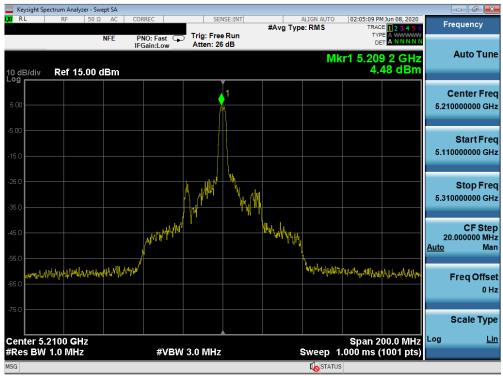


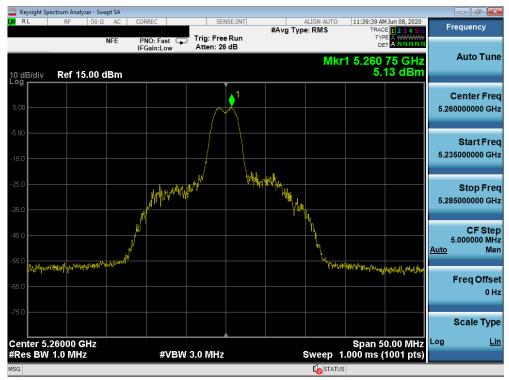
Plot 7-275. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



Plot 7-276. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

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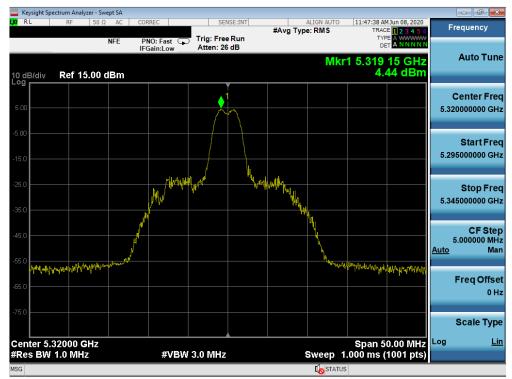
Plot 7-277. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



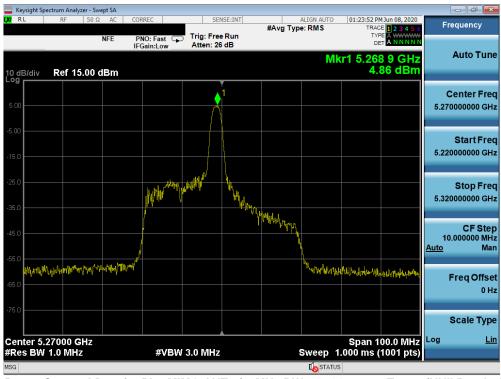
Plot 7-278. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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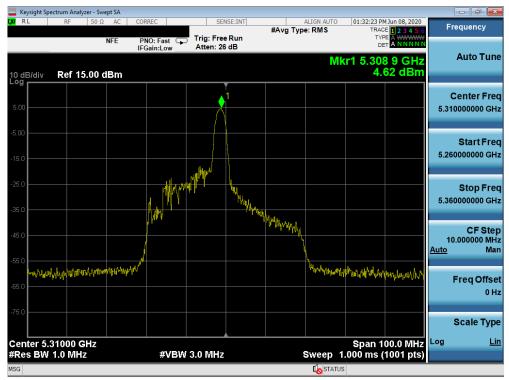
Plot 7-279. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



Plot 7-280. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

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Plot 7-281. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



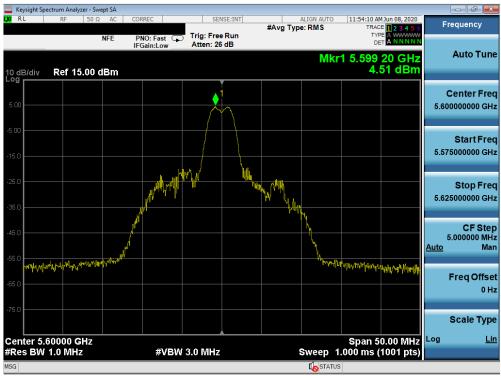
Plot 7-282. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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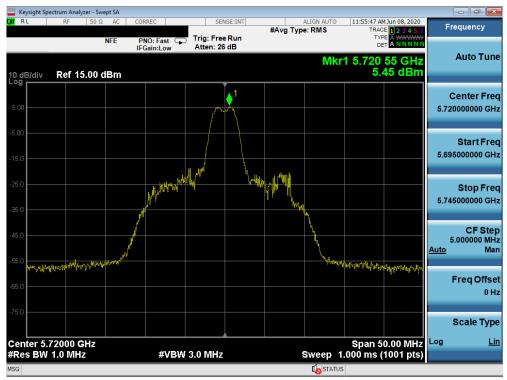
Plot 7-283. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-284. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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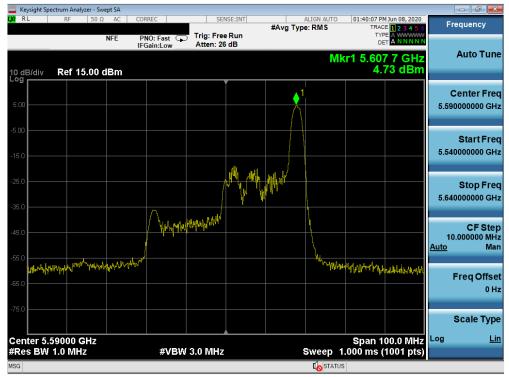
Plot 7-285. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



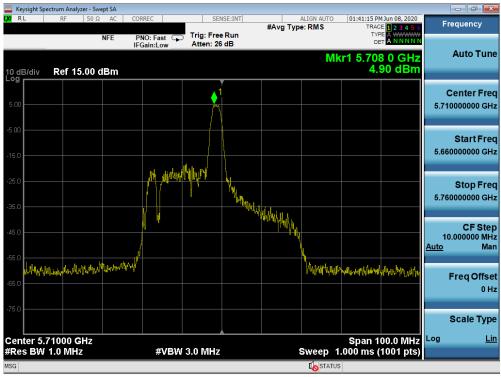
Plot 7-286. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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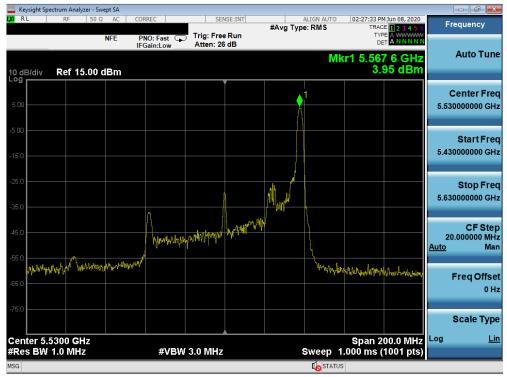
Plot 7-287. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



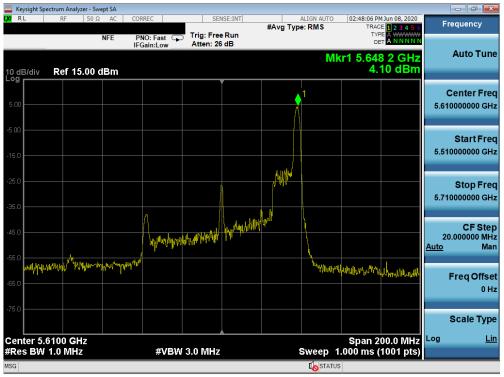
Plot 7-288. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-289. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



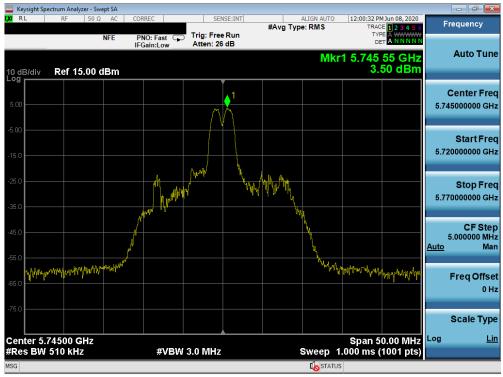
Plot 7-290. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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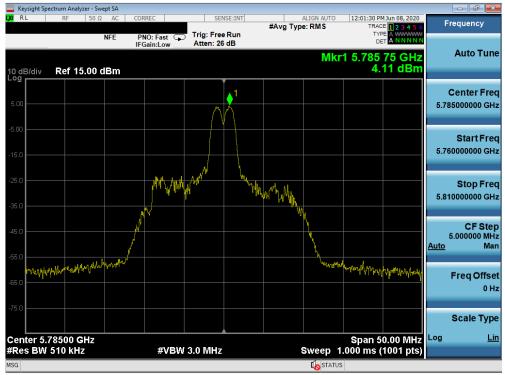
Plot 7-291. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)



Plot 7-292. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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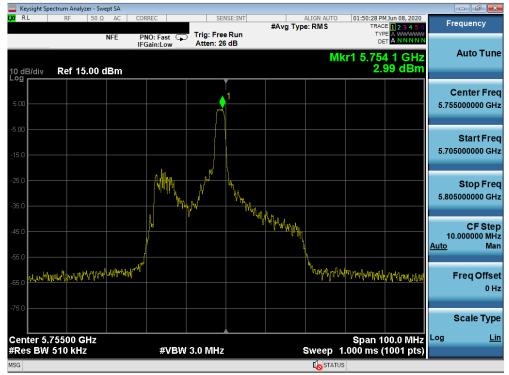
Plot 7-293. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)



Plot 7-294. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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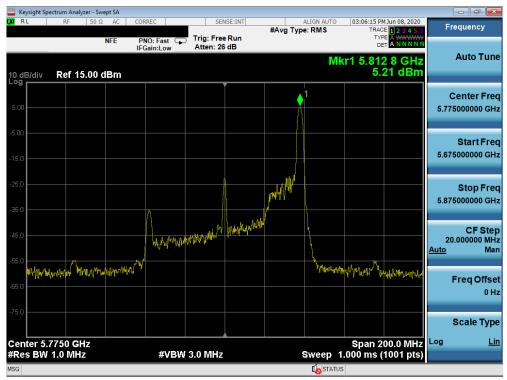
Plot 7-295. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)



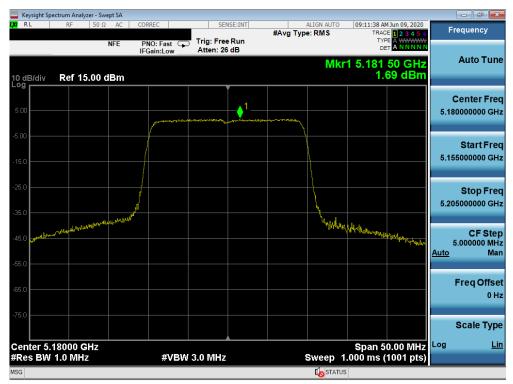
Plot 7-296. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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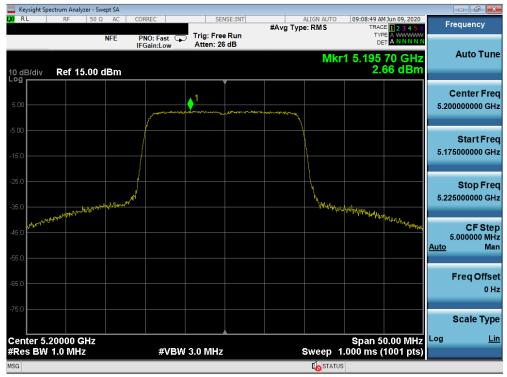
Plot 7-297. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)



Plot 7-298. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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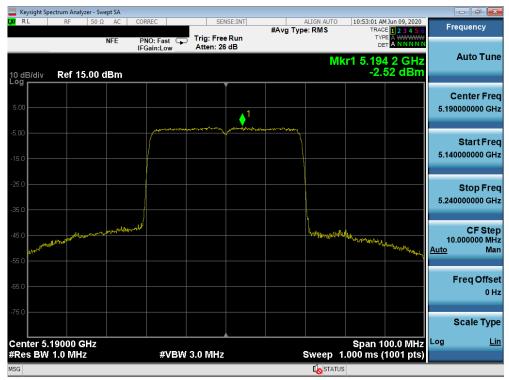
Plot 7-299. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)



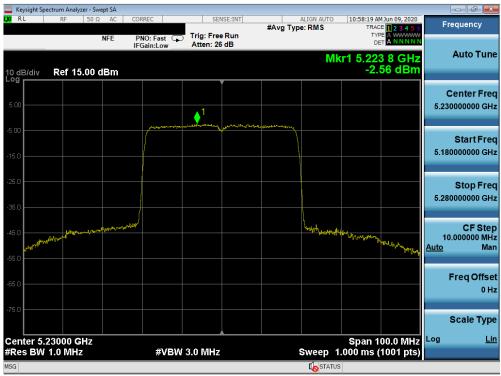
Plot 7-300. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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Plot 7-301. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)



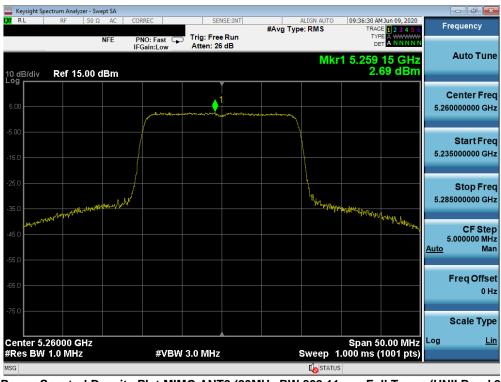
Plot 7-302. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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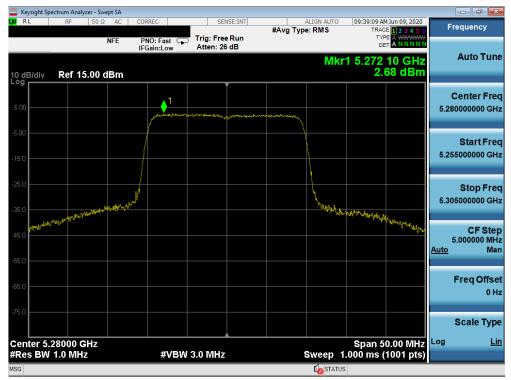
Plot 7-303. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)



Plot 7-304. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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Plot 7-305. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)



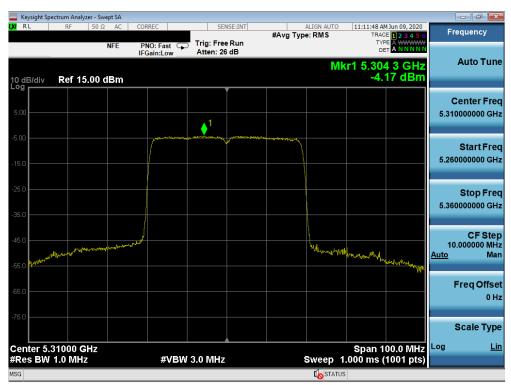
Plot 7-306. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-307. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)



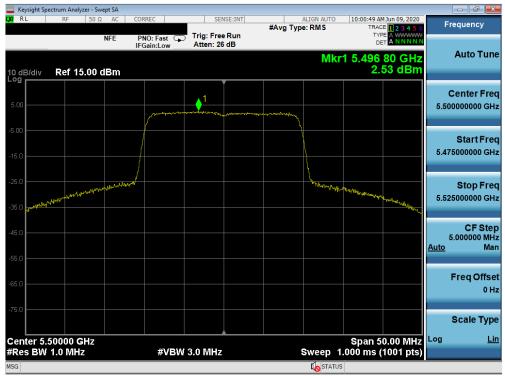
Plot 7-308. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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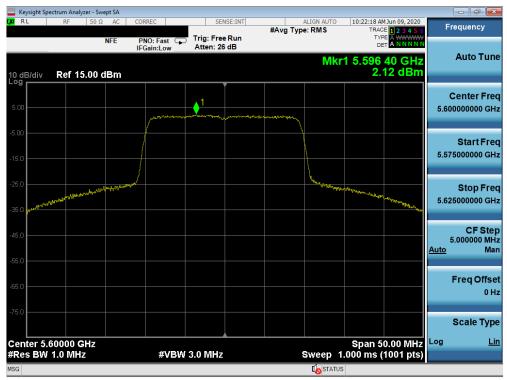
Plot 7-309. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)



Plot 7-310. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-311. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)



Plot 7-312. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-313. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)



Plot 7-314. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-315. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)



Plot 7-316. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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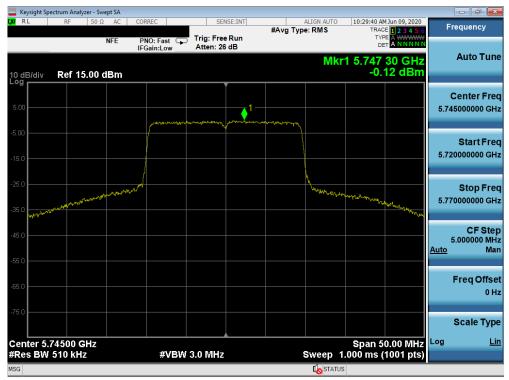
Plot 7-317. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)



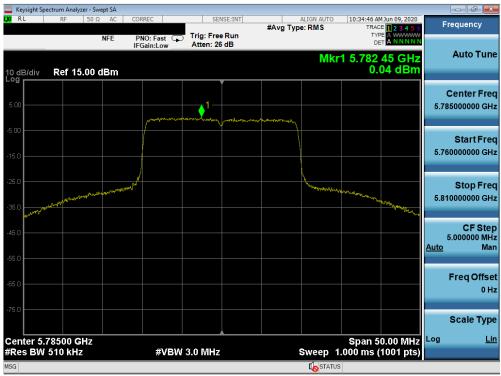
Plot 7-318. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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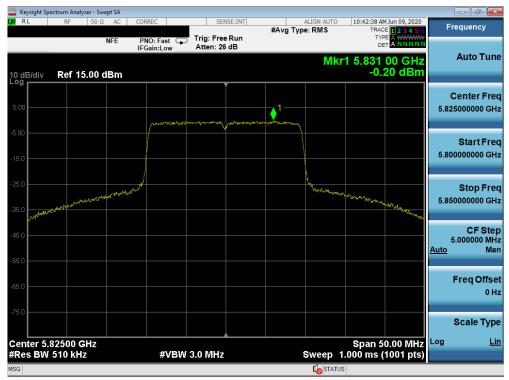
Plot 7-319. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



Plot 7-320. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-321. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



Plot 7-322. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-323. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)



Plot 7-324. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

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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. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-73 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-73. Radiated Limits

Test Procedures Used

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

Test Settings

Average Measurements above 1GHz (Method AD)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 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.

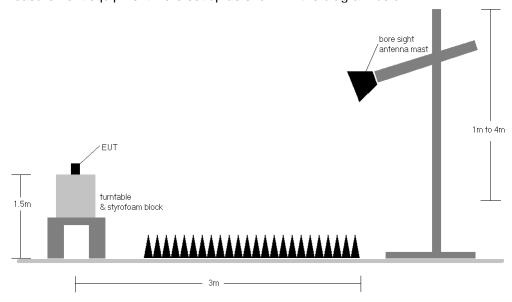


Figure 7-5. Test Instrument & Measurement Setup

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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 7-73.
- 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 7-73. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

 The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

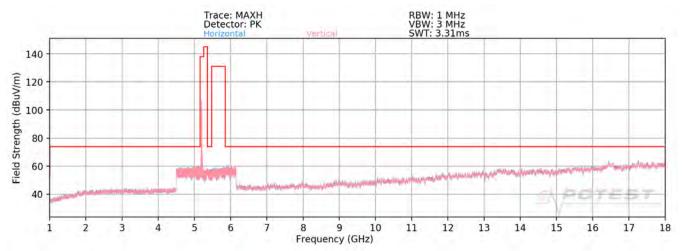
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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O COCC POTEOT				110000010110010

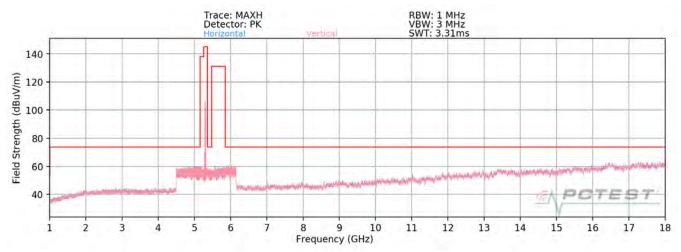


SISO Antenna-1 Radiated Spurious Emission Measurements 7.6.1

26 Tones



Plot 7-325. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U1 Ch. 40 - 26 Tones)

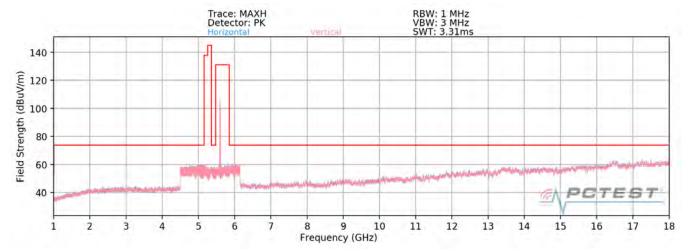


Plot 7-326. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 26 Tones)

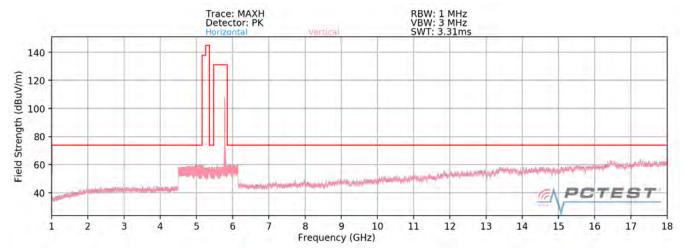
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-327. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)

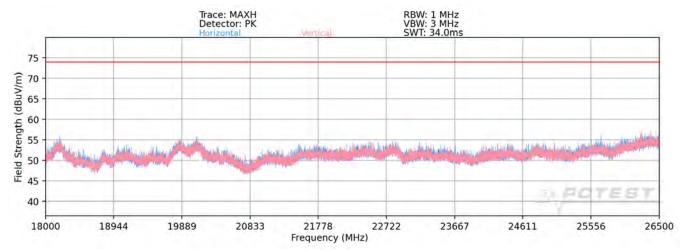


Plot 7-328. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U3 Ch. 157 - 26 Tones)

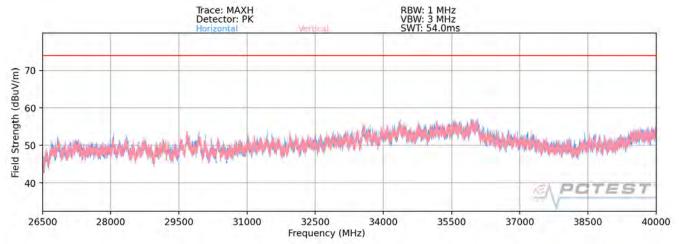
FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-329. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax - 26 Tones)



Plot 7-330. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax - 26 Tones)

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SISO Antenna-1 Radiated Spurious Emission Measurements (26 Tones) §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5180MHz

Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	-	-	-70.21	14.45	0.00	51.24	68.20	-16.96
*	15540.00	Average	V	175	45	-82.01	21.74	0.00	46.73	53.98	-7.25
*	15540.00	Peak	V	175	45	-70.22	21.74	0.00	58.52	73.98	-15.46
*	20720.00	Average	V	-	-	-75.24	17.88	-9.54	40.10	53.98	-13.88
*	20720.00	Peak	V	-	-	-65.30	17.88	-9.54	50.04	73.98	-23.94
	25900.00	Peak	V	-	-	-64.18	20.40	-9.54	53.68	68.20	-14.52

Table 7-74. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5200MHz

Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	-	-	-70.01	14.60	0.00	51.59	68.20	-16.61
*	15600.00	Average	V	166	51	-81.54	21.90	0.00	47.36	53.98	-6.62
*	15600.00	Peak	V	166	51	-69.82	21.90	0.00	59.08	73.98	-14.90
*	20800.00	Average	V	-	-	-76.28	18.08	-9.54	39.26	53.98	-14.72
*	20800.00	Peak	V	-	-	-69.85	18.08	-9.54	45.69	73.98	-28.29
	26000.00	Peak	V	-	-	-63.83	20.68	-9.54	54.30	68.20	-13.90

Table 7-75. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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O COCCO DOTEOT		•		1100000010110010



Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

RU Index:

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	V	-		-71.01	14.57	0.00	50.56	68.20	-17.64
*	15720.00	Average	V	-	-	-80.11	22.17	0.00	49.06	53.98	-4.92
*	15720.00	Peak	V	-	-	-70.00	22.17	0.00	59.17	73.98	-14.81
*	20960.00	Average	V	-	-	-74.88	18.46	-9.54	41.04	53.98	-12.94
*	20960.00	Peak	V	-	-	-66.18	18.46	-9.54	49.74	73.98	-24.24
	26200.00	Peak	V	-	-	-63.99	20.96	-9.54	54.43	68.20	-13.77

Table 7-76. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

RU Index:

1 & 3 Meters

Distance of Measurements: Operating Frequency:

5260MHz

Channel:

52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	-		-70.25	15.10	0.00	51.85	68.20	-16.35
*	15780.00	Average	V	-	-	-88.21	21.87	0.00	40.66	53.98	-13.32
*	15780.00	Peak	V	-	-	-69.87	21.87	0.00	59.00	73.98	-14.98
*	21040.00	Average	V	-	-	-74.54	18.64	-9.54	41.55	53.98	-12.43
*	21040.00	Peak	V	-	-	-64.30	18.64	-9.54	51.79	73.98	-22.19
	26300.00	Peak	V	-	-	-63.46	21.23	-9.54	55.23	68.20	-12.97

Table 7-77. Radiated Measurements SISO ANT1 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate:

MCS0

RU Index:

54

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5280MHz

Channel:

56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-69.88	14.95	0.00	52.07	68.20	-16.13
*	15840.00	Average	V	-	-	-87.22	22.33	0.00	42.11	53.98	-11.87
*	15840.00	Peak	V	-	-	-68.95	22.33	0.00	60.38	73.98	-13.60
*	21120.00	Average	V	-	-	-73.63	18.80	-9.54	42.63	53.98	-11.35
*	21120.00	Peak	V	-	-	-66.09	18.80	-9.54	50.17	73.98	-23.81
	26400.00	Peak	V	-	-	-62.47	21.49	-9.54	56.47	68.20	-11.73

Table 7-78. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index:

54

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5320MHz

Channel:

64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-82.33	15.37	0.00	40.04	53.98	-13.94
*	10640.00	Peak	V	-	-	-69.32	15.37	0.00	53.05	73.98	-20.93
*	15960.00	Average	V	-	-	-83.01	22.27	0.00	46.26	53.98	-7.72
*	15960.00	Peak	V	-	-	-69.99	22.27	0.00	59.28	73.98	-14.70
*	21280.00	Average	V	-	-	-75.62	18.76	-9.54	40.60	53.98	-13.38
*	21280.00	Peak	V	-	-	-65.53	18.76	-9.54	50.69	73.98	-23.29
	26600.00	Peak	V	-	1	-64.96	6.35	-9.54	38.84	68.20	-29.36

Table 7-79. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

RU Index:

1 & 3 Meters

Distance of Measurements:
Operating Frequency:

5500MHz

Channel:

100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	-	•	-83.21	16.28	0.00	40.07	53.98	-13.91
*	11000.00	Peak	V	-	ı	-70.11	16.28	0.00	53.17	73.98	-20.81
	16500.00	Peak	V	-	•	-68.21	23.88	0.00	62.67	68.20	-5.53
	22000.00	Peak	V	-	ı	-64.92	19.37	-9.54	51.91	68.20	-16.29
	27500.00	Peak	V	-	-	-54.34	5.07	-9.54	48.19	68.20	-20.01

Table 7-80. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	-	-	-81.05	16.05	0.00	42.00	53.98	-11.98
*	11200.00	Peak	V	-	-	-67.54	16.05	0.00	55.51	73.98	-18.47
ĺ	16800.00	Peak	V	-	-	-71.22	24.05	0.00	59.83	68.20	-8.37
*	22400.00	Average	V	-	-	-74.10	20.25	-9.54	43.60	53.98	-10.38
*	22400.00	Peak	V	-	=	-65.33	20.25	-9.54	52.37	73.98	-21.61
ĺ	28000.00	Peak	V	-	-	-56.38	6.42	-9.54	47.50	68.20	-20.70

Table 7-81. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

RU Index:

1 & 3 Meters

Distance of Measurements: Operating Frequency:

5720MHz

Channel:

144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	-	-	-81.24	17.03	0.00	42.79	53.98	-11.19
*	11440.00	Peak	V	-	-	-70.09	17.03	0.00	53.94	73.98	-20.04
	17160.00	Peak	V	-	-	-68.86	23.47	0.00	61.61	68.20	-6.59
*	22880.00	Average	V	-	-	-73.64	19.64	-9.54	43.46	53.98	-10.52
*	22880.00	Peak	V	-	-	-65.04	19.64	-9.54	52.06	73.98	-21.92
	28600.00	Peak	V	-	-	-54.72	5.12	-9.54	47.85	68.20	-20.35

Table 7-82. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

RU Index:

Channel:

1 & 3 Meters

Distance of Measurements:

5745MHz

Operating Frequency:

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	-	-	-80.29	16.80	0.00	43.51	53.98	-10.47
*	11490.00	Peak	V	-	-	-67.58	16.80	0.00	56.22	73.98	-17.76
	17235.00	Peak	V	-	-	-70.65	24.70	0.00	61.05	68.20	-7.15
*	22980.00	Average	V	-	-	-75.08	19.39	-9.54	41.77	53.98	-12.21
*	22980.00	Peak	V	-	-	-65.25	19.39	-9.54	51.60	73.98	-22.38
	28725.00	Peak	V	-	-	-55.69	6.24	-9.54	48.01	68.20	-20.19

Table 7-83. Radiated Measurements SISO ANT1 (26 Tones)

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RU Index:

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5785MHz

Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	-	•	-80.65	16.48	0.00	42.83	53.98	-11.15
*	11570.00	Peak	V	-	-	-65.32	16.48	0.00	58.16	73.98	-15.82
	17355.00	Peak	V	-	•	-69.87	25.37	0.00	62.50	68.20	-5.70
	23140.00	Peak	٧	-	ı	-62.45	19.78	-9.54	54.78	68.20	-13.42
	28925.00	Peak	V	-	-	-54.29	5.18	-9.54	48.35	68.20	-19.85

Table 7-84. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

Channel: 165

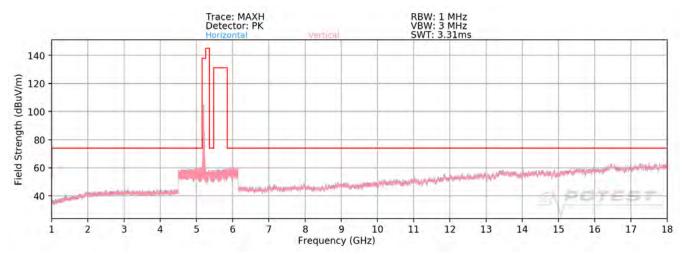
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	-	i	-80.69	16.99	0.00	43.30	53.98	-10.67
*	11650.00	Peak	V	-	ı	-67.20	16.99	0.00	56.79	73.98	-17.18
	17475.00	Peak	V	-	-	-71.04	25.73	0.00	61.69	68.20	-6.51
	23300.00	Peak	V	-	ı	-63.23	20.06	-9.54	54.29	68.20	-13.91
	29125.00	Peak	V	-	-	-53.25	4.94	-9.54	49.15	68.20	-19.05

Table 7-85. Radiated Measurements SISO ANT1 (26 Tones)

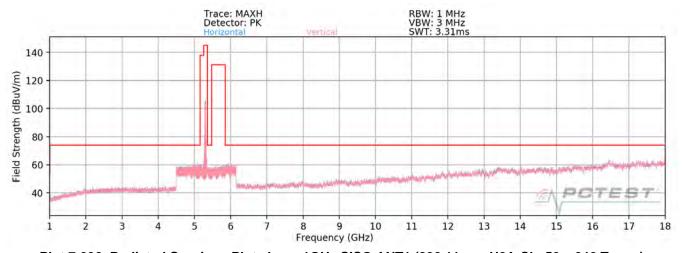
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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242 Tones



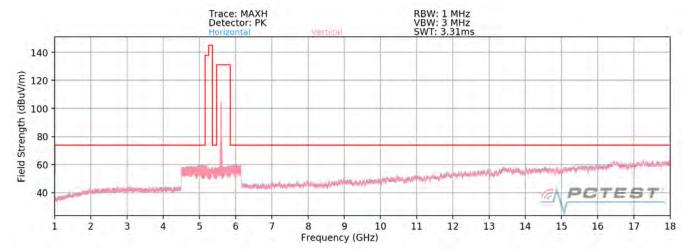
Plot 7-331. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U1 Ch. 40 - 242 Tones)



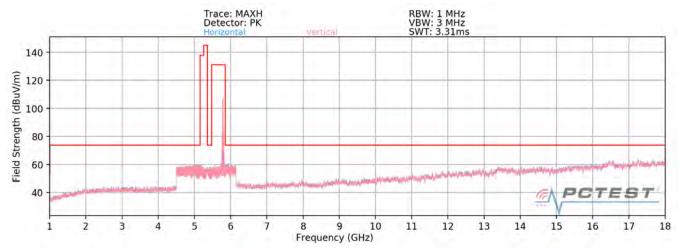
Plot 7-332. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-333. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)

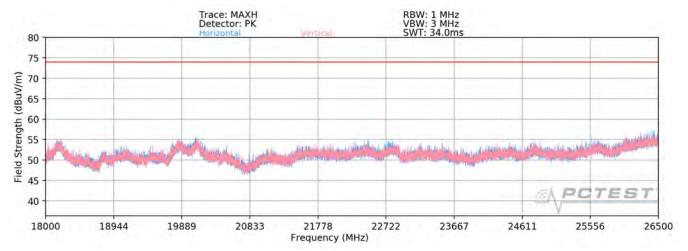


Plot 7-334. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U3 Ch. 157 - 242 Tones)

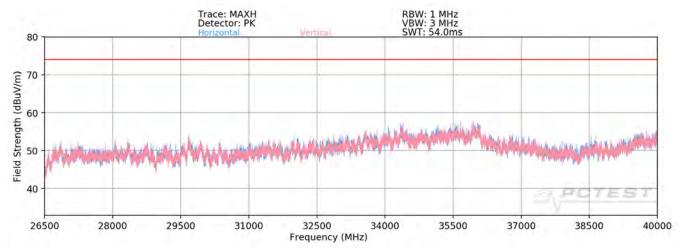
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 225 of 202
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-335. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax - 242 Tones)



Plot 7-336. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax - 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5180MHz

Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	-	-	-69.36	14.45	0.00	52.09	68.20	-16.11
*	15540.00	Average	V	179	45	-80.86	21.74	0.00	47.88	53.98	-6.10
*	15540.00	Peak	V	179	45	-69.59	21.74	0.00	59.15	73.98	-14.83
*	20720.00	Average	V	-	-	-74.52	17.88	-9.54	40.82	53.98	-13.16
*	20720.00	Peak	V	-	-	-65.52	17.88	-9.54	49.82	73.98	-24.16
Ī	25900.00	Peak	V	-	-	-63.67	20.40	-9.54	54.19	68.20	-14.01

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5200MHz

Channel: 40

,	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	-	-	-69.56	14.60	0.00	52.04	68.20	-16.16
*	15600.00	Average	V	167	25	-80.14	21.90	0.00	48.76	53.98	-5.22
*	15600.00	Peak	V	167	25	-68.18	21.90	0.00	60.72	73.98	-13.26
*	20800.00	Average	V	-	-	-75.93	18.08	-9.54	39.61	53.98	-14.37
*	20800.00	Peak	V	-	-	-66.90	18.08	-9.54	48.64	73.98	-25.34
	26000.00	Peak	V	-	-	-63.68	20.68	-9.54	54.45	68.20	-13.75

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

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	-	-	-69.48	14.57	0.00	52.09	68.20	-16.11
*	15720.00	Average	V	307	309	-80.52	22.17	0.00	48.65	53.98	-5.33
*	15720.00	Peak	V	307	309	-68.99	22.17	0.00	60.18	73.98	-13.80
*	20960.00	Average	V	-	-	-75.20	18.46	-9.54	40.72	53.98	-13.26
*	20960.00	Peak	V	-	-	-66.94	18.46	-9.54	48.98	73.98	-25.00
	26200.00	Peak	V	-	-	-63.96	20.96	-9.54	54.46	68.20	-13.74

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

61

RU Index:

1 & 3 Meters

Distance of Measurements: Operating Frequency:

5260MHz

Channel:

52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	-		-69.84	15.10	0.00	52.26	68.20	-15.94
*	15780.00	Average	V	351	327	-80.10	21.87	0.00	48.77	53.98	-5.21
*	15780.00	Peak	V	351	327	-69.43	21.87	0.00	59.44	73.98	-14.54
*	21040.00	Average	V	-	-	-74.65	18.64	-9.54	41.44	53.98	-12.54
*	21040.00	Peak	V	-	-	-65.75	18.64	-9.54	50.34	73.98	-23.64
	26300.00	Peak	V	=	-	-64.14	21.23	-9.54	54.55	68.20	-13.65

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

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

61

RU Index:

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5280MHz

Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-69.53	14.95	0.00	52.42	68.20	-15.78
*	15840.00	Average	V	362	341	-81.19	22.33	0.00	48.14	53.98	-5.84
*	15840.00	Peak	V	362	341	-69.55	22.33	0.00	59.78	73.98	-14.20
*	21120.00	Average	V	-	-	-74.86	18.80	-9.54	41.40	53.98	-12.58
*	21120.00	Peak	V	-	-	-65.77	18.80	-9.54	50.49	73.98	-23.49
	26400.00	Peak	V	-	-	-62.17	21.49	-9.54	56.77	68.20	-11.43

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

RU Index:

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-81.04	15.37	0.00	41.33	53.98	-12.65
*	10640.00	Peak	V	-	-	-70.03	15.37	0.00	52.34	73.98	-21.64
*	15960.00	Average	V	376	345	-81.62	22.27	0.00	47.65	53.98	-6.33
*	15960.00	Peak	V	376	345	-69.46	22.27	0.00	59.81	73.98	-14.17
*	21280.00	Average	V	-	-	-74.80	18.76	-9.54	41.42	53.98	-12.56
*	21280.00	Peak	V	-	-	-66.01	18.76	-9.54	50.21	73.98	-23.77
	26600.00	Peak	V	-	-	-64.25	6.35	-9.54	39.55	68.20	-28.65

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

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5500MHz

Channel:

100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	202	363	-80.08	16.28	0.00	43.20	53.98	-10.78
*	11000.00	Peak	V	202	363	-68.82	16.28	0.00	54.46	73.98	-19.52
	16500.00	Peak	V	-	•	-70.00	23.88	0.00	60.88	68.20	-7.32
	22000.00	Peak	V	-	-	-66.09	19.37	-9.54	50.74	68.20	-17.46
	27500.00	Peak	V	-	=	-52.41	5.07	-9.54	50.12	68.20	-18.08

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	188	349	-79.84	16.05	0.00	43.21	53.98	-10.77
*	11200.00	Peak	V	188	349	-68.34	16.05	0.00	54.71	73.98	-19.27
ĺ	16800.00	Peak	V	-	-	-70.19	24.05	0.00	60.86	68.20	-7.34
*	22400.00	Average	V	-	-	-74.43	20.25	-9.54	43.27	53.98	-10.71
*	22400.00	Peak	V	-	-	-65.12	20.25	-9.54	52.58	73.98	-21.40
ĺ	28000.00	Peak	V	-	-	-54.41	6.42	-9.54	49.47	68.20	-18.73

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

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5720MHz

Channel:

RU Index:

144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	188	359	-78.70	17.03	0.00	45.33	53.98	-8.65
*	11440.00	Peak	V	188	359	-64.43	17.03	0.00	59.60	73.98	-14.38
	17160.00	Peak	V	-	-	-69.29	23.47	0.00	61.18	68.20	-7.02
*	22880.00	Average	V	-	-	-73.44	19.64	-9.54	43.66	53.98	-10.32
*	22880.00	Peak	V	-	-	-64.70	19.64	-9.54	52.40	73.98	-21.58
	28600.00	Peak	V	-	-	-54.25	5.12	-9.54	48.32	68.20	-19.88

Table 7-94. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	176	6	-78.08	16.80	0.00	45.72	53.98	-8.26
*	11490.00	Peak	V	176	6	-64.00	16.80	0.00	59.80	73.98	-14.18
ĺ	17235.00	Peak	V	-	-	-70.41	24.70	0.00	61.29	68.20	-6.91
*	22980.00	Average	V	-	-	-75.63	19.39	-9.54	41.22	53.98	-12.76
*	22980.00	Peak	V	-	-	-66.38	19.39	-9.54	50.47	73.98	-23.51
	28725.00	Peak	V	-	-	-53.43	6.24	-9.54	50.27	68.20	-17.93

Table 7-95. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5785MHz

Channel:

157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	176	356	-76.79	16.48	0.00	46.69	53.98	-7.29
*	11570.00	Peak	V	176	356	-62.92	16.48	0.00	60.56	73.98	-13.42
	17355.00	Peak	V	-	•	-70.79	25.37	0.00	61.58	68.20	-6.62
	23140.00	Peak	V	-	ı	-65.43	19.78	-9.54	51.80	68.20	-16.40
	28925.00	Peak	V	-	=	-54.50	5.18	-9.54	48.14	68.20	-20.06

Table 7-96. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5825MHz

Channel:

165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	184	3	-76.61	16.99	0.00	47.38	53.98	-6.59
*	11650.00	Peak	V	184	3	-62.94	16.99	0.00	61.05	73.98	-12.92
	17475.00	Peak	V	-	-	-70.53	25.73	0.00	62.20	68.20	-6.00
	23300.00	Peak	V	-	•	-64.77	20.06	-9.54	52.75	68.20	-15.45
	29125.00	Peak	V	-	-	-52.70	4.94	-9.54	49.70	68.20	-18.50

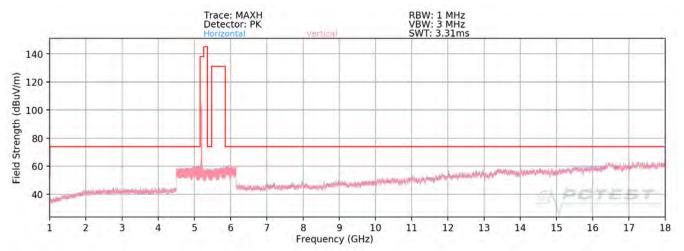
Table 7-97. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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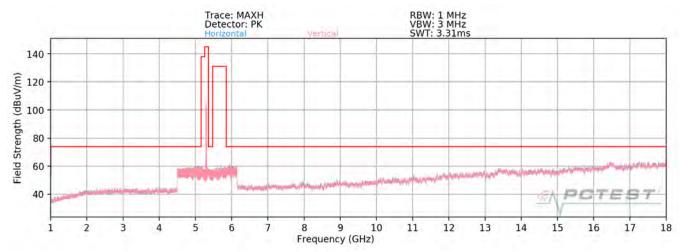


7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

26 Tones



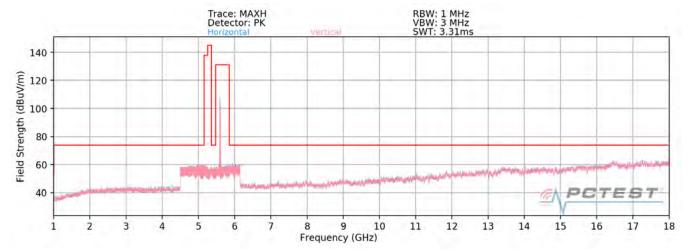
Plot 7-337. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax - U1 Ch. 40 - 26 Tones)



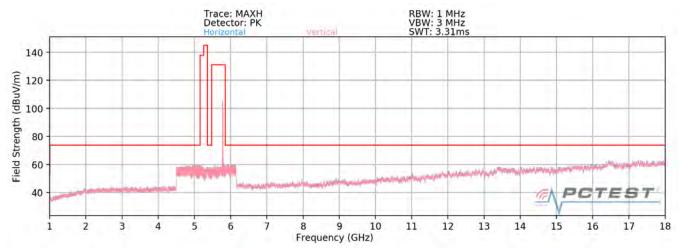
Plot 7-338. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 26 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-339. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 26 Tones)

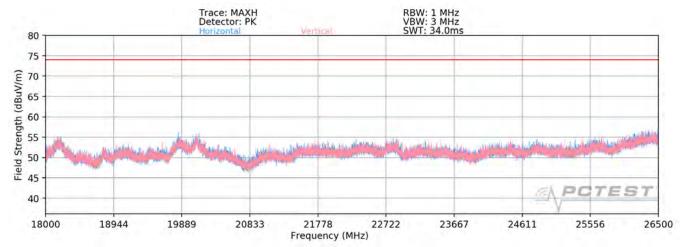


Plot 7-340. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax - U3 Ch. 157 - 26 Tones)

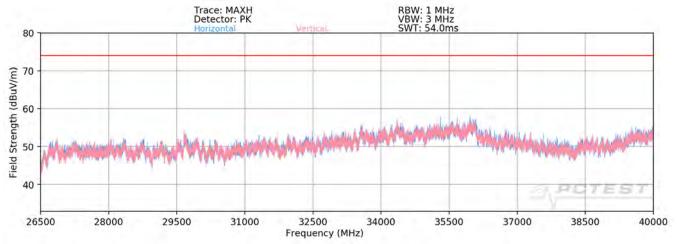
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-341. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax - 26 Tones)



Plot 7-342. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax - 26 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	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: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5180MHz

Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	-	-	-69.35	14.45	0.00	52.10	68.20	-16.10
*	15540.00	Average	V	187	329	-80.51	21.74	0.00	48.23	53.98	-5.75
*	15540.00	Peak	V	187	329	-63.63	21.74	0.00	65.11	73.98	-8.87
*	20720.00	Average	V	-	-	-74.84	17.88	-9.54	40.50	53.98	-13.48
*	20720.00	Peak	V	-	-	-65.97	17.88	-9.54	49.37	73.98	-24.61
	25900.00	Peak	V	-	=	-63.60	20.40	-9.54	54.26	68.20	-13.94

Table 7-98. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

1 & 3 Meters Distance of Measurements:

Operating Frequency: 5200MHz

Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	-	-	-69.06	14.60	0.00	52.54	68.20	-15.66
*	15600.00	Average	V	191	321	-78.39	21.90	0.00	50.51	53.98	-3.47
*	15600.00	Peak	V	191	321	-61.06	21.90	0.00	67.84	73.98	-6.14
*	20800.00	Average	V	-	-	-76.36	18.08	-9.54	39.18	53.98	-14.80
*	20800.00	Peak	V	-	-	-66.38	18.08	-9.54	49.16	73.98	-24.82
	26000.00	Peak	V	-	-	-63.99	20.68	-9.54	54.14	68.20	-14.06

Table 7-99. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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RU Index:

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	-	-	-69.61	14.57	0.00	51.96	68.20	-16.24
*	15720.00	Average	V	188	329	-78.60	22.17	0.00	50.57	53.98	-3.41
*	15720.00	Peak	V	188	329	-63.48	22.17	0.00	65.69	73.98	-8.29
*	20960.00	Average	V	-	-	-75.08	18.46	-9.54	40.84	53.98	-13.14
*	20960.00	Peak	V	-	-	-65.32	18.46	-9.54	50.60	73.98	-23.38
	26200.00	Peak	V	-	-	-64.07	20.96	-9.54	54.35	68.20	-13.85

Table 7-100. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54

RU Index:

1 & 3 Meters

Distance of Measurements: Operating Frequency:

5260MHz

Channel:

52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	-		-68.60	15.10	0.00	53.50	68.20	-14.70
*	15780.00	Average	V	264	341	-78.83	21.87	0.00	50.04	53.98	-3.94
*	15780.00	Peak	V	264	341	-62.12	21.87	0.00	66.75	73.98	-7.23
*	21040.00	Average	V	-	-	-74.73	18.64	-9.54	41.36	53.98	-12.62
*	21040.00	Peak	V	-	-	-65.22	18.64	-9.54	50.87	73.98	-23.11
	26300.00	Peak	V	-	-	-62.73	21.23	-9.54	55.96	68.20	-12.24

Table 7-101. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

IVICO

RU Index:

54

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5280MHz

Channel:

56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-69.60	14.95	0.00	52.35	68.20	-15.85
*	15840.00	Average	V	191	317	-80.05	22.33	0.00	49.28	53.98	-4.70
*	15840.00	Peak	V	191	317	-66.28	22.33	0.00	63.05	73.98	-10.93
*	21120.00	Average	V	-	-	-75.09	18.80	-9.54	41.17	53.98	-12.81
*	21120.00	Peak	V	-	-	-65.43	18.80	-9.54	50.83	73.98	-23.15
	26400.00	Peak	V	-	=	-63.51	21.49	-9.54	55.43	68.20	-12.77

Table 7-102. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

- -

RU Index:

54

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5320MHz

Channel:

64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-81.05	15.37	0.00	41.32	53.98	-12.66
*	10640.00	Peak	V	-	-	-69.28	15.37	0.00	53.09	73.98	-20.89
*	15960.00	Average	V	261	331	-79.76	22.27	0.00	49.51	53.98	-4.47
*	15960.00	Peak	V	261	331	-64.18	22.27	0.00	65.09	73.98	-8.89
*	21280.00	Average	V	-	-	-75.75	18.76	-9.54	40.47	53.98	-13.51
*	21280.00	Peak	V	-	-	-65.38	18.76	-9.54	50.84	73.98	-23.14
	26600.00	Peak	V	-	-	-64.62	6.35	-9.54	39.18	68.20	-29.02

Table 7-103. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5500MHz

Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	-	-	-80.19	16.28	0.00	43.09	53.98	-10.89
*	11000.00	Peak	V	-	-	-68.04	16.28	0.00	55.24	73.98	-18.74
	16500.00	Peak	V	183	325	-68.10	23.88	0.00	62.78	68.20	-5.42
	22000.00	Peak	٧	-	-	-64.47	19.37	-9.54	52.36	68.20	-15.84
	27500.00	Peak	V	-	-	-53.04	5.07	-9.54	49.49	68.20	-18.71

Table 7-104. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	293	291	-80.08	16.05	0.00	42.97	53.98	-11.01
*	11200.00	Peak	V	293	291	-66.96	16.05	0.00	56.09	73.98	-17.89
ĺ	16800.00	Peak	V		-	-70.16	24.05	0.00	60.89	68.20	-7.31
*	22400.00	Average	V	-	-	-73.99	20.25	-9.54	43.71	53.98	-10.27
*	22400.00	Peak	V	-	-	-65.07	20.25	-9.54	52.63	73.98	-21.35
Ī	28000.00	Peak	V	-	-	-55.50	6.42	-9.54	48.38	68.20	-19.82

Table 7-105. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5720MHz

Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	269	295	-80.53	17.03	0.00	43.50	53.98	-10.48
*	11440.00	Peak	V	269	295	-69.49	17.03	0.00	54.54	73.98	-19.44
	17160.00	Peak	V	-	-	-68.88	23.47	0.00	61.59	68.20	-6.61
*	22880.00	Average	V	-	-	-73.39	19.64	-9.54	43.71	53.98	-10.27
*	22880.00	Peak	V	-	-	-64.36	19.64	-9.54	52.74	73.98	-21.24
	28600.00	Peak	V	-	-	-53.56	5.12	-9.54	49.01	68.20	-19.19

Table 7-106. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	214	294	-79.91	16.80	0.00	43.89	53.98	-10.09
*	11490.00	Peak	V	214	294	-67.00	16.80	0.00	56.80	73.98	-17.18
ĺ	17235.00	Peak	V	-	-	-69.50	24.70	0.00	62.20	68.20	-6.00
*	22980.00	Average	V	-	-	-74.92	19.39	-9.54	41.93	53.98	-12.05
*	22980.00	Peak	V	-	-	-65.62	19.39	-9.54	51.23	73.98	-22.75
	28725.00	Peak	V	-	-	-52.16	6.24	-9.54	51.54	68.20	-16.66

Table 7-107. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

54

RU Index:

Distance of Measurements:

1 & 3 Meters 5785MHz

Operating Frequency: Channel:

157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	200	296	-79.32	16.48	0.00	44.16	53.98	-9.82
*	11570.00	Peak	V	200	296	-64.22	16.48	0.00	59.26	73.98	-14.72
	17355.00	Peak	V	-	•	-69.61	25.37	0.00	62.76	68.20	-5.44
	23140.00	Peak	V	-	-	-65.86	19.78	-9.54	51.37	68.20	-16.83

-55.19 Table 7-108. Radiated Measurements SISO ANT2 (26 Tones)

68.20

-20.75

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index:

28925.00

54

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5825MHz

Channel:

165

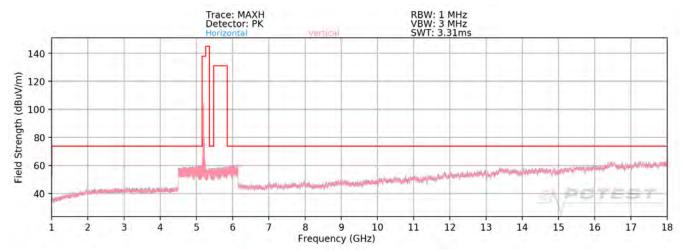
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	176	292	-79.02	16.99	0.00	44.97	53.98	-9.00
*	11650.00	Peak	V	176	292	-64.17	16.99	0.00	59.82	73.98	-14.15
	17475.00	Peak	V	-	ī	-70.07	25.73	0.00	62.66	68.20	-5.54
	23300.00	Peak	٧	-	i	-65.23	20.06	-9.54	52.29	68.20	-15.91
	29125.00	Peak	V	-	-	-51.96	4.94	-9.54	50.44	68.20	-17.76

Table 7-109. Radiated Measurements SISO ANT2 (26 Tones)

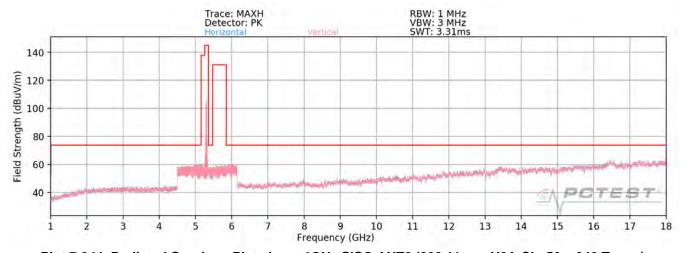
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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242 Tones



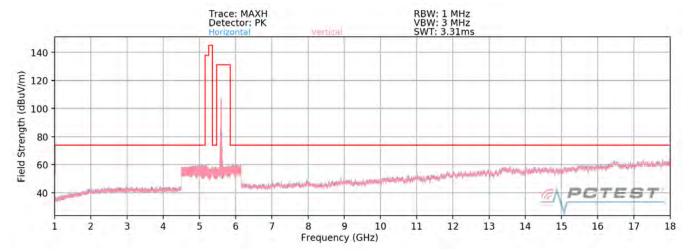
Plot 7-343. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)



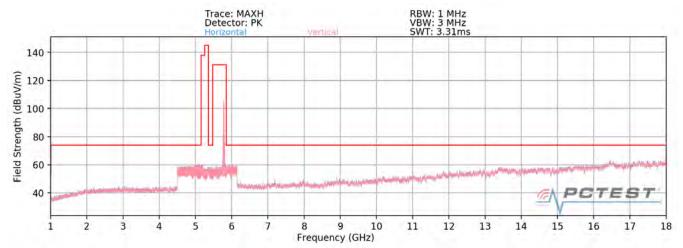
Plot 7-344. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-345. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)

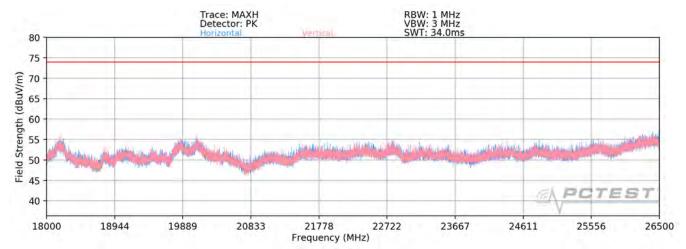


Plot 7-346. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax - U3 Ch. 157 - 242 Tones)

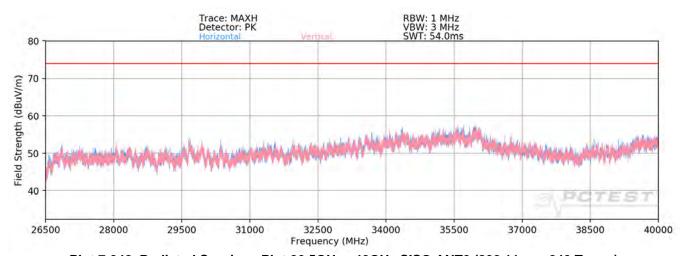
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-347. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax - 242 Tones)



Plot 7-348. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax - 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	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: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5180MHz

Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	190	328	-68.91	14.45	0.00	52.54	68.20	-15.66
*	15540.00	Average	V	-	-	-81.22	21.74	0.00	47.52	53.98	-6.46
*	15540.00	Peak	V	-	-	-70.04	21.74	0.00	58.70	73.98	-15.28
*	20720.00	Average	V	-	-	-74.16	17.88	-9.54	41.18	53.98	-12.80
*	20720.00	Peak	V	-	-	-64.72	17.88	-9.54	50.62	73.98	-23.36
	25900.00	Peak	V	-	-	-64.90	20.40	-9.54	52.96	68.20	-15.24

Table 7-110. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5200MHz

Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	193	330	-68.49	14.60	0.00	53.11	68.20	-15.09
*	15600.00	Average	V	-	-	-81.07	21.90	0.00	47.83	53.98	-6.15
*	15600.00	Peak	V	-	-	-69.38	21.90	0.00	59.52	73.98	-14.46
*	20800.00	Average	V	-	-	-75.81	18.08	-9.54	39.73	53.98	-14.25
*	20800.00	Peak	V	-	-	-66.88	18.08	-9.54	48.66	73.98	-25.32
	26000.00	Peak	V	-	-	-63.57	20.68	-9.54	54.56	68.20	-13.64

Table 7-111. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5240MHz

Channel:

48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	198	329	-67.88	14.57	0.00	53.69	68.20	-14.51
*	15720.00	Average	V	-	-	-80.87	22.17	0.00	48.30	53.98	-5.68
*	15720.00	Peak	V	-	-	-69.36	22.17	0.00	59.81	73.98	-14.17
*	20960.00	Average	V	-	-	-75.19	18.46	-9.54	40.73	53.98	-13.25
*	20960.00	Peak	V	-	-	-65.01	18.46	-9.54	50.91	73.98	-23.07
	26200.00	Peak	V	-	-	-63.02	20.96	-9.54	55.40	68.20	-12.80

Table 7-112. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5260MHz

Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	216	325	-68.48	15.10	0.00	53.62	68.20	-14.58
*	15780.00	Average	V	-	-	-81.34	21.87	0.00	47.53	53.98	-6.45
*	15780.00	Peak	V	-	-	-70.04	21.87	0.00	58.83	73.98	-15.15
*	21040.00	Average	V	-	-	-74.95	18.64	-9.54	41.14	53.98	-12.84
*	21040.00	Peak	V	-	-	-65.26	18.64	-9.54	50.83	73.98	-23.15
	26300.00	Peak	V	-	-	-64.73	21.23	-9.54	53.96	68.20	-14.24

Table 7-113. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

61

RU Index: 6

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5280MHz

Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	303	341	-68.51	14.95	0.00	53.44	68.20	-14.76
*	15840.00	Average	V	-	-	-81.43	22.33	0.00	47.90	53.98	-6.08
*	15840.00	Peak	V	-	-	-70.39	22.33	0.00	58.94	73.98	-15.04
*	21120.00	Average	V	-	-	-74.26	18.80	-9.54	42.00	53.98	-11.98
*	21120.00	Peak	V	-	-	-65.31	18.80	-9.54	50.95	73.98	-23.03
	26400.00	Peak	V	-	-	-63.91	21.49	-9.54	55.03	68.20	-13.17

Table 7-114. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	213	343	-71.51	15.37	0.00	50.86	53.98	-3.12
*	10640.00	Peak	V	-	-	-80.41	15.37	0.00	41.96	73.98	-32.02
*	15960.00	Average	V	-	-	-82.17	22.27	0.00	47.10	53.98	-6.88
*	15960.00	Peak	V	-	-	-70.35	22.27	0.00	58.92	73.98	-15.06
*	21280.00	Average	V	-	-	-74.79	18.76	-9.54	41.43	53.98	-12.55
*	21280.00	Peak	V	-	-	-65.93	18.76	-9.54	50.29	73.98	-23.69
	26600.00	Peak	V	-	-	-64.24	6.35	-9.54	39.56	68.20	-28.64

Table 7-115. Radiated Measurements SISO ANT2 (242 Tones)

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Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters 5500MHz

Operating Frequency: Channel:

100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	152	345	-72.27	16.28	0.00	51.01	53.98	-2.97
*	11000.00	Peak	V	-	-	-80.24	16.28	0.00	43.04	73.98	-30.94
	16500.00	Peak	V	-	•	-70.29	23.88	0.00	60.59	68.20	-7.61
	22000.00	Peak	٧	-	ı	-64.99	19.37	-9.54	51.84	68.20	-16.36
	27500.00	Peak	V	-	-	-53.33	5.07	-9.54	49.20	68.20	-19.00

Table 7-116. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5600MHz

Channel:

120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	190	340	-80.04	16.05	0.00	43.01	53.98	-10.97
*	11200.00	Peak	V	190	340	-68.68	16.05	0.00	54.37	73.98	-19.61
ĺ	16800.00	Peak	V	-	-	-69.29	24.05	0.00	61.76	68.20	-6.44
*	22400.00	Average	V	-	-	-74.44	20.25	-9.54	43.26	53.98	-10.72
*	22400.00	Peak	V	-	-	-66.30	20.25	-9.54	51.40	73.98	-22.58
ĺ	28000.00	Peak	V	-	-	-53.48	6.42	-9.54	50.40	68.20	-17.80

Table 7-117. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

61

RU Index:

1 & 3 Meters

Distance of Measurements: Operating Frequency:

5720MHz

Channel:

144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	173	9	-80.55	17.03	0.00	43.48	53.98	-10.50
*	11440.00	Peak	V	173	9	-68.92	17.03	0.00	55.11	73.98	-18.87
	17160.00	Peak	V	-	-	-68.26	23.47	0.00	62.21	68.20	-5.99
*	22880.00	Average	V	-	-	-73.30	19.64	-9.54	43.80	53.98	-10.18
*	22880.00	Peak	V	-	-	-65.03	19.64	-9.54	52.07	73.98	-21.91
	28600.00	Peak	V	-	-	-53.42	5.12	-9.54	49.15	68.20	-19.05

Table 7-118. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5745MHz

Channel:

149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	108	359	-73.26	16.80	0.00	50.54	53.98	-3.44
*	11490.00	Peak	V	108	359	-69.58	16.80	0.00	54.22	73.98	-19.76
ĺ	17235.00	Peak	V	-	-	-69.57	24.70	0.00	62.13	68.20	-6.07
*	22980.00	Average	V	-	-	-75.19	19.39	-9.54	41.66	53.98	-12.32
*	22980.00	Peak	V	-	-	-65.32	19.39	-9.54	51.53	73.98	-22.45
	28725.00	Peak	V	-	-	-52.20	6.24	-9.54	51.50	68.20	-16.70

Table 7-119. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5785MHz

Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	234	176	-73.58	16.48	0.00	49.90	53.98	-4.08
*	11570.00	Peak	V	234	176	-69.85	16.48	0.00	53.63	73.98	-20.35
	17355.00	Peak	V	-	•	-70.84	25.37	0.00	61.53	68.20	-6.67
	23140.00	Peak	٧	-	ı	-65.62	19.78	-9.54	51.61	68.20	-16.59
	28925.00	Peak	V	-	-	-54.50	5.18	-9.54	48.14	68.20	-20.06

Table 7-120. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5825MHz

Channel:

165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	-	i	-74.11	16.99	0.00	49.88	53.98	-4.09
*	11650.00	Peak	V	-	ı	-69.93	16.99	0.00	54.06	73.98	-19.91
	17475.00	Peak	V	-	-	-70.68	25.73	0.00	62.05	68.20	-6.15
	23300.00	Peak	V	-	ı	-64.88	20.06	-9.54	52.64	68.20	-15.56
	29125.00	Peak	V	-	-	-52.75	4.94	-9.54	49.65	68.20	-18.55

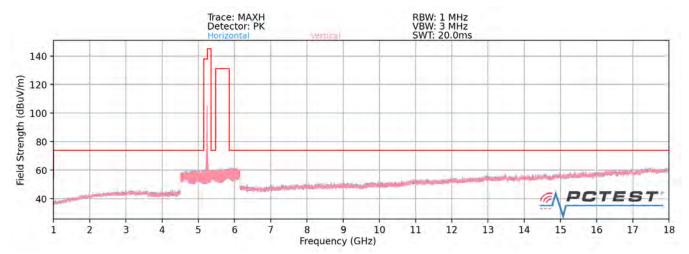
Table 7-121. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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O ASSO DOTEOT		•		110000010110010

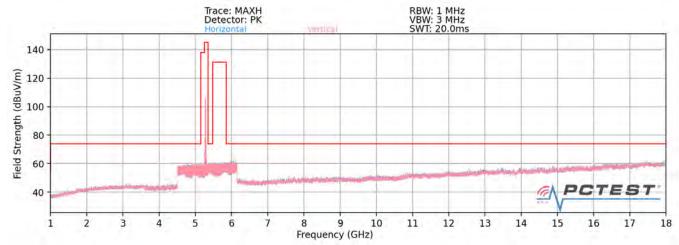


7.6.3 MIMO Radiated Spurious Emission Measurements

242 Tones



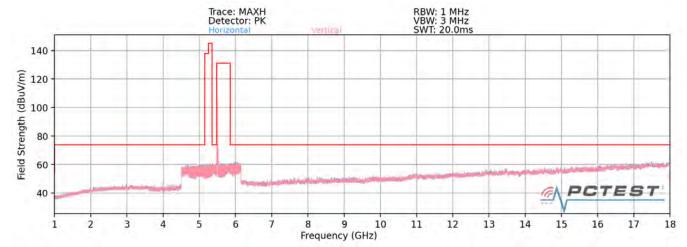
Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U1 Ch. 40 - 242 Tones)



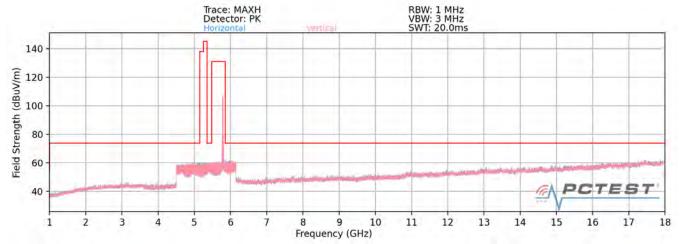
Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U2A Ch. 56 - 242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones)

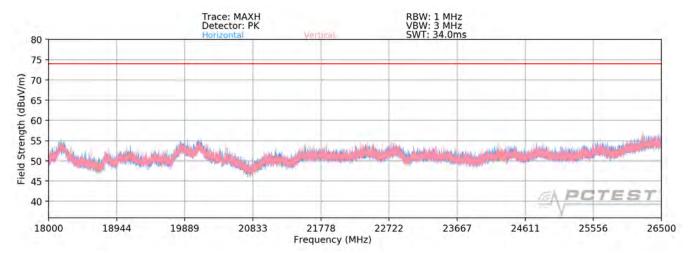


Plot 7-352. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U3 Ch. 157 - 242 Tones)

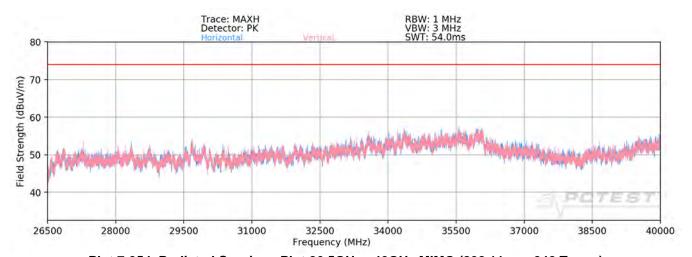
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-353. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax - 242 Tones)



Plot 7-354. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MIMO Radiated Spurious Emission Measurements (242 Tones)

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5180MHz

Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	325	332	-68.63	14.45	0.00	52.82	68.20	-15.38
*	15540.00	Average	V	-	-	-81.47	21.74	0.00	47.27	53.98	-6.71
*	15540.00	Peak	V	-	-	-69.53	21.74	0.00	59.21	73.98	-14.77
*	20720.00	Average	V	-	-	-75.42	17.88	-9.54	39.92	53.98	-14.06
*	20720.00	Peak	V	-	-	-66.09	17.88	-9.54	49.25	73.98	-24.73
	25900.00	Peak	V	=	-	-64.99	20.40	-9.54	52.87	68.20	-15.33

Table 7-122. Radiated Measurements MIMO (242 Tones)

802.11ax (20MHz BW) Worst Case Mode:

Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5200MHz

Channel:

40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	317	324	-69.44	14.60	0.00	52.16	68.20	-16.04
*	15600.00	Average	V	-	-	-81.23	21.90	0.00	47.67	53.98	-6.31
*	15600.00	Peak	V	-	-	-69.88	21.90	0.00	59.02	73.98	-14.96
*	20800.00	Average	V	-	-	-76.13	18.08	-9.54	39.41	53.98	-14.57
*	20800.00	Peak	V	-	-	-66.01	18.08	-9.54	49.53	73.98	-24.45
	26000.00	Peak	V	-		-64.02	20.68	-9.54	54.11	68.20	-14.09

Table 7-123. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5240MHz

Channel:

48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	320	341	-68.77	14.57	0.00	52.80	68.20	-15.40
*	15720.00	Average	V	-	-	-81.28	22.17	0.00	47.89	53.98	-6.09
*	15720.00	Peak	V	-	-	-69.59	22.17	0.00	59.58	73.98	-14.40
*	20960.00	Average	V	-	-	-75.57	18.46	-9.54	40.35	53.98	-13.63
*	20960.00	Peak	V	-	-	-64.54	18.46	-9.54	51.38	73.98	-22.60
	26200.00	Peak	V	-	-	-63.18	20.96	-9.54	55.24	68.20	-12.96

Table 7-124. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5260MHz

Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	256	7	-69.61	15.10	0.00	52.49	68.20	-15.71
*	15780.00	Average	V	-	-	-81.41	21.87	0.00	47.46	53.98	-6.52
*	15780.00	Peak	V	-	-	-69.77	21.87	0.00	59.10	73.98	-14.88
*	21040.00	Average	V	-	-	-74.34	18.64	-9.54	41.75	53.98	-12.23
*	21040.00	Peak	V	-	-	-65.38	18.64	-9.54	50.71	73.98	-23.27
	26300.00	Peak	V	-	-	-63.09	21.23	-9.54	55.60	68.20	-12.60

Table 7-125. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

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RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5280MHz

Channel:

56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	291	347	-69.36	14.95	0.00	52.59	68.20	-15.61
*	15840.00	Average	V	-	-	-81.46	22.33	0.00	47.87	53.98	-6.11
*	15840.00	Peak	V	-	-	-70.06	22.33	0.00	59.27	73.98	-14.71
*	21120.00	Average	V	-	-	-74.48	18.80	-9.54	41.78	53.98	-12.20
*	21120.00	Peak	V	-	-	-64.04	18.80	-9.54	52.22	73.98	-21.76
	26400.00	Peak	V	-	-	-62.70	21.49	-9.54	56.24	68.20	-11.96

Table 7-126. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	348	84	-81.13	15.37	0.00	41.24	53.98	-12.74
*	10640.00	Peak	V	348	84	-69.29	15.37	0.00	53.08	73.98	-20.90
*	15960.00	Average	V	-	-	-81.68	22.27	0.00	47.59	53.98	-6.39
*	15960.00	Peak	V	-	-	-69.79	22.27	0.00	59.48	73.98	-14.50
*	21280.00	Average	V	-	-	-74.89	18.76	-9.54	41.33	53.98	-12.65
*	21280.00	Peak	V	-	-	-66.28	18.76	-9.54	49.94	73.98	-24.04
	26600.00	Peak	V	-	-	-65.26	6.35	-9.54	38.54	68.20	-29.66

Table 7-127. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5500MHz

Channel:

100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	119	8	-80.29	16.28	0.00	42.99	53.98	-10.99
*	11000.00	Peak	V	119	8	-68.61	16.28	0.00	54.67	73.98	-19.31
	16500.00	Peak	V	-	-	-70.17	23.88	0.00	60.71	68.20	-7.49
	22000.00	Peak	V	-	•	-64.38	19.37	-9.54	52.45	68.20	-15.75
	27500.00	Peak	V	-	-	-53.88	5.07	-9.54	48.65	68.20	-19.55

Table 7-128. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 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	V	206	346	-80.00	16.05	0.00	43.05	53.98	-10.93
*	11200.00	Peak	V	206	346	-68.18	16.05	0.00	54.87	73.98	-19.11
	16800.00	Peak	V	-	-	-70.16	24.05	0.00	60.89	68.20	-7.31
*	22400.00	Average	V	-	-	-74.54	20.25	-9.54	43.16	53.98	-10.82
*	22400.00	Peak	V	-	-	-63.53	20.25	-9.54	54.17	73.98	-19.81
	28000.00	Peak	V	-	-	-54.01	6.42	-9.54	49.87	68.20	-18.33

Table 7-129. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

...

RU Index:

61

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	V	208	356	-80.71	17.03	0.00	43.32	53.98	-10.66
*	11440.00	Peak	V	208	356	-68.92	17.03	0.00	55.11	73.98	-18.87
	17160.00	Peak	V	-	-	-70.26	23.47	0.00	60.21	68.20	-7.99
*	22880.00	Average	V	-	-	-73.60	19.64	-9.54	43.50	53.98	-10.48
*	22880.00	Peak	V	-	-	-64.53	19.64	-9.54	52.57	73.98	-21.41
	28600.00	Peak	V	-		-54.69	5.12	-9.54	47.88	68.20	-20.32

Table 7-130. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	178	1	-80.72	16.80	0.00	43.08	53.98	-10.90
*	11490.00	Peak	V	178	1	-69.41	16.80	0.00	54.39	73.98	-19.59
	17235.00	Peak	V	-	-	-70.20	24.70	0.00	61.50	68.20	-6.70
*	22980.00	Average	V	-	-	-75.39	19.39	-9.54	41.46	53.98	-12.52
*	22980.00	Peak	V	-	-	-65.89	19.39	-9.54	50.96	73.98	-23.02
ĺ	28725.00	Peak	V	-	-	-53.99	6.24	-9.54	49.71	68.20	-18.49

Table 7-131. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 268 of 292
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Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

IVICC

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5785MHz

Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	189	357	-80.38	16.48	0.00	43.10	53.98	-10.88
*	11570.00	Peak	V	189	357	-69.31	16.48	0.00	54.17	73.98	-19.81
	17355.00	Peak	V	-	-	-70.29	25.37	0.00	62.08	68.20	-6.12
	23140.00	Peak	V	-	-	-63.42	19.78	-9.54	53.81	68.20	-14.39
	28925.00	Peak	V	-	=	-54.10	5.18	-9.54	48.54	68.20	-19.66

Table 7-132. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	392	355	-80.79	16.99	0.00	43.20	53.98	-10.77
*	11650.00	Peak	V	392	355	-68.22	16.99	0.00	55.77	73.98	-18.20
	17475.00	Peak	V	-	i	-70.49	25.73	0.00	62.24	68.20	-5.96
	23300.00	Peak	V	-	-	-64.14	20.06	-9.54	53.38	68.20	-14.82
	29125.00	Peak	V	-	-	-51.53	4.94	-9.54	50.87	68.20	-17.33

Table 7-133. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 200 of 202
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@ 2020 DCTECT				V 0 0 00/04/2040

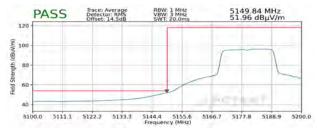


7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

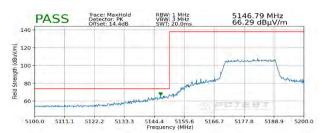
242 Tones

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

802.11ax
MCS0
61
3 Meters
5180MHz
36

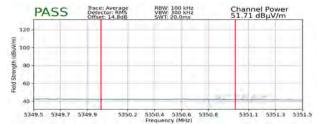


Plot 7-355. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

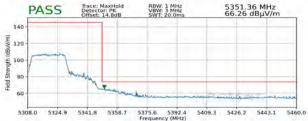


Plot 7-356. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-357. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)



Plot 7-358. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 270 of 202
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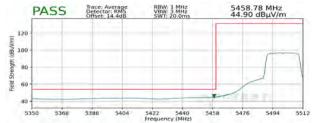
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

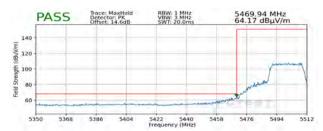
Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
61	
3 Meters	
5500MHz	
100	



Plot 7-359. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-360. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

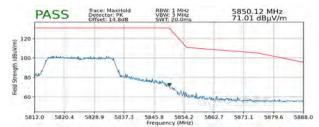
MCS0

61

3 Meters

5825MHz

165



Plot 7-361. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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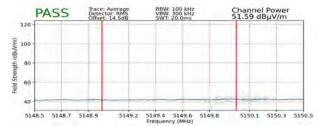
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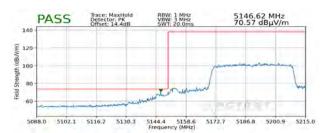
7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5190MHz Channel: 38



Plot 7-362. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

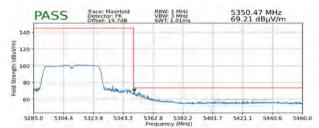


Plot 7-363. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-364. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



Plot 7-365. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 272 of 202
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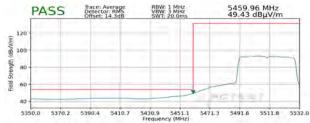
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

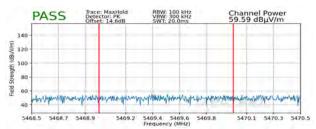
Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
65	
3 Meters	
5510MHz	
102	•



Plot 7-366. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-367. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

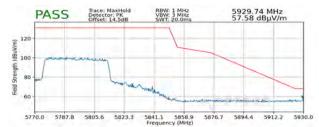
MCS0

65

3 Meters

5795MHz

159



Plot 7-368. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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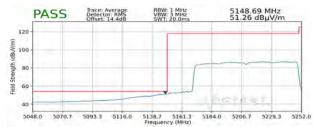


7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

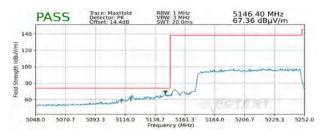
996 Tones

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

802.11ax
MCS0
67
3 Meters
5210MHz
42

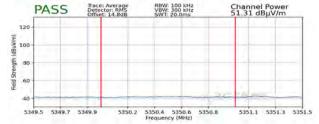


Plot 7-369. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

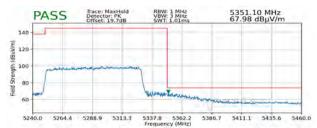


Plot 7-370. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-371. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



Plot 7-372. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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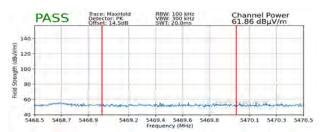
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Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: **RU Index:** 67 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz Channel: 106

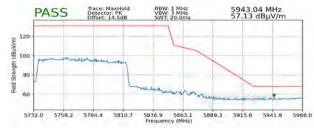
PASS	Prace: Average Detector: RMS Offset: 14.4dB	RBW: 100 kHz VBW: 300 kHz SWT: 20.0ms	Channel Power 51.83 dBµV/m
120			
100-			
80			
60 -			
40			ac inc
5458.5 5458.7	5458.9 5459.2	5459.4 5459.6 5459	.8 5460.1 5460.3

Plot 7-373. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-374. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C - 996 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 67 Distance of Measurements: 3 Meters 5775MHz Operating Frequency: Channel: 155



Plot 7-375. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMN986W	PCTEST*	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]

242 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

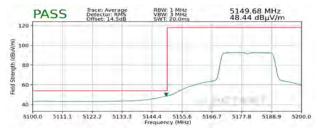
MCS0

61

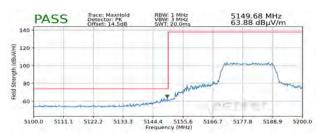
3 Meters

5180MHz

36

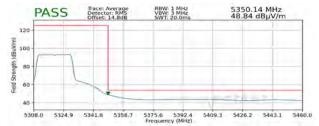


Plot 7-376. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

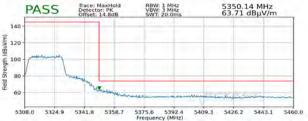


Plot 7-377. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-378. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



Plot 7-379. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: Worst Case Transfer Rate:

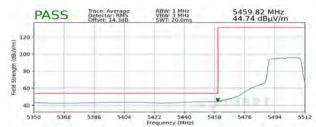
MOISI Case Hallslei Rail

RU Index:

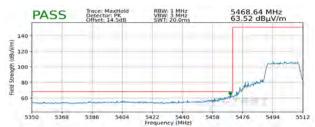
Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
61	
3 Meters	
5500MHz	
100	



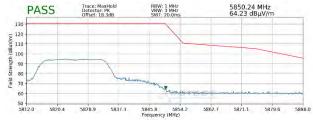
Plot 7-380. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-381. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5825MHz
165



Plot 7-382. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 277 of 202
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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]

484 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

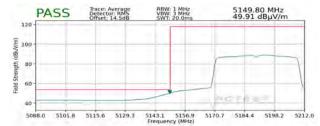
MCS0

65

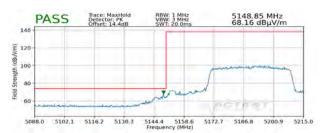
3 Meters

5190MHz

38

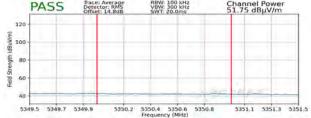


Plot 7-383. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)

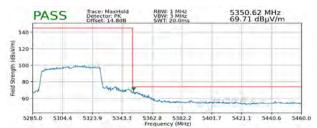


Plot 7-384. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-385. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



Plot 7-386. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMN986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 278 of 292
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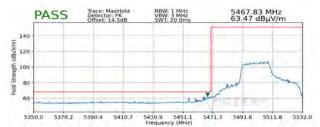
Channel:

Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5510MHz

102



Plot 7-387. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-388. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 2C - 484 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5795MHz Channel: 159



Plot 7-389. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3 - 484 Tones)

FCC ID: A3LSMN986W	PCTEST*	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]

996 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

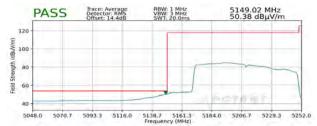
MCS0

67

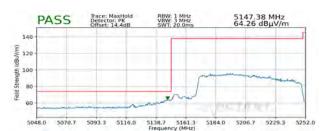
3 Meters

5210MHz

42

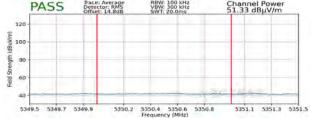


Plot 7-390. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 996 Tones)

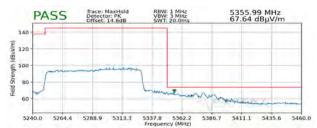


Plot 7-391. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-392. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 996 Tones)



Plot 7-393. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 996 Tones)

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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

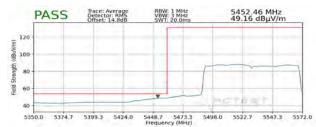
MCS0

67

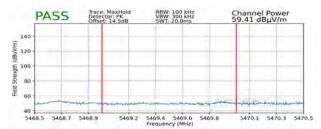
3 Meters

5530MHz

106



Plot 7-394. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 996 Tones)



Plot 7-395. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

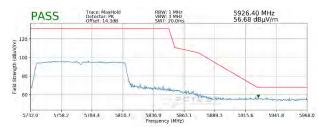
MCS0

67

3 Meters

5775MHz

155



Plot 7-396. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 996 Tones)

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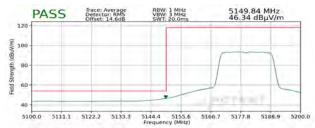


7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

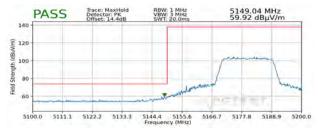
242 Tones

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

802.11ax
MCS0
61
3 Meters
5180MHz
36

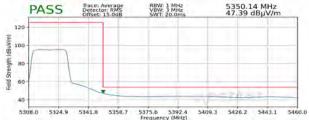


Plot 7-397. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

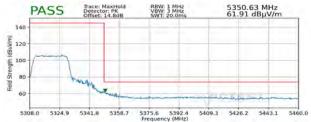


Plot 7-398. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-399. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



Plot 7-400. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

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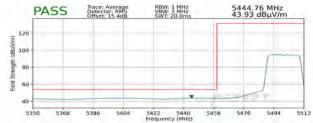
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

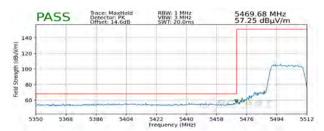
Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
61	
3 Meters	
5500MHz	
100	



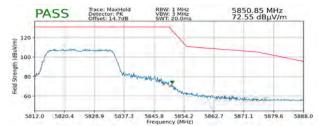
Plot 7-401. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-402. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5825MHz
165



Plot 7-403. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

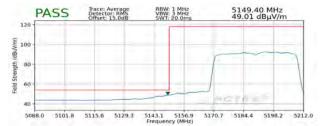
FCC ID: A3LSMN986W	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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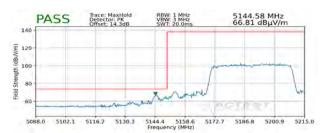
7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5190MHz Channel: 38

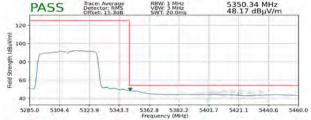


Plot 7-404. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

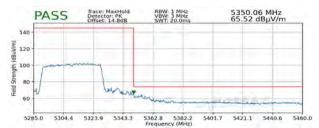


Plot 7-405. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1 - 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-406. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



Plot 7-407. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A - 484 Tones)

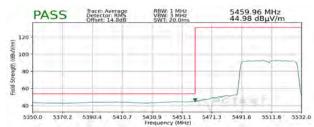
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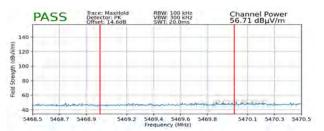


Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5510MHz Channel:

102

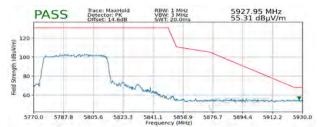


Plot 7-408. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-409. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C - 484 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5795MHz Channel: 159



Plot 7-410. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3 - 484 Tones)

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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]

996 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

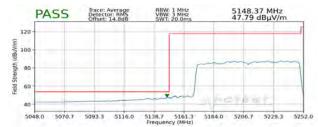
MCS0

67

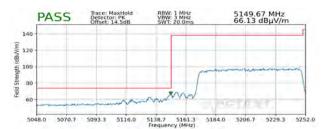
3 Meters

5210MHz

42

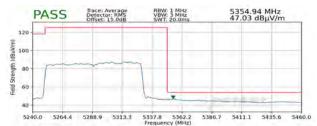


Plot 7-411. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)



Plot 7-412. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-413. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



Plot 7-414. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

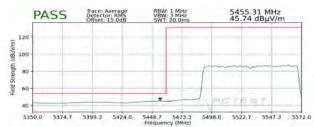
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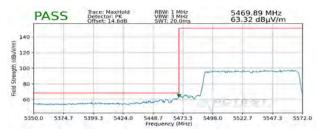
Channel:

Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: RU Index: 67 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz

106

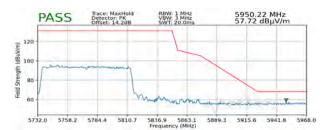


Plot 7-415. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C - 996 Tones)



Plot 7-416. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C - 996 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 67 Distance of Measurements: 3 Meters 5775MHz Operating Frequency: Channel: 155



Plot 7-417. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3 - 996 Tones)

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7.7 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 7-134 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 7-134. 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
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold

assembly of contents thereof, please contact INFO@PCTEST.COM

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.

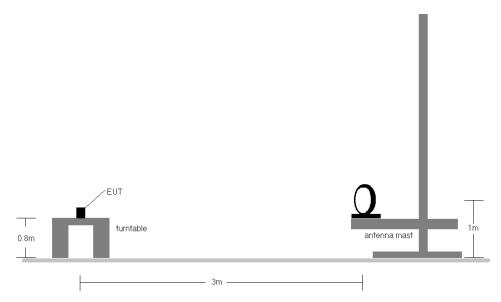


Figure 7-6. Radiated Test Setup < 30MHz

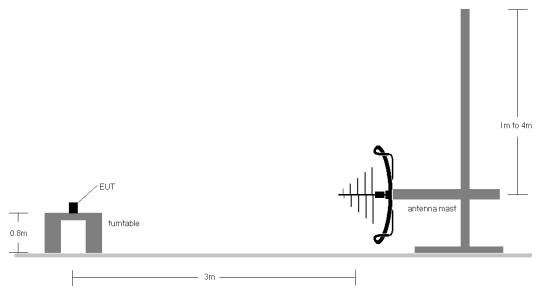


Figure 7-7. Radiated Test Setup < 1GHz

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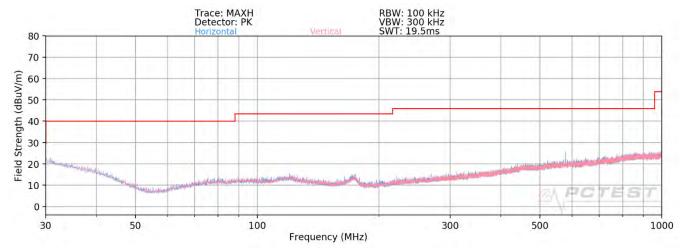
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-134.
- 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.
- 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.

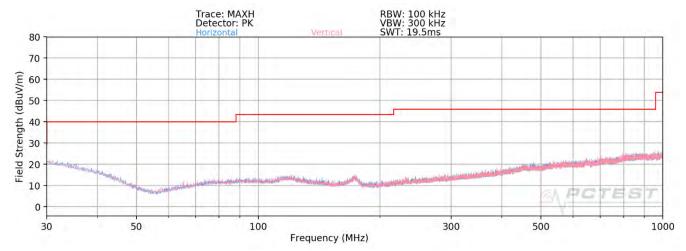
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MIMO Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-418. Radiated Spurious Plot below 1GHz MIMO (802.11ax - 26 Tones - U3 Ch. 157)



Plot 7-419. Radiated Spurious Plot below 1GHz MIMO (802.11ax - 242 Tones - U3 Ch. 157)

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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: A3LSMN986W is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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