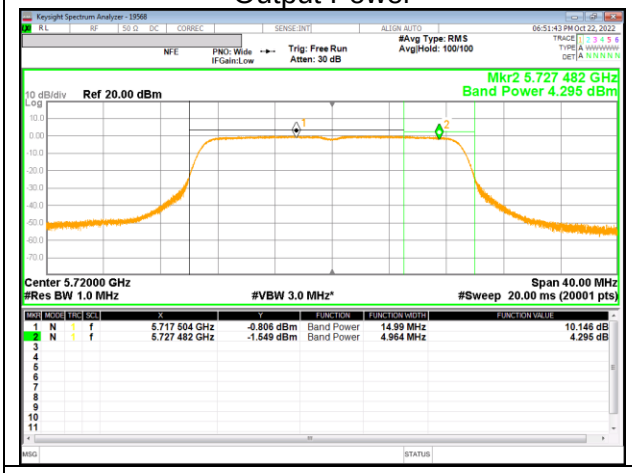
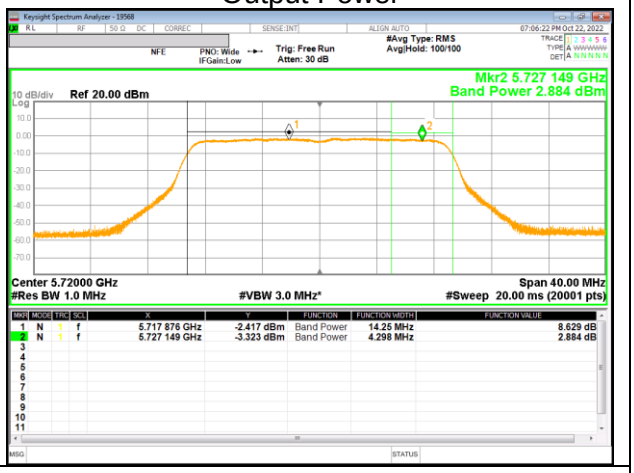
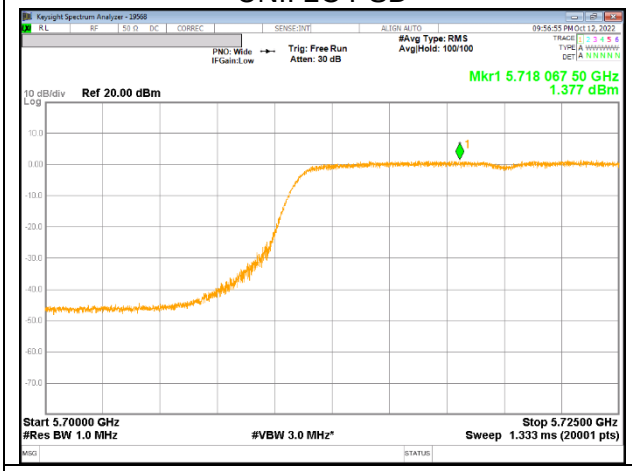
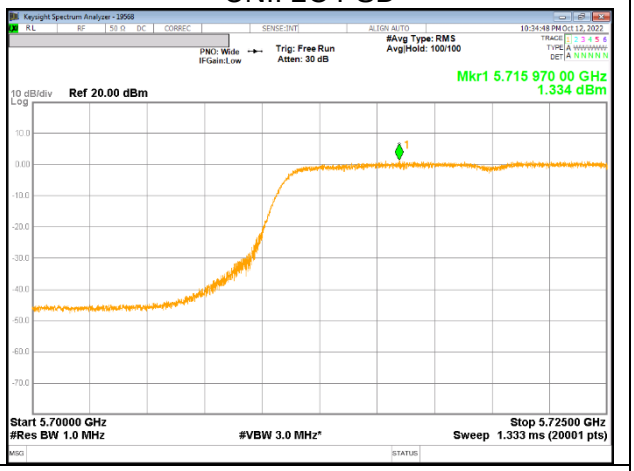
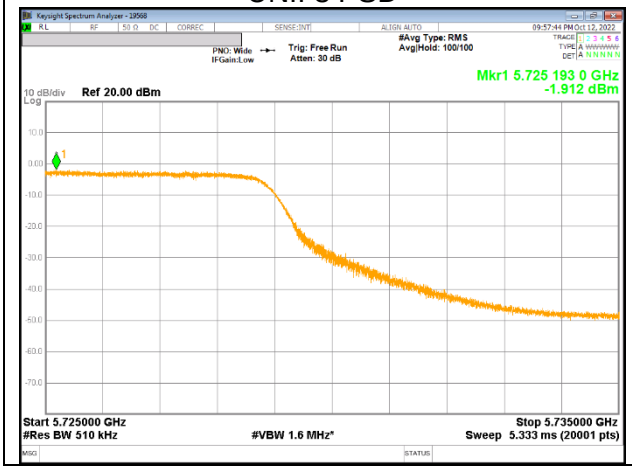
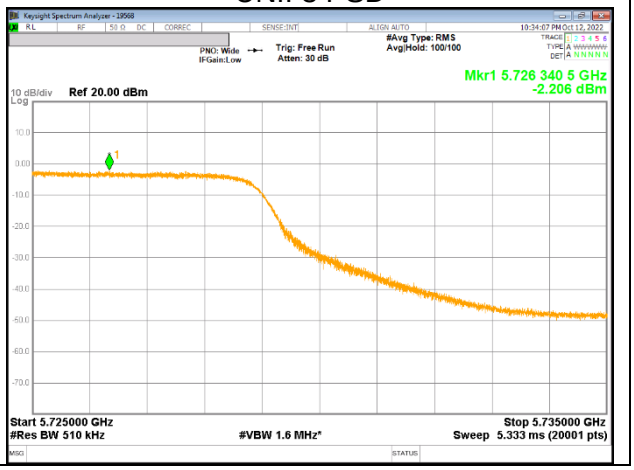
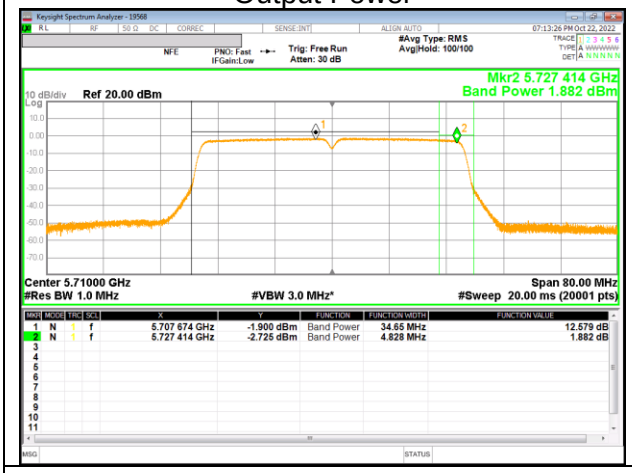
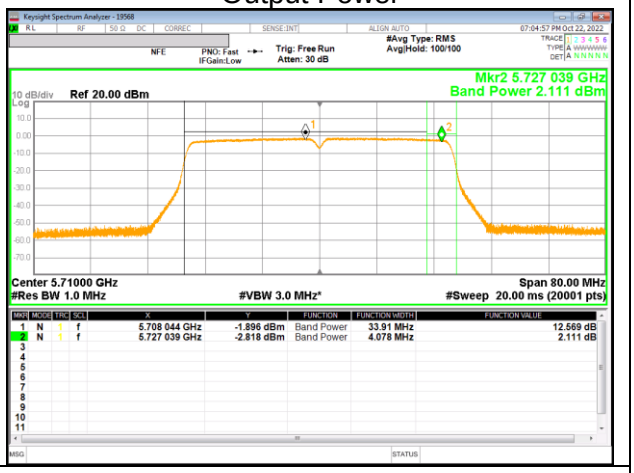
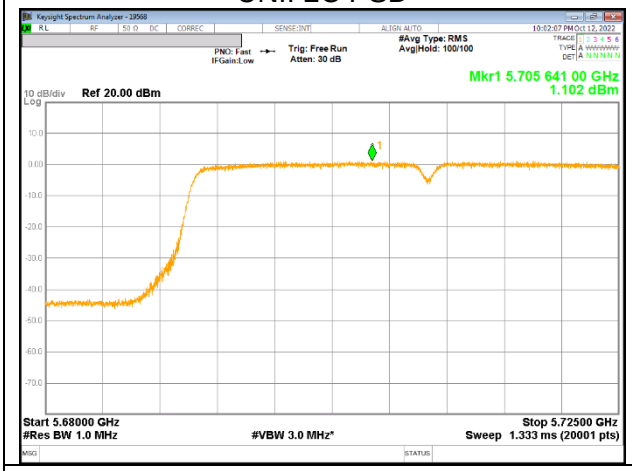
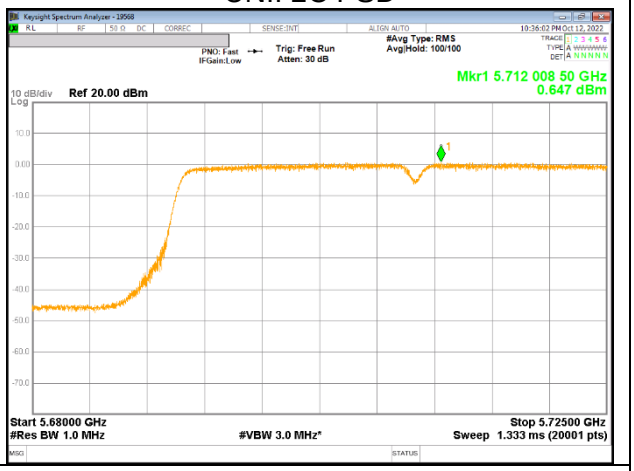
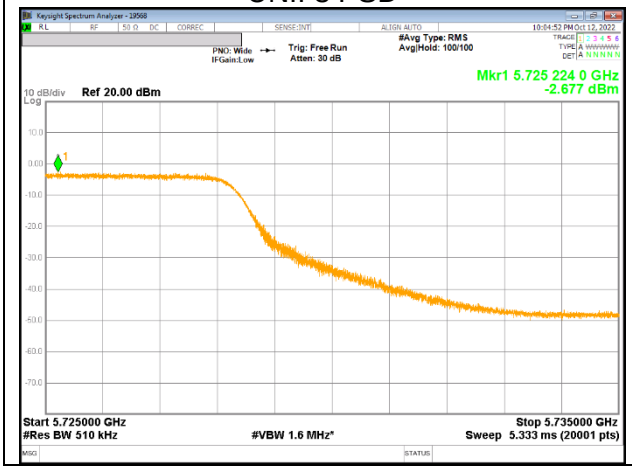
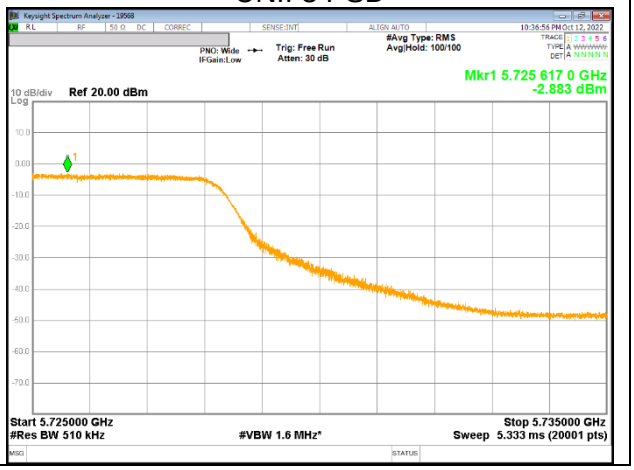
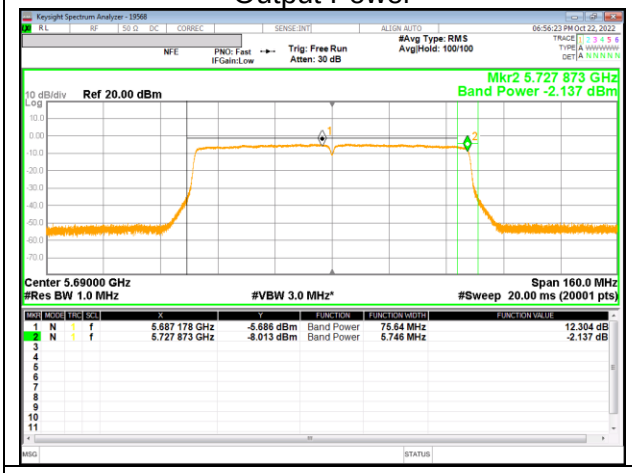
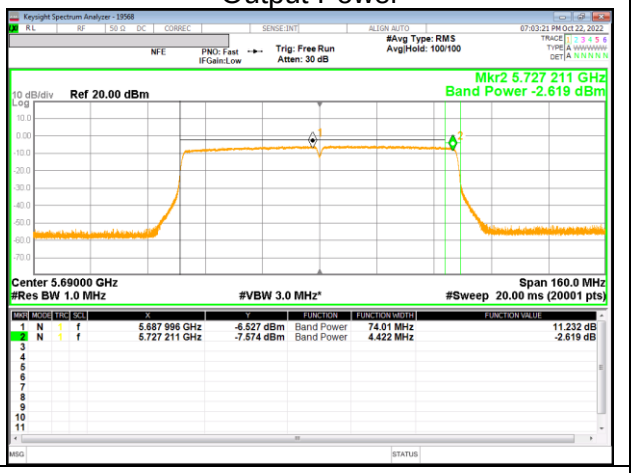
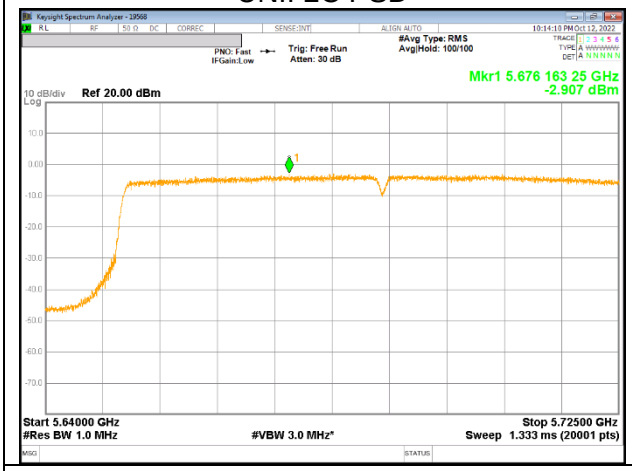
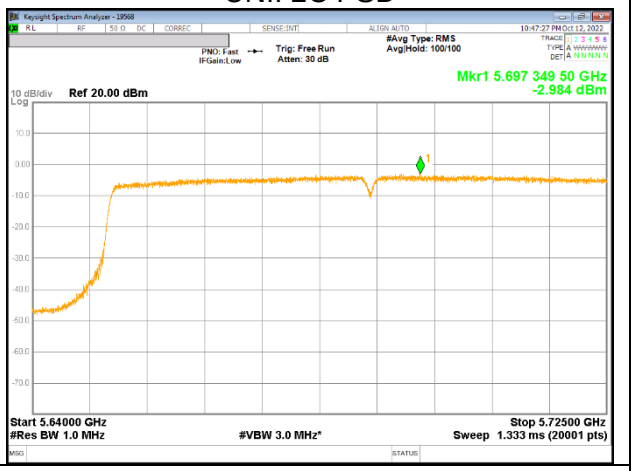
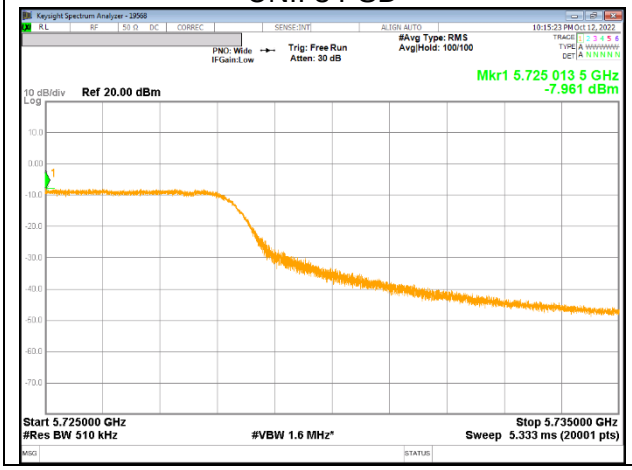
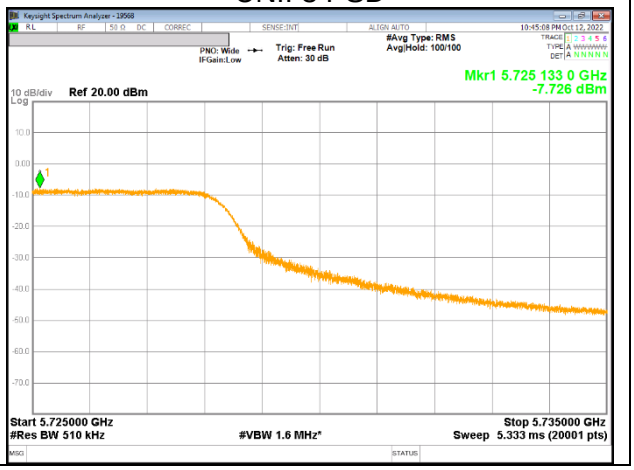
UNII Straddle Ch. IEEE 802.11n HT20 mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

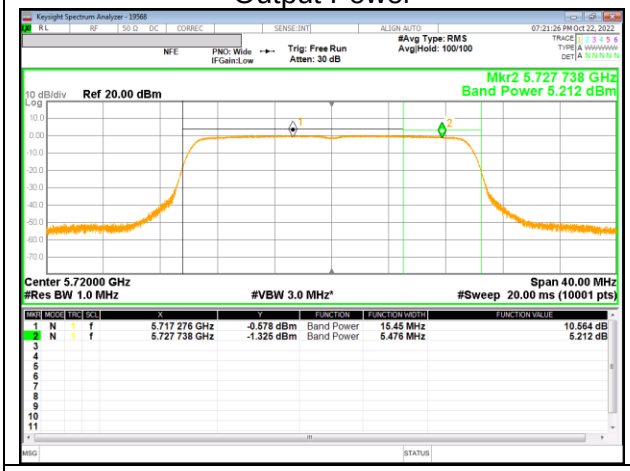
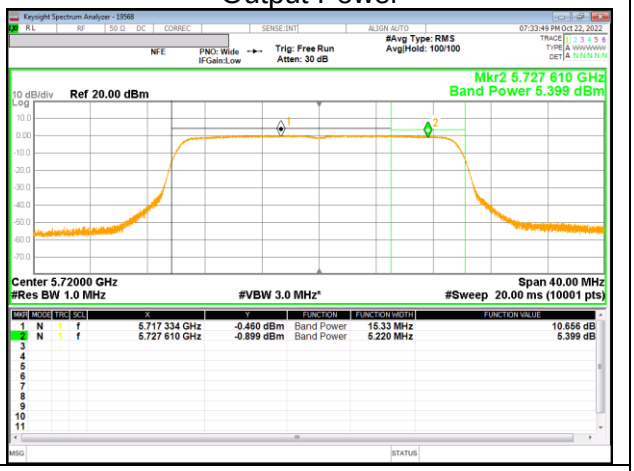
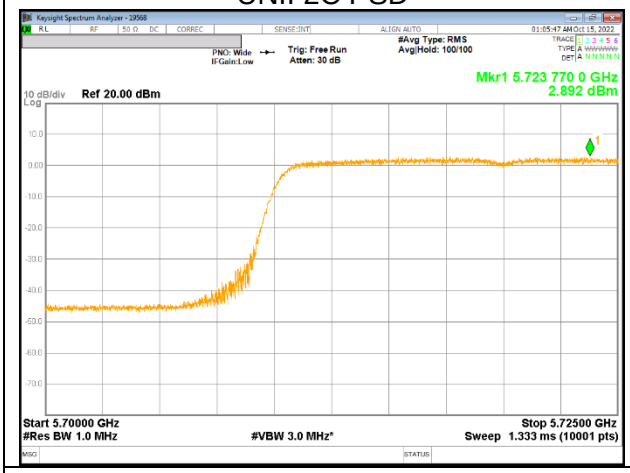
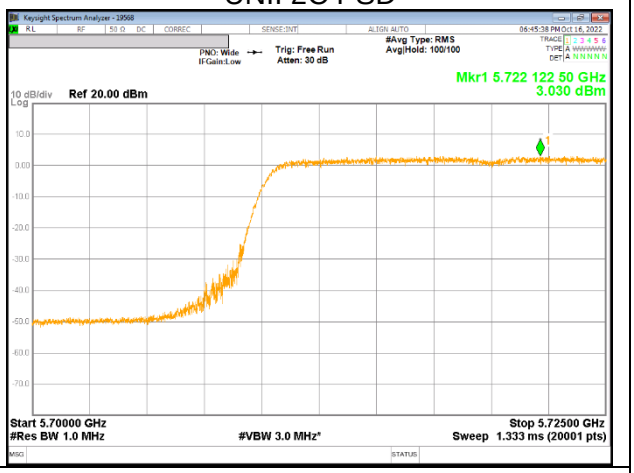
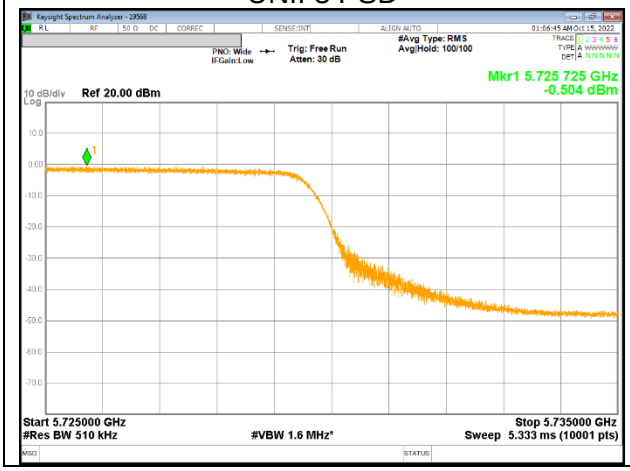
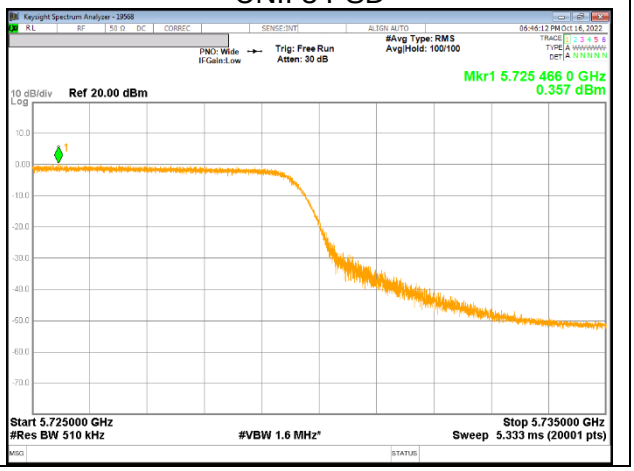
UNII Straddle Ch. IEEE 802.11n HT40 mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

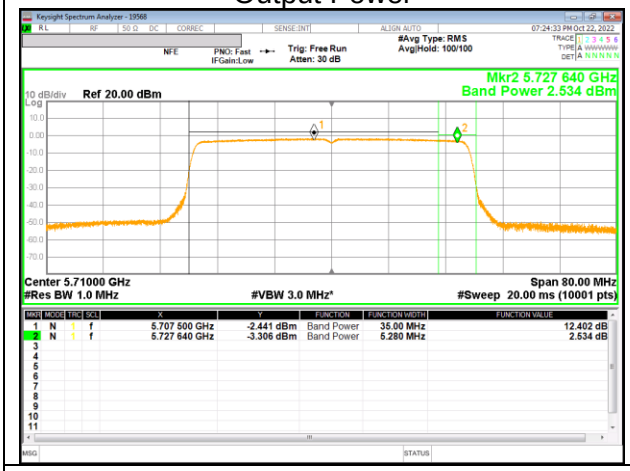
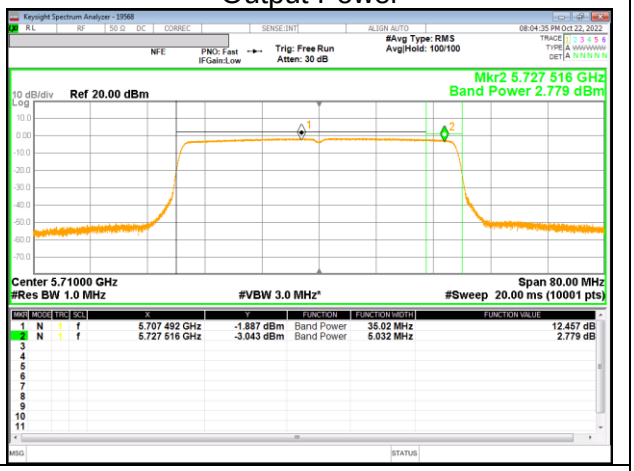
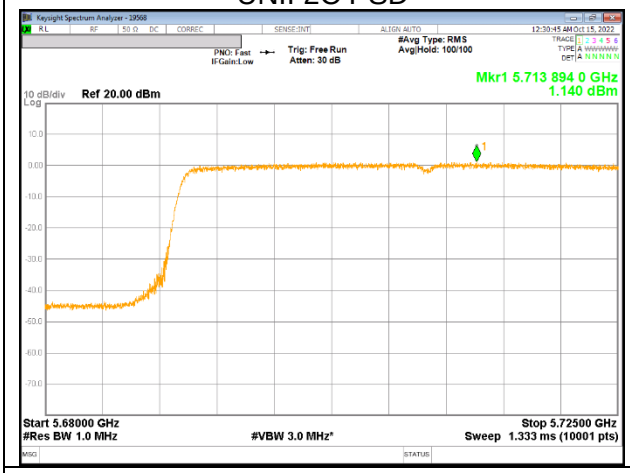
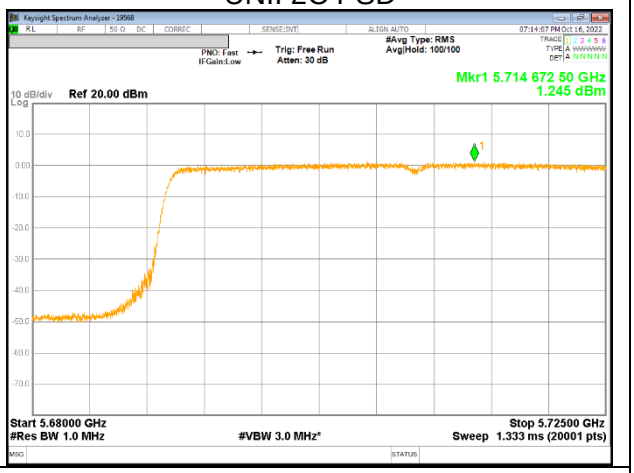
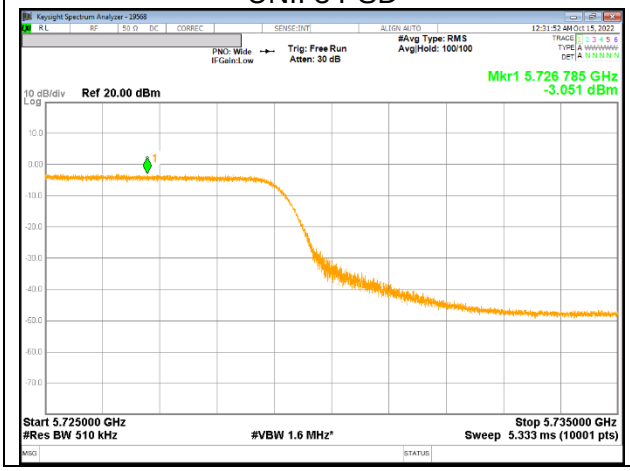
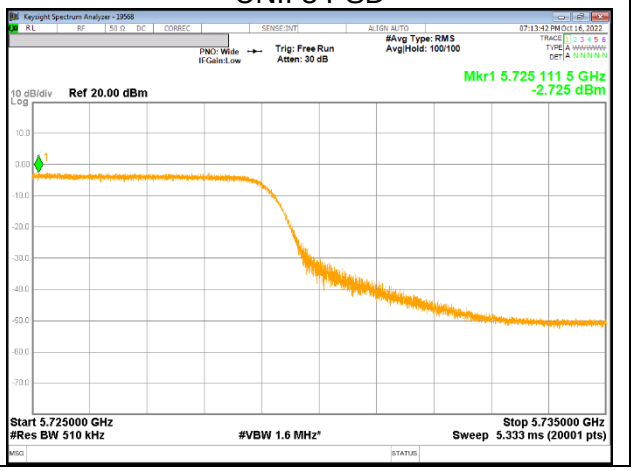
UNII Straddle Ch. IEEE 802.11ac VHT80 mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

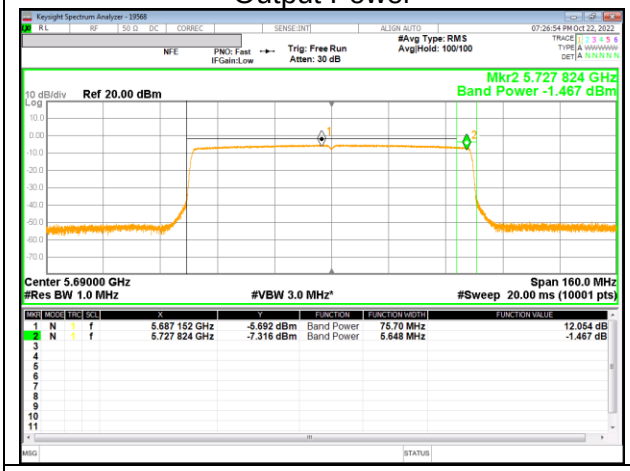
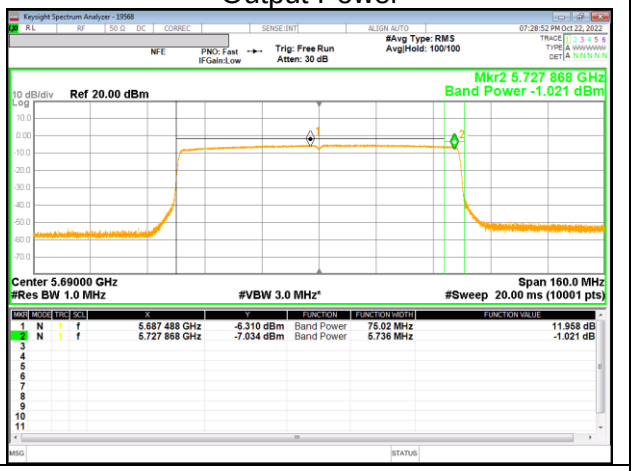
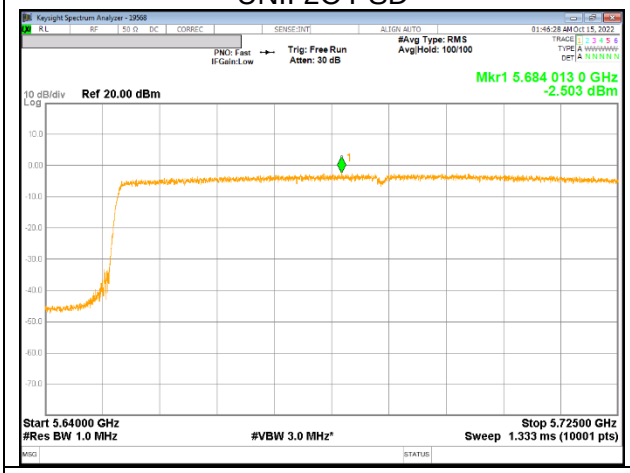
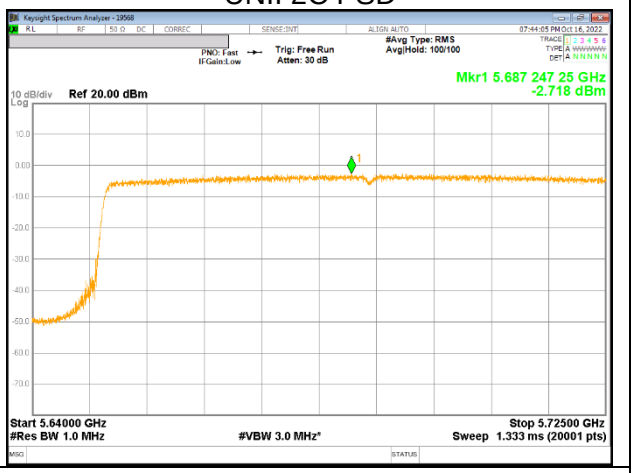
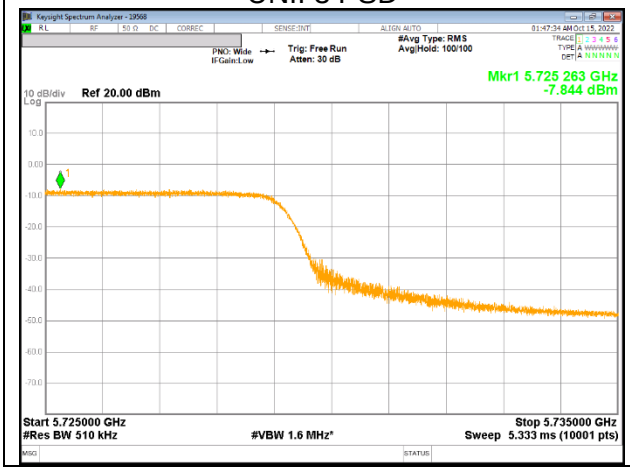
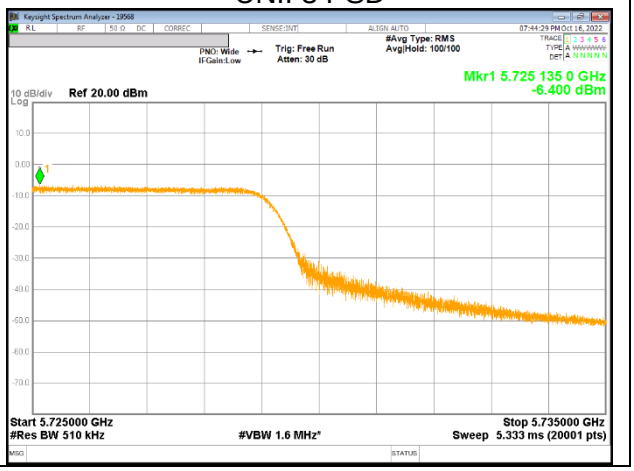
UNII Straddle Ch. IEEE 802.11ax HE20(SU) mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

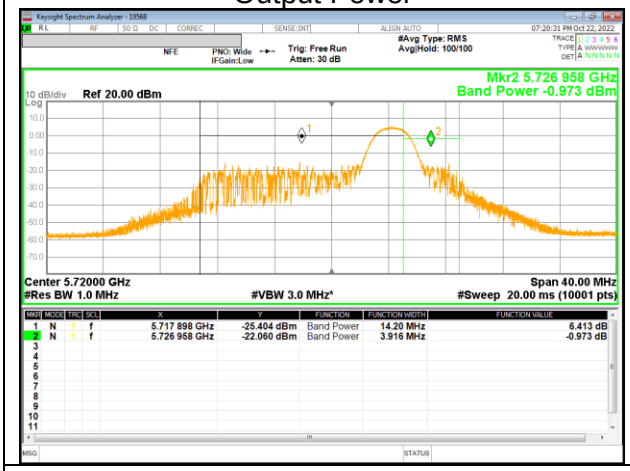
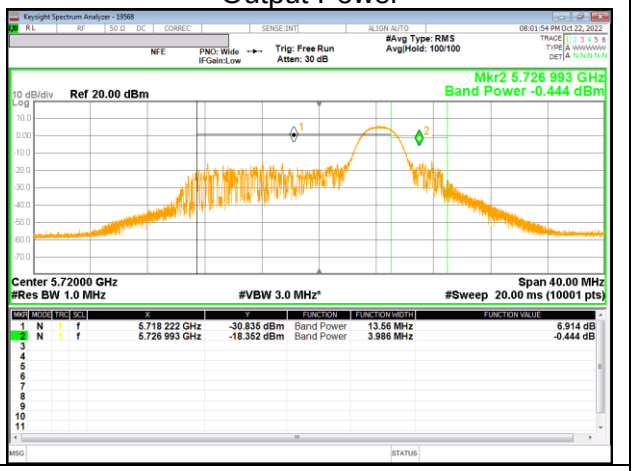
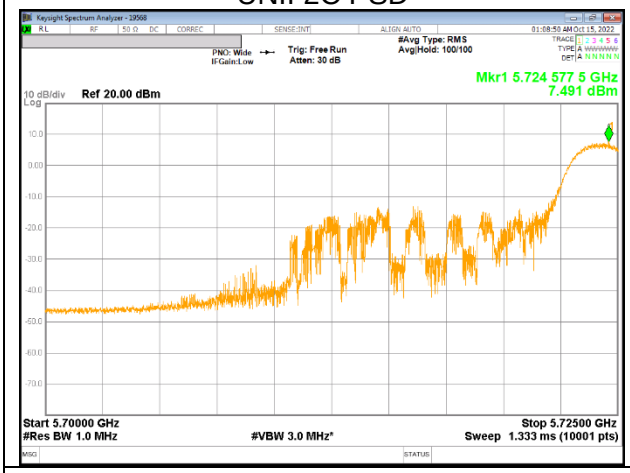
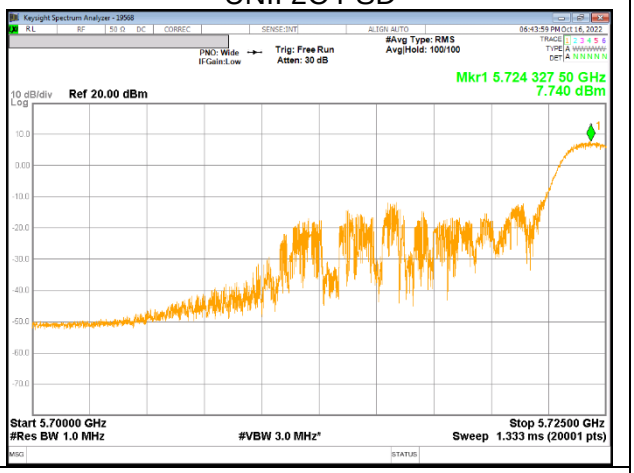
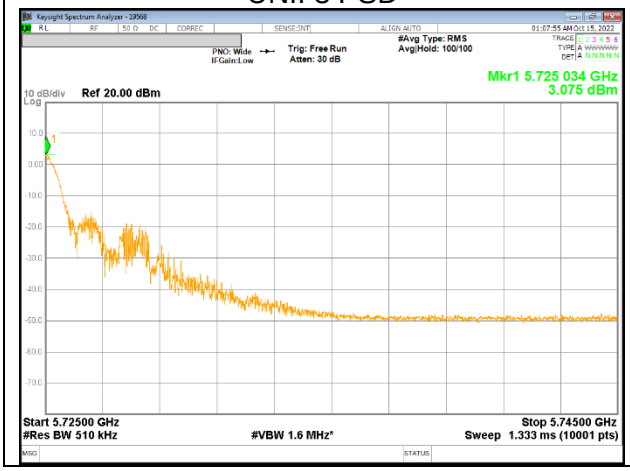
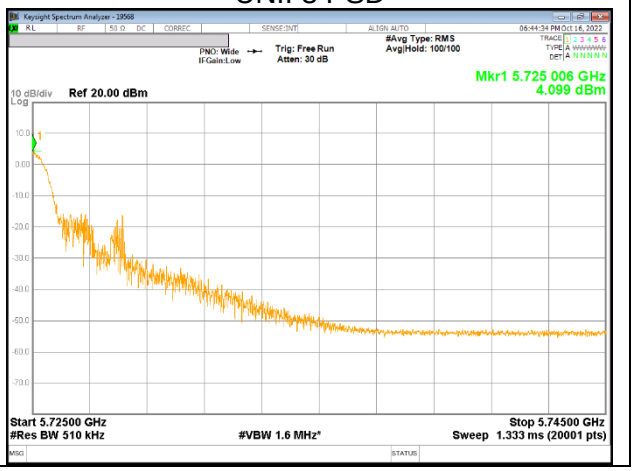
UNII Straddle Ch. IEEE 802.11ax HE40(SU) mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

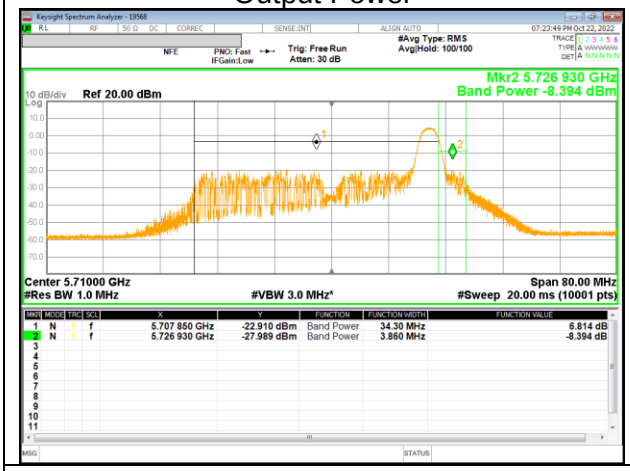
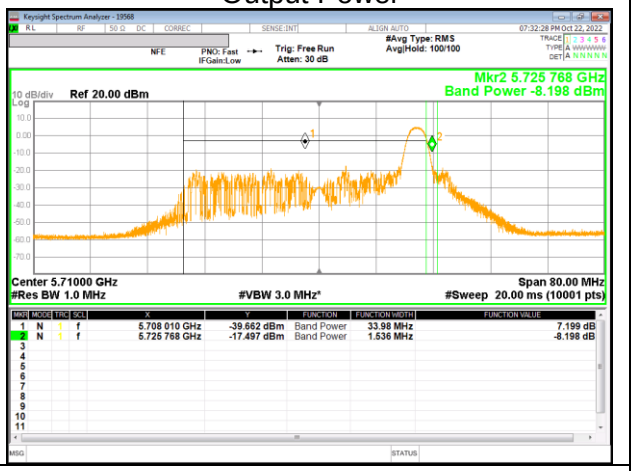
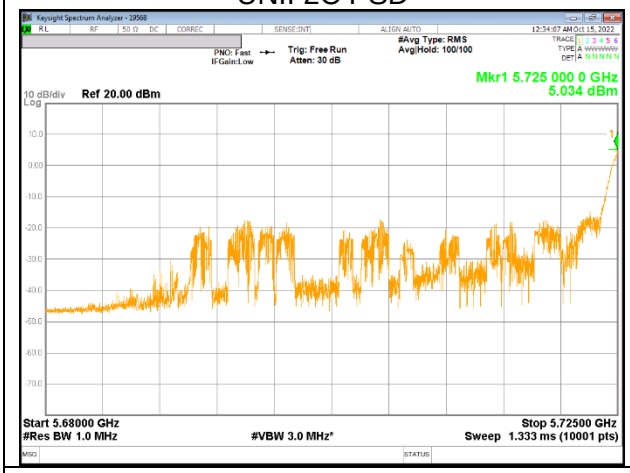
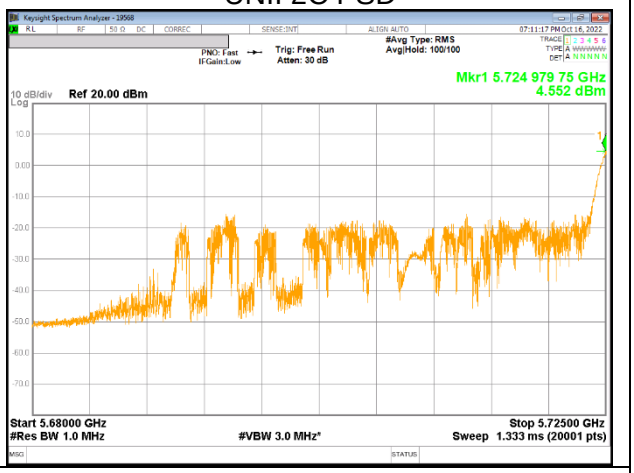
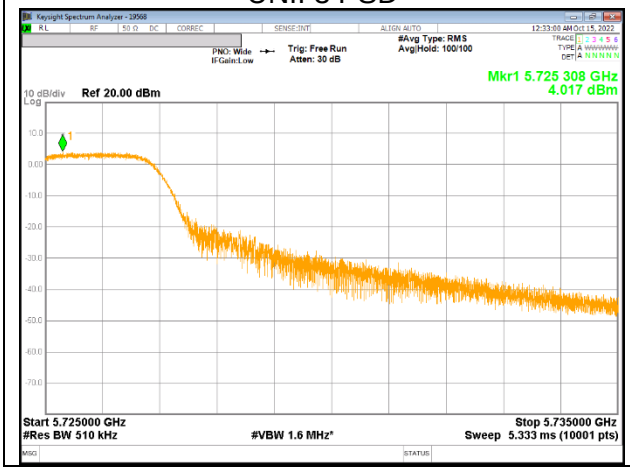
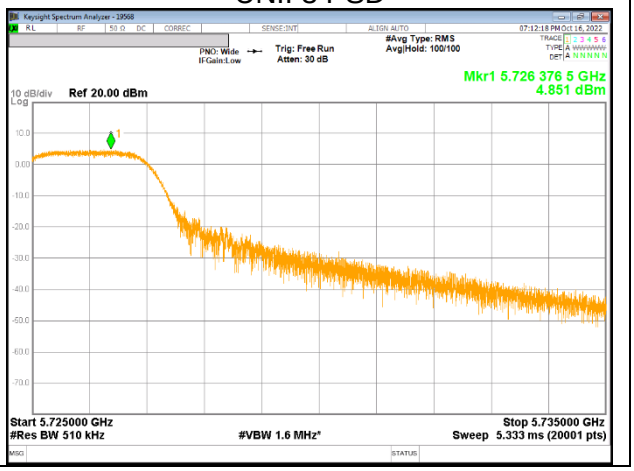
UNII Straddle Ch. IEEE 802.11ax HE80(SU) mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

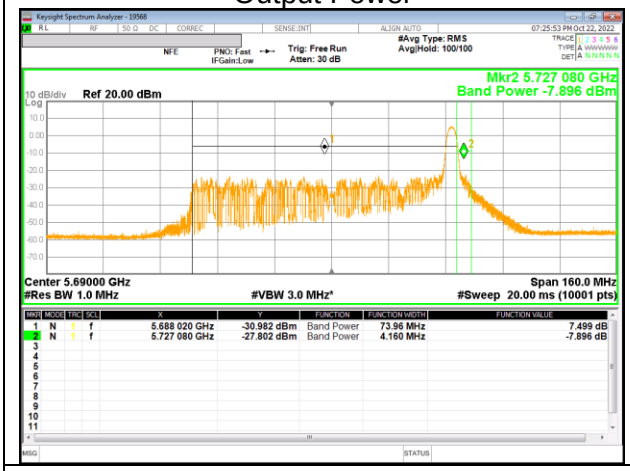
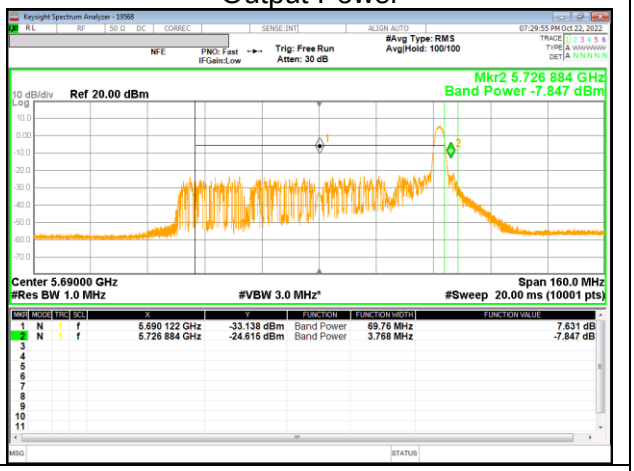
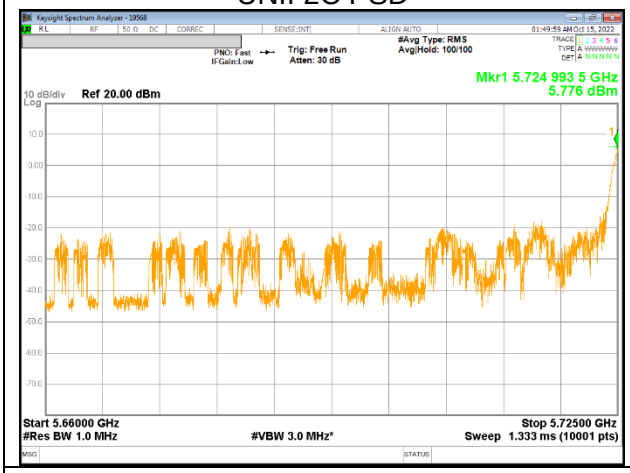
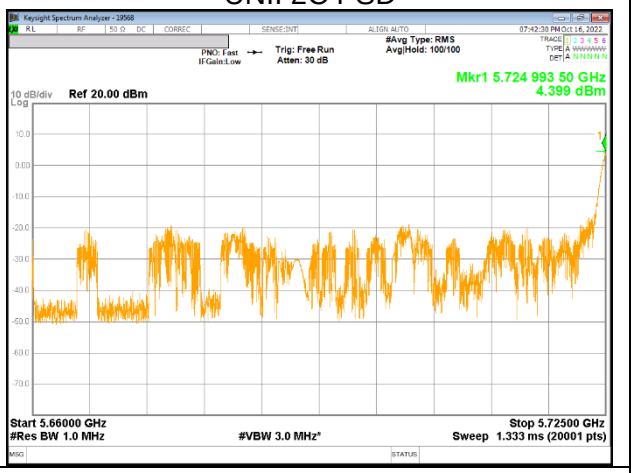
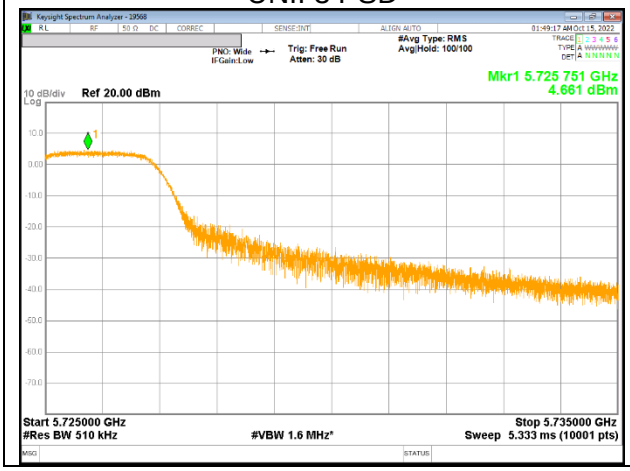
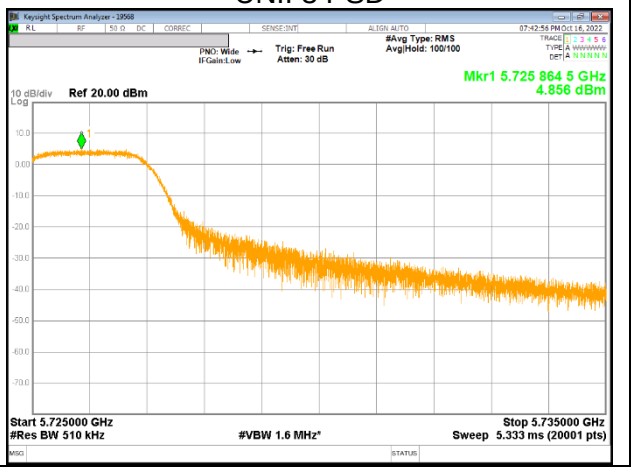
UNII Straddle Ch. IEEE 802.11ax HE20(6RU) mode Output Power and PSD

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

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

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 PSD
	

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

ANT1	ANT2
Output Power	Output Power
	
UNII 2C PSD	UNII 2C PSD
	
UNII 3 PSD	UNII 3 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 solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

> (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz

(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[dBuV/m] = EIRP[dBm] + 95.2 = -27dBm + 95.2 = 68.2dBuV/m

E[dBuV/m] = EIRP[dBm] + 95.2 = -17dBm + 95.2 = 78.2dBuV/m

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15E(04)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

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.In UNII-4, unwanted emissions outside of restricted bands are measured with an RMS detector.

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.

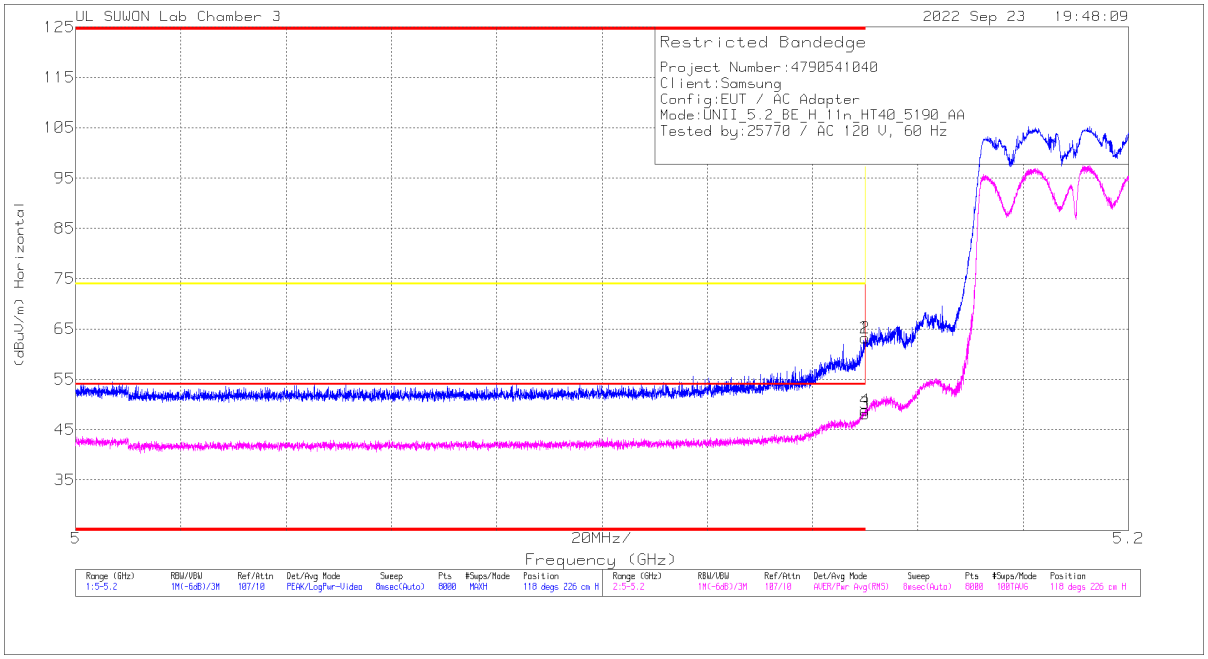
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15E(04)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

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_00218957	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	* 5.14999	48.97	Pk	34.8	-20.6	0	63.17	-	-	74	-10.83	118	226	H
2	* 5.14997	48.97	Pk	34.8	-20.6	0	63.17	-	-	74	-10.83	118	226	H
3	* 5.14999	33.76	RMS	34.8	-20.6	.24	48.2	54	-5.8	-	-	118	226	H
4	* 5.14992	34.47	RMS	34.8	-20.6	.24	48.91	54	-5.09	-	-	118	226	H

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

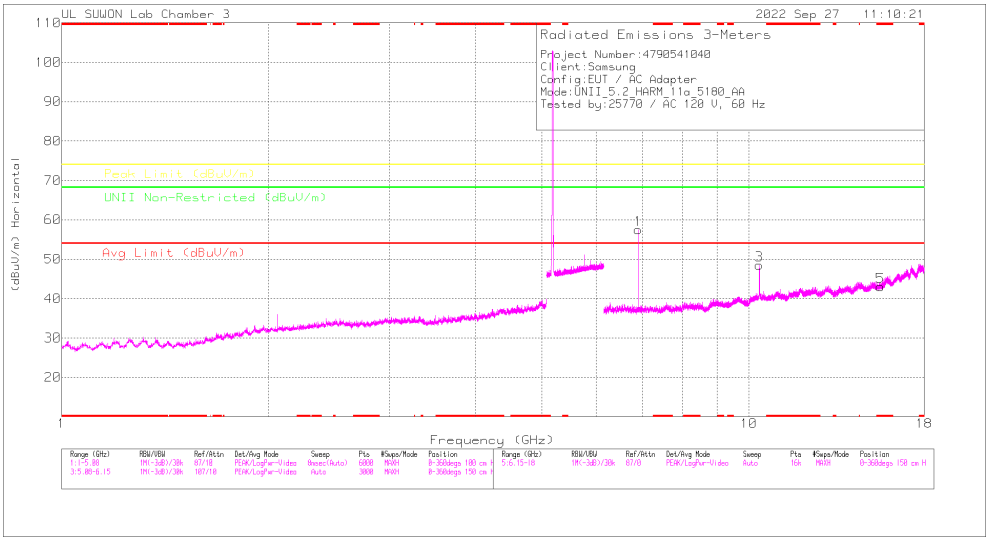
BANDEDGE TEST DATA

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	* 5.14999	38.86	Pk	34.80	-20.60	0.00	53.06	-	-	74.00	-20.94	119	131	H
			* 5.14887	41.68	Pk	34.80	-20.60	0.00	55.88	-	-	74.00	-18.12	119	131	H
			* 5.14999	28.43	RMS	34.80	-20.60	0.17	42.80	54.00	-11.20	-	-	119	131	H
			* 5.14737	29.87	RMS	34.80	-20.60	0.17	44.24	54.00	-9.76	-	-	119	131	H
			* 5.14999	37.82	Pk	34.80	-20.60	0.00	52.02	-	-	74.00	-21.98	88	211	V
			* 5.14844	40.14	Pk	34.80	-20.60	0.00	54.34	-	-	74.00	-19.66	88	211	V
			* 5.14999	27.14	RMS	34.80	-20.60	0.17	41.51	54.00	-12.49	-	-	88	211	V
			* 5.00795	29.33	RMS	34.70	-20.70	0.17	43.50	54.00	-10.50	-	-	88	211	V
802.11n (HT20)	5180	MIMO	* 5.14999	38.43	Pk	34.80	-20.60	0.00	52.63	-	-	74.00	-21.37	117	201	H
			* 5.00528	40.95	Pk	34.70	-20.70	0.00	54.95	-	-	74.00	-19.05	117	201	H
			* 5.14999	27.69	RMS	34.80	-20.60	0.17	42.06	54.00	-11.94	-	-	117	201	H
			* 5.00883	29.34	RMS	34.70	-20.70	0.17	43.51	54.00	-10.49	-	-	117	201	H
			* 5.14999	37.69	Pk	34.80	-20.60	0.00	51.89	-	-	74.00	-22.11	86	106	V
			* 5.00095	40.64	Pk	34.70	-20.60	0.00	54.74	-	-	74.00	-19.26	86	106	V
			* 5.14999	26.92	RMS	34.80	-20.60	0.17	41.29	54.00	-12.71	-	-	86	106	V
			* 5.00035	29.23	RMS	34.70	-20.60	0.17	43.50	54.00	-10.50	-	-	86	106	V
802.11n (HT40)	5190	MIMO	* 5.14999	48.97	Pk	34.80	-20.60	0.00	63.17	-	-	74.00	-10.83	118	226	H
			* 5.14997	48.97	Pk	34.80	-20.60	0.00	63.17	-	-	74.00	-10.83	118	226	H
			* 5.14999	33.76	RMS	34.80	-20.60	0.24	48.20	54.00	-5.80	-	-	118	226	H
			* 5.14992	34.47	RMS	34.80	-20.60	0.24	48.91	54.00	**-5.09**	-	-	118	226	H
			* 5.14999	46.84	Pk	34.80	-20.60	0.00	61.04	-	-	74.00	-12.96	89	101	V
			* 5.14997	45.92	Pk	34.80	-20.60	0.00	60.12	-	-	74.00	-13.88	89	101	V
			* 5.14999	31.86	RMS	34.80	-20.60	0.24	46.30	54.00	-7.70	-	-	89	100	V
			* 5.14969	33.39	RMS	34.80	-20.60	0.24	47.83	54.00	-6.17	-	-	89	100	V
802.11ac (VHT80)	5210	MIMO	* 5.14999	40.10	Pk	34.80	-20.60	0.00	54.30	-	-	74.00	-19.70	115	119	H
			* 5.13829	42.54	Pk	34.80	-20.60	0.00	56.74	-	-	74.00	-17.26	115	119	H
			* 5.14999	30.15	RMS	34.80	-20.60	0.24	44.59	54.00	-9.41	-	-	115	119	H
			* 5.14587	31.06	RMS	34.80	-20.60	0.24	45.50	54.00	-8.50	-	-	115	119	H
			* 5.14999	38.18	Pk	34.80	-20.60	0.00	52.38	-	-	74.00	-21.62	89	100	V
			* 5.00125	40.96	Pk	34.70	-20.60	0.00	55.06	-	-	74.00	-18.94	89	100	V
			* 5.14999	27.58	RMS	34.80	-20.60	0.24	42.02	54.00	-11.98	-	-	89	100	V
			* 5.14654	29.13	RMS	34.80	-20.60	0.24	43.57	54.00	-10.43	-	-	89	100	V
802.11ac (VHT160)	5250 Lower	MIMO	* 5.14999	41.65	Pk	34.80	-20.60	0.00	55.85	-	-	74.00	-18.15	114	109	H
			* 5.12341	43.59	Pk	34.80	-20.60	0.00	57.79	-	-	74.00	-16.21	114	109	H
			* 5.14999	30.84	RMS	34.80	-20.60	0.31	45.35	54.00	-8.65	-	-	114	109	H
			* 5.14457	31.73	RMS	34.80	-20.60	0.31	46.24	54.00	-7.76	-	-	114	109	H
			* 5.14999	38.24	Pk	34.80	-20.60	0.00	52.44	-	-	74.00	-21.56	89	100	V
			* 5.11456	40.92	Pk	34.80	-20.60	0.00	55.12	-	-	74.00	-18.88	89	100	V
			* 5.14999	29.01	RMS	34.80	-20.60	0.31	43.52	54.00	-10.48	-	-	89	100	V
			* 5.14982	29.52	RMS	34.80	-20.60	0.31	44.03	54.00	-9.97	-	-	89	100	V
802.11ax (HE20)	5180	MIMO	* 5.14999	47.06	Pk	34.80	-20.60	0.00	61.26	-	-	74.00	-12.74	116	122	H
			* 5.14789	49.53	Pk	34.80	-20.60	0.00	63.73	-	-	74.00	**-10.27**	116	122	H
			* 5.14999	29.22	RMS	34.80	-20.60	0.00	43.42	54.00	-10.58	-	-	116	122	H
			* 5.14917	31.87	RMS	34.80	-20.60	0.00	46.07	54.00	-7.93	-	-	116	122	H
			* 5.14999	45.00	Pk	34.80	-20.60	0.00	59.20	-	-	74.00	-14.80	78	100	V
			* 5.14777	47.45	Pk	34.80	-20.60	0.00	61.65	-	-	74.00	-12.35	78	100	V
			* 5.14999	27.97	RMS	34.80	-20.60	0.00	42.17	54.00	-11.83	-	-	78	100	V
			* 5.14974	29.64	RMS	34.80	-20.60	0.00	43.84	54.00	-10.16	-	-	78	100	V
802.11ax (HE40)	5190	MIMO	* 5.14999	42.79	Pk	34.80	-20.60	0.00	56.99	-	-	74.00	-17.01	55	103	H
			* 5.14459	47.93	Pk	34.80	-20.60	0.00	62.13	-	-	74.00	-11.87	55	103	H
			* 5.14999	31.40	RMS	34.80	-20.60	0.00	45.60	54.00	-8.40	-	-	55	103	H
			* 5.14949	31.84	RMS	34.80	-20.60	0.00	46.04	54.00	-7.96	-	-	55	103	H
			* 5.14999	39.21	Pk	34.80	-20.60	0.00	53.41	-	-	74.00	-20.59	78	100	V
			* 5.14629	43.81	Pk	34.80	-20.60	0.00	58.01	-	-	74.00	-15.99	78	100	V
			* 5.14999	28.48	RMS	34.80	-20.60	0.00	42.68	54.00	-11.32	-	-	78	100	V
			* 5.14749	29.73	RMS	34.80	-20.60	0.00	43.93	54.00	-10.07	-	-	78	100	V
802.11ax (HE80)	5210	MIMO	* 5.14999	41.35	Pk	34.80	-20.60	0.00	55.55	-	-	74.00	-18.45	57	101	H
			* 5.13327	43.24	Pk	34.80	-20.60	0.00	57.44	-	-	74.00	-16.56	57	101	H
			* 5.14999	30.54	RMS	34.80	-20.60	0.00	44.74	54.00	-9.26	-	-	57	101	H
			* 5.14687	31.38	RMS	34.80	-20.60	0.00	45.58	54.00	-8.42	-	-	57	101	H
			* 5.14999	38.80	Pk	34.80	-20.60	0.00	53.00	-	-	74.00	-21.00	81	100	V
			* 5.14877	41.53	Pk	34.80	-20.60	0.00	55.73	-	-	74.00	-18.27	81	100	V
			* 5.14999	28.62	RMS	34.80	-20.60	0.00	42.82	54.00	-11.18	-	-	81	100	V
			* 5.14282	30.30	RMS	34.80	-20.60	0.00	44.50	54.00	-9.50	-	-	81	100	V
802.11ax (HE160)	5250 Lower	MIMO	* 5.14999	40.60	Pk	34.80	-20.60	0.00	54.80	-	-	74.00	-19.20	112	108	H
			* 5.14982	43.85	Pk	34.80	-20.60	0.00	58.05	-	-	74.00	-15.95	112	108	H
			* 5.14999	30.56	RMS	34.80	-20.60	0.00	44.76	54.00	-9.24	-	-	112	108	H
			* 5.13427	31.64	RMS	34.80	-20.60	0.00	45.84	54.00	-8.16	-	-	112	108	H
			* 5.14999	38.81	Pk	34.80	-20.60	0.00	53.01	-	-	74.00	-20.99	86	212	V
			* 5.14179	41.27	Pk	34.80	-20.60	0.00	55.47	-	-	74.00	-18.53	86	212	V
			* 5.14999	29.04	RMS	34.80	-20.60	0.00	43.24	54.00	-10.76	-	-	86	212	V
			* 5.13994	29.91	RMS	34.80	-20.60	0.00	44.11	54.00	-9.89	-	-	86	212	V

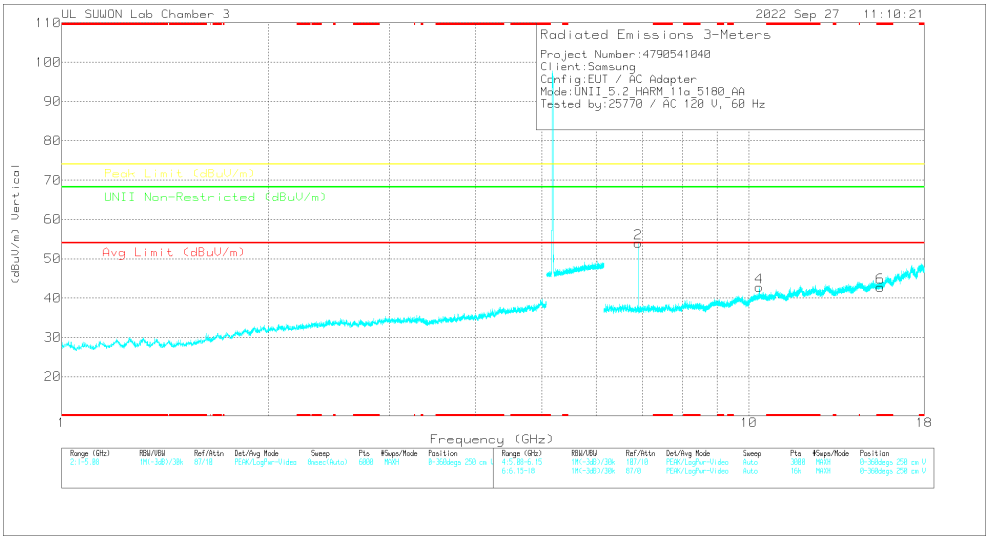
Note1. Pk - Peak detector, RMS - RMS detectior
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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)	Meter Reading (dBuV)	Det	3117_00218957	6GHz_HP(dB)	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 (Degs)	Height (cm)	Polarity
6.90665	48.28	PK-U	36.2	-26.5	0	57.98	-	-	-	-	68.2	-10.22	66	101	H
6.90656	46.93	PK-U	36.2	-26.5	0	56.63	-	-	-	-	68.2	-11.57	93	152	V
10.36271	44.44	PK-U	38.1	-21	0	61.54	-	-	-	-	68.2	-6.66	195	195	H
10.35914	35.47	PK-U	38.1	-21	0	52.57	-	-	-	-	68.2	-15.63	130	100	V
* 15.53877	33.79	PK-U	40.2	-21.4	0	52.59	-	-	74	-21.41	-	-	0	100	H
* 15.53817	34.15	PK-U	40.2	-21.4	0	52.95	-	-	74	-21.05	-	-	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

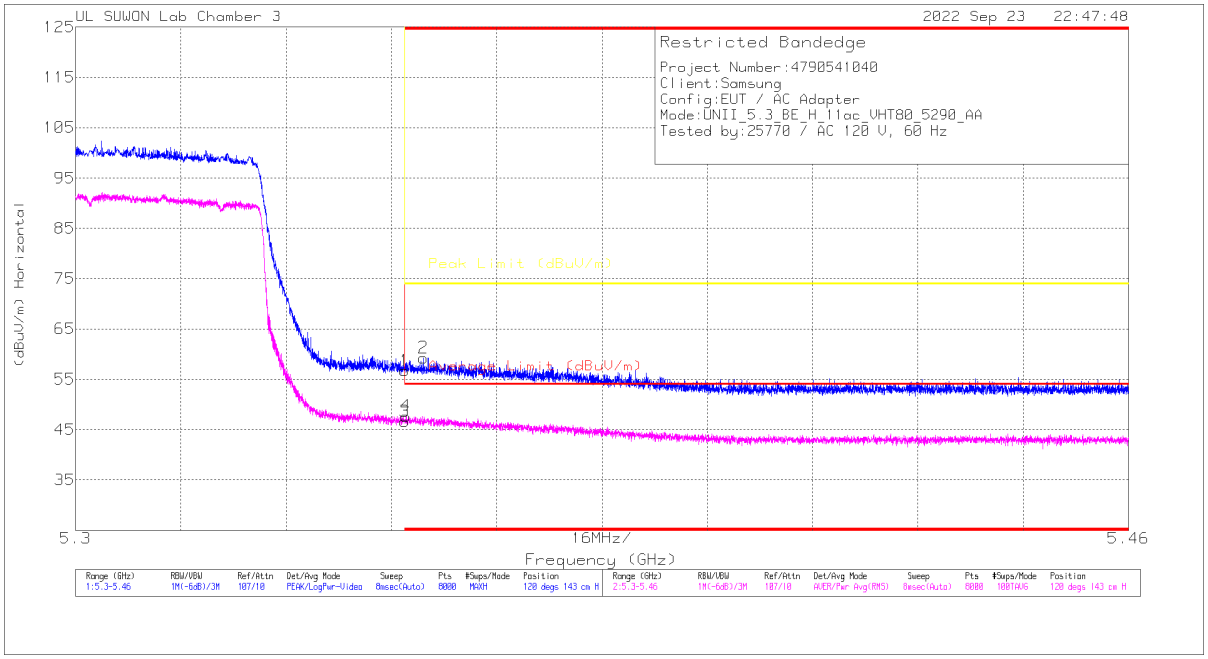
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11a	5180	MIMO	6.907	48.28	PK-U	36.20	-26.50	0.00	57.98	-	-	-	-	68.20	-10.22	66	101	H
			6.907	46.93	PK-U	36.20	-26.50	0.00	56.63	-	-	-	-	68.20	-11.57	93	152	V
			10.363	44.44	PK-U	38.10	-21.00	0.00	61.54	-	-	-	-	68.20	**-6.66**	195	195	H
			10.359	35.47	PK-U	38.10	-21.00	0.00	52.57	-	-	-	-	68.20	-15.63	130	100	V
			* 15.53877	33.79	PK-U	40.20	-21.40	0.00	52.59	-	-	74.00	-21.41	-	-	0	100	H
			* 15.53817	34.15	PK-U	40.20	-21.40	0.00	52.95	-	-	74.00	-21.05	-	-	0	100	V
	5200	MIMO	6.933	48.48	PK-U	36.20	-26.40	0.00	58.28	-	-	-	-	68.20	-9.92	68	101	H
			6.933	47.02	PK-U	36.20	-26.40	0.00	56.82	-	-	-	-	68.20	-11.38	98	157	V
			10.402	44.24	PK-U	38.10	-21.10	0.00	61.24	-	-	-	-	68.20	-6.96	204	199	H
			10.402	37.03	PK-U	38.10	-21.10	0.00	54.03	-	-	-	-	68.20	-14.17	178	394	V
			* 15.60594	33.29	PK-U	40.30	-21.20	0.00	52.39	-	-	74.00	-21.61	-	-	0	100	H
			* 15.60381	33.34	PK-U	40.30	-21.10	0.00	52.54	-	-	74.00	-21.46	-	-	0	100	V
	5240	MIMO	6.987	49.46	PK-U	36.20	-26.00	0.00	59.66	-	-	-	-	68.20	-8.54	113	230	H
			6.987	46.87	PK-U	36.20	-26.00	0.00	57.07	-	-	-	-	68.20	-11.13	273	100	V
			10.482	43.15	PK-U	38.20	-21.20	0.00	60.15	-	-	-	-	68.20	-8.05	205	200	H
			10.484	34.61	PK-U	38.20	-21.20	0.00	51.61	-	-	-	-	68.20	-16.59	225	152	V
			* 15.72926	34.57	PK-U	40.50	-20.90	0.00	54.17	-	-	74.00	**-19.83**	-	-	0	100	H
			* 15.71728	33.43	PK-U	40.50	-21.00	0.00	52.93	-	-	74.00	-21.07	-	-	0	100	V
802.11ax (HE20) 0RU Spot-Check	5240	MIMO	6.987	49.26	PK-U	36.20	-26.00	0.00	59.46	-	-	-	-	68.20	-8.74	63	105	H
			6.987	47.11	PK-U	36.20	-26.00	0.00	57.31	-	-	-	-	68.20	-10.89	88	101	V
			10.462	42.99	PK-U	38.20	-21.20	0.00	59.99	-	-	-	-	68.20	-8.21	202	205	H
			10.463	36.92	PK-U	38.20	-21.20	0.00	53.92	-	-	-	-	68.20	-14.28	185	398	V
			* 15.726	33.82	PK-U	40.50	-20.90	0.00	53.42	-	-	74.00	-20.58	-	-	0	100	H
			* 15.72031	34.49	PK-U	40.50	-21.00	0.00	53.99	-	-	74.00	-20.01	-	-	0	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: 802.11ac VHT80 / 5290 MHz)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	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	* 5.35001	41.81	Pk	35.1	-20.2	0	56.71	-	-	74	-17.29	120	143	H
2	* 5.35281	44.39	Pk	35.1	-20.2	0	59.29	-	-	74	-14.71	120	143	H
3	* 5.35001	31.55	RMS	35.1	-20.2	.24	46.69	54	-7.31	-	-	120	143	H
4	* 5.35017	32.56	RMS	35.1	-20.2	.24	47.7	54	-6.3	-	-	120	143	H

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

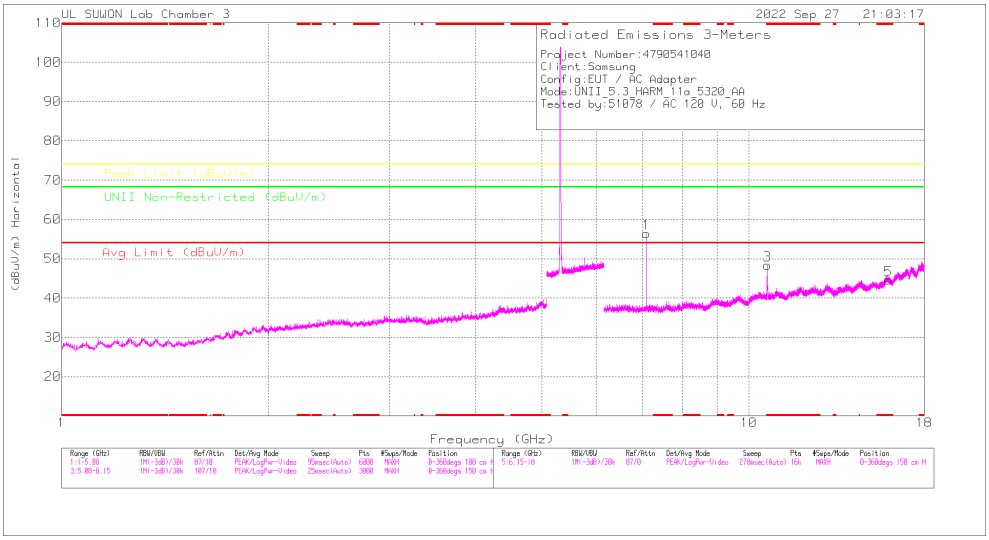
BANDEDGE TEST DATA

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	5320	MIMO	* 5.35001	37.90	Pk	35.10	-20.20	0.00	52.80	-	-	74.00	-21.20	59	117	H
			* 5.35059	40.79	Pk	35.10	-20.20	0.00	55.69	-	-	74.00	-18.31	59	117	H
			* 5.35001	28.00	RMS	35.10	-20.20	0.17	43.07	54.00	-10.93	-	-	59	117	H
			* 5.35125	29.24	RMS	35.10	-20.20	0.17	44.31	54.00	-9.69	-	-	59	117	H
			* 5.35001	38.54	Pk	35.10	-20.20	0.00	53.44	-	-	74.00	-20.56	82	100	V
			* 5.37721	40.78	Pk	35.20	-20.20	0.00	55.78	-	-	74.00	-18.22	82	100	V
			* 5.35001	28.24	RMS	35.10	-20.20	0.17	43.31	54.00	-10.69	-	-	82	100	V
			* 5.35053	29.13	RMS	35.10	-20.20	0.17	44.20	54.00	-9.80	-	-	82	100	V
802.11n (HT20)	5320	MIMO	* 5.35001	38.22	Pk	35.10	-20.20	0.00	53.12	-	-	74.00	-20.88	58	101	H
			* 5.44296	40.17	Pk	35.30	-20.10	0.00	55.37	-	-	74.00	-18.63	58	101	H
			* 5.35001	28.09	RMS	35.10	-20.20	0.17	43.16	54.00	-10.84	-	-	58	101	H
			* 5.4334	28.57	RMS	35.30	-20.10	0.17	43.94	54.00	-10.06	-	-	58	101	H
			* 5.35001	38.06	Pk	35.10	-20.20	0.00	52.96	-	-	74.00	-21.04	252	101	V
			* 5.4362	40.52	Pk	35.30	-20.10	0.00	55.72	-	-	74.00	-18.28	252	101	V
			* 5.35001	27.10	RMS	35.10	-20.20	0.17	42.17	54.00	-11.83	-	-	252	101	V
			* 5.43876	28.42	RMS	35.30	-20.10	0.17	43.79	54.00	-10.21	-	-	252	101	V
802.11n (HT40)	5310	MIMO	* 5.35001	38.84	Pk	35.10	-20.20	0.00	53.74	-	-	74.00	-20.26	60	100	H
			* 5.35397	41.40	Pk	35.10	-20.20	0.00	56.30	-	-	74.00	-17.70	60	100	H
			* 5.35001	29.38	RMS	35.10	-20.20	0.24	44.52	54.00	-9.48	-	-	60	100	H
			* 5.35423	30.55	RMS	35.10	-20.30	0.24	45.59	54.00	-8.41	-	-	60	100	H
			* 5.35001	38.97	Pk	35.10	-20.20	0.00	53.87	-	-	74.00	-20.13	83	107	V
			* 5.35255	40.96	Pk	35.10	-20.20	0.00	55.86	-	-	74.00	-18.14	83	107	V
			* 5.35001	28.77	RMS	35.10	-20.20	0.24	43.91	54.00	-10.09	-	-	83	107	V
			* 5.35091	29.66	RMS	35.10	-20.20	0.24	44.80	54.00	-9.20	-	-	83	107	V
802.11ac (VHT80)	5290	MIMO	* 5.35001	41.81	Pk	35.10	-20.20	0.00	56.71	-	-	74.00	-17.29	120	143	H
			* 5.35281	44.39	Pk	35.10	-20.20	0.00	59.29	-	-	74.00	-14.71	120	143	H
			* 5.35001	31.55	RMS	35.10	-20.20	0.24	46.69	54.00	-7.31	-	-	120	143	H
			* 5.35017	32.56	RMS	35.10	-20.20	0.24	47.70	54.00	**-6.30**	-	-	120	143	H
			* 5.35001	40.57	Pk	35.10	-20.20	0.00	55.47	-	-	74.00	-18.53	86	100	V
			* 5.35257	42.71	Pk	35.10	-20.20	0.00	57.61	-	-	74.00	-16.39	86	100	V
			* 5.35001	29.54	RMS	35.10	-20.20	0.24	44.68	54.00	-9.32	-	-	86	100	V
			* 5.35149	30.85	RMS	35.10	-20.20	0.24	45.99	54.00	-8.01	-	-	86	100	V
802.11ac (VHT160)	5250 Upper	MIMO	* 5.35001	40.68	Pk	35.10	-20.20	0.00	55.58	-	-	74.00	-18.42	113	205	H
			* 5.35157	43.64	Pk	35.10	-20.20	0.00	58.54	-	-	74.00	-15.46	113	205	H
			* 5.35001	29.51	RMS	35.10	-20.20	0.31	44.72	54.00	-9.28	-	-	113	205	H
			* 5.37223	31.42	RMS	35.10	-20.20	0.31	46.63	54.00	-7.37	-	-	113	205	H
			* 5.35001	39.13	Pk	35.10	-20.20	0.00	54.03	-	-	74.00	-19.97	92	100	V
			* 5.38673	42.67	Pk	35.20	-20.20	0.00	57.67	-	-	74.00	-16.33	92	100	V
			* 5.35001	29.10	RMS	35.10	-20.20	0.31	44.31	54.00	-9.69	-	-	92	100	V
			* 5.35945	30.53	RMS	35.10	-20.20	0.31	45.74	54.00	-8.26	-	-	92	100	V
802.11ax (HE20)	5320	MIMO	* 5.35001	38.47	Pk	35.10	-20.20	0.00	53.37	-	-	74.00	-20.63	58	123	H
			* 5.38057	40.73	Pk	35.20	-20.20	0.00	55.73	-	-	74.00	-18.27	58	123	H
			* 5.35001	28.94	RMS	35.10	-20.20	0.00	43.84	54.00	-10.16	-	-	58	123	H
			* 5.35349	29.53	RMS	35.10	-20.20	0.00	44.43	54.00	-9.57	-	-	58	123	H
			* 5.35001	38.81	Pk	35.10	-20.20	0.00	53.71	-	-	74.00	-20.29	78	101	V
			* 5.35041	40.88	Pk	35.10	-20.20	0.00	55.78	-	-	74.00	-18.22	78	101	V
			* 5.35001	28.65	RMS	35.10	-20.20	0.00	43.55	54.00	-10.45	-	-	78	101	V
			* 5.35525	29.39	RMS	35.10	-20.30	0.00	44.19	54.00	-9.81	-	-	78	101	V
802.11ax (HE40)	5310	MIMO	* 5.35001	44.10	Pk	35.10	-20.20	0.00	59.00	-	-	74.00	-15.00	58	123	H
			* 5.35017	52.28	Pk	35.10	-20.20	0.00	67.18	-	-	74.00	**-6.82**	58	123	H
			* 5.35001	31.60	RMS	35.10	-20.20	0.00	46.50	54.00	-7.50	-	-	58	123	H
			* 5.35029	31.72	RMS	35.10	-20.20	0.00	46.62	54.00	-7.38	-	-	58	123	H
			* 5.35001	45.02	Pk	35.10	-20.20	0.00	59.92	-	-	74.00	-14.08	83	100	V
			* 5.35003	45.70	Pk	35.10	-20.20	0.00	60.60	-	-	74.00	-13.40	83	100	V
			* 5.35001	31.10	RMS	35.10	-20.20	0.00	46.00	54.00	-8.00	-	-	83	100	V
			* 5.35141	32.36	RMS	35.10	-20.20	0.00	47.26	54.00	-6.74	-	-	83	100	V
802.11ax (HE80)	5290	MIMO	* 5.35001	40.52	Pk	35.10	-20.20	0.00	55.42	-	-	74.00	-18.58	55	125	H
			* 5.35397	42.91	Pk	35.10	-20.20	0.00	57.81	-	-	74.00	-16.19	55	125	H
			* 5.35001	30.30	RMS	35.10	-20.20	0.00	45.20	54.00	-8.80	-	-	55	125	H
			* 5.36089	31.02	RMS	35.10	-20.20	0.00	45.92	54.00	-8.08	-	-	55	125	H
			* 5.35001	40.12	Pk	35.10	-20.20	0.00	55.02	-	-	74.00	-18.98	83	100	V
			* 5.35209	44.20	Pk	35.10	-20.20	0.00	59.10	-	-	74.00	-14.90	83	100	V
			* 5.35001	29.48	RMS	35.10	-20.20	0.00	44.38	54.00	-9.62	-	-	83	100	V
			* 5.35509	31.03	RMS	35.10	-20.30	0.00	45.83	54.00	-8.17	-	-	83	100	V
802.11ax (HE160)	5250 Upper	MIMO	* 5.35001	41.19	Pk	35.10	-20.20	0.00	56.09	-	-	74.00	-17.91	114	126	H
			* 5.40238	43.00	Pk	35.20	-20.20	0.00	58.00	-	-	74.00	-16.00	114	126	H
			* 5.35001	29.77	RMS	35.10	-20.20	0.00	44.67	54.00	-9.33	-	-	114	126	H
			* 5.36129	31.37	RMS	35.10	-20.20	0.00	46.27	54.00	-7.73	-	-	114	126	H
			* 5.35001	39.94	Pk	35.10	-20.20	0.00	54.84	-	-	74.00	-19.16	85	100	V
			* 5.39713	42.05	Pk	35.20	-20.20	0.00	57.05	-	-	74.00	-16.95	85	100	V
			* 5.35001	29.67	RMS	35.10	-20.20	0.00	44.57	54.00	-9.43	-	-	85	100	V
			* 5.35073	30.52	RMS	35.10	-20.20	0.00	45.42	54.00	-8.58	-	-	85	100	V

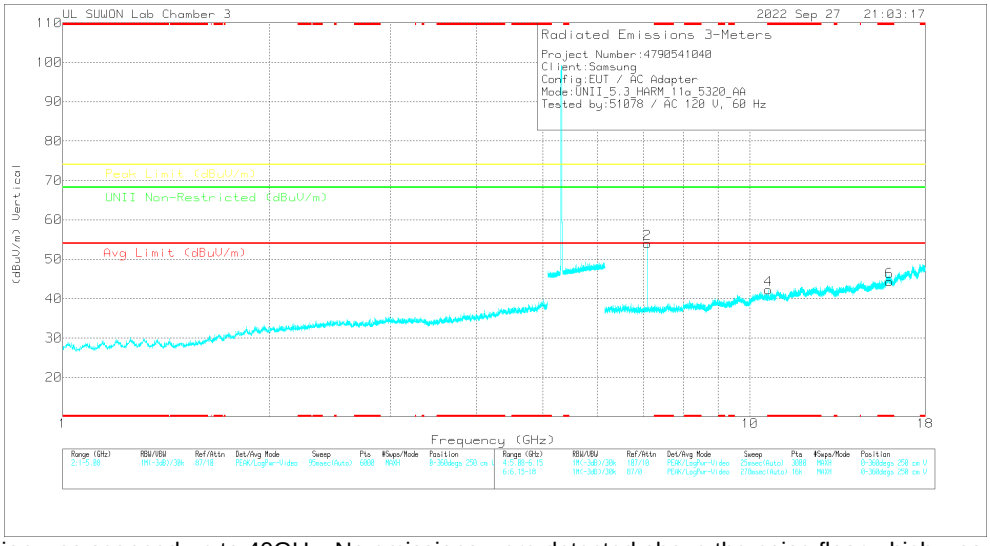
Note1. Pk - Peak detector, RMS - RMS detectior
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11a / 5320 MHz)

5320 MHz HORIZONTAL



5320 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.

5320 MHz DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	6GHz_HP[dB]	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 (Degs)	Height (cm)	Polarity
7.09322	48.75	PK-U	36.2	-26	0	58.95	-	-	-	-	68.2	-9.25	114	234	H
7.09331	45.99	PK-U	36.2	-26	0	56.19	-	-	-	-	68.2	-12.01	131	105	V
* 10.64224	41.36	PK-U	38.3	-21.1	0	58.56	-	-	74	-15.44	-	-	192	206	H
* 10.64208	29.3	ADR	38.3	-21.1	.17	46.67	54	-7.33	-	-	-	-	192	206	H
* 10.64235	36.13	PK-U	38.3	-21.1	0	53.33	-	-	74	-20.67	-	-	189	341	V
* 10.63752	23.67	ADR	38.3	-21.1	.17	41.04	54	-12.96	-	-	-	-	189	341	V
* 15.96637	33.87	PK-U	40.9	-20.4	0	54.37	-	-	74	-19.63	-	-	0	100	H
* 15.9614	33.76	PK-U	40.9	-20.4	0	54.26	-	-	74	-19.74	-	-	0	100	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

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

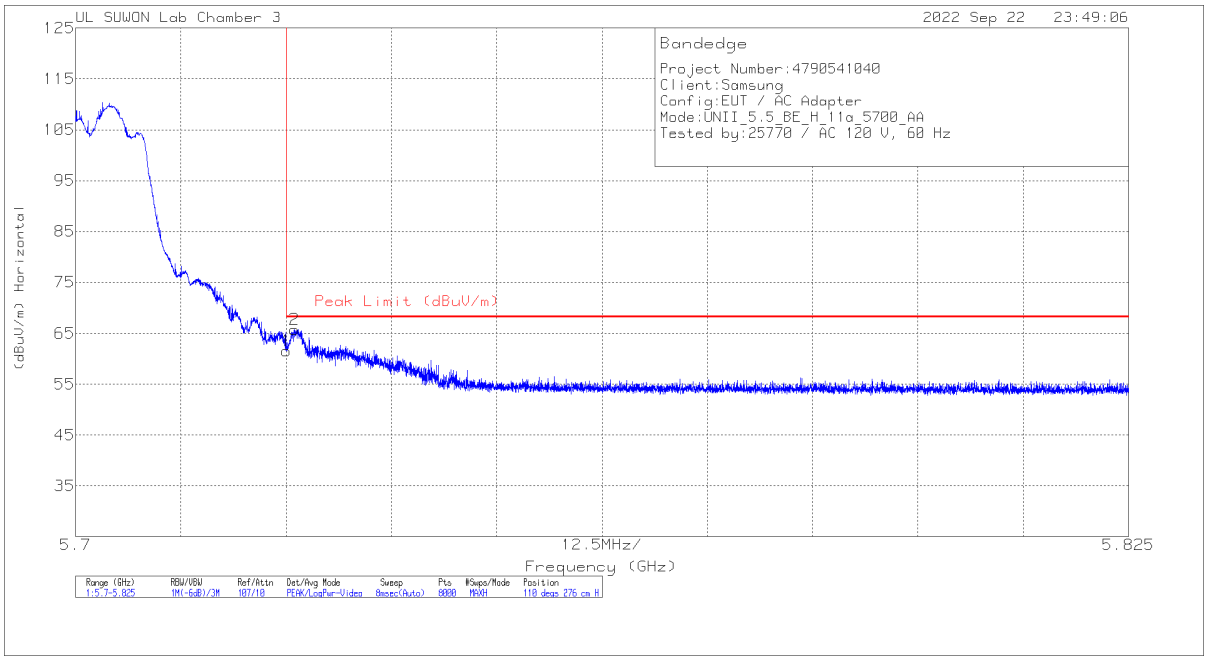
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11a	5260	MIMO	7.013	49.06	PK-U	36.20	-25.90	0.00	59.36	-	-	-	-	68.20	-8.84	112	245	H
			7.013	46.46	PK-U	36.20	-25.90	0.00	56.76	-	-	-	-	68.20	-11.44	130	100	V
			10.522	42.13	PK-U	38.20	-21.10	0.00	59.23	-	-	-	-	68.20	-8.97	185	197	H
			10.522	36.32	PK-U	38.20	-21.10	0.00	53.42	-	-	-	-	68.20	-14.78	159	396	V
			* 15.78688	33.92	PK-U	40.60	-20.80	0.00	53.72	-	-	74.00	-20.28	-	-	0	100	H
			* 15.78962	34.61	PK-U	40.60	-20.80	0.00	54.41	-	-	74.00	-19.59	-	-	0	100	V
	5300	MIMO	7.066	49.26	PK-U	36.20	-25.90	0.00	59.56	-	-	-	-	68.20	-8.64	118	232	H
			7.067	46.44	PK-U	36.20	-25.90	0.00	56.74	-	-	-	-	68.20	-11.46	108	106	V
			* 10.60255	42.01	PK-U	38.30	-21.20	0.00	59.11	-	-	74.00	-14.89	-	-	205	207	H
			* 10.60235	28.89	ADR	38.30	-21.20	0.17	46.16	54.00	-7.84	-	-	-	-	205	207	H
			* 10.6024	32.91	PK-U	38.30	-21.20	0.00	50.01	-	-	74.00	-23.99	-	-	224	158	V
			* 10.60308	21.34	RMS	38.30	-21.20	0.17	38.61	54.00	-15.39	-	-	-	-	224	158	V
			* 15.90671	33.60	PK-U	40.80	-20.30	0.00	54.10	-	-	74.00	-19.90	-	-	0	100	H
			* 15.90031	34.34	PK-U	40.80	-20.30	0.00	54.84	-	-	74.00	-19.16	-	-	0	100	V
	5320	MIMO	7.093	48.75	PK-U	36.20	-26.00	0.00	58.95	-	-	-	-	68.20	-9.25	114	234	H
			7.093	45.99	PK-U	36.20	-26.00	0.00	56.19	-	-	-	-	68.20	-12.01	131	105	V
			* 10.64224	41.36	PK-U	38.30	-21.10	0.00	58.56	-	-	74.00	-15.44	-	-	192	206	H
			* 10.64208	29.30	ADR	38.30	-21.10	0.17	46.67	54.00	**-7.33**	-	-	-	-	192	206	H
			* 10.64235	36.13	PK-U	38.30	-21.10	0.00	53.33	-	-	74.00	-20.67	-	-	189	341	V
			* 10.63752	23.67	ADR	38.30	-21.10	0.17	41.04	54.00	-12.96	-	-	-	-	189	341	V
			* 15.96637	33.87	PK-U	40.90	-20.40	0.00	54.37	-	-	74.00	-19.63	-	-	0	100	H
			* 15.9614	33.76	PK-U	40.90	-20.40	0.00	54.26	-	-	74.00	-19.74	-	-	0	100	V
802.11ax (HE20) 8RU Spot-Check	5300	MIMO	7.067	49.58	PK-U	36.20	-25.90	0.00	59.88	-	-	-	-	68.20	**-8.32**	113	239	H
			7.067	47.14	PK-U	36.20	-25.90	0.00	57.44	-	-	-	-	68.20	-10.76	271	100	V
			* 10.61578	43.13	PK-U	38.30	-21.10	0.00	60.33	-	-	74.00	**-13.67**	-	-	206	205	H
			* 10.61688	28.06	ADR	38.30	-21.10	0.00	45.26	54.00	-8.74	-	-	-	-	206	205	H
			* 10.69729	33.13	Pk	38.40	-21.20	0.00	50.33	-	-	74.00	-23.67	-	-	0	100	V
			* 15.90349	33.53	PK-U	40.80	-20.30	0.00	54.03	-	-	74.00	-19.97	-	-	0	100	H

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: 802.11a / 5700 MHz)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.36	Pk	35.7	-19.5	0	61.56	68.2	-6.64	110	276	H
2	5.72599	49.56	Pk	35.7	-19.5	0	65.76	68.2	-2.44	110	276	H

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

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	* 5.45998	38.57	Pk	35.30	-20.10	0.00	53.77	-	-	74.00	-20.23	107	125	H
			* 5.45598	40.97	Pk	35.30	-20.10	0.00	56.17	-	-	74.00	-17.83	107	125	H
			5.46998	39.05	Pk	35.30	-20.10	0.00	54.25	-	-	68.20	-13.95	107	125	H
			5.46571	40.93	Pk	35.30	-20.10	0.00	56.13	-	-	68.20	-12.07	107	125	H
			* 5.45998	28.75	RMS	35.30	-20.10	0.17	44.12	54.00	-9.88	-	-	107	125	H
			* 5.45742	29.21	RMS	35.30	-20.10	0.17	44.58	54.00	-9.42	-	-	107	125	H
			5.46998	28.91	RMS	35.30	-20.10	0.17	44.28	-	-	-	-	107	125	H
			5.46716	29.80	RMS	35.30	-20.10	0.17	45.17	-	-	-	-	107	125	H
			* 5.45998	38.23	Pk	35.30	-20.10	0.00	53.43	-	-	74.00	-20.57	79	100	V
			* 5.43697	40.79	Pk	35.30	-20.10	0.00	55.99	-	-	74.00	-18.01	79	100	V
			5.46998	38.56	Pk	35.30	-20.10	0.00	53.76	-	-	68.20	-14.44	79	100	V
			5.46552	40.71	Pk	35.30	-20.10	0.00	55.91	-	-	68.20	-12.29	79	100	V
			* 5.45998	28.19	RMS	35.30	-20.10	0.17	43.56	54.00	-10.44	-	-	79	100	V
			* 5.45961	29.18	RMS	35.30	-20.10	0.17	44.55	54.00	-9.45	-	-	79	100	V
			5.46998	28.16	RMS	35.30	-20.10	0.17	43.53	-	-	-	-	79	100	V
			5.46878	30.05	RMS	35.30	-20.10	0.17	45.42	-	-	-	-	79	100	V
	5700	MIMO	5.72500	45.36	Pk	35.70	-19.50	0.00	61.56	-	-	68.20	-6.64	110	276	H
			5.72599	49.56	Pk	35.70	-19.50	0.00	65.76	-	-	68.20	**-2.44**	110	276	H
			5.72500	47.13	Pk	35.70	-19.50	0.00	63.33	-	-	68.20	-4.87	86	110	V
			5.72607	49.55	Pk	35.70	-19.50	0.00	65.75	-	-	68.20	-2.45	86	110	V
802.11n (HT20)	5500	MIMO	* 5.45998	39.94	Pk	35.30	-20.10	0.00	55.14	-	-	74.00	-18.86	117	134	H
			* 5.45232	41.65	Pk	35.30	-20.10	0.00	56.85	-	-	74.00	-17.15	117	134	H
			5.46998	41.62	Pk	35.30	-20.10	0.00	56.82	-	-	68.20	-11.38	117	134	H
			5.46335	41.83	Pk	35.30	-20.10	0.00	57.03	-	-	68.20	-11.17	117	134	H
			* 5.45998	28.81	RMS	35.30	-20.10	0.17	44.18	54.00	-9.82	-	-	117	134	H
			* 5.45698	29.74	RMS	35.30	-20.10	0.17	45.11	54.00	-8.89	-	-	117	134	H
			5.46998	29.24	RMS	35.30	-20.10	0.17	44.61	-	-	-	-	117	134	H
			5.46392	30.21	RMS	35.30	-20.10	0.17	45.58	-	-	-	-	117	134	H
			* 5.45998	36.98	Pk	35.30	-20.10	0.00	52.18	-	-	74.00	-21.82	117	155	V
			* 5.42795	40.13	Pk	35.30	-20.10	0.00	55.33	-	-	74.00	-18.67	117	155	V
			5.46998	37.20	Pk	35.30	-20.10	0.00	52.40	-	-	68.20	-15.80	117	155	V
			5.46315	39.61	Pk	35.30	-20.10	0.00	54.81	-	-	68.20	-13.39	117	155	V
			* 5.45998	27.23	RMS	35.30	-20.10	0.17	42.60	54.00	-11.40	-	-	117	155	V
			* 5.45226	28.50	RMS	35.30	-20.10	0.17	43.87	54.00	-10.13	-	-	117	155	V
			5.46998	27.20	RMS	35.30	-20.10	0.17	42.57	-	-	-	-	117	155	V
			5.46904	28.44	RMS	35.30	-20.10	0.17	43.81	-	-	-	-	117	155	V
	5700	MIMO	5.72500	44.09	Pk	35.70	-19.50	0.00	60.29	-	-	68.20	-7.91	114	229	H
			5.72539	45.30	Pk	35.70	-19.50	0.00	61.50	-	-	68.20	-6.70	114	229	H
			5.72500	43.21	Pk	35.70	-19.50	0.00	59.41	-	-	68.20	-8.79	88	117	V
			5.72588	45.17	Pk	35.70	-19.50	0.00	61.37	-	-	68.20	-6.83	88	117	V
802.11n (HT40)	5510	MIMO	* 5.45998	40.48	Pk	35.30	-20.10	0.00	55.68	-	-	74.00	-18.32	114	217	H
			* 5.45598	41.88	Pk	35.30	-20.10	0.00	57.08	-	-	74.00	-16.92	114	217	H
			5.46998	45.38	Pk	35.30	-20.10	0.00	60.58	-	-	68.20	-7.62	114	217	H
			5.46928	45.97	Pk	35.30	-20.10	0.00	61.17	-	-	68.20	-7.03	114	217	H
			* 5.45998	29.71	RMS	35.30	-20.10	0.24	45.15	54.00	-8.85	-	-	114	217	H
			* 5.45838	30.71	RMS	35.30	-20.10	0.24	46.15	54.00	-7.85	-	-	114	217	H
			5.46998	32.82	RMS	35.30	-20.10	0.24	48.26	-	-	-	-	114	217	H
			5.46930	33.93	RMS	35.30	-20.10	0.24	49.37	-	-	-	-	114	217	H
			* 5.45998	38.87	Pk	35.30	-20.10	0.00	54.07	-	-	74.00	-19.93	95	104	V
			* 5.4551	41.39	Pk	35.30	-20.10	0.00	56.59	-	-	74.00	-17.41	95	104	V
			5.46998	40.88	Pk	35.30	-20.10	0.00	56.08	-	-	68.20	-12.12	95	104	V
			5.46930	42.92	Pk	35.30	-20.10	0.00	58.12	-	-	68.20	-10.08	95	104	V
			* 5.45998	29.10	RMS	35.30	-20.10	0.24	44.54	54.00	-9.46	-	-	95	104	V
			* 5.45348	29.55	RMS	35.30	-20.10	0.24	44.99	54.00	-9.01	-	-	95	104	V
			5.46998	30.59	RMS	35.30	-20.10	0.24	46.03	-	-	-	-	95	104	V
			5.46961	31.21	RMS	35.30	-20.10	0.24	46.65	-	-	-	-	95	104	V
	5670	MIMO	5.72500	40.89	Pk	35.70	-19.50	0.00	57.09	-	-	68.20	-11.11	117	238	H
			5.72539	43.14	Pk	35.70	-19.50	0.00	59.34	-	-	68.20	-8.86	117	238	H
			5.72500	39.15	Pk	35.70	-19.50	0.00	55.35	-	-	68.20	-12.85	95	108	V
			5.73493	42.96	Pk	35.70	-19.50	0.00	59.16	-	-	68.20	-9.04	95	108	V
802.11ac (VHT80)	5530	MIMO	* 5.45998	41.50	Pk	35.30	-20.10	0.00	56.70	-	-	74.00	-17.30	114	240	H
			* 5.45992	44.26	Pk	35.30	-20.10	0.00	59.46	-	-	74.00	-14.54	114	240	H
			5.46998	42.61	Pk	35.30	-20.10	0.00	57.81	-	-	68.20	-10.39	114	240	H
			5.46783	46.10	Pk	35.30	-20.10	0.00	61.30	-	-	68.20	-6.90	114	240	H
			* 5.45998	31.18	RMS	35.30	-20.10	0.24	46.62	54.00	-7.38	-	-	114	240	H
			* 5.45766	31.94	RMS	35.30	-20.10	0.24	47.38	54.00	-6.62	-	-	114	240	H
			5.46998	32.27	RMS	35.30	-20.10	0.24	47.71	-	-	-	-	114	240	H
			5.46967	32.74	RMS	35.30	-20.10	0.24	48.18	-	-	-	-	114	240	H
			* 5.45998	40.66	Pk	35.30	-20.10	0.00	55.86	-	-	74.00	-18.14	88	103	V
			* 5.45626	42.89	Pk	35.30	-20.10	0.00	58.09	-	-	74.00	-15.91	88	103	V
			5.46998	40.21	Pk	35.30	-20.10	0.00	55.41	-	-	68.20	-12.79	88	103	V
			5.46703	42.42	Pk	35.30	-20.10	0.00	57.62	-	-	68.20	-10.58	88	103	V
			* 5.45998	30.04	RMS	35.30	-20.10	0.24	45.48	54.00	-8.52	-	-	88	103	V
			* 5.45865	31.28	RMS	35.30	-20.10	0.24	46.72	54.00	-7.28	-	-	88	103	V
			5.46998	30.85	RMS	35.30	-20.10	0.24	46.29	-	-	-	-	88	103	V
			5.46674	31.35	RMS	35.30	-20.10	0.24	46.79	-	-	-	-	88	103	V
	5610	MIMO	5.72500	37.07	Pk	35.70	-19.50	0.00	53.27	-	-	68.20	-14.93	118	230	H
			5.77296	41.07	Pk	35.70	-19.40	0.00	57.37	-	-	68.20	-10.83	118	230	H
			5.72500	37.29	Pk	35.70	-19.50	0.00	53.49	-	-	68.20	-14.71	93	100	V
			5.73208	41.08	Pk	35.70	-19.50	0.00	57.28	-	-	68.20	-10.92	93	100	V

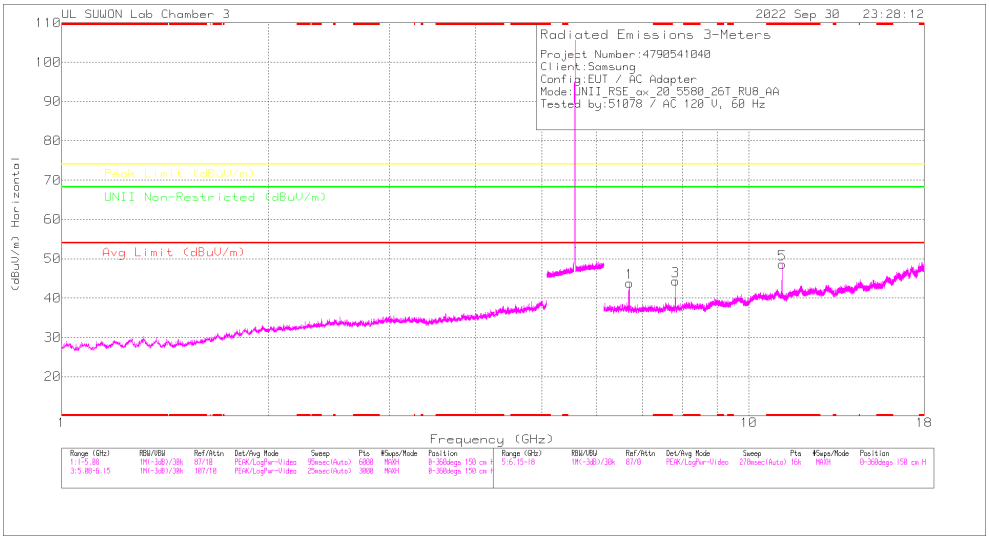
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ac (VHT160)	5570 Lower	MIMO	* 5.45998	41.54	Pk	35.30	-20.10	0.00	56.74	-	-	74.00	-17.26	115	240	H
			* 5.4441	44.91	Pk	35.30	-20.10	0.00	60.11	-	-	74.00	-13.89	115	240	H
			5.46998	42.48	Pk	35.30	-20.10	0.00	57.68	-	-	68.20	-10.52	115	240	H
			5.46753	45.01	Pk	35.30	-20.10	0.00	60.21	-	-	68.20	-7.99	115	240	H
			* 5.45998	31.09	RMS	35.30	-20.10	0.31	46.60	54.00	-7.40	-	-	115	240	H
			* 5.45976	32.26	RMS	35.30	-20.10	0.31	47.77	54.00	-6.23	-	-	115	240	H
			5.46998	32.44	RMS	35.30	-20.10	0.31	47.95	-	-	-	-	115	240	H
			5.46716	32.45	RMS	35.30	-20.10	0.31	47.96	-	-	-	-	115	240	H
			* 5.45998	40.92	Pk	35.30	-20.10	0.00	56.12	-	-	74.00	-17.88	88	103	V
			* 5.44699	44.54	Pk	35.30	-20.10	0.00	59.74	-	-	74.00	-14.26	88	103	V
			5.46998	40.62	Pk	35.30	-20.10	0.00	55.82	-	-	68.20	-12.38	88	103	V
			5.46674	42.91	Pk	35.30	-20.10	0.00	58.11	-	-	68.20	-10.09	88	103	V
			* 5.45998	29.77	RMS	35.30	-20.10	0.31	45.28	54.00	-8.72	-	-	88	103	V
			* 5.45932	31.21	RMS	35.30	-20.10	0.31	46.72	54.00	-7.28	-	-	88	103	V
			5.46998	30.70	RMS	35.30	-20.10	0.31	46.21	-	-	-	-	88	103	V
			5.46029	31.58	RMS	35.30	-20.10	0.31	47.09	-	-	-	-	88	103	V
	5570 Upper	MIMO	5.72501	39.87	Pk	35.70	-19.50	0.00	56.07	-	-	68.20	-12.13	113	231	H
			5.73063	41.35	Pk	35.70	-19.50	0.00	57.55	-	-	68.20	-10.65	113	231	H
			5.72501	39.28	Pk	35.70	-19.50	0.00	55.48	-	-	68.20	-12.72	94	100	V
			5.72782	41.25	Pk	35.70	-19.50	0.00	57.45	-	-	68.20	-10.75	94	100	V
802.11ax (HE20)	5500	MIMO	* 5.45998	39.06	Pk	35.30	-20.10	0.00	54.26	-	-	74.00	-19.74	115	241	H
			* 5.44491	41.34	Pk	35.30	-20.10	0.00	56.54	-	-	74.00	-17.46	115	241	H
			5.46998	40.28	Pk	35.30	-20.10	0.00	55.48	-	-	68.20	-12.72	115	241	H
			5.46829	42.32	Pk	35.30	-20.10	0.00	57.52	-	-	68.20	-10.68	115	241	H
			* 5.45998	28.65	RMS	35.30	-20.10	0.00	43.85	54.00	-10.15	-	-	115	241	H
			* 5.45882	30.39	RMS	35.30	-20.10	0.00	45.59	54.00	-8.41	-	-	115	241	H
			5.46998	29.83	RMS	35.30	-20.10	0.00	45.03	-	-	-	-	115	241	H
			5.46926	30.95	RMS	35.30	-20.10	0.00	46.15	-	-	-	-	115	241	H
			* 5.45998	38.64	Pk	35.30	-20.10	0.00	53.84	-	-	74.00	-20.16	86	100	V
			* 5.42023	40.88	Pk	35.20	-20.10	0.00	55.98	-	-	74.00	-18.02	86	100	V
			5.46998	39.74	Pk	35.30	-20.10	0.00	54.94	-	-	68.20	-13.26	86	100	V
			5.46880	41.52	Pk	35.30	-20.10	0.00	56.72	-	-	68.20	-11.48	86	100	V
			* 5.45998	28.35	RMS	35.30	-20.10	0.00	43.55	54.00	-10.45	-	-	86	100	V
			* 5.45644	29.64	RMS	35.30	-20.10	0.00	44.84	54.00	-9.16	-	-	86	100	V
			5.46998	29.65	RMS	35.30	-20.10	0.00	44.85	-	-	-	-	86	100	V
			5.46969	30.71	RMS	35.30	-20.10	0.00	45.91	-	-	-	-	86	100	V
	5700	MIMO	5.72500	49.27	Pk	35.70	-19.50	0.00	65.47	-	-	68.20	-2.73	116	240	H
			5.72575	48.65	Pk	35.70	-19.50	0.00	64.85	-	-	68.20	-3.35	116	240	H
			5.72500	42.01	Pk	35.70	-19.50	0.00	58.21	-	-	68.20	-9.99	78	100	V
			5.72589	48.25	Pk	35.70	-19.50	0.00	64.45	-	-	68.20	-3.75	78	100	V
802.11ax (HE40)	5510	MIMO	* 5.45998	39.97	Pk	35.30	-20.10	0.00	55.17	-	-	74.00	-18.83	55	130	H
			* 5.45961	42.77	Pk	35.30	-20.10	0.00	57.97	-	-	74.00	-16.03	55	130	H
			5.46998	44.56	Pk	35.30	-20.10	0.00	59.76	-	-	68.20	-8.44	55	130	H
			5.46878	45.47	Pk	35.30	-20.10	0.00	60.67	-	-	68.20	-7.53	55	130	H
			* 5.45998	30.42	RMS	35.30	-20.10	0.00	45.62	54.00	-8.38	-	-	55	130	H
			* 5.45913	30.97	RMS	35.30	-20.10	0.00	46.17	54.00	-7.83	-	-	55	130	H
			5.46998	33.07	RMS	35.30	-20.10	0.00	48.27	-	-	-	-	55	130	H
			5.46939	33.28	RMS	35.30	-20.10	0.00	48.48	-	-	-	-	55	130	H
			* 5.45998	40.24	Pk	35.30	-20.10	0.00	55.44	-	-	74.00	-18.56	89	101	V
			* 5.45849	42.02	Pk	35.30	-20.10	0.00	57.22	-	-	74.00	-16.78	89	101	V
			5.46998	45.60	Pk	35.30	-20.10	0.00	60.80	-	-	68.20	-7.40	89	101	V
			5.46945	46.33	Pk	35.30	-20.10	0.00	61.53	-	-	68.20	-6.67	89	101	V
			* 5.45998	29.62	RMS	35.30	-20.10	0.00	44.82	54.00	-9.18	-	-	89	101	V
			* 5.45926	30.91	RMS	35.30	-20.10	0.00	46.11	54.00	-7.89	-	-	89	101	V
			5.46998	32.50	RMS	35.30	-20.10	0.00	47.70	-	-	-	-	89	101	V
			5.46932	33.34	RMS	35.30	-20.10	0.00	48.54	-	-	-	-	89	101	V
	5670	MIMO	5.72500	45.92	Pk	35.70	-19.50	0.00	62.12	-	-	68.20	-6.08	112	240	H
			5.72632	49.45	Pk	35.70	-19.50	0.00	65.65	-	-	68.20	-2.55	112	240	H
			5.72500	41.49	Pk	35.70	-19.50	0.00	57.69	-	-	68.20	-10.51	89	105	V
			5.72864	45.96	Pk	35.70	-19.50	0.00	62.16	-	-	68.20	-6.04	89	105	V
802.11ax (HE80)	5530	MIMO	* 5.45998	42.67	Pk	35.30	-20.10	0.00	57.87	-	-	74.00	-16.13	114	270	H
			* 5.45652	44.95	Pk	35.30	-20.10	0.00	60.15	-	-	74.00	-13.85	114	270	H
			5.46998	44.02	Pk	35.30	-20.10	0.00	59.22	-	-	68.20	-8.98	114	270	H
			5.46783	46.85	Pk	35.30	-20.10	0.00	62.05	-	-	68.20	-6.15	114	270	H
			* 5.45998	32.01	RMS	35.30	-20.10	0.00	47.21	54.00	-6.79	-	-	114	270	H
			* 5.45727	33.17	RMS	35.30	-20.10	0.00	48.37	54.00	**-5.63**	-	-	114	270	H
			5.46998	33.26	RMS	35.30	-20.10	0.00	48.46	-	-	-	-	114	270	H
			5.46875	33.80	RMS	35.30	-20.10	0.00	49.00	-	-	-	-	114	270	H
			* 5.45998	42.76	Pk	35.30	-20.10	0.00	57.96	-	-	74.00	-16.04	87	103	V
			* 5.45265	44.84	Pk	35.30	-20.10	0.00	60.04	-	-	74.00	-13.96	87	103	V
			5.46998	42.42	Pk	35.30	-20.10	0.00	57.62	-	-	68.20	-10.58	87	103	V
			5.46884	45.37	Pk	35.30	-20.10	0.00	60.57	-	-	68.20	-7.63	87	103	V
			* 5.45998	32.29	RMS	35.30	-20.10	0.00	47.49	54.00	-6.51	-	-	87	103	V
			* 5.45613	32.35	RMS	35.30	-20.10	0.00	47.55	54.00	-6.45	-	-	87	103	V
			5.46998	30.89	RMS	35.30	-20.10	0.00	46.09	-	-	-	-	87	103	V
			5.46600	32.83	RMS	35.30	-20.10	0.00	48.03	-	-	-	-	87	103	V
	5610	MIMO	5.72500	37.71	Pk	35.70	-19.50	0.00	53.91	-	-	68.20	-14.29	114	267	H
			5.72557	40.72	Pk	35.70	-19.50	0.00	56.92	-	-	68.20	-11.28	114	267	H
			5.72500	37.84	Pk	35.70	-19.50	0.00	54.04	-	-	68.20	-14.16	94	100	V
			5.82158	40.00	Pk	35.80	-19.30	0.00	56.50	-	-	68.20	-11.70	94	100	V

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
802.11ax (HE160)	5570 Lower	MIMO	* 5.45998	41.03	Pk	35.30	-20.10	0.00	56.23	-	-	74.00	-17.77	111	266	H
			* 5.44764	43.91	Pk	35.30	-20.10	0.00	59.11	-	-	74.00	-14.89	111	266	H
			5.46998	40.73	Pk	35.30	-20.10	0.00	55.93	-	-	68.20	-12.27	111	266	H
			5.46869	44.22	Pk	35.30	-20.10	0.00	59.42	-	-	68.20	-8.78	111	266	H
			* 5.45998	30.60	RMS	35.30	-20.10	0.00	45.80	54.00	-8.20	-	-	111	266	H
			* 5.45606	31.95	RMS	35.30	-20.10	0.00	47.15	54.00	-6.85	-	-	111	266	H
			5.46998	31.22	RMS	35.30	-20.10	0.00	46.42	-	-	-	-	111	266	H
			5.46722	32.35	RMS	35.30	-20.10	0.00	47.55	-	-	-	-	111	266	H
			* 5.45998	41.42	Pk	35.30	-20.10	0.00	56.62	-	-	74.00	-17.38	81	103	V
			* 5.45556	43.01	Pk	35.30	-20.10	0.00	58.21	-	-	74.00	-15.79	81	103	V
			5.46998	40.12	Pk	35.30	-20.10	0.00	55.32	-	-	68.20	-12.88	81	103	V
			5.46510	42.80	Pk	35.30	-20.10	0.00	58.00	-	-	68.20	-10.20	81	103	V
			* 5.45998	30.32	RMS	35.30	-20.10	0.00	45.52	54.00	-8.48	-	-	81	103	V
			* 5.45526	31.27	RMS	35.30	-20.10	0.00	46.47	54.00	-7.53	-	-	81	103	V
			5.46998	30.79	RMS	35.30	-20.10	0.00	45.99	-	-	-	-	81	103	V
			5.46573	31.58	RMS	35.30	-20.10	0.00	46.78	-	-	-	-	81	103	V
	5570 Upper	MIMO	5.72501	39.64	Pk	35.70	-19.50	0.00	55.84	-	-	68.20	-12.36	110	267	H
			5.73828	40.73	Pk	35.70	-19.50	0.00	56.93	-	-	68.20	-11.27	110	267	H
			5.72501	37.96	Pk	35.70	-19.50	0.00	54.16	-	-	68.20	-14.04	84	100	V
			5.72962	41.07	Pk	35.70	-19.50	0.00	57.27	-	-	68.20	-10.93	84	100	V

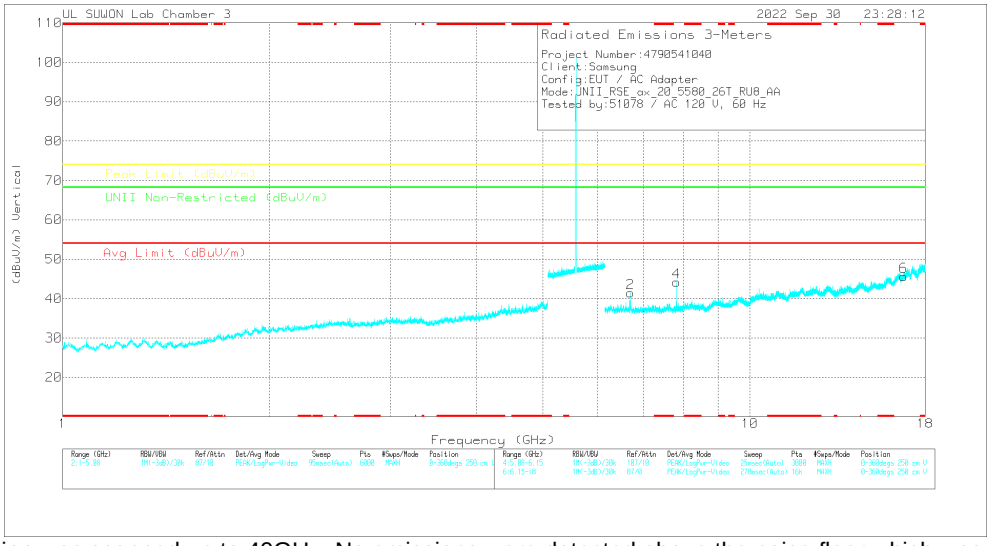
Note1. Pk - Peak detector, RMS - RMS detectior
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11ax HE20 8RU / 5580 MHz)

5580 MHz HORIZONTAL



5580 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.

5580 MHz DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	6GHz_HP(dB)	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 (Degs)	Height (cm)	Polarity
6.70405	43.37	PK-U	36.4	-26.8	0	52.97	-	-	-	-	68.2	-15.23	63	105	H
6.70391	42.03	PK-U	36.4	-26.8	0	51.63	-	-	-	-	68.2	-16.57	86	119	V
7.82013	44.16	PK-U	36.3	-24.3	0	56.16	-	-	-	-	68.2	-12.04	66	103	H
7.82067	42.91	PK-U	36.3	-24.3	0	54.91	-	-	-	-	68.2	-13.29	139	100	V
* 11.17707	48.25	PK-U	38.6	-21.4	0	65.45	-	-	74	-8.55	-	-	198	188	H
* 11.17705	33.51	ADR	38.6	-21.4	0	50.71	54	-3.29	-	-	-	-	198	188	H
16.73612	31.91	PK-U	42.3	-18.8	0	55.41	-	-	-	-	68.2	-12.79	0	100	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

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	6.602	41.50	PK-U	36.50	-26.30	0.00	51.70	-	-	-	-	68.20	-16.50	114	100	H
			6.598	40.31	PK-U	36.50	-26.30	0.00	50.51	-	-	-	-	68.20	-17.69	96	175	V
			* 11.00236	43.12	PK-U	38.50	-21.20	0.00	60.42	-	-	74.00	-13.58	-	-	185	190	H
			* 11.00224	31.50	ADR	38.50	-21.20	0.17	48.97	54.00	-5.03	-	-	-	-	185	190	H
			* 11.00532	36.25	PK-U	38.50	-21.20	0.00	53.55	-	-	74.00	-20.45	-	-	168	396	V
			* 11.00009	25.02	ADR	38.50	-21.20	0.17	42.49	54.00	-11.51	-	-	-	-	168	396	V
			16.498	32.84	PK-U	42.00	-19.30	0.00	55.54	-	-	-	-	68.20	-12.66	0	100	H
			16.500	32.63	PK-U	42.00	-19.20	0.00	55.43	-	-	-	-	68.20	-12.77	0	100	V
	5580	MIMO	6.691	42.39	PK-U	36.40	-26.80	0.00	51.99	-	-	-	-	68.20	-16.21	113	268	H
			6.699	39.93	PK-U	36.40	-26.80	0.00	49.53	-	-	-	-	68.20	-18.67	93	158	V
			* 11.16252	45.36	PK-U	38.60	-21.50	0.00	62.46	-	-	74.00	-11.54	-	-	190	195	H
			* 11.1622	32.65	ADR	38.60	-21.50	0.17	49.92	54.00	-4.08	-	-	-	-	190	195	H
			* 11.16206	36.39	PK-U	38.60	-21.50	0.00	53.49	-	-	74.00	-20.51	-	-	138	120	V
			* 11.16003	24.60	ADR	38.60	-21.50	0.17	41.87	54.00	-12.13	-	-	-	-	138	120	V
			16.744	31.26	PK-U	42.30	-18.80	0.00	54.76	-	-	-	-	68.20	-13.44	0	100	H
			16.737	32.10	PK-U	42.30	-18.80	0.00	55.60	-	-	-	-	68.20	-12.60	0	100	V
	5700	MIMO	8.551	34.80	PK-U	36.50	-22.90	0.00	48.40	-	-	-	-	68.20	-19.80	0	100	H
			8.548	34.90	PK-U	36.50	-22.90	0.00	48.50	-	-	-	-	68.20	-19.70	0	100	V
			* 11.40237	42.75	PK-U	38.60	-21.40	0.00	59.95	-	-	74.00	-14.05	-	-	187	190	H
			* 11.40195	30.14	ADR	38.60	-21.40	0.17	47.51	54.00	-6.49	-	-	-	-	187	190	H
			* 11.40192	36.23	PK-U	38.60	-21.40	0.00	53.43	-	-	74.00	-20.57	-	-	138	101	V
			* 11.40178	24.33	ADR	38.60	-21.40	0.17	41.70	54.00	-12.30	-	-	-	-	138	101	V
			17.100	32.03	PK-U	42.30	-17.90	0.00	56.43	-	-	-	-	68.20	-11.77	0	100	H
			17.105	31.43	PK-U	42.30	-18.00	0.00	55.73	-	-	-	-	68.20	-12.47	0	100	V
	5720	MIMO	8.588	33.87	PK-U	36.50	-23.10	0.00	47.27	-	-	-	-	68.20	-20.93	0	100	H
			8.570	34.01	PK-U	36.50	-22.90	0.00	47.61	-	-	-	-	68.20	-20.59	0	100	V
			* 11.44179	39.31	PK-U	38.60	-21.30	0.00	56.61	-	-	74.00	-17.39	-	-	227	189	H
			* 11.44194	26.72	ADR	38.60	-21.30	0.17	44.19	54.00	-9.81	-	-	-	-	227	189	H
			* 11.44662	33.23	PK-U	38.60	-21.30	0.00	50.53	-	-	74.00	-23.47	-	-	0	100	V
			17.176	32.67	PK-U	42.10	-17.90	0.00	56.87	-	-	-	-	68.20	-11.33	0	100	H
			17.154	32.77	PK-U	42.20	-18.00	0.00	56.97	-	-	-	-	68.20	**-11.23**	0	100	V
802.11n (HT20) Spot-Check	5580	MIMO	6.690	41.10	PK-U	36.40	-26.80	0.00	50.70	-	-	-	-	68.20	-17.50	113	103	H
			6.697	39.82	PK-U	36.40	-26.80	0.00	49.42	-	-	-	-	68.20	-18.78	92	100	V
			* 11.1535	45.29	PK-U	38.60	-21.50	0.00	62.39	-	-	74.00	-11.61	-	-	188	197	H
			* 11.16374	33.13	ADR	38.60	-21.50	0.17	50.40	54.00	-3.60	-	-	-	-	188	197	H
			* 11.16586	39.05	PK-U	38.60	-21.50	0.00	56.15	-	-	74.00	-17.85	-	-	187	101	V
			* 11.16501	26.03	ADR	38.60	-21.50	0.17	43.30	54.00	-10.70	-	-	-	-	187	101	V
			16.747	32.04	PK-U	42.30	-18.80	0.00	55.54	-	-	-	-	68.20	-12.66	0	100	H
			16.739	31.91	PK-U	42.30	-18.80	0.00	55.41	-	-	-	-	68.20	-12.79	0	100	V
802.11n (HT40) Spot-Check	5590	MIMO	6.712	40.65	PK-U	36.40	-26.80	0.00	50.25	-	-	-	-	68.20	-17.95	63	102	H
			6.717	39.06	PK-U	36.40	-26.80	0.00	48.66	-	-	-	-	68.20	-19.54	86	100	V
			* 11.17546	42.52	PK-U	38.60	-21.40	0.00	59.72	-	-	74.00	-14.28	-	-	200	185	H
			* 11.18285	31.16	ADR	38.60	-21.30	0.24	48.70	54.00	-5.30	-	-	-	-	200	185	H
			* 11.17602	35.44	PK-U	38.60	-21.40	0.00	52.64	-	-	74.00	-21.36	-	-	189	100	V
			* 11.17682	24.29	ADR	38.60	-21.40	0.24	41.73	54.00	-12.27	-	-	-	-	189	100	V
			16.753	31.95	PK-U	42.40	-18.70	0.00	55.65	-	-	-	-	68.20	-12.55	0	100	H
			16.793	31.22	PK-U	42.40	-18.40	0.00	55.22	-	-	-	-	68.20	-12.98	0	100	V
802.11ac (VHT80) Spot-Check	5610	MIMO	* 8.413	35.41	PK-U	36.30	-23.40	0.00	48.31	-	-	74.00	-25.69	-	-	0	100	H
			* 8.42138	34.99	PK-U	36.30	-23.30	0.00	47.99	-	-	74.00	-26.01	-	-	0	100	V
			* 11.22808	39.35	PK-U	38.60	-21.30	0.00	56.65	-	-	74.00	-17.35	-	-	199	182	H
			* 11.22788	26.67	ADR	38.60	-21.30	0.24	44.21	54.00	-9.79	-	-	-	-	199	182	H
			* 11.22516	33.92	PK-U	38.60	-21.30	0.00	51.22	-	-	74.00	-22.78	-	-	0	100	V
			16.835	31.47	PK-U	42.40	-18.40	0.00	55.47	-	-	-	-	68.20	-12.73	0	100	H
			16.828	31.47	PK-U	42.40	-18.40	0.00	55.47	-	-	-	-	68.20	-12.73	0	100	V
802.11ac (VHT160) Spot-Check	5570	MIMO	* 8.35955	35.53	PK-U	36.20	-23.60	0.00	48.13	-	-	74.00	-25.87	-	-	360	100	H
			* 8.35567	35.87	PK-U	36.20	-23.70	0.00	48.37	-	-	74.00	-25.63	-	-	360	100	V
			* 11.15647	38.87	PK-U	38.60	-21.40	0.00	56.07	-	-	74.00	-17.93	-	-	194	191	H
			* 11.16366	24.93	ADR	38.60	-21.50	0.31	42.34	54.00	-11.66	-	-	-	-	194	191	H
			* 11.1495	34.48	PK-U	38.50	-21.50	0.00	51.48	-	-	74.00	-22.52	-	-	360	100	V
			16.702	32.02	PK-U	42.30	-19.00	0.00	55.32	-	-	-	-	68.20	-12.88	360	100	H
			16.716	32.01	PK-U	42.30	-18.90	0.00	55.41	-	-	-	-	68.20	-12.79	360	100	V

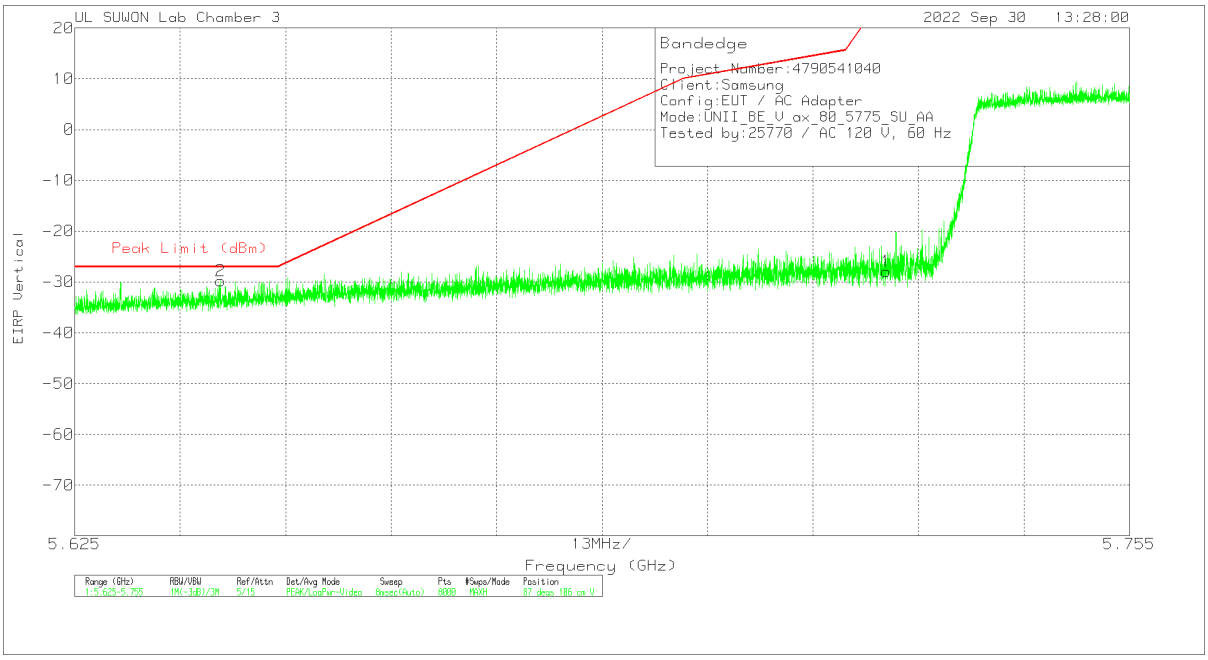
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax (HE20) 8RU	5500	MIMO	6.608	43.32	PK-U	36.50	-26.30	0.00	53.52	-	-	-	-	68.20	-14.68	110	249	H
			6.608	39.71	PK-U	36.50	-26.30	0.00	49.91	-	-	-	-	68.20	-18.29	92	146	V
			* 7.7082	43.73	PK-U	36.20	-25.10	0.00	54.83	-	-	74.00	-19.17	-	-	66	104	H
			* 7.70854	33.27	ADR	36.20	-25.10	0.00	44.37	54.00	-9.63	-	-	-	-	66	104	H
			* 7.70856	42.50	PK-U	36.20	-25.10	0.00	53.60	-	-	74.00	-20.40	-	-	148	100	V
			* 7.70848	32.36	ADR	36.20	-25.10	0.00	43.46	54.00	-10.54	-	-	-	-	148	100	V
			* 11.01605	46.25	PK-U	38.50	-21.20	0.00	63.55	-	-	74.00	-10.45	-	-	188	172	H
			* 11.01707	31.62	ADR	38.50	-21.30	0.00	48.82	54.00	-5.18	-	-	-	-	188	172	H
			16.498	33.04	PK-U	42.00	-19.30	0.00	55.74	-	-	-	-	68.20	-12.46	0	100	V
802.11ax (HE20) 8RU	5580	MIMO	6.704	43.37	PK-U	36.40	-26.80	0.00	52.97	-	-	-	-	68.20	-15.23	63	105	H
			6.704	42.03	PK-U	36.40	-26.80	0.00	51.63	-	-	-	-	68.20	-16.57	86	119	V
			7.820	44.16	PK-U	36.30	-24.30	0.00	56.16	-	-	-	-	68.20	-12.04	66	103	H
			7.821	42.91	PK-U	36.30	-24.30	0.00	54.91	-	-	-	-	68.20	-13.29	139	100	V
			* 11.17707	48.25	PK-U	38.60	-21.40	0.00	65.45	-	-	74.00	**-8.55**	-	-	198	188	H
			* 11.17705	33.51	ADR	38.60	-21.40	0.00	50.71	54.00	**-3.29**	-	-	-	-	198	188	H
			16.736	31.91	PK-U	42.30	-18.80	0.00	55.41	-	-	-	-	68.20	-12.79	0	100	V
802.11ax (HE20) 8RU	5700	MIMO	6.831	40.17	PK-U	36.20	-26.60	0.00	49.77	-	-	-	-	68.20	-18.43	67	105	H
			8.555	34.87	PK-U	36.50	-22.90	0.00	48.47	-	-	-	-	68.20	-19.73	360	100	V
			* 11.41589	44.26	PK-U	38.60	-21.50	0.00	61.36	-	-	74.00	-12.64	-	-	212	190	H
			* 11.41667	29.35	ADR	38.60	-21.50	0.00	46.45	54.00	-7.55	-	-	-	-	212	190	H
			* 11.40413	32.99	PK-U	38.60	-21.40	0.00	50.19	-	-	74.00	-23.81	-	-	360	100	V
			17.093	31.50	PK-U	42.30	-18.00	0.00	55.80	-	-	-	-	68.20	-12.40	360	100	H
			17.103	31.66	PK-U	42.30	-18.00	0.00	55.96	-	-	-	-	68.20	-12.24	360	100	V
802.11ax (HE40) 17RU Spot-Check	5590	MIMO	6.690	44.48	PK-U	36.40	-26.80	0.00	54.08	-	-	-	-	68.20	-14.12	113	254	H
			6.726	41.99	PK-U	36.40	-26.80	0.00	51.59	-	-	-	-	68.20	-16.61	114	252	H
			7.843	36.92	PK-U	36.30	-24.20	0.00	49.02	-	-	-	-	68.20	-19.18	67	110	H
			* 11.21327	33.74	PK-U	38.60	-21.30	0.00	51.04	-	-	74.00	-22.96	-	-	202	192	H
			* 11.21025	22.32	ADR	38.60	-21.30	0.09	39.71	54.00	-14.29	-	-	-	-	202	192	H
			6.690	41.94	PK-U	36.40	-26.80	0.00	51.54	-	-	-	-	68.20	-16.66	111	100	V
			6.726	40.28	PK-U	36.40	-26.80	0.00	49.88	-	-	-	-	68.20	-18.32	107	100	V
			7.843	36.71	PK-U	36.30	-24.20	0.00	48.81	-	-	-	-	68.20	-19.39	144	100	V
			* 11.21819	33.64	PK-U	38.60	-21.30	0.00	50.94	-	-	74.00	-23.06	-	-	29	164	V
			* 11.21825	22.38	ADR	38.60	-21.30	0.09	39.77	54.00	-14.23	-	-	-	-	29	164	V
802.11ax (HE80) 36RU Spot-Check	5610	MIMO	6.694	41.51	PK-U	36.40	-26.80	0.00	51.11	-	-	-	-	68.20	-17.09	66	106	H
			6.694	40.27	PK-U	36.40	-26.80	0.00	49.87	-	-	-	-	68.20	-18.33	86	160	V
			6.770	42.86	PK-U	36.40	-27.00	0.00	52.26	-	-	-	-	68.20	-15.94	67	110	H
			6.770	42.02	PK-U	36.40	-27.00	0.00	51.42	-	-	-	-	68.20	-16.78	93	155	V
			7.892	41.69	PK-U	36.30	-23.90	0.00	54.09	-	-	-	-	68.20	-14.11	68	108	H
			7.891	41.86	PK-U	36.30	-23.90	0.00	54.26	-	-	-	-	68.20	-13.94	148	101	V
			* 11.29496	47.24	PK-U	38.60	-21.50	0.00	64.34	-	-	74.00	-9.66	-	-	211	185	H
			* 11.29606	32.72	ADR	38.60	-21.50	0.00	49.82	54.00	-4.18	-	-	-	-	211	185	H
			* 11.29544	40.01	PK-U	38.60	-21.50	0.00	57.11	-	-	74.00	-16.89	-	-	142	104	V
			* 11.29544	25.83	ADR	38.60	-21.50	0.00	42.93	54.00	-11.07	-	-	-	-	142	104	V
802.11ax (HE160) 0RU Spot-Check	5570 Lower	MIMO	6.606	44.98	PK-U	36.50	-26.30	0.00	55.18	-	-	-	-	68.20	-13.02	113	249	H
			6.606	42.12	PK-U	36.50	-26.30	0.00	52.32	-	-	-	-	68.20	-15.88	87	127	V
			* 7.71981	44.76	PK-U	36.20	-25.10	0.00	55.86	-	-	74.00	-18.14	-	-	69	241	H
			* 7.7195	34.11	ADR	36.20	-25.10	0.00	45.21	54.00	-8.79	-	-	-	-	69	241	H
			* 7.72032	44.00	PK-U	36.20	-25.10	0.00	55.10	-	-	74.00	-18.90	-	-	152	100	V
			* 7.71998	33.45	ADR	36.20	-25.10	0.00	44.55	54.00	-9.45	-	-	-	-	152	100	V
			* 10.98424	43.91	PK-U	38.50	-21.20	0.00	61.21	-	-	74.00	-12.79	-	-	207	197	H
			* 10.98352	29.08	ADR	38.50	-21.20	0.00	46.38	54.00	-7.62	-	-	-	-	207	197	H
			* 10.98302	36.46	PK-U	38.50	-21.20	0.00	53.76	-	-	74.00	-20.24	-	-	183	108	V
			* 10.98404	22.87	ADR	38.50	-21.20	0.00	40.17	54.00	-13.83	-	-	-	-	183	108	V
			16.709	32.26	PK-U	42.30	-19.00	0.00	55.56	-	-	-	-	68.20	-12.64	0	100	H

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

11.4. TX ABOVE 1GHz 2Tx MODE IN THE 5.8 GHz BAND

BANDEDGE (WORST CASE: 802.11ax HE80 SU / 5775 MHz)

VERTICAL PEAK DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00218957	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-55.84	Pk	35.6	-19.5	11.8	0	-27.94	27	-54.94	87	106	V
2	5.64297	-57.23	Pk	35.5	-19.8	11.8	0	-29.73	-27	-2.73	87	106	V

Pk - Peak detector