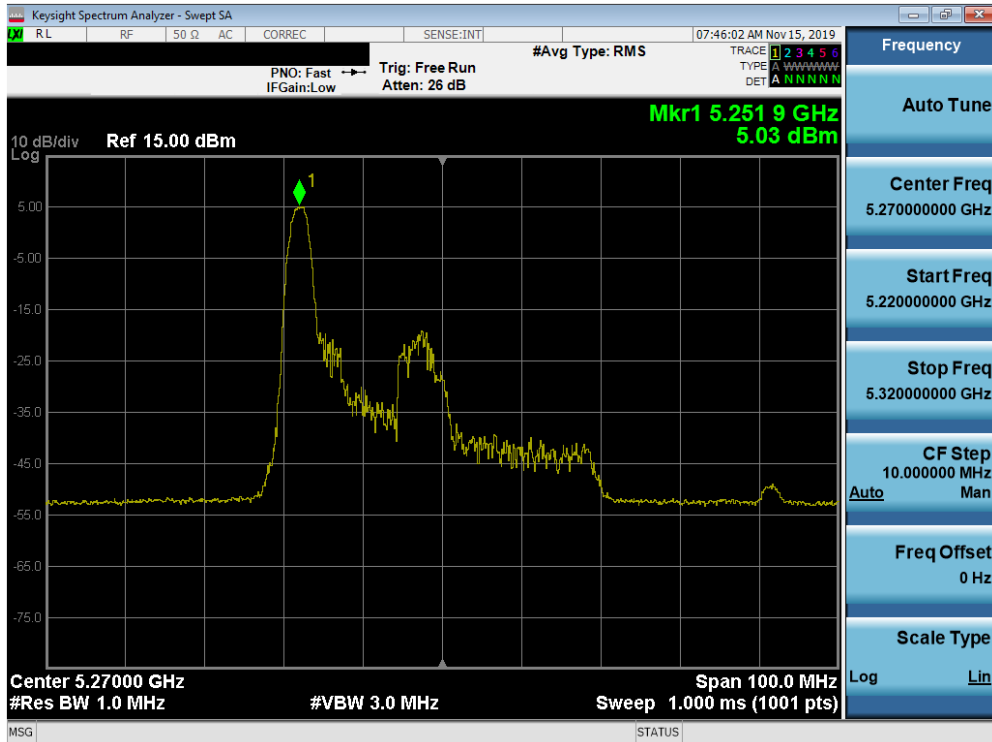
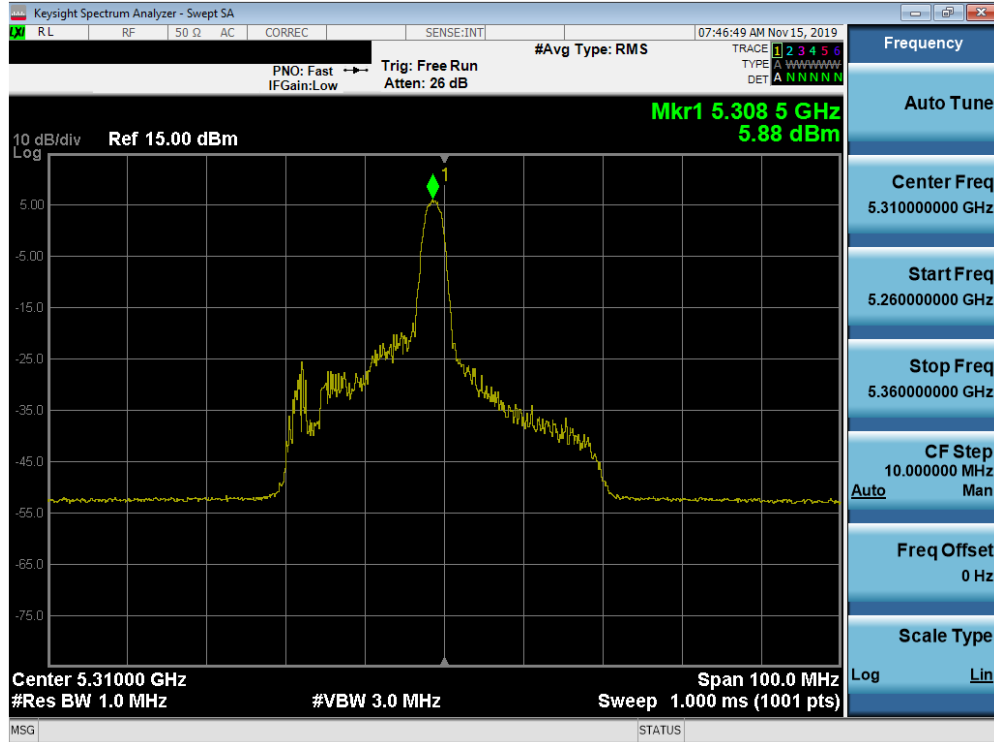


Plot 7-225. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

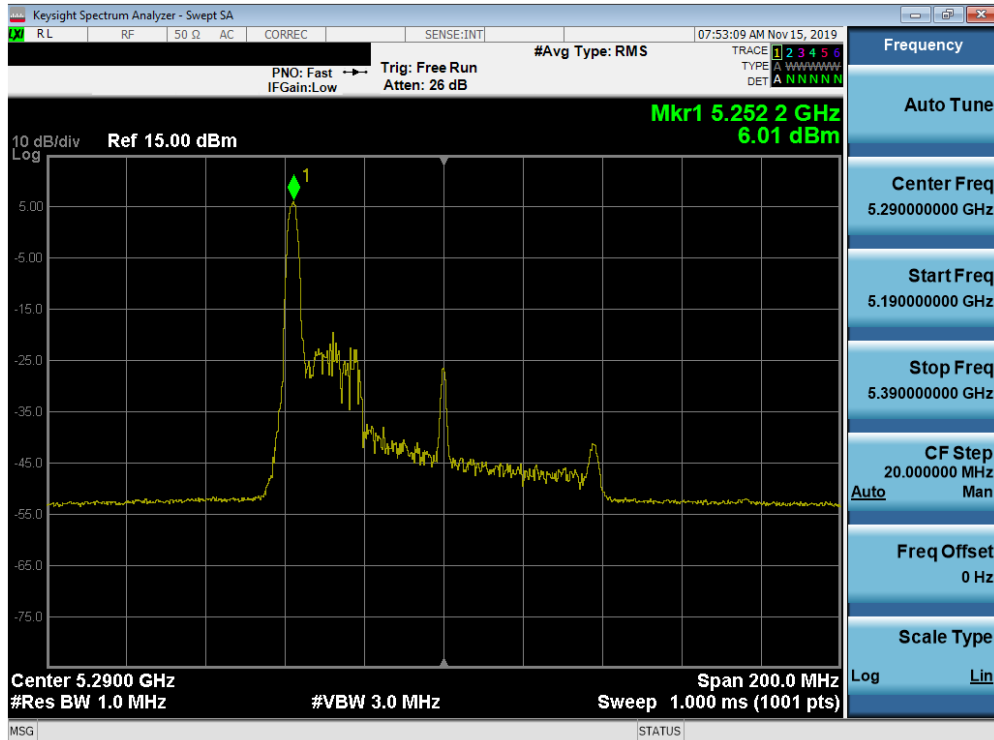


Plot 7-226. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 163 of 265

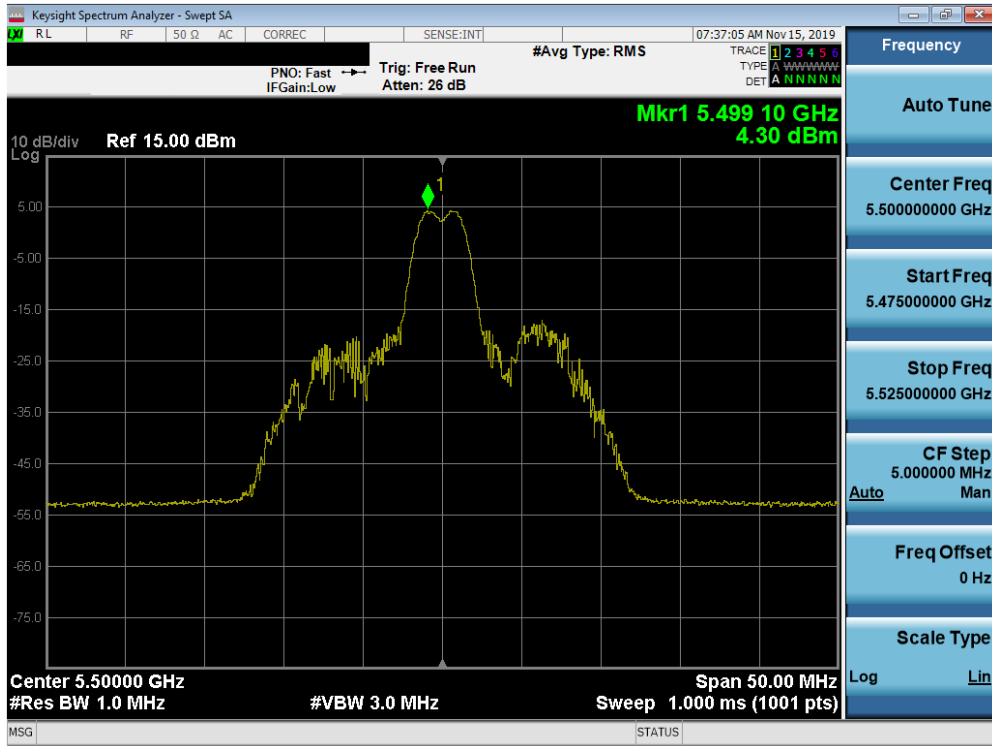


Plot 7-227. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

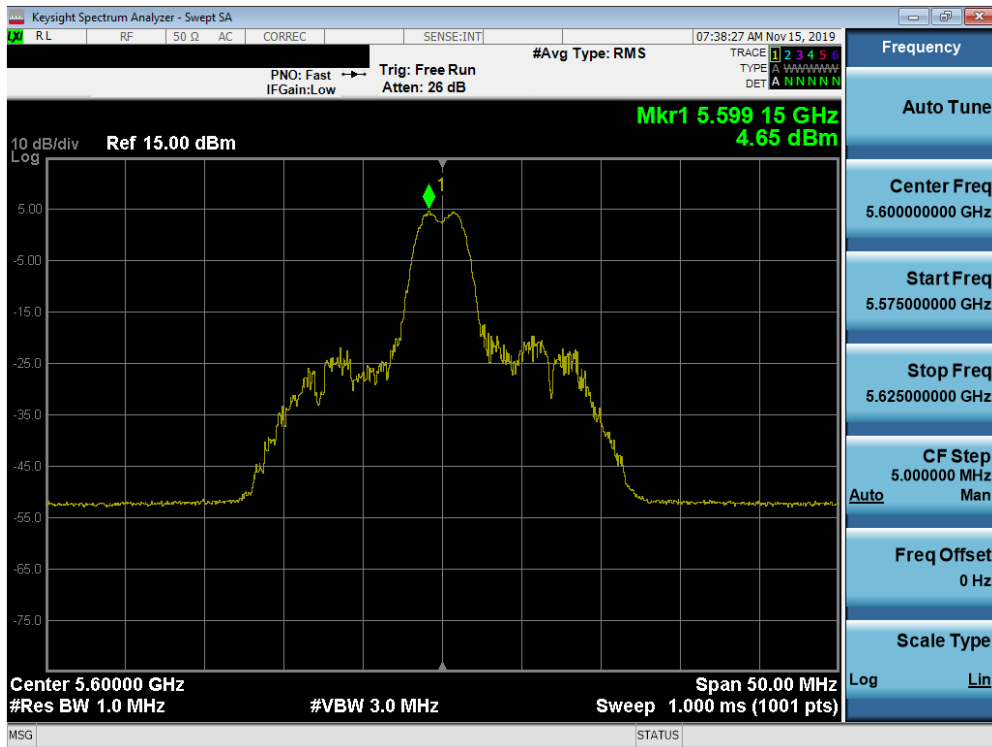


Plot 7-228. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 164 of 265

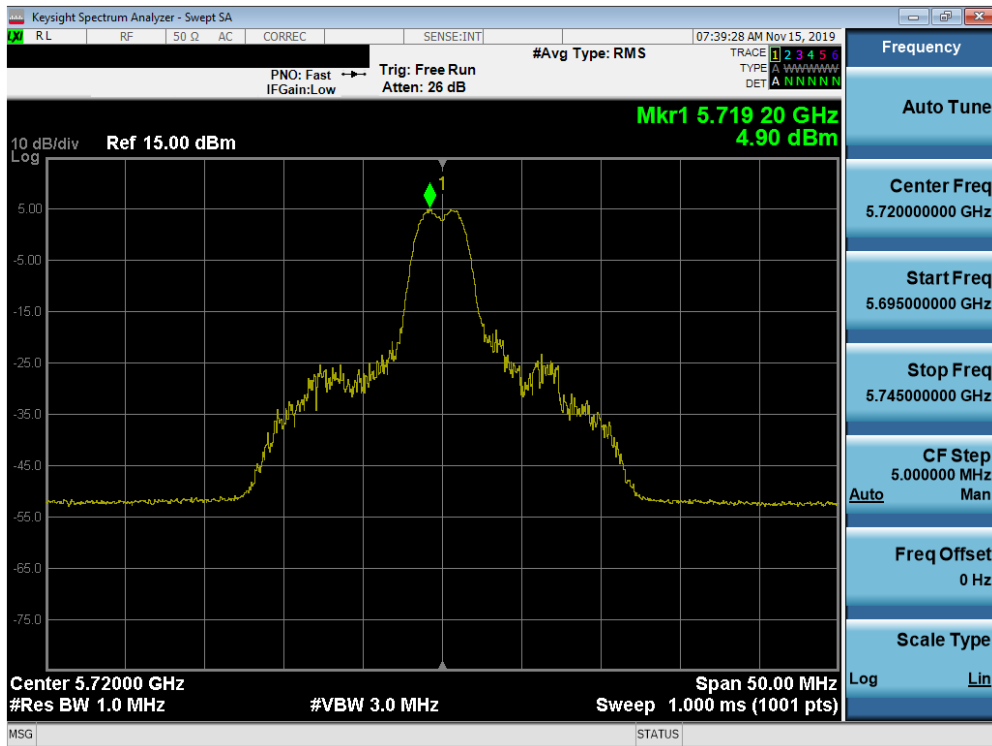


Plot 7-229. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

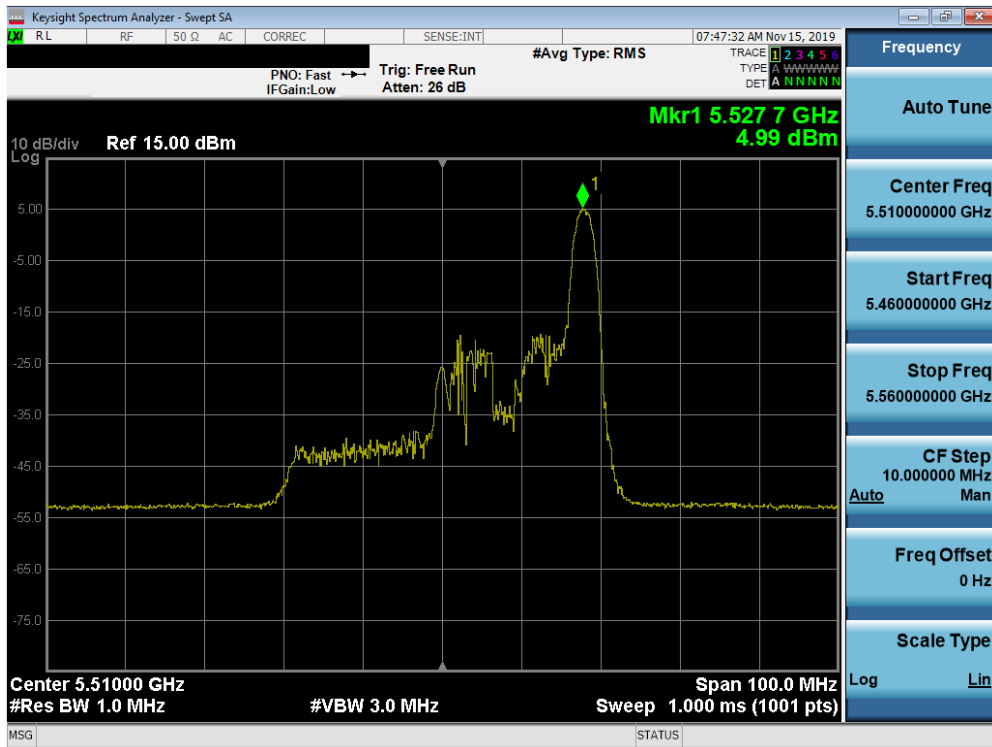


Plot 7-230. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 165 of 265

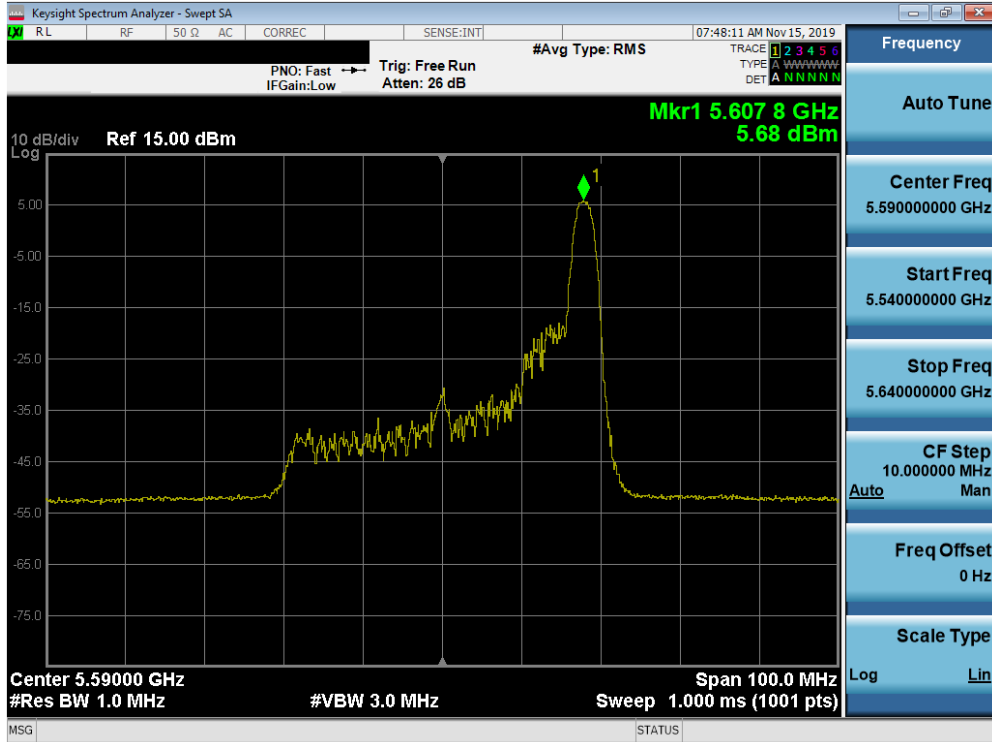


Plot 7-231. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

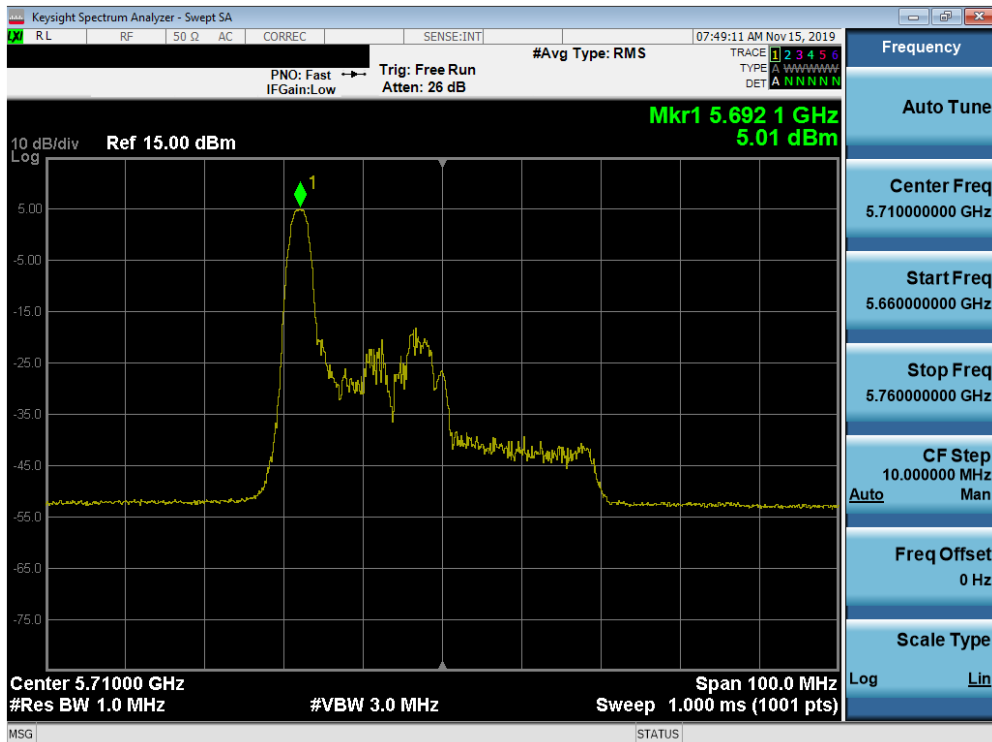


Plot 7-232. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 166 of 265

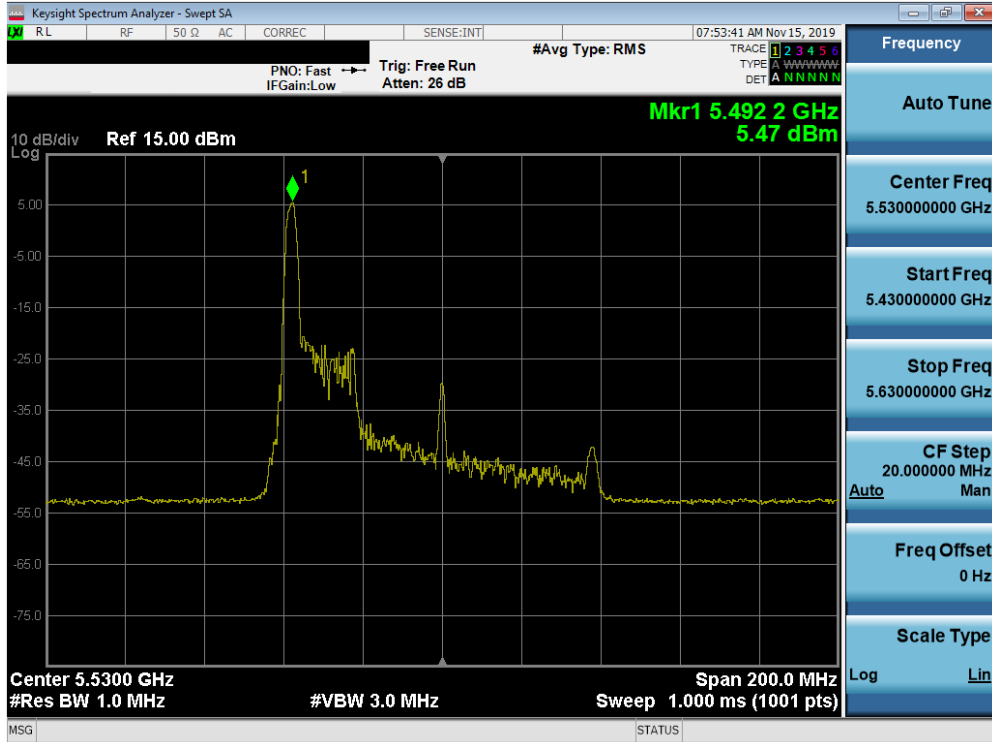


Plot 7-233. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

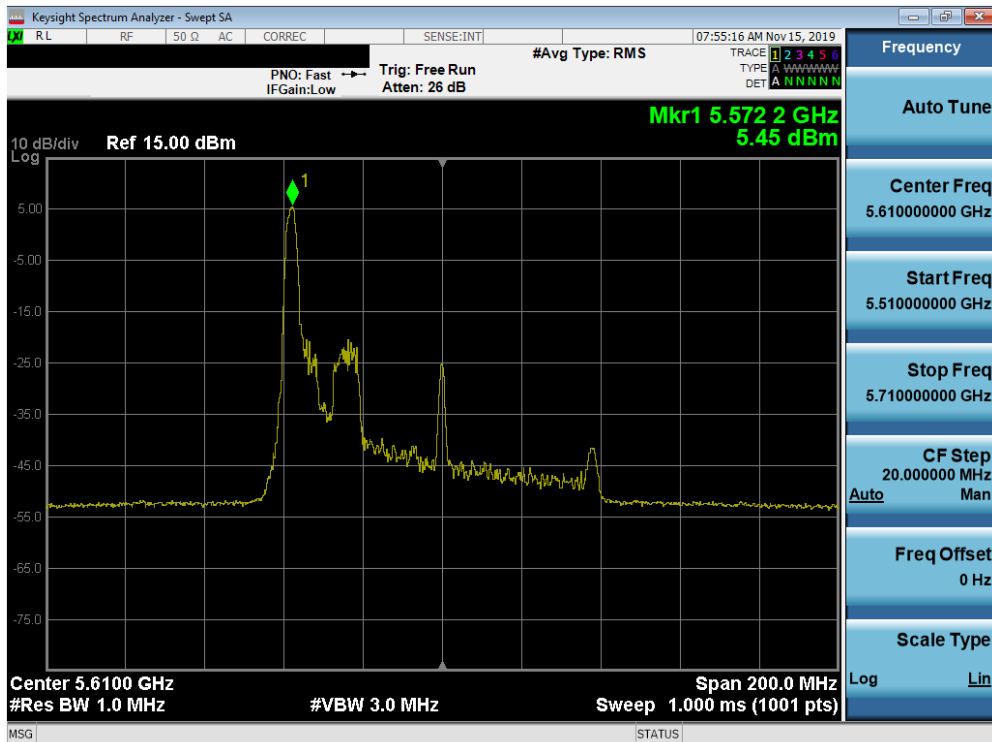


Plot 7-234. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 167 of 265

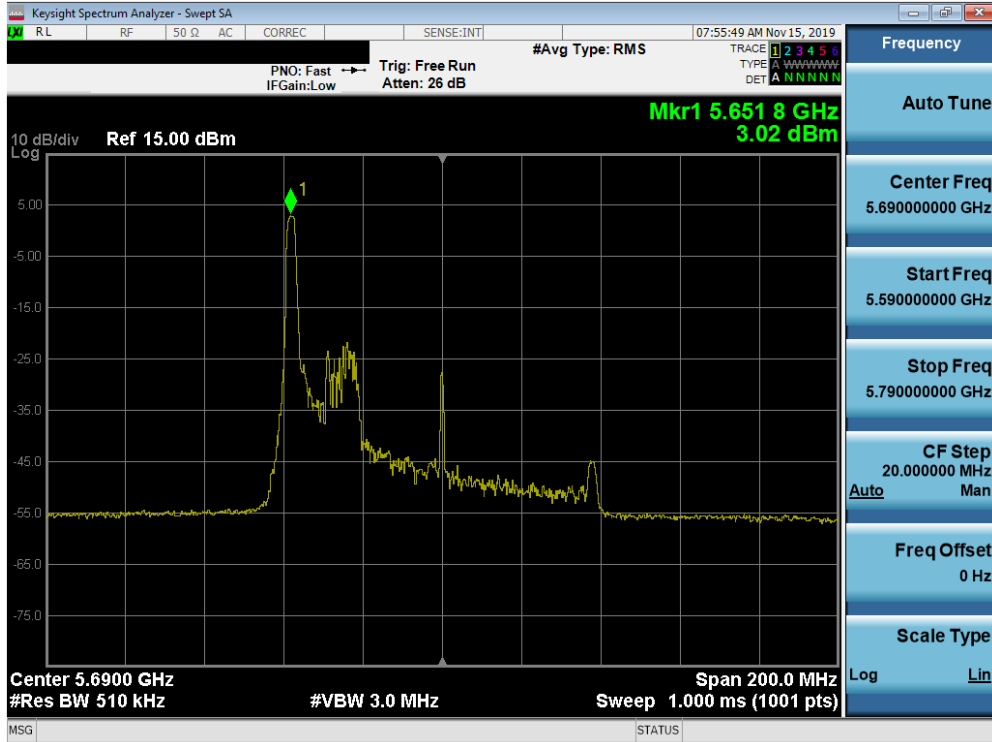


Plot 7-235. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

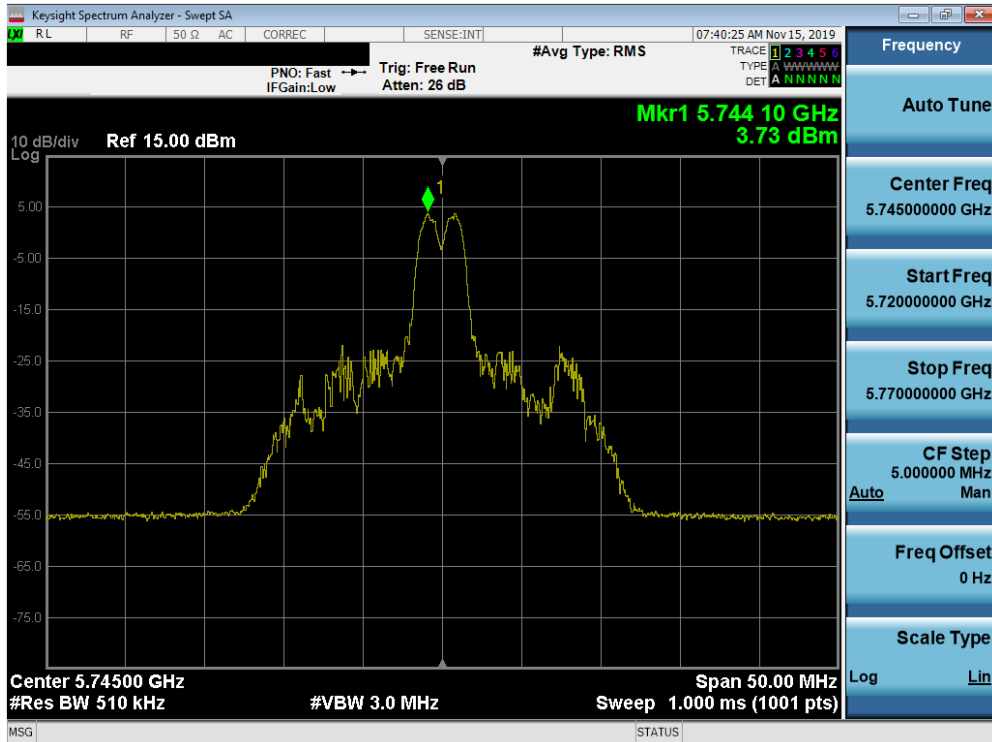


Plot 7-236. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 168 of 265

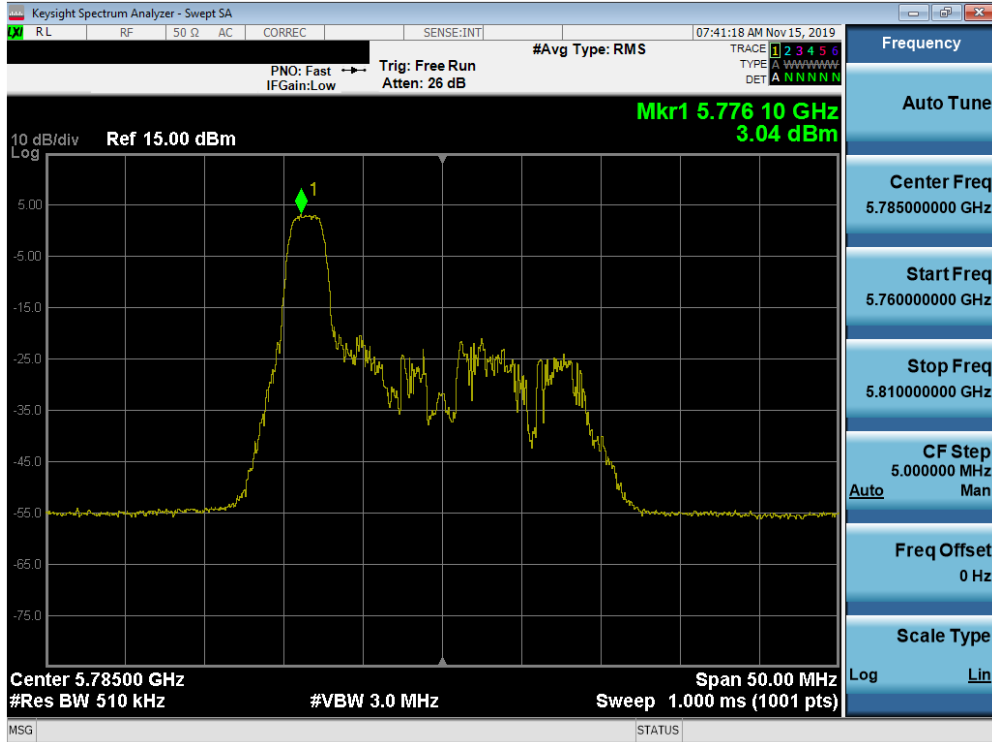


Plot 7-237. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

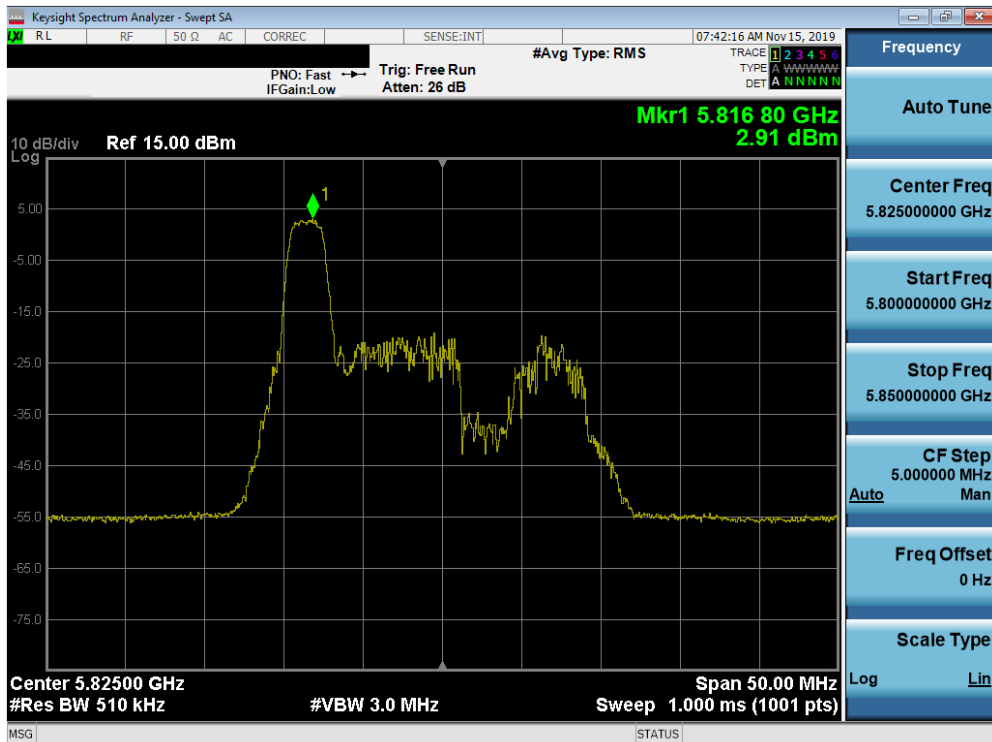


Plot 7-238. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 169 of 265

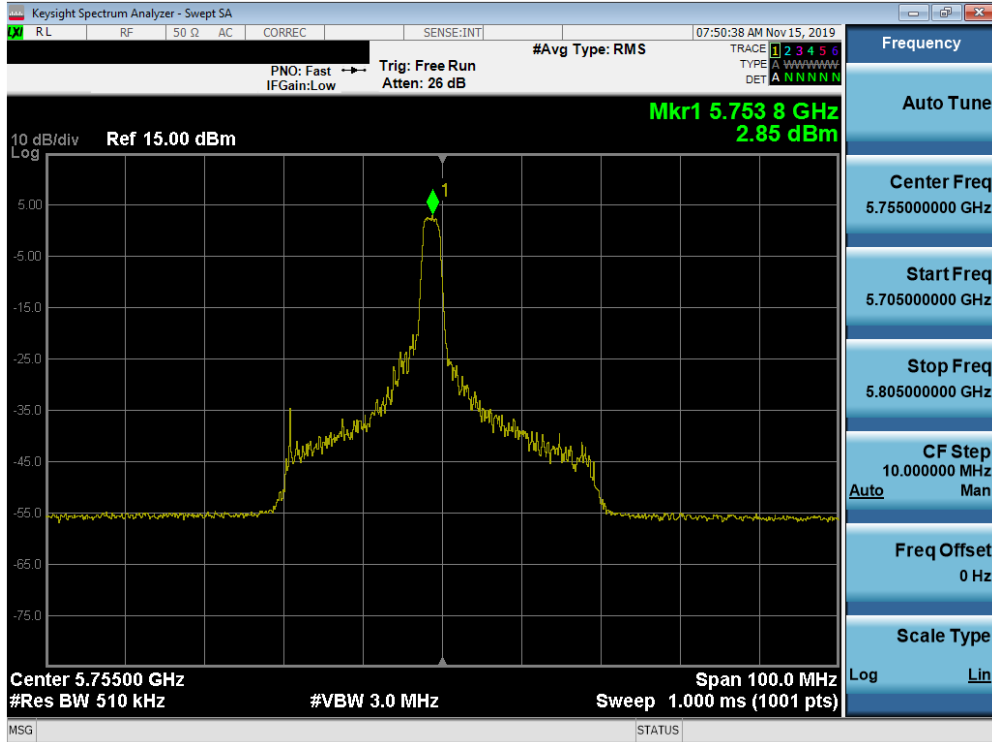


Plot 7-239. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

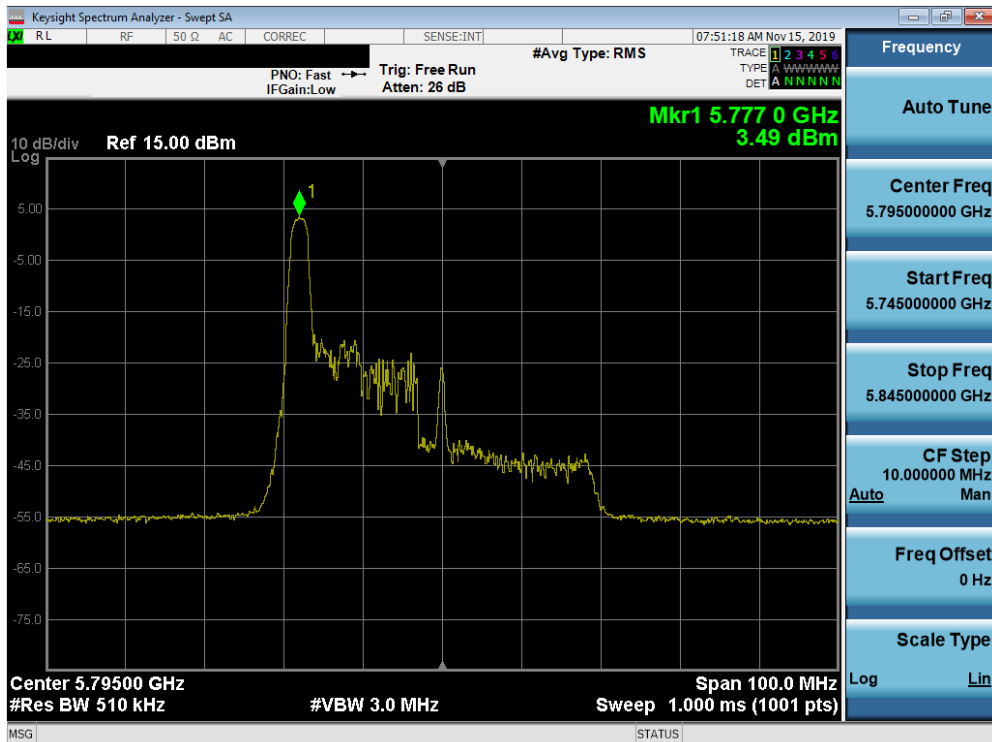


Plot 7-240. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 170 of 265

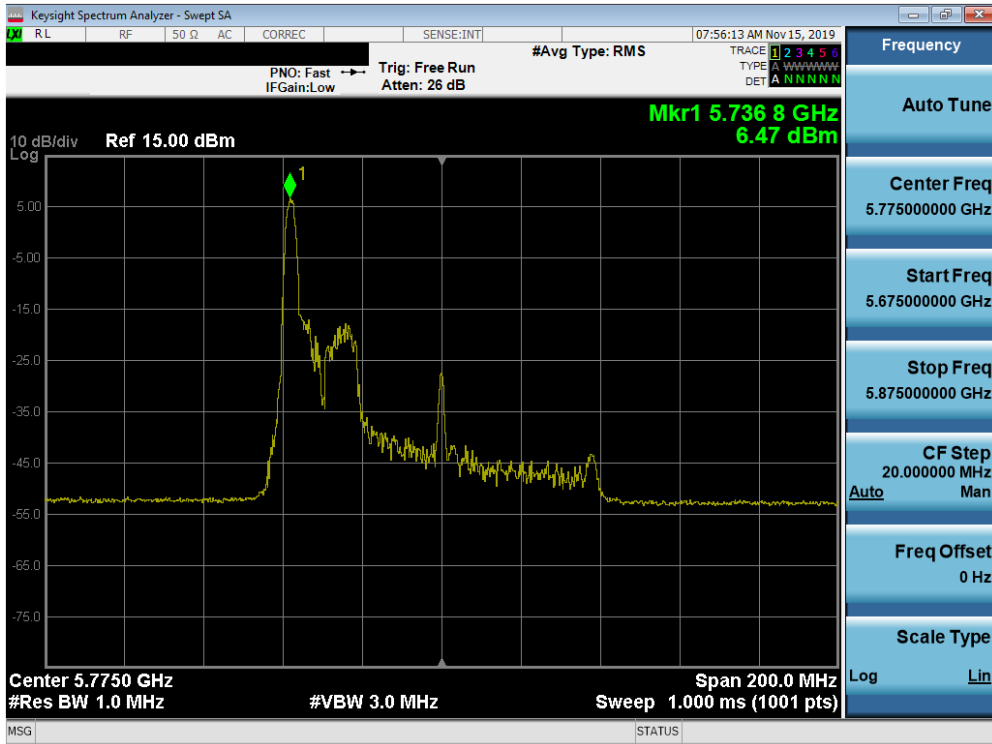


Plot 7-241. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

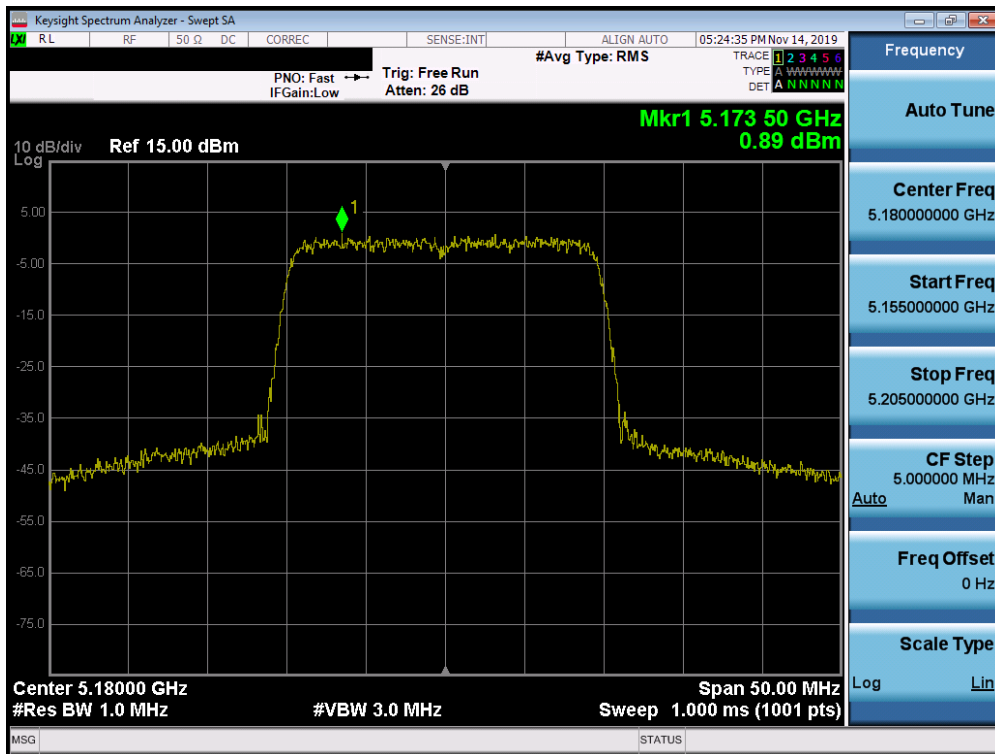


Plot 7-242. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 171 of 265

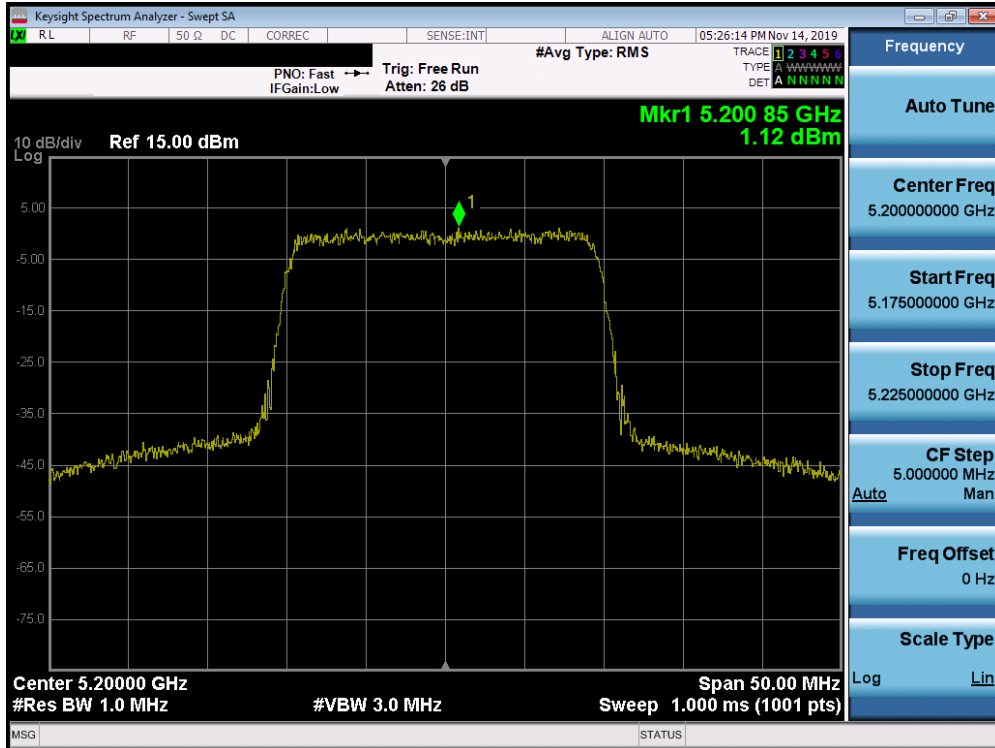


Plot 7-243. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

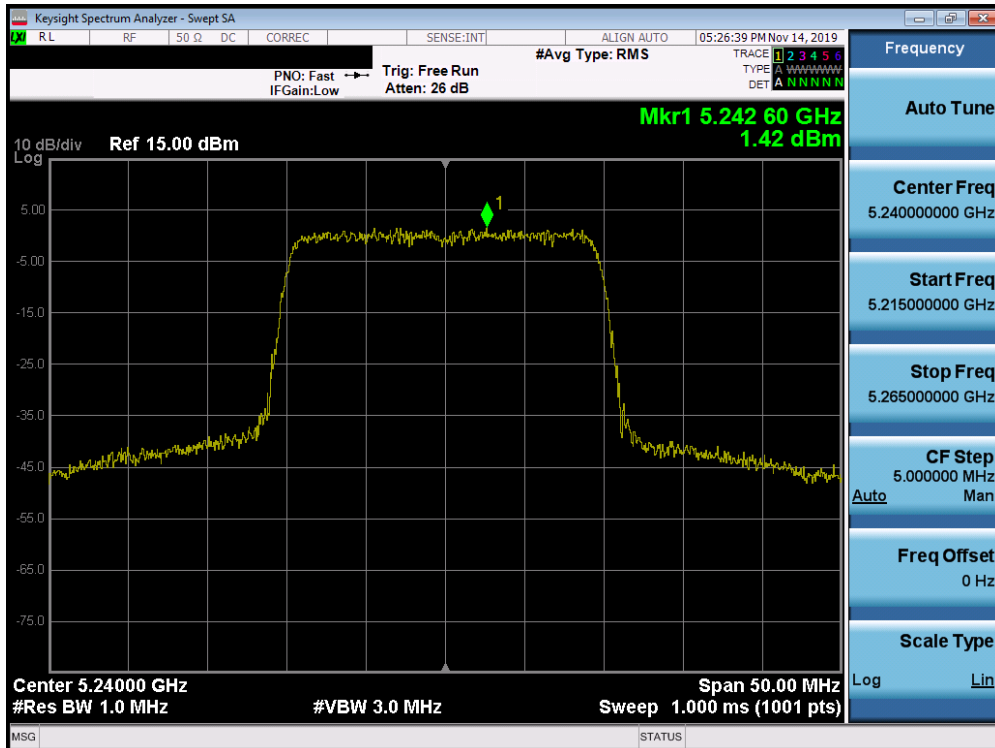


Plot 7-244. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 172 of 265

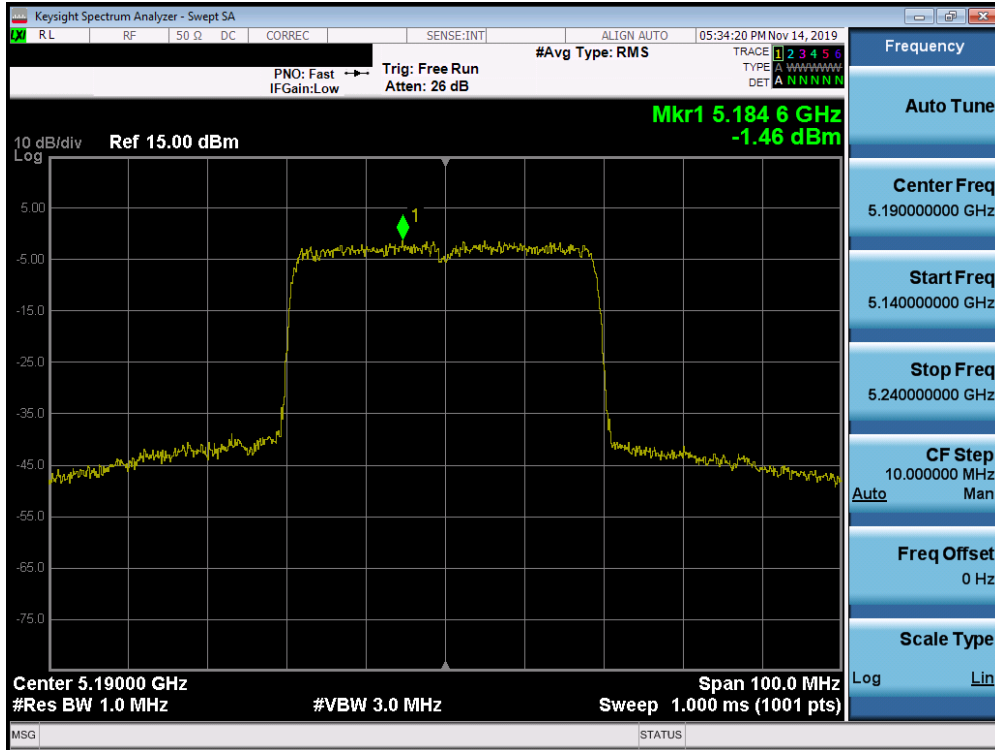


Plot 7-245. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

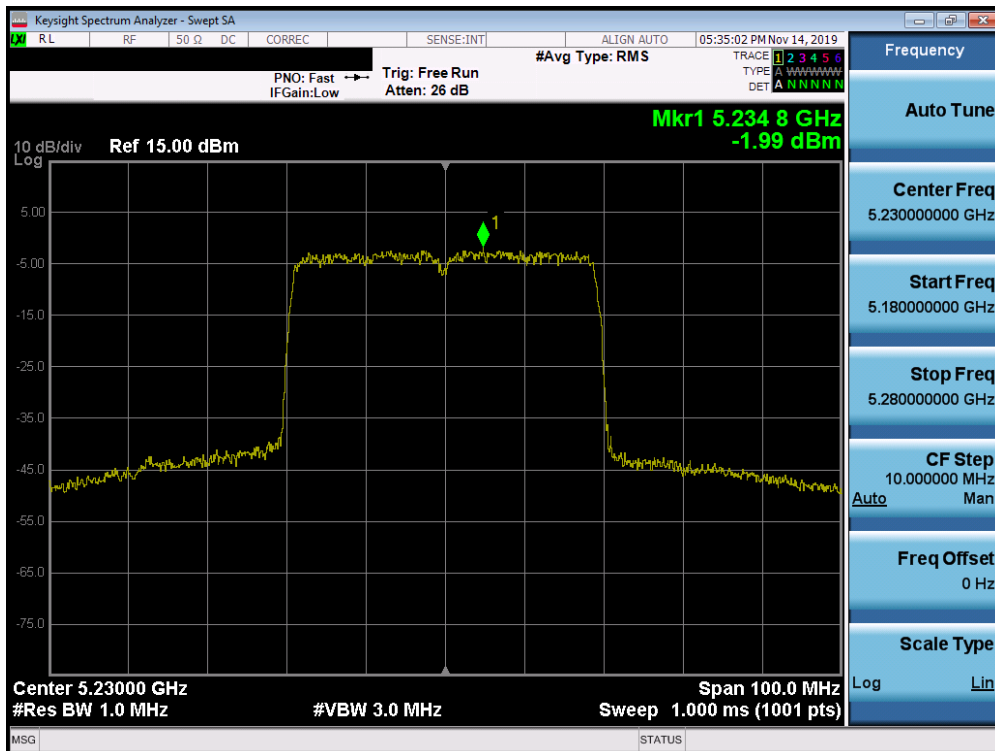


Plot 7-246. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 173 of 265

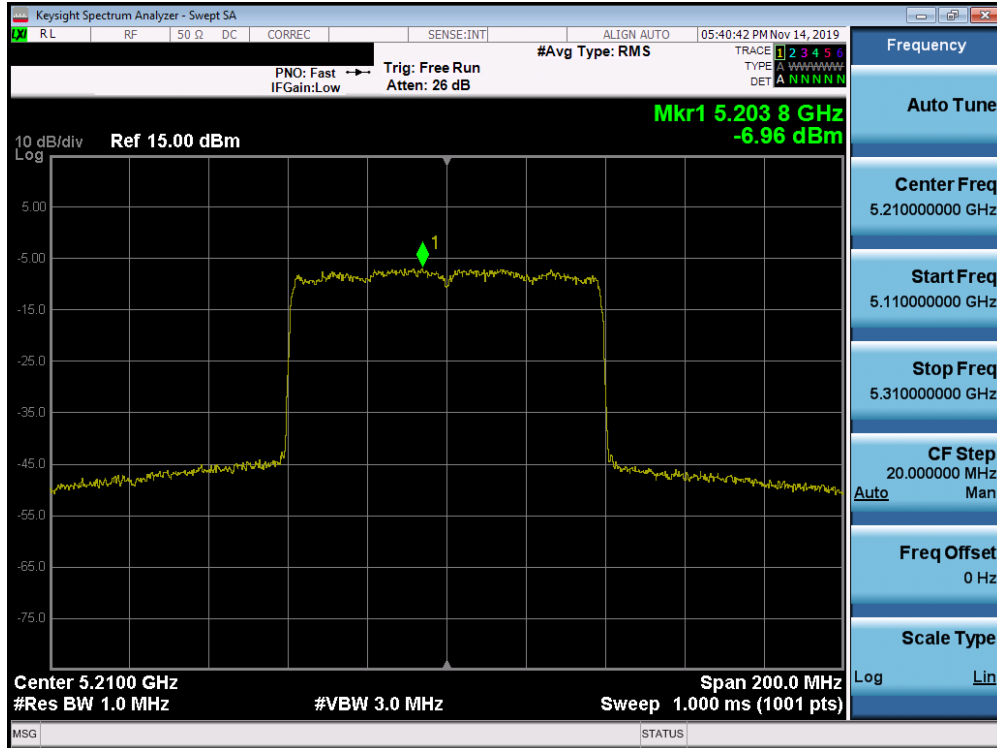


Plot 7-247. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

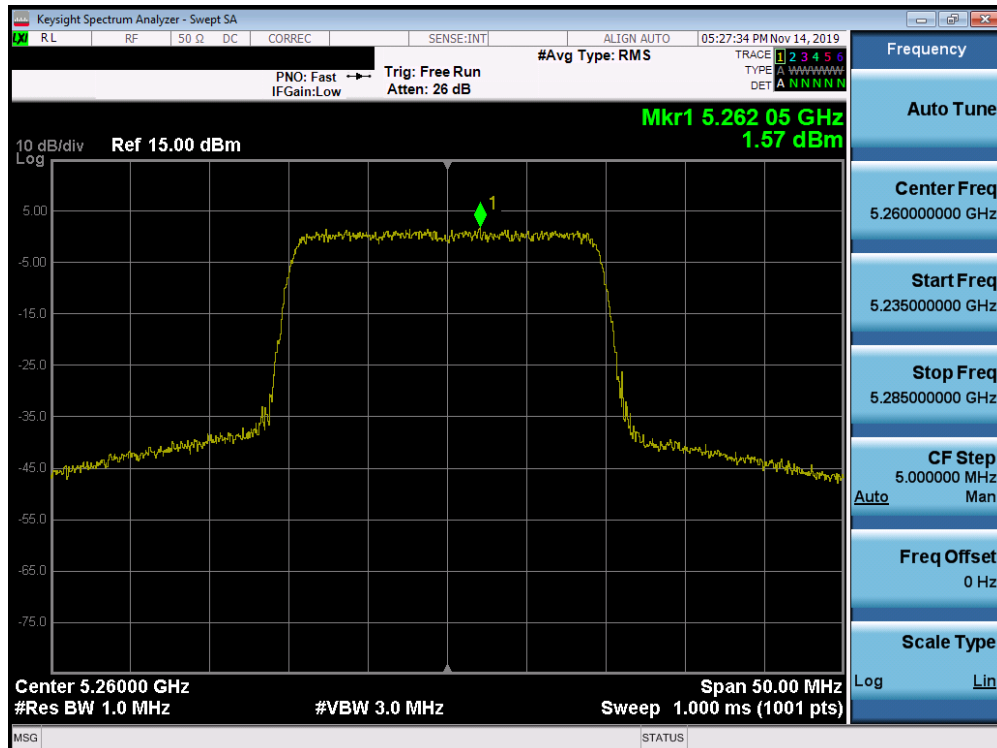


Plot 7-248. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 174 of 265

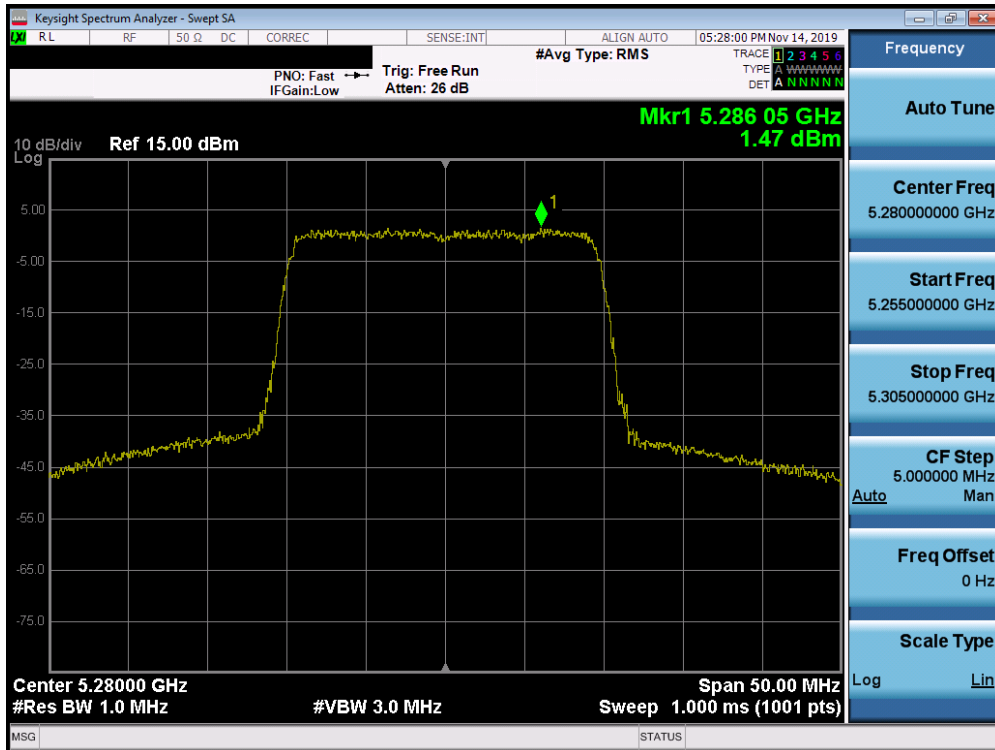


Plot 7-249. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

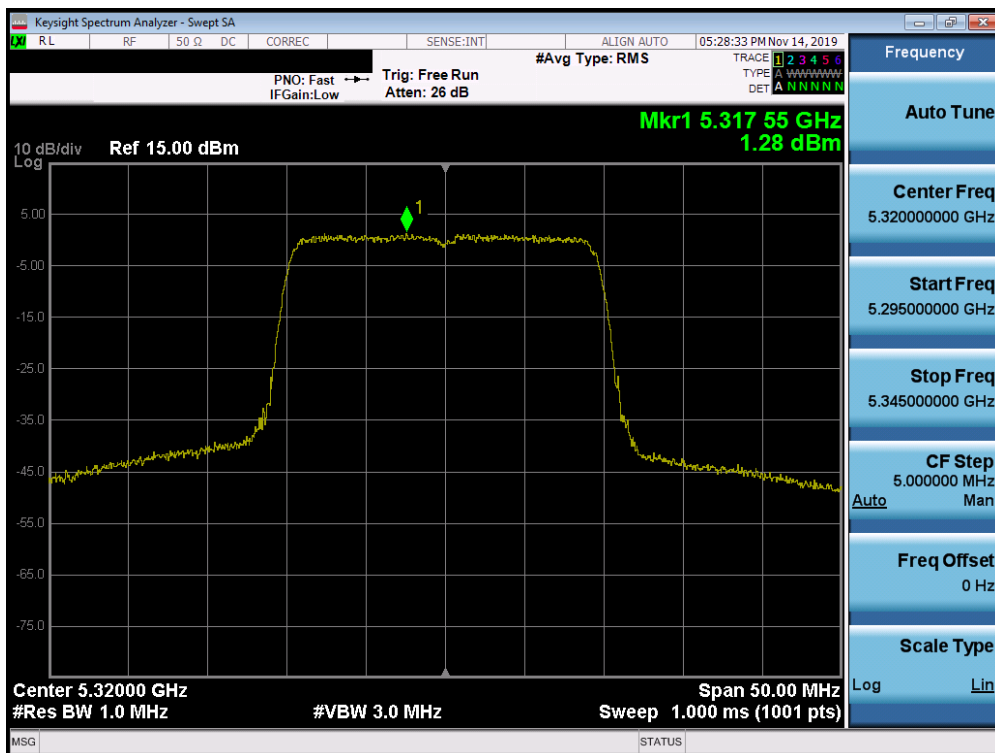


Plot 7-250. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 175 of 265

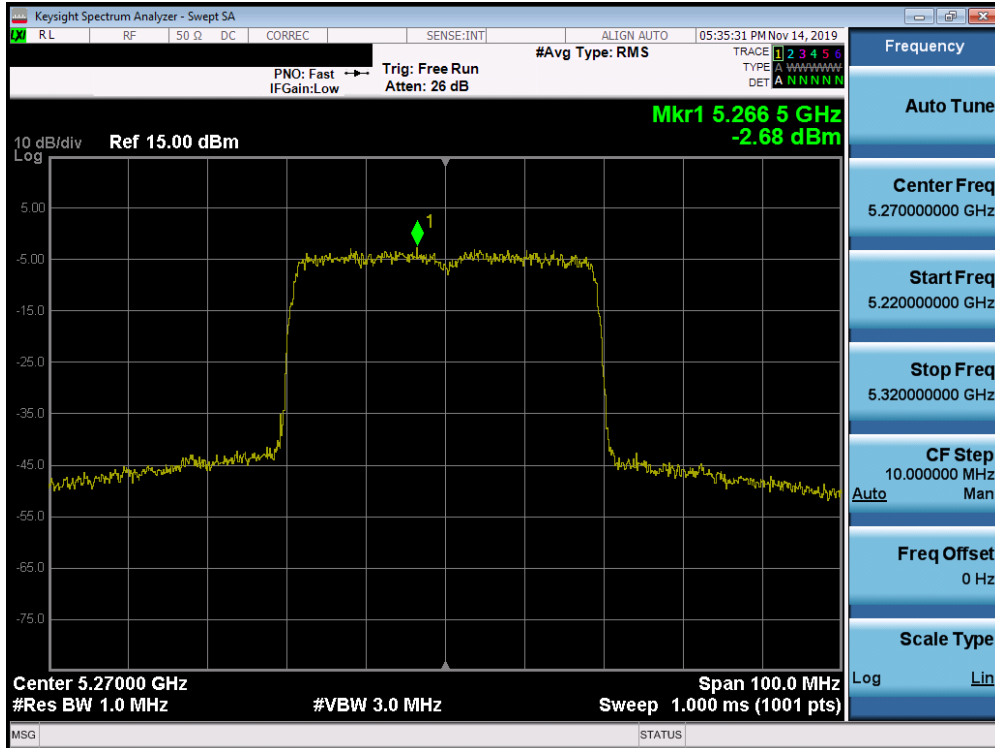


Plot 7-251. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

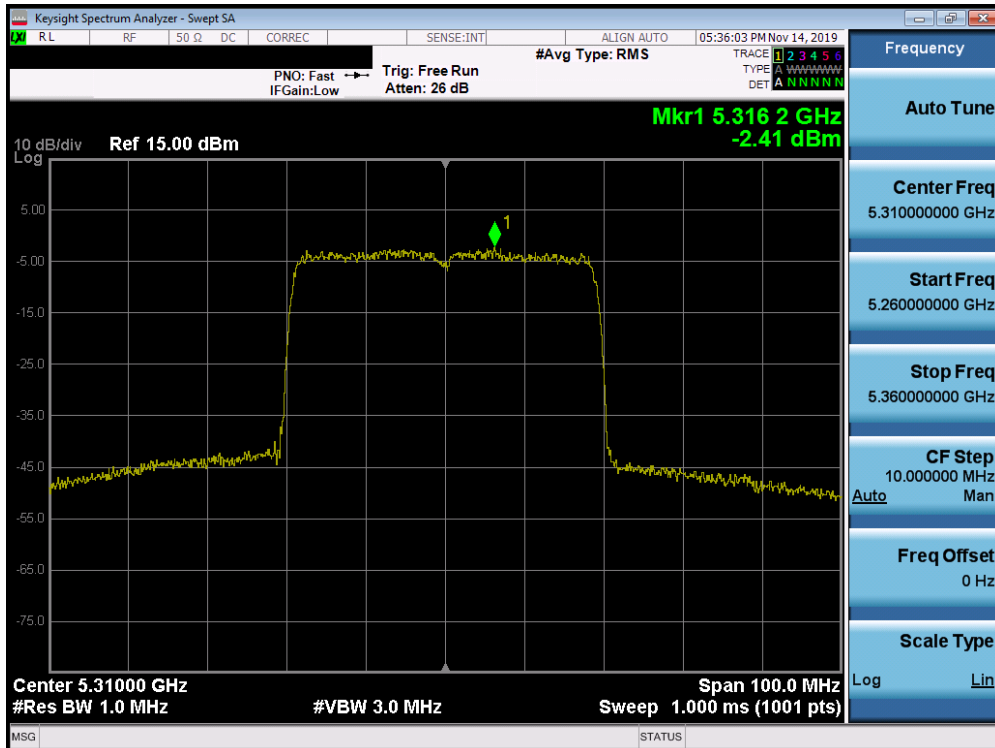


Plot 7-252. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 176 of 265

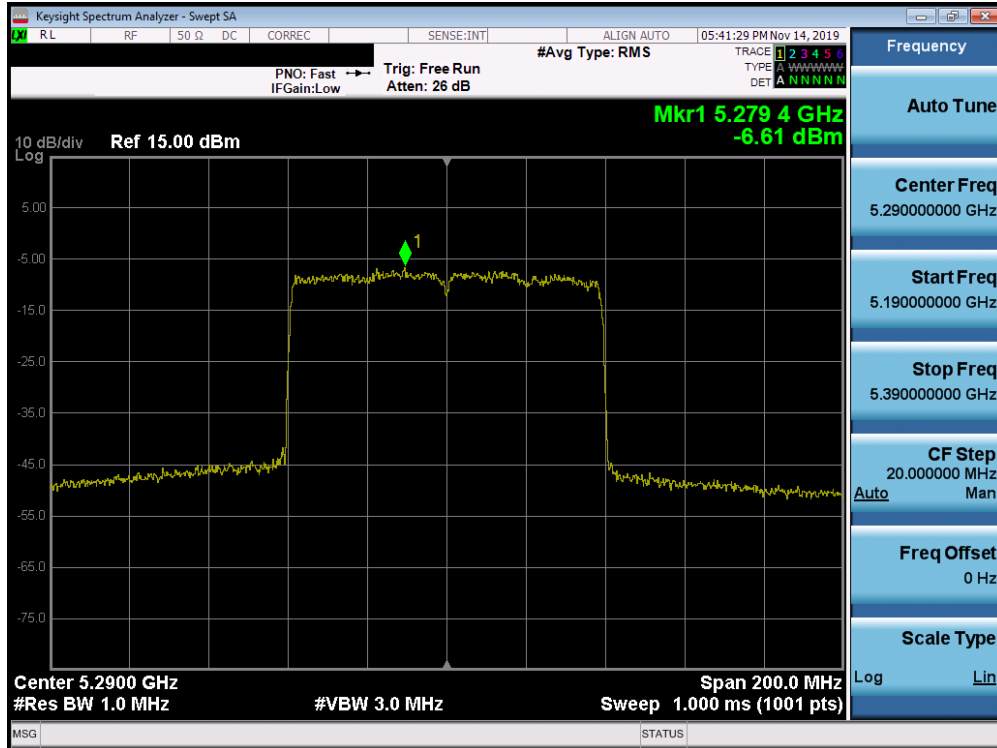


Plot 7-253. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

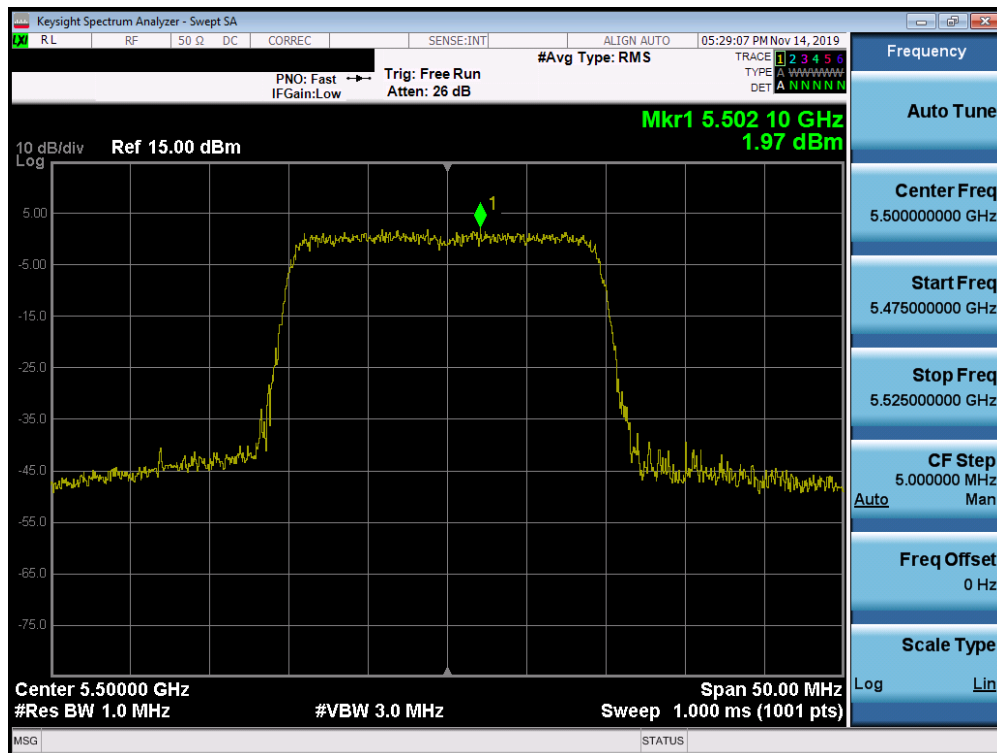


Plot 7-254. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 177 of 265

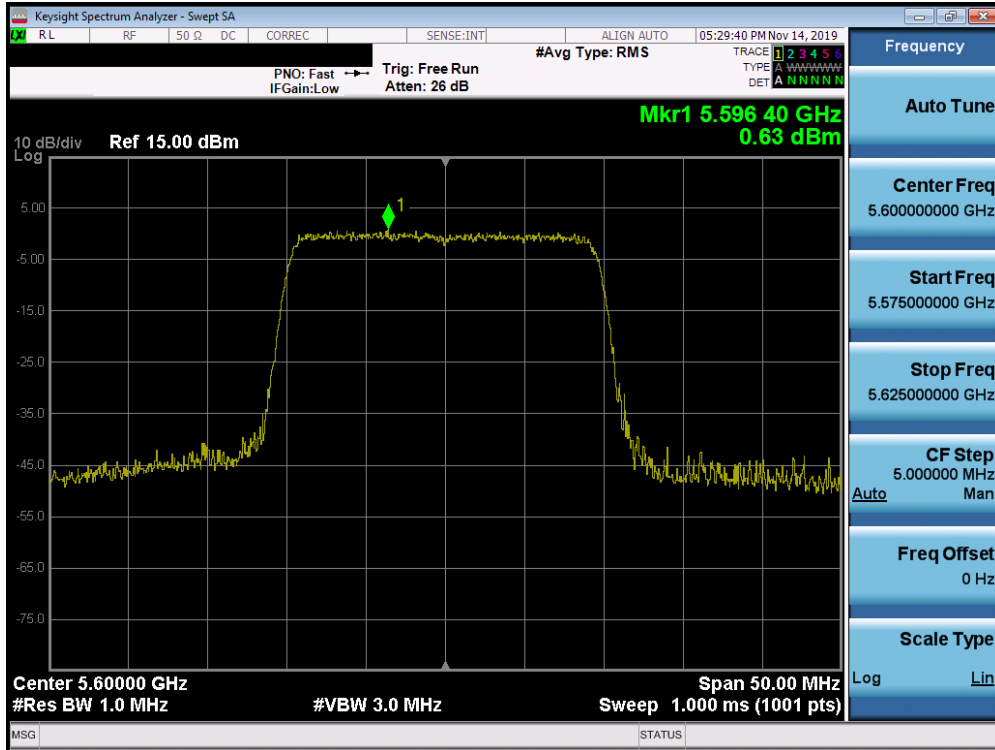


Plot 7-255. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

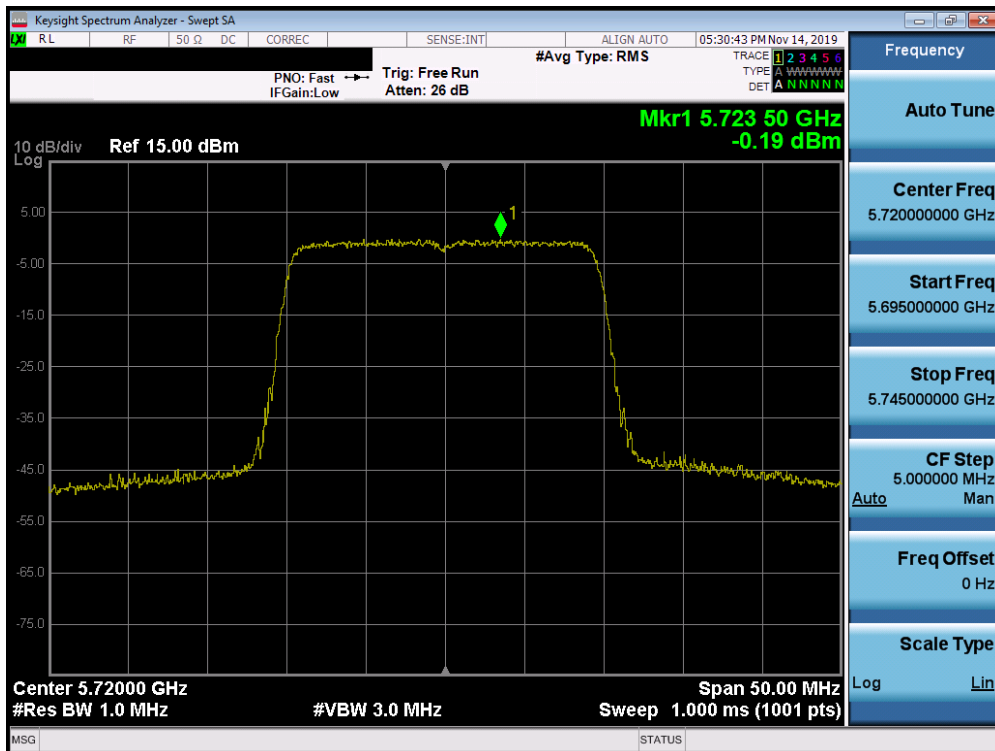


Plot 7-256. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 178 of 265

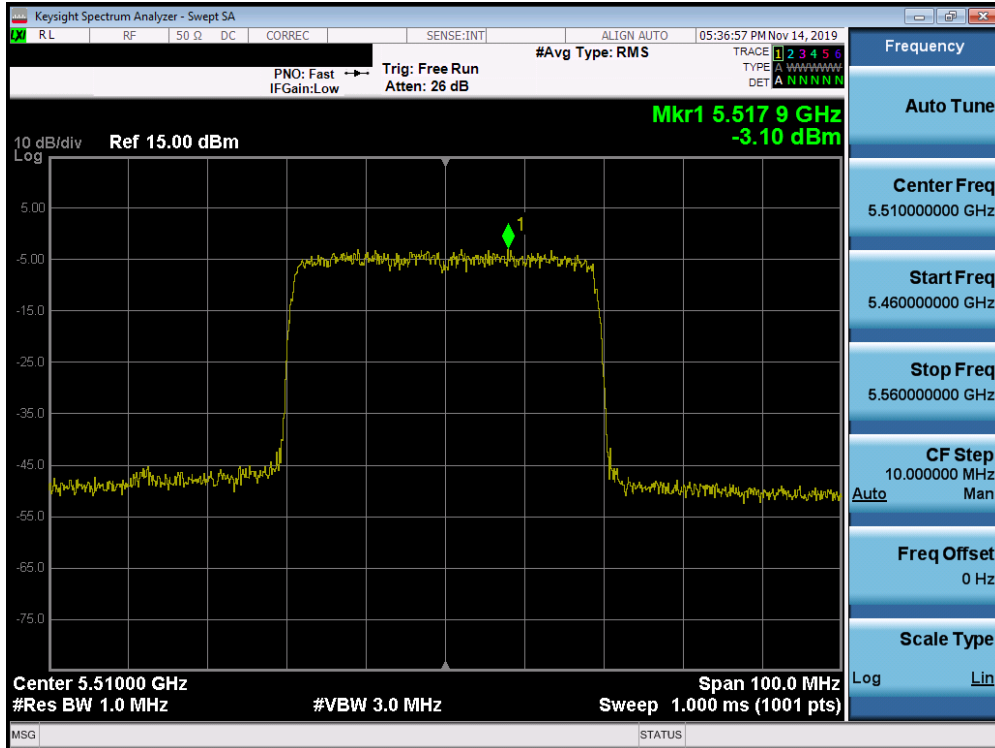


Plot 7-257. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

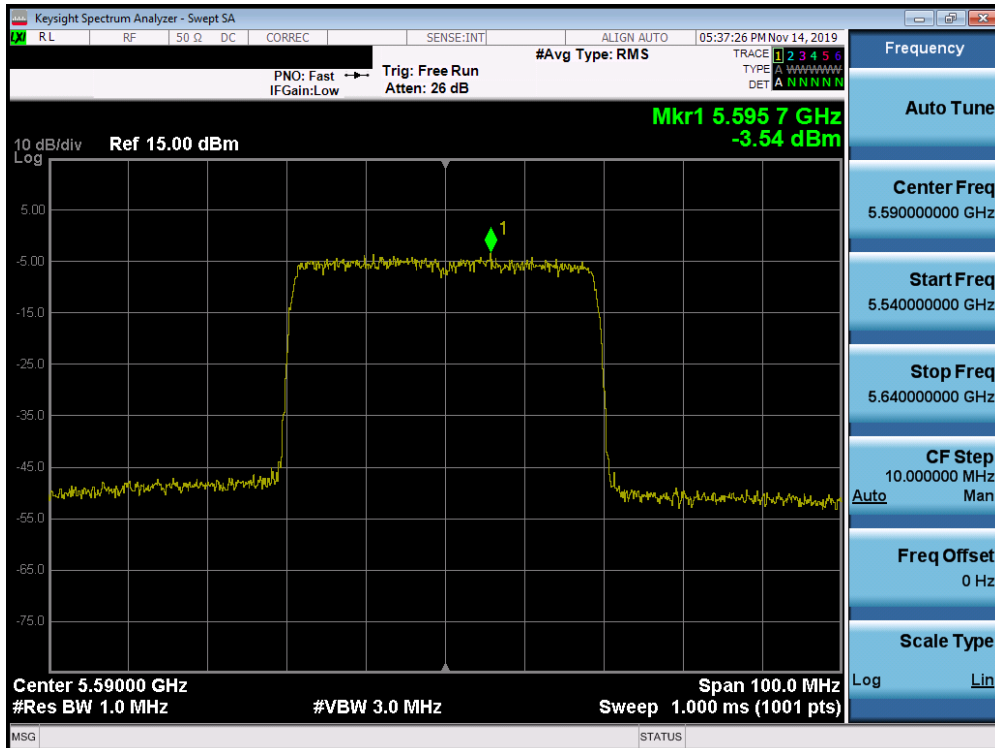


Plot 7-258. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 179 of 265

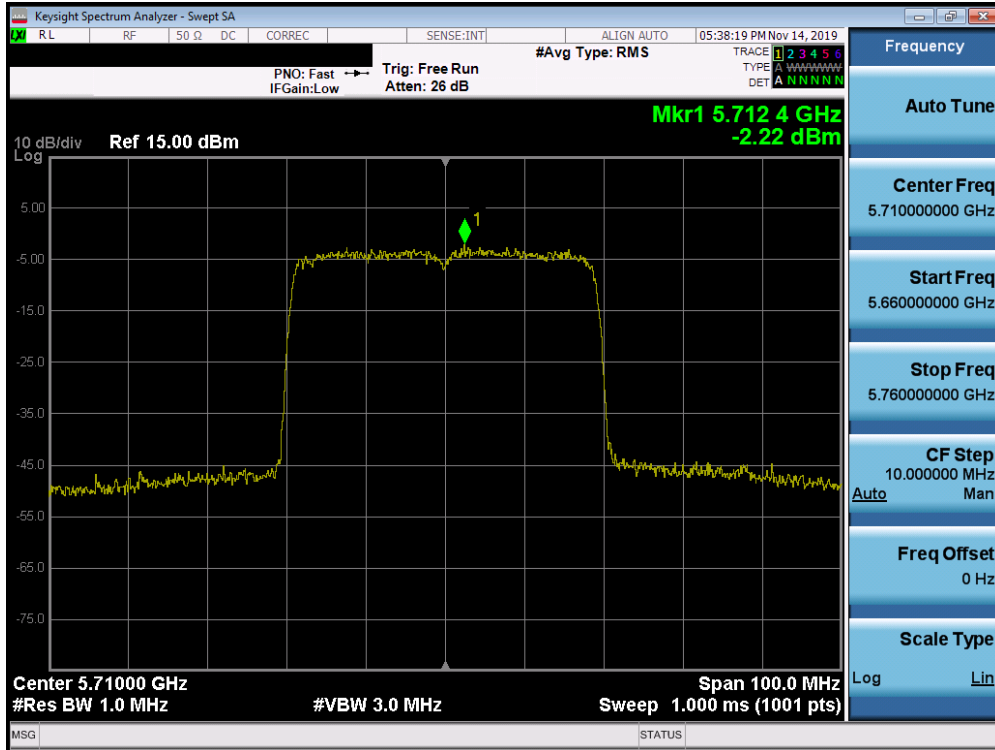


Plot 7-259. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)



Plot 7-260. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 180 of 265



Plot 7-261. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

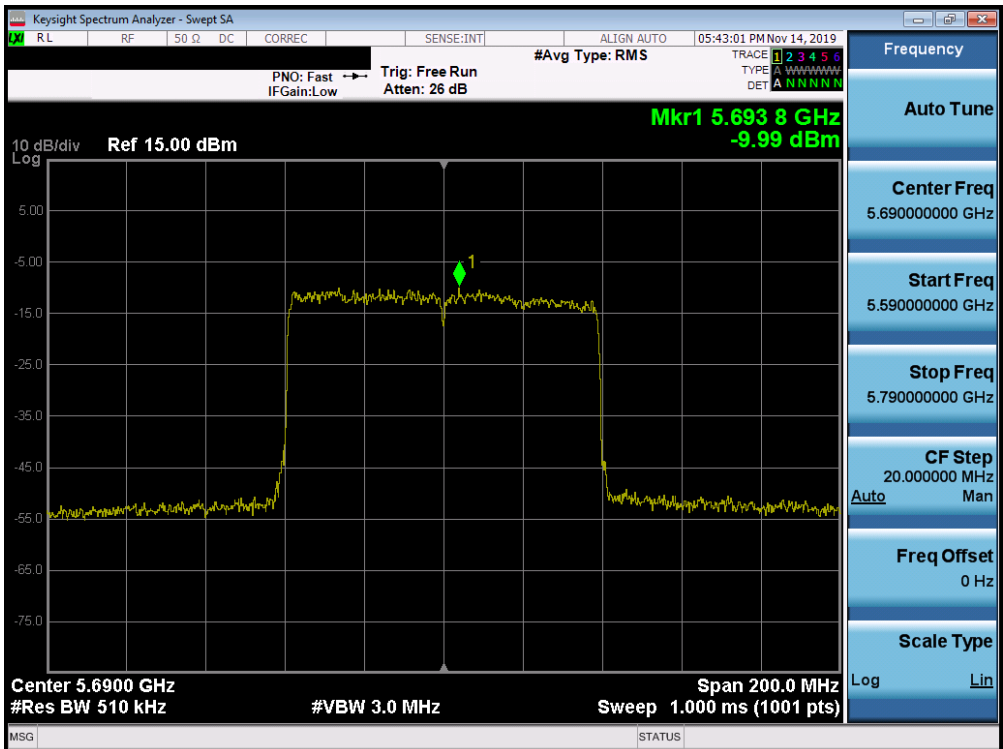


Plot 7-262. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 181 of 265

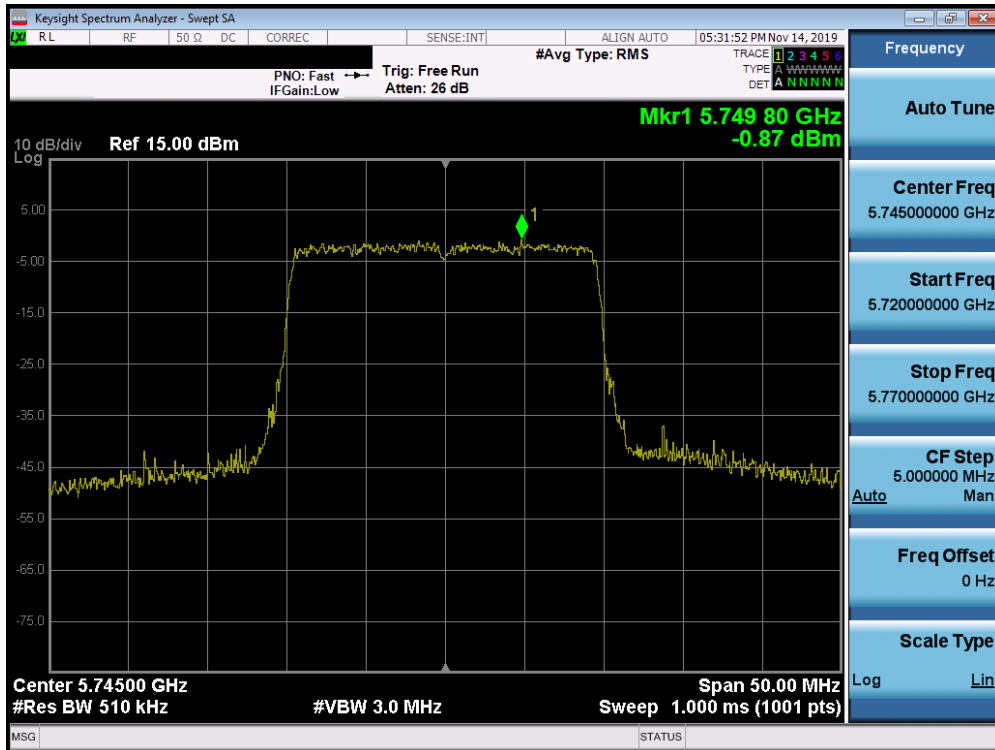


Plot 7-263. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

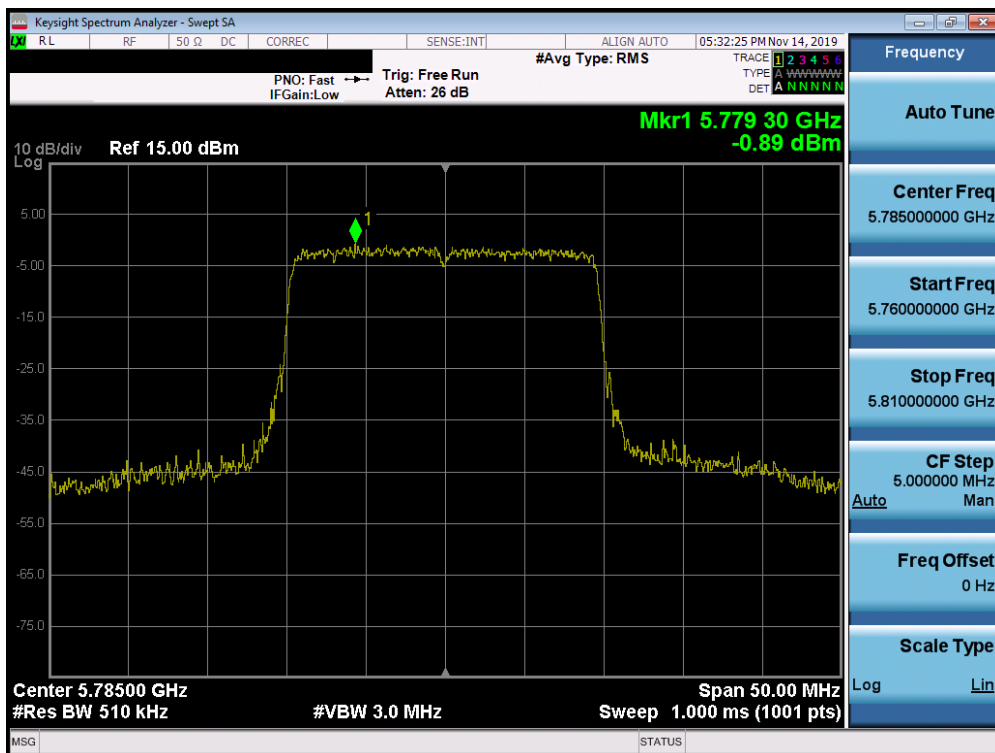


Plot 7-264. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 182 of 265

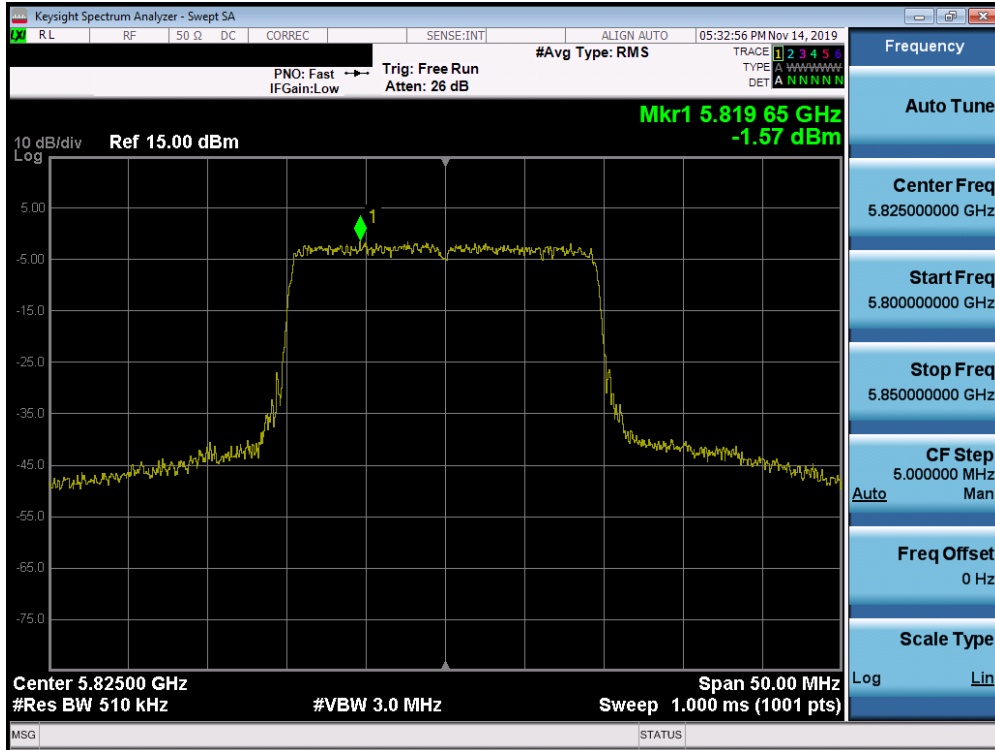


Plot 7-265. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

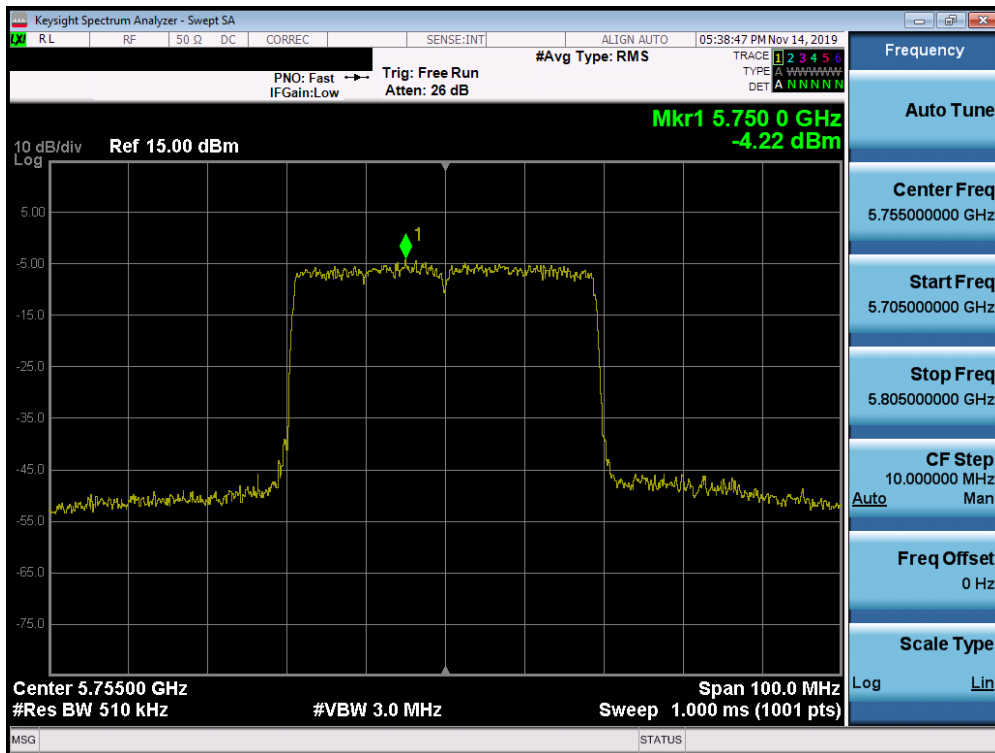


Plot 7-266. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 183 of 265

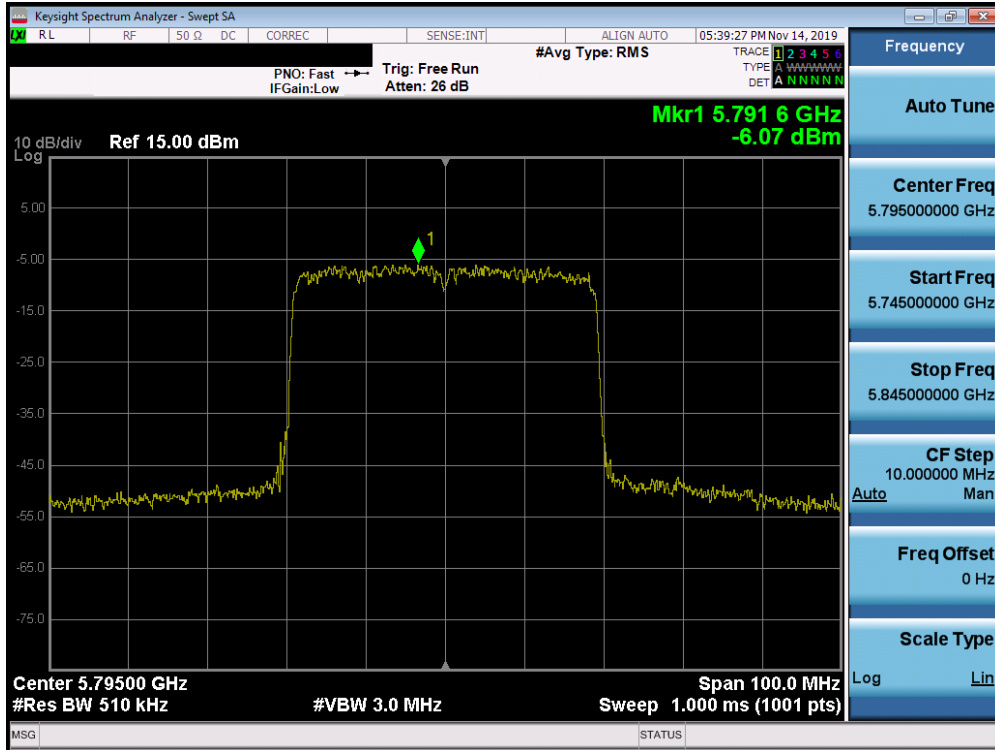


Plot 7-267. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

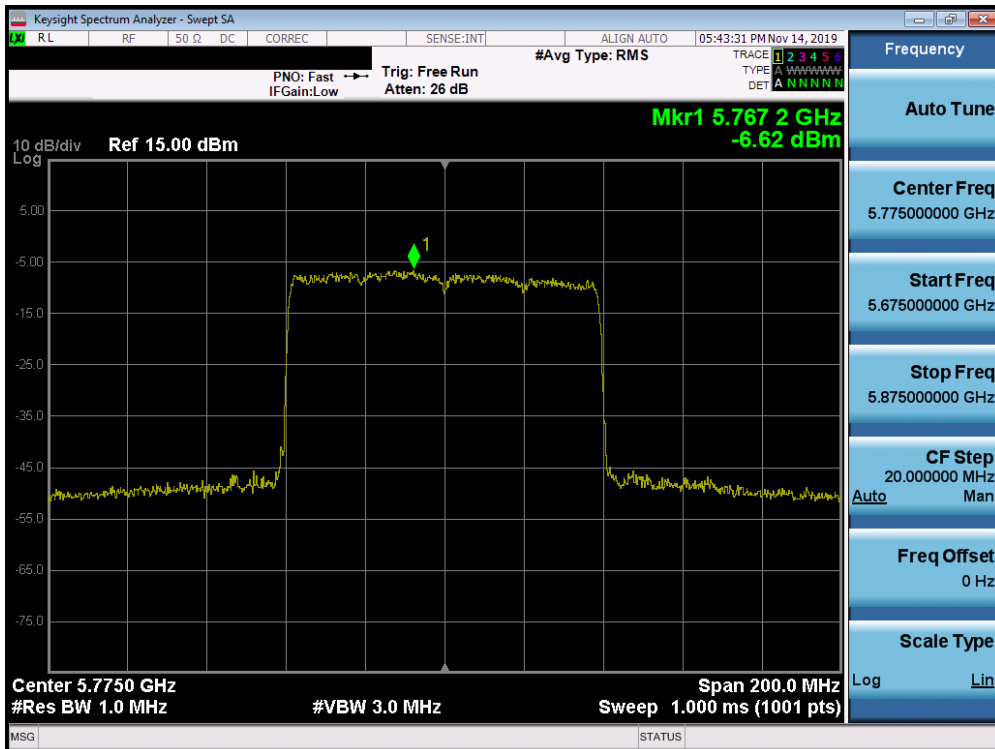


Plot 7-268. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 184 of 265



Plot 7-269. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-270. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 185 of 265

7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

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 EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: 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.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-30 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-69. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

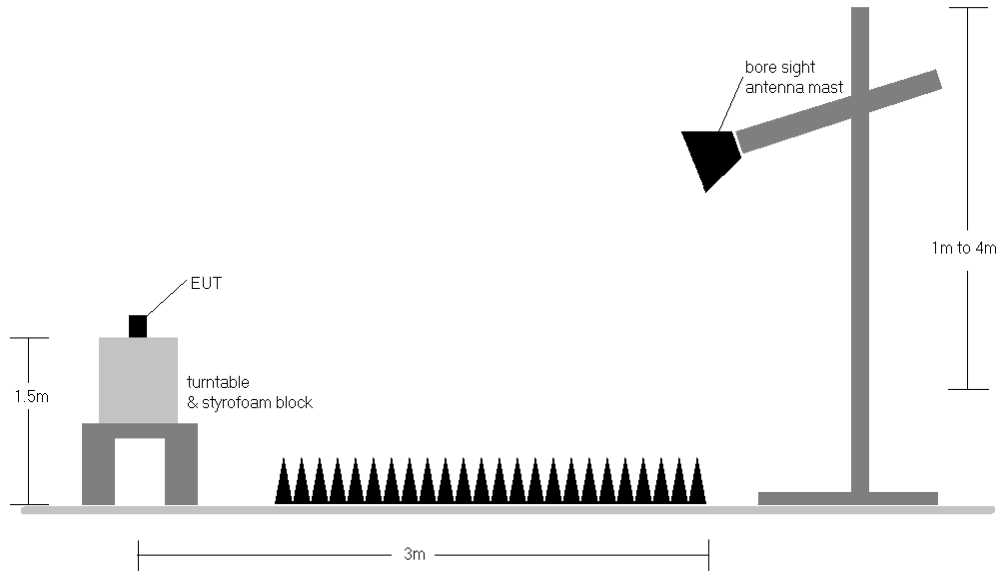


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBµV/m] – Limit [dBµV/m]

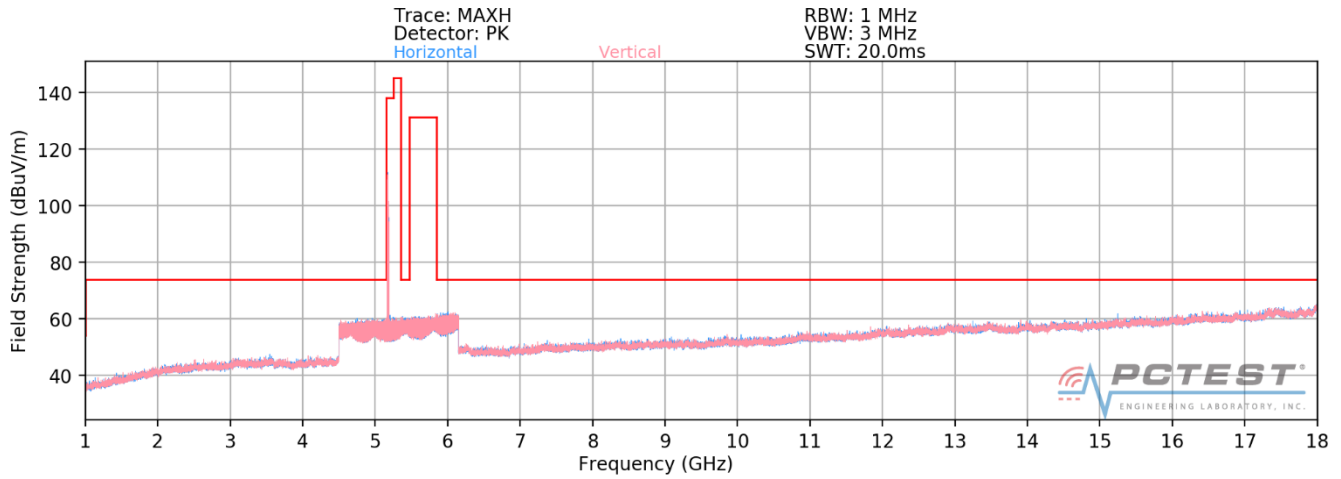
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

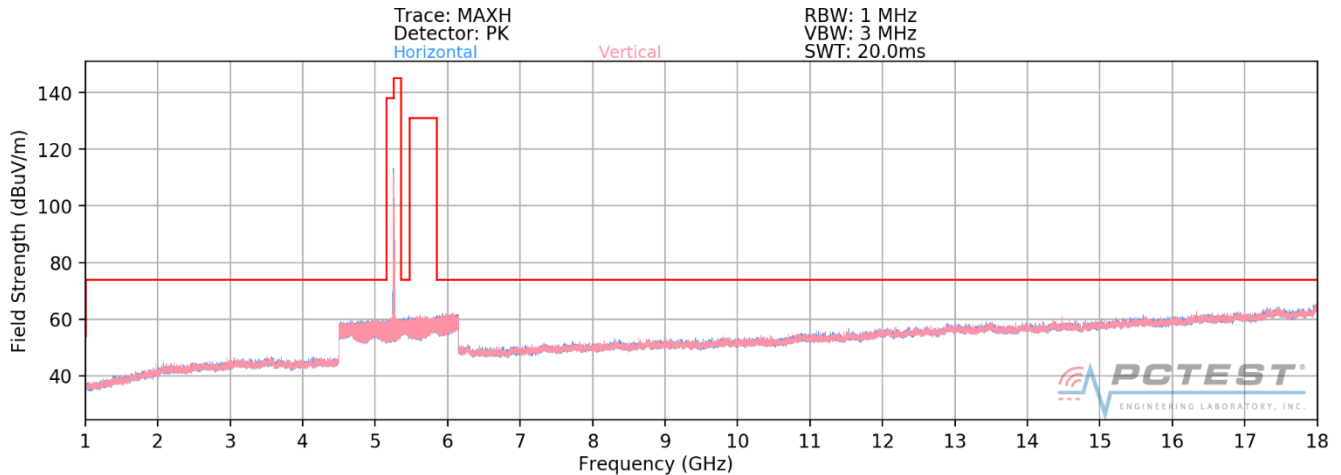
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7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

106 Tones

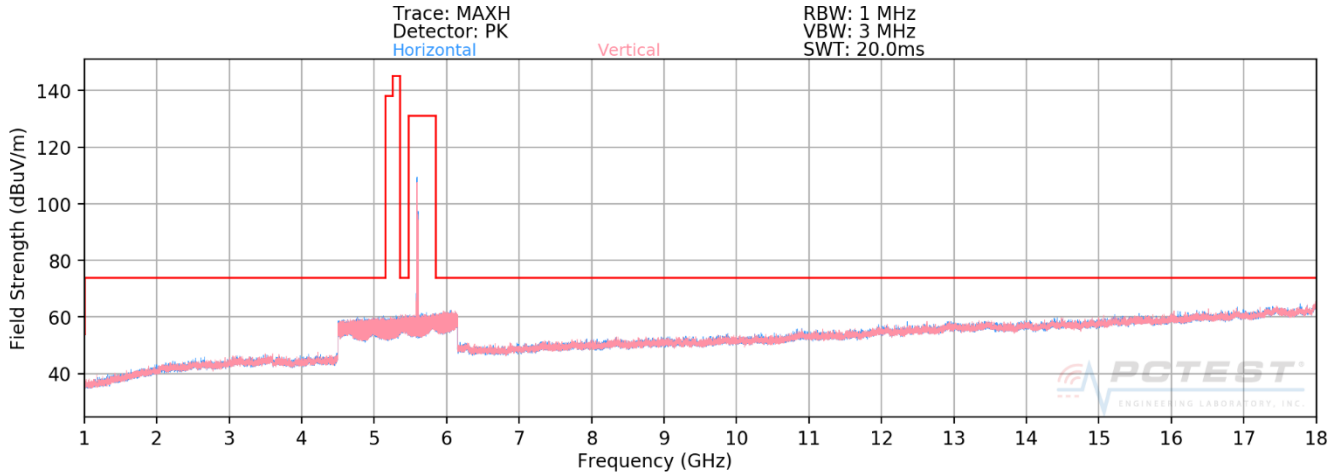


Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 106 Tones)

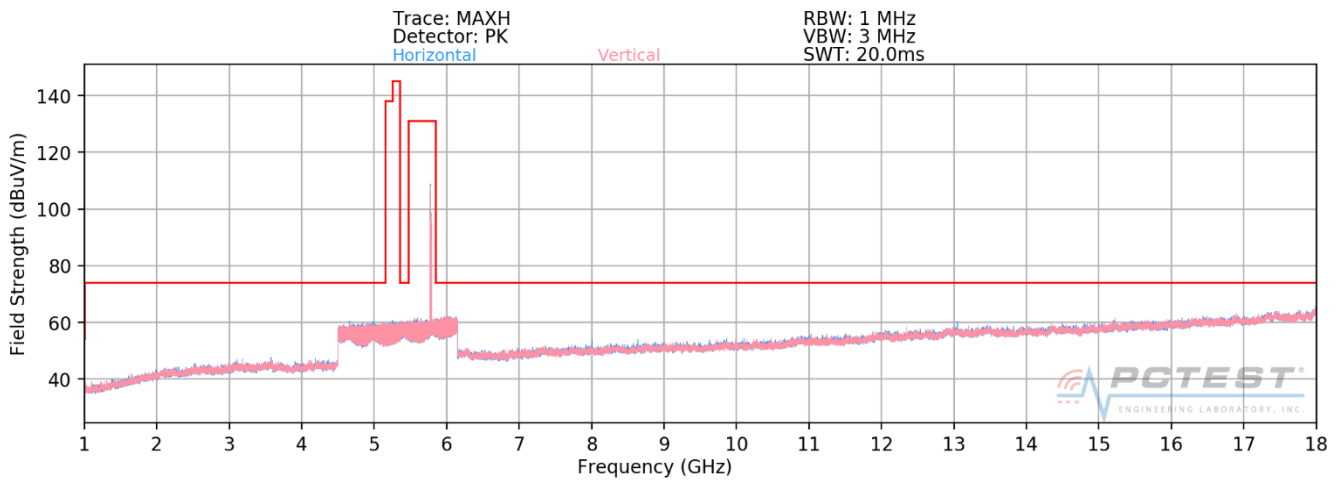


Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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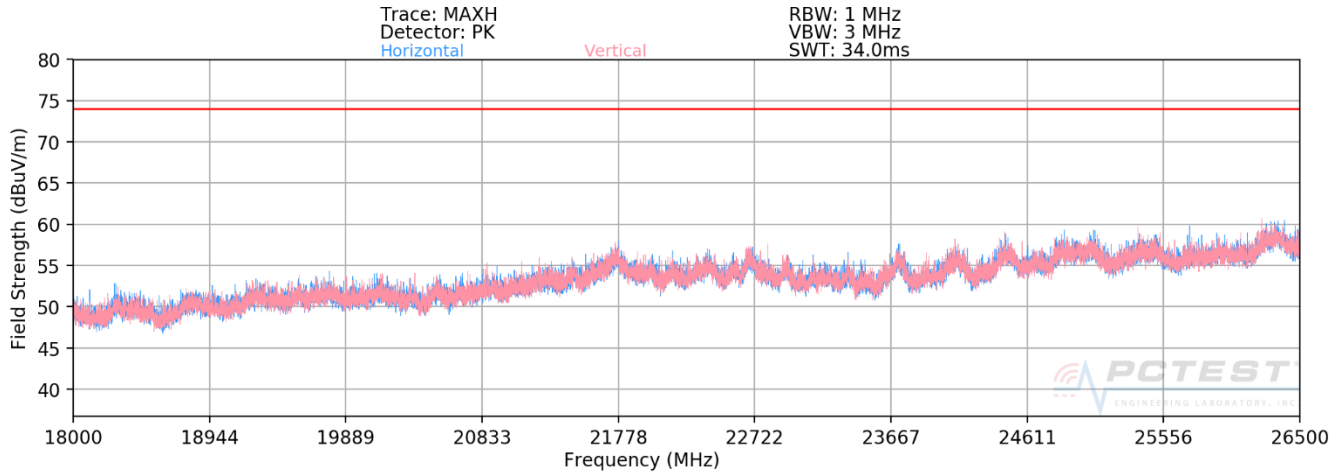
Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 106 Tones)



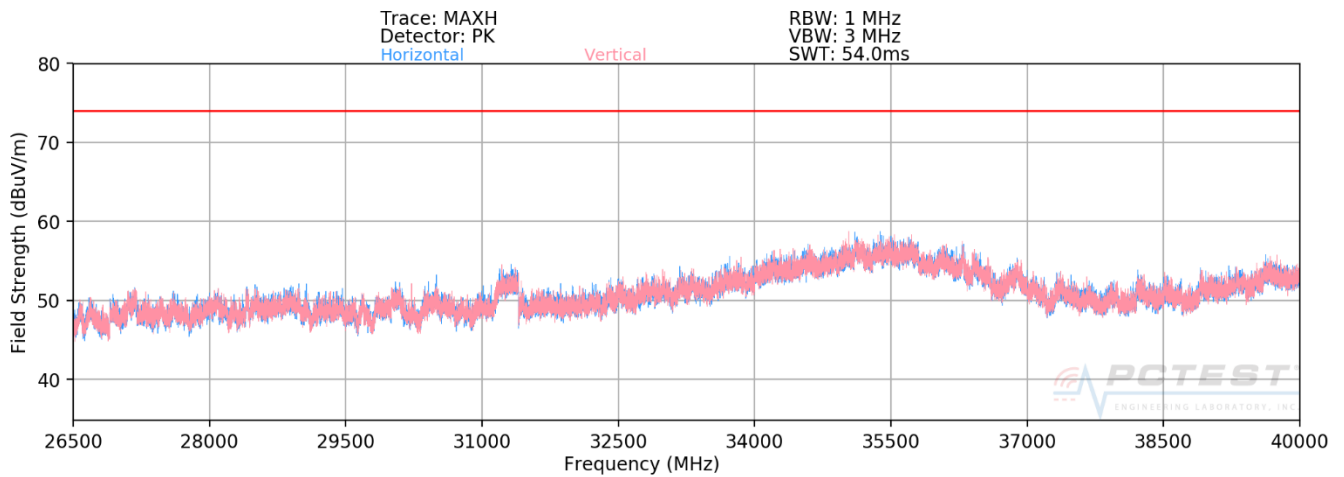
Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-275. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 106 Tones)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emission Measurements (106 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	V	-	-	-69.75	15.23	0.00	52.48	68.20	-15.72
* 15540.00	Average	V	120	331	-81.91	22.71	0.00	47.80	53.98	-6.18
* 15540.00	Peak	V	120	331	-68.03	22.71	0.00	61.68	73.98	-12.30
* 20720.00	Average	V	-	-	-78.06	17.51	-9.54	36.91	53.98	-17.07
* 20720.00	Peak	V	-	-	-67.90	17.51	-9.54	47.07	73.98	-26.91
25900.00	Peak	V	-	-	-65.24	19.88	-9.54	52.10	68.20	-16.10

Table 7-70. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	-	-	-69.95	15.67	0.00	52.72	68.20	-15.48
* 15600.00	Average	V	119	335	-81.14	22.46	0.00	48.32	53.98	-5.66
* 15600.00	Peak	V	119	335	-64.43	22.46	0.00	65.03	73.98	-8.95
* 20800.00	Average	V	-	-	-77.84	17.87	-9.54	37.49	53.98	-16.49
* 20800.00	Peak	V	-	-	-68.12	17.87	-9.54	47.21	73.98	-26.77
26000.00	Peak	V	-	-	-66.31	20.15	-9.54	51.30	68.20	-16.90

Table 7-71. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	V	-	-	-70.92	15.49	0.00	51.57	68.20	-16.63
* 15720.00	Average	V	164	325	-81.74	22.45	0.00	47.71	53.98	-6.27
* 15720.00	Peak	V	164	325	-65.02	22.45	0.00	64.43	73.98	-9.55
* 20960.00	Average	V	-	-	-78.03	18.06	-9.54	37.49	53.98	-16.49
* 20960.00	Peak	V	-	-	-67.45	18.06	-9.54	48.07	73.98	-25.91
26200.00	Peak	V	-	-	-65.78	20.23	-9.54	51.91	68.20	-16.29

Table 7-72. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	-	-	-70.29	15.86	0.00	52.57	68.20	-15.63
* 15780.00	Average	V	109	329	-82.27	22.77	0.00	47.50	53.98	-6.48
* 15780.00	Peak	V	109	329	-67.47	22.77	0.00	62.30	73.98	-11.68
* 21040.00	Average	V	-	-	-77.81	18.36	-9.54	38.01	53.98	-15.97
* 21040.00	Peak	V	-	-	-67.41	18.36	-9.54	48.41	73.98	-25.57
26300.00	Peak	V	-	-	-65.64	20.96	-9.54	52.78	68.20	-15.42

Table 7-73. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-69.67	15.70	0.00	53.03	68.20	-15.17
* 15840.00	Average	V	196	331	-82.74	22.66	0.00	46.92	53.98	-7.06
* 15840.00	Peak	V	196	331	-66.19	22.66	0.00	63.47	73.98	-10.51
* 21120.00	Average	V	-	-	-77.51	18.17	-9.54	38.12	53.98	-15.86
* 21120.00	Peak	V	-	-	-66.47	18.17	-9.54	49.16	73.98	-24.82
26400.00	Peak	V	-	-	-66.01	20.65	-9.54	52.10	68.20	-16.10

Table 7-74. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	-	-	-82.52	16.03	0.00	40.51	53.98	-13.47
* 10640.00	Peak	V	-	-	-70.31	16.03	0.00	52.72	73.98	-21.26
* 15960.00	Average	V	115	331	-82.88	23.09	0.00	47.21	53.98	-6.77
* 15960.00	Peak	V	115	331	-68.00	23.09	0.00	62.09	73.98	-11.89
* 21280.00	Average	V	-	-	-77.38	18.57	-9.54	38.65	53.98	-15.33
* 21280.00	Peak	V	-	-	-66.82	18.57	-9.54	49.21	73.98	-24.77
26600.00	Peak	V	-	-	-53.47	5.16	-9.54	49.15	68.20	-19.05

Table 7-75. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	-	-	-82.31	16.51	0.00	41.20	53.98	-12.78
* 11000.00	Peak	V	-	-	-69.47	16.51	0.00	54.04	73.98	-19.94
16500.00	Peak	V	-	-	-70.39	24.17	0.00	60.78	68.20	-7.42
22000.00	Peak	V	-	-	-67.29	19.12	-9.54	49.29	68.20	-18.91
27500.00	Peak	V	-	-	-51.12	3.98	-9.54	50.32	68.20	-17.88

Table 7-76. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	-	-	-82.46	16.73	0.00	41.27	53.98	-12.71
* 11200.00	Peak	V	-	-	-70.28	16.73	0.00	53.45	73.98	-20.53
16800.00	Peak	V	-	-	-70.36	24.00	0.00	60.64	68.20	-7.56
* 22400.00	Average	V	-	-	-77.74	20.03	-9.54	39.75	53.98	-14.23
* 22400.00	Peak	V	-	-	-67.07	20.03	-9.54	50.42	73.98	-23.56
28000.00	Peak	V	-	-	-51.86	4.70	-9.54	50.30	68.20	-17.90

Table 7-77. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	V	241	341	-80.78	17.29	0.00	43.51	53.98	-10.47
* 11440.00	Peak	V	241	341	-65.98	17.29	0.00	58.31	73.98	-15.67
17160.00	Peak	V	-	-	-70.70	24.37	0.00	60.67	68.20	-7.53
* 22880.00	Average	V	-	-	-78.15	19.50	-9.54	38.81	53.98	-15.17
* 22880.00	Peak	V	-	-	-67.37	19.50	-9.54	49.59	73.98	-24.39
28600.00	Peak	V	-	-	-52.84	5.14	-9.54	49.76	68.20	-18.44

Table 7-78. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	V	104	328	-79.96	17.63	0.00	44.67	53.98	-9.30
* 11490.00	Peak	V	104	328	-66.67	17.63	0.00	57.96	73.98	-16.01
17235.00	Peak	V	-	-	-70.98	25.01	0.00	61.03	68.20	-7.17
* 22980.00	Average	V	-	-	-78.27	19.89	-9.54	39.08	53.98	-14.90
* 22980.00	Peak	V	-	-	-67.73	19.89	-9.54	49.62	73.98	-24.36
28725.00	Peak	V	-	-	-52.35	4.66	-9.54	49.77	68.20	-18.43

Table 7-79. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	125	338	-77.80	17.35	0.00	46.55	53.98	-7.43
* 11570.00	Peak	V	125	338	-65.09	17.35	0.00	59.26	73.98	-14.72
17355.00	Peak	V	-	-	-71.32	26.08	0.00	61.76	68.20	-6.44
23140.00	Peak	V	-	-	-68.15	19.59	-9.54	48.90	68.20	-19.30
28925.00	Peak	V	-	-	-51.15	4.43	-9.54	50.74	68.20	-17.46

Table 7-80. Radiated Measurements SISO ANT1 (106 Tones)

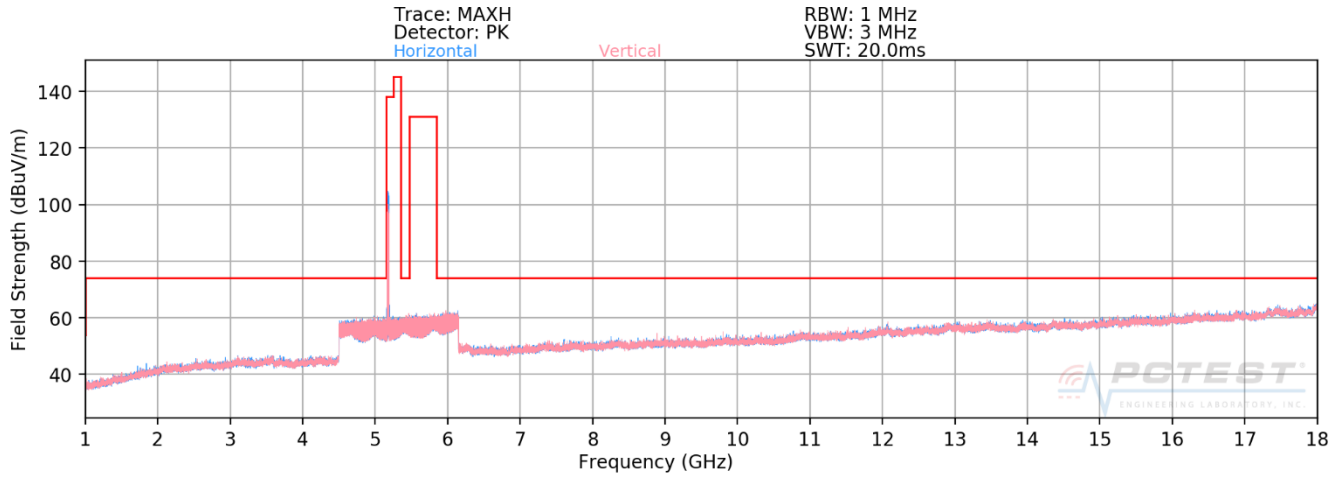
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	115	321	-78.31	17.57	0.00	46.26	53.98	-7.71
* 11650.00	Peak	V	115	321	-63.80	17.57	0.00	60.77	73.98	-13.20
17475.00	Peak	V	-	-	-70.80	26.23	0.00	62.43	68.20	-5.77
23300.00	Peak	V	-	-	-66.61	18.93	-9.54	49.78	68.20	-18.42
29125.00	Peak	V	-	-	-51.23	3.48	-9.54	49.71	68.20	-18.49

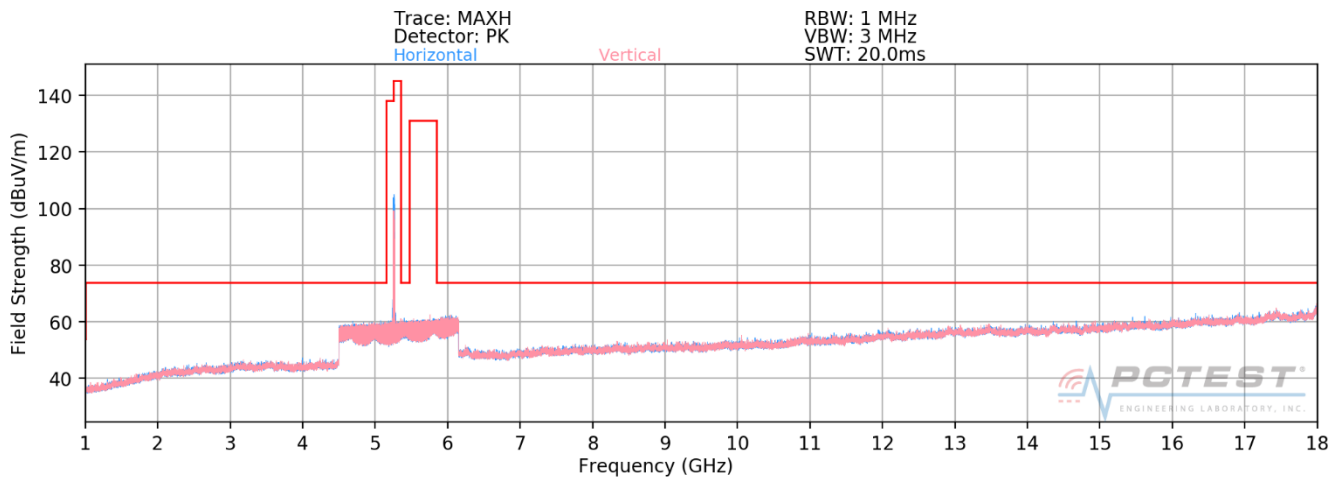
Table 7-81. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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242 Tones

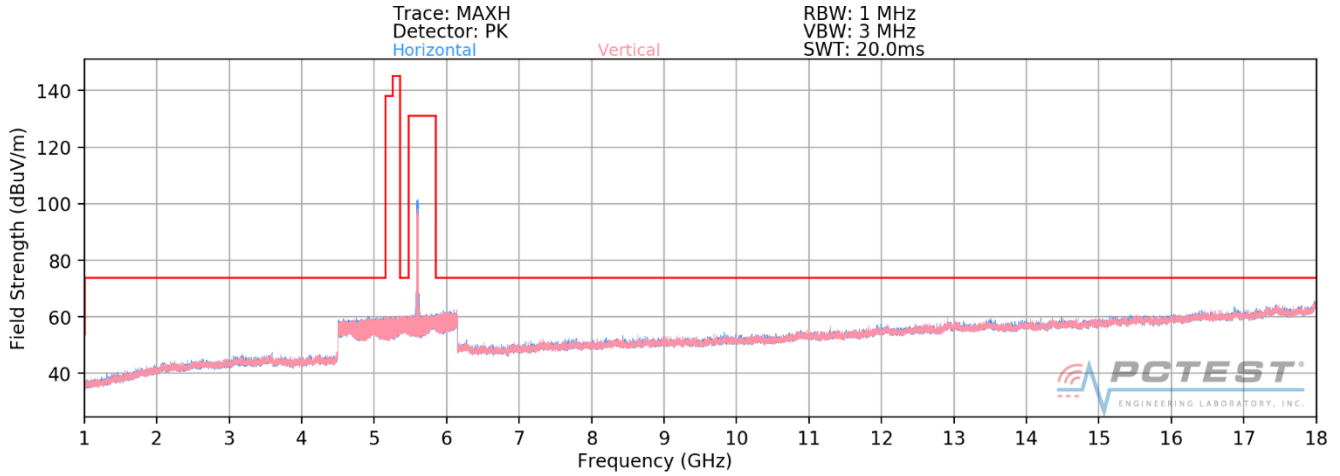


Plot 7-277. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)

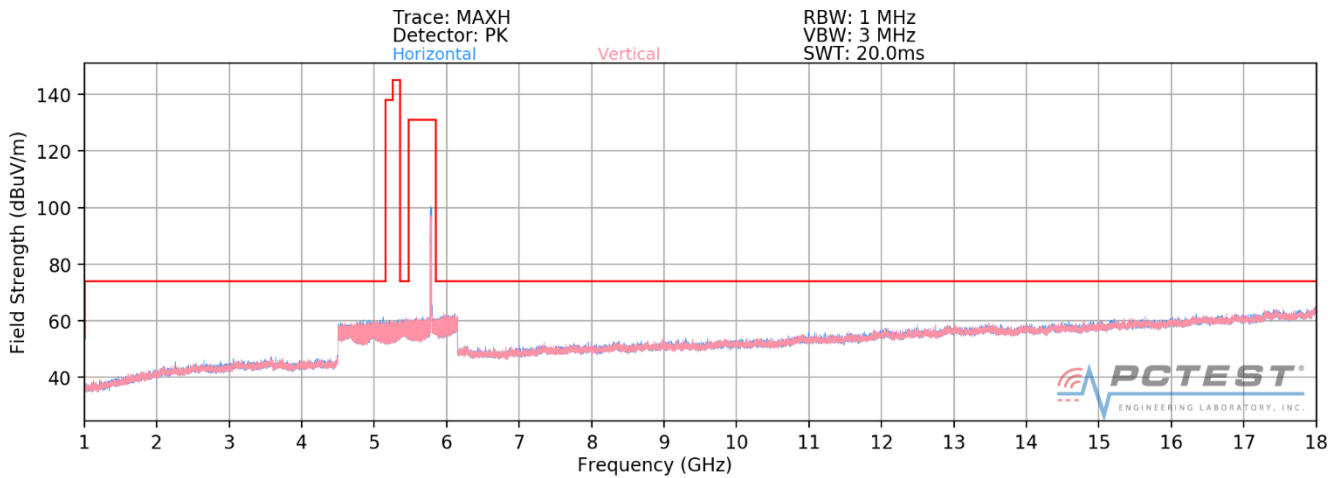


Plot 7-278. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 198 of 265



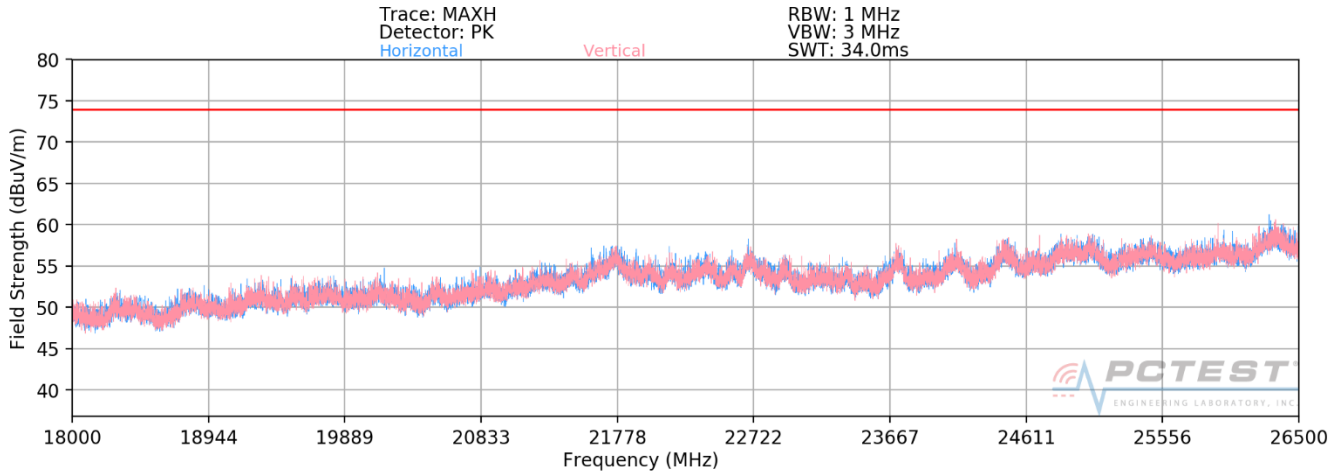
Plot 7-279. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)



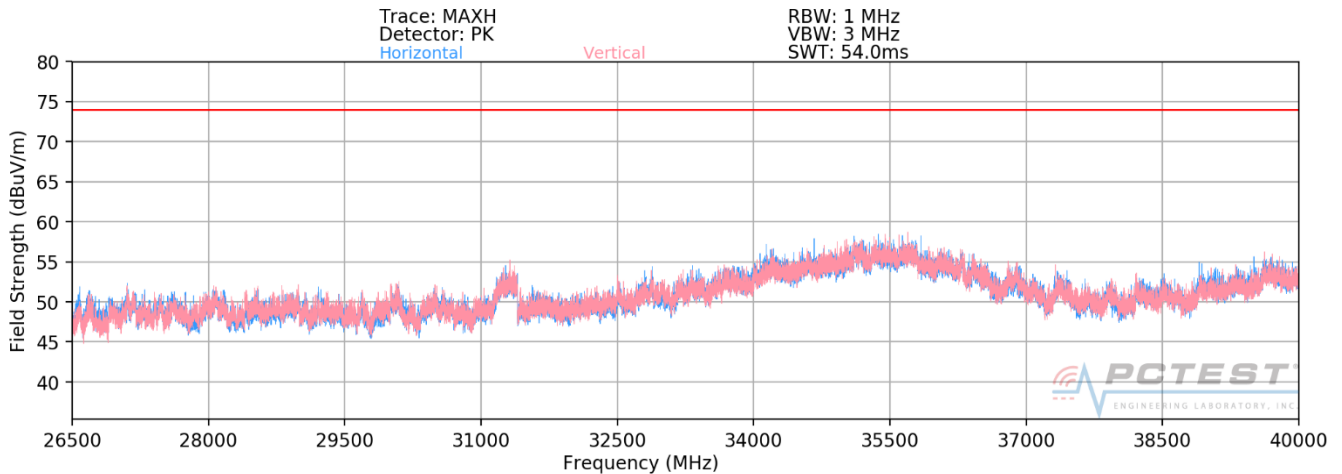
Plot 7-280. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 199 of 265	

SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-281. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones)



Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones)

FCC ID: A3LSMG986W	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 200 of 265

SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	V	-	-	-70.63	15.23	0.00	51.60	68.20	-16.60
* 15540.00	Average	V	141	323	-82.32	22.71	0.00	47.39	53.98	-6.59
* 15540.00	Peak	V	141	323	-68.39	22.71	0.00	61.32	73.98	-12.66
* 20720.00	Average	V	-	-	-77.53	17.51	-9.54	37.44	53.98	-16.54
* 20720.00	Peak	V	-	-	-66.92	17.51	-9.54	48.05	73.98	-25.93
25900.00	Peak	V	-	-	-65.67	19.88	-9.54	51.67	68.20	-16.53

Table 7-82. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	-	-	-70.07	15.67	0.00	52.60	68.20	-15.60
* 15600.00	Average	V	125	327	-81.79	22.46	0.00	47.67	53.98	-6.31
* 15600.00	Peak	V	125	327	-67.94	22.46	0.00	61.52	73.98	-12.46
* 20800.00	Average	V	-	-	-77.41	17.87	-9.54	37.92	53.98	-16.06
* 20800.00	Peak	V	-	-	-67.41	17.87	-9.54	47.92	73.98	-26.06
26000.00	Peak	V	-	-	-66.07	20.15	-9.54	51.54	68.20	-16.66

Table 7-83. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 201 of 265	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	V	-	-	-70.73	15.49	0.00	51.76	68.20	-16.44
* 15720.00	Average	V	119	322	-81.87	22.45	0.00	47.58	53.98	-6.40
* 15720.00	Peak	V	119	322	-67.59	22.45	0.00	61.86	73.98	-12.12
* 20960.00	Average	V	-	-	-78.00	18.06	-9.54	37.52	53.98	-16.46
* 20960.00	Peak	V	-	-	-67.93	18.06	-9.54	47.59	73.98	-26.39
26200.00	Peak	V	-	-	-66.06	20.23	-9.54	51.63	68.20	-16.57

Table 7-84. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	V	-	-	-71.05	15.86	0.00	51.81	68.20	-16.39
* 15780.00	Average	V	-	-	-83.17	22.77	0.00	46.60	53.98	-7.38
* 15780.00	Peak	V	-	-	-70.68	22.77	0.00	59.09	73.98	-14.89
* 21040.00	Average	V	-	-	-77.49	18.36	-9.54	38.33	53.98	-15.65
* 21040.00	Peak	V	-	-	-67.46	18.36	-9.54	48.36	73.98	-25.62
26300.00	Peak	V	-	-	-65.42	20.96	-9.54	53.00	68.20	-15.20

Table 7-85. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 202 of 265	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-70.03	15.70	0.00	52.67	68.20	-15.53
* 15840.00	Average	V	-	-	-82.78	22.66	0.00	46.88	53.98	-7.10
* 15840.00	Peak	V	-	-	-70.01	22.66	0.00	59.65	73.98	-14.33
* 21120.00	Average	V	-	-	-77.41	18.17	-9.54	38.22	53.98	-15.76
* 21120.00	Peak	V	-	-	-67.44	18.17	-9.54	48.19	73.98	-25.79
26400.00	Peak	V	-	-	-65.37	20.65	-9.54	52.74	68.20	-15.46

Table 7-86. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	-	-	-82.55	16.03	0.00	40.48	53.98	-13.50
* 10640.00	Peak	V	-	-	-70.90	16.03	0.00	52.13	73.98	-21.85
* 15960.00	Average	V	-	-	-83.45	23.09	0.00	46.64	53.98	-7.34
* 15960.00	Peak	V	-	-	-70.16	23.09	0.00	59.93	73.98	-14.05
* 21280.00	Average	V	-	-	-77.31	18.57	-9.54	38.72	53.98	-15.26
* 21280.00	Peak	V	-	-	-66.52	18.57	-9.54	49.51	73.98	-24.47
26600.00	Peak	V	-	-	-53.21	5.16	-9.54	49.41	68.20	-18.79

Table 7-87. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 203 of 265	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	-	-	-81.55	16.51	0.00	41.96	53.98	-12.02
* 11000.00	Peak	V	-	-	-69.72	16.51	0.00	53.79	73.98	-20.19
16500.00	Peak	V	-	-	-70.82	24.17	0.00	60.35	68.20	-7.85
22000.00	Peak	V	-	-	-67.07	19.12	-9.54	49.51	68.20	-18.69
27500.00	Peak	V	-	-	-52.02	3.98	-9.54	49.42	68.20	-18.78

Table 7-88. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	-	-	-81.64	16.73	0.00	42.09	53.98	-11.89
* 11200.00	Peak	V	-	-	-69.66	16.73	0.00	54.07	73.98	-19.91
16800.00	Peak	V	-	-	-70.26	24.00	0.00	60.74	68.20	-7.46
* 22400.00	Average	V	-	-	-77.89	20.03	-9.54	39.60	53.98	-14.38
* 22400.00	Peak	V	-	-	-67.58	20.03	-9.54	49.91	73.98	-24.07
28000.00	Peak	V	-	-	-52.35	4.70	-9.54	49.81	68.20	-18.39

Table 7-89. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 204 of 265	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	191	314	-80.75	17.29	0.00	43.54	53.98	-10.44
* 11440.00	Peak	V	191	314	-67.87	17.29	0.00	56.42	73.98	-17.56
17160.00	Peak	V	-	-	-70.20	24.37	0.00	61.17	68.20	-7.03
* 22880.00	Average	V	-	-	-78.29	19.50	-9.54	38.67	53.98	-15.31
* 22880.00	Peak	V	-	-	-67.80	19.50	-9.54	49.16	73.98	-24.82
28600.00	Peak	V	-	-	-51.81	5.14	-9.54	50.79	68.20	-17.41

Table 7-90. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	V	137	323	-80.74	17.63	0.00	43.89	53.98	-10.08
* 11490.00	Peak	V	137	323	-67.77	17.63	0.00	56.86	73.98	-17.11
17235.00	Peak	V	-	-	-70.60	25.01	0.00	61.41	68.20	-6.79
* 22980.00	Average	V	-	-	-78.21	19.89	-9.54	39.14	53.98	-14.84
* 22980.00	Peak	V	-	-	-67.56	19.89	-9.54	49.79	73.98	-24.19
28725.00	Peak	V	-	-	-51.89	4.66	-9.54	50.23	68.20	-17.97

Table 7-91. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	196	330	-78.99	17.35	0.00	45.36	53.98	-8.62
* 11570.00	Peak	V	196	330	-66.40	17.35	0.00	57.95	73.98	-16.03
17355.00	Peak	V	-	-	-70.87	26.08	0.00	62.21	68.20	-5.99
23140.00	Peak	V	-	-	-66.11	19.59	-9.54	50.94	68.20	-17.26
28925.00	Peak	V	-	-	-52.16	4.43	-9.54	49.73	68.20	-18.47

Table 7-92. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

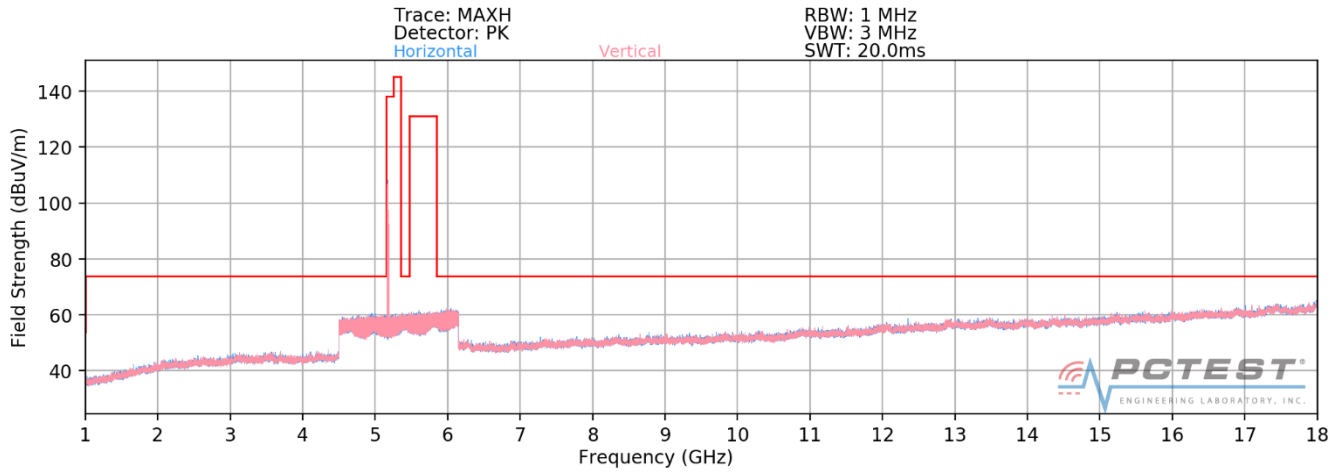
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	143	328	-78.41	17.57	0.00	46.16	53.98	-7.81
* 11650.00	Peak	V	143	328	-65.91	17.57	0.00	58.66	73.98	-15.31
17475.00	Peak	V	-	-	-70.54	26.23	0.00	62.69	68.20	-5.51
23300.00	Peak	V	-	-	-67.83	18.93	-9.54	48.56	68.20	-19.64
29125.00	Peak	V	-	-	-50.88	3.48	-9.54	50.06	68.20	-18.14

Table 7-93. Radiated Measurements SISO ANT1 (242 Tones)

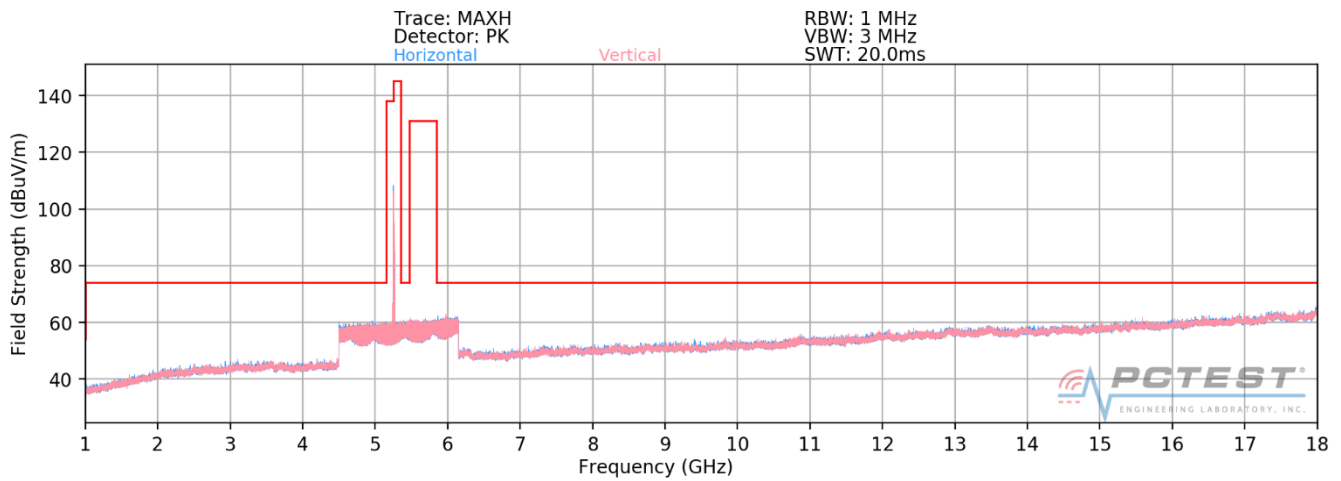
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Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 206 of 265	

7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

106 Tones

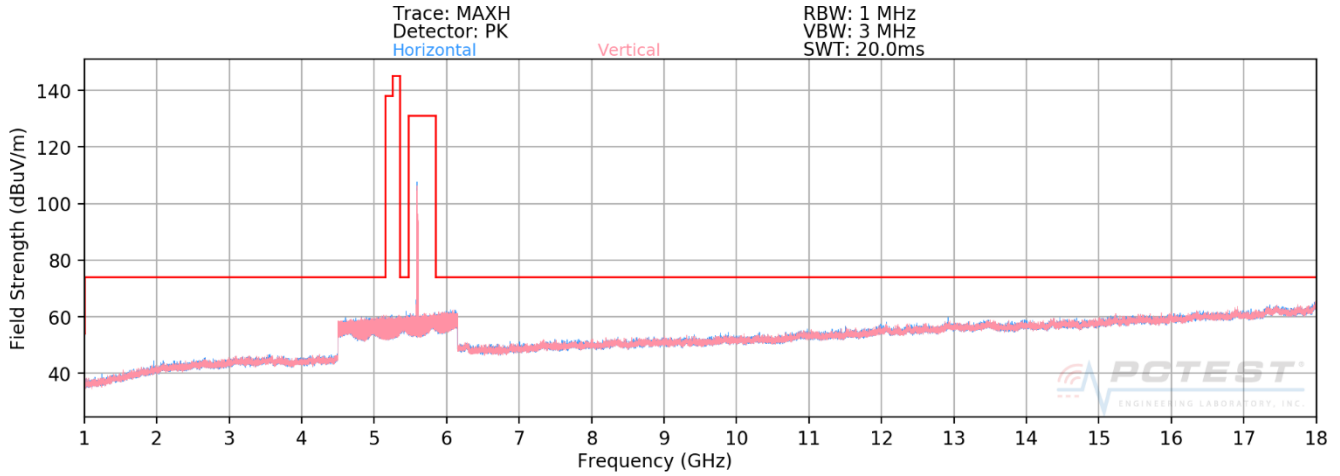


Plot 7-283. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 106 Tones)

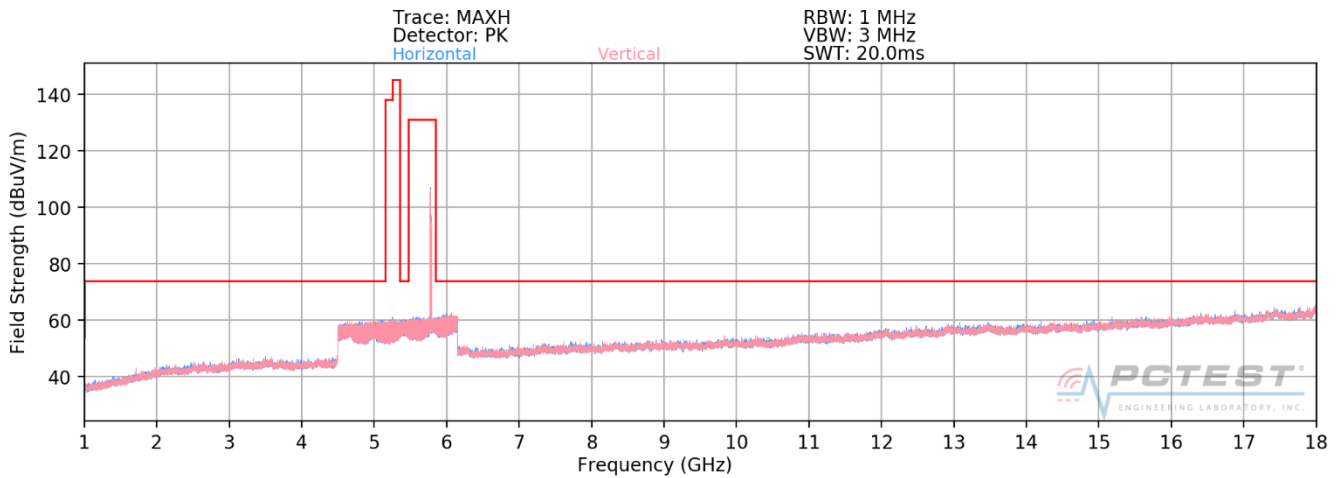


Plot 7-284. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 207 of 265



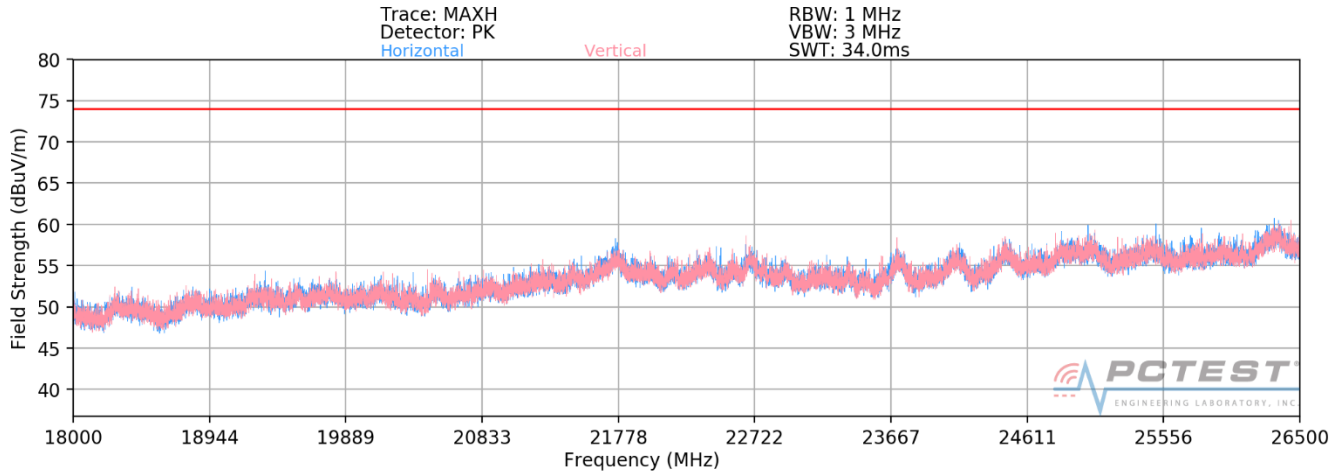
Plot 7-285. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 106 Tones)



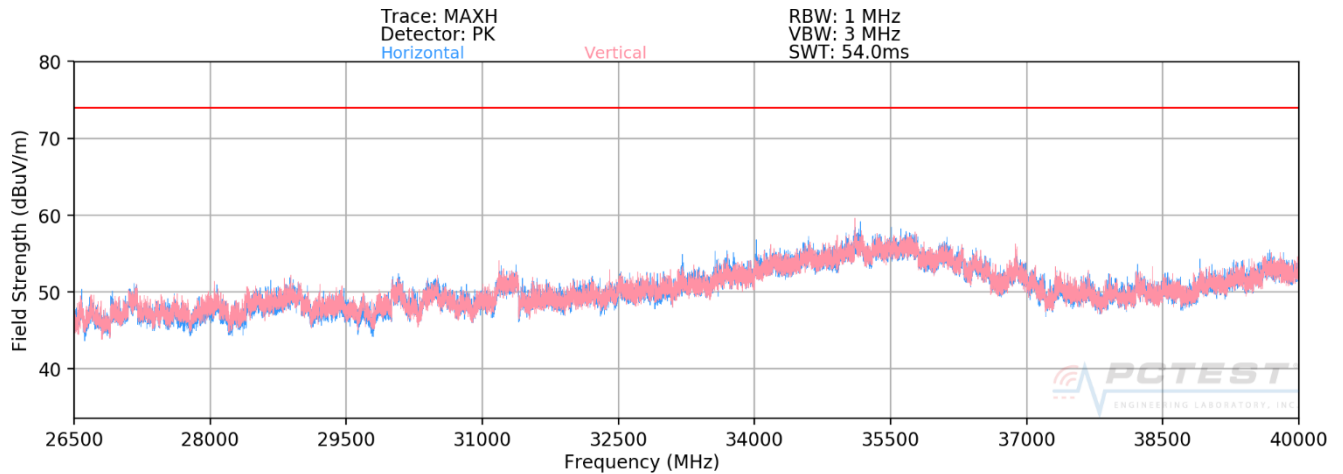
Plot 7-286. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset	Page 208 of 265	

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-287. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 106 Tones)



Plot 7-288. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-06.A3L	Test Dates: 10/11/19 - 01/20/20	EUT Type: Portable Handset		Page 209 of 265