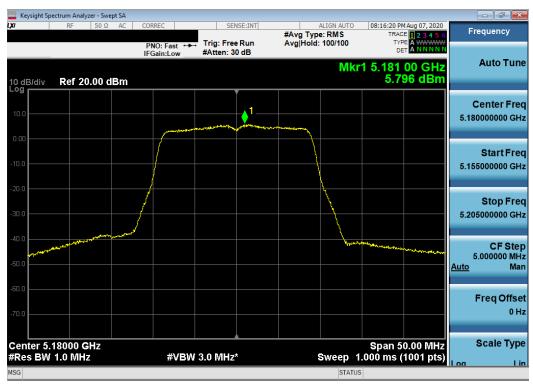


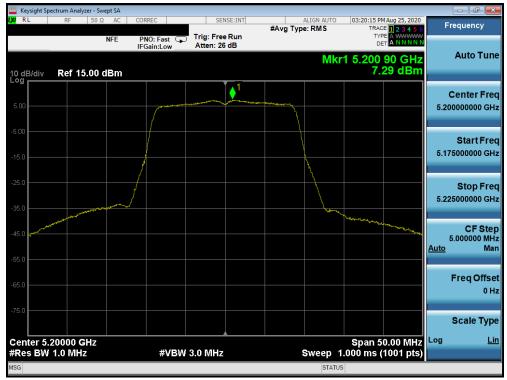
Plot 7-120. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) - Ch. 48)



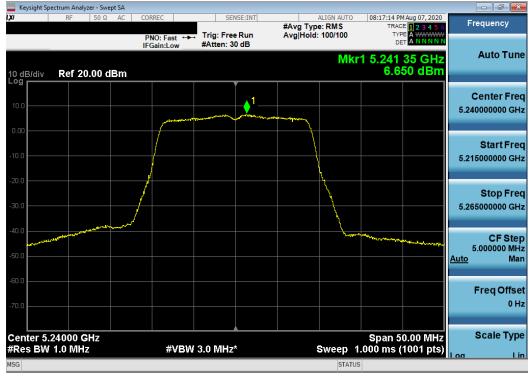
Plot 7-121. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

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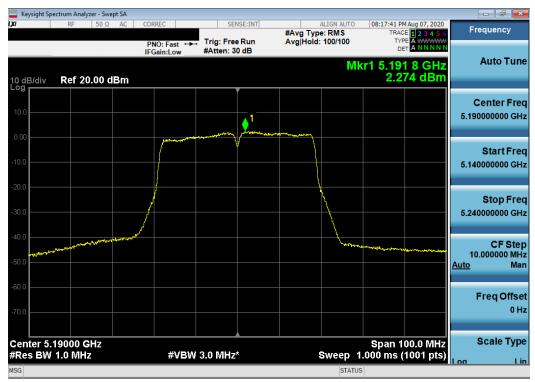
Plot 7-122. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



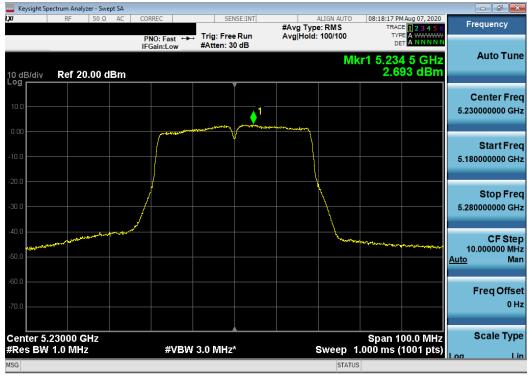
Plot 7-123. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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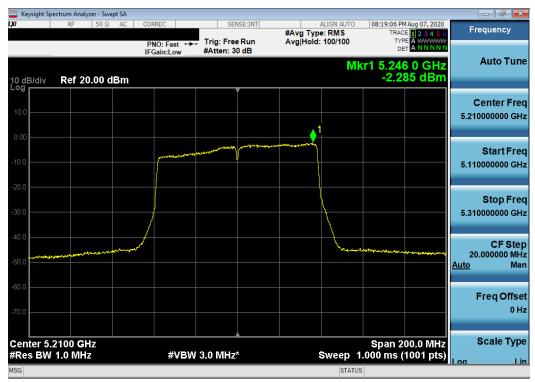
Plot 7-124. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)



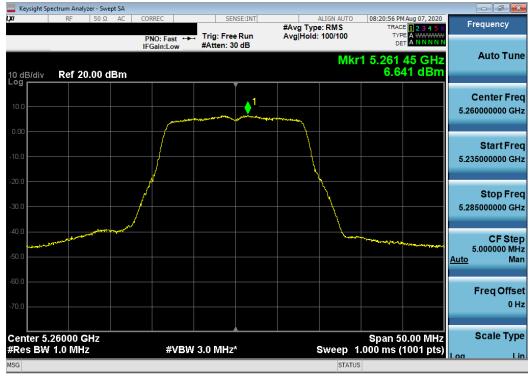
Plot 7-125. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-126. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)



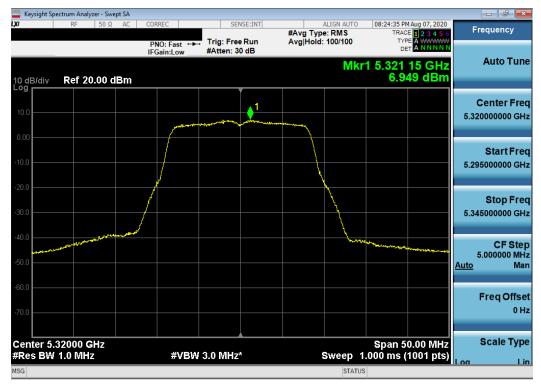
Plot 7-127. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 52)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
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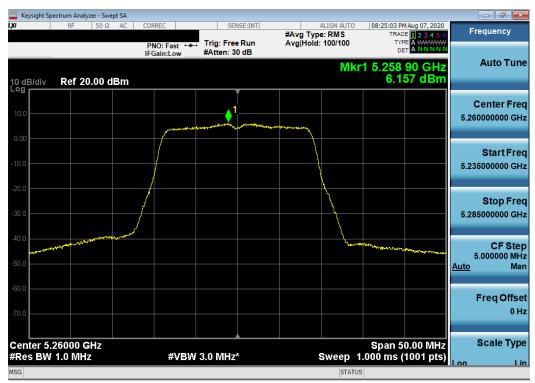
Plot 7-128. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 56)



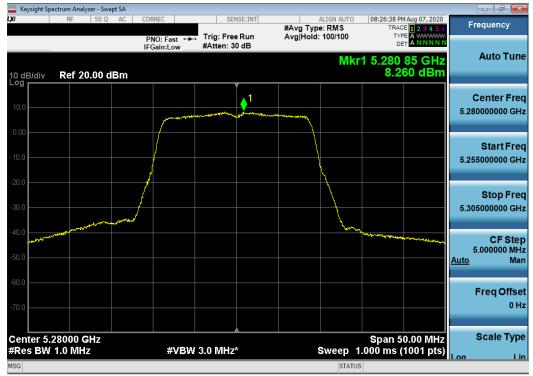
Plot 7-129. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 64)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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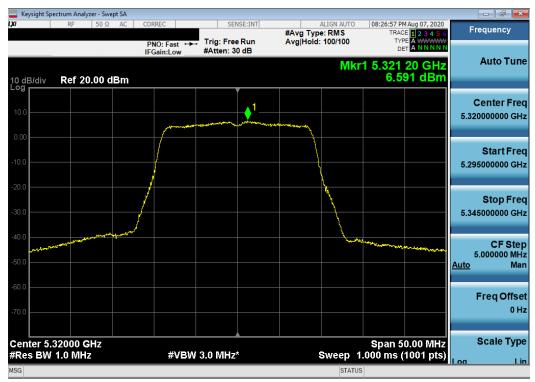
Plot 7-130. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



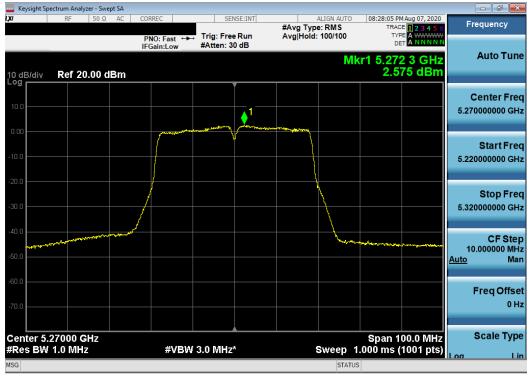
Plot 7-131. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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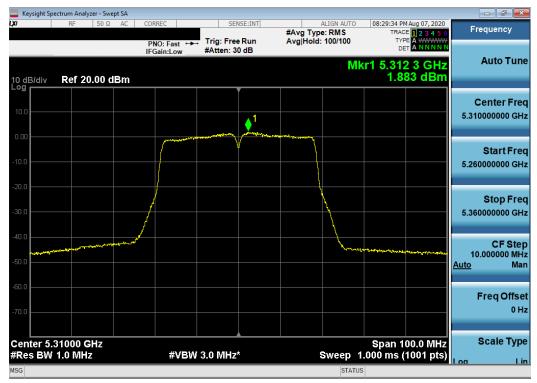
Plot 7-132. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



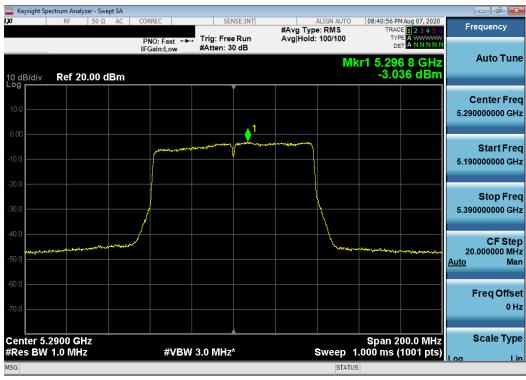
Plot 7-133. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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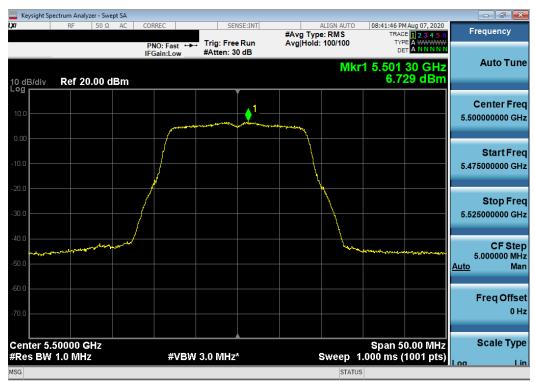
Plot 7-134. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)



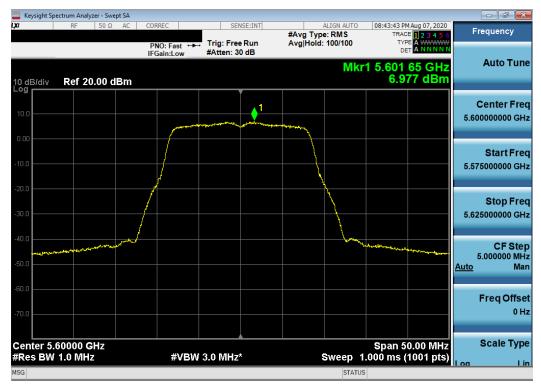
Plot 7-135. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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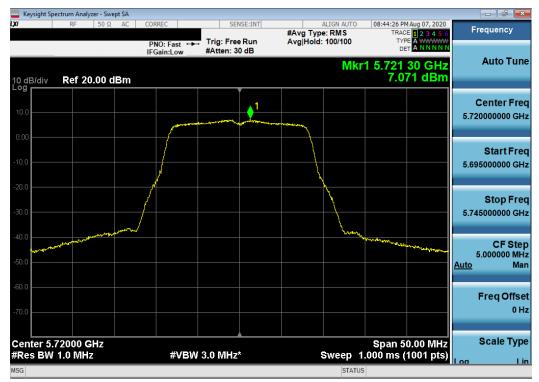
Plot 7-136. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 100)



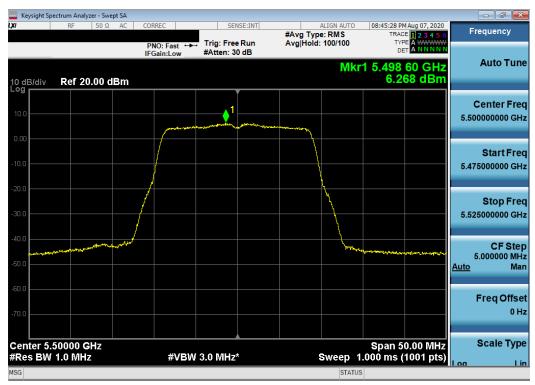
Plot 7-137. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 120

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 00 of 167
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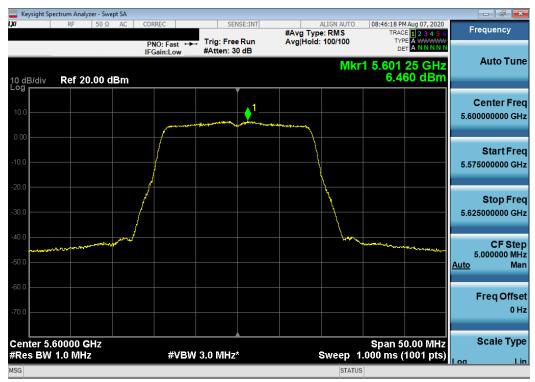
Plot 7-138. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 140



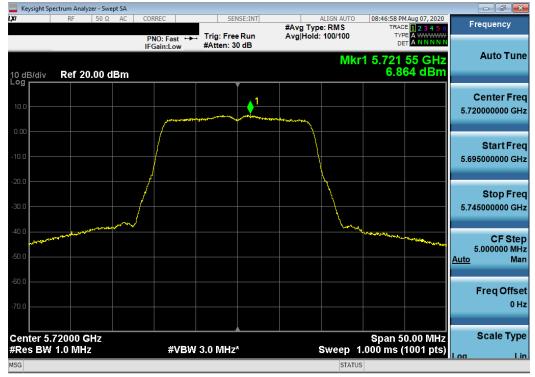
Plot 7-139. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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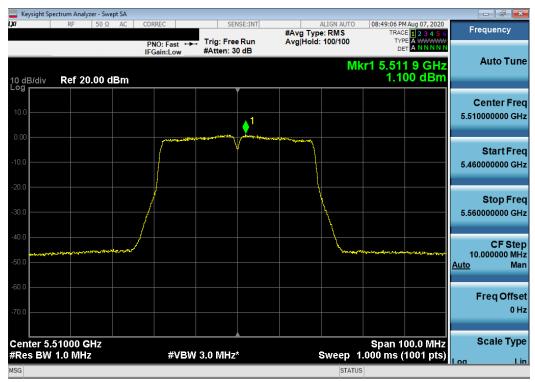
Plot 7-140. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



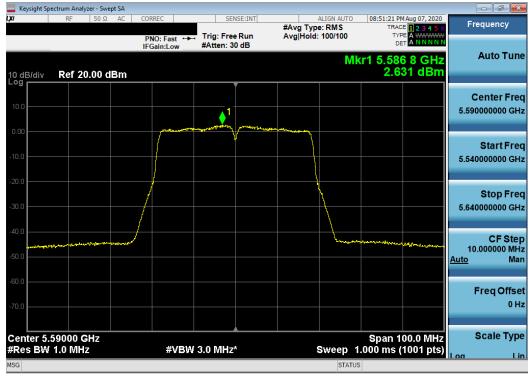
Plot 7-141. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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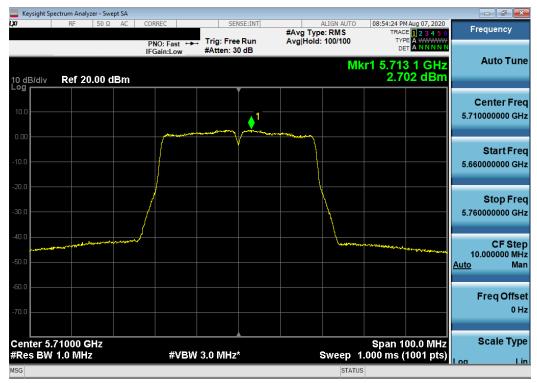
Plot 7-142. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)



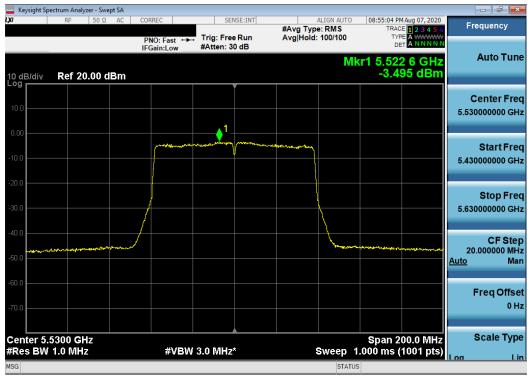
Plot 7-143. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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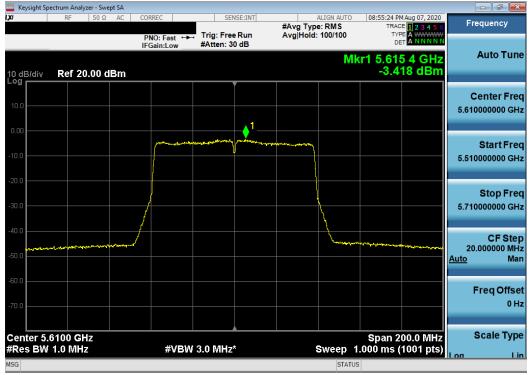
Plot 7-144. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)



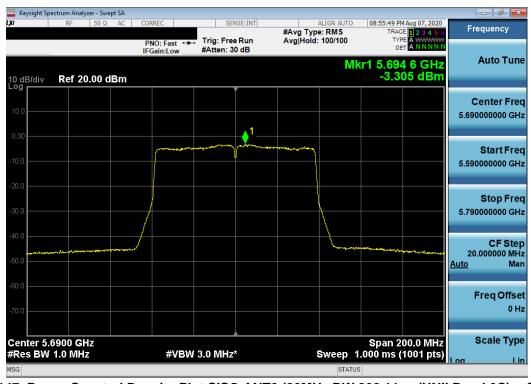
Plot 7-145. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-146. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



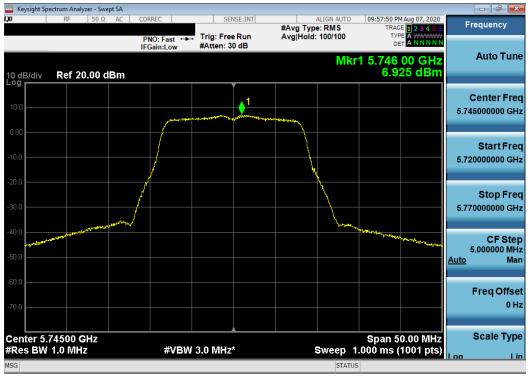
Plot 7-147. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	6.93	30.0	-23.08
	5785	157	а	6	9.07	30.0	-20.93
	5825	165	а	6	8.80	30.0	-21.21
က	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.67	30.0	-23.33
Band	5785	157	n (20MHz)	6.5/7.2 (MCS0)	8.72	30.0	-21.29
ä	5825	165	n (20MHz)	6.5/7.2 (MCS0)	8.28	30.0	-21.72
	5755	151	n (40MHz)	13.5/15 (MCS0)	2.71	30.0	-27.29
	5795	159	n (40MHz)	13.5/15 (MCS0)	2.89	30.0	-27.11
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-2.55	30.0	-32.55

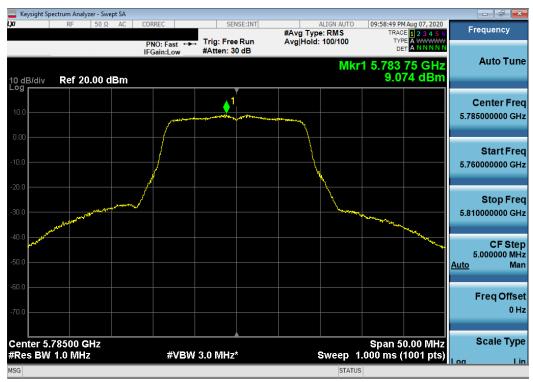
Table 7-21. Band 3 Conducted Power Spectral Density Measurements SISO ANT2



Plot 7-148. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 149)

FCC ID: ZNFK920AM	PCTEST° Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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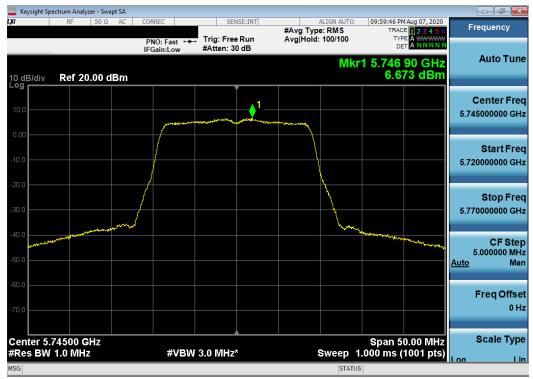
Plot 7-149. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 157)



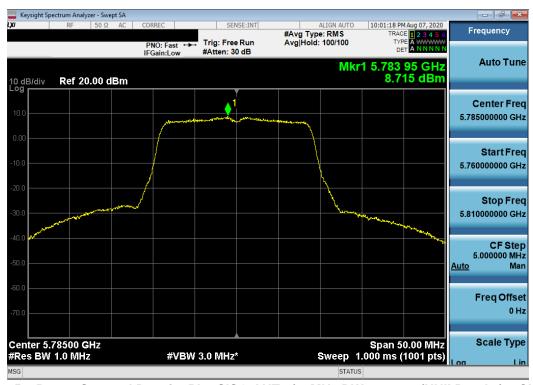
Plot 7-150. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-151. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



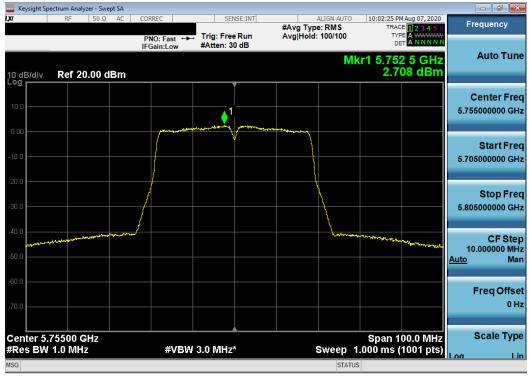
Plot 7-152. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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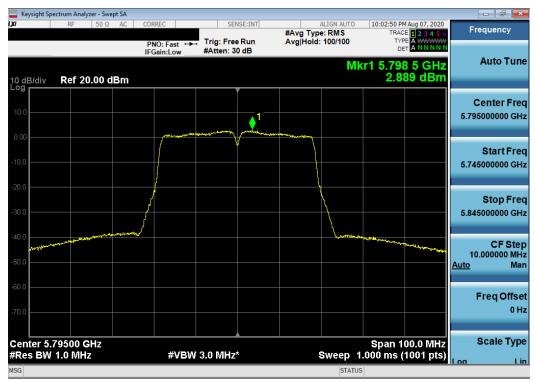
Plot 7-153. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



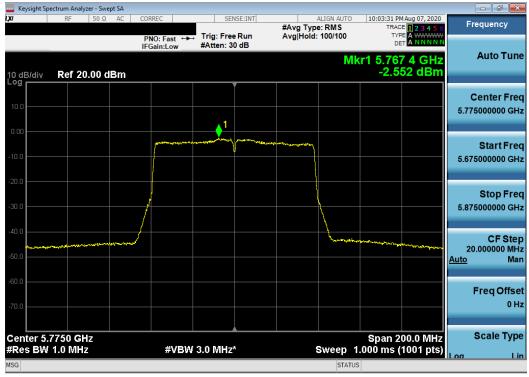
Plot 7-154. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-155. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)



Plot 7-156. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]		Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	а	6	6.55	6.34	9.45	11.0	-1.55
	5200	40	а	6	5.90	7.84	9.99	11.0	-1.01
	5240	48	а	6	6.51	6.74	9.63	11.0	-1.37
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.07	5.80	8.95	11.0	-2.05
and a	5200	40	n (20MHz)	6.5/7.2 (MCS0)	8.08	7.29	10.71	11.0	-0.29
ä	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.10	6.65	9.39	11.0	-1.61
	5190	38	n (40MHz)	13.5/15 (MCS0)	2.22	2.27	5.26	11.0	-5.74
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.52	2.69	5.62	11.0	-5.38
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-3.60	-2.29	0.12	11.0	-10.88
	5260	52	а	6	6.51	6.64	9.59	11.0	-1.41
	5280	56	а	6	6.20	8.66	10.61	11.0	-0.39
	5320	64	а	6	6.92	6.95	9.94	11.0	-1.06
2×	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.12	6.16	9.15	11.0	-1.85
Band 2A	5280	56	n (20MHz)	6.5/7.2 (MCS0)	7.20	8.26	10.77	11.0	-0.23
Ва	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.55	6.59	9.58	11.0	-1.42
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.80	2.58	5.70	11.0	-5.30
	5310	62	n (40MHz)	13.5/15 (MCS0)	1.53	1.88	4.72	11.0	-6.28
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-3.78	-3.04	-0.38	11.0	-11.38
	5500	100	а	6	6.43	6.73	9.59	11.0	-1.41
	5600	120	а	6	6.50	6.98	9.75	11.0	-1.25
	5720	144	а	6	7.10	7.07	10.10	11.0	-0.90
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.08	6.27	9.18	11.0	-1.82
O	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.13	6.46	9.31	11.0	-1.69
d 20	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.74	6.86	9.81	11.0	-1.19
Band 2C	5510	102	n (40MHz)	13.5/15 (MCS0)	0.35	1.10	3.75	11.0	-7.25
Ш	5590	118	n (40MHz)	13.5/15 (MCS0)	2.15	2.63	5.41	11.0	-5.59
	5710	142	n (40MHz)	13.5/15 (MCS0)	2.94	2.70	5.83	11.0	-5.17
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-3.50	-3.50	-0.49	11.0	-11.49
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-4.01	-3.42	-0.69	11.0	-11.69
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-2.94	-3.31	-0.11	11.0	-11.11

Table 7-22. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	7.17	6.93	10.06	30.0	-19.94
	5785	157	а	6	8.64	9.07	11.87	30.0	-18.13
	5825	165	а	6	8.67	8.80	11.74	30.0	-18.26
က	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.83	6.67	9.76	30.0	-20.24
Band	5785	157	n (20MHz)	6.5/7.2 (MCS0)	8.33	8.72	11.53	30.0	-18.47
ä	5825	165	n (20MHz)	6.5/7.2 (MCS0)	8.35	8.28	11.32	30.0	-18.68
	5755	151	n (40MHz)	13.5/15 (MCS0)	2.70	2.71	5.71	30.0	-24.29
	5795	159	n (40MHz)	13.5/15 (MCS0)	2.65	2.89	5.78	30.0	-24.22
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-3.23	-2.55	0.13	30.0	-29.87

Table 7-23. Band 3 MIMO Conducted Power Spectral Density Measurements

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 6.07 dBm for Antenna-1 and 5.80 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(6.07 dBm + 5.80 dBm) = (4.05 mW + 3.80 mW) = 7.85 mW = 8.95 dBm

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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. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), 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 7-24 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-24. 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 > 2 x span/RBW)
- 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.

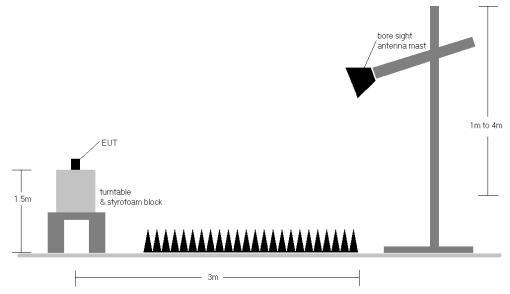


Figure 7-5. Test Instrument & Measurement Setup

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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 7-24.
- 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 7-24. 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. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
- 8. 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.
- 9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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]
- o Margin [dB] = Field Strength Level [dB μ V/m] Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

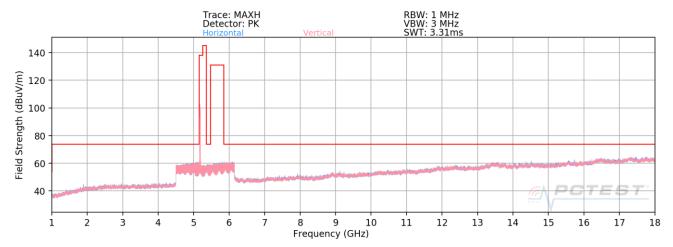
 The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) - Preamplifier Gain

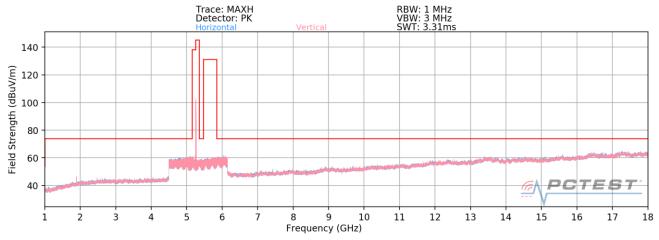
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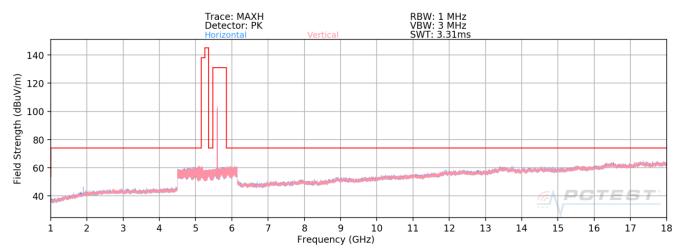
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-157. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U1 Ch. 40)



Plot 7-158. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U2A Ch. 56)



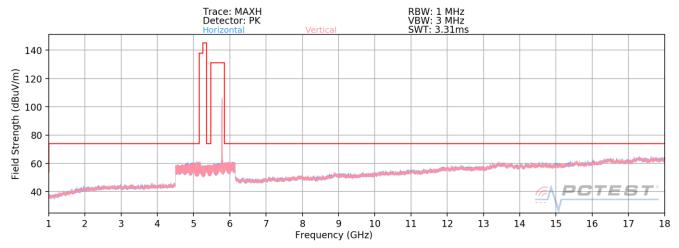
Plot 7-159. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U2C Ch. 116

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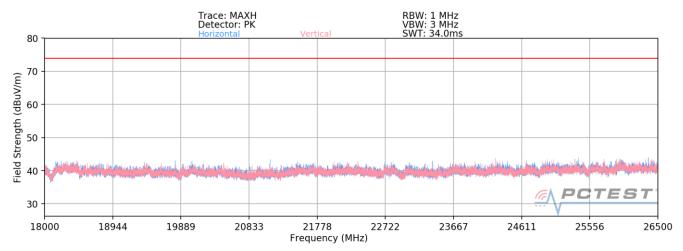


Plot 7-160. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

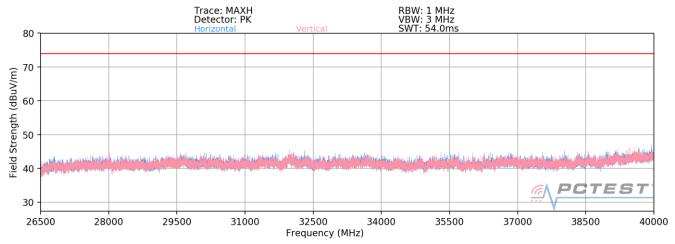
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-161. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-162. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

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SISO Antenna-1 Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	Н	-	-	-71.02	13.20	49.18	68.20	-19.02
15540.00	Average	Н	-	-	-82.26	15.57	40.31	53.98	-13.67
15540.00	Peak	Н	-	-	-72.11	15.57	50.46	73.98	-23.52
20720.00	Average	Н	-	-	-60.10	-3.74	33.62	53.98	-20.36
20720.00	Peak	Н	-	-	-52.82	-3.74	40.90	73.98	-33.08
25900.00	Peak	Н	-	-	-51.99	-3.03	42.44	68.20	-25.76

Table 7-25. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	Н	-	-	-69.98	13.04	50.06	68.20	-18.14
15600.00	Average	Н	-	-	-82.46	15.62	40.16	53.98	-13.81
15600.00	Peak	Н	-	-	-71.98	15.62	50.64	73.98	-23.33
20800.00	Average	Н	-	-	-59.98	-3.76	33.72	53.98	-20.26
20800.00	Peak	Н	-	-	-52.57	-3.76	41.13	73.98	-32.85
26000.00	Peak	Н	-	-	-50.43	-2.81	44.22	68.20	-23.98

Table 7-26. Radiated Measurements SISO ANT1

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	Н	-	-	-71.39	13.14	48.75	68.20	-19.45
15720.00	Average	Н	-	-	-82.23	15.70	40.47	53.98	-13.50
15720.00	Peak	Н	-	-	-71.58	15.70	51.12	73.98	-22.85
20960.00	Average	Н	-	-	-59.54	-3.71	34.21	53.98	-19.77
20960.00	Peak	Н	-	-	-52.78	-3.71	40.97	73.98	-33.01
26200.00	Peak	Н	-	-	-51.30	-2.65	43.50	68.20	-24.70

Table 7-27. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	Н	-	-	-71.56	13.82	49.26	68.20	-18.94
15840.00	Average	Н	-	-	-81.78	16.21	41.43	53.98	-12.55
15840.00	Peak	Н	-	-	-71.42	16.21	51.79	73.98	-22.19
21120.00	Average	Н	-	-	-59.94	-3.66	33.86	53.98	-20.12
21120.00	Peak	Н	-	-	-53.03	-3.66	40.77	73.98	-33.21
26400.00	Peak	Н	-	-	-50.95	-2.63	43.88	68.20	-24.32

Table 7-28. Radiated Measurements SISO ANT1

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5280MHz
Channel: 56

Ant. **Antenna Turntable Analyzer Field** Frequency **AFCL** Margin Limit **Detector** Pol. Height **Azimuth** Level Strength [dBµV/m] [MHz] [dB/m][dB] [dBµV/m] [H/V] [cm] [degree] [dBm] 10560.00 Peak Н -71.56 68.20 -18.94 13.82 49.26 15840.00 Н -81.78 16.21 41.43 53.98 -12.55 Average 15840.00 Peak Н -71.42 16.21 51.79 73.98 -22.19 21120.00 Average Н -59.94 -3.6633.86 53.98 -20.1221120.00 Peak Н -53.03 -3.6640.77 73.98 -33.21 26400.00 Peak Н -50.95 -2.6343.88 68.20 -24.32

Table 7-29. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	Н	-	-	-81.09	13.62	39.53	53.98	-14.45
10640.00	Peak	Н	-	-	-70.84	13.62	49.78	73.98	-24.20
15960.00	Average	Н	-	-	-82.03	16.07	41.04	53.98	-12.94
15960.00	Peak	Н	-	-	-71.25	16.07	51.82	73.98	-22.16
21280.00	Average	Н	-	-	-60.02	-3.58	33.85	53.98	-20.13
21280.00	Peak	Н	-	-	-52.20	-3.58	41.67	73.98	-32.31
26600.00	Peak	Н	-	-	-51.43	-2.25	43.78	68.20	-24.42

Table 7-30. Radiated Measurements SISO ANT1

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	Н	-	-	-81.61	13.61	39.00	53.98	-14.98
11000.00	Peak	Н	-	-	-71.51	13.61	49.10	73.98	-24.88
16500.00	Peak	Н	-	-	-70.80	15.92	52.12	68.20	-16.08
22000.00	Peak	Н	-	-	-52.26	-3.43	41.77	68.20	-26.43
27500.00	Peak	Н	-	-	-52.04	-2.72	42.70	68.20	-25.50

Table 7-31. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5580MHz Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11160.00	Average	Н	-	-	-81.50	14.40	39.90	53.98	-14.08
11160.00	Peak	Н	-	-	-71.37	14.40	50.03	73.98	-23.95
16740.00	Peak	Н	-	-	-71.59	16.65	52.06	68.20	-16.14
22320.00	Average	Н	-	-	-59.06	-3.59	34.80	53.98	-19.18
22320.00	Peak	Н	-	-	-51.57	-3.59	42.29	73.98	-31.69
27900.00	Peak	Н	-	-	-51.52	-2.12	43.82	68.20	-24.38

Table 7-32. Radiated Measurements SISO ANT1

FCC ID: ZNFK920AM	PCTEST° Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5700z Channel: 140

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	Н	-	-	-81.91	14.84	39.93	53.98	-14.05
11440.00	Peak	Н	-	-	-71.73	14.84	50.11	73.98	-23.87
17160.00	Peak	Н	-	-	-72.00	17.81	52.81	68.20	-15.39
22880.00	Average	Н	-	-	-59.21	-3.38	34.87	53.98	-19.11
22880.00	Peak	Н	-	-	-51.71	-3.38	42.37	73.98	-31.61
28600.00	Peak	Н	-	-	-52.60	-2.02	42.84	68.20	-25.36

Table 7-33. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

1 & 3 Meters Distance of Measurements: Operating Frequency: 5745MHz

Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	Н	-	-	-82.18	14.48	39.30	53.98	-14.68
11490.00	Peak	Н	-	-	-71.77	14.48	49.71	73.98	-24.27
17235.00	Peak	Н	-	-	-71.68	18.39	53.71	68.20	-14.49
22980.00	Average	Н	-	-	-59.30	-3.46	34.70	53.98	-19.28
22980.00	Peak	Н	-	-	-51.99	-3.46	42.01	73.98	-31.97
28725.00	Peak	Н	-	-	-51.38	-2.02	44.05	68.20	-24.15

Table 7-34, Radiated Measurements SISO ANT1

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5785MHz

157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	Н	-	-	-81.35	15.15	40.80	53.98	-13.18
11570.00	Peak	Н	-	-	-71.56	15.15	50.59	73.98	-23.39
17355.00	Peak	Н	-	-	-71.28	19.75	55.47	68.20	-12.73
23140.00	Peak	Н	-	-	-51.37	-3.47	42.62	68.20	-25.58
28925.00	Peak	Н	-	-	-52.13	-2.31	43.02	68.20	-25.18

Table 7-35. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	Н	-	-	-81.34	14.49	40.15	53.98	-13.83
11650.00	Peak	Н	-	-	-70.92	14.49	50.57	73.98	-23.41
17475.00	Peak	Н	-	-	-72.52	21.13	55.61	68.20	-12.59
23300.00	Peak	Н	-	-	-51.90	-3.52	42.04	68.20	-26.16
29125.00	Peak	Н	-	-	-51.23	-1.91	44.32	68.20	-23.88

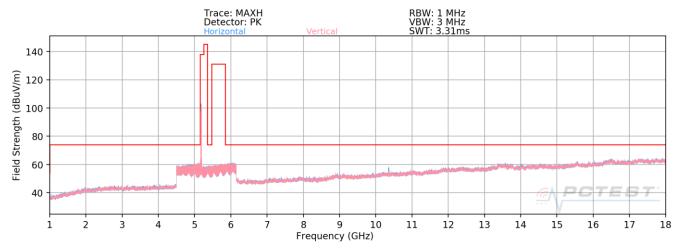
Table 7-36. Radiated Measurements SISO ANT1

FCC ID: ZNFK920AM	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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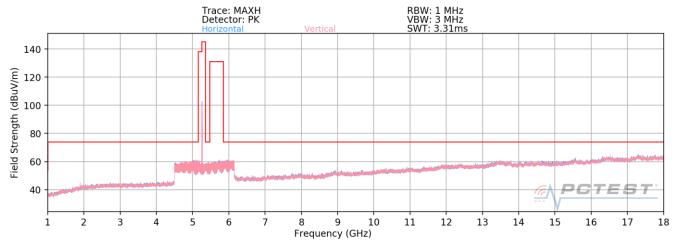
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7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements



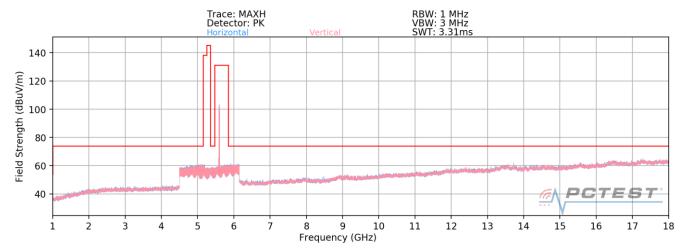
Plot 7-163. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U1 Ch. 40)



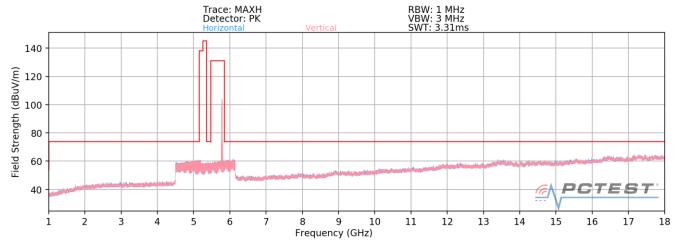
Plot 7-164. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2A Ch. 56)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-165. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2C Ch. 116)

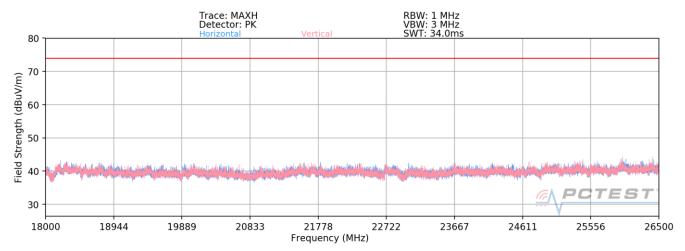


Plot 7-166. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

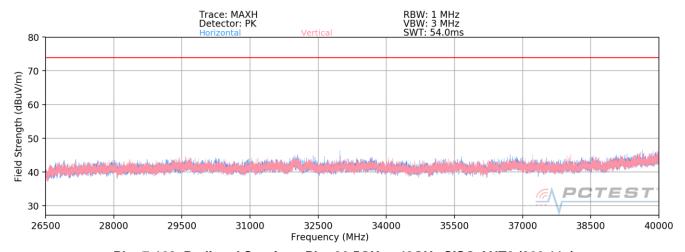
FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-167. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-168. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	٧	100	87	-66.24	13.20	53.96	68.20	-14.24
15540.00	Average	V	-	-	-82.30	15.57	40.27	53.98	-13.71
15540.00	Peak	V	-	-	-71.89	15.57	50.68	73.98	-23.30
20720.00	Average	V	-	-	-60.06	-3.74	33.66	53.98	-20.32
20720.00	Peak	V	-	-	-52.00	-3.74	41.72	73.98	-32.26
25900.00	Peak	V	-	-	-51.83	-3.03	42.60	68.20	-25.60

Table 7-37. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5200MHz

Cite	uniei.		40						
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	100	76	-64.25	13.04	55.79	68.20	-12.41
15600.00	Average	V	-	-	-82.45	15.62	40.17	53.98	-13.80
15600.00	Peak	V	-	-	-72.11	15.62	50.51	73.98	-23.46
20800.00	Average	V	-	-	-59.75	-3.76	33.95	53.98	-20.03
20800.00	Peak	V	-	-	-52.57	-3.76	41.13	73.98	-32.85
26000.00	Peak	V	-	-	-51.11	-2.81	43.54	68.20	-24.66

Table 7-38. Radiated Measurements SISO ANT2

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	٧	100	72	-68.20	13.14	51.94	68.20	-16.26
15720.00	Average	٧	-	-	-82.35	15.70	40.35	53.98	-13.62
15720.00	Peak	V	-	-	-72.16	15.70	50.54	73.98	-23.43
20960.00	Average	V	-	-	-59.41	-3.71	34.34	53.98	-19.64
20960.00	Peak	V	-	-	-52.46	-3.71	41.29	73.98	-32.69
26200.00	Peak	V	-	-	-51.56	-2.65	43.24	68.20	-24.96

Table 7-39. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

1 & 3 Meters Distance of Measurements: Operating Frequency: 5260MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	V	161	361	-67.03	13.01	52.98	68.20	-15.22
15780.00	Average	V	-	-	-82.71	16.29	40.58	53.98	-13.40
15780.00	Peak	V	-	-	-71.92	16.29	51.37	73.98	-22.61
21040.00	Average	V	-	-	-59.76	-3.87	33.83	53.98	-20.15
21040.00	Peak	V	-	-	-52.07	-3.87	41.52	73.98	-32.46
26300.00	Peak	V	-	-	-51.29	-2.82	43.35	68.20	-24.85

Table 7-40. Radiated Measurements SISO ANT2

FCC ID: ZNFK920AM	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	٧	149	0	-67.37	13.82	53.45	68.20	-14.75
15840.00	Average	V	-	-	-82.03	16.21	41.18	53.98	-12.80
15840.00	Peak	V	-	-	-71.17	16.21	52.04	73.98	-21.94
21120.00	Average	V	-	-	-59.95	-3.66	33.85	53.98	-20.13
21120.00	Peak	V	-	-	-52.99	-3.66	40.81	73.98	-33.17
26400.00	Peak	V	-	-	-50.98	-2.63	43.85	68.20	-24.35

Table 7-41. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	>	136	322	-80.76	13.62	39.86	53.98	-14.12
10640.00	Peak	٧	136	322	-70.45	13.62	50.17	73.98	-23.81
15960.00	Average	V	-	-	-82.35	16.07	40.72	53.98	-13.26
15960.00	Peak	V	-	-	-71.93	16.07	51.14	73.98	-22.84
21280.00	Average	V	-	-	-60.08	-3.58	33.79	53.98	-20.19
21280.00	Peak	V	-	-	-52.39	-3.58	41.48	73.98	-32.50
26600.00	Peak	V	-	-	-51.32	-2.25	43.89	68.20	-24.31

Table 7-42. Radiated Measurements SISO ANT2

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	V	100	0	-77.57	13.61	43.04	53.98	-10.94
11000.00	Peak	٧	100	0	-67.08	13.61	53.53	73.98	-20.45
16500.00	Peak	V	-	-	-71.34	15.92	51.58	68.20	-16.62
22000.00	Peak	V	-	-	-52.19	-3.43	41.84	68.20	-26.36
27500.00	Peak	V	-	-	-51.88	-2.72	42.86	68.20	-25.34

Table 7-43. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz

Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11160.00	Average	V	106	346	-75.25	14.40	46.15	53.98	-7.83
11160.00	Peak	V	106	346	-64.11	14.40	57.29	73.98	-16.69
16740.00	Peak	V	-	-	-72.19	16.65	51.46	68.20	-16.74
22320.00	Average	V	-	-	-59.04	-3.59	34.82	53.98	-19.16
22320.00	Peak	V	-	-	-51.69	-3.59	42.17	73.98	-31.81
27900.00	Peak	V	-	-	-51.26	-2.12	44.08	68.20	-24.12

Table 7-44. Radiated Measurements SISO ANT2

FCC ID: ZNFK920AM	PCTEST° Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5700MHz

140

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	V	164	359	-76.84	14.84	45.00	53.98	-8.98
11440.00	Peak	٧	164	359	-67.77	14.84	54.07	73.98	-19.91
17160.00	Peak	V	-	-	-72.09	17.81	52.72	68.20	-15.48
22880.00	Average	V	-	-	-59.16	-3.38	34.92	53.98	-19.06
22880.00	Peak	V	-	-	-51.79	-3.38	42.29	73.98	-31.69
28600.00	Peak	V	-	-	-52.09	-2.02	43.35	68.20	-24.85

Table 7-45. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	V	147	358	-79.99	14.48	41.49	53.98	-12.49
11490.00	Peak	V	147	358	-70.29	14.48	51.19	73.98	-22.79
17235.00	Peak	V	-	-	-71.83	18.39	53.56	68.20	-14.64
22980.00	Average	V	-	-	-59.33	-3.46	34.67	53.98	-19.31
22980.00	Peak	V	-	-	-52.27	-3.46	41.73	73.98	-32.25
28725.00	Peak	V	-	-	-50.94	-2.02	44.49	68.20	-23.71

Table 7-46. Radiated Measurements SISO ANT2

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	V	106	354	-75.01	15.15	47.14	53.98	-6.84
11570.00	Peak	V	106	354	-62.05	15.15	60.10	73.98	-13.88
17355.00	Peak	V	-	-	-71.45	19.75	55.30	68.20	-12.90
23140.00	Peak	V	-	-	-52.22	-3.47	41.77	68.20	-26.43
28925.00	Peak	V	-	-	-52.05	-2.31	43.10	68.20	-25.10

Table 7-47. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	V	215	345	-76.02	14.49	45.47	53.98	-8.51
11650.00	Peak	٧	215	345	-63.61	14.49	57.88	73.98	-16.10
17475.00	Peak	V	-	-	-71.50	21.13	56.63	68.20	-11.57
23300.00	Peak	V	-	-	-52.32	-3.52	41.62	68.20	-26.58
29125.00	Peak	V	-	-	-51.66	-1.91	43.89	68.20	-24.31

Table 7-48. Radiated Measurements SISO ANT2

FCC ID: ZNFK920AM	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.3 MIMO Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	٧	100	126	-62.56	13.20	57.64	68.20	-10.56
15540.00	Average	V	-	-	-82.51	15.57	40.06	53.98	-13.92
15540.00	Peak	V	-	-	-72.03	15.57	50.54	73.98	-23.44
20720.00	Average	V	-	-	-60.03	-3.74	33.69	53.98	-20.29
20720.00	Peak	V	-	-	-51.81	-3.74	41.91	73.98	-32.07
25900.00	Peak	V	-	-	-51.62	-3.03	42.81	68.20	-25.39

Table 7-49. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters Operating Frequency: 5200MHz

- 0110	u ii ici.		1 0						
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	103	109	-63.94	13.04	56.10	68.20	-12.10
15600.00	Average	٧	-	-	-82.63	15.62	39.99	53.98	-13.98
15600.00	Peak	٧	-	-	-71.87	15.62	50.75	73.98	-23.22
20800.00	Average	٧	-	-	-59.87	-3.76	33.83	53.98	-20.15
20800.00	Peak	٧	-	-	-52.04	-3.76	41.66	73.98	-32.32
26000.00	Peak	٧	-	-	-51.31	-2.81	43.34	68.20	-24.86

Table 7-50. Radiated Measurements MIMO

FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5240MHz

48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	٧	101	90	-69.42	13.14	50.72	68.20	-17.48
15720.00	Average	٧	-	-	-82.49	15.70	40.21	53.98	-13.76
15720.00	Peak	V	-	-	-71.19	15.70	51.51	73.98	-22.46
20960.00	Average	V	-	-	-59.45	-3.71	34.30	53.98	-19.68
20960.00	Peak	V	-	-	-51.23	-3.71	42.52	73.98	-31.46
26200.00	Peak	V	-	-	-51.07	-2.65	43.73	68.20	-24.47

Table 7-51. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5260MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	٧	166	61	-68.06	13.01	51.95	68.20	-16.25
15780.00	Average	V	-	-	-82.48	16.29	40.81	53.98	-13.17
15780.00	Peak	V	-	-	-71.90	16.29	51.39	73.98	-22.59
21040.00	Average	V	-	-	-59.55	-3.87	34.04	53.98	-19.94
21040.00	Peak	V	-	-	-51.90	-3.87	41.69	73.98	-32.29
26300.00	Peak	V	-	-	-51.49	-2.82	43.15	68.20	-25.05

Table 7-52. Radiated Measurements MIMO

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	V	155	55	-68.12	13.82	52.70	68.20	-15.50
15840.00	Average	V	-	-	-82.09	16.21	41.12	53.98	-12.86
15840.00	Peak	V	-	-	-71.77	16.21	51.44	73.98	-22.54
21120.00	Average	V	-	-	-59.93	-3.66	33.87	53.98	-20.11
21120.00	Peak	V	-	-	-52.57	-3.66	41.23	73.98	-32.75
26400.00	Peak	V	-	-	-51.36	-2.63	43.47	68.20	-24.73

Table 7-53. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Cital	11101.								
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	V	120	53	-80.90	13.62	39.72	53.98	-14.26
10640.00	Peak	V	120	53	-70.55	13.62	50.07	73.98	-23.91
15960.00	Average	V	-	-	-82.18	16.07	40.89	53.98	-13.09
15960.00	Peak	V	-	-	-72.21	16.07	50.86	73.98	-23.12
21280.00	Average	V		-	-59.97	-3.58	33.90	53.98	-20.08
21280.00	Peak	V	-	-	-52.20	-3.58	41.67	73.98	-32.31
26600.00	Peak	V	-	-	-51.78	-2.25	43.43	68.20	-24.77

Table 7-54. Radiated Measurements MIMO

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 124 of 167
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5500MHz

100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	٧	100	357	-77.56	13.61	43.05	53.98	-10.93
11000.00	Peak	V	100	357	-67.19	13.61	53.42	73.98	-20.56
16500.00	Peak	V	-	-	-71.45	15.92	51.47	68.20	-16.73
22000.00	Peak	V	-	-	-51.90	-3.43	42.13	68.20	-26.07
27500.00	Peak	V	-	-	-51.49	-2.72	43.25	68.20	-24.95

Table 7-55. Radiated Measurements MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5580MHz

116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11160.00	Average	٧	105	349	-75.62	14.40	45.78	53.98	-8.20
11160.00	Peak	٧	105	349	-65.77	14.40	55.63	73.98	-18.35
16740.00	Peak	V	-	-	-71.87	16.65	51.78	68.20	-16.42
22320.00	Average	V	-	-	-59.25	-3.59	34.61	53.98	-19.37
22320.00	Peak	V	-	-	-51.84	-3.59	42.02	73.98	-31.96
27900.00	Peak	V	-	-	-52.10	-2.12	43.24	68.20	-24.96

Table 7-56. Radiated Measurements MIMO

FCC ID: ZNFK920AM	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 125 of 167
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5700MHz

Channel: 140

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	V	151	358	-77.72	14.84	44.12	53.98	-9.86
11440.00	Peak	V	151	358	-66.01	14.84	55.83	73.98	-18.15
17160.00	Peak	V	-	-	-72.21	17.81	52.60	68.20	-15.60
22880.00	Average	V	-	-	-59.19	-3.38	34.89	53.98	-19.09
22880.00	Peak	V	-	-	-51.66	-3.38	42.42	73.98	-31.56
28600.00	Peak	V	-	-	-51.77	-2.02	43.67	68.20	-24.53

Table 7-57. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	٧	100	1	-78.38	14.48	43.10	53.98	-10.88
11490.00	Peak	V	100	1	-67.40	14.48	54.08	73.98	-19.90
17235.00	Peak	V	-	-	-71.71	18.39	53.68	68.20	-14.52
22980.00	Average	V	-	-	-63.52	-3.46	30.48	53.98	-23.50
22980.00	Peak	V	-	-	-51.86	-3.46	42.14	73.98	-31.84
28725.00	Peak	V	-	-	-50.84	-2.02	44.59	69.20	-24.61

Table 7-58. Radiated Measurements MIMO

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5785MHz

157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	٧	-	-	-83.79	21.94	45.15	53.98	-8.83
11570.00	Peak	V	-	-	-67.65	21.94	61.29	73.98	-12.69
17355.00	Peak	V	-	-	-71.31	19.75	55.44	68.20	-12.76
23140.00	Peak	V	-	-	-51.32	-3.47	42.67	68.20	-25.53
28925.00	Peak	V	-	-	-52.27	-2.31	42.88	68.20	-25.32

Table 7-59. Radiated Measurements MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5825MHz

165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	V	161	348	-73.78	14.49	47.71	53.98	-6.27
11650.00	Peak	V	161	348	-60.68	14.49	60.81	73.98	-13.17
17475.00	Peak	V	-	-	-71.65	21.13	56.48	68.20	-11.72
23300.00	Peak	V	-	-	-52.24	-3.52	41.70	68.20	-26.50
29125.00	Peak	V	-	-	-52.19	-1.91	43.36	68.20	-24.84

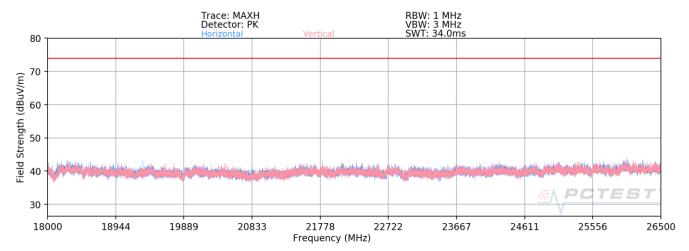
Table 7-60. Radiated Measurements MIMO

FCC ID: ZNFK920AM	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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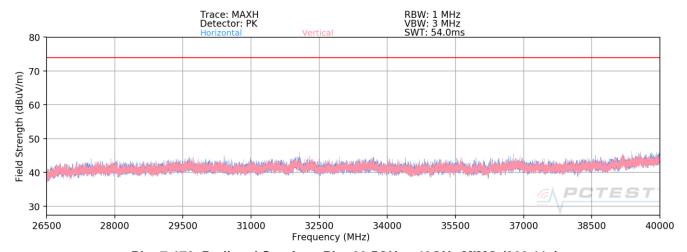
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-169. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a)



Plot 7-170. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

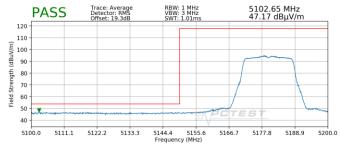
FCC ID: ZNFK920AM	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 138 of 167
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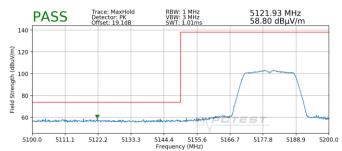
7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5180MHz
36



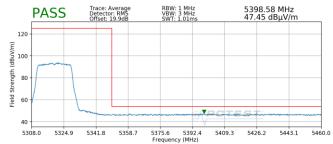
Plot 7-171. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)



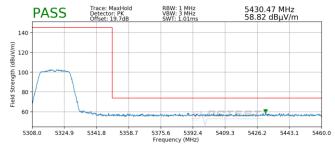
Plot 7-172. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5320MHz
64



Plot 7-173. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



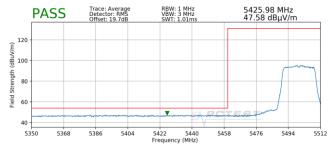
Plot 7-174. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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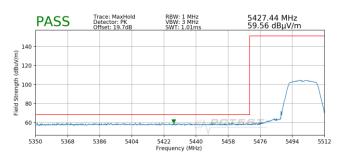


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5500MHz
100

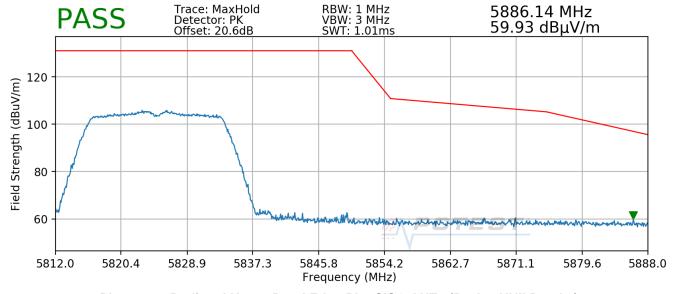


Plot 7-175. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-176. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165



Plot 7-177. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: ZNFK920AM	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 140 of 167
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7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

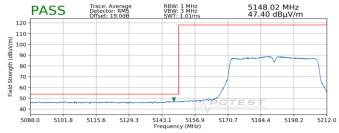
802.11n

MCS0

3 Meters

5190MHz

38



Plot 7-178. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)



Plot 7-179. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

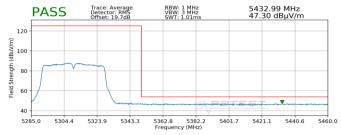
802.11n

MCS0

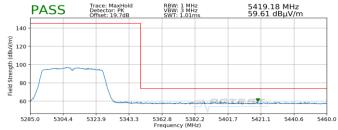
3 Meters

5310MHz

62



Plot 7-180. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



Plot 7-181. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 141 of 167
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

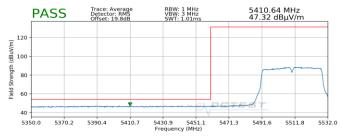
802.11n

MCS0

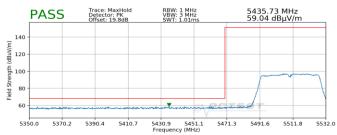
3 Meters

5510MHz

102



Plot 7-182. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-183. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

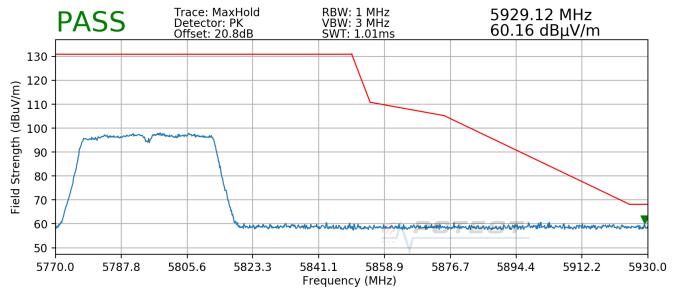
Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5795MHz

Channel: 159



Plot 7-184. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3)

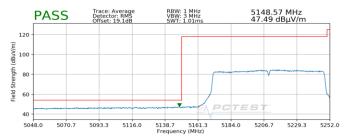
FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 142 of 167
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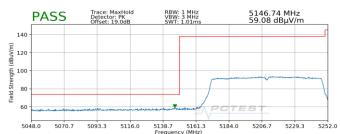
7.6.6 SISO Antenna-1Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5210MHz
42



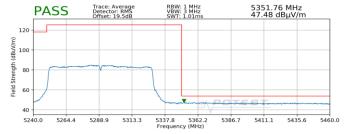
Plot 7-185. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)



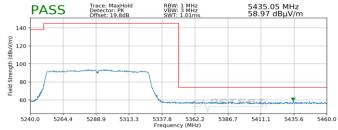
Plot 7-186. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5290MHz
58



Plot 7-187. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



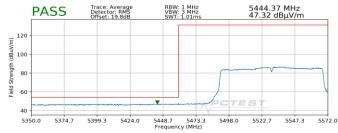
Plot 7-188. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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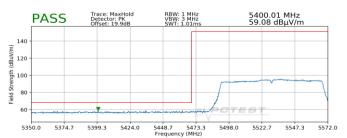


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5530MHz
106

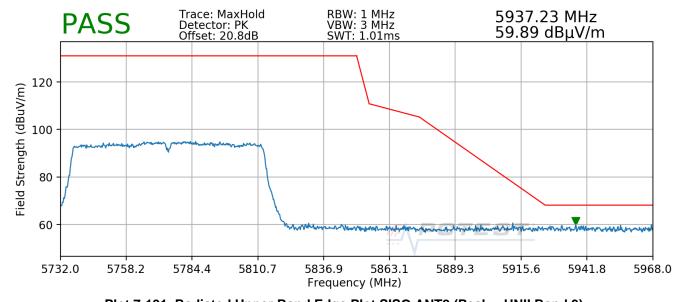


Plot 7-189. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-190. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155



Plot 7-191. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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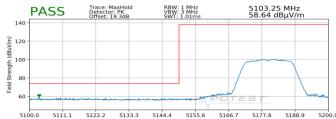
7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5180MHz
36



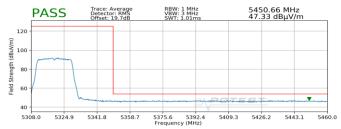
Plot 7-192. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)



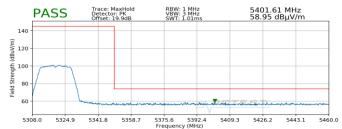
Plot 7-193. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5320MHz
64



Plot 7-194. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



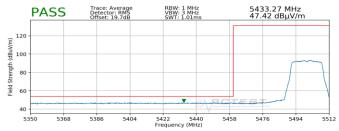
Plot 7-195. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 145 of 167
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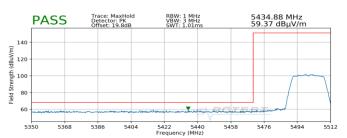


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5500MHz
100

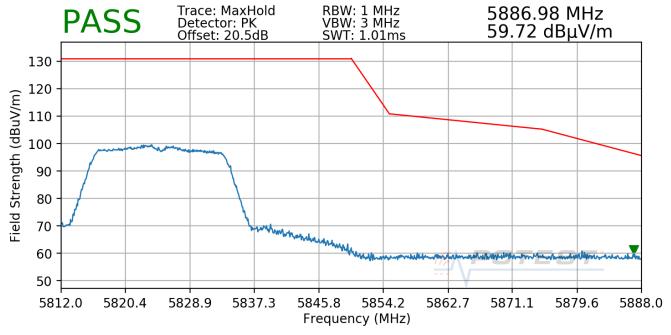


Plot 7-196. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-197. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165



Plot 7-198. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3)

FCC ID: ZNFK920AM	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n

MCS0

3 Meters

5190MHz

38



Plot 7-199. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)



Plot 7-200. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

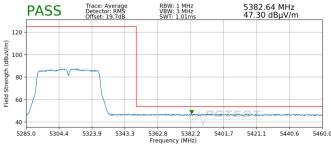
802.11n

MCS0

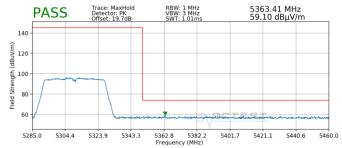
3 Meters

5310MHz

62



Plot 7-201. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-202. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

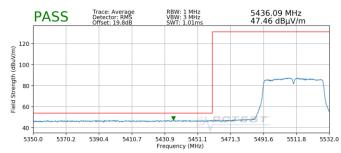
802.11n

MCS0

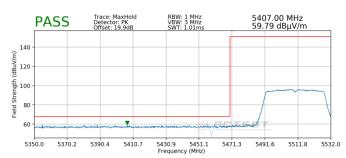
3 Meters

5510MHz

102



Plot 7-203. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-204. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

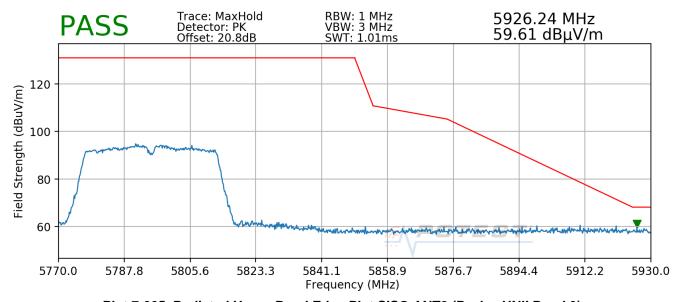
802.11n

MCS0

3 Meters

5795MHz

159



Plot 7-205. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

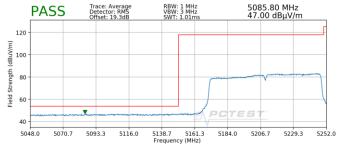
FCC ID: ZNFK920AM	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 149 of 167
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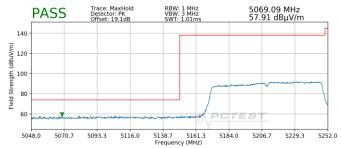
7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5210MHz
42



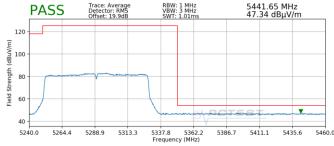
Plot 7-206. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)



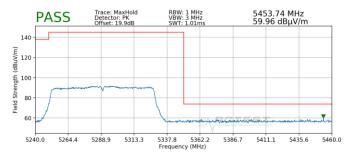
Plot 7-207. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5290MHz
58



Plot 7-208. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



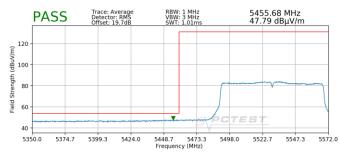
Plot 7-209. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFK920AM	PCTEST* Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 140 of 167
1M2007130107-06.ZNF	07/30/2020 - 09/03/2020	Portable Handset		Page 149 of 167

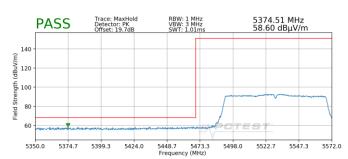


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5530MHz
106

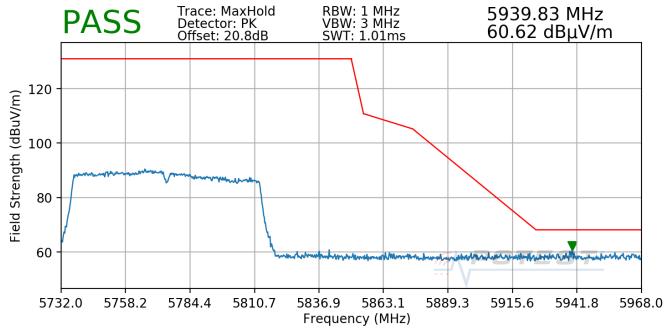


Plot 7-210. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-211. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155



Plot 7-212. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3)

FCC ID: ZNFK920AM	PCTEST° Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	🕦 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 150 of 167
1M2007130107-06.ZNF	07/30/2020 - 09/03/2020	Portable Handset		Page 150 of 167
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