

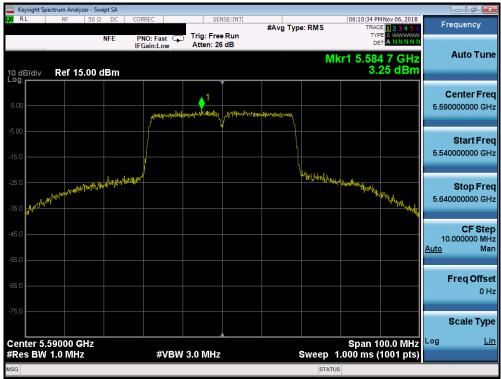
Plot 7-237. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



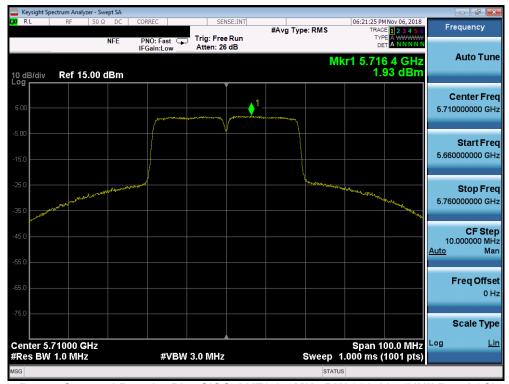
Plot 7-238. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

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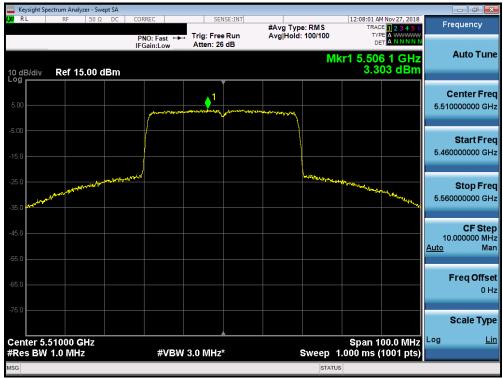
Plot 7-239. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



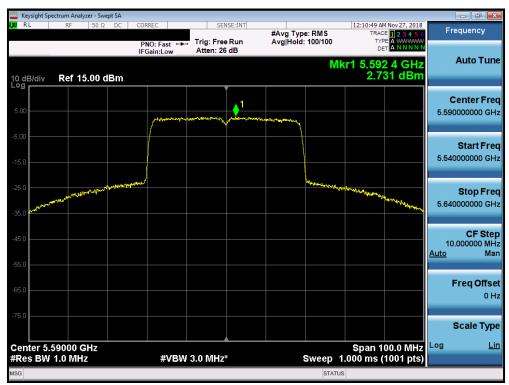
Plot 7-240. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

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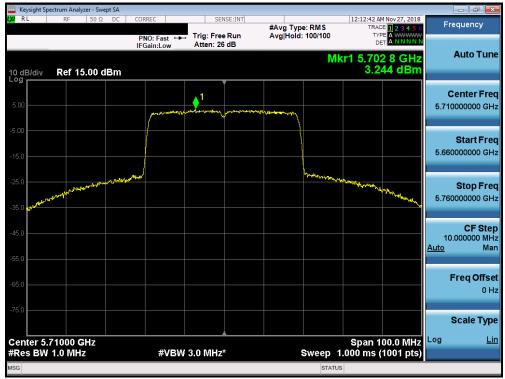
Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

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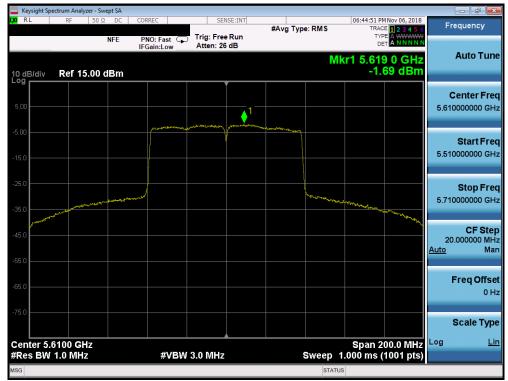
Plot 7-243. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



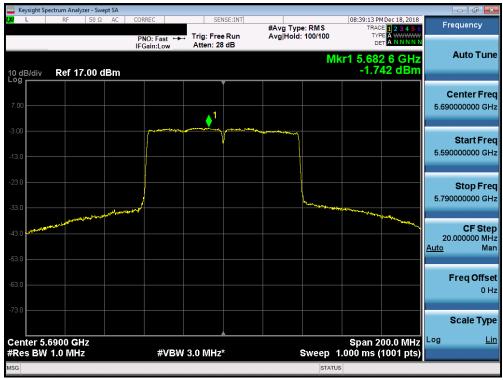
Plot 7-244. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

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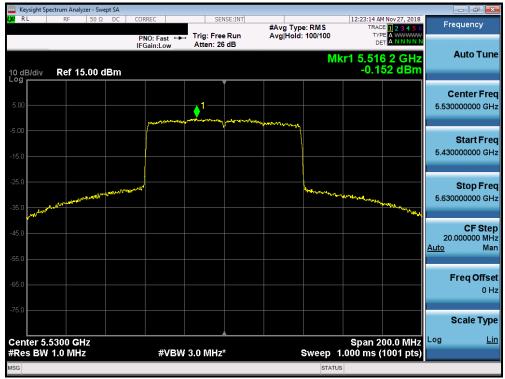
Plot 7-245. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



Plot 7-246. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

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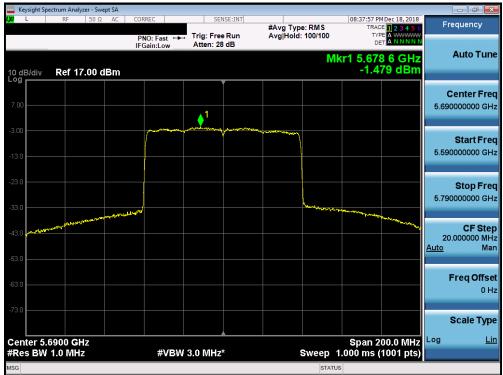
Plot 7-247. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

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Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

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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	3.87	30.0	-26.13
	5785	157	а	6	3.88	30.0	-26.12
	5825	165	а	6	3.51	30.0	-26.49
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.36	30.0	-26.64
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	3.56	30.0	-26.44
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.35	30.0	-26.65
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	4.33	30.0	-25.67
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	4.29	30.0	-25.71
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	4.25	30.0	-25.75
	5755	151	n (40MHz)	13.5/15 (MCS0)	-0.50	30.0	-30.50
	5795	159	n (40MHz)	13.5/15 (MCS0)	-0.50	30.0	-30.50
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.54	30.0	-29.46
	5795	159	ax (40MHz)	13.5/15 (MCS0)	0.54	30.0	-29.46
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-2.15	30.0	-32.15
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.68	30.0	-30.68

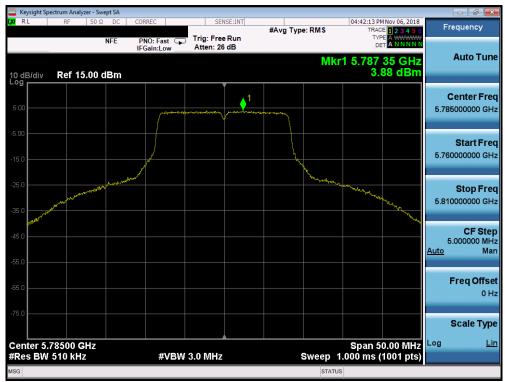
Table 7-24. Band 3 Conducted Power Spectral Density Measurements SISO ANT2



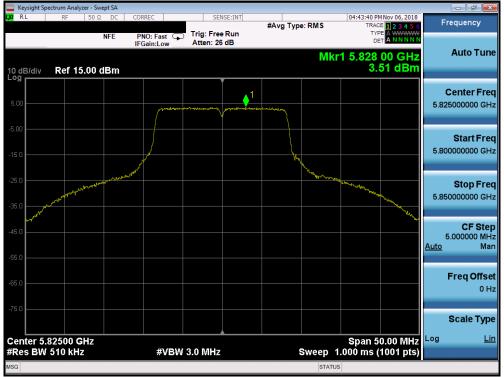
Plot 7-250. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 149)

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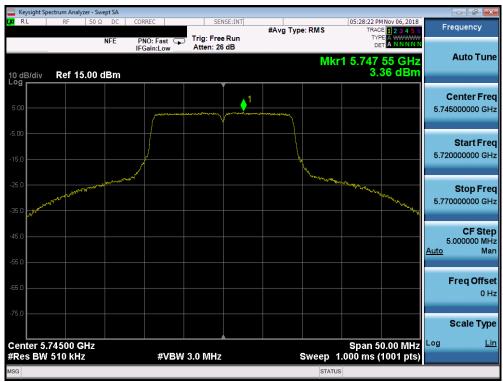
Plot 7-251. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 157)



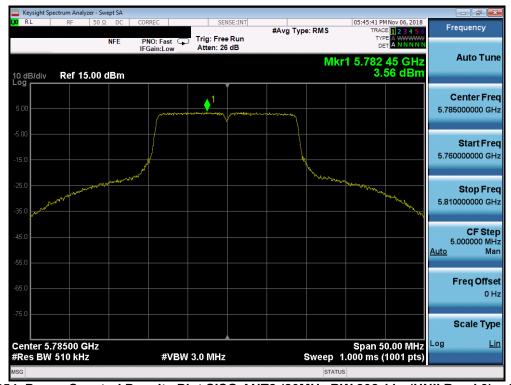
Plot 7-252. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-253. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



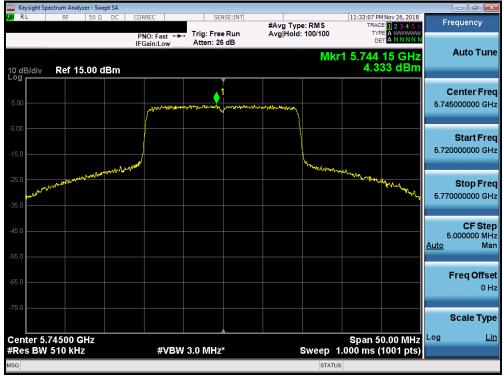
Plot 7-254. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-255. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



Plot 7-256. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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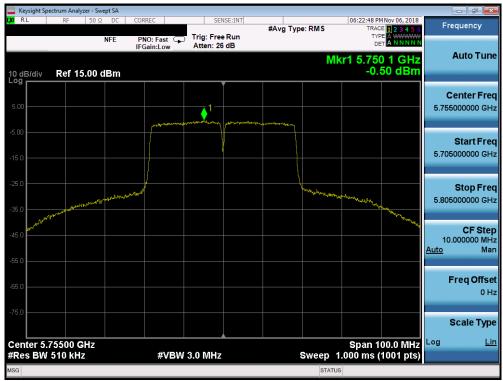
Plot 7-257. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



Plot 7-258. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

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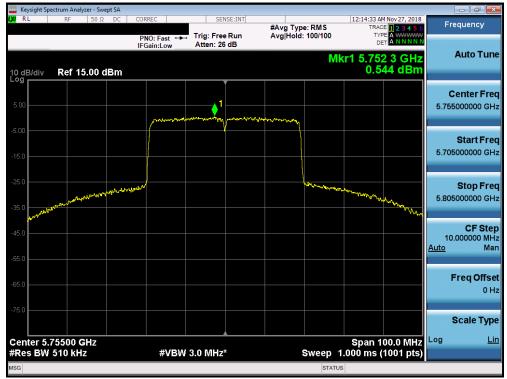
Plot 7-259. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



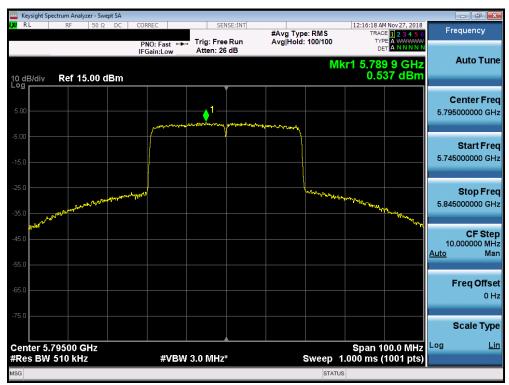
Plot 7-260. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

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Plot 7-261. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



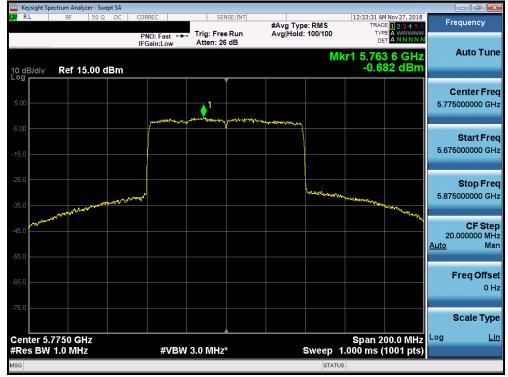
Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

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Plot 7-263. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

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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]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	а	6.5/7.2 (MCS0)	6.61	6.20	9.42	11.0	-1.58
	5200	40	а	6.5/7.2 (MCS0)	6.52	5.76	9.17	11.0	-1.83
	5240	48	а	6.5/7.2 (MCS0)	6.82	6.35	9.60	11.0	-1.40
_	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.09	5.62	8.37	11.0	-2.63
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	5.31	6.00	8.68	11.0	-2.32
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	5.55	6.40	9.01	11.0	-1.99
_	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	7.01	5.71	9.42	11.0	-1.58
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	6.37	5.96	9.18	11.0	-1.82
ĕ	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	7.00	6.31	9.68	11.0	-1.32
	5190	38	n (40MHz)	13.5/15 (MCS0)	2.44	2.44	5.45	11.0	-5.55
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.54	1.85	5.22	11.0	-5.78
	5190	38	ax (40MHz)	13.5/15 (MCS0)	3.09	2.39	5.76	11.0	-5.24
	5230	46	ax (40MHz)	13.5/15 (MCS0)	3.41	2.92	6.18	11.0	-4.82
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.89	-1.88	1.13	11.0	-9.87
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	0.05	-0.91	2.61	11.0	-8.39
	5260	52	а	6.5/7.2 (MCS0)	6.44	6.46	9.46	11.0	-1.54
	5280	56	а	6.5/7.2 (MCS0)	6.86	6.50	9.69	11.0	-1.31
	5320	64	а	6.5/7.2 (MCS0)	6.98	6.54	9.78	11.0	-1.22
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.15	6.35	9.26	11.0	-1.74
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.19	6.26	9.23	11.0	-1.77
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.98	6.22	9.11	11.0	-1.89
2A	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	7.09	6.47	9.80	11.0	-1.20
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	6.80	6.61	9.72	11.0	-1.28
Ва	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	6.98	6.65	9.83	11.0	-1.17
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.52	2.00	5.28	11.0	-5.72
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.77	1.97	5.40	11.0	-5.60
	5270	54	ax (40MHz)	13.5/15 (MCS0)	3.38	2.96	6.18	11.0	-4.82
	5310	62	ax (40MHz)	13.5/15 (MCS0)	3.27	2.86	6.08	11.0	-4.92
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-2.10	-2.27	0.83	11.0	-10.17
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-0.24	-0.97	2.42	11.0	-8.58
	5500	100	а	6.5/7.2 (MCS0)	6.49	6.79	9.65	11.0	-1.35
	5600	120	а	6.5/7.2 (MCS0)	6.13	6.16	9.16	11.0	-1.84
	5720	144	а	6.5/7.2 (MCS0)	6.41	6.78	9.61	11.0	-1.39
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.11	6.41	9.27	11.0	-1.73
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.65	6.11	8.89	11.0	-2.11
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.11	6.20	9.16	11.0	-1.84
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	6.52	6.83	9.69	11.0	-1.31
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	6.20	6.23	9.23	11.0	-1.77
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	6.33	8.02	10.27	11.0	-0.73
SC	5510	102	n (40MHz)	13.5/15 (MCS0)	2.61	2.11	5.38	11.0	-5.62
Band 2C	5590	118	n (40MHz)	13.5/15 (MCS0)	2.13	3.25	5.74	11.0	-5.26
Bal	5710	142	n (40MHz)	13.5/15 (MCS0)	1.63	1.93	4.79	11.0	-6.21
	5510	102	ax (40MHz)	13.5/15 (MCS0)	3.51	3.30	6.42	11.0	-4.58
	5590	118	ax (40MHz)	13.5/15 (MCS0)	2.69	2.73	5.72	11.0	-5.28
	5710	142	ax (40MHz)	13.5/15 (MCS0)	3.07	3.24	6.17	11.0	-4.83
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.60	-2.10	1.17	11.0	-9.83
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.15	-1.69	1.10	11.0	-9.90
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-1.74	-1.74	1.27	11.0	-9.73
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-0.13	-0.15	2.87	11.0	-8.13
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-1.40	-0.94	1.85	11.0	-9.15
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-1.64	-1.48	1.45	11.0	-9.55

Table 7-25. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

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	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	6.5/7.2 (MCS0)	3.24	3.87	6.58	30.0	-23.42
	5785	157	а	6.5/7.2 (MCS0)	3.70	3.88	6.80	30.0	-23.20
	5825	165	а	6.5/7.2 (MCS0)	1.99	3.51	5.83	30.0	-24.17
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.38	3.36	6.38	30.0	-23.62
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	3.59	3.56	6.59	30.0	-23.41
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.76	3.35	6.57	30.0	-23.43
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	4.44	4.33	7.40	30.0	-22.60
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	3.99	4.29	7.15	30.0	-22.85
m	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	3.66	4.25	6.97	30.0	-23.03
	5755	151	n (40MHz)	13.5/15 (MCS0)	-0.08	-0.50	2.73	30.0	-27.27
	5795	159	n (40MHz)	13.5/15 (MCS0)	-0.47	-0.50	2.53	30.0	-27.47
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.27	0.54	3.42	30.0	-26.58
	5795	159	ax (40MHz)	13.5/15 (MCS0)	0.51	0.54	3.53	30.0	-26.47
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-1.13	-2.15	1.40	30.0	-28.60
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.78	-0.68	2.28	30.0	-27.72

Table 7-26. Band 3 MIMO Conducted Power Spectral Density Measurements

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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 Directional Gain Calculation:

At 5180MHz, the antenna gain is -8.61 dBi for Antenna-1 and -7.68 dBi for Antenna-2.

Directional gain =
$$10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 / N_{ANT}] dBi$$

= $10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] dBi$
= $(-5.12) dBi$

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.09 dBm for Antenna-1 and 5.62 dBm for Antenna-2.

$$(5.09 \text{ dBm} + 5.62 \text{ dBm}) = (3.23 \text{ mW} + 3.65 \text{ mW}) = 6.87 \text{ mW} = 8.37 \text{ dBm}$$

Sample e.i.r.p Power Spectral Density Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 8.37 dBm with directional gain of -5.12 dBi.

$$8.37 \text{ dBm} + (-5.12) \text{ dBi} = 3.25 \text{ dBm}$$

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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 7-30 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-27. 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)
- Number of measurement points = 1001 (Number of points must be ≥ 2 x 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.

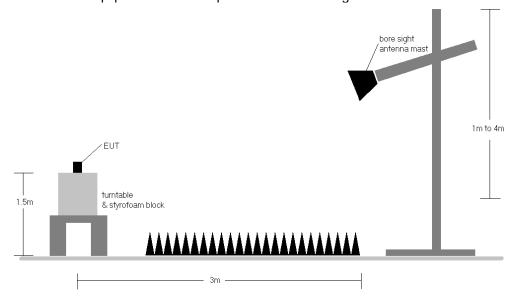


Figure 7-5. Test Instrument & Measurement Setup

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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.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- o AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level $[dB_{\mu\nu}/m]$ Limit $[dB_{\mu\nu}/m]$

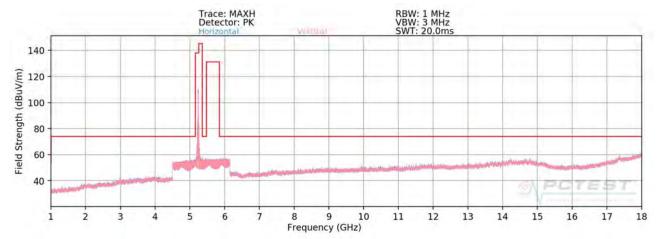
Radiated Band Edge Measurement Offset

The amplitude offset shown in the radiated restricted band edge plots in Section 7.8 was calculated using the formula:

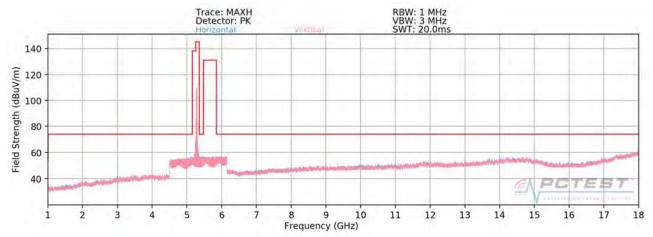
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain



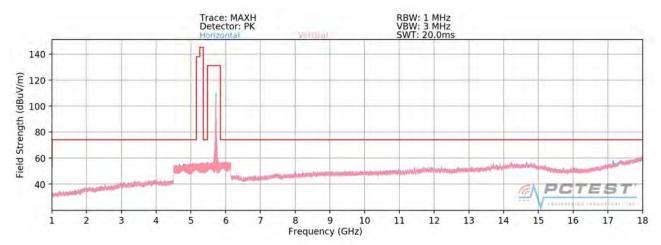
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-265. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U1 Ch. 40)



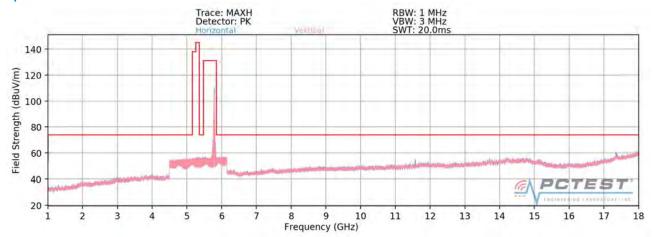
Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U2C Ch. 120)

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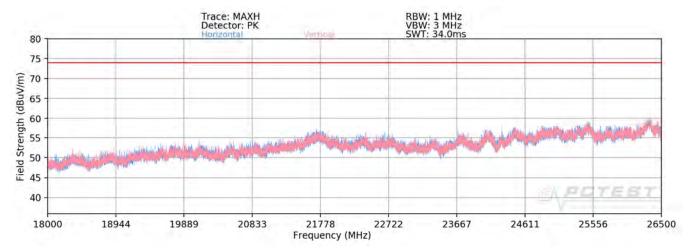


Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

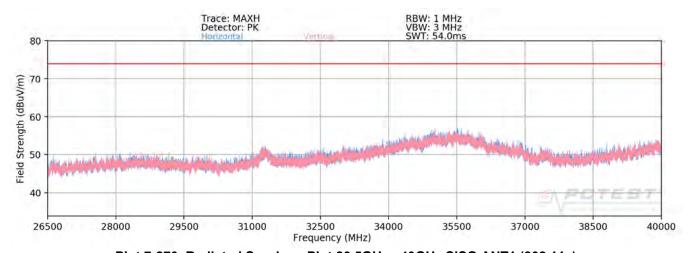
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-269. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-270. 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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	295	23	-62.52	12.74	0.00	57.22	68.20	-10.98
*	15540.00	Average	Н	-	-	-75.80	15.28	0.00	46.48	53.98	-7.50
*	15540.00	Peak	Н	-	-	-64.03	15.28	0.00	58.25	73.98	-15.73
*	20720.00	Average	Н	-	-	-81.46	16.92	-9.54	32.92	53.98	-21.06
*	20720.00	Peak	Н	-	-	-70.43	16.92	-9.54	43.95	73.98	-30.03
•	25900.00	Peak	Н	-	-	-68.26	19.39	-9.54	48.59	68.20	-19.61

Table 7-28. 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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	Н	286	12	-62.54	12.24	0.00	56.70	68.20	-11.50
*	15600.00	Average	Н	-	-	-75.76	15.40	0.00	46.64	53.98	-7.33
*	15600.00	Peak	Н	-	-	-63.52	15.40	0.00	58.88	73.98	-15.09
*	20800.00	Average	Н	-	-	-81.90	17.39	-9.54	32.94	53.98	-21.03
*	20800.00	Peak	Н	-	-	-69.78	17.39	-9.54	45.06	73.98	-28.91
•	26000.00	Peak	Н	-	-	-68.26	19.98	-9.54	49.17	68.20	-19.03

Table 7-29. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

1 & 3 Meters

Distance of Measurements:
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	I	292	12	-61.72	12.41	0.00	57.69	68.20	-10.51
*	15720.00	Average	Н	-	-	-75.96	16.70	0.00	47.74	53.98	-6.24
*	15720.00	Peak	Н	-	-	-64.09	16.70	0.00	59.61	73.98	-14.37
*	20960.00	Average	Н	-	-	-81.87	17.29	-9.54	32.88	53.98	-21.10
*	20960.00	Peak	Н	-	-	-70.04	17.29	-9.54	44.71	73.98	-29.27
	26200.00	Peak	Н	-	-	-68.33	19.80	-9.54	48.93	68.20	-19.27

Table 7-30. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency:

5240MHz

Channel: 48

Distance Ant. Antenna **Turntable Analyzer** Field **Frequency AFCL** Margin Correction Limit Detector **Azimuth** Pol. Height Level Strength [MHz] [dB/m] [dBµV/m] [dB] **Factor** [degree] [dBm] [dBµV/m] [H/V] [cm] [dB] 10480.00 Peak Н -63.14 12.41 0.00 56.27 68.20 -11.93 15720.00 -76.00 16.70 0.00 47.70 53.98 Average -6.28 15720.00 Peak Н -64.16 16.70 0.00 59.54 73.98 -14.44 20960.00 Average Н -81.17 17.39 -9.54 33.67 53.98 -20.30 20960.00 Peak Н -70.01 17.39 -9.54 44.83 73.98 -29.14 26200.00 Н -68.36 19.98 49.07 68.20 Peak -9.54 -19.13

Table 7-31. Radiated Measurements SISO ANT1 with WCP

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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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	Н	300	82	-63.19	13.16	0.00	56.97	68.20	-11.23
*	15780.00	Average	Н	-	-	-75.90	16.21	0.00	47.31	53.98	-6.67
*	15780.00	Peak	Н	-	-	-63.76	16.21	0.00	59.45	73.98	-14.53
*	21040.00	Average	Н	-	-	-80.87	17.32	-9.54	33.91	53.98	-20.07
*	21040.00	Peak	Н	-	-	-69.69	17.32	-9.54	45.09	73.98	-28.89
	26300.00	Peak	Н	-	-	-67.96	20.12	-9.54	49.62	68.20	-18.58

Table 7-32. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5280MHz

	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	Н	281	65	-62.33	13.66	0.00	58.33	68.20	-9.87
*	15840.00	Average	Н	-	-	-75.76	15.64	0.00	46.88	53.98	-7.10
*	15840.00	Peak	Н	-	-	-64.54	15.64	0.00	58.10	73.98	-15.88
*	21120.00	Average	Н	-	-	-81.33	17.26	-9.54	33.39	53.98	-20.59
*	21120.00	Peak	Н	-	-	-69.62	17.26	-9.54	45.10	73.98	-28.88
	26400.00	Peak	Н	-	-	-67.40	19.67	-9.54	49.73	68.20	-18.47

Table 7-33. Radiated Measurements SISO ANT1

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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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	Н	323	16	-74.70	14.15	0.00	46.45	53.98	-7.53
*	10640.00	Peak	Н	323	16	-62.52	14.15	0.00	58.63	73.98	-15.35
*	15960.00	Average	Н	-	-	-75.82	15.01	0.00	46.19	53.98	-7.79
*	15960.00	Peak	Н	-	-	-63.68	15.01	0.00	58.33	73.98	-15.65
*	21280.00	Average	Н	-	-	-81.55	17.51	-9.54	33.42	53.98	-20.56
*	21280.00	Peak	Н	-	-	-69.15	17.51	-9.54	45.82	73.98	-28.16
	26600.00	Peak	Н	-	-	-50.17	1.44	-9.54	48.73	68.20	-19.47

Table 7-34. Radiated Measurements SISO ANT1

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	Н	380	66	-63.85	13.16	0.00	56.31	68.20	-11.89
*	15780.00	Average	н	-	-	-75.95	16.21	0.00	47.26	53.98	-6.72
*	15780.00	Peak	Н	-	-	-64.53	16.21	0.00	58.68	73.98	-15.30
*	21040.00	Average	Н	-	-	-81.19	17.26	-9.54	33.53	53.98	-20.45
*	21040.00	Peak	Н	-	-	-69.44	17.26	-9.54	45.28	73.98	-28.70
	26300.00	Peak	Н	-	-	-67.66	19.67	-9.54	49.47	68.20	-18.73

Table 7-35. Radiated Measurements SISO ANT1 with WCP

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	Н	252	186	-75.05	13.55	0.00	45.50	53.98	-8.48
*	11000.00	Peak	Н	252	186	-62.22	13.55	0.00	58.33	73.98	-15.65
	16500.00	Peak	Н	250	179	-63.48	16.10	0.00	59.62	68.20	-8.58
	22000.00	Peak	Н	-	-	-68.98	18.25	-9.54	46.73	68.20	-21.47
	27500.00	Peak	Н	-	-	-48.06	0.12	-9.54	49.52	68.20	-18.68

Table 7-36. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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]
*	11160.00	Average	Н		-	-75.80	14.57	0.00	45.77	53.98	-8.21
*	11160.00	Peak	Н	-	-	-64.11	14.57	0.00	57.46	73.98	-16.52
	16740.00	Peak	Н	200	266	-63.12	17.52	0.00	61.40	68.20	-6.80
*	22320.00	Average	Н	-	-	-81.06	19.00	-9.54	35.40	53.98	-18.58
*	22320.00	Peak	Н	-	-	-69.58	19.00	-9.54	46.88	73.98	-27.10
	27900.00	Peak	Н	-	-	-49.53	0.74	-9.54	48.66	68.20	-19.54

Table 7-37. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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	Н	-	-	-75.83	15.10	0.00	46.27	53.98	-7.71
*	11440.00	Peak	Н	-	-	-64.16	15.10	0.00	57.94	73.98	-16.04
	17160.00	Peak	Н	-	-	-68.50	18.83	0.00	57.33	68.20	-10.87
*	22880.00	Average	Н	-	-	-80.84	18.40	-9.54	35.02	53.98	-18.96
*	22880.00	Peak	Н	-	-	-69.11	18.40	-9.54	46.75	73.98	-27.23
•	28600.00	Peak	Н	-	-	-49.10	0.41	-9.54	48.77	68.20	-19.43

Table 7-38. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

	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]
*	11160.00	Average	Н	-	-	-75.81	14.57	0.00	45.76	53.98	-8.22
*	11160.00	Peak	н	-	-	-63.72	14.57	0.00	57.85	73.98	-16.13
	16740.00	Peak	Н	-	-	-69.36	17.52	0.00	55.16	68.20	-13.04
	22320.00	Average	Н	-	-	-80.49	19.00	-9.54	35.97	53.98	-18.01
	22320.00	Peak	Н	-	-	-69.97	19.00	-9.54	46.49	73.98	-27.49
	27900.00	Peak	Н	-	-	-49.19	0.74	-9.54	49.00	68.20	-19.20

Table 7-39. Radiated Measurements SISO ANT1 with WCP

FCC ID: A3LSMG9700	THE THE PROPERTY OF THE PARTY O	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: 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	Η	-	-	-75.45	15.22	0.00	46.77	53.98	-7.21
*	11490.00	Peak	Н	-	-	-64.12	15.22	0.00	58.10	73.98	-15.88
	17235.00	Peak	Н	-	-	-68.92	19.54	0.00	57.62	68.20	-10.58
*	22980.00	Average	Н	-	-	-81.85	17.92	-9.54	33.53	53.98	-20.45
*	22980.00	Peak	Н	-	-	-70.08	17.92	-9.54	45.30	73.98	-28.68
	28725.00	Peak	Н	-	-	-49.56	0.67	-9.54	48.57	68.20	-19.63

Table 7-40. Radiated Measurements SISO ANT1

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	Η	307	248	-75.12	15.02	0.00	46.90	53.98	-7.08
*	11570.00	Peak	Н	307	248	-62.71	15.02	0.00	59.31	73.98	-14.67
	17355.00	Peak	Н	303	239	-69.53	23.41	0.00	60.88	68.20	-7.32
	23140.00	Peak	Н	-	-	-70.38	18.32	-9.54	45.40	68.20	-22.80
	28925.00	Peak	Н	-	-	-48.91	0.75	-9.54	49.30	68.20	-18.90

Table 7-41. Radiated Measurements SISO ANT1

FCC ID: A3LSMG9700	TO VENEZUE LA PORTORY, MA	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: 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	Н	291	46	-74.44	14.92	0.00	47.48	53.98	-6.50
*	11650.00	Peak	Н	291	46	-61.82	14.92	0.00	60.10	73.98	-13.88
	17475.00	Peak	Н	245	330	-66.80	21.86	0.00	62.06	68.20	-6.14
	23300.00	Peak	Н	-	-	-69.28	18.77	-9.54	46.95	68.20	-21.25
	29125.00	Peak	Н	-	-	-48.71	-0.12	-9.54	48.63	68.20	-19.57

Table 7-42. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

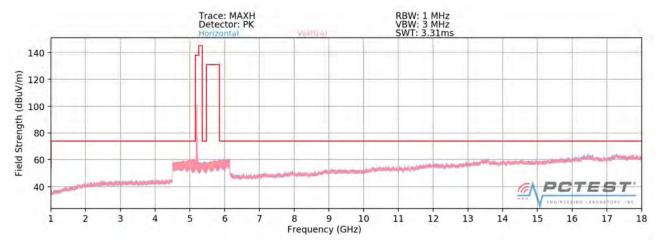
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	Н	329	5	-78.60	14.92	0.00	43.32	53.98	-10.66
*	11650.00	Peak	Н	329	5	-67.36	14.92	0.00	54.56	73.98	-19.42
	17475.00	Peak	Н	113	80	-67.85	21.86	0.00	61.01	68.20	-7.19
	23300.00	Peak	Н	-	-	-70.12	18.32	-9.54	45.66	68.20	-22.54
	29125.00	Peak	Н	-	-	-49.01	0.75	-9.54	49.20	68.20	-19.00

Table 7-43. Radiated Measurements SISO ANT1 with WCP

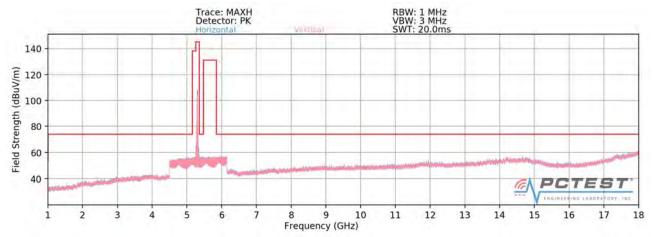
FCC ID: A3LSMG9700	TO VENEZUE LA PORTORY, MA	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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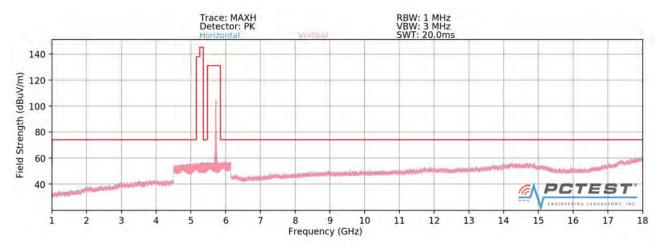
7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U1 Ch. 40)



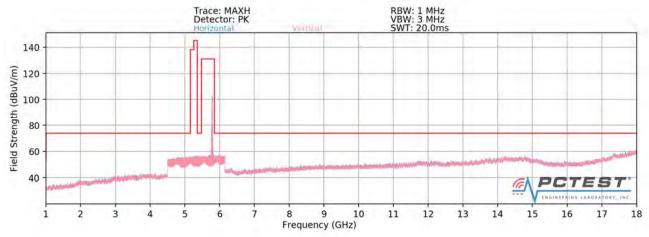
Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2A Ch. 56)



Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2C Ch. 120)

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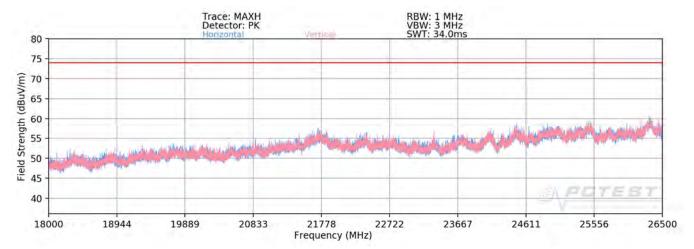


Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

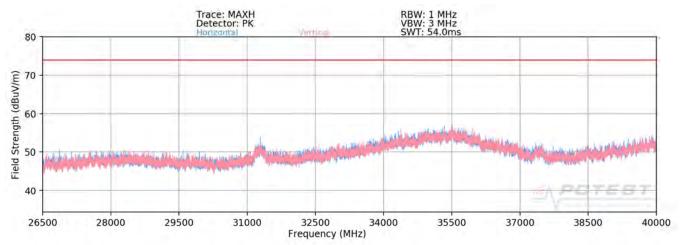
FCC ID: A3LSMG9700	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-275. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

FCC ID: A3LSMG9700	THE STATE OF THE S	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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	292	50	-66.83	12.74	0.00	52.91	68.20	-15.29
*	15540.00	Average	Н	300	3	-80.81	15.28	0.00	41.47	53.98	-12.51
*	15540.00	Peak	Н	300	3	-67.36	15.28	0.00	54.92	73.98	-19.06
*	20720.00	Average	V	-	-	-81.26	16.92	-9.54	33.12	53.98	-20.86
*	20720.00	Peak	V	-	-	-69.70	16.92	-9.54	44.68	73.98	-29.30
	25900.00	Peak	V	-	-	-68.46	19.39	-9.54	48.39	68.20	-19.81

Table 7-44. Radiated Measurements SISO ANT2

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	Н	281	47	-67.15	12.24	0.00	52.09	68.20	-16.11
*	15600.00	Average	Н	302	2	-81.12	15.40	0.00	41.28	53.98	-12.69
*	15600.00	Peak	Н	302	2	-68.28	15.40	0.00	54.12	73.98	-19.85
*	20800.00	Average	٧	-	-	-81.24	17.39	-9.54	33.60	53.98	-20.37
*	20800.00	Peak	V	-	-	-69.44	17.39	-9.54	45.40	73.98	-28.57
-	26000.00	Peak	V	-	-	-68.86	19.98	-9.54	48.57	68.20	-19.63

Table 7-45. Radiated Measurements SISO ANT2

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps 6

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	Н	286	47	-65.61	12.41	0.00	53.80	68.20	-14.40
*	15720.00	Average	Н	290	3	-81.89	16.70	0.00	41.81	53.98	-12.17
*	15720.00	Peak	Н	290	3	-69.93	16.70	0.00	53.77	73.98	-20.21
*	20960.00	Average	٧	-	-	-81.17	17.29	-9.54	33.58	53.98	-20.40
*	20960.00	Peak	V	-	-	-70.46	17.29	-9.54	44.29	73.98	-29.69
	26200.00	Peak	V	-	-	-67.53	19.80	-9.54	49.73	68.20	-18.47

Table 7-46. Radiated Measurements SISO ANT2

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	-	-	-67.12	12.74	0.00	52.62	68.20	-15.58
*	15540.00	Average	Н	-	-	-79.58	15.28	0.00	42.70	53.98	-11.28
*	15540.00	Peak	Н	-	-	-67.90	15.28	0.00	54.38	73.98	-19.60
*	20720.00	Average	V	-	-	-81.64	17.29	-9.54	33.11	53.98	-20.87
*	20720.00	Peak	V	-	-	-70.16	17.29	-9.54	44.59	73.98	-29.39
	25900.00	Peak	V	-	-	-68.11	19.80	-9.54	49.15	68.20	-19.05

Table 7-47. Radiated Measurements SISO ANT2 with WCP

FCC ID: A3LSMG9700	TO VENEZUE LA FORA TORY, JALL	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: 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	Н	301	47	-66.94	13.16	0.00	53.22	68.20	-14.98
*	15780.00	Average	Н	-	-	-82.89	16.21	0.00	40.32	53.98	-13.66
*	15780.00	Peak	Н	-	-	-71.24	16.21	0.00	51.97	73.98	-22.01
*	21040.00	Average	V	-	-	-79.48	17.32	-9.54	35.30	53.98	-18.68
*	21040.00	Peak	V	-	-	-68.65	17.32	-9.54	46.13	73.98	-27.85
	26300.00	Peak	V	-	-	-64.04	20.12	-9.54	53.54	68.20	-14.66

Table 7-48. Radiated Measurements SISO ANT2

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	Н	273	49	-66.81	13.66	0.00	53.85	68.20	-14.35
*	15840.00	Average	Н	-	-	-82.44	15.64	0.00	40.20	53.98	-13.78
*	15840.00	Peak	Н	-	-	-70.88	15.64	0.00	51.76	73.98	-22.22
*	21120.00	Average	٧	-	-	-78.99	17.26	-9.54	35.73	53.98	-18.25
*	21120.00	Peak	V	-	-	-67.54	17.26	-9.54	47.18	73.98	-26.80
	26400.00	Peak	V	-	-	-65.31	19.67	-9.54	51.82	68.20	-16.38

Table 7-49. Radiated Measurements SISO ANT2

FCC ID: A3LSMG9700	TO VENEZUE LA FORA TORY, JALL	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: 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	П	282	47	-79.64	14.15	0.00	41.51	53.98	-12.47
*	10640.00	Peak	Н	282	47	-67.90	14.15	0.00	53.25	73.98	-20.73
*	15960.00	Average	Н	-	-	-82.30	15.01	0.00	39.71	53.98	-14.27
*	15960.00	Peak	Н	-	-	-70.96	15.01	0.00	51.05	73.98	-22.93
*	21280.00	Average	٧	-	-	-78.50	17.51	-9.54	36.47	53.98	-17.51
*	21280.00	Peak	٧	-	-	-67.56	17.51	-9.54	47.41	73.98	-26.57
	26600.00	Peak	V	-	-	-50.06	1.44	-9.54	48.84	68.20	-19.36

Table 7-50. 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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10640.00	Average	Н	-	-	-79.31	14.15	0.00	41.84	53.98	-12.14
*	10640.00	Peak	Н	-	-	-68.03	14.15	0.00	53.12	73.98	-20.86
*	15960.00	Average	Н	-	-	-79.56	15.01	0.00	42.45	53.98	-11.53
*	15960.00	Peak	Н	-	-	-68.55	15.01	0.00	53.46	73.98	-20.52
*	21280.00	Average	٧	-	-	-77.77	17.32	-9.54	37.01	53.98	-16.97
	21280.00	Peak	٧	-	-	-66.50	17.32	-9.54	48.28	73.98	-25.70
	26600.00	Peak	٧	-	-	-65.37	20.12	-9.54	52.21	68.20	-15.99

Table 7-51. Radiated Measurements SISO ANT2 with WCP

FCC ID: A3LSMG9700	TO VENEZUE LA FORA TORY, JALL	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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	Н	113	257	-81.56	13.55	0.00	38.99	53.98	-14.99
*	11000.00	Peak	Н	113	257	-69.57	13.55	0.00	50.98	73.98	-23.00
	16500.00	Peak	Н	-	-	-70.50	16.10	0.00	52.60	68.20	-15.60
	22000.00	Peak	V	-	-	-66.66	18.25	-9.54	49.05	68.20	-19.15
	27500.00	Peak	V	-	-	-48.93	0.12	-9.54	48.65	68.20	-19.55

Table 7-52. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters 5600MHz

Operating Frequency:

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	н	400	61	-80.69	14.57	0.00	40.88	53.98	-13.10
*	11200.00	Peak	н	400	61	-68.72	14.57	0.00	52.85	73.98	-21.13
	16800.00	Peak	Н	-	-	-70.22	17.52	0.00	54.30	68.20	-13.90
*	22400.00	Average	٧	-	-	-77.83	19.00	-9.54	38.63	53.98	-15.35
*	22400.00	Peak	V	-	-	-66.68	19.00	-9.54	49.78	73.98	-24.20
	28000.00	Peak	V	-	-	-50.50	0.74	-9.54	47.69	68.20	-20.51

Table 7-53. Radiated Measurements SISO ANT2

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11a

144

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5720MHz Channel:

Distance Ant. **Antenna Turntable** Analyzer Field **AFCL** Frequency Limit Margin Correction **Detector** Pol. Height Azimuth Level Strength [MHz] [dB/m] [dBµV/m] **Factor** [dB] [H/V] [cm] [degree] [dBm] [dBµV/m] [dB] 11440.00 388 -79.86 42.24 -11.74 Average Η 36 15.10 0.00 53.98 11440.00 Peak Н 388 36 -68.07 15.10 0.00 54.03 73.98 -19.9517160.00 Peak Н 235 7 -69.59 18.83 0.00 56.24 68.20 -11.96 22880.00 V -78.02 Average 18.40 -9.54 37.84 53.98 -16.14 22880.00 Peak V -67.40 18.40 -9.54 48.46 73.98 -25.52 28600.00 Peak V -48.67 0.41 -9.54 49.20 -19.00 68.20

Table 7-54. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

1 & 3 Meters

5720MHz

Operating Frequency:

Channel:

Distance of Measurements:

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	Н	128	2230	-79.12	15.10	0.00	42.98	53.98	-11.00
*	11440.00	Peak	н	128	2230	-68.45	15.10	0.00	53.65	73.98	-20.33
	17160.00	Peak	Н	-	-	-68.02	18.83	0.00	57.81	68.20	-10.39
	22880.00	Average	V	-	-	-77.98	19.00	-9.54	38.48	53.98	-15.50
	22880.00	Peak	V	-	-	-66.84	19.00	-9.54	49.62	73.98	-24.36
	28600.00	Peak	V	-	-	-49.03	0.74	-9.54	49.16	68.20	-19.04

Table 7-55. Radiated Measurements SISO ANT2 with WCP

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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 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	Н	277	41	-80.07	15.22	0.00	42.15	53.98	-11.83
*	11490.00	Peak	Н	277	41	-68.15	15.22	0.00	54.07	73.98	-19.91
	17235.00	Peak	Н	-	-	-70.46	19.54	0.00	56.08	68.20	-12.12
*	22980.00	Average	V	-	-	-76.32	17.92	-9.54	39.06	53.98	-14.92
*	22980.00	Peak	V	-	-	-65.58	17.92	-9.54	49.80	73.98	-24.18
	28725.00	Peak	V	-	-	-45.87	0.67	-9.54	52.26	68.20	-15.94

Table 7-56. Radiated Measurements SISO ANT2

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	\	267	39	-80.01	15.02	0.00	42.01	53.98	-11.97
*	11570.00	Peak	٧	267	39	-68.14	15.02	0.00	53.88	73.98	-20.10
	17355.00	Peak	V	234	21	-71.19	23.41	0.00	59.22	68.20	-8.98
	23140.00	Peak	V	-	-	-64.59	18.32	-9.54	51.19	68.20	-17.01
	28925.00	Peak	V	-	-	-46.83	-3.20	-9.54	47.43	68.20	-20.77

Table 7-57. Radiated Measurements SISO ANT2

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	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: 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	٧	310	295	-80.72	14.92	0.00	41.20	53.98	-12.78
*	11650.00	Peak	٧	310	295	-69.00	14.92	0.00	52.92	73.98	-21.06
	17475.00	Peak	V	249	25	-69.97	21.86	0.00	58.89	68.20	-9.31
	23300.00	Peak	٧	-	-	-64.35	18.77	-9.54	51.88	68.20	-16.32
	29125.00	Peak	٧	-	-	-48.60	-0.12	-9.54	48.74	68.20	-19.46

Table 7-58. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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	-	-	-79.38	15.02	0.00	42.64	53.98	-11.34
*	11490.00	Peak	٧	-	-	-68.81	15.02	0.00	53.21	73.98	-20.77
	17235.00	Peak	٧	-	-	-69.15	23.41	0.00	61.26	68.20	-6.94
	22980.00	Peak	٧	-	-	-78.59	17.92	-9.54	36.79	53.98	-17.19
	22980.00	Peak	V	-	-	-66.27	17.92	-9.54	49.11	73.98	-24.87
	28725.00	Peak	V	-	-	-49.35	0.67	-9.54	48.78	68.20	-19.42

Table 7-59. Radiated Measurements SISO ANT2 with WCP

FCC ID: A3LSMG9700	THE THE PROPERTY OF THE PROPER	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.3 MIMO/CDD 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]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	257	43	-63.53	12.74	0.00	56.21	68.20	-11.99
*	15540.00	Average	Н	298	360	-76.90	15.28	0.00	45.38	53.98	-8.60
*	15540.00	Peak	Н	298	360	-64.39	15.28	0.00	57.89	73.98	-16.09
*	20720.00	Average	V	-	-	-81.32	16.92	-9.54	33.06	53.98	-20.92
*	20720.00	Peak	V	-	-	-70.20	16.92	-9.54	44.18	73.98	-29.80
	25900.00	Peak	٧	-	-	-68.08	19.39	-9.54	48.77	68.20	-19.43

Table 7-60. Radiated Measurements MIMO/CDD

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]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	Н	288	53	-64.52	12.24	0.00	54.72	68.20	-13.48
*	15600.00	Average	Н	294	359	-77.63	15.40	0.00	44.77	53.98	-9.20
*	15600.00	Peak	Н	294	359	-65.01	15.40	0.00	57.39	73.98	-16.58
*	20800.00	Average	٧	-	-	-81.12	17.39	-9.54	33.72	53.98	-20.25
*	20800.00	Peak	٧	-	-	-70.01	17.39	-9.54	44.83	73.98	-29.14
	26000.00	Peak	V	-	-	-68.22	19.98	-9.54	49.21	68.20	-18.99

Table 7-61. Radiated Measurements MIMO/CDD

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	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]	Distance Correctio n Factor IdB1	Stronath	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	Н	273	60	-63.71	12.41	0.00	55.70	68.20	-12.50
*	15720.00	Average	Н	277	350	-79.09	16.70	0.00	44.61	53.98	-9.37
*	15720.00	Peak	Н	277	350	-67.38	16.70	0.00	56.32	73.98	-17.66
*	20960.00	Average	V	-	-	-81.44	17.29	-9.54	33.31	53.98	-20.67
*	20960.00	Peak	V	-	-	-69.87	17.29	-9.54	44.88	73.98	-29.10
	26200.00	Peak	٧	-	-	-68.09	19.80	-9.54	49.17	68.20	-19.03

Table 7-62, Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters

36

Operating Frequency: 5180MHz Channel:

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	139	60	-62.19	12.74	0.00	57.55	68.20	-10.65
*	15540.00	Average	Н	154	337	-77.50	15.28	0.00	44.78	53.98	-9.20
*	15540.00	Peak	Н	154	337	-68.99	15.28	0.00	53.29	73.98	-20.69
*	20720.00	Average	V	-	-	-81.22	16.92	-9.54	33.16	53.98	-20.82
*	20720.00	Peak	V	-	-	-70.18	16.92	-9.54	44.20	73.98	-29.78
	25900.00	Peak	V	-	-	-68.41	19.39	-9.54	48.44	68.20	-19.76

Table 7-63. Radiated Measurements MIMO/CDD with WCP

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	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: 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	Н	295	63	-64.15	13.16	0.00	56.01	68.20	-12.19
*	15780.00	Average	Н	286	358	-80.39	16.21	0.00	42.82	53.98	-11.16
*	15780.00	Peak	Н	286	358	-68.37	16.21	0.00	54.84	73.98	-19.14
*	21040.00	Average	V	-	-	-80.95	17.32	-9.54	33.83	53.98	-20.15
*	21040.00	Peak	V	-	-	-69.04	17.32	-9.54	45.74	73.98	-28.24
	26300.00	Peak	٧	-	-	-66.56	20.12	-9.54	51.02	68.20	-17.18

Table 7-64. Radiated Measurements MIMO/CDD

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	Н	282	53	-64.36	13.66	0.00	56.30	68.20	-11.90
*	15840.00	Average	Н	217	341	-79.69	15.64	0.00	42.95	53.98	-11.03
*	15840.00	Peak	Н	217	341	-66.49	15.64	0.00	56.15	73.98	-17.83
*	21120.00	Average	٧	-	-	-81.26	17.26	-9.54	33.46	53.98	-20.52
*	21120.00	Peak	V	-	-	-69.95	17.26	-9.54	44.77	73.98	-29.21
	26400.00	Peak	V	-	-	-66.44	19.67	-9.54	50.69	68.20	-17.51

Table 7-65. Radiated Measurements MIMO/CDD

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	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: 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	Н	296	28	-76.29	14.15	0.00	44.86	53.98	-9.12
*	10640.00	Peak	Н	296	28	-64.34	14.15	0.00	56.81	73.98	-17.17
*	15960.00	Average	Н	206	345	-78.99	15.01	0.00	43.02	53.98	-10.96
*	15960.00	Peak	Н	206	345	-66.69	15.01	0.00	55.32	73.98	-18.66
*	21280.00	Average	٧	-	-	-80.60	17.51	-9.54	34.37	53.98	-19.61
*	21280.00	Peak	٧	-	-	-69.88	17.51	-9.54	45.09	73.98	-28.89
	26600.00	Peak	V	-	-	-49.85	1.44	-9.54	49.05	68.20	-19.15

Table 7-66. Radiated Measurements MIMO/CDD

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	Н	162	68	-77.16	14.15	0.00	43.99	53.98	-9.99
*	10640.00	Peak	Н	162	68	-65.82	14.15	0.00	55.33	73.98	-18.65
*	15960.00	Average	Н	117	337	-79.31	15.01	0.00	42.70	53.98	-11.28
*	15960.00	Peak	Н	117	337	-67.99	15.01	0.00	54.02	73.98	-19.96
*	21280.00	Average	٧	-	-	-81.14	17.51	-9.54	33.83	53.98	-20.15
*	21280.00	Peak	V	-	-	-69.68	17.51	-9.54	45.29	73.98	-28.69
	26600.00	Peak	V	-	-	-67.04	1.44	-9.54	31.86	68.20	-36.34

Table 7-67. Radiated Measurements MIMO/CDD with WCP

FCC ID: A3LSMG9700	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	Н	318	19	-78.63	13.55	0.00	41.92	53.98	-12.06
*	11000.00	Peak	Н	318	19	-66.45	13.55	0.00	54.10	73.98	-19.88
	16500.00	Peak	Н	208	349	-62.02	16.10	0.00	61.08	68.20	-7.12
	22000.00	Peak	٧	-	-	-69.75	18.25	-9.54	45.96	68.20	-22.24
	27500.00	Peak	٧	-	-	-48.03	0.12	-9.54	49.55	68.20	-18.65

Table 7-68. Radiated Measurements MIMO/CDD

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	Н	398	54	-78.25	14.57	0.00	43.32	53.98	-10.66
*	11200.00	Peak	н	398	54	-65.77	14.57	0.00	55.80	73.98	-18.18
	16800.00	Peak	Н	205	346	-63.57	17.52	0.00	60.95	68.20	-7.25
*	22400.00	Average	٧	-	-	-80.88	19.00	-9.54	35.58	53.98	-18.40
*	22400.00	Peak	V	-	-	-69.17	19.00	-9.54	47.29	73.98	-26.69
	27980.00	Peak	V	-	-	-48.69	0.74	-9.54	49.50	68.20	-18.70

Table 7-69. Radiated Measurements MIMO/CDD

FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	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: 5700MHz

Channel: 140

	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	Н	400	56	-76.41	15.10	0.00	45.69	53.98	-8.29
*	11440.00	Peak	Н	400	56	-64.17	15.10	0.00	57.93	73.98	-16.05
	17160.00	Peak	Н	203	341	-62.82	18.83	0.00	63.01	68.20	-5.19
*	22880.00	Average	V	-	-	-81.14	18.40	-9.54	34.72	53.98	-19.26
*	22880.00	Peak	٧	-	-	-69.19	18.40	-9.54	46.67	73.98	-27.31
•	28600.00	Peak	V	-	-	-48.27	0.41	-9.54	49.60	68.20	-18.60

Table 7-70. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

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	Н	129	361	-76.59	15.10	0.00	45.51	53.98	-8.47
*	11440.00	Peak	н	129	361	-65.37	15.10	0.00	56.73	73.98	-17.25
	17160.00	Peak	Н	125	325	-67.56	18.83	0.00	58.27	68.20	-9.93
*	22880.00	Average	V	-	-	-80.29	18.40	-9.54	35.57	53.98	-18.41
*	22880.00	Peak	V	-	-	-68.79	18.40	-9.54	47.07	73.98	-26.91
	28600.00	Peak	V	-	-	-48.51	0.41	-9.54	49.36	68.20	-18.84

Table 7-71, Radiated Measurements MIMO/CDD with WCP

FCC ID: A3LSMG9700		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: 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	Н	300	43	-76.03	15.22	0.00	46.19	53.98	-7.79
*	11490.00	Peak	Н	300	43	-63.46	15.22	0.00	58.76	73.98	-15.22
	17235.00	Peak	Н	204	337	-63.45	19.54	0.00	63.09	68.20	-5.11
*	22980.00	Average	V	-	-	-80.24	17.92	-9.54	35.14	53.98	-18.84
*	22980.00	Peak	V	-	-	-69.98	17.92	-9.54	45.40	73.98	-28.58
	28725.00	Peak	V	-	-	-49.13	0.67	-9.54	49.00	69.20	-20.20

Table 7-72. Radiated Measurements MIMO/CDD

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	>	325	61	-75.38	15.02	0.00	46.64	53.98	-7.34
*	11570.00	Peak	٧	325	61	-62.82	15.02	0.00	59.20	73.98	-14.78
	17355.00	Peak	٧	204	339	-66.21	23.41	0.00	64.20	68.20	-4.00
	23140.00	Peak	٧	-	-	-70.14	18.32	-9.54	45.64	68.20	-22.56
	28925.00	Peak	V	-	-	-49.17	0.75	-9.54	49.04	68.20	-19.16

Table 7-73. Radiated Measurements MIMO/CDD

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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802.11a Worst Case Mode: 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	\	326	53	-73.49	14.92	0.00	48.43	53.98	-5.55
*	11650.00	Peak	٧	326	53	-60.42	14.92	0.00	61.50	73.98	-12.48
	17475.00	Peak	V	199	345	-65.79	21.86	0.00	63.07	68.20	-5.13
	23300.00	Peak	٧	-	-	-70.23	18.77	-9.54	46.00	68.20	-22.20
	29125.00	Peak	V	-	-	-49.03	-0.12	-9.54	48.31	68.20	-19.89

Table 7-74. Radiated Measurements MIMO/CDD

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]	Distance Correction Factor [dB]	Field Strength [dBµV/m]		Margin [dB]
*	11570.00	Average	Н	111	26	-75.37	15.02	0.00	46.65	53.98	-7.33
*	11570.00	Peak	Н	111	26	-64.00	15.02	0.00	58.02	73.98	-15.96
	17355.00	Peak	Н	122	19	-69.00	23.41	0.00	61.41	68.20	-6.79
	23140.00	Peak	V	-	-	-70.21	18.32	-9.52	45.59	53.98	-8.39
	28925.00	Peak	٧	-	-	-49.46	0.75	-9.52	48.77	73.98	-25.21

Table 7-75. Radiated Measurements MIMO/CDD with WCP

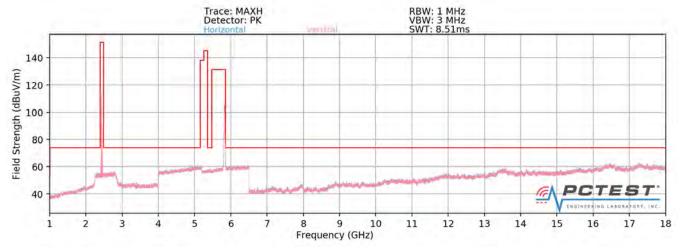
FCC ID: A3LSMG9700	YESTEST YESTEST OF THE STATE OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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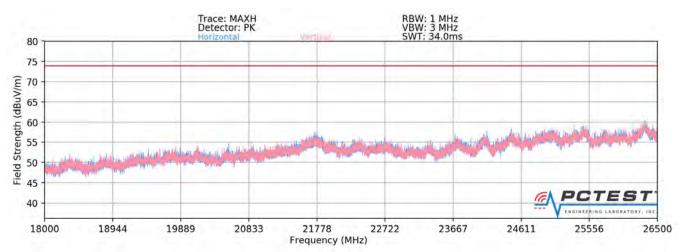
7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	6	144
Operating Frequency (MHz)	2437	5720
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-76. Simultaneous Transmission Config-1



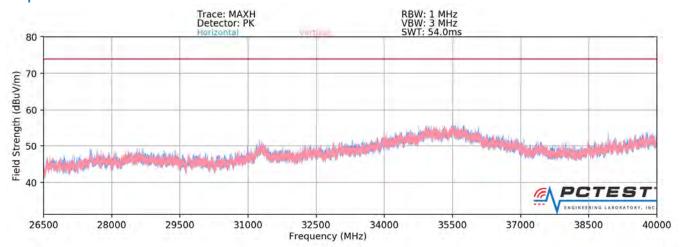
Plot 7-277. Radiated Spurious Plot above 1GHz (2.4GHz - 5GHz)



Plot 7-278. Radiated Spurious Plot 18GHz - 26.5GHz (2.4GHz - 5GHz)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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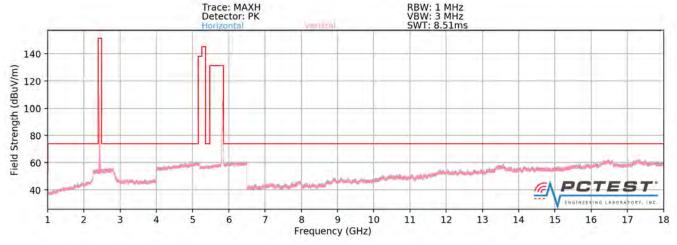
Plot 7-279. Radiated Spurious Plot above 26.5GHz (2.4GHz - 5GHz)

FCC ID: A3LSMG9700	THE STATE OF THE LABORATORY, MA.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dago 202 of 250	
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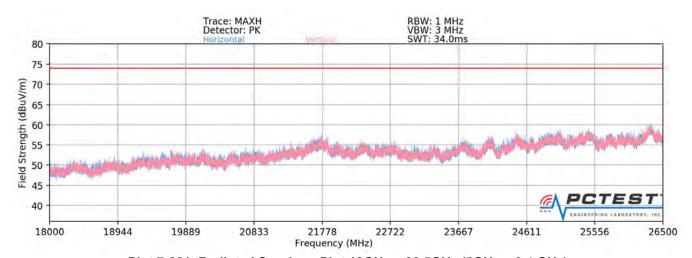


Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	6	144
Operating Frequency (MHz)	2437	5720
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-77. Simultaneous Transmission Config-2



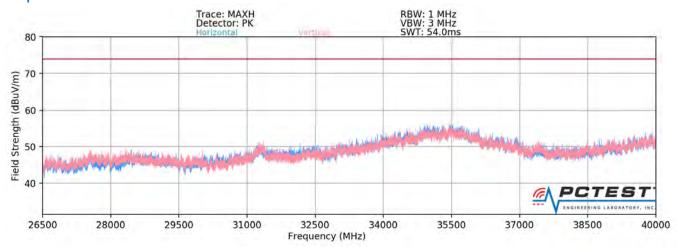
Plot 7-280. Radiated Spurious Plot above 1GHz (5GHz - 2.4 GHz)



Plot 7-281. Radiated Spurious Plot 18GHz - 26.5GHz (5GHz - 2.4 GHz)

FCC ID: A3LSMG9700	THE THE PROPERTY OF THE PROPER	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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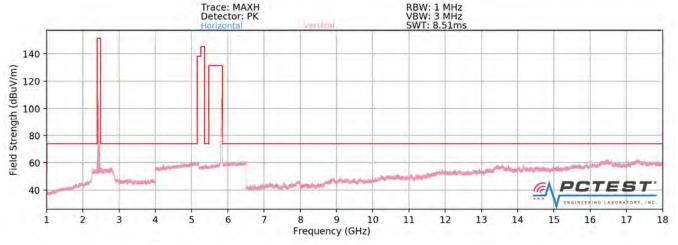
Plot 7-282. Radiated Spurious Plot above 26.5GHz (5GHz - 2.4 GHz)

FCC ID: A3LSMG9700	THE STATE OF THE LABORATORY, MA.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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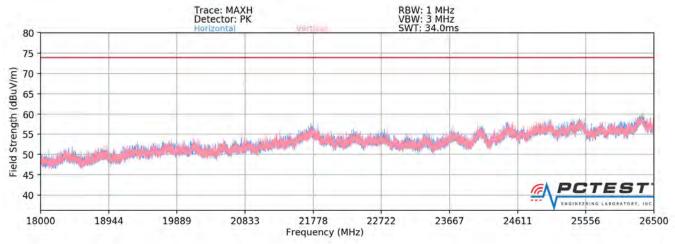


Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	157
Operating Frequency (MHz)	2437	5785
Data Rate (Mbps)	6	6
Mode	802.11g	802.11a

Table 7-78. Dual Band Simultaneous Transmission



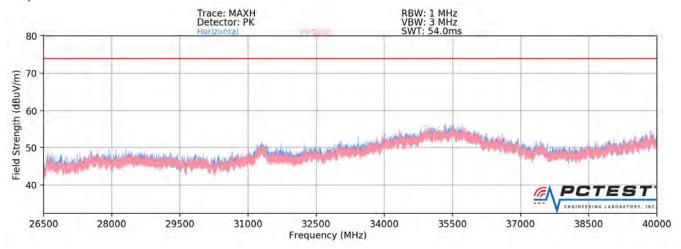
Plot 7-283. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)



Plot 7-284. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMG9700	THE THE PROPERTY OF THE PROPER	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-285. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

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SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

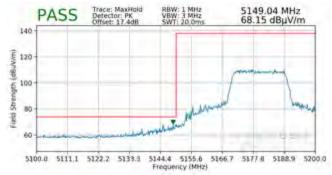
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

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

802.11ax
MCS0
3 Meters
5180MHz
36



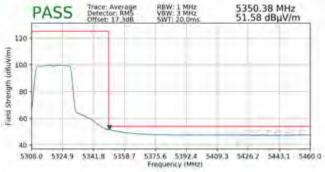
Plot 7-286. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)



Plot 7-287. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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

802.11ax
MCS0
3 Meters
5320MHz
64



Plot 7-288. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



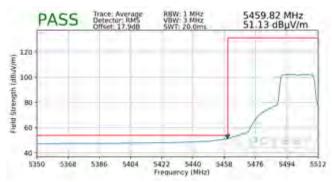
Plot 7-289. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMG9700	TO VENEZUE LA FOR FORY, JALL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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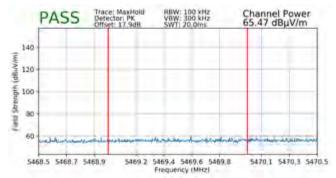


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5500MHz
100



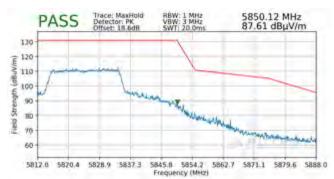
Plot 7-290. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-291. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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

802.11ax
MCS0
3 Meters
5825MHz
165



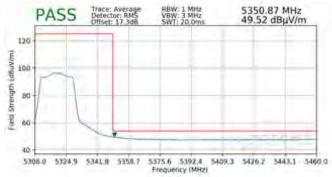
Plot 7-292. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: A3LSMG9700	THE STATE OF THE S	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5320MHz
64



Plot 7-293. Radiated Band Edge Plot SISO ANT1 (Average – WCP)



Plot 7-294. Radiated Band Edge Plot SISO ANT1 (Peak – WCP)

FCC ID: A3LSMG9700	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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:

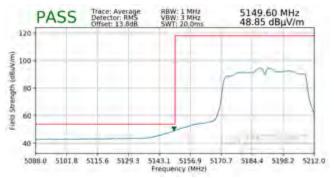
802.11ax

MCS0

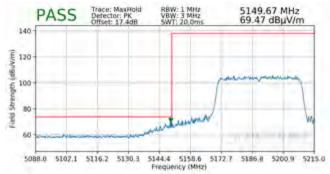
3 Meters

5190MHz

38

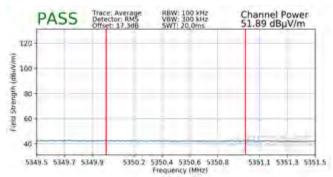


Plot 7-295. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

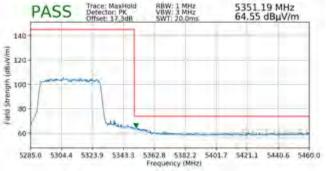


Plot 7-296. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-297. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



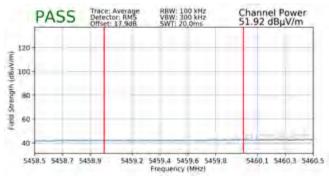
Plot 7-298. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMG9700	THE THE PROPERTY OF THE PROPER	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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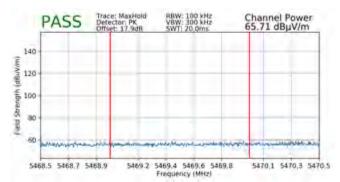


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5510MHz
102

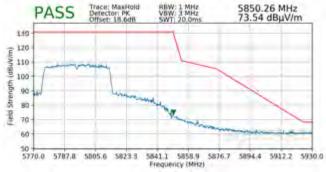


Plot 7-299. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-300. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159



Plot 7-301. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: A3LSMG9700	TO VENEZUE LA FORA TORY, JALL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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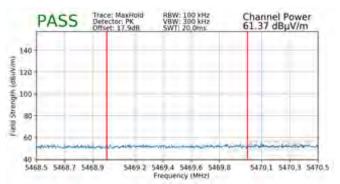


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5510MHz
102



Plot 7-302. Radiated Band Edge Plot SISO ANT1 (Average – WCP)



Plot 7-303. Radiated Band Edge Plot SISO ANT1 (Peak – WCP)

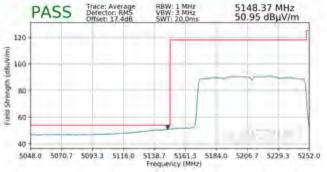
FCC ID: A3LSMG9700	THE STATE OF THE S	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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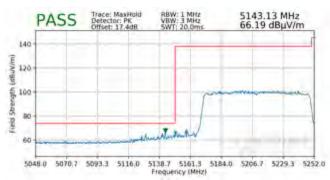
7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

802.11ax
MCS0
3 Meters
5210MHz
42



Plot 7-304. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)



Plot 7-305. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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

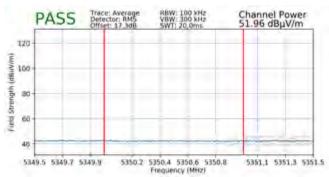
802.11ax

MCS0

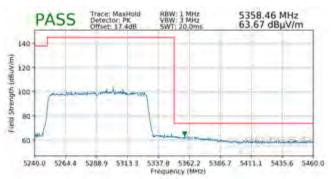
3 Meters

5290MHz

58



Plot 7-306. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)

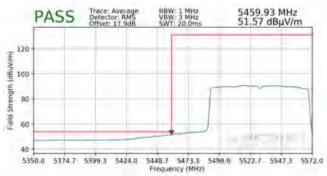


Plot 7-307. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMG9700	TO VENEZUE LA FORA TORY, JALL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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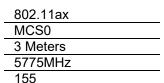


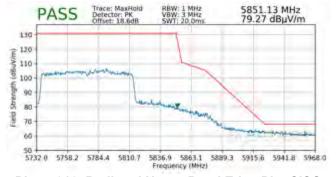
Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz Channel: 106



Plot 7-308. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C)

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





Plot 7-310. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3)

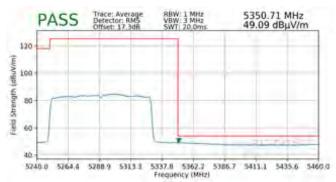
PASS	Trace: MaxHold Detector: PK Offset: 17.9dB	RBW: 1 MHz VBW: 3 MHz SWT: 20,0ms	5468.83 MHz 65.96 dBµV/m
5-			
0 +			
		T T	
0			

Plot 7-309. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C)

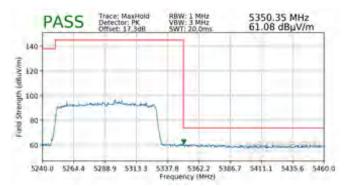
FCC ID: A3LSMG9700	THE STATE OF THE S	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-311. Radiated Band Edge Plot SISO ANT1 (Average - WCP)



Plot 7-312. Radiated Band Edge Plot SISO ANT1 (Peak - WCP)

FCC ID: A3LSMG9700	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:

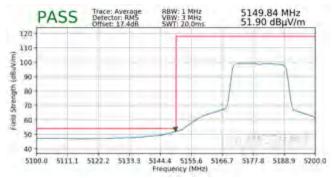
802.11ax

MCS0

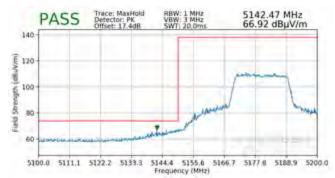
3 Meters

5180MHz

36



Plot 7-313. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)



Plot 7-314. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-315. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-316. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMG9700	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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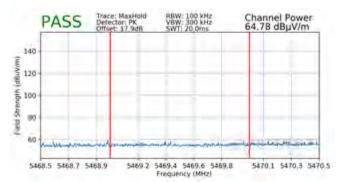


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5500MHz
100



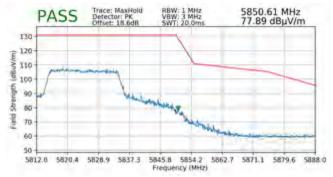
Plot 7-317. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-318. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

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

802.11ax
MCS0
3 Meters
5825MHz
165

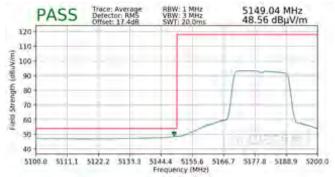


Plot 7-319. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

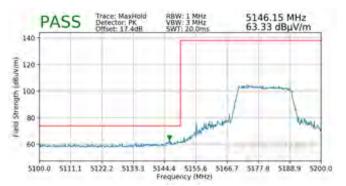
FCC ID: A3LSMG9700	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5500MHz Channel: 100



Plot 7-320. Radiated Band Edge Plot SISO ANT2 (Average - WCP)



Plot 7-321. Radiated Band Edge Plot SISO ANT2 (Peak - WCP)

FCC ID: A3LSMG9700	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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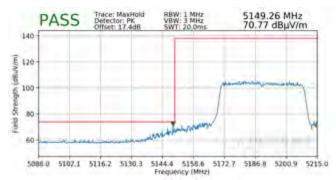
7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

802.11ax
MCS0
3 Meters
5190MHz
38

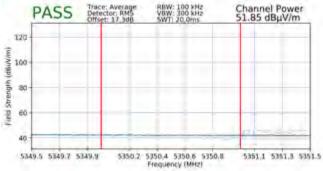


Plot 7-322. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

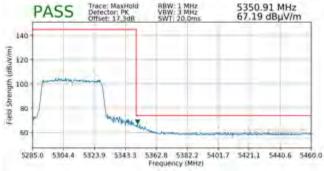


Plot 7-323. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-324. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



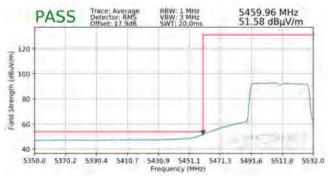
Plot 7-325. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMG9700	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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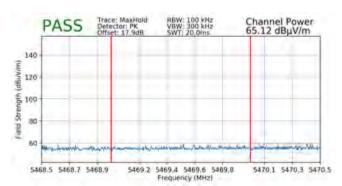


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5510MHz
102

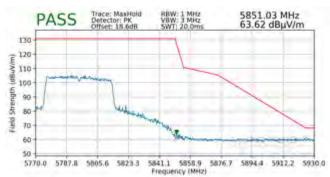


Plot 7-326. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-327. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159

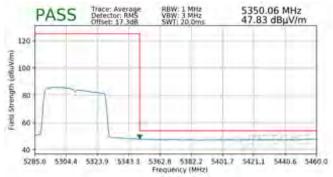


Plot 7-328. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

FCC ID: A3LSMG9700	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5310MHz Channel: 62



Plot 7-329. Radiated Band Edge Plot SISO ANT2 (Average - WCP)



Plot 7-330. Radiated Band Edge Plot SISO ANT2 (Peak - WCP)

FCC ID: A3LSMG9700	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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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:

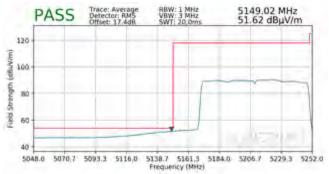
802.11ax

MCS0

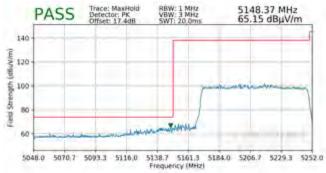
3 Meters

5210MHz

42



Plot 7-331. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

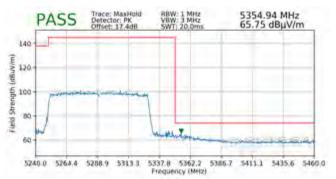


Plot 7-332. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-333. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)

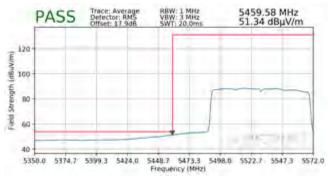


Plot 7-334. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

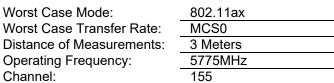
FCC ID: A3LSMG9700	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 222 of 250
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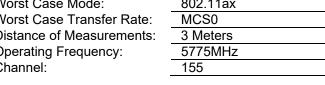


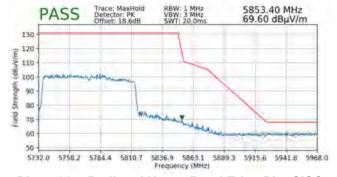
Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz Channel: 106



Plot 7-335. Radiated Lower Band Edge Plot SISO ANT2 (Average - UNII Band 2C)







Plot 7-337. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3)

PASS	Trace: MaxHold Detector: PK Offset: 17.9dB	RBW: 100 kHz VBW: 300 kHz SWT: 20,0ms	Channel Power 62.69 dBµV/m
140			
120			
100			
30			
60			make a second solution of
5468.5 5468.	7 5468.9 5469.2	5469.4 5469.6 5469. Frequency (MHz)	8 5470,1 5470,3 54

Plot 7-336. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 2C)

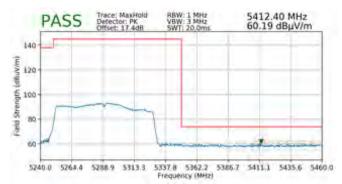
FCC ID: A3LSMG9700	PETEST YNDHIJHID JANDANDY, IRL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-338. Radiated Band Edge Plot SISO ANT2 (Average - WCP)



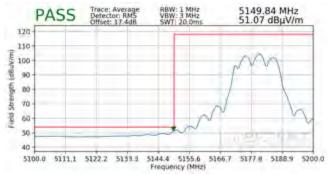
Plot 7-339. Radiated Band Edge Plot SISO ANT2 (Peak - WCP)

FCC ID: A3LSMG9700	PETEST VENEZATIVE LANGE FORM, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.10 MIMO/CDD Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 3 Meters Operating Frequency: 5180MHz Channel: 36



Plot 7-340. Radiated Lower Band Edge Plot CDD (Average - UNII Band 1)

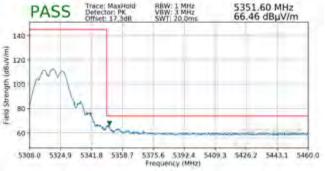


Plot 7-341. Radiated Lower Band Edge Plot CDD (Peak - UNII Band 1)

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 3 Meters Operating Frequency: 5320MHz Channel: 64



Plot 7-342. Radiated Upper Band Edge Plot CDD (Average - UNII Band 2A)



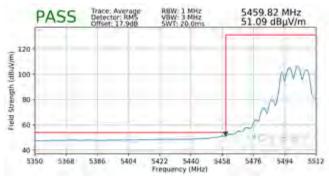
Plot 7-343. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 2A)

FCC ID: A3LSMG9700	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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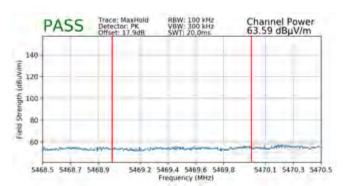


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5500MHz
100



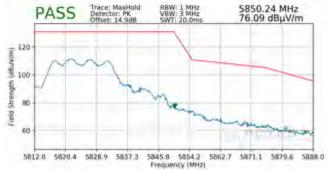
Plot 7-344. Radiated Lower Band Edge Plot CDD (Average – UNII Band 2C)



Plot 7-345. Radiated Lower Band Edge Plot CDD (Peak – UNII Band 2C)

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

802.11a
6Mbps
3 Meters
5825MHz
165



Plot 7-346. Radiated Upper Band Edge Plot CDD (Peak – UNII Band 3)

FCC ID: A3LSMG9700	PETEST YNDHIJHID JANDANDY, IRL	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
5320MHz
64



Plot 7-347. Radiated Band Edge Plot MIMO (Average – WCP)



Plot 7-348. Radiated Band Edge Plot MIMO (Peak – WCP)

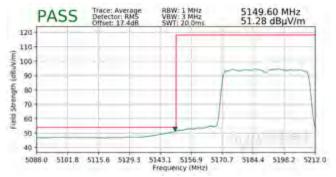
FCC ID: A3LSMG9700	PETEST VENEZATIVE LANGE FORM, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 227 of 250
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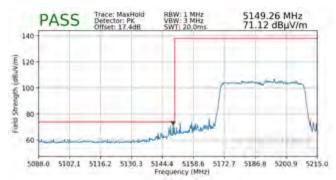
7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

802.11ax
MCS0
3 Meters
5190MHz
38



Plot 7-349. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



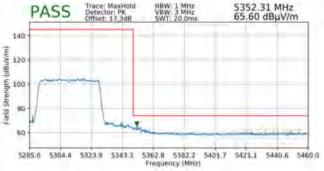
Plot 7-350. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

802.11ax
MCS0
3 Meters
5310MHz
62



Plot 7-351. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

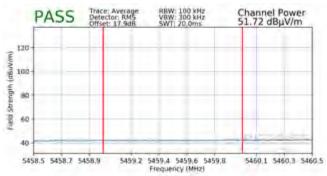


Plot 7-352. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

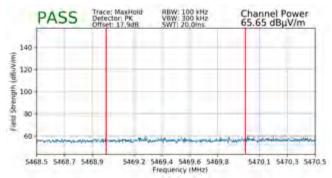
FCC ID: A3LSMG9700	PETEST YNDHIJHID JANDANDY, IRL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5510MHz Channel: 102

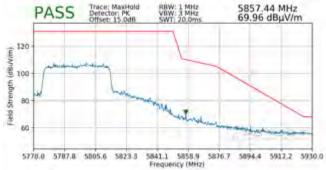


Plot 7-353. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C)



Plot 7-354. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5795MHz Channel: 159



Plot 7-355. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3)

FCC ID: A3LSMG9700	PETEST YNDHIJHID JANDANDY, IRL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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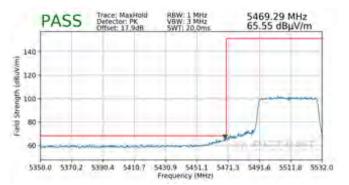


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5510MHz
102



Plot 7-356. Radiated Band Edge Plot MIMO (Average – WCP)



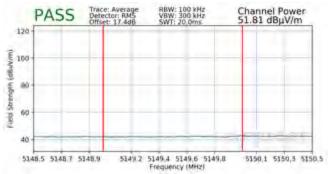
Plot 7-357. Radiated Band Edge Plot MIMO (Peak – WCP)

FCC ID: A3LSMG9700	PETEST VENEZATIVE LANGE FORM, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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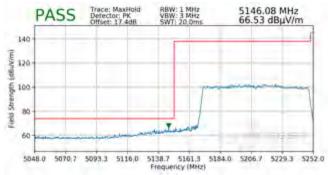


7.6.12 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5210MHz Channel: 42

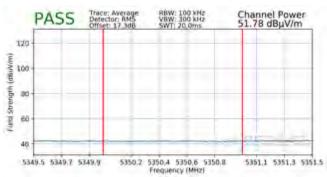


Plot 7-358. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1)

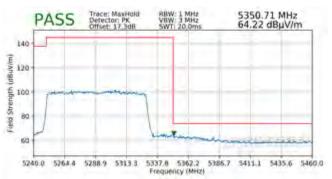


Plot 7-359. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-360. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A)



Plot 7-361. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A)

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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

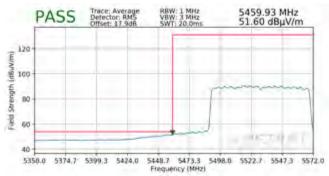
802.11ax

MCS0

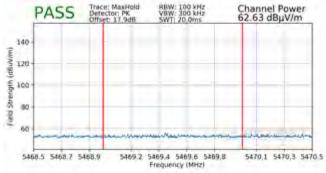
3 Meters

5530MHz

106



Plot 7-362. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-363. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

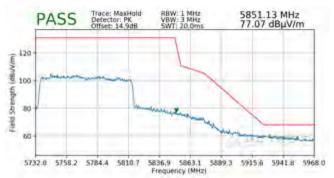
802.11ax

MCS0

3 Meters

5775MHz

155

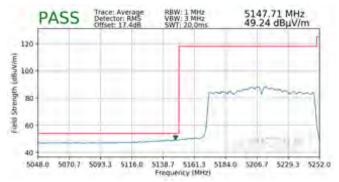


Plot 7-364. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

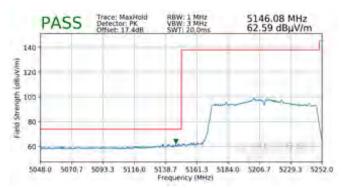
FCC ID: A3LSMG9700	PETEST YNDHIJHID JANDANDY, IRL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5210MHz Channel: 42



Plot 7-365. Radiated Band Edge Plot MIMO/CDD (Average - WCP)



Plot 7-366. Radiated Band Edge Plot MIMO/CDD (Peak - WCP)

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Radiated Spurious Emissions Measurements - Below 1GHz

§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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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 7-82 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-79. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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Test Setup

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

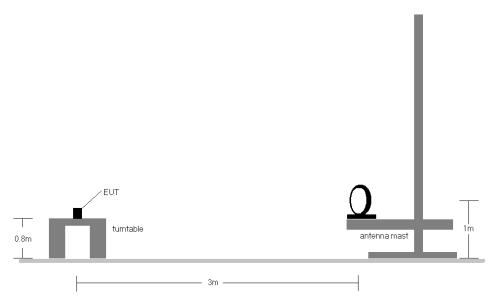


Figure 7-6. Radiated Test Setup < 30MHz

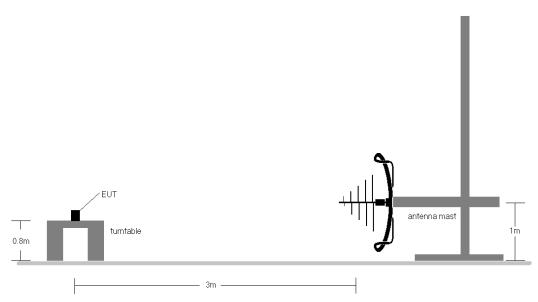


Figure 7-7. Radiated Test Setup < 1GHz

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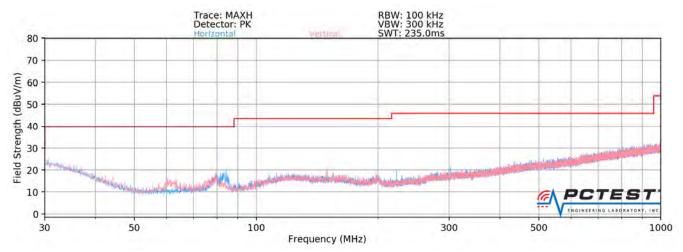
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-82.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz 1GHz frequency range, as shown in the subsequent plots.

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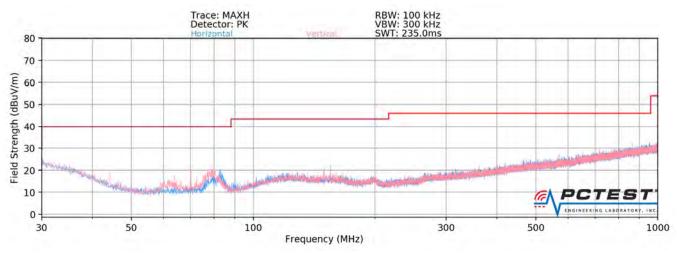


SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-367. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]

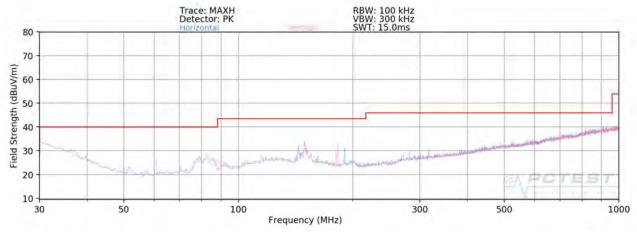


Plot 7-368. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

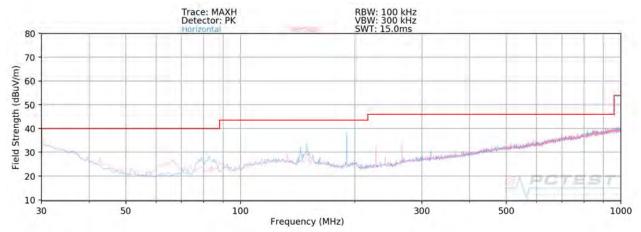
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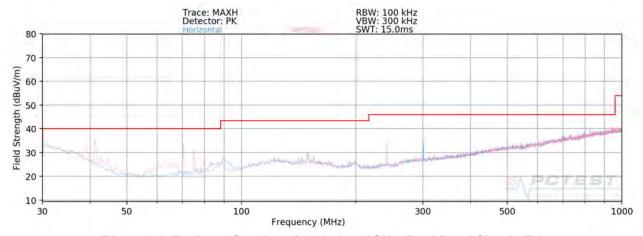
Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-369. Radiated Spurious Plot below 1GHz (2.4GHz - 5GHz)



Plot 7-370. Radiated Spurious Plot below 1GHz (5GHz - 2.4 GHz)



Plot 7-371. Radiated Spurious Plot below 1GHz (Dual Band Simult. Tx)

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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]
57.61	Quasi-Peak	V	112	93	-64.97	-21.89	20.14	40.00	-19.86
69.51	Quasi-Peak	٧	267	165	-68.15	-20.97	17.88	40.00	-22.12
83.06	Quasi-Peak	V	142	260	-65.72	-21.64	19.64	40.00	-20.36
86.47	Quasi-Peak	V	147	221	-65.51	-21.70	19.79	40.00	-20.21
154.98	Quasi-Peak	Н	125	243	-67.77	-16.21	23.02	43.52	-20.50
180.36	Quasi-Peak	Н	-	-	-70.20	-17.58	19.22	43.52	-24.30

Table 7-80. Radiated Measurement (2.4GHz - 5GHz)

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]
69.42	Quasi-Peak	V	164	97	-69.54	-20.98	16.48	40.00	-23.52
78.24	Quasi-Peak	٧	120	51	-65.44	-21.19	20.37	40.00	-19.63
149.39	Quasi-Peak	٧	128	280	-68.15	-16.43	22.42	43.52	-21.10
177.67	Quasi-Peak	Н	-	-	-70.58	-17.48	18.94	43.52	-24.58
234.57	Quasi-Peak	V	-	-	-70.55	-17.08	19.37	46.02	-26.65
262.53	Quasi-Peak	V	-	-	-70.58	-15.86	20.56	46.02	-25.46

Table 7-81. Radiated Measurement (5GHz - 2.4GHz)

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]
44.31	Quasi-Peak	V	123	118	-63.98	-18.65	24.37	40.00	-15.63
69.57	Quasi-Peak	V	128	122	-67.20	-20.96	18.84	40.00	-21.16
77.91	Quasi-Peak	V	243	141	-62.62	-21.18	23.20	40.00	-16.80
86.52	Quasi-Peak	V	109	118	-65.18	-21.70	20.12	40.00	-19.88
247.95	Quasi-Peak	V	-	-	-70.61	-16.90	19.49	46.02	-26.53
301.12	Quasi-Peak	Н	-	-	-70.85	-14.51	21.64	46.02	-24.38

Table 7-82. Radiated Measurement (Dual Band Simult. Tx)

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Line-Conducted Test Data 7.8

§15.407; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission	n Conducted Limit (dBμV)	
(MHz)	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-83. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- RBW = 9kHz (for emissions from 150kHz 30MHz)
- Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

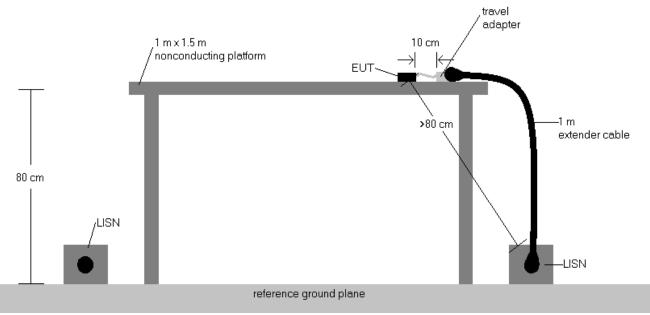


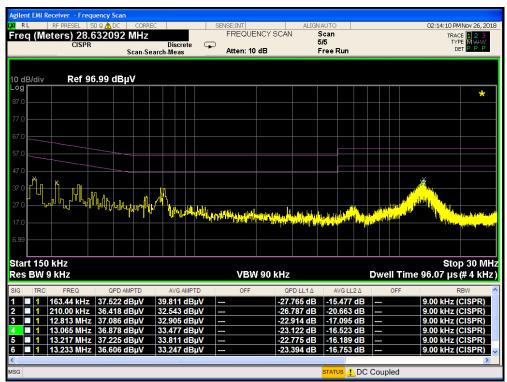
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

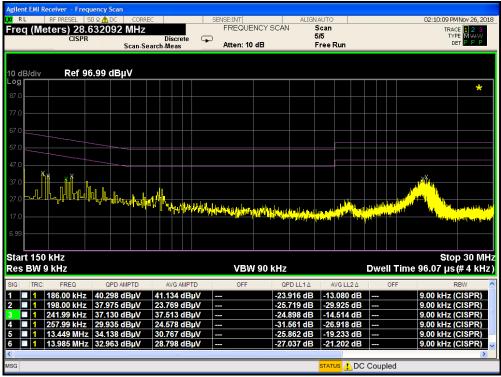
- All modes of operation were investigated and the worst-case emissions are reported using mid channel. 1. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB) 4.
- 5. Margin (dB) = QP/AV Limit (dB μ V) - QP/AV Level (dB μ V)
- Traces shown in plot are made using a peak detector. 6.
- 7. Deviations to the Specifications: None.

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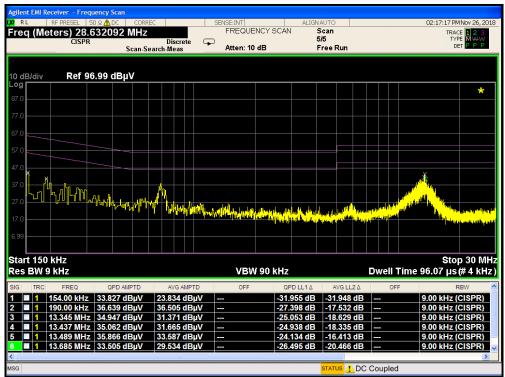
Plot 7-372. Line Conducted Plot with 802.11a UNII Band 1 (L1)



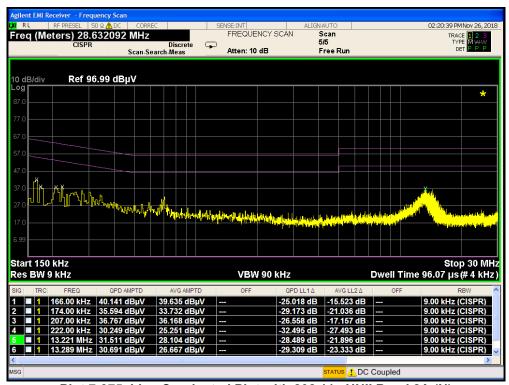
Plot 7-373. Line Conducted Plot with 802.11a UNII Band 1 (N)

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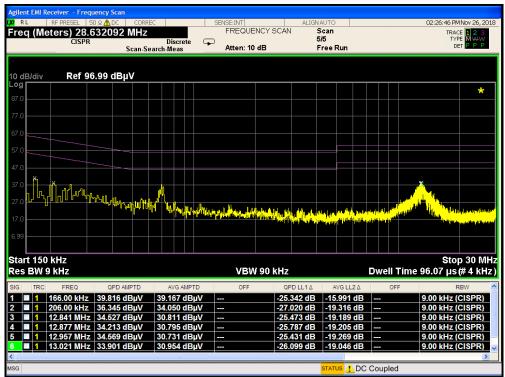
Plot 7-374. Line Conducted Plot with 802.11a UNII Band 2A (L1)



Plot 7-375. Line Conducted Plot with 802.11a UNII Band 2A (N)

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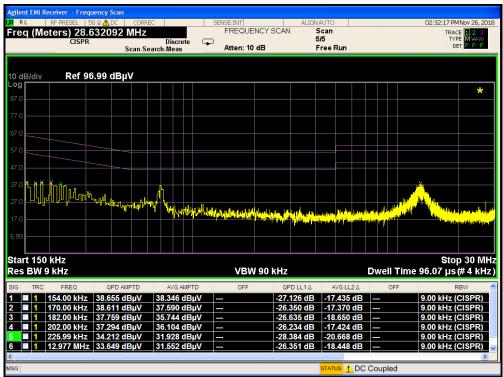
Plot 7-376. Line Conducted Plot with 802.11a UNII Band 2C (L1)



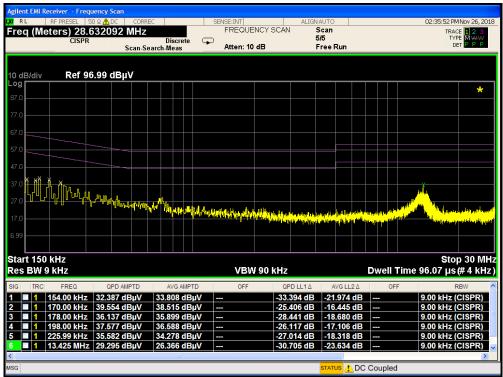
Plot 7-377. Line Conducted Plot with 802.11a UNII Band 2C (N)

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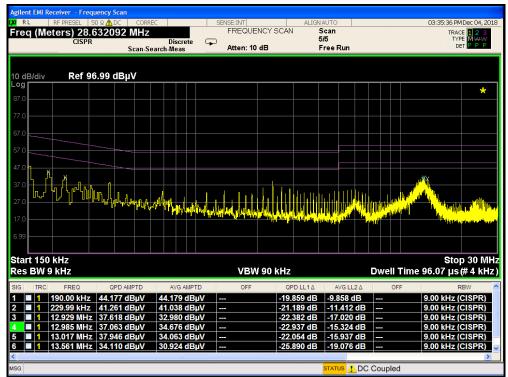
Plot 7-378. Line Conducted Plot with 802.11a UNII Band 3 (L1)



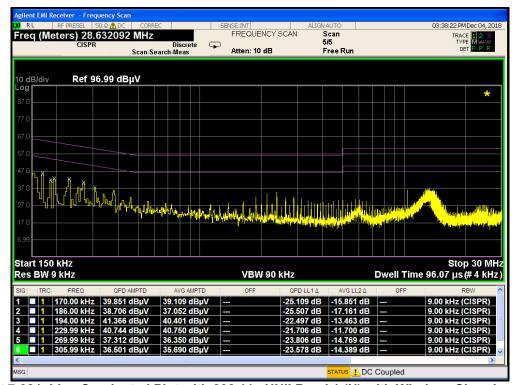
Plot 7-379. Line Conducted Plot with 802.11a UNII Band 3 (N)

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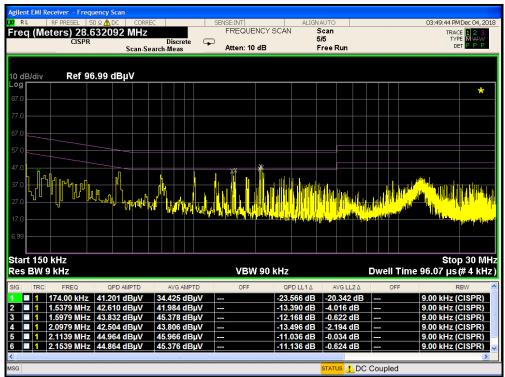
Plot 7-380. Line Conducted Plot with 802.11a UNII Band 1 (L1) with Wireless Charging Pad



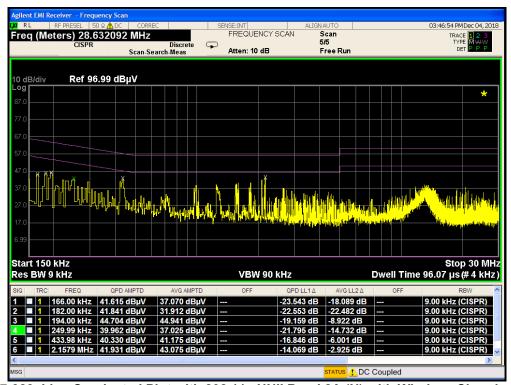
Plot 7-381. Line Conducted Plot with 802.11a UNII Band 1 (N) with Wireless Charging Pad

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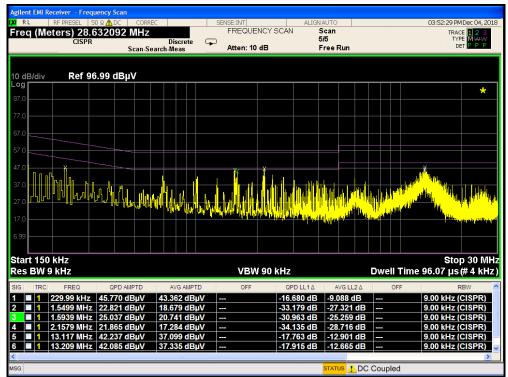
Plot 7-382. Line Conducted Plot with 802.11a UNII Band 2A (L1) with Wireless Charging Pad



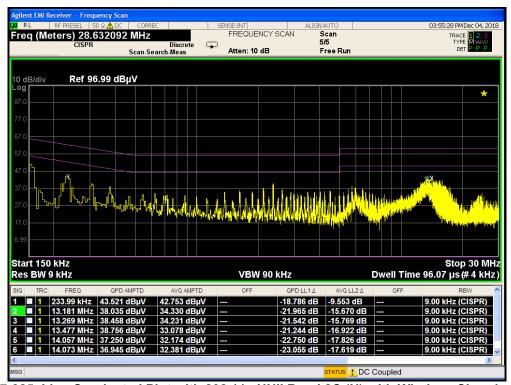
Plot 7-383. Line Conducted Plot with 802.11a UNII Band 2A (N) with Wireless Charging Pad

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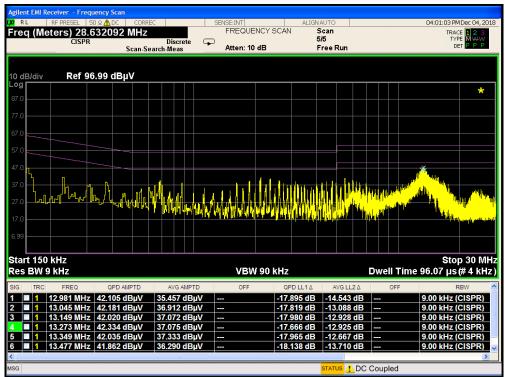
Plot 7-384. Line Conducted Plot with 802.11a UNII Band 2C (L1) with Wireless Charging Pad



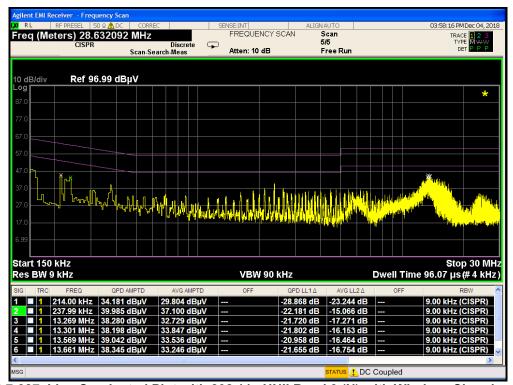
Plot 7-385. Line Conducted Plot with 802.11a UNII Band 2C (N) with Wireless Charging Pad

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Plot 7-386. Line Conducted Plot with 802.11a UNII Band 3 (L1) with Wireless Charging Pad



Plot 7-387. Line Conducted Plot with 802.11a UNII Band 3 (N) with Wireless Charging Pad

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CONCLUSION 8.0

The data collected relate only the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMG9700 is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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