	-	97	111	V
5290	MIMO	* 5.35001	41.19	Pk	35.10	-20.50	0.00	55.79	-	-	74.00	-18.21	127	110	H	
		* 5.36337	43.26	Pk	35.10	-20.40	0.00	57.96	-	-	74.00	-16.04	127	110	H	
		* 5.35001	30.49	RMS	35.10	-20.50	0.00	45.09	54.00	-8.91	-	-	-	127	110	H
		* 5.35063	32.00	RMS	35.10	-20.50	0.00	46.60	54.00	-7.40	-	-	-	127	110	H
		* 5.35001	39.47	Pk	35.10	-20.50	0.00	54.07	-	-	74.00	-19.93	104	108	V	
		* 5.35423	43.37	Pk	35.10	-20.40	0.00	58.07	-	-	74.00	-15.93	104	108	V	
		* 5.35001	29.97	RMS	35.10	-20.50	0.00	44.57	54.00	-9.43	-	-	-	104	108	V
		* 5.35099	30.89	RMS	35.10	-20.40	0.00	45.59	54.00	-8.41	-	-	-	104	108	V

Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11a / 5260 MHz)
5260 MHz HORIZONTAL



5260 MHz VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5260 MHz DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Dist	317_00160724	6GHz_HFSSR	DC Corr (dB)	Conducted Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
7.88839	35.92	PK-U	36	-23.7	0	48.22	-	-	-	-	68.2	-19.98	0	100	H
7.88704	36.18	PK-U	36	-23.8	0	48.38	-	-	-	-	68.2	-19.82	0	100	V
10.52207	33.54	PK-U	37.8	-19.8	0	51.54	-	-	-	-	68.2	-16.66	0	100	H
10.51768	32.6	PK-U	37.8	-19.8	0	50.6	-	-	-	-	68.2	-17.6	0	100	V
* 15.7792	34.4	PK-U	40.3	-19.5	0	55.2	-	-	74	-18.8	-	-	0	100	H
* 15.78215	34.13	PK-U	40.3	-19.6	0	54.83	-	-	74	-19.17	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

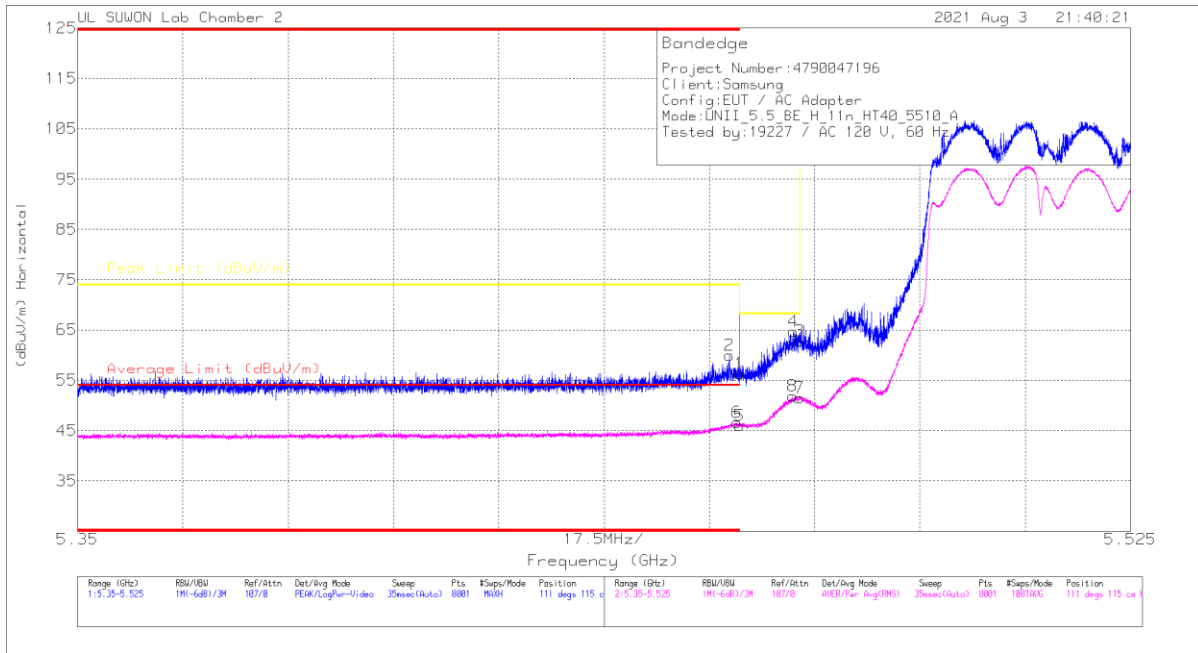
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11a	5260	MIMO	7.888	35.92	PK-U	36.00	-23.70	0.00	48.22	-	-	-	-	68.20	-19.98	0	100	H	
			7.887	36.18	PK-U	36.00	-23.80	0.00	48.38	-	-	-	-	68.20	-19.82	0	100	V	
			10.522	33.54	PK-U	37.80	-19.80	0.00	51.54	-	-	-	-	68.20	-16.66	0	100	H	
			10.518	32.60	PK-U	37.80	-19.80	0.00	50.60	-	-	-	-	68.20	-17.60	0	100	V	
			*15.7792	34.40	PK-U	40.30	-19.50	0.00	55.20	-	-	74.00	-18.80	-	-	0	100	H	
	*15.78215	34.13	PK-U	40.30	-19.60	0.00	54.83	-	-	74.00	-19.17	-	-	0	100	V			
	5300	MIMO	7.955	36.00	PK-U	36.00	-23.10	0.00	48.90	-	-	-	-	68.20	-19.30	0	100	H	
			7.955	35.85	PK-U	36.00	-23.10	0.00	48.75	-	-	-	-	68.20	-19.45	0	100	V	
			*10.60175	32.57	PK-U	37.90	-18.70	0.00	51.77	-	-	74.00	-22.23	-	-	0	100	H	
			*10.60174	32.72	PK-U	37.90	-18.70	0.00	51.92	-	-	74.00	-22.08	-	-	0	100	V	
			*15.89961	34.14	PK-U	40.50	-19.00	0.00	55.64	-	-	74.00	-18.36	-	-	0	100	H	
			*15.89958	34.12	PK-U	40.50	-19.00	0.00	55.62	-	-	74.00	-18.38	-	-	0	100	V	
			7.980	35.56	PK-U	36.00	-23.30	0.00	48.26	-	-	-	-	-	68.20	-19.94	0	100	H
			7.978	35.48	PK-U	36.00	-23.30	0.00	48.18	-	-	-	-	-	68.20	-20.02	0	100	V
			*10.63328	32.84	PK-U	37.90	-18.90	0.00	51.84	-	-	74.00	-22.16	-	-	0	100	H	
*10.63368			32.97	PK-U	37.90	-18.90	0.00	51.97	-	-	74.00	-22.03	-	-	0	100	V		
802.11n (HT20) Spot-Check	5300	MIMO	*15.96494	33.62	PK-U	40.60	-19.00	0.00	55.22	-	-	74.00	-18.78	-	-	0	100	H	
			*15.96344	33.87	PK-U	40.60	-19.30	0.00	55.17	-	-	74.00	-18.83	-	-	0	100	V	
			7.955	36.04	PK-U	36.00	-23.10	0.00	48.94	-	-	-	-	68.20	-19.26	0	100	H	
			7.952	35.78	PK-U	36.00	-23.20	0.00	48.58	-	-	-	-	68.20	-19.62	0	100	V	
			*10.6097	32.65	PK-U	37.90	-19.00	0.00	51.55	-	-	74.00	-22.45	-	-	0	100	H	
802.11ax (HE20) DRU	5320	MIMO	*10.60371	33.39	PK-U	37.90	-18.90	0.00	52.39	-	-	74.00	-21.61	-	-	0	100	V	
			*15.89788	33.78	PK-U	40.50	-18.90	0.00	55.38	-	-	74.00	-18.62	-	-	0	100	H	
			*15.90024	33.96	PK-U	40.50	-19.00	0.00	55.46	-	-	74.00	-18.54	-	-	0	100	V	
			7.976	35.82	PK-U	36.30	-23.90	0.00	48.22	-	-	-	-	68.20	-19.98	360	100	H	
			7.988	36.29	PK-U	36.30	-23.80	0.00	48.79	-	-	-	-	68.20	-19.41	360	100	V	
			*10.64523	33.49	PK-U	38.30	-21.00	0.00	50.79	-	-	74.00	-23.21	-	-	360	100	H	
			*10.64074	33.16	PK-U	38.30	-21.10	0.00	50.36	-	-	74.00	-23.64	-	-	360	100	V	
*15.9664	34.39	PK-U	40.90	-20.50	0.00	54.79	-	-	74.00	-19.21	-	-	360	100	H				
*15.96436	34.50	PK-U	40.90	-20.50	0.00	54.90	-	-	74.00	-19.10	-	-	360	100	V				

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.3. TX ABOVE 1GHz 2Tx MODE IN THE 5.5 GHz BAND

BANDEDGE (WORST CASE: 802.11n HT40 / 5510 MHz)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT(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	* 5.45999	39.42	Pk	34.6	-17.7	0	56.32	-	-	74	-17.68	111	115	H
2	* 5.45833	43.12	Pk	34.6	-17.7	0	60.02	-	-	74	-13.98	111	115	H
3	5.46998	46	Pk	34.6	-17.7	0	62.9	-	-	68.2	-5.3	111	115	H
4	5.46896	47.76	Pk	34.6	-17.7	0	64.66	-	-	68.2	-3.54	111	115	H
5	* 5.45999	29.15	RMS	34.6	-17.7	0	46.05	54	-7.95	-	-	111	115	H
6	* 5.45957	29.6	RMS	34.6	-17.6	0	46.6	54	-7.4	-	-	111	115	H
7	5.46998	34.56	RMS	34.6	-17.7	0	51.46	-	-	-	-	111	115	H
8	5.46883	34.99	RMS	34.6	-17.7	0	51.89	-	-	-	-	111	115	H

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

BANDEDGE TEST DATA

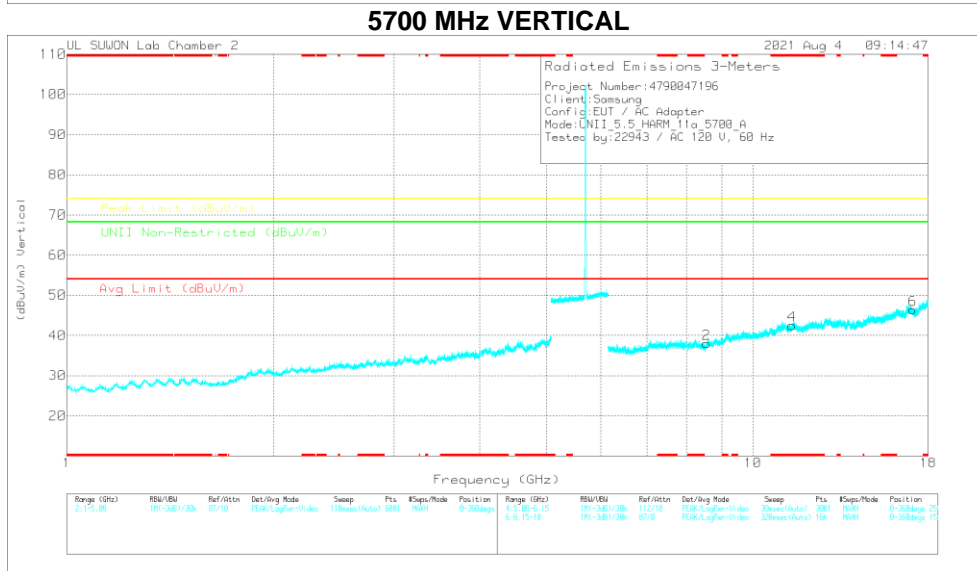
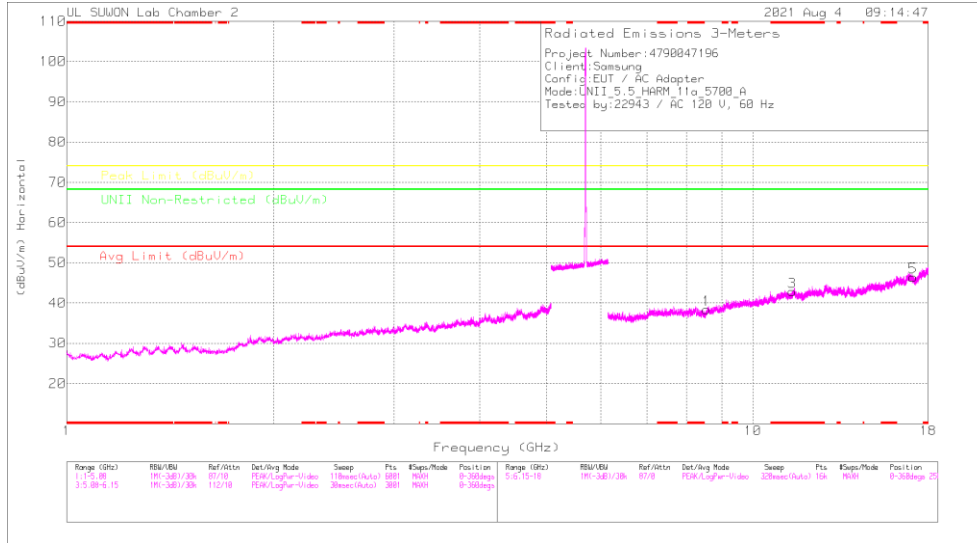
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11a	5500	MIMO	* 5.45999	37.03	Pk	34.60	-17.70	0.00	53.93	-	-	74.00	-20.07	109	267	H		
			* 5.39762	40.15	Pk	34.50	-17.70	0.00	56.95	-	-	74.00	-17.05	109	267	H		
			5.46998	37.16	Pk	34.60	-17.70	0.00	54.06	-	-	68.20	-14.14	109	267	H		
			5.46957	39.88	Pk	34.60	-17.70	0.00	56.78	-	-	68.20	-11.42	109	267	H		
			* 5.45999	26.67	RMS	34.60	-17.70	0.00	43.57	54.00	-10.43	-	-	-	-	109	267	H
			* 5.42195	27.78	RMS	34.60	-17.70	0.00	44.68	54.00	-9.32	-	-	-	-	109	267	H
			5.46998	27.68	RMS	34.60	-17.70	0.00	44.58	-	-	-	-	-	-	109	267	H
			5.46931	27.91	RMS	34.60	-17.70	0.00	44.81	-	-	-	-	-	-	109	267	H
			* 5.45999	36.26	Pk	34.60	-17.70	0.00	53.16	-	-	74.00	-20.84	93	107	V		
			* 5.39782	40.31	Pk	34.50	-17.70	0.00	57.11	-	-	74.00	-16.89	93	107	V		
			5.46998	36.92	Pk	34.60	-17.70	0.00	53.82	-	-	68.20	-14.38	93	107	V		
			5.46167	39.65	Pk	34.60	-17.80	0.00	56.45	-	-	68.20	-11.75	93	107	V		
	* 5.45999	26.86	RMS	34.60	-17.70	0.00	43.76	54.00	-10.24	-	-	-	-	93	107	V		
	* 5.41565	27.85	RMS	34.60	-17.70	0.00	44.75	54.00	-9.25	-	-	-	-	93	107	V		
	5.46998	27.59	RMS	34.60	-17.70	0.00	44.49	-	-	-	-	-	-	93	107	V		
	5.46909	27.71	RMS	34.60	-17.70	0.00	44.61	-	-	-	-	-	-	93	107	V		
	5.72502	36.66	Pk	34.70	-17.10	0.00	54.26	-	-	68.20	-13.94	113	110	H				
	5.79630	39.48	Pk	34.80	-16.90	0.00	57.38	-	-	68.20	-10.82	113	110	H				
	5.72502	38.34	Pk	34.70	-17.10	0.00	55.94	-	-	68.20	-12.26	88	101	V				
	5.82367	39.84	Pk	34.90	-17.00	0.00	57.74	-	-	68.20	-10.46	88	101	V				
	802.11n (HT20)	5500	MIMO	* 5.45999	38.96	Pk	34.60	-17.70	0.00	55.86	-	-	74.00	-18.14	111	35	H	
				* 5.45487	40.74	Pk	34.60	-17.70	0.00	57.64	-	-	74.00	-16.36	111	35	H	
				5.46998	36.11	Pk	34.60	-17.70	0.00	53.01	-	-	68.20	-15.19	111	35	H	
				5.46974	40.13	Pk	34.60	-17.70	0.00	57.03	-	-	68.20	-11.17	111	35	H	
* 5.45999				27.39	RMS	34.60	-17.70	0.00	44.29	54.00	-9.71	-	-	-	111	35	H	
* 5.4298				27.80	RMS	34.60	-17.70	0.00	44.70	54.00	-9.30	-	-	-	111	35	H	
5.46998				27.59	RMS	34.60	-17.70	0.00	44.49	-	-	-	-	-	111	35	H	
5.46570				27.90	RMS	34.60	-17.70	0.00	44.80	-	-	-	-	-	111	35	H	
* 5.45999				35.86	Pk	34.60	-17.70	0.00	52.76	-	-	74.00	-21.24	88	101	V		
* 5.40729				39.41	Pk	34.60	-17.80	0.00	56.21	-	-	74.00	-17.79	88	101	V		
5.46998				35.34	Pk	34.60	-17.70	0.00	52.24	-	-	68.20	-15.96	88	101	V		
5.46576				39.49	Pk	34.60	-17.70	0.00	56.39	-	-	68.20	-11.81	88	101	V		
* 5.45999		26.97	RMS	34.60	-17.70	0.00	43.87	54.00	-10.13	-	-	-	88	101	V			
* 5.45275		27.86	RMS	34.60	-17.70	0.00	44.76	54.00	-9.24	-	-	-	88	101	V			
5.46998		27.18	RMS	34.60	-17.70	0.00	44.08	-	-	-	-	-	88	101	V			
5.46572		27.75	RMS	34.60	-17.70	0.00	44.65	-	-	-	-	-	88	101	V			
5.72502		37.27	Pk	34.70	-17.10	0.00	54.87	-	-	68.20	-13.33	111	126	H				
5.72694		40.46	Pk	34.70	-17.10	0.00	58.06	-	-	68.20	-10.14	111	126	H				
5.72502		37.87	Pk	34.70	-17.10	0.00	55.47	-	-	68.20	-12.73	89	101	V				
5.72633		39.75	Pk	34.70	-17.10	0.00	57.35	-	-	68.20	-10.85	89	101	V				
802.11n (HT40)		5510	MIMO	* 5.45999	39.42	Pk	34.60	-17.70	0.00	56.32	-	-	74.00	-17.68	111	115	H	
				* 5.45833	43.12	Pk	34.60	-17.70	0.00	60.02	-	-	74.00	-13.98	111	115	H	
				5.46998	46.00	Pk	34.60	-17.70	0.00	62.90	-	-	68.20	-5.30	111	115	H	
				5.46896	47.76	Pk	34.60	-17.70	0.00	64.66	-	-	68.20	-3.54	111	115	H	
	* 5.45999			29.15	RMS	34.60	-17.70	0.00	46.05	54.00	-7.95	-	-	-	111	115	H	
	* 5.45957			29.60	RMS	34.60	-17.60	0.00	46.60	54.00	-7.40	-	-	-	111	115	H	
	5.46998			34.56	RMS	34.60	-17.70	0.00	51.46	-	-	-	-	-	111	115	H	
	5.46883			34.99	RMS	34.60	-17.70	0.00	51.89	-	-	-	-	-	111	115	H	
	* 5.45999			37.04	Pk	34.60	-17.70	0.00	53.94	-	-	74.00	-20.06	86	111	V		
	* 5.39762			48.34	Pk	34.50	-17.70	0.00	65.14	-	-	74.00	-8.86	86	111	V		
	5.46998			43.06	Pk	34.60	-17.70	0.00	59.96	-	-	68.20	-8.24	86	111	V		
	5.46865			46.13	Pk	34.60	-17.70	0.00	63.03	-	-	68.20	-5.17	86	111	V		
	* 5.45999	28.70	RMS	34.60	-17.70	0.00	45.60	54.00	-8.40	-	-	-	86	111	V			
	* 5.45922	28.92	RMS	34.60	-17.60	0.00	45.92	54.00	-8.08	-	-	-	86	111	V			
	5.46998	33.14	RMS	34.60	-17.70	0.00	50.04	-	-	-	-	-	86	111	V			
	5.46893	34.11	RMS	34.60	-17.70	0.00	51.01	-	-	-	-	-	86	111	V			
	5.72502	37.88	Pk	34.70	-17.10	0.00	55.48	-	-	68.20	-12.72	114	129	H				
	5.77253	39.74	Pk	34.80	-17.00	0.00	57.54	-	-	68.20	-10.66	114	129	H				
	5.72502	37.26	Pk	34.70	-17.10	0.00	54.86	-	-	68.20	-13.34	82	111	V				
	5.72686	40.89	Pk	34.70	-17.10	0.00	58.49	-	-	68.20	-9.71	82	111	V				
	802.11ac (VHT80)	5530	MIMO	* 5.45999	37.07	Pk	34.60	-17.70	0.00	53.97	-	-	74.00	-20.03	115	185	H	
				* 5.4597	39.91	Pk	34.60	-17.60	0.00	56.91	-	-	74.00	-17.09	115	185	H	
				5.46998	37.13	Pk	34.60	-17.70	0.00	54.03	-	-	68.20	-14.17	115	185	H	
				5.46279	41.27	Pk	34.60	-17.70	0.00	58.17	-	-	68.20	-10.03	115	185	H	
* 5.45999				28.38	RMS	34.60	-17.70	0.00	45.28	54.00	-8.72	-	-	-	115	185	H	
* 5.45819				28.87	RMS	34.60	-17.70	0.00	45.77	54.00	-8.23	-	-	-	115	185	H	
5.46998				29.54	RMS	34.60	-17.70	0.00	46.44	-	-	-	-	-	115	185	H	
5.46813				29.47	RMS	34.60	-17.70	0.00	46.37	-	-	-	-	-	115	185	H	
* 5.45999				39.52	Pk	34.60	-17.70	0.00	56.42	-	-	74.00	-17.58	94	100	V		
* 5.45539				40.99	Pk	34.60	-17.70	0.00	57.89	-	-	74.00	-16.11	94	100	V		
5.46998				38.72	Pk	34.60	-17.70	0.00	55.62	-	-	68.20	-12.58	94	100	V		
5.46648				40.76	Pk	34.60	-17.70	0.00	57.66	-	-	68.20	-10.54	94	100	V		
* 5.45999		28.34	RMS	34.60	-17.70	0.00	45.24	54.00	-8.76	-	-	-	94	100	V			
* 5.45913		28.55	RMS	34.60	-17.60	0.00	45.55	54.00	-8.45	-	-	-	94	100	V			
5.46998		29.16	RMS	34.60	-17.70	0.00	46.06	-	-	-	-	-	94	100	V			
5.46815		29.35	RMS	34.60	-17.70	0.00	46.25	-	-	-	-	-	94	100	V			
5.72502		36.64	Pk	34.70	-17.10	0.00	54.24	-	-	68.20	-13.96	112	241	H				
5.78644		40.65	Pk	34.80	-17.00	0.00	58.45	-	-	68.20	-9.75	112	241	H				
5.72502		35.96	Pk	34.70	-17.10	0.00	53.56	-	-	68.20	-14.64	84	109	V				
5.77694		40.12	Pk	34.80	-17.00	0.00	57.92	-	-	68.20	-10.28	84	109	V				

802.11ax (HE80) SU	5530	MIMO	* 5.45998	38.81	Pk	35.30	-20.30	0.00	53.81	-	-	74.00	-20.19	121	112	H
			* 5.46652	40.94	Pk	35.30	-20.20	0.00	56.04	-	-	74.00	-17.96	121	112	H
			5.46998	39.25	Pk	35.30	-20.20	0.00	54.35	-	-	68.20	-13.85	121	112	H
			5.46619	41.75	Pk	35.30	-20.30	0.00	56.75	-	-	68.20	-11.45	121	112	H
			* 5.45998	29.45	RMS	35.30	-20.30	0.00	44.45	54.00	-9.55	-	-	121	112	H
			* 5.45762	29.71	RMS	35.30	-20.30	0.00	44.71	54.00	-9.29	-	-	121	112	H
			5.46998	29.13	RMS	35.30	-20.20	0.00	44.23	-	-	-	-	121	112	H
			5.46711	30.63	RMS	35.30	-20.20	0.00	45.73	-	-	-	-	121	112	H
			* 5.45998	38.62	Pk	35.30	-20.30	0.00	53.62	-	-	74.00	-20.38	108	105	V
			* 5.45703	40.90	Pk	35.30	-20.30	0.00	55.90	-	-	74.00	-18.10	108	105	V
			5.46998	39.05	Pk	35.30	-20.20	0.00	54.15	-	-	68.20	-14.05	108	105	V
			5.46650	41.12	Pk	35.30	-20.30	0.00	56.12	-	-	68.20	-12.08	108	105	V
			* 5.45998	28.47	RMS	35.30	-20.30	0.00	43.47	54.00	-10.53	-	-	108	105	V
			* 5.45803	29.43	RMS	35.30	-20.30	0.00	44.43	54.00	-9.57	-	-	108	105	V
			5.46998	28.89	RMS	35.30	-20.20	0.00	43.99	-	-	-	-	108	105	V
			5.46893	30.26	RMS	35.30	-20.30	0.00	45.26	-	-	-	-	108	105	V
	5.72500	39.16	Pk	35.70	-19.70	0.00	55.16	-	-	68.20	-13.04	116	100	H		
	5.72689	41.14	Pk	35.70	-19.60	0.00	57.24	-	-	68.20	-10.96	116	100	H		
	5.72500	38.53	Pk	35.70	-19.70	0.00	54.53	-	-	68.20	-13.67	95	123	V		
	5.76870	40.07	Pk	35.70	-19.50	0.00	56.27	-	-	68.20	-11.93	95	123	V		

Note1. Pk - Peak detector, RMS - RMS detector

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11a / 5700 MHz)
5700 MHz HORIZONTAL



Note. Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5700 MHz DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	317.00160724	@GHz_HF@dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitud (Degs)	Height (cm)	Polarity
8.55389	34.2	PK-U	36.1	-21.6	0	48.7	-	-	-	-	68.2	-19.5	0	100	H
8.54638	34.41	PK-U	36	-21.7	0	48.71	-	-	-	-	68.2	-19.49	0	100	V
*11.38961	33.79	PK-U	35.3	-19.4	0	52.69	-	-	74	-21.31	-	-	0	100	H
*11.39502	33.73	PK-U	38.3	-19.5	0	52.53	-	-	74	-21.47	-	-	0	100	V
17.102	34.6	PK-U	41	-18.2	0	57.5	-	-	-	-	68.2	-10.7	0	100	H
17.09964	33.7	PK-U	41	-18.3	0	56.4	-	-	-	-	68.2	-11.8	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity			
802.11a	5500	MIMO	* 8.25172	35.41	PK-U	35.90	-22.20	0.00	49.11	-	-	74.00	-24.89	-	-	0	100	H			
			* 8.25353	34.91	PK-U	35.90	-22.20	0.00	48.61	-	-	74.00	-25.39	-	-	0	100	V			
			** 11.00291	33.47	PK-U	38.20	-19.80	0.00	51.87	-	-	74.00	-22.13	-	-	0	100	H			
			** 11.00314	33.61	PK-U	38.20	-19.80	0.00	52.01	-	-	74.00	-21.99	-	-	0	100	V			
			16.500	34.59	PK-U	40.80	-19.50	0.00	55.89	-	-	-	-	-	-	68.20	-12.31	0	100	H	
			16.498	34.03	PK-U	40.80	-19.50	0.00	55.33	-	-	-	-	-	-	68.20	-12.87	0	100	V	
	5580	MIMO	* 8.36946	35.03	PK-U	36.00	-23.00	0.00	48.03	-	-	74.00	-25.97	-	-	0	100	H			
			* 8.37122	35.75	PK-U	36.00	-22.80	0.00	48.95	-	-	74.00	-25.05	-	-	0	100	V			
			** 11.15926	33.34	PK-U	38.30	-19.00	0.00	52.64	-	-	74.00	-21.36	-	-	0	100	H			
			** 11.15851	33.17	PK-U	38.30	-19.00	0.00	52.47	-	-	74.00	-21.53	-	-	0	100	V			
			16.738	33.93	PK-U	41.10	-18.80	0.00	56.23	-	-	-	-	-	-	68.20	-11.97	0	100	H	
			16.741	34.60	PK-U	41.10	-18.80	0.00	56.90	-	-	-	-	-	-	68.20	-11.30	0	100	V	
	5700	MIMO	8.554	34.20	PK-U	36.10	-21.60	0.00	48.70	-	-	-	-	-	68.20	-19.50	0	100	H		
			8.546	34.41	PK-U	36.00	-21.70	0.00	48.71	-	-	-	-	-	68.20	-19.49	0	100	V		
			** 11.39961	33.79	PK-U	38.30	-19.40	0.00	52.69	-	-	74.00	-21.31	-	-	0	100	H			
			** 11.39502	33.73	PK-U	38.30	-19.50	0.00	52.53	-	-	74.00	-21.47	-	-	0	100	V			
			17.102	34.60	PK-U	41.00	-18.20	0.00	57.50	-	-	-	-	-	-	68.20	-10.70	0	100	H	
			17.100	33.70	PK-U	41.00	-18.30	0.00	56.40	-	-	-	-	-	-	68.20	-11.80	0	100	V	
	5720	MIMO	8.580	33.73	PK-U	36.10	-21.40	0.00	48.43	-	-	-	-	-	68.20	-19.77	0	100	H		
			8.581	33.87	PK-U	36.10	-21.50	0.00	48.47	-	-	-	-	-	68.20	-19.73	0	100	V		
			* 11.4389	34.03	PK-U	38.30	-19.30	0.00	53.03	-	-	74.00	-20.97	-	-	0	100	H			
			** 11.43937	33.53	PK-U	38.30	-19.30	0.00	52.53	-	-	74.00	-21.47	-	-	0	100	V			
			17.158	33.67	PK-U	40.90	-18.10	0.00	56.47	-	-	-	-	-	-	68.20	-11.73	0	100	H	
			17.158	33.49	PK-U	40.90	-18.10	0.00	56.29	-	-	-	-	-	-	68.20	-11.91	0	100	V	
	802.11n (HT40) Spot-Check	5670	MIMO	8.508	35.25	PK-U	36.00	-22.50	0.00	48.75	-	-	-	-	-	68.20	-19.45	360	100	H	
				8.512	35.15	PK-U	36.00	-22.60	0.00	48.55	-	-	-	-	-	68.20	-19.65	360	100	V	
				** 11.33527	34.21	PK-U	38.30	-19.60	0.00	52.91	-	-	74.00	-21.09	-	-	360	100	H		
				** 11.34425	33.84	PK-U	38.30	-19.50	0.00	52.64	-	-	74.00	-21.36	-	-	360	100	V		
				17.012	34.44	PK-U	41.10	-18.10	0.00	57.44	-	-	-	-	-	-	68.20	-10.76	360	100	H
				17.007	34.09	PK-U	41.10	-18.10	0.00	57.09	-	-	-	-	-	-	68.20	-11.11	360	100	V
	802.11ax (HE20) oRU	5580	MIMO	* 8.36006	35.60	PK-U	36.20	-23.10	0.00	48.70	-	-	74.00	-25.30	-	-	360	100	H		
				* 8.37378	35.82	PK-U	36.20	-23.20	0.00	48.82	-	-	74.00	-25.18	-	-	360	100	V		
				** 11.15989	34.20	PK-U	38.60	-21.40	0.00	51.40	-	-	74.00	-22.60	-	-	360	100	H		
				** 11.15917	34.58	PK-U	38.60	-21.40	0.00	51.78	-	-	74.00	-22.22	-	-	360	100	V		
				16.747	32.42	PK-U	42.30	-18.80	0.00	55.92	-	-	-	-	-	-	68.20	-12.28	360	100	H
				16.742	32.54	PK-U	42.30	-18.80	0.00	56.04	-	-	-	-	-	-	68.20	-12.16	360	100	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band