



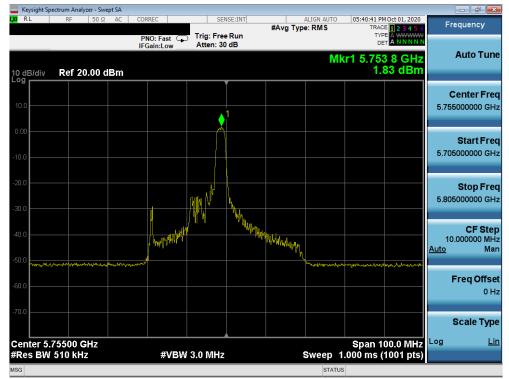
Plot 7-293. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)



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

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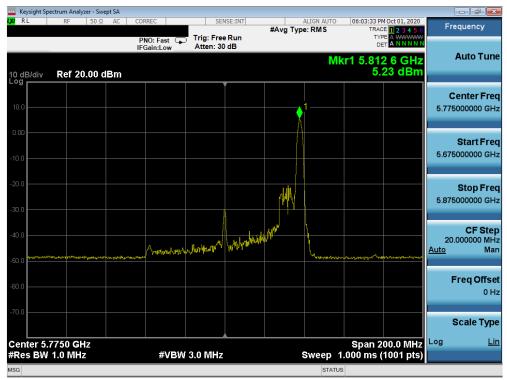
Plot 7-295. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)



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

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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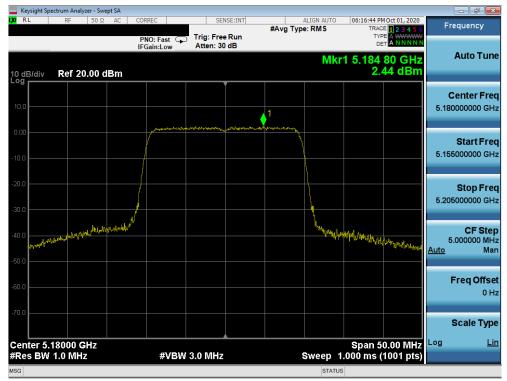




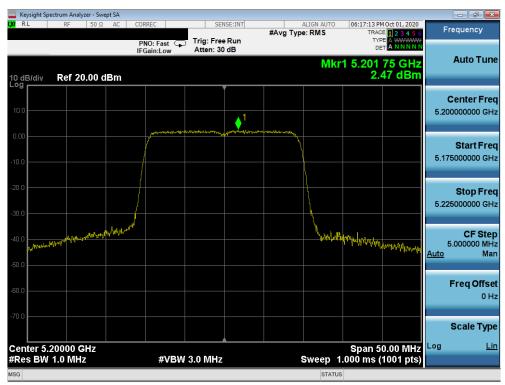
Plot 7-297. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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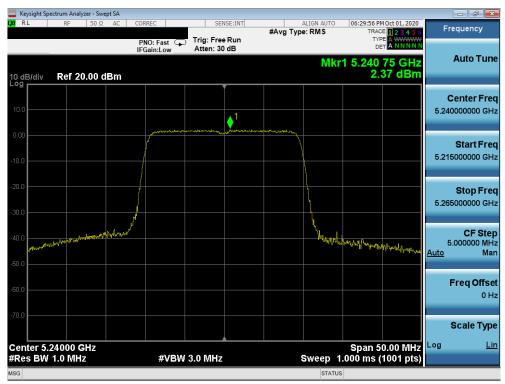
Plot 7-298. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



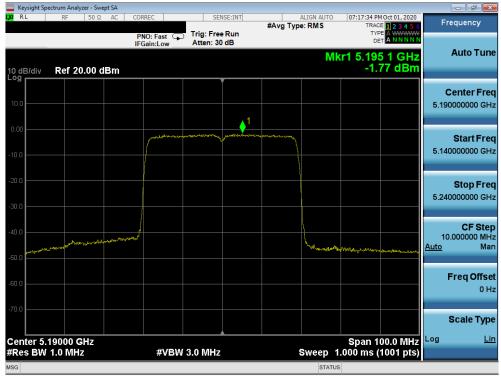
Plot 7-299. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Quality Manager
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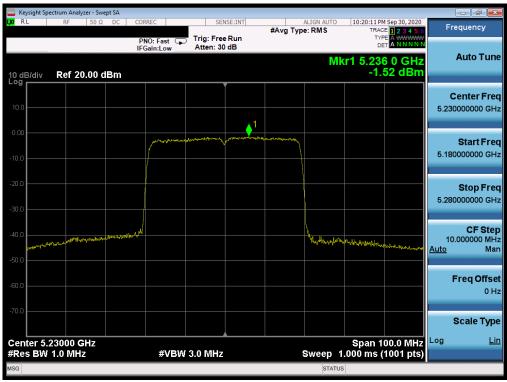
Plot 7-300. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



Plot 7-301. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

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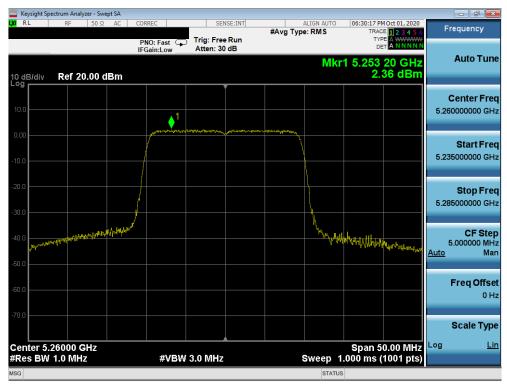
Plot 7-302. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



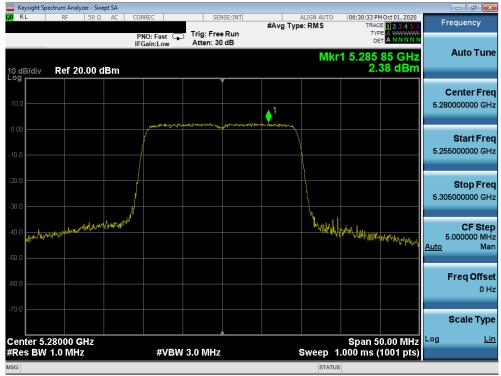
Plot 7-303. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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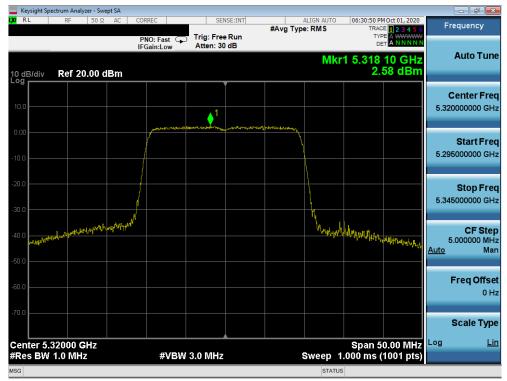
Plot 7-304. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



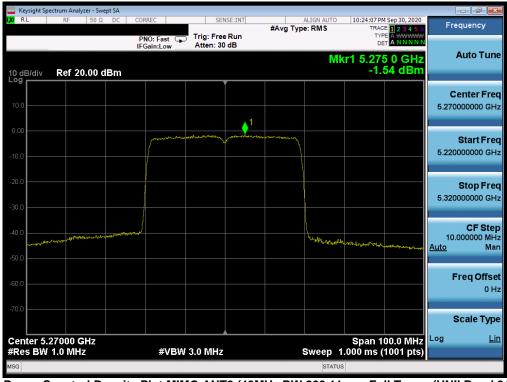
Plot 7-305. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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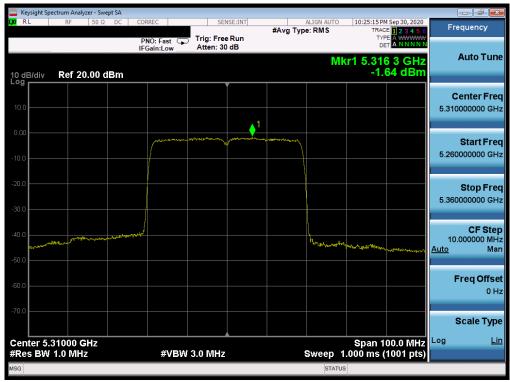
Plot 7-306. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



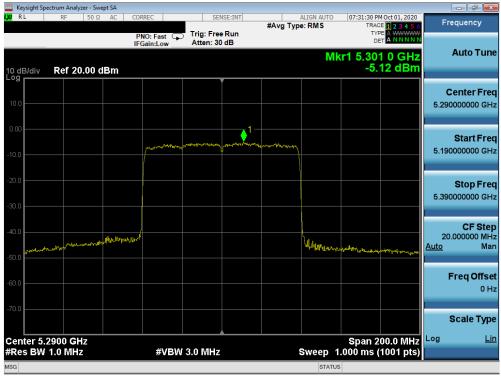
Plot 7-307. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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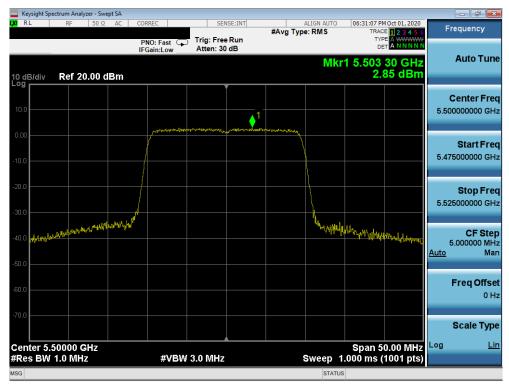
Plot 7-308. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



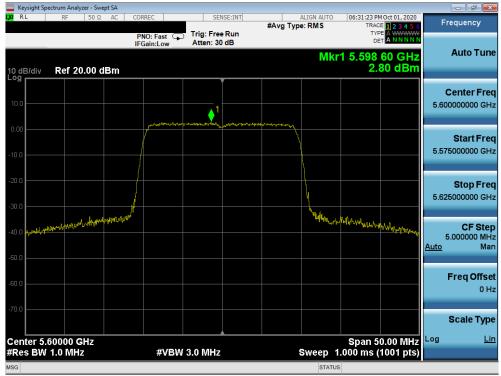
Plot 7-309. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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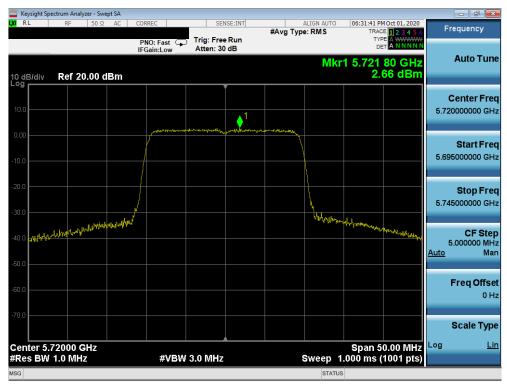
Plot 7-310. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



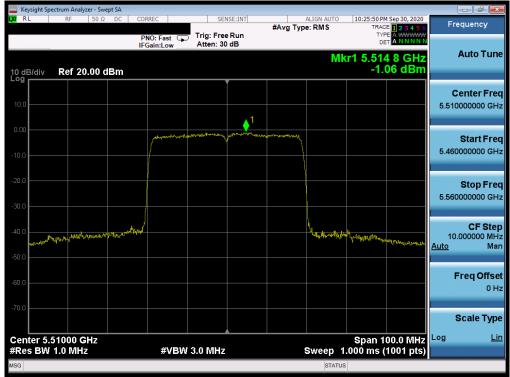
Plot 7-311. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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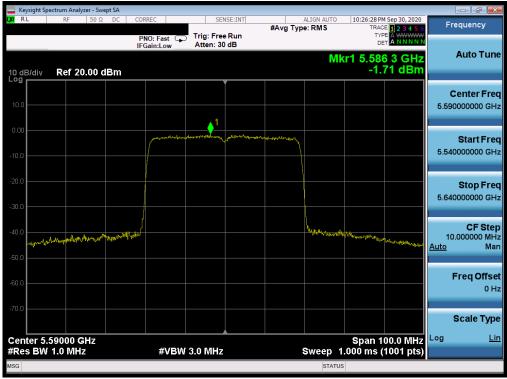
Plot 7-312. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



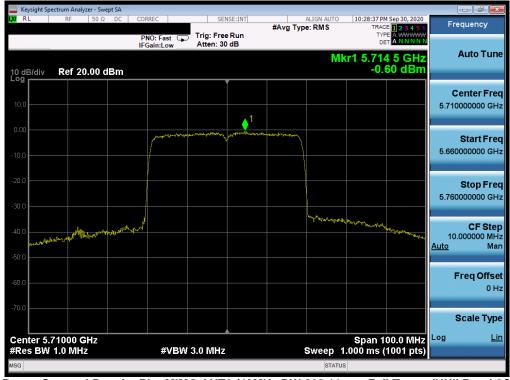
Plot 7-313. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-314. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



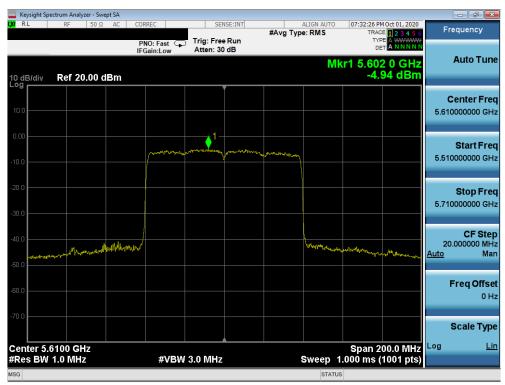
Plot 7-315. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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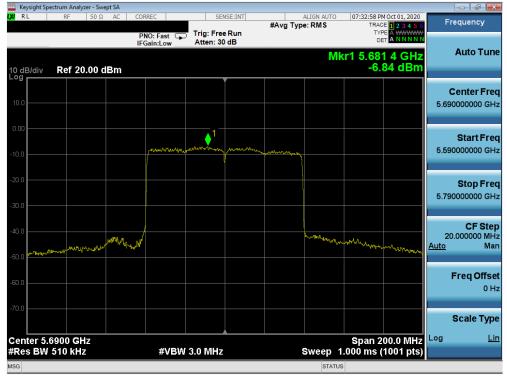
Plot 7-316. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



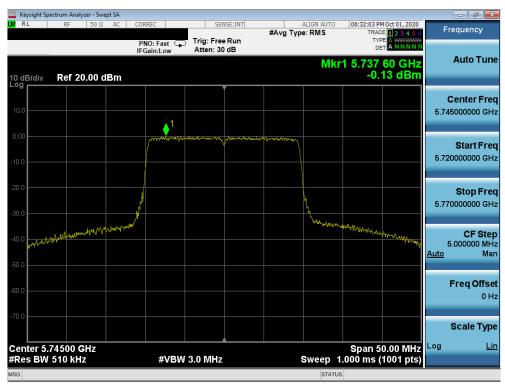
Plot 7-317. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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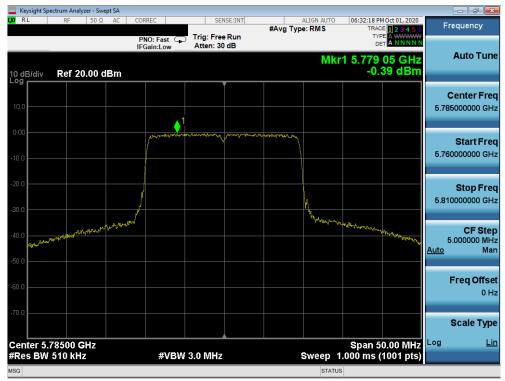
Plot 7-318. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)



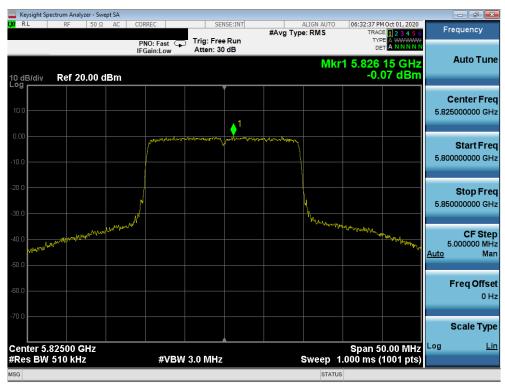
Plot 7-319. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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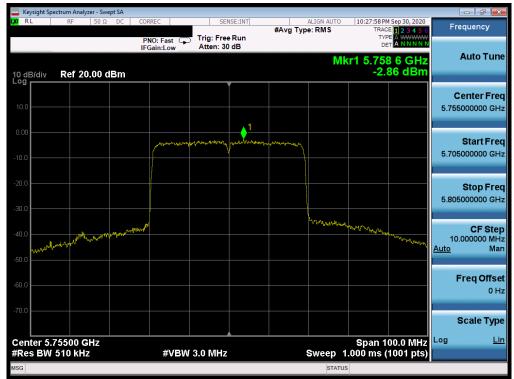
Plot 7-320. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)



Plot 7-321. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)

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



Plot 7-323. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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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 7-67 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-67. 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.

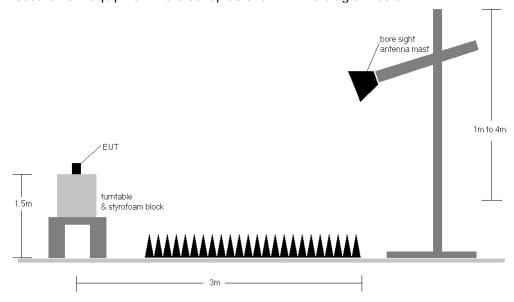


Figure 7-5. Test Instrument & Measurement Setup

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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 7-67.
- 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 7-67. 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:

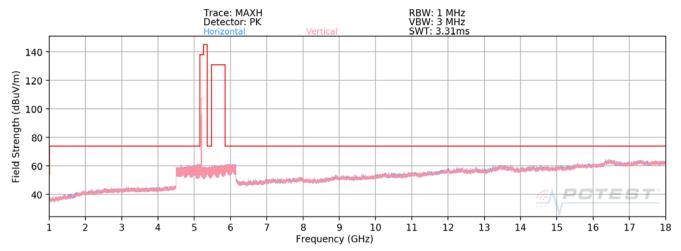
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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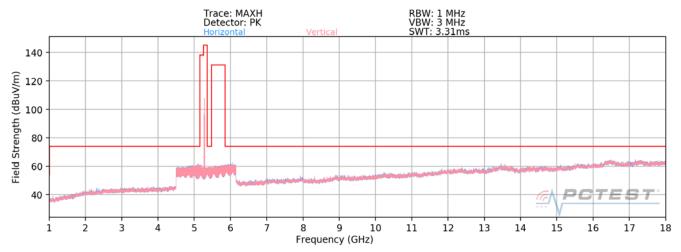


7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

26 Tones



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

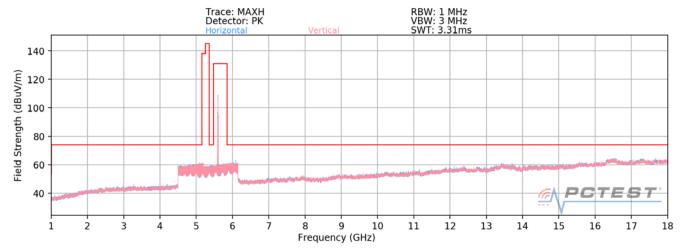


Plot 7-326. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U2A Ch. 56 - 26 Tones)

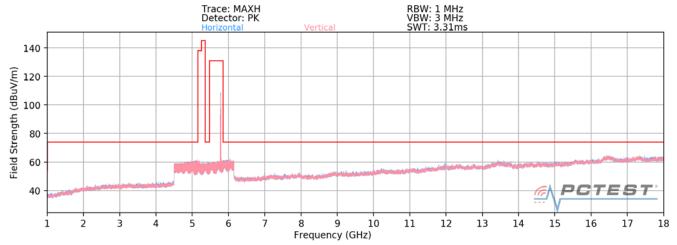
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Plot 7-327. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)

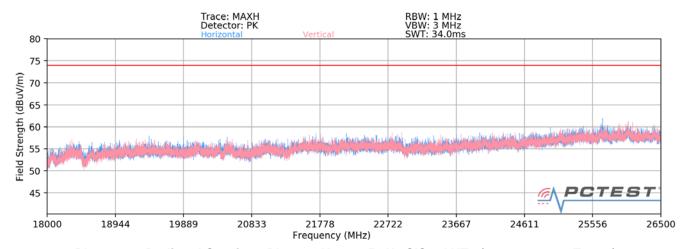


Plot 7-328. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 26 Tones)

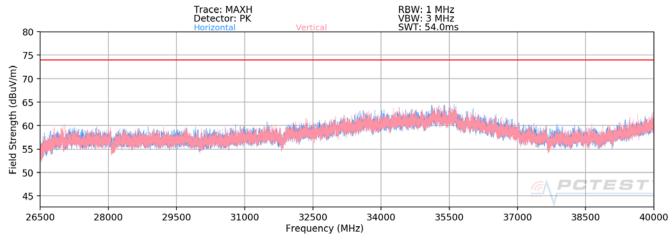
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



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)

FCC ID: A3LSMG996U	Proud to be part of (8) element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 229 of 307
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	Н	-	-	-69.52	15.24	52.72	68.20	-15.48
15540.00	Average	Н	-	-	-81.43	21.48	47.05	53.98	-6.93
15540.00	Peak	Н	-	-	-69.76	21.48	58.72	73.98	-15.26
20720.00	Average	Н	-	-	-63.99	1.63	35.10	53.98	-18.88
20720.00	Peak	Н	-	-	-51.65	1.63	47.44	73.98	-26.54
25900.00	Peak	Н	-	-	-51.52	4.37	50.31	68.20	-17.89

Table 7-68. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	Н	-	-	-68.70	15.26	53.56	68.20	-14.64
15600.00	Average	Н	-	-	-81.12	21.95	47.83	53.98	-6.14
15600.00	Peak	Н	-	-	-69.65	21.95	59.30	73.98	-14.67
20800.00	Average	Н	-	-	-64.03	1.54	34.97	53.98	-19.01
20800.00	Peak	Н	-	-	-52.49	1.54	46.51	73.98	-27.47
26000.00	Peak	Н	-	-	-50.71	4.18	50.92	68.20	-17.28

Table 7-69. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 230 of 307
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Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	Н	-	-	-69.10	15.18	53.08	68.20	-15.12
15720.00	Average	Н	-	-	-81.32	21.96	47.64	53.98	-6.34
15720.00	Peak	Н	-	-	-69.75	21.96	59.21	73.98	-14.77
20960.00	Average	Н	-	-	-63.53	1.82	35.74	53.98	-18.23
20960.00	Peak	Н	-	-	-52.40	1.82	46.87	73.98	-27.10
26200.00	Peak	Н	-	-	-50.86	4.39	50.99	68.20	-17.21

Table 7-70. 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: 5260MHz

Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	Н	-	-	-69.36	15.74	53.38	68.20	-14.82
15780.00	Average	Н	-	-	-81.46	22.25	47.79	53.98	-6.19
15780.00	Peak	Н	-	-	-69.86	22.25	59.39	73.98	-14.59
21040.00	Average	Н	-	-	-63.40	1.91	35.97	53.98	-18.01
21040.00	Peak	Н	-	-	-52.16	1.91	47.21	73.98	-26.77
26300.00	Peak	Н	-	-	-50.74	4.34	51.06	68.20	-17.14

Table 7-71. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 231 of 307
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	Н	-	-	-69.24	15.84	53.60	68.20	-14.60
15840.00	Average	Н	-	-	-81.49	22.69	48.20	53.98	-5.78
15840.00	Peak	Н	-	-	-69.95	22.69	59.74	73.98	-14.24
21120.00	Average	Н	-	-	-63.97	2.10	35.59	53.98	-18.39
21120.00	Peak	Н	-	-	-52.32	2.10	47.24	73.98	-26.74
26400.00	Peak	Н	-	-	-51.05	4.39	50.80	68.20	-17.40

Table 7-72. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	Н	-	-	-81.15	16.29	42.14	53.98	-11.84
10640.00	Peak	Н	-	-	-69.18	16.29	54.11	73.98	-19.87
15960.00	Average	Н	-	-	-81.69	22.69	48.00	53.98	-5.98
15960.00	Peak	Н	-	-	-70.55	22.69	59.14	73.98	-14.84
21280.00	Average	Н	-	-	-63.87	2.09	35.68	53.98	-18.30
21280.00	Peak	Н	-	-	-51.85	2.09	47.70	73.98	-26.28
26600.00	Peak	Н	-	-	-52.03	4.43	49.86	68.20	-18.34

Table 7-73. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5500MHz

Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	Н	-	-	-80.52	16.43	42.91	53.98	-11.07
11000.00	Peak	Н	-	-	-68.80	16.43	54.63	73.98	-19.35
16500.00	Peak	Н	-	-	-69.99	23.48	60.49	68.20	-7.71
22000.00	Peak	Н	-	-	-51.74	2.04	47.75	68.20	-20.45
27500.00	Peak	Н	-	-	-51.11	3.49	49.84	68.20	-18.36

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: 5600MHz

Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	Н	-	-	-80.60	16.18	42.58	53.98	-11.39
11200.00	Peak	Н	-	-	-68.74	16.18	54.44	73.98	-19.53
16800.00	Peak	Н	-	-	-70.05	24.07	61.02	68.20	-7.18
22400.00	Average	Н	-	-	-63.48	2.44	36.42	53.98	-17.56
22400.00	Peak	Н	-	-	-52.13	2.44	47.77	73.98	-26.21
28000.00	Peak	Н	-	-	-50.50	3.61	50.57	68.20	-17.63

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

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

54

RU Index:
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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	Н	-	-	-81.46	17.06	42.60	53.98	-11.38
11440.00	Peak	Н	-	-	-69.51	17.06	54.55	73.98	-19.43
17160.00	Peak	Н	-	-	-70.08	23.48	60.40	68.20	-7.80
22880.00	Average	Н	-	-	-63.25	2.26	36.47	53.98	-17.51
22880.00	Peak	Н	-	-	-51.84	2.26	47.88	73.98	-26.10
28600.00	Peak	Н	-		-51.22	3.87	50.11	68.20	-18.09

Table 7-76. 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: 5745MHz

Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	Н	-	-	-81.42	17.64	43.22	53.98	-10.76
11490.00	Peak	Н	-	-	-69.86	17.64	54.78	73.98	-19.20
17235.00	Peak	Н	-	-	-69.64	24.38	61.74	68.20	-6.46
22980.00	Average	Н	-	-	-63.28	2.17	36.35	53.98	-17.63
22980.00	Peak	Н	-	-	-51.72	2.17	47.91	73.98	-26.07
28725.00	Peak	Н	-	-	-50.47	3.73	50.72	68.20	-17.48

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5785MHz

Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	Н	-	-	-81.03	16.94	42.91	53.98	-11.07
11570.00	Peak	Н	-	-	-69.25	16.94	54.69	73.98	-19.29
17355.00	Peak	Н	-	-	-70.32	24.85	61.53	68.20	-6.67
23140.00	Peak	Н	-	-	-51.19	2.10	48.36	68.20	-19.84
28925.00	Peak	Н	-	-	-52.11	3.60	48.95	68.20	-19.25

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: 5825MHz

Channel: 165

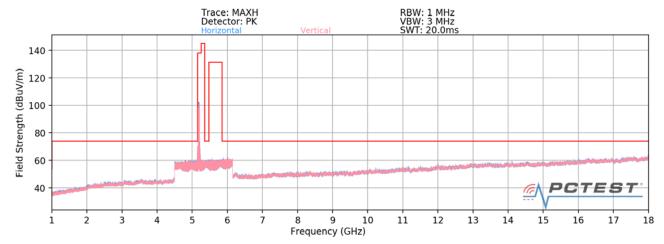
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	Н	-	-	-81.26	17.47	43.21	53.98	-10.77
11650.00	Peak	Н	-	-	-69.33	17.47	55.14	73.98	-18.84
17475.00	Peak	Н	-	-	-69.95	25.03	62.08	68.20	-6.12
23300.00	Peak	Н	-	-	-52.04	2.14	47.56	68.20	-20.64
29125.00	Peak	Н	-	•	-51.22	3.76	49.99	68.20	-18.21

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

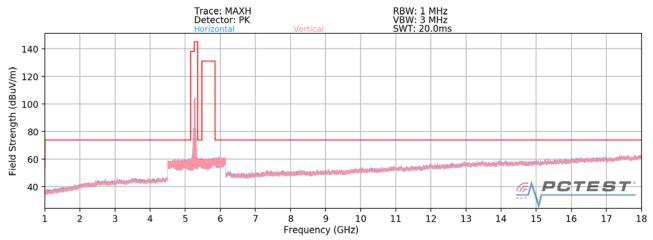
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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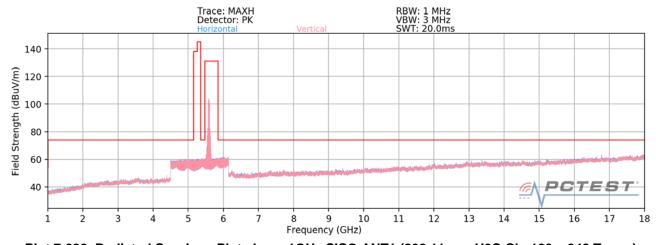
242 Tones



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



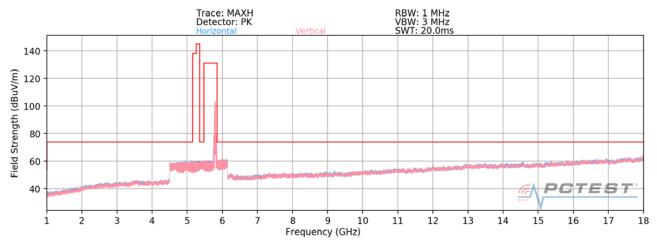
Plot 7-332. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)



Plot 7-333. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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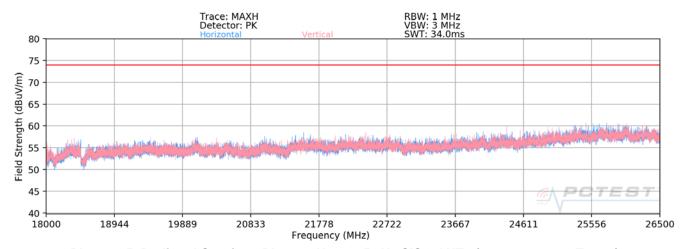


Plot 7-334. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

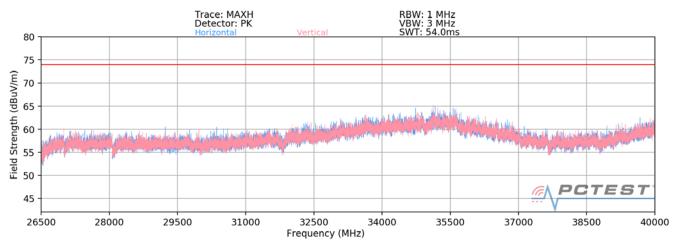
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Domo 227 of 207
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



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: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 238 of 307
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	Н	-	-	-68.84	15.24	53.40	68.20	-14.80
15540.00	Average	Н	-	-	-81.45	21.48	47.03	53.98	-6.95
15540.00	Peak	Н	-	-	-69.89	21.48	58.59	73.98	-15.39
20720.00	Average	Н	-	-	-64.28	1.63	34.81	53.98	-19.17
20720.00	Peak	Н	-	-	-54.87	1.63	44.22	73.98	-29.76
25900.00	Peak	Н	-	-	-50.55	4.37	51.28	68.20	-16.92

Table 7-80. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	Н	-	-	-69.32	15.26	52.94	68.20	-15.26
15600.00	Average	Н	-	-	-81.25	21.95	47.70	53.98	-6.27
15600.00	Peak	Н	-	-	-69.75	21.95	59.20	73.98	-14.77
20800.00	Average	Н	-	-	-63.94	1.54	35.06	53.98	-18.92
20800.00	Peak	Н	-	-	-52.56	1.54	46.44	73.98	-27.54
26000.00	Peak	Н	-	-	-50.67	4.18	50.96	68.20	-17.24

Table 7-81. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	Н	-	-	-69.52	15.18	52.66	68.20	-15.54
15720.00	Average	Н	-	-	-81.23	21.96	47.73	53.98	-6.25
15720.00	Peak	Н	-	-	-69.69	21.96	59.27	73.98	-14.71
20960.00	Average	Н	-	-	-63.50	1.82	35.77	53.98	-18.20
20960.00	Peak	Н	-	-	-51.06	1.82	48.21	73.98	-25.76
26200.00	Peak	Н	-	-	-51.27	4.39	50.58	68.20	-17.62

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5260MHz

Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	Н	-	-	-68.96	15.74	53.78	68.20	-14.42
15780.00	Average	Н	-	-	-81.40	22.25	47.85	53.98	-6.13
15780.00	Peak	Н	-	-	-69.65	22.25	59.60	73.98	-14.38
21040.00	Average	Н	-	-	-63.34	1.91	36.03	53.98	-17.95
21040.00	Peak	Н	-	-	-51.88	1.91	47.49	73.98	-26.49
26300.00	Peak	Н	-	-	-49.64	4.34	52.15	68.20	-16.05

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

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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Worst Case Transfer Rate: MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5280MHz

Channel:

56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	Н	-	-	-68.62	15.84	54.22	68.20	-13.98
15840.00	Average	Н	-	-	-81.52	22.69	48.17	53.98	-5.81
15840.00	Peak	Н	-	-	-69.61	22.69	60.08	73.98	-13.90
21120.00	Average	Н	-	-	-63.75	2.11	35.81	53.98	-18.17
21120.00	Peak	Н	-	-	-52.33	2.11	47.23	73.98	-26.75
26400.00	Peak	Н	-	-	-51.28	4.39	50.57	68.20	-17.63

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS₀

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	Н	-	-	-81.21	16.29	42.08	53.98	-11.90
10640.00	Peak	Н	-	-	-69.70	16.29	53.59	73.98	-20.39
15960.00	Average	Н	-	-	-81.68	22.69	48.01	53.98	-5.97
15960.00	Peak	Н	-	-	-70.19	22.69	59.50	73.98	-14.48
21280.00	Average	Н	-	-	-63.95	2.09	35.59	53.98	-18.39
21280.00	Peak	Н	-	-	-52.20	2.09	47.34	73.98	-26.64
26600.00	Peak	Н	-	-	-51.25	4.43	50.64	68.20	-17.56

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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:

5500MHz

Channel:

100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	Н	-	-	-80.46	16.43	42.97	53.98	-11.01
11000.00	Peak	Н	-	-	-68.79	16.43	54.64	73.98	-19.34
16500.00	Peak	Н	-	-	-69.58	23.48	60.90	68.20	-7.30
22000.00	Peak	Н	-	-	-51.68	2.04	47.81	68.20	-20.39
27500.00	Peak	Н	-	-	-51.29	3.49	49.66	68.20	-18.54

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:

5600MHz

Channel:

120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	Н	-	-	-80.61	16.18	42.57	53.98	-11.40
11200.00	Peak	Н	-	-	-68.57	16.18	54.61	73.98	-19.36
16800.00	Peak	Н	-	-	-70.68	24.07	60.39	68.20	-7.81
22400.00	Average	Н	-	-	-63.54	2.44	36.36	53.98	-17.62
22400.00	Peak	Н	-	-	-51.63	2.44	48.27	73.98	-25.71
28000.00	Peak	Н	-	-	-50.99	3.61	50.08	68.20	-18.12

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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:

5720MHz

Channel:

144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	Н	-	-	-81.45	17.06	42.61	53.98	-11.37
11440.00	Peak	Н	-	-	-69.62	17.06	54.44	73.98	-19.54
17160.00	Peak	Н	-	-	-70.16	23.48	60.32	68.20	-7.88
22880.00	Average	Н	-	-	-63.07	2.26	36.65	53.98	-17.33
22880.00	Peak	Н	-	-	-51.46	2.26	48.26	73.98	-25.72
28600.00	Peak	Н	-	-	-51.67	3.87	49.66	68.20	-18.54

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	Н	-	-	-81.35	17.64	43.29	53.98	-10.69
11490.00	Peak	Н	-	-	-69.52	17.64	55.12	73.98	-18.86
17235.00	Peak	Н	-	-	-70.33	24.38	61.05	68.20	-7.15
22980.00	Average	Н	-	-	-63.31	2.17	36.32	53.98	-17.66
22980.00	Peak	Н	-	-	-51.76	2.17	47.87	73.98	-26.11
28725.00	Peak	Н	-	-	-50.37	3.73	50.82	68.20	-17.38

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	Н	198	66	-81.09	16.94	42.85	53.98	-11.13
11570.00	Peak	Н	198	66	-69.47	16.94	54.47	73.98	-19.51
17355.00	Peak	I	-	•	-70.43	24.85	61.42	68.20	-6.78
23140.00	Peak	Н	-	-	-51.89	2.10	47.67	68.20	-20.53
28925.00	Peak	Н	-	-	-51.59	3.60	49.47	68.20	-18.73

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	Н	-	-	-81.25	17.47	43.22	53.98	-10.76
11650.00	Peak	Н	-	-	-69.62	17.47	54.85	73.98	-19.13
17475.00	Peak	Ħ	-	•	-70.10	25.03	61.93	68.20	-6.27
23300.00	Peak	Н	-	-	-51.70	2.14	47.90	68.20	-20.30
29125.00	Peak	Н	-	-	-51.75	3.75	49.46	68.20	-18.74

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

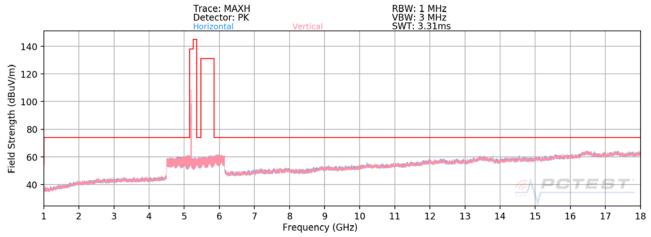
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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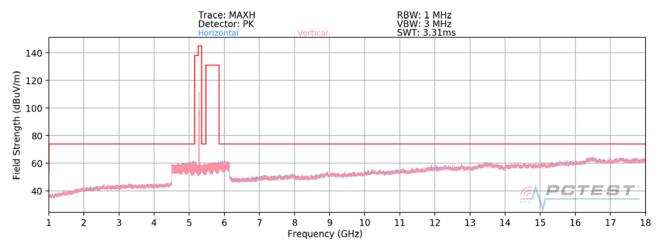


7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

26 Tones



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



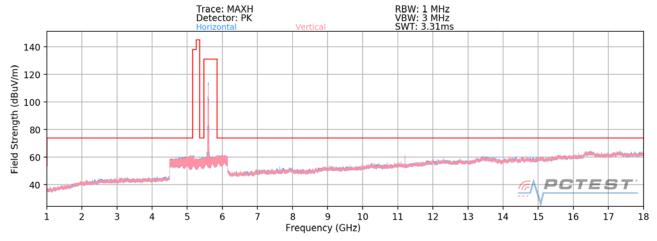
Plot 7-338. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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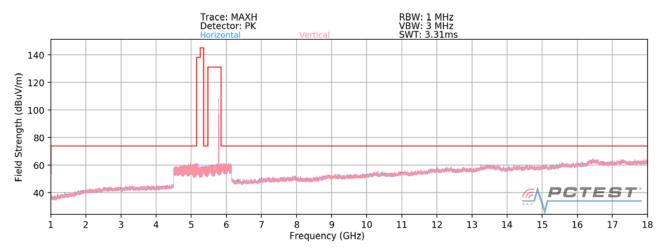
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Plot 7-339. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 26 Tones)

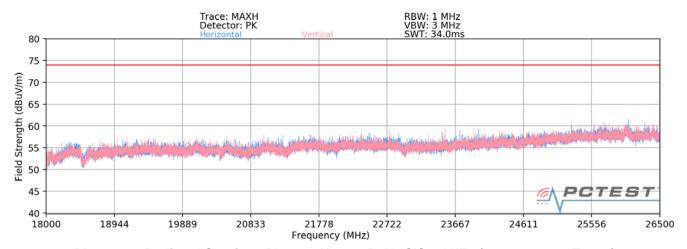


Plot 7-340. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 26 Tones)

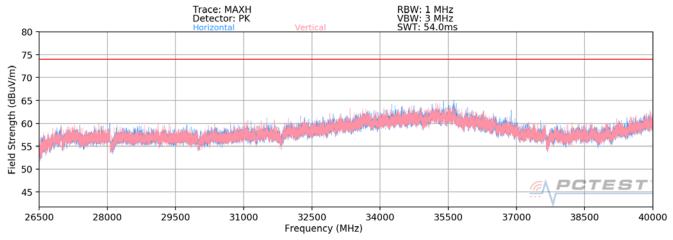
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-341. 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: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11ax (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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	Н	-	-	-72.06	19.25	54.19	68.20	-14.01
15540.00	Average	Н	-	-	-86.01	27.75	48.74	53.98	-5.24
15540.00	Peak	Н	-	-	-74.04	27.75	60.71	73.98	-13.27
20720.00	Average	Н	-	-	-64.05	1.63	35.04	53.98	-18.94
20720.00	Peak	Н	-	-	-52.73	1.63	46.36	73.98	-27.62
25900.00	Peak	Н	-	-	-52.04	4.37	49.79	68.20	-18.41

Table 7-92. 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: 5200MHz

Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	Н	-	-	-72.86	19.77	53.91	68.20	-14.29
15600.00	Average	Н	-	-	-86.01	28.09	49.08	53.98	-4.90
15600.00	Peak	Н	-	-	-73.44	28.09	61.65	73.98	-12.33
20800.00	Average	Н	-	-	-64.01	1.54	34.99	53.98	-18.99
20800.00	Peak	Н	-	-	-52.84	1.54	46.16	73.98	-27.82
26000.00	Peak	Н	-	-	-51.05	4.18	50.58	68.20	-17.62

Table 7-93. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5240MHz

Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	Н	124	270	-72.79	20.09	54.30	68.20	-13.90
15720.00	Average	Н	-	-	-85.60	28.00	49.40	53.98	-4.58
15720.00	Peak	Н	-	-	-73.62	28.00	61.38	73.98	-12.60
20960.00	Average	Н	-	-	-63.56	1.82	35.71	53.98	-18.26
20960.00	Peak	Н	-	-	-52.85	1.82	46.42	73.98	-27.55
26200.00	Peak	Н	-	-	-51.49	4.39	50.36	68.20	-17.84

Table 7-94. 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: 5260MHz

Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	Н	-	-	-72.79	19.96	54.17	68.20	-14.03
15780.00	Average	Н	-	-	-86.01	28.18	49.17	53.98	-4.81
15780.00	Peak	Н	-	-	-72.59	28.18	62.59	73.98	-11.39
21040.00	Average	Н	-	-	-63.32	1.91	36.05	53.98	-17.93
21040.00	Peak	Н	-	-	-52.54	1.91	46.83	73.98	-27.15
26300.00	Peak	Н	-	-	-51.48	4.34	50.32	68.20	-17.88

Table 7-95. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5280MHz

Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	Н	-	-	-72.33	19.69	54.36	68.20	-13.84
15840.00	Average	Н	-	-	-85.70	28.17	49.47	53.98	-4.51
15840.00	Peak	Н	-	-	-73.28	28.17	61.89	73.98	-12.09
21120.00	Average	Н	-	-	-63.93	2.10	35.63	53.98	-18.35
21120.00	Peak	Н	-	-	-52.45	2.10	47.11	73.98	-26.87
26400.00	Peak	Н	-	-	-51.68	4.39	50.17	68.20	-18.03

Table 7-96. 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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	Н	-	-	-84.92	20.14	42.22	53.98	-11.76
10640.00	Peak	Н	-	-	-72.61	20.14	54.53	73.98	-19.45
15960.00	Average	Н	-	-	-86.11	28.13	49.02	53.98	-4.96
15960.00	Peak	Н	-	-	-73.48	28.13	61.65	73.98	-12.33
21280.00	Average	Н	-	-	-63.91	2.09	35.64	53.98	-18.34
21280.00	Peak	Н	-	-	-52.37	2.09	47.18	73.98	-26.80
26600.00	Peak	Н	-	-	-51.62	4.43	50.27	68.20	-17.93

Table 7-97. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	Н	-	-	-84.67	21.01	43.34	53.98	-10.64
11000.00	Peak	Н	-	-	-72.94	21.01	55.07	73.98	-18.91
16500.00	Peak	Н	-	-	-73.17	29.60	63.43	68.20	-4.77
22000.00	Peak	Н	-	-	-51.90	2.04	47.60	68.20	-20.60
27500.00	Peak	Н	-	-	-51.14	3.49	49.81	68.20	-18.39

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

54 RU Index:

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	Н	-	-	-84.98	20.84	42.86	53.98	-11.12
11200.00	Peak	Н	-	-	-71.98	20.84	55.86	73.98	-18.12
16800.00	Peak	Н	-	-	-73.68	29.68	63.00	68.20	-5.20
22400.00	Average	Н	-	-	-63.49	2.45	36.42	53.98	-17.56
22400.00	Peak	Н	-	-	-51.90	2.45	48.01	73.98	-25.97
28000.00	Peak	Н	-	-	-50.71	0.61	47.36	68.20	-20.84

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5720MHz

Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	Н	-	-	-84.99	21.84	43.85	53.98	-10.13
11440.00	Peak	Н	-	-	-72.17	21.84	56.67	73.98	-17.31
17160.00	Peak	Н	-	-	-73.46	29.94	63.48	68.20	-4.72
22880.00	Average	Н	-	-	-63.10	2.26	36.62	53.98	-17.36
22880.00	Peak	Н	-	-	-51.64	2.26	48.08	73.98	-25.90
28600.00	Peak	Н	-	•	-51.80	3.87	49.53	68.20	-18.67

Table 7-100. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	Н	-	-	-84.49	21.73	44.24	53.98	-9.74
11490.00	Peak	Н	-	-	-72.39	21.73	56.34	73.98	-17.64
17235.00	Peak	Н	-	-	-73.71	29.69	62.98	68.20	-5.22
22980.00	Average	Н	-	-	-63.30	2.17	36.33	53.98	-17.65
22980.00	Peak	Н	-	-	-51.59	2.17	48.04	73.98	-25.94
28725.00	Peak	Н	-	-	-51.04	3.73	50.15	68.20	-18.05

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5785MHz

Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	Н	-	-	-85.01	21.80	43.79	53.98	-10.19
11570.00	Peak	Н	-	-	-72.63	21.80	56.17	73.98	-17.81
17355.00	Peak	Н	-	•	-73.59	29.86	63.27	68.20	-4.93
23140.00	Peak	Н	-	-	-50.88	2.10	48.68	68.20	-19.52
28925.00	Peak	Н	-	1	-51.86	3.60	49.20	68.20	-19.00

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: 5825MHz

Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	I	•	•	-85.13	22.35	44.22	53.98	-9.76
11650.00	Peak	H	-	-	-72.49	22.35	56.86	73.98	-17.12
17475.00	Peak	Н	-	-	-73.99	30.35	63.36	68.20	-4.84
23300.00	Peak	Ħ	-	-	-52.25	2.14	47.35	68.20	-20.85
29125.00	Peak	Н	-	-	-50.63	3.75	50.58	68.20	-17.62

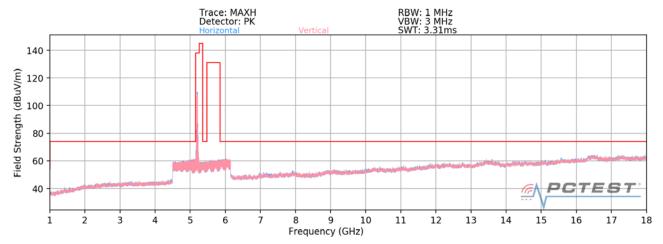
Table 7-103. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 252 of 207
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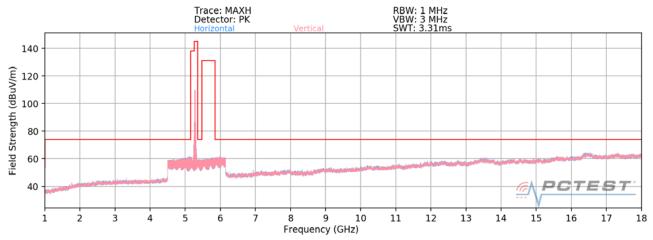
20 PCTEST V 9.0 02/01/2019



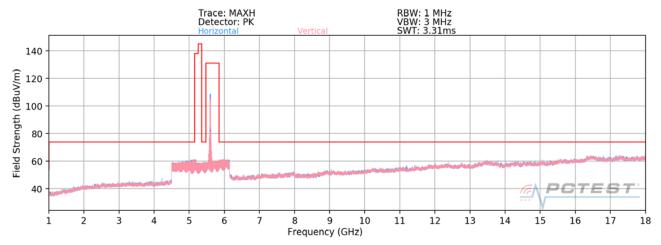
242 Tones



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



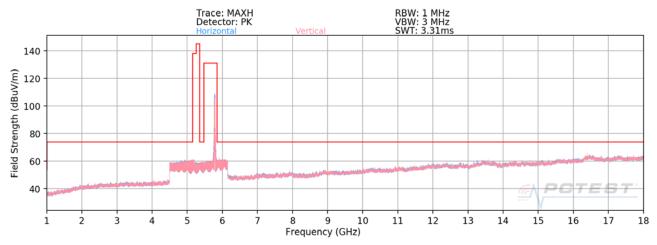
Plot 7-344. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax - U2A Ch. 56 - 242 Tones)



Plot 7-345. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax - U2C Ch. 120 - 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 254 of 207	
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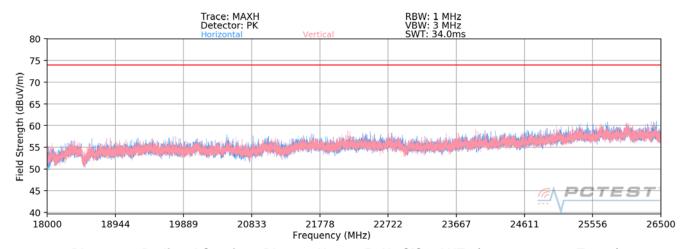


Plot 7-346. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)

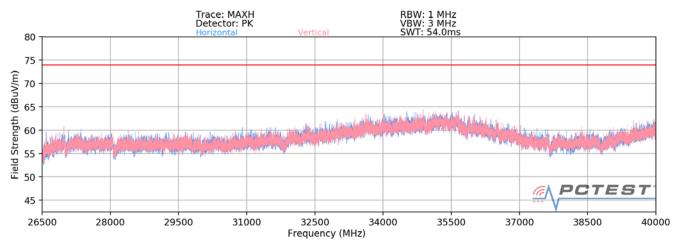
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 255 of 207	
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



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: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11ax (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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	Н	-	-	-71.64	19.25	54.61	68.20	-13.59
15540.00	Average	Н	-	-	-86.01	27.75	48.74	53.98	-5.24
15540.00	Peak	Н	-	-	-73.71	27.75	61.04	73.98	-12.94
20720.00	Average	Н	-	-	-64.05	1.63	35.04	53.98	-18.94
20720.00	Peak	Н	-	-	-51.99	1.63	47.10	73.98	-26.88
25900.00	Peak	Н	-	-	-51.75	4.37	50.08	68.20	-18.12

Table 7-104. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	Н	-	-	-72.70	19.77	54.07	68.20	-14.13
15600.00	Average	Н	-	-	-85.92	28.09	49.17	53.98	-4.81
15600.00	Peak	Н	-	-	-73.53	28.09	61.56	73.98	-12.42
20800.00	Average	Н	-	-	-64.07	1.54	34.93	53.98	-19.05
20800.00	Peak	Н	-	-	-52.20	1.54	46.80	73.98	-27.18
26000.00	Peak	Н	-	•	-50.99	4.18	50.64	68.20	-17.56

Table 7-105. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	Н	-	-	-72.49	20.09	54.60	68.20	-13.60
15720.00	Average	Н	-	-	-85.94	28.00	49.06	53.98	-4.92
15720.00	Peak	Н	-	-	-73.68	28.00	61.32	73.98	-12.66
20960.00	Average	Н	-	-	-63.58	1.82	35.69	53.98	-18.28
20960.00	Peak	Н	-	-	-52.41	1.82	46.86	73.98	-27.11
26200.00	Peak	Н	-	-	-51.50	4.39	50.35	68.20	-17.85

Table 7-106. 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

5260MHz Operating Frequency:

Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	Н	-	-	-72.68	19.96	54.28	68.20	-13.92
15780.00	Average	Н	-	-	-86.01	28.18	49.17	53.98	-4.81
15780.00	Peak	Н	-	-	-72.92	28.18	62.26	73.98	-11.72
21040.00	Average	Н	-	-	-63.52	1.91	35.85	53.98	-18.13
21040.00	Peak	Н	-	-	-51.90	1.91	47.47	73.98	-26.51
26300.00	Peak	Н	-	-	-50.67	4.34	51.13	68.20	-17.07

Table 7-107. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5280MHz

Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	Н	-	-	-72.18	19.69	54.51	68.20	-13.69
15840.00	Average	Н	-	-	-85.76	28.17	49.41	53.98	-4.57
15840.00	Peak	Н	-	-	-72.67	28.17	62.50	73.98	-11.48
21120.00	Average	Н	-	-	-63.93	2.10	35.63	53.98	-18.35
21120.00	Peak	Н	-	-	-51.74	2.10	47.82	73.98	-26.16
26400.00	Peak	Н	-	-	-51.07	4.39	50.78	68.20	-17.42

Table 7-108. 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

5320MHz Operating Frequency:

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	Н	-	-	-84.90	20.14	42.24	53.98	-11.74
10640.00	Peak	Н	-	-	-73.01	20.14	54.13	73.98	-19.85
15960.00	Average	Н	-	-	-86.13	28.13	49.00	53.98	-4.98
15960.00	Peak	Н	-	-	-73.04	28.13	62.09	73.98	-11.89
21280.00	Average	Н	-	-	-64.01	2.09	35.54	53.98	-18.44
21280.00	Peak	Н	-	-	-51.77	2.09	47.78	73.98	-26.20
26600.00	Peak	Н	-	-	-51.53	4.43	50.36	68.20	-17.84

Table 7-109. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 250 of 207
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	Н	-	-	-84.98	21.01	43.03	53.98	-10.95
11000.00	Peak	Н	-	-	-72.20	21.01	55.81	73.98	-18.17
16500.00	Peak	Н	-	-	-73.39	29.60	63.21	68.20	-4.99
22000.00	Peak	Н	-	-	-51.72	2.04	47.78	68.20	-20.42
27500.00	Peak	Н	-	-	-50.41	3.49	50.54	68.20	-17.66

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: 5600MHz

Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	Н	-	-	-85.04	20.84	42.80	53.98	-11.18
11200.00	Peak	Н	-	-	-72.61	20.84	55.23	73.98	-18.75
16800.00	Peak	Н	-	-	-72.42	29.68	64.26	68.20	-3.94
22400.00	Average	Н	-	-	-63.52	2.45	36.39	53.98	-17.59
22400.00	Peak	Н	-	-	-52.34	2.45	47.57	73.98	-26.41
28000.00	Peak	Н	-	-	-50.57	0.61	47.50	68.20	-20.70

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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:

5720MHz

Channel:

144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	Н	-	-	-84.94	21.84	43.90	53.98	-10.08
11440.00	Peak	Н	-	-	-72.11	21.84	56.73	73.98	-17.25
17160.00	Peak	Н	-	-	-73.73	29.94	63.21	68.20	-4.99
22880.00	Average	Н	-	-	-63.12	2.26	36.60	53.98	-17.38
22880.00	Peak	Н	-	-	-51.88	2.26	47.84	73.98	-26.14
28600.00	Peak	Н	-	-	-51.07	3.87	50.26	68.20	-17.94

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: 5745MHz

Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	Н	-	-	-84.61	21.73	44.12	53.98	-9.86
11490.00	Peak	Н	-	-	-72.15	21.73	56.58	73.98	-17.40
17235.00	Peak	Н	-	-	-73.95	29.69	62.74	68.20	-5.46
22980.00	Average	Н	-	-	-63.26	2.17	36.37	53.98	-17.61
22980.00	Peak	Н	-	-	-52.24	2.17	47.39	73.98	-26.59
28725.00	Peak	Н	-	-	-50.48	3.73	50.71	68.20	-17.49

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5785MHz

Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	H	-	•	-85.04	21.80	43.76	53.98	-10.22
11570.00	Peak	Н	-	-	-72.55	21.80	56.25	73.98	-17.73
17355.00	Peak	Н	-	-	-73.37	29.86	63.49	68.20	-4.71
23140.00	Peak	Н	-	-	-51.30	2.10	48.26	68.20	-19.94
28925.00	Peak	Н	-	-	-52.31	3.60	48.75	68.20	-19.45

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: 5825MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	Н	-	-	-85.10	22.35	44.25	53.98	-9.73
11650.00	Peak	Н	-	-	-72.27	22.35	57.08	73.98	-16.90
17475.00	Peak	Н	-	-	-73.91	30.35	63.44	68.20	-4.76
23300.00	Peak	Н	-	-	-51.50	2.14	48.10	68.20	-20.10
29125.00	Peak	Н	-	-	-51.19	3.75	50.02	68.20	-18.18

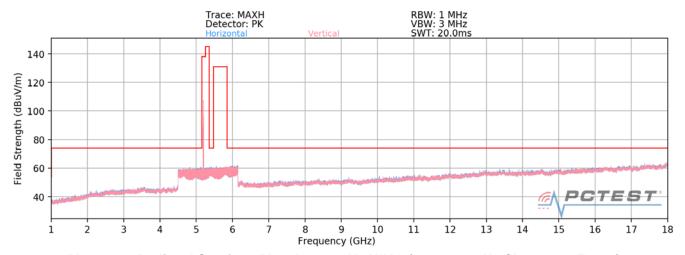
Table 7-115. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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O COOC POTEOT			110000010110010

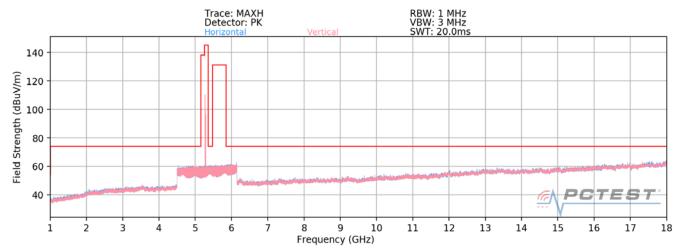


7.6.3 MIMO Radiated Spurious Emission Measurements

26 Tones



Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 26 Tones)



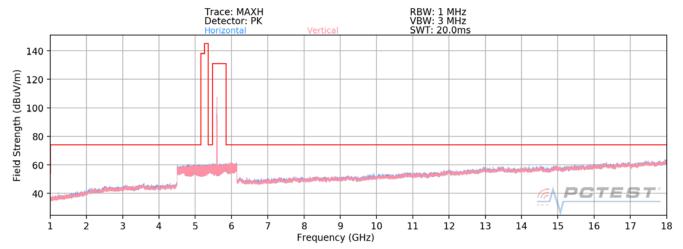
Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U2A Ch. 56 - 26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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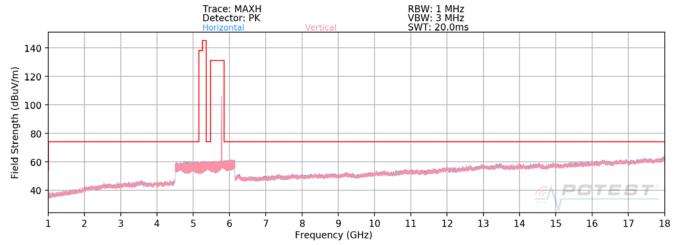
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Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U2C Ch. 120 - 26 Tones)

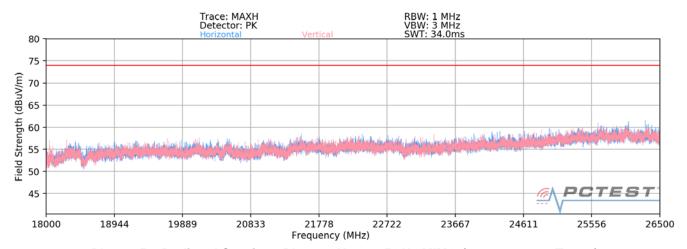


Plot 7-352. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 26 Tones)

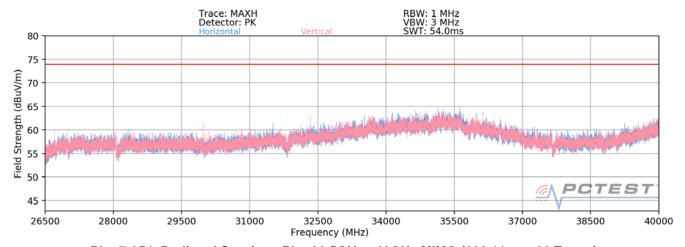
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-353. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones)



Plot 7-354. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 265 of 307
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MIMO 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	V	-	-	-68.91	15.24	53.33	68.20	-14.87
15540.00	Average	V	-	-	-81.47	21.48	47.01	53.98	-6.97
15540.00	Peak	V	-	-	-69.63	21.48	58.85	73.98	-15.13
20720.00	Average	V	-	-	-63.92	1.63	35.17	53.98	-18.81
20720.00	Peak	V	-	-	-51.88	1.63	47.21	73.98	-26.77
25900.00	Peak	V	-	-	-51.63	4.37	50.20	68.20	-18.00

Table 7-116. Radiated Measurements MIMO (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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	-	-	-69.79	15.26	52.47	68.20	-15.73
15600.00	Average	V	245	41	-81.37	21.95	47.58	53.98	-6.39
15600.00	Peak	V	245	41	-68.55	21.95	60.40	73.98	-13.57
20800.00	Average	V	-	-	-64.05	1.54	34.95	53.98	-19.03
20800.00	Peak	V	-	-	-52.57	1.54	46.43	73.98	-27.55
26000.00	Peak	V	-	-	-50.01	4.18	51.62	68.20	-16.58

Table 7-117. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 266 of 307
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Worst Case Transfer Rate: MCS0

54 RU Index:

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	V	-	-	-69.02	15.18	53.16	68.20	-15.04
15720.00	Average	V	-	-	-81.32	21.96	47.64	53.98	-6.34
15720.00	Peak	V	-	-	-69.97	21.96	58.99	73.98	-14.99
20960.00	Average	V	-	-	-63.58	1.82	35.69	53.98	-18.28
20960.00	Peak	V	-	-	-52.52	1.82	46.75	73.98	-27.22
26200.00	Peak	V	-	-	-51.58	4.39	50.27	68.20	-17.93

Table 7-118. Radiated Measurements MIMO (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: 5260MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	V	-	-	-69.01	15.74	53.73	68.20	-14.47
15780.00	Average	V	-	-	-81.43	22.25	47.82	53.98	-6.16
15780.00	Peak	V	-	-	-69.63	22.25	59.62	73.98	-14.36
21040.00	Average	V	-	-	-63.23	1.91	36.14	53.98	-17.84
21040.00	Peak	V	-	-	-51.91	1.91	47.46	73.98	-26.52
26300.00	Peak	V	-	-	-50.73	4.34	51.07	68.20	-17.13

Table 7-119. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 207 of 207
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	V	-	-	-69.40	15.84	53.44	68.20	-14.76
15840.00	Average	V	-	-	-81.51	22.69	48.18	53.98	-5.80
15840.00	Peak	V	-	-	-69.98	22.69	59.71	73.98	-14.27
21120.00	Average	V	-	-	-63.70	2.10	35.86	53.98	-18.12
21120.00	Peak	V	-	-	-52.23	2.10	47.33	73.98	-26.65
26400.00	Peak	V	-	-	-51.03	4.39	50.82	68.20	-17.38

Table 7-120. Radiated Measurements MIMO (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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	V	-	-	-81.30	16.29	41.99	53.98	-11.99
10640.00	Peak	V	-	-	-69.68	16.29	53.61	73.98	-20.37
15960.00	Average	V	-	-	-81.70	22.69	47.99	53.98	-5.99
15960.00	Peak	V	-	-	-70.68	22.69	59.01	73.98	-14.97
21280.00	Average	V	-	-	-63.90	2.09	35.65	53.98	-18.33
21280.00	Peak	V	-	-	-52.24	2.09	47.31	73.98	-26.67
26600.00	Peak	V	-	-	-50.50	4.43	51.39	68.20	-16.81

Table 7-121. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	V	-	-	-80.35	16.43	43.08	53.98	-10.90
11000.00	Peak	٧	-		-68.81	16.43	54.62	73.98	-19.36
16500.00	Peak	V	-	-	-69.56	23.48	60.92	68.20	-7.28
22000.00	Peak	V	-	-	-51.76	2.04	47.74	68.20	-20.46
27500.00	Peak	V	-	-	-51.41	3.49	49.54	68.20	-18.66

Table 7-122. Radiated Measurements MIMO (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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	V	-	-	-80.61	16.18	42.57	53.98	-11.40
11200.00	Peak	V	-	-	-68.97	16.18	54.21	73.98	-19.76
16800.00	Peak	V	-	-	-70.71	24.07	60.36	68.20	-7.84
22400.00	Average	V	-	-	-63.45	2.26	36.27	53.98	-17.71
22400.00	Peak	V	-	-	-51.87	2.26	47.85	73.98	-26.13
28000.00	Peak	V	-	-	-51.00	3.87	50.33	68.20	-17.87

Table 7-123. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 269 of 307
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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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	V	-	-	-81.42	17.06	42.64	53.98	-11.34
11440.00	Peak	V	-	-	-69.50	17.06	54.56	73.98	-19.42
17160.00	Peak	V	-	-	-68.81	23.48	61.67	68.20	-6.53
22880.00	Average	V	-	-	-63.33	2.45	36.58	53.98	-17.40
22880.00	Peak	V	-	-	-52.14	2.45	47.77	73.98	-26.21
28600.00	Peak	V	-	-	-51.05	0.61	47.02	68.20	-21.18

Table 7-124. Radiated Measurements MIMO (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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	V	341	345	-81.39	17.64	43.25	53.98	-10.73
11490.00	Peak	V	341	345	-69.42	17.64	55.22	73.98	-18.76
17235.00	Peak	V	-	-	-70.28	24.38	61.10	68.20	-7.10
22980.00	Average	V	-	-	-63.45	2.17	36.18	53.98	-17.80
22980.00	Peak	V	-	-	-51.48	2.17	48.15	73.98	-25.83
28725.00	Peak	V	-		-51.72	3.73	49.47	68.20	-18.73

Table 7-125. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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:

5785MHz

Channel:

157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	V	-	-	-81.20	16.94	42.74	53.98	-11.24
11570.00	Peak	V	-	-	-69.37	16.94	54.57	73.98	-19.41
17355.00	Peak	V	-	-	-70.45	24.85	61.40	68.20	-6.80
23140.00	Peak	V	-	-	-51.43	2.10	48.13	68.20	-20.07
28925.00	Peak	V	-	-	-51.54	3.60	49.52	68.20	-18.68

Table 7-126. Radiated Measurements MIMO (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

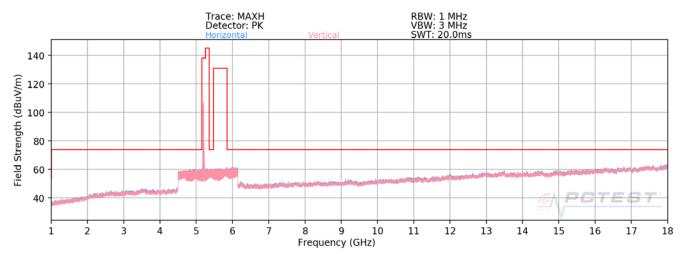
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	V	-	-	-81.23	17.47	43.24	53.98	-10.74
11650.00	Peak	٧	-	-	-68.94	17.47	55.53	73.98	-18.45
17475.00	Peak	>	-	1	-70.57	25.03	61.46	68.20	-6.74
23300.00	Peak	V	-	-	-52.12	2.14	47.48	68.20	-20.72
29125.00	Peak	V	-	-	-51.80	3.75	49.41	68.20	-18.79

Table 7-127. Radiated Measurements MIMO (26 Tones)

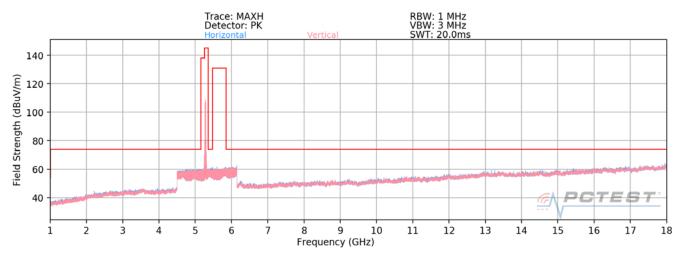
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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242 Tones



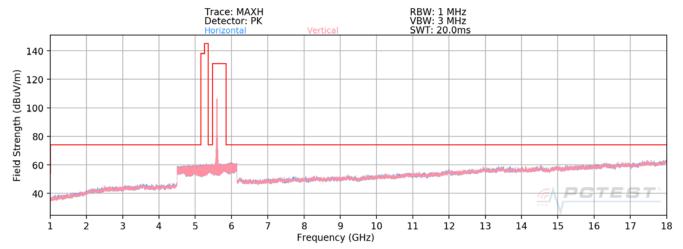
Plot 7-355. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones)



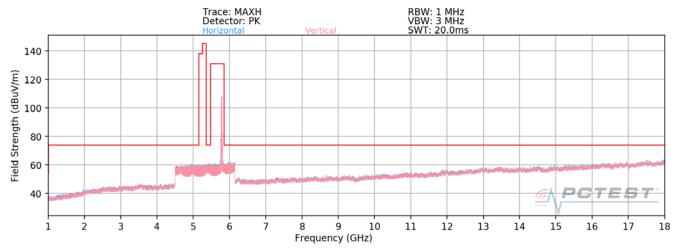
Plot 7-356. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-357. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U2C Ch. 120 - 242 Tones)

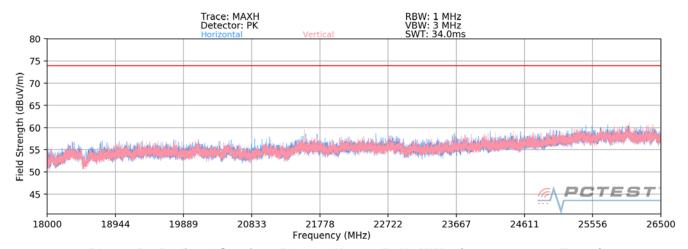


Plot 7-358. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U3 Ch. 157 - 242 Tones)

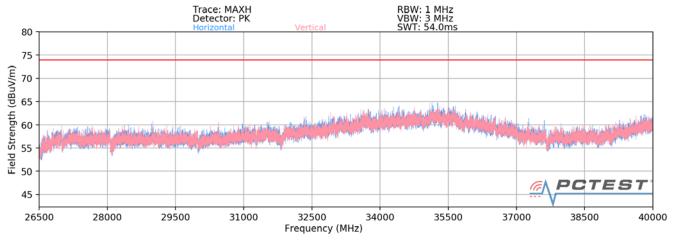
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-359. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax - 242 Tones)



Plot 7-360. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	V	115	72	-69.45	15.24	52.79	68.20	-15.41
15540.00	Average	V	-	-	-81.43	21.48	47.05	53.98	-6.93
15540.00	Peak	V	-	-	-69.63	21.48	58.85	73.98	-15.13
20720.00	Average	V	-	-	-63.88	1.63	35.21	53.98	-18.77
20720.00	Peak	V	-	-	-52.85	1.63	46.24	73.98	-27.74
25900.00	Peak	V	-	-	-51.58	4.37	50.25	68.20	-17.95

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: 5200MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	-	-	-69.60	15.26	52.66	68.20	-15.54
15600.00	Average	V	-	-	-81.31	21.95	47.64	53.98	-6.33
15600.00	Peak	V	-	-	-69.36	21.95	59.59	73.98	-14.38
20800.00	Average	V	-	-	-64.00	1.54	35.00	53.98	-18.98
20800.00	Peak	V	-	-	-52.67	1.54	46.33	73.98	-27.65
26000.00	Peak	V	-	-	-51.26	4.18	50.37	68.20	-17.83

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	V	-	-	-69.40	15.18	52.78	68.20	-15.42
15720.00	Average	V	-	-	-81.28	21.96	47.68	53.98	-6.30
15720.00	Peak	V	-	-	-69.47	21.96	59.49	73.98	-14.49
20960.00	Average	V	-	-	-63.51	1.82	35.76	53.98	-18.21
20960.00	Peak	V	-	-	-52.37	1.82	46.90	73.98	-27.07
26200.00	Peak	V	-	-	-51.66	4.39	50.19	68.20	-18.01

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: 5260MHz

Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	V	-	-	-69.40	15.74	53.34	68.20	-14.86
15780.00	Average	V	-	-	-81.38	22.25	47.87	53.98	-6.11
15780.00	Peak	V	-	-	-69.52	22.25	59.73	73.98	-14.25
21040.00	Average	V	-	-	-62.56	1.91	36.81	53.98	-17.17
21040.00	Peak	V	-	-	-51.33	1.91	48.04	73.98	-25.94
26300.00	Peak	V	-	-	-50.72	4.34	51.08	68.20	-17.12

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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: 5280MHz

Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	V	-	-	-69.00	15.84	53.84	68.20	-14.36
15840.00	Average	V	-	-	-81.56	22.69	48.13	53.98	-5.85
15840.00	Peak	V	-	-	-69.65	22.69	60.04	73.98	-13.94
21120.00	Average	V	-	-	-63.44	2.10	36.12	53.98	-17.86
21120.00	Peak	V	-	-	-52.05	2.10	47.51	73.98	-26.47
26400.00	Peak	V	-	-	-51.03	4.39	50.82	68.20	-17.38

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: 5320MHz

Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	V	-	-	-81.05	16.29	42.24	53.98	-11.74
10640.00	Peak	V	-	-	-69.29	16.29	54.00	73.98	-19.98
15960.00	Average	V	-	-	-81.71	22.69	47.98	53.98	-6.00
15960.00	Peak	V	-	-	-70.23	22.69	59.46	73.98	-14.52
21280.00	Average	V	-	-	-63.53	2.09	36.02	53.98	-17.96
21280.00	Peak	V	-	-	-51.92	2.09	47.63	73.98	-26.35
26600.00	Peak	V	-	-	-51.41	4.43	50.48	68.20	-17.72

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

FCC ID: A3LSMG996U	Proud to be part of @ element	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:

5500MHz

Channel:

100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	V	-	-	-80.38	16.43	43.05	53.98	-10.93
11000.00	Peak	V	-	-	-68.47	16.43	54.96	73.98	-19.02
16500.00	Peak	V	-	-	-70.00	23.48	60.48	68.20	-7.72
22000.00	Peak	V	-	-	-51.66	2.04	47.84	68.20	-20.36
27500.00	Peak	V	-	-	-50.78	3.49	50.17	68.20	-18.03

Table 7-134. 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: 5600MHz

Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	V	-	-	-80.66	16.18	42.52	53.98	-11.45
11200.00	Peak	V	-	-	-69.20	16.18	53.98	73.98	-19.99
16800.00	Peak	V	-	-	-69.77	24.07	61.30	68.20	-6.90
22400.00	Average	V	-	-	-63.33	2.45	36.58	53.98	-17.40
22400.00	Peak	V	-	-	-51.62	2.45	48.29	73.98	-25.69
28000.00	Peak	V	-	-	-51.07	0.61	47.00	68.20	-21.20

Table 7-135. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	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

61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5720MHz

Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	V	399	87	-81.31	17.06	42.75	53.98	-11.23
11440.00	Peak	V	399	87	-69.71	17.06	54.35	73.98	-19.63
17160.00	Peak	V	-	-	-70.09	23.48	60.39	68.20	-7.81
22880.00	Average	V	-	-	-63.15	2.26	36.57	53.98	-17.41
22880.00	Peak	V	-	-	-52.00	2.26	47.72	73.98	-26.26
28600.00	Peak	V	-	-	-51.41	3.87	49.92	68.20	-18.28

Table 7-136. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	V	-	•	-81.37	17.64	43.27	53.98	-10.71
11490.00	Peak	V	-	-	-69.65	17.64	54.99	73.98	-18.99
17235.00	Peak	V	-	-	-70.10	24.38	61.28	68.20	-6.92
22980.00	Average	V	-	-	-63.26	2.17	36.37	53.98	-17.61
22980.00	Peak	V	-	-	-52.09	2.17	47.54	73.98	-26.44
28725.00	Peak	V	-	-	-50.70	3.73	50.49	68.20	-17.71

Table 7-137. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 270 of 207
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Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate:

MCS0

RU Index:

61

Distance of Measurements:

1 & 3 Meters

Operating Frequency:

5785MHz

Channel:

157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	V	260	272	-81.07	16.94	42.87	53.98	-11.11
11570.00	Peak	٧	260	272	-69.71	16.94	54.23	73.98	-19.75
17355.00	Peak	V	-	-	-70.08	24.85	61.77	68.20	-6.43
23140.00	Peak	V	-	-	-50.69	2.10	48.87	68.20	-19.33
28925.00	Peak	V	-	-	-51.81	3.60	49.25	68.20	-18.95

Table 7-138. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	V	134	132	-81.35	17.47	43.12	53.98	-10.86
11650.00	Peak	٧	134	132	-69.09	17.47	55.38	73.98	-18.60
17475.00	Peak	>	-	1	-70.39	25.03	61.64	68.20	-6.56
23300.00	Peak	V	-	-	-52.03	2.14	47.57	68.20	-20.63
29125.00	Peak	V	-	-	-51.81	3.75	49.40	68.20	-18.80

Table 7-139. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 280 of 307
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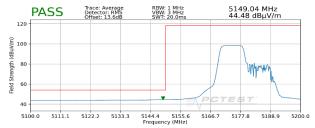


7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

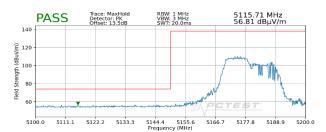
106 Tones

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

802.11ax
MCS0
53
3 Meters
5180MHz
36



Plot 7-361. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 106 Tones)



Plot 7-362. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

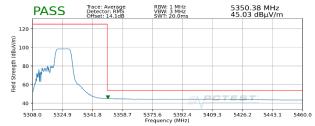
MCS0

54

3 Meters

5320MHz

64



Plot 7-363. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 106 Tones)

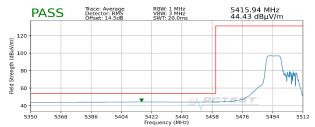


Plot 7-364. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 106 Tones)

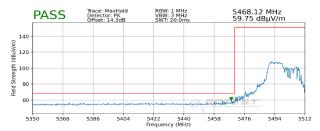
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 281 of 307
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Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: RU Index: 53 Distance of Measurements: 3 Meters Operating Frequency: 5500MHz Channel: 100

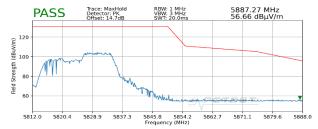


Plot 7-365. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 106 Tones)



Plot 7-366. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C - 106 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 **RU Index:** 54 Distance of Measurements: 3 Meters Operating Frequency: 5825MHz Channel: 165



Plot 7-367. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3 - 106 Tones)

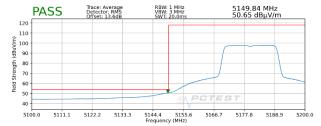
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 282 of 307
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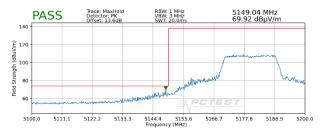
242 Tones

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

802.11ax
MCS0
61
3 Meters
5180MHz
36



Plot 7-368. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)



Plot 7-369. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

61

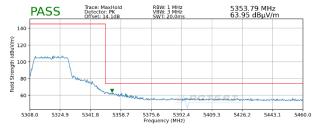
3 Meters

5320MHz

64



Plot 7-370. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)



Plot 7-371. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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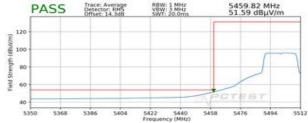
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

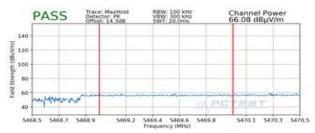
Distance of Measurements: Operating Frequency:

Channel:

802.11ax
MCS0
61
3 Meters
5500MHz
100

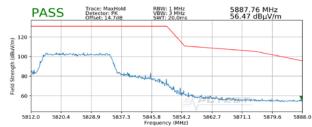


Plot 7-372. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C - 242 Tones)



Plot 7-373. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C - 242 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 3 Meters Operating Frequency: 5825MHz Channel: 165



Plot 7-374. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3 - 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

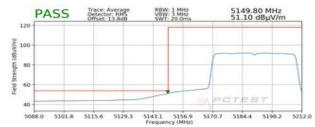
MCS0

65

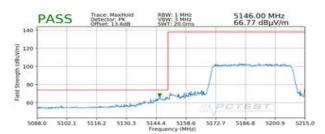
3 Meters

5190MHz

38

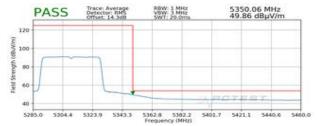


Plot 7-375. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

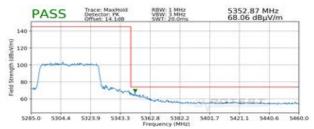


Plot 7-376. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

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



Plot 7-377. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



Plot 7-378. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

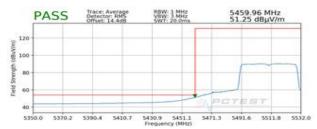
MCS0

65

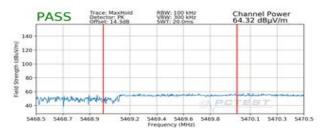
3 Meters

5510MHz

102



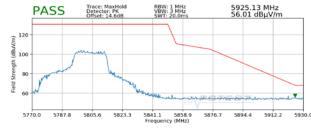
Plot 7-379. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-380. 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 7-381. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 200 of 207
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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

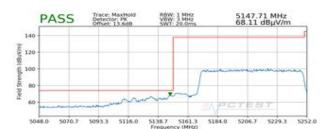
3 Meters

5210MHz

42

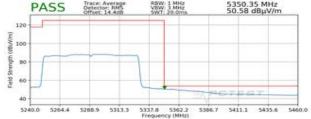


Plot 7-382. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

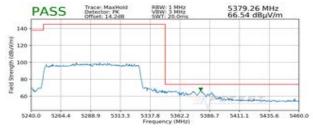


Plot 7-383. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

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



Plot 7-384. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



Plot 7-385. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

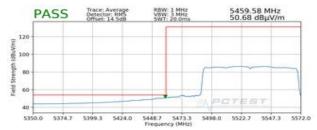
MCS0

67

3 Meters

5530MHz

106



Plot 7-386. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-387. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

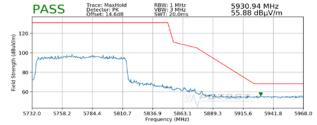
MCS0

67

3 Meters

5775MHz

155



Plot 7-388. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

106 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

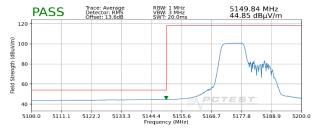
MCS0

53

3 Meters

5180MHz

36



Plot 7-389. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 106 Tones)



Plot 7-390. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

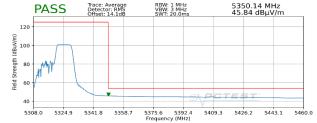
MCS0

54

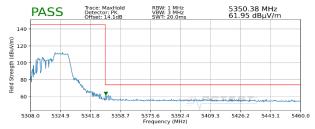
3 Meters

5320MHz

64



Plot 7-391. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 106 Tones)

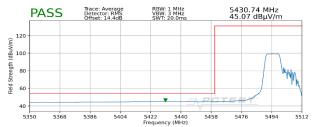


Plot 7-392. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 106 Tones)

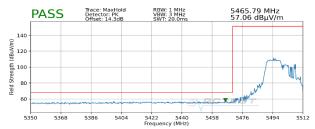
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: **RU Index:** 53 Distance of Measurements: 3 Meters Operating Frequency: 5500MHz Channel: 100



Plot 7-393. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 106 Tones)



Plot 7-394. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 2C - 106 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 **RU Index:** 54 Distance of Measurements: 3 Meters Operating Frequency: 5825MHz Channel: 165



Plot 7-395. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3 - 106 Tones)

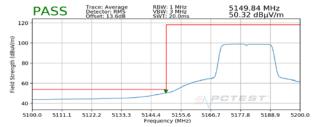
FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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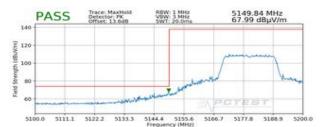
242 Tones

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

802.11ax
MCS0
61
3 Meters
5180MHz
36



Plot 7-396. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)



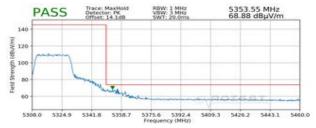
Plot 7-397. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5320MHz
64



Plot 7-398. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



Plot 7-399. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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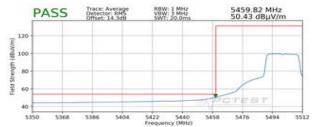
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

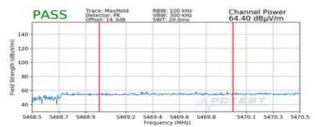
Distance of Measurements: Operating Frequency:

Channel:

802.11ax MCS0 61 3 Meters 5500MHz 100



Plot 7-400. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-401. 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

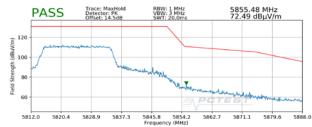
MCS0

61

3 Meters

5825MHz

165



Plot 7-402. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMG996U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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