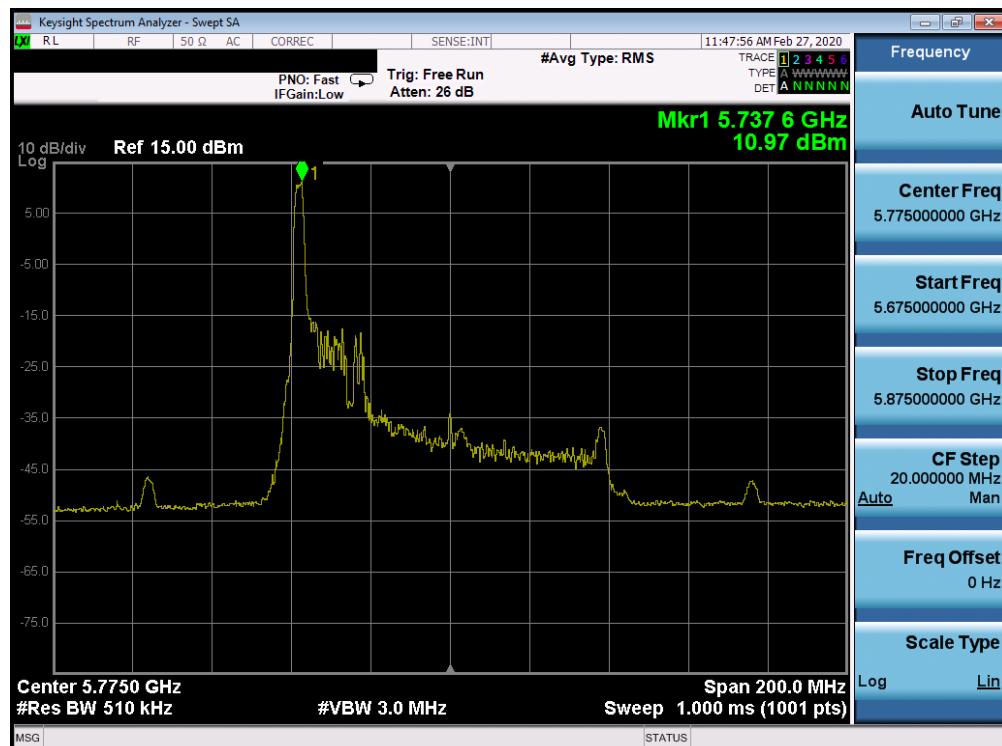




Plot 7-713. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 155)



Plot 7-714. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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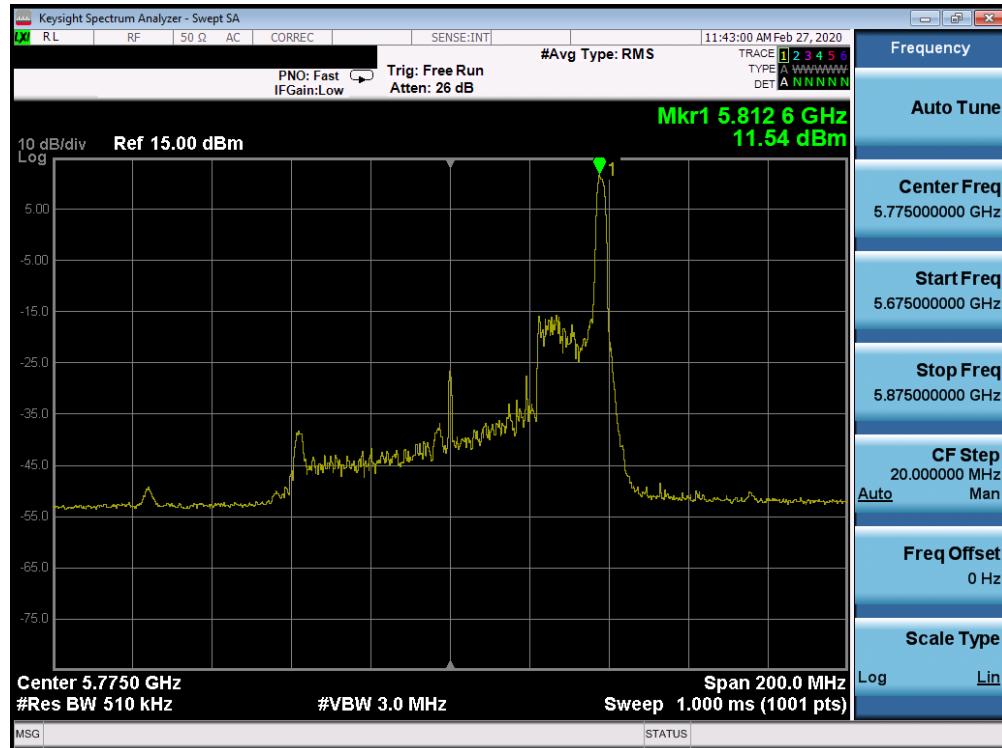


Plot 7-715. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 3) – Ch. 155)

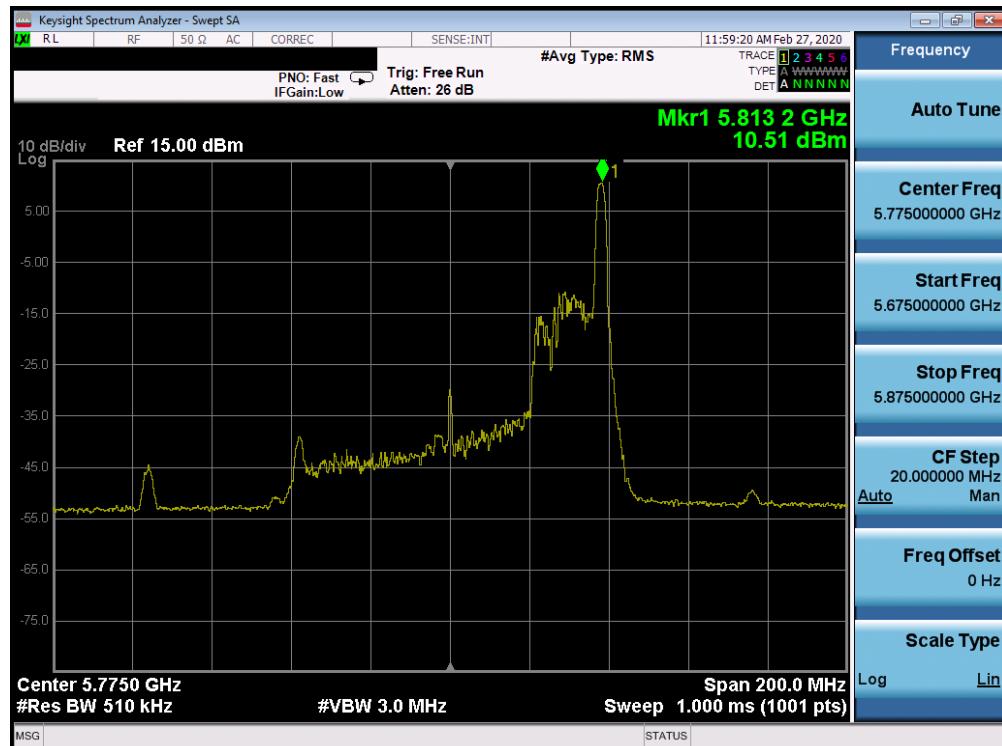


Plot 7-716. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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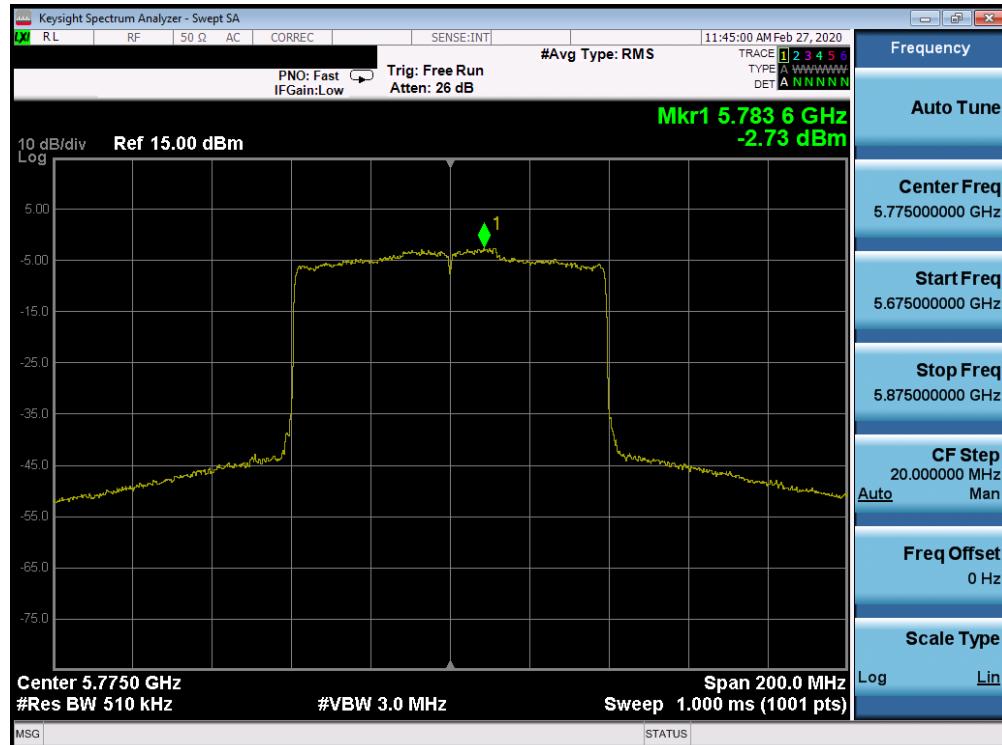


Plot 7-717. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 3) – Ch. 155)

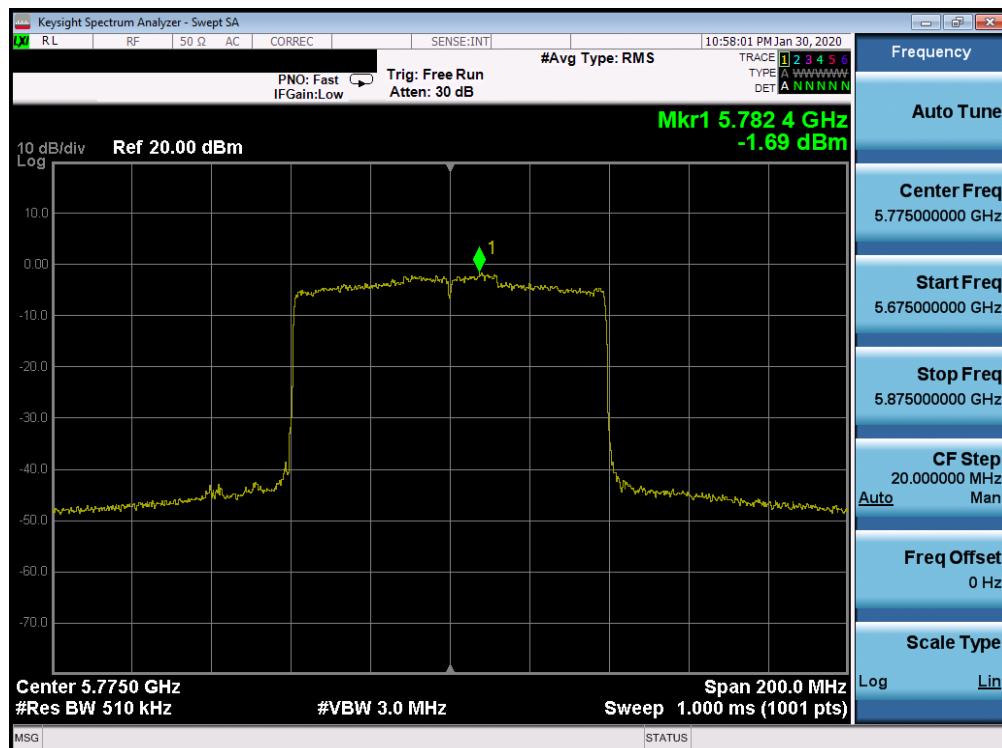


Plot 7-718. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-719. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax – RU996 (UNII Band 3) – Ch. 155)



Plot 7-720. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax – RU996 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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**Note:**

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E2), the power spectral density at Core 0 and Core 1 were first measured separately with reduced Core 0 and Core 1 powers per manufacturer's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is -8.61 dBi for Core 0 and -7.68 dBi for Core 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] \text{ dBi} \\ &= (-5.12) \text{ dBi}\end{aligned}$$

Sample CDD/SDM Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Core 0 and 6.27 dBm for Core 1.

$$\text{Core 0} + \text{Core 1} = \text{CDD/SDM}$$

$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

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

Assuming the average CDD/SDM power density was calculated to be 9.09 dBm with directional gain of -5.12 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{directional gain (dBi)}$$

$$9.09 \text{ dBm} + (-5.12) \text{ dBi} = 3.97 \text{ dBm}$$

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7.6 Radiated Spurious Emission Measurements – Above 1GHz

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

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. RU26, RU52, RU106, RU242, RU484 and RU996), 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 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-82 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-82. 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 $\geq 2 \times$ span/RBW)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

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

Test Setup

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

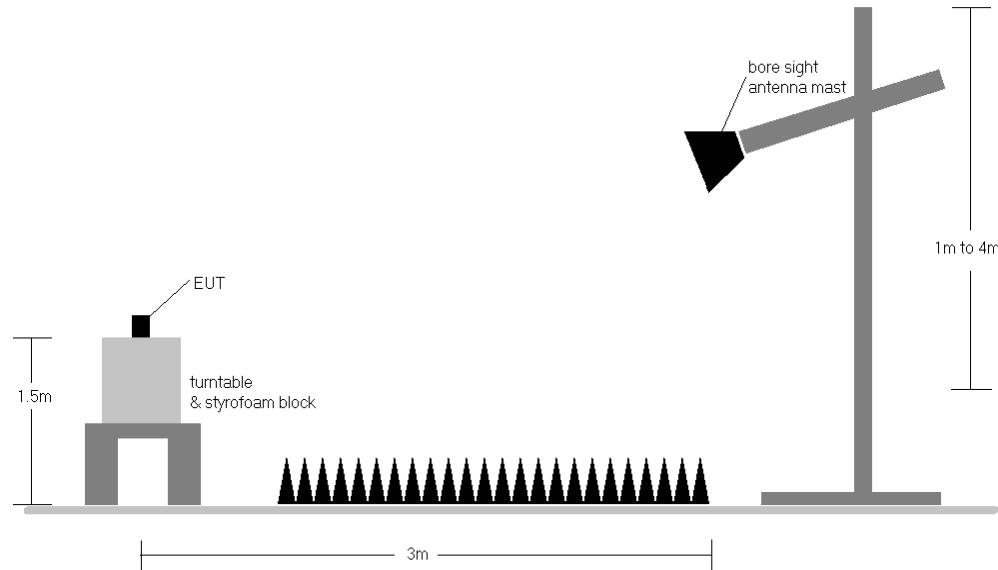


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-82.
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 7-82. 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 dB μ V/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 68.2dB μ V/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 [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

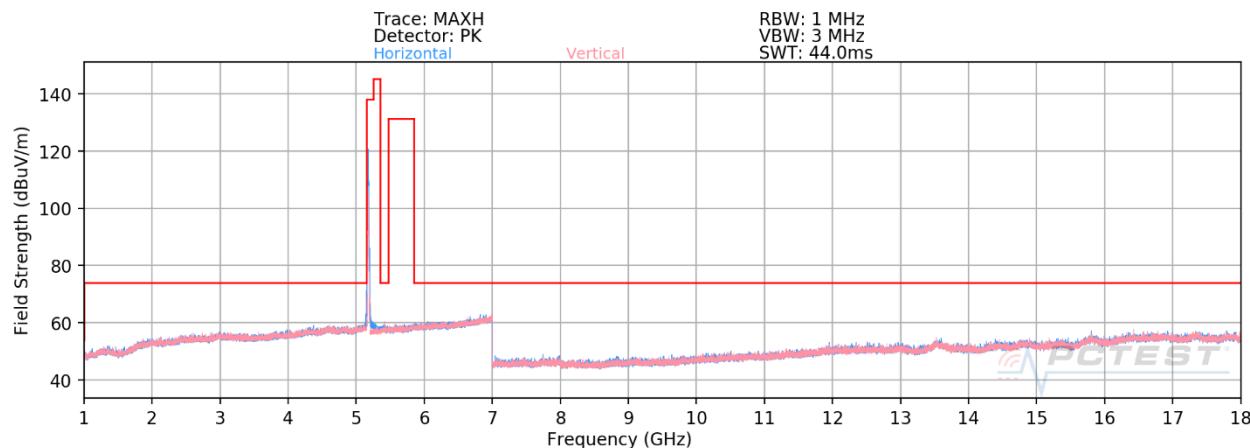
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

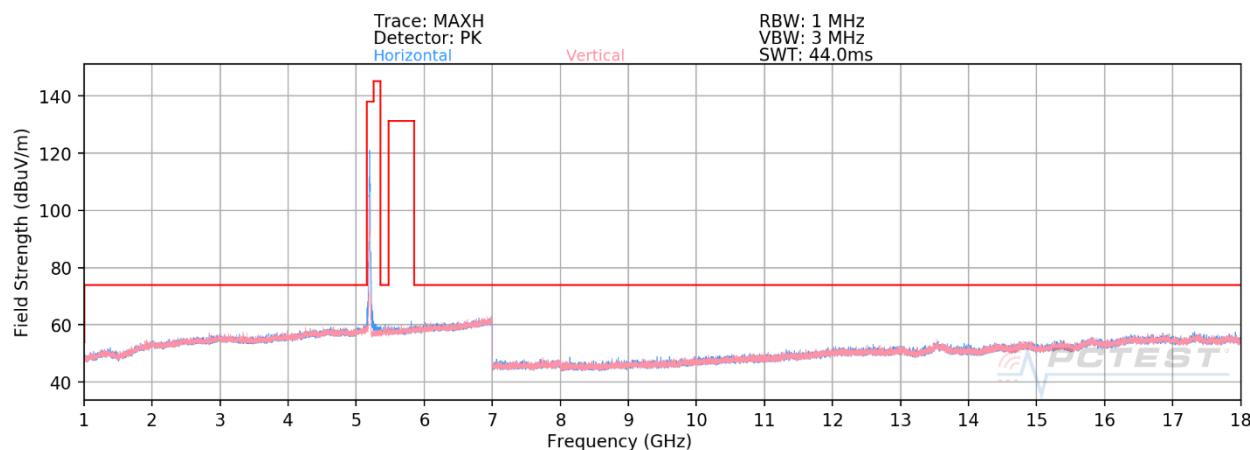
FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6.1 SISO Core 0 Radiated Spurious Emission Measurements

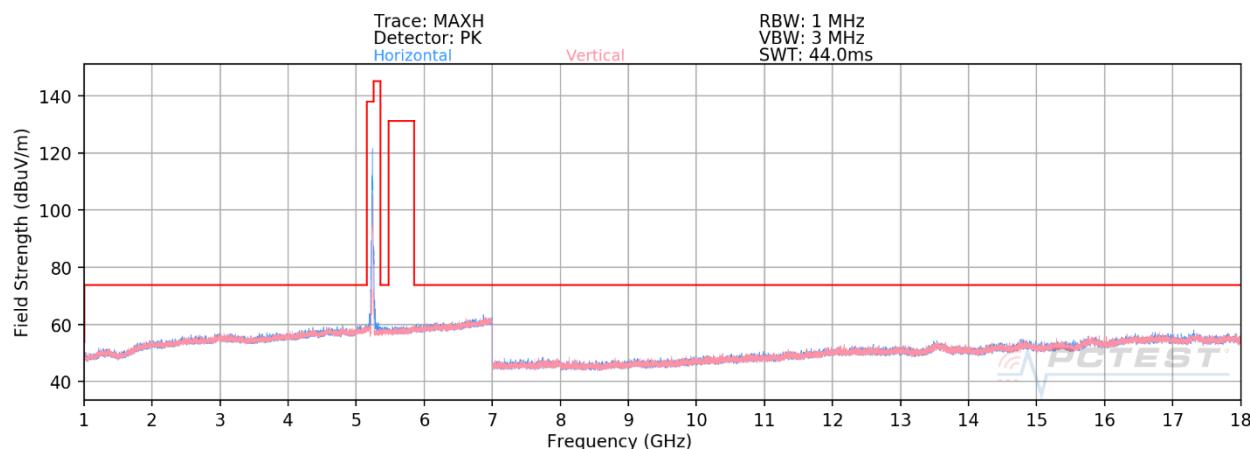
RU26



Plot 7-721. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U1 Ch. 36 – RU26)

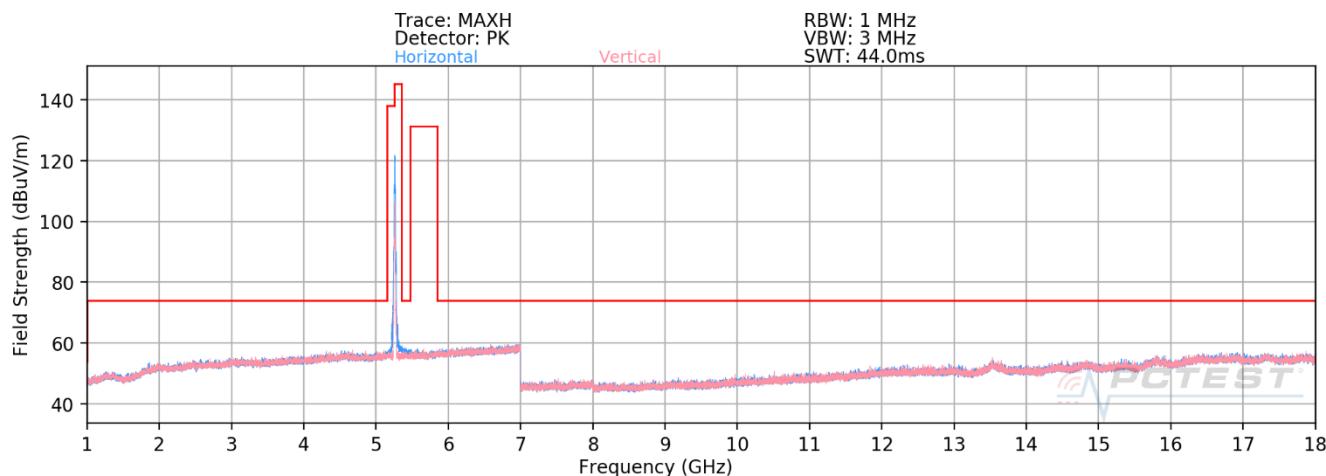


Plot 7-722. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U1 Ch. 40 – RU26)

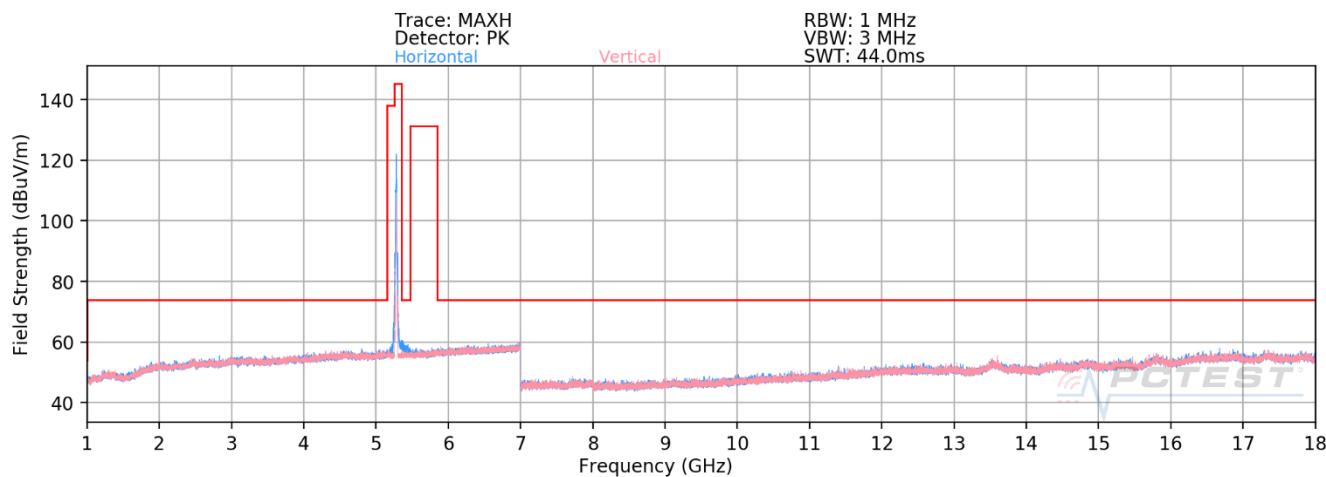


Plot 7-723. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U1 Ch. 48 – RU26)

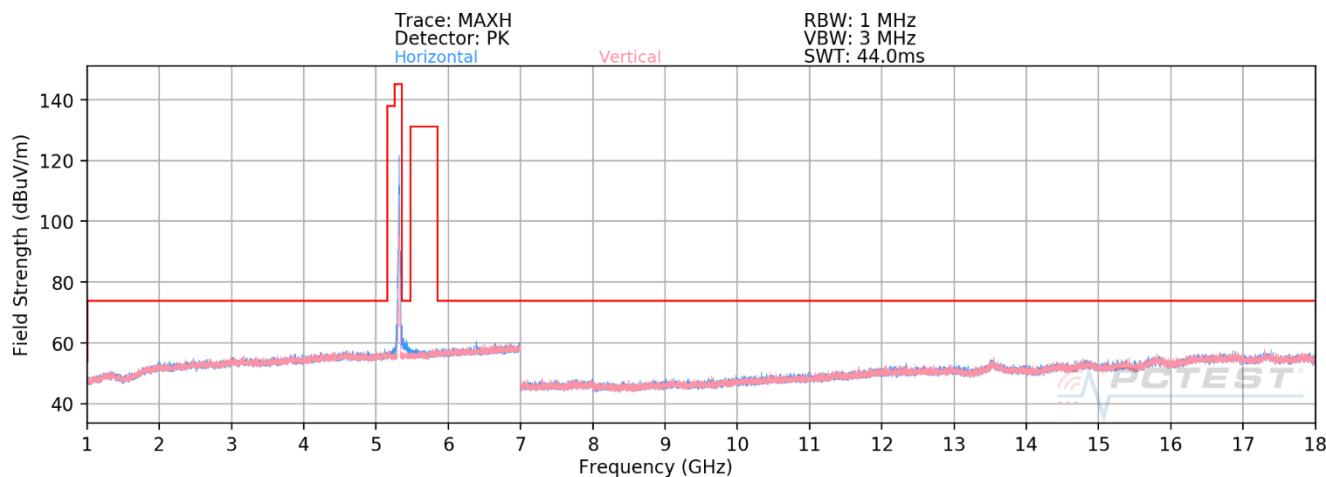
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-724. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2A Ch. 52 – RU26)

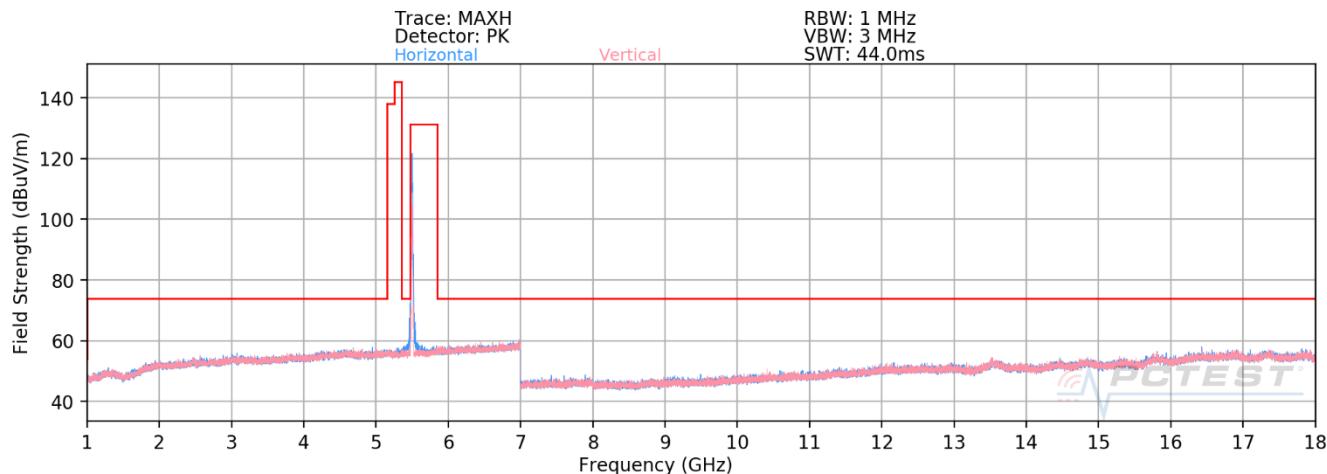


Plot 7-725. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2A Ch. 60 – RU26)

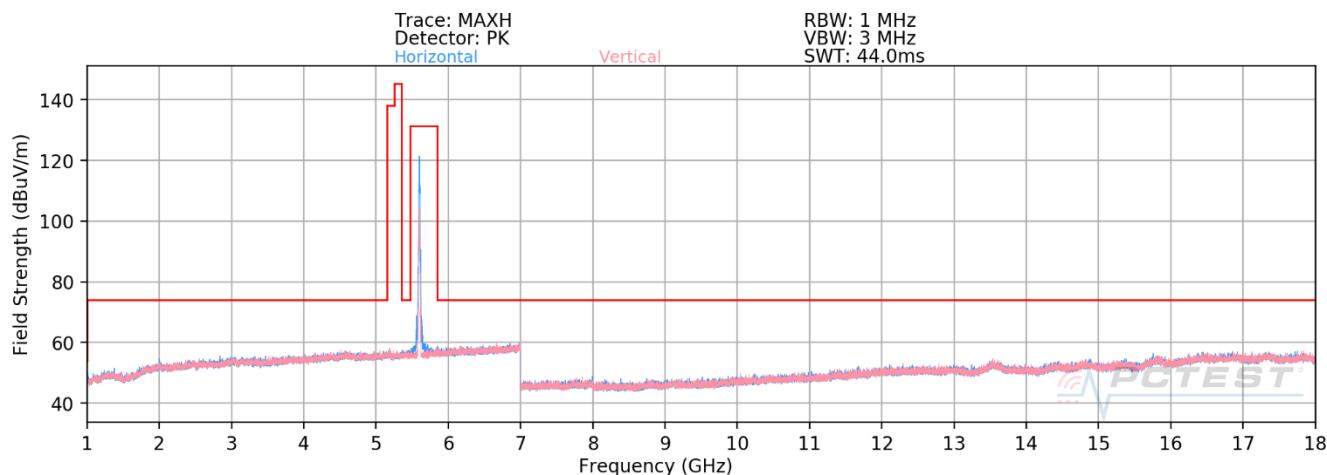


Plot 7-726. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2A Ch. 64 – RU26)

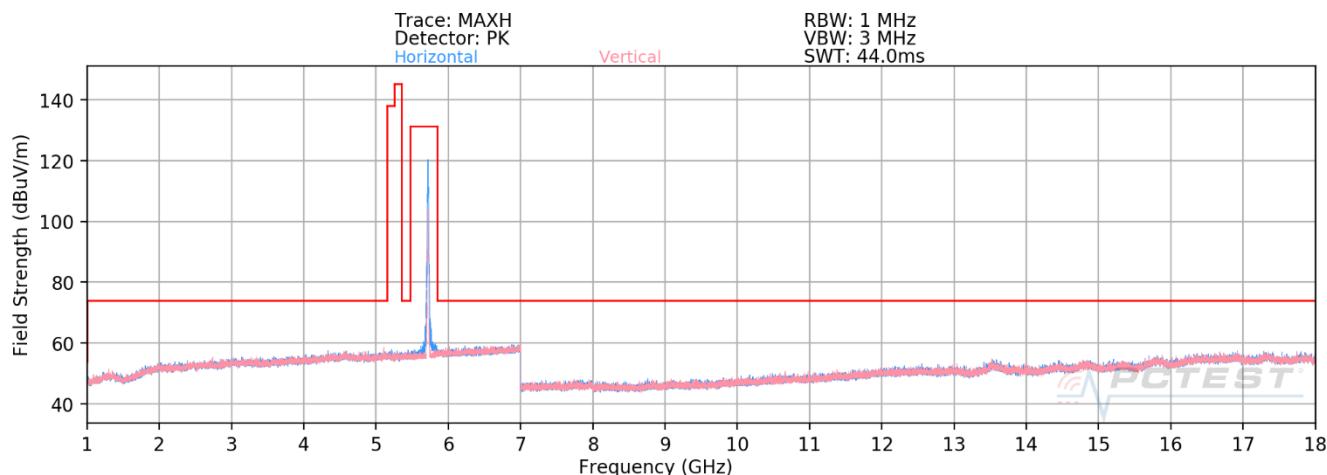
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-727. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2C Ch. 100 – RU26)

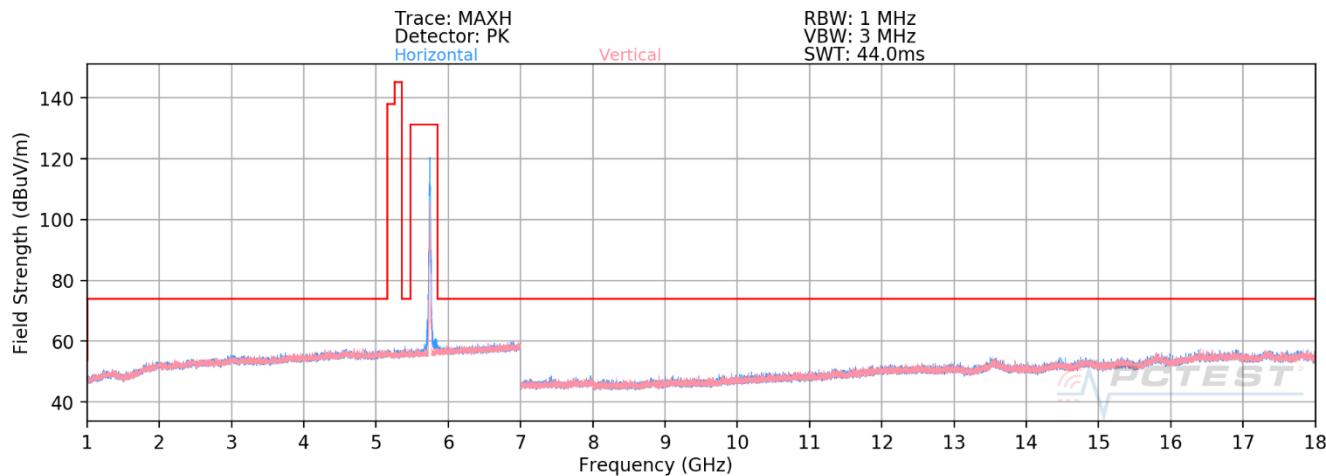


Plot 7-728. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2C Ch. 116 – RU26)

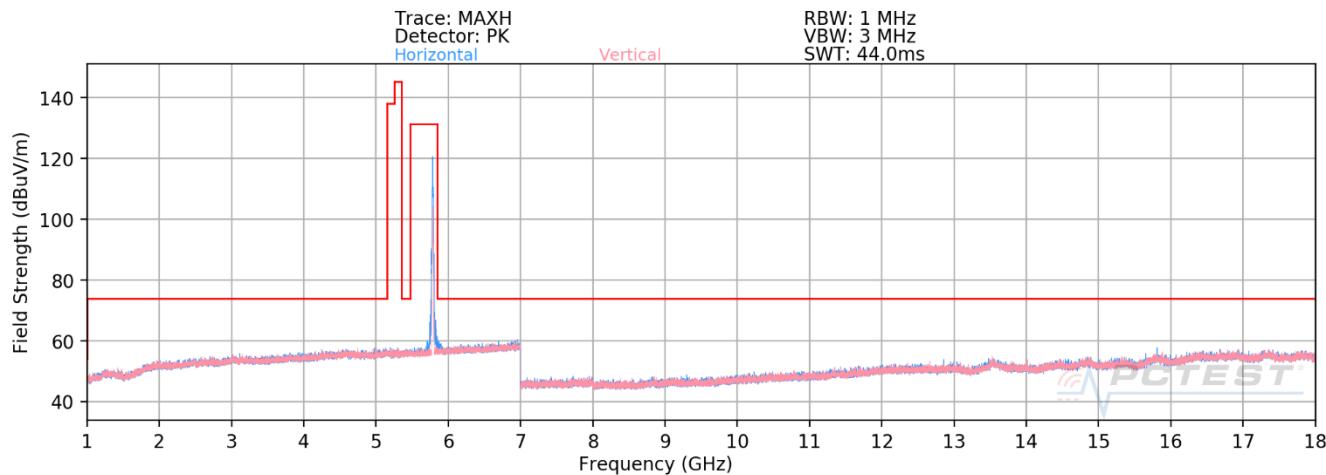


Plot 7-729. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2C Ch. 144 – RU26)

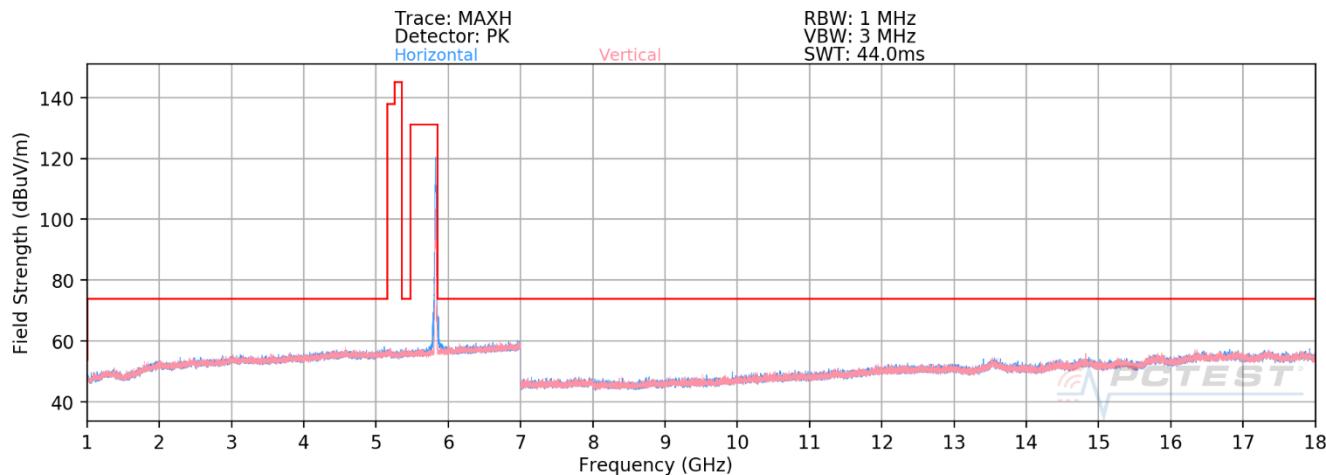
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-730. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U3 Ch. 149 – RU26)



Plot 7-731. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U3 Ch. 157 – RU26)



Plot 7-732. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U3 Ch. 165 – RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Core 0 Radiated Spurious Emission Measurements (RU26)

§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:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	H	-	-	-71.88	14.34	49.46	68.20	-18.74
15540.00	Average	H	-	-	-85.62	20.37	41.75	53.98	-12.23
15540.00	Peak	H	-	-	-74.04	20.37	53.33	73.98	-20.65

Table 7-83. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	H	-	-	-72.32	14.43	49.11	68.20	-19.09
15600.00	Average	H	-	-	-85.14	20.56	42.42	53.98	-11.56
15600.00	Peak	H	-	-	-73.42	20.56	54.14	73.98	-19.84

Table 7-84. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-71.96	14.63	49.67	68.20	-18.53
15720.00	Average	H	-	-	-85.81	21.60	42.79	53.98	-11.19
15720.00	Peak	H	-	-	-74.31	21.60	54.29	73.98	-19.69

Table 7-85. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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	H	-	-	-71.84	14.85	50.01	68.20	-18.19
15780.00	Average	H	-	-	-85.97	21.89	42.92	53.98	-11.06
15780.00	Peak	H	-	-	-73.61	21.89	55.28	73.98	-18.70

Table 7-86. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	5300MHz
Channel:	60

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]
10600.00	Peak	H	-	-	-71.34	14.37	50.03	68.20	-18.17
15900.00	Average	H	-	-	-85.84	21.77	42.93	53.98	-11.05
15900.00	Peak	H	-	-	-74.71	21.77	54.06	73.98	-19.92

Table 7-87. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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	H	-	-	-83.59	14.85	38.26	53.98	-15.72
10640.00	Peak	H	-	-	-71.79	14.85	50.06	73.98	-23.92
15960.00	Average	H	-	-	-85.43	21.74	43.31	53.98	-10.67
15960.00	Peak	H	-	-	-73.40	21.74	55.34	73.98	-18.64

Table 7-88. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11000.00	Average	H	-	-	-84.48	15.88	38.40	53.98	-15.58
11000.00	Peak	H	-	-	-72.45	15.88	50.43	73.98	-23.55
16500.00	Peak	H	-	-	-73.14	21.60	55.46	68.20	-12.74

Table 7-89. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11160.00	Average	H	-	-	-84.59	16.51	38.92	53.98	-15.06
11160.00	Peak	H	-	-	-72.41	16.51	51.10	73.98	-22.88
16740.00	Peak	H	-	-	-73.33	22.16	55.83	68.20	-12.37

Table 7-90. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11440.00	Average	H	-	-	-84.38	16.74	39.36	53.98	-14.62
11440.00	Peak	H	-	-	-72.80	16.74	50.94	73.98	-23.04
17160.00	Peak	H	-	-	-73.33	21.60	55.27	68.20	-12.93

Table 7-91. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11490.00	Average	H	-	-	-84.56	16.37	38.81	53.98	-15.17
11490.00	Peak	H	-	-	-73.21	16.37	50.16	73.98	-23.82
17235.00	Peak	H	-	-	-73.54	22.25	55.71	68.20	-12.49

Table 7-92. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11570.00	Average	H	-	-	-84.05	17.01	39.96	53.98	-14.02
11570.00	Peak	H	-	-	-72.51	17.01	51.50	73.98	-22.48
17355.00	Peak	H	-	-	-73.08	22.61	56.53	68.20	-11.67

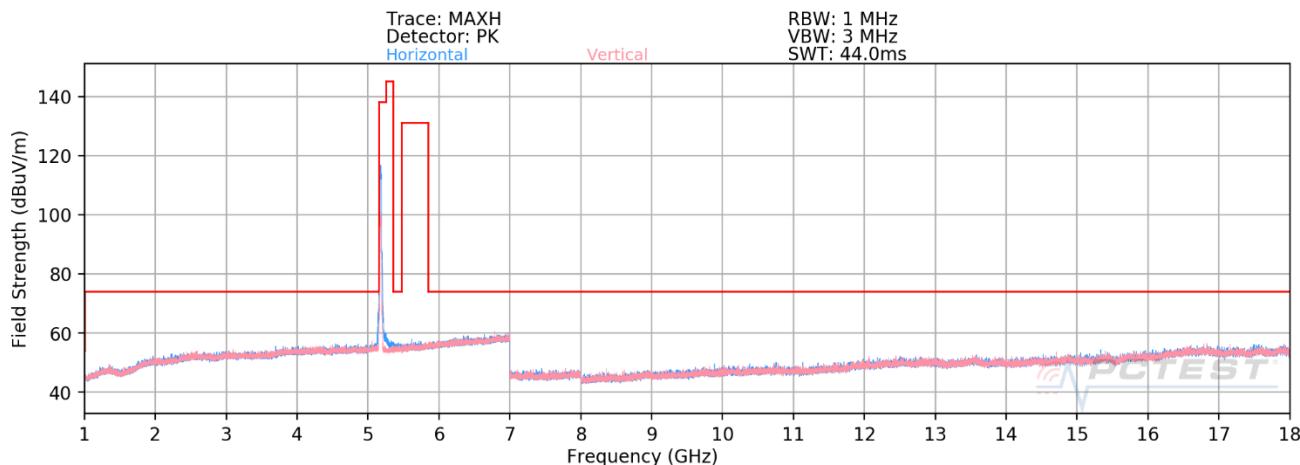
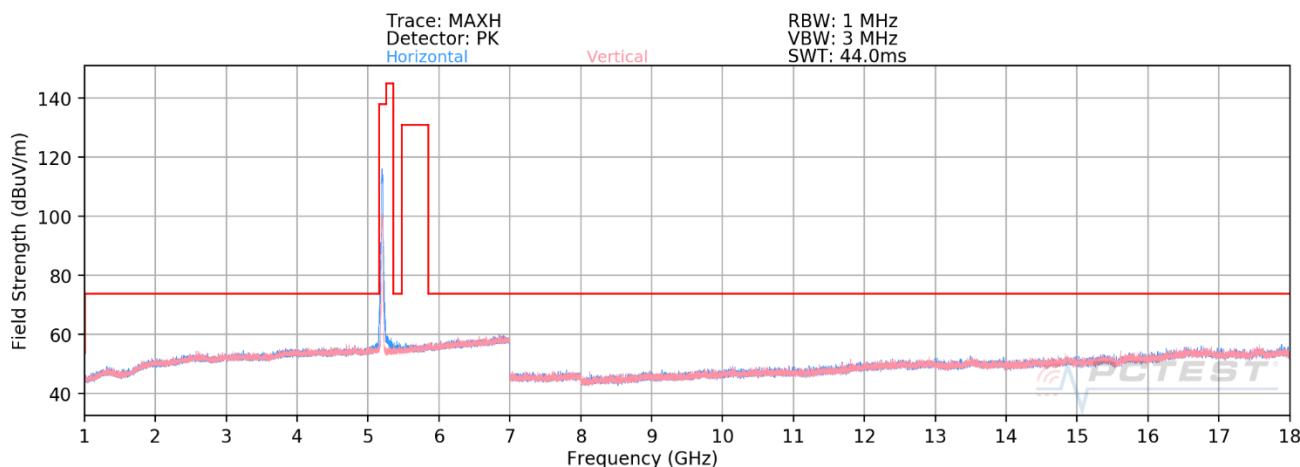
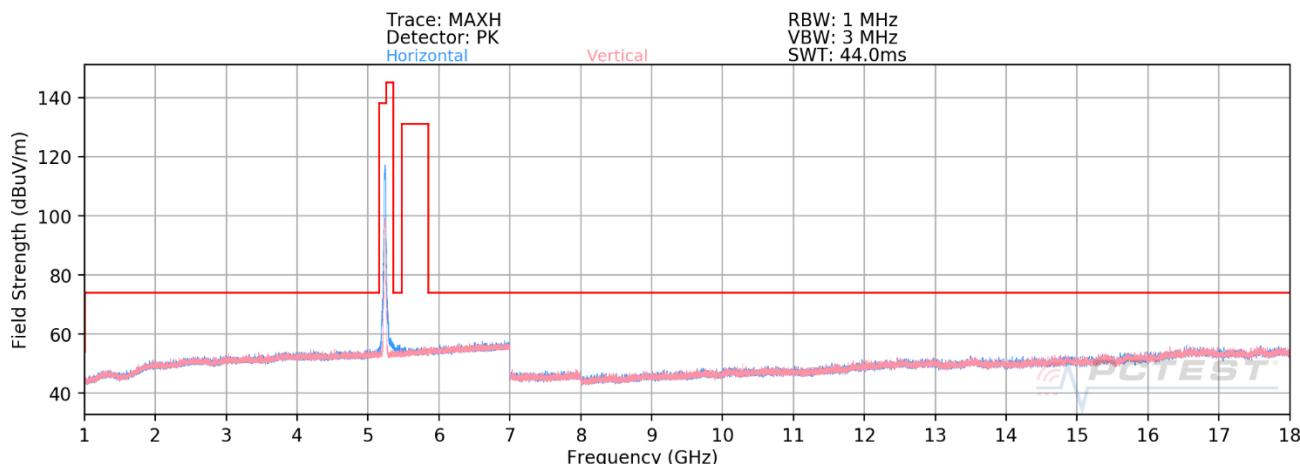
Table 7-93. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

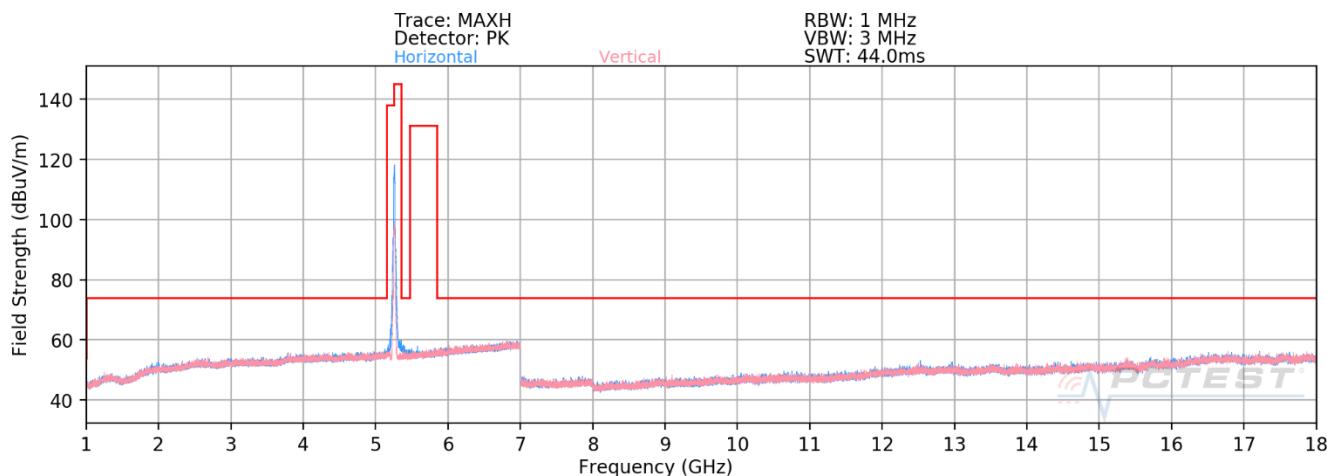
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11650.00	Average	H	-	-	-84.18	16.45	39.27	53.98	-14.71
11650.00	Peak	H	-	-	-72.50	16.45	50.95	73.98	-23.03
17475.00	Peak	H	-	-	-72.85	21.94	56.09	68.20	-12.11

Table 7-94. Radiated Measurements SISO CORE 0 (RU26)

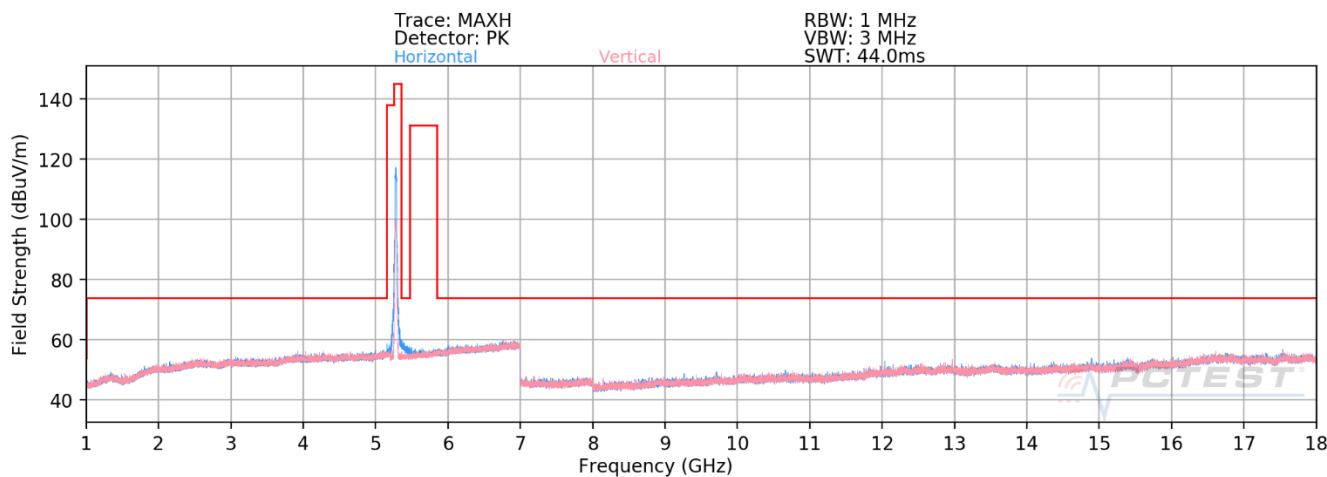
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					


Plot 7-733. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U1 Ch. 36 – RU242)

Plot 7-734. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U1 Ch. 40 – RU242)

Plot 7-735. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U1 Ch. 48 – RU242)

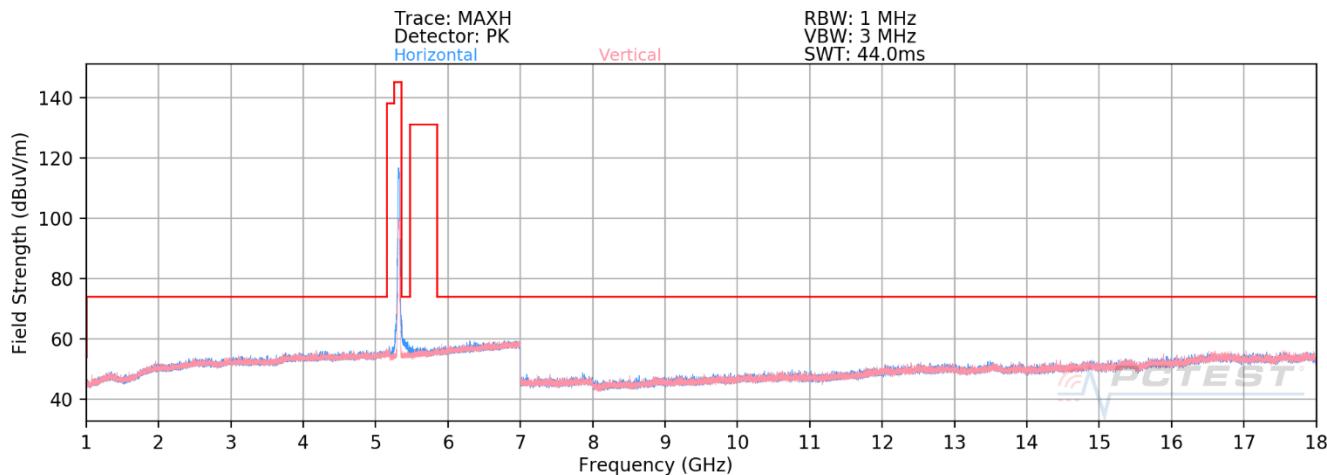
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 429 of 541



Plot 7-736. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2A Ch. 52 – RU242)

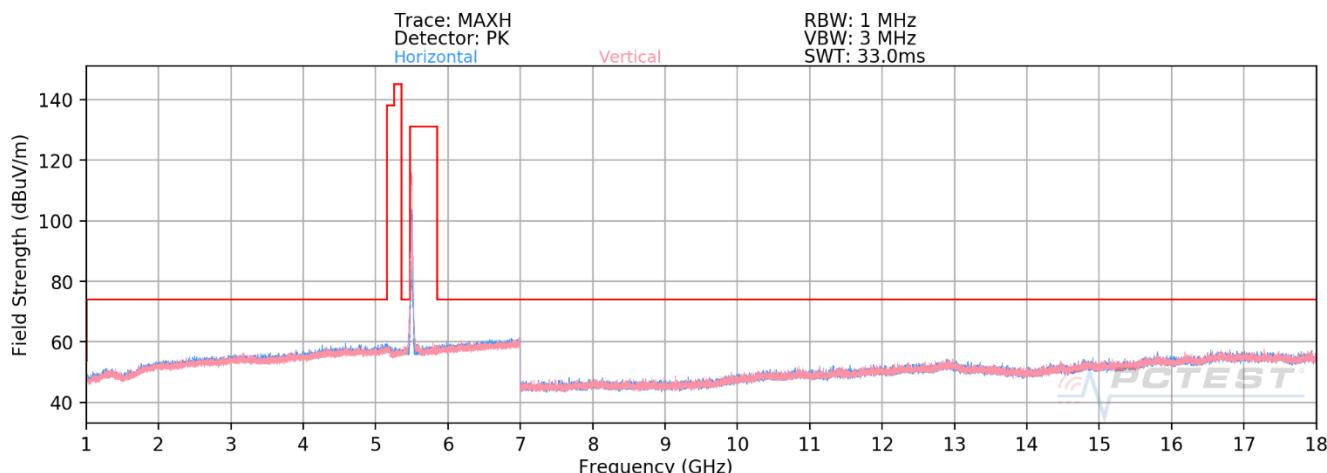


Plot 7-737. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2A Ch. 60 – RU242)

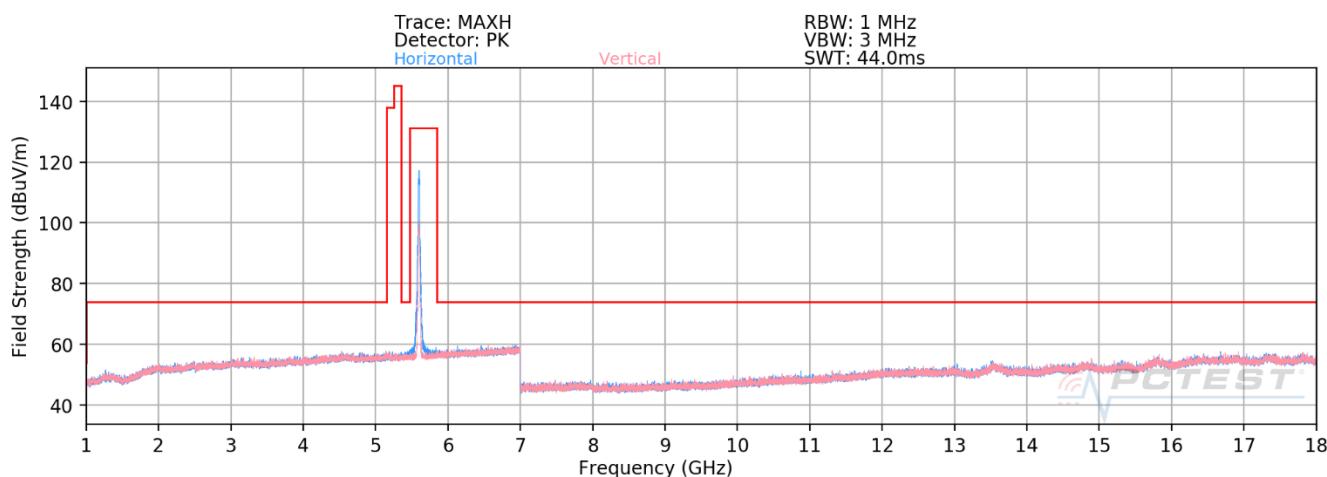


Plot 7-738. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2A Ch. 64 – RU242)

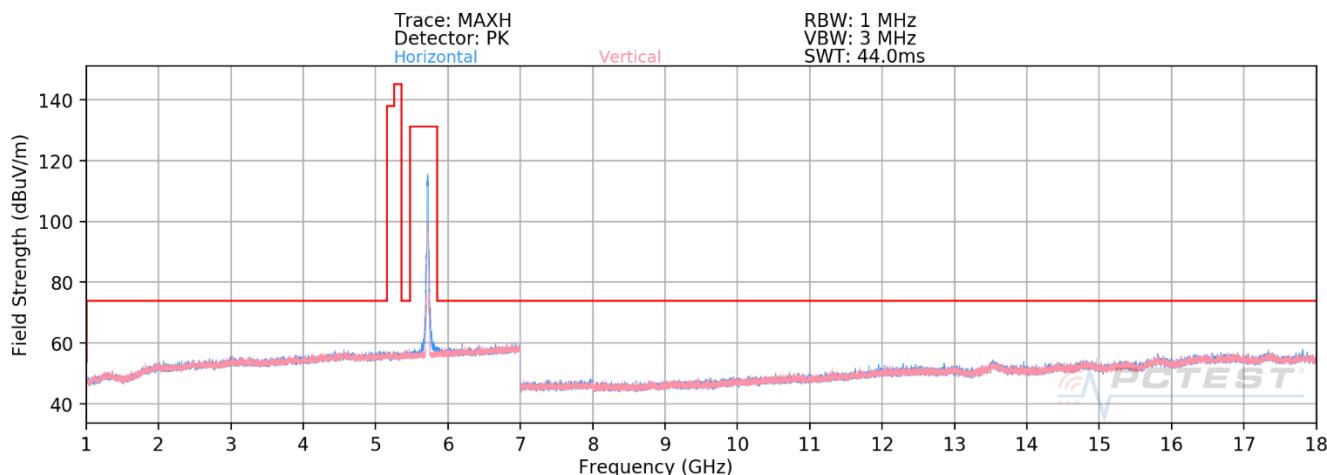
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 430 of 541



Plot 7-739. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2C Ch. 100 – RU242)

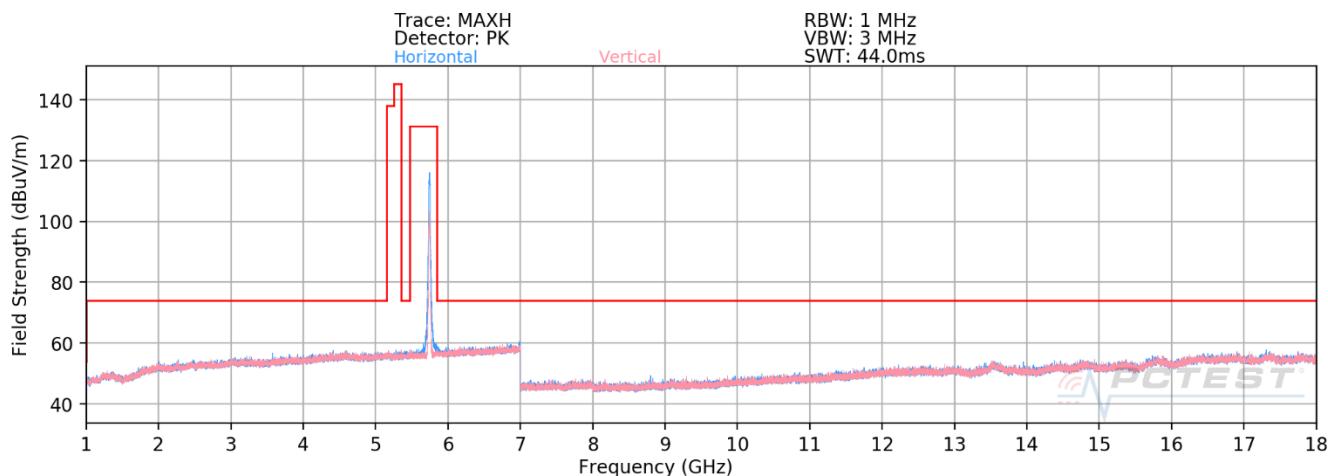


Plot 7-740. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2C Ch. 116 – RU242)

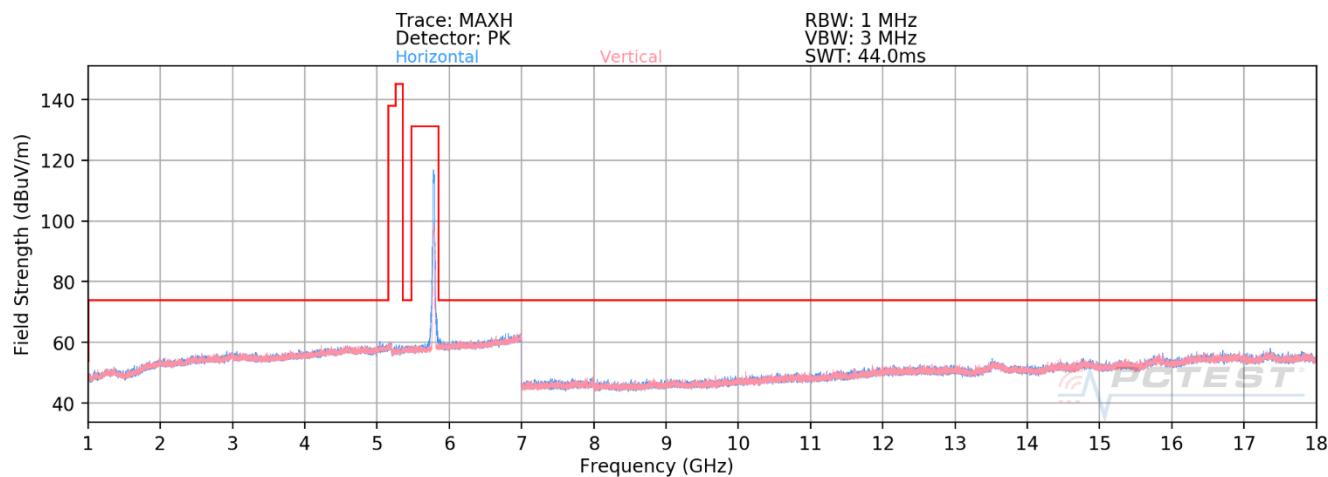


Plot 7-741. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U2C Ch. 144 – RU242)

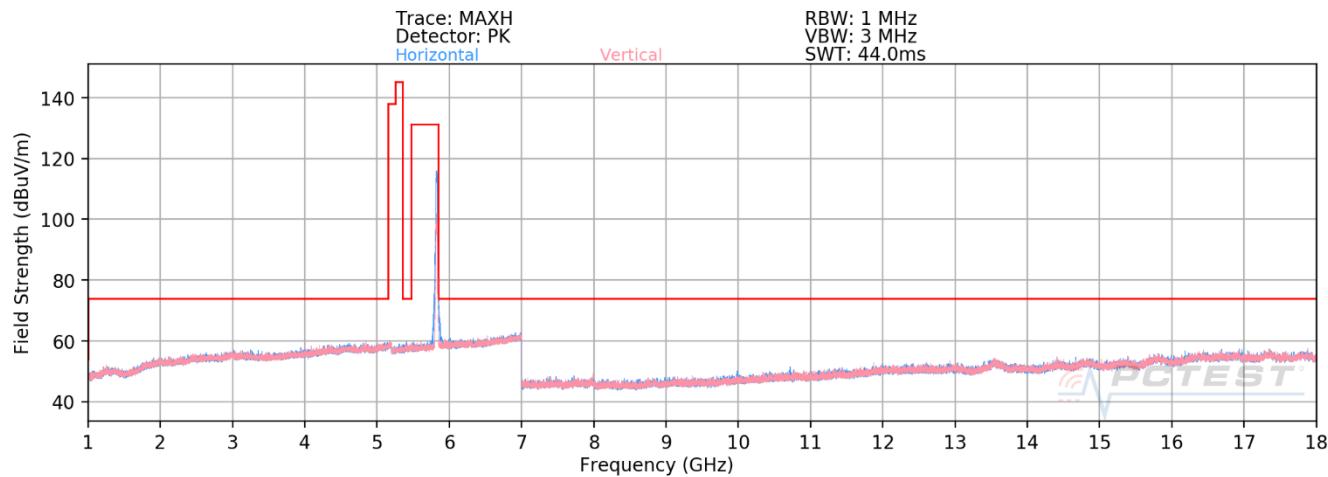
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 431 of 541



Plot 7-742. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U3 Ch. 149 – RU242)



Plot 7-743. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U3 Ch. 157 – RU242)



Plot 7-744. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax – U3 Ch. 165 – RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 432 of 541

SISO Core 0 Radiated Spurious Emission Measurements (RU242)

§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:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	H	-	-	-69.75	14.34	51.59	68.20	-16.61
15540.00	Average	H	-	-	-83.26	20.37	44.11	53.98	-9.87
15540.00	Peak	H	-	-	-72.12	20.37	55.25	73.98	-18.73

Table 7-95. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	H	-	-	-70.46	14.43	50.97	68.20	-17.23
15600.00	Average	H	-	-	-83.35	20.56	44.21	53.98	-9.77
15600.00	Peak	H	-	-	-71.83	20.56	55.73	73.98	-18.25

Table 7-96. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-70.53	14.63	51.08	68.20	-17.12
15720.00	Average	H	-	-	-85.09	21.60	43.51	53.98	-10.47
15720.00	Peak	H	-	-	-73.81	21.60	54.79	73.98	-19.19

Table 7-97. Radiated Measurements SISO CORE 0 (RU242)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	H	-	-	-70.35	14.85	51.50	68.20	-16.70
15780.00	Average	H	-	-	-84.33	21.89	44.56	53.98	-9.42
15780.00	Peak	H	-	-	-73.22	21.89	55.67	73.98	-18.31

Table 7-98. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5300MHz
 Channel: 60

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10600.00	Peak	H	-	-	-70.22	14.37	51.15	68.20	-17.05
15900.00	Average	H	-	-	-83.80	21.77	44.97	53.98	-9.01
15900.00	Peak	H	-	-	-73.10	21.77	55.67	73.98	-18.31

Table 7-99. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10640.00	Average	H	-	-	-81.73	14.85	40.12	53.98	-13.86
10640.00	Peak	H	-	-	-69.74	14.85	52.11	73.98	-21.87
15960.00	Average	H	-	-	-83.63	21.74	45.11	53.98	-8.87
15960.00	Peak	H	-	-	-72.71	21.74	56.03	73.98	-17.95

Table 7-100. Radiated Measurements SISO CORE 0 (RU242)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11000.00	Average	H	-	-	-82.89	15.88	39.99	53.98	-13.99
11000.00	Peak	H	-	-	-71.56	15.88	51.32	73.98	-22.66
16500.00	Peak	H	-	-	-71.64	21.60	56.96	68.20	-11.24

Table 7-101. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11160.00	Average	H	-	-	-84.17	16.51	39.34	53.98	-14.64
11160.00	Peak	H	-	-	-72.10	16.51	51.41	73.98	-22.57
16740.00	Peak	H	-	-	-73.05	22.16	56.11	68.20	-12.09

Table 7-102. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11440.00	Average	H	-	-	-84.36	16.74	39.38	53.98	-14.60
11440.00	Peak	H	-	-	-72.88	16.74	50.86	73.98	-23.12
17160.00	Peak	H	-	-	-73.62	21.60	54.98	68.20	-13.22

Table 7-103. Radiated Measurements SISO CORE 0 (RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11490.00	Average	H	-	-	-84.44	16.37	38.93	53.98	-15.05
11490.00	Peak	H	-	-	-72.87	16.37	50.50	73.98	-23.48
17235.00	Peak	H	-	-	-72.67	22.25	56.58	68.20	-11.62

Table 7-104. Radiated Measurements SISO CORE 0 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11570.00	Average	H	-	-	-84.26	17.01	39.75	53.98	-14.23
11570.00	Peak	H	-	-	-72.51	17.01	51.50	73.98	-22.48
17355.00	Peak	H	-	-	-73.44	22.61	56.17	68.20	-12.03

Table 7-105. Radiated Measurements SISO CORE 0 (RU242)

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

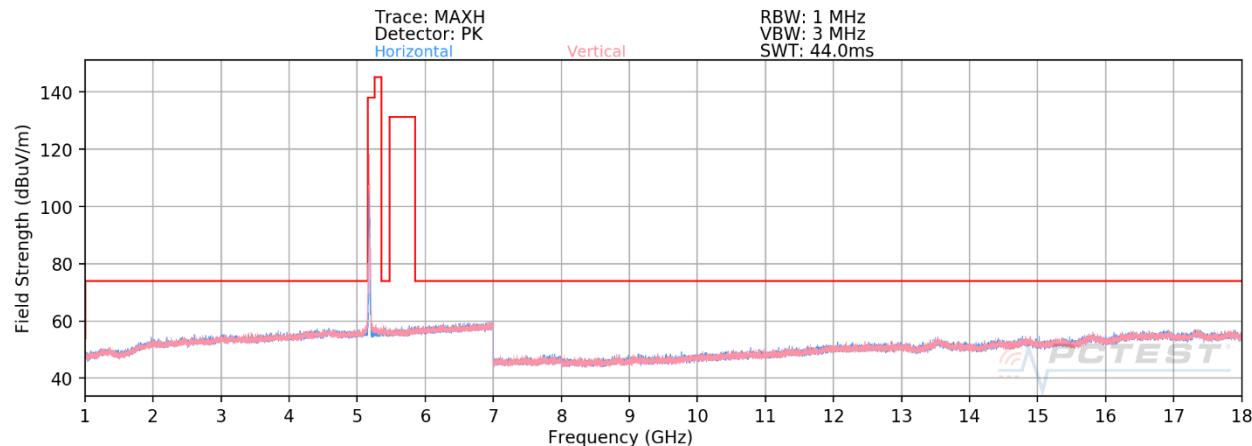
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11650.00	Average	H	-	-	-84.17	16.45	39.28	53.98	-14.70
11650.00	Peak	H	-	-	-72.19	16.45	51.26	73.98	-22.72
17475.00	Peak	H	-	-	-73.15	21.94	55.79	68.20	-12.41

Table 7-106. Radiated Measurements SISO CORE 0 (RU242)

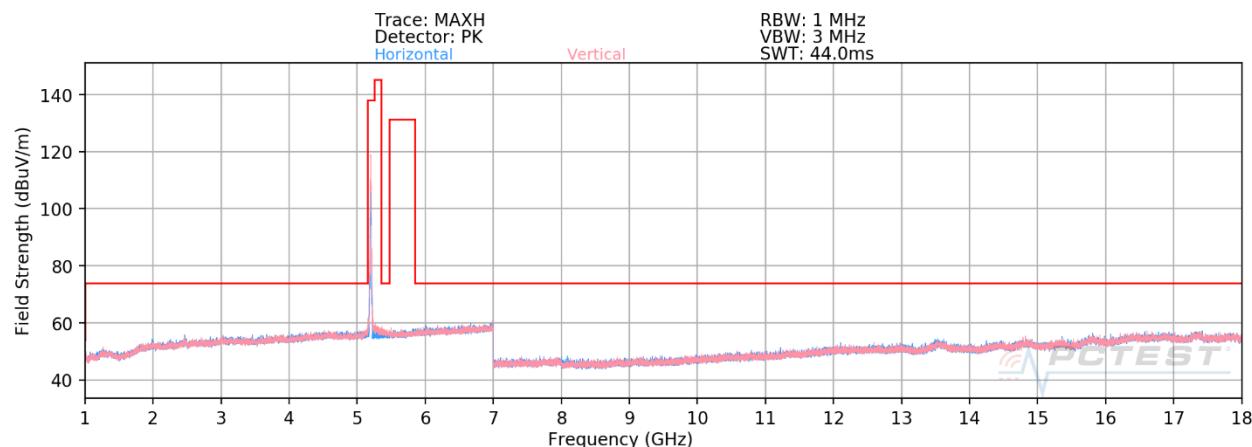
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

7.6.2 SISO Core 1 Radiated Spurious Emission Measurements

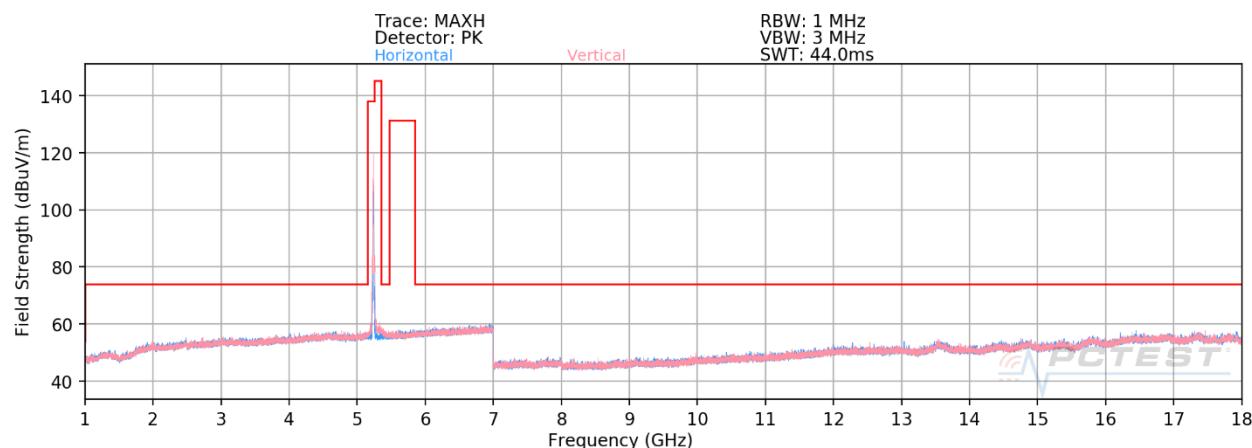
RU26



Plot 7-745. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U1 Ch. 36 – RU26)

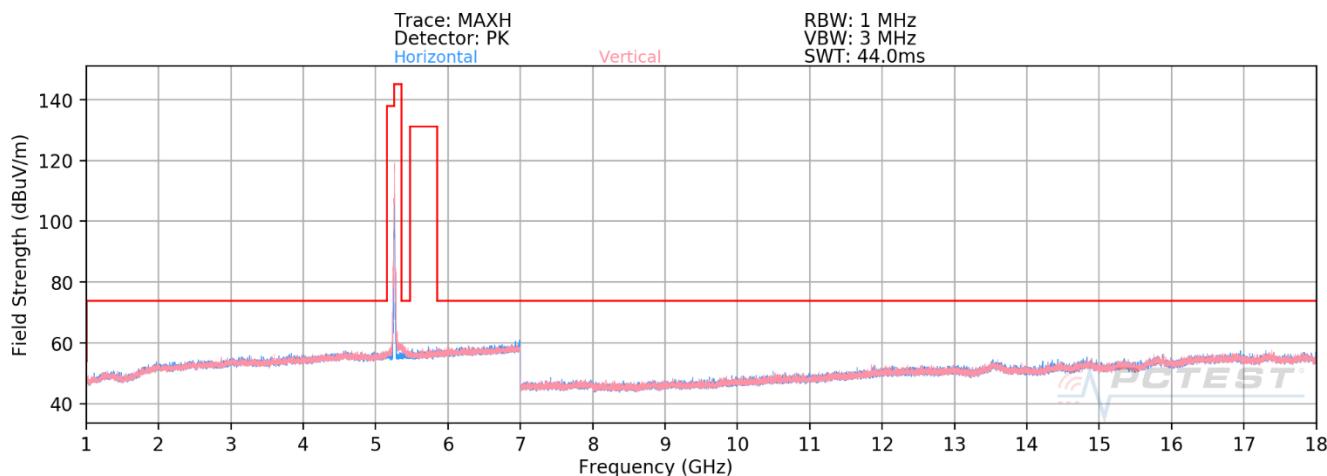


Plot 7-746. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U1 Ch. 40 – RU26)

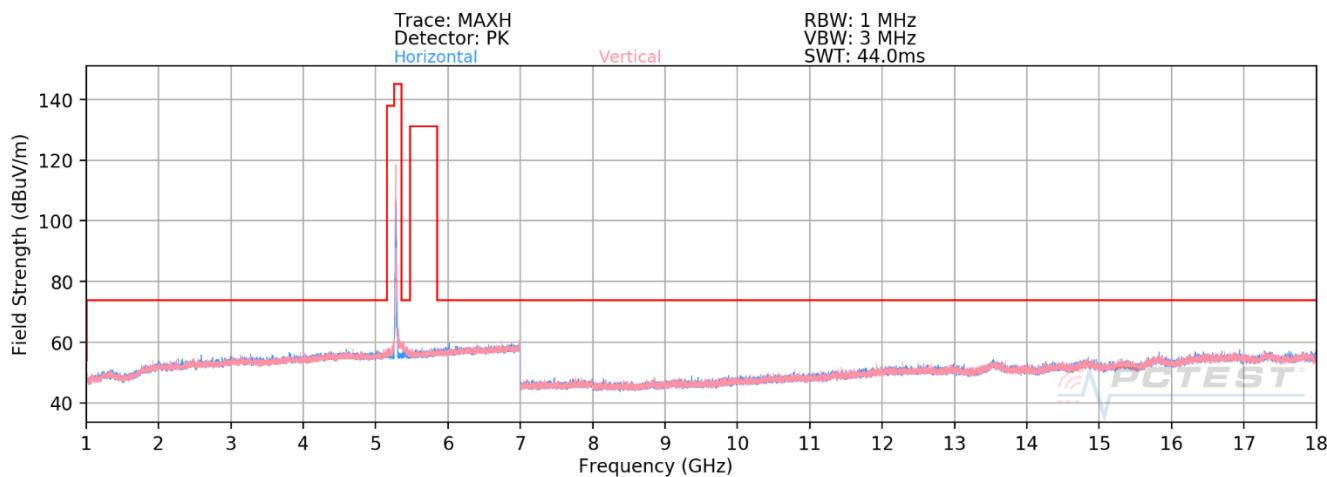


Plot 7-747. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U1 Ch. 48 – RU26)

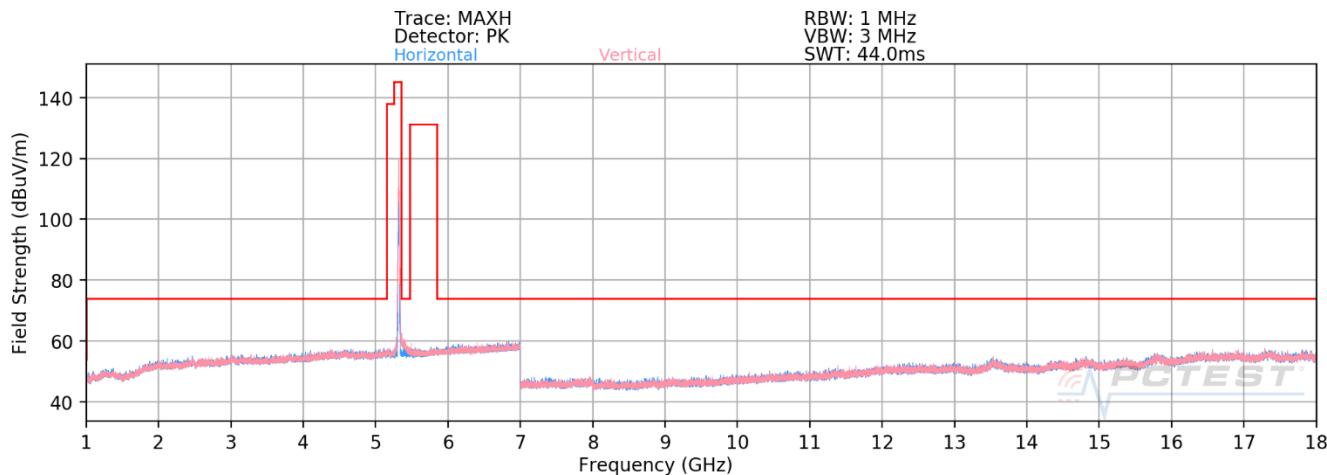
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 437 of 541



Plot 7-748. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2A Ch. 52 – RU26)

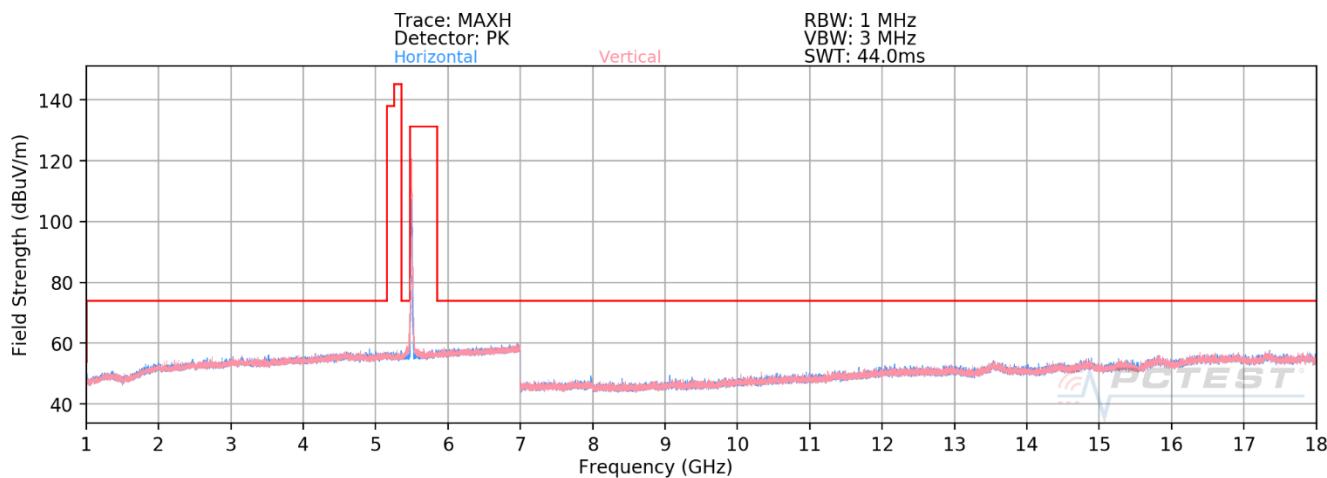


Plot 7-749. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2A Ch. 60 – RU26)

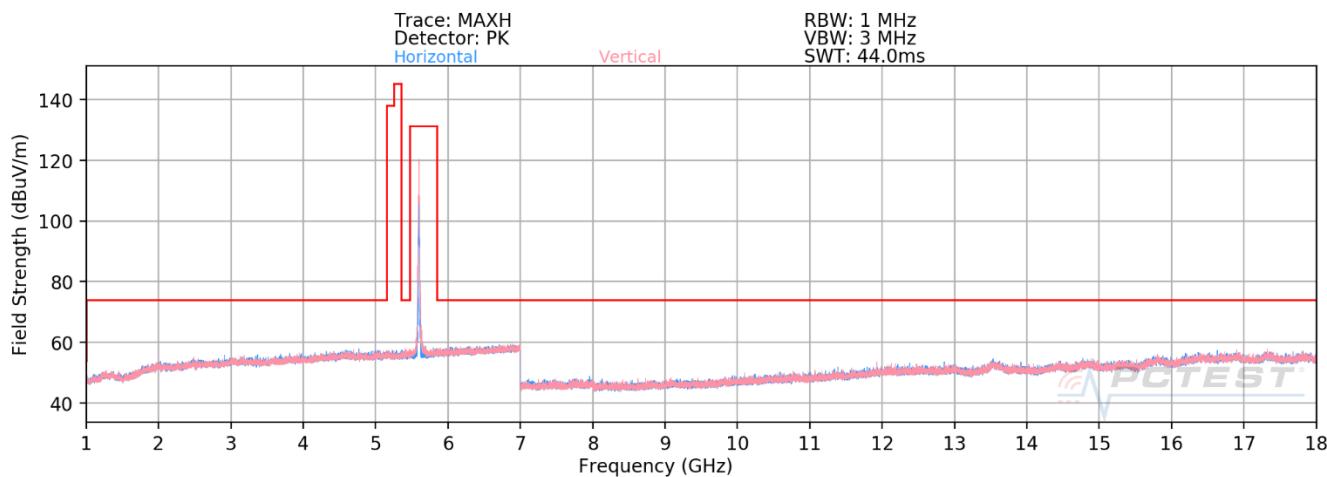


Plot 7-750. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2A Ch. 64 – RU26)

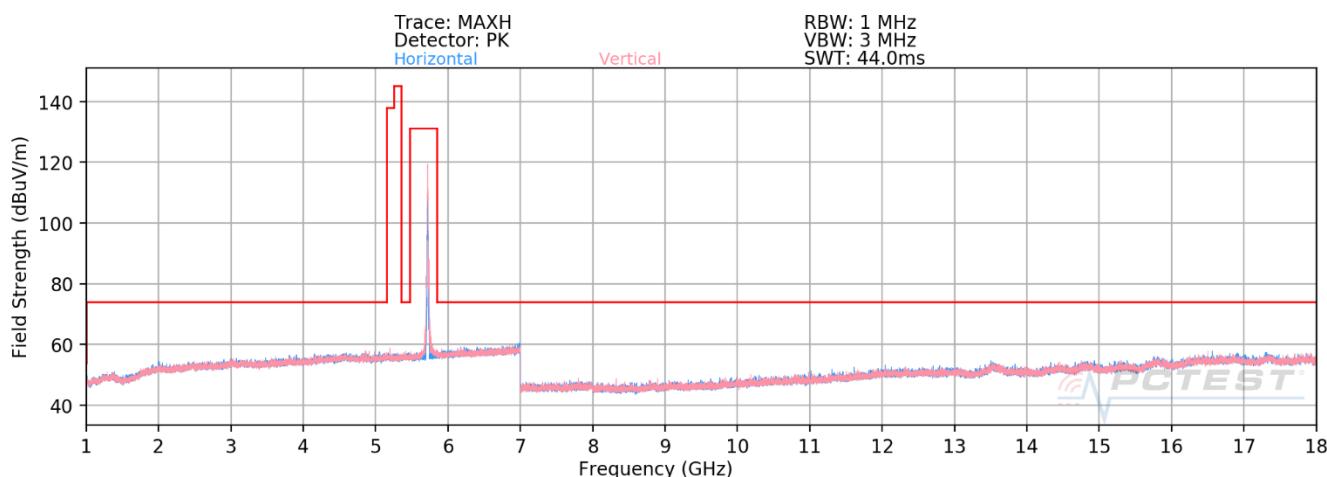
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 438 of 541



Plot 7-751. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2C Ch. 100 – RU26)

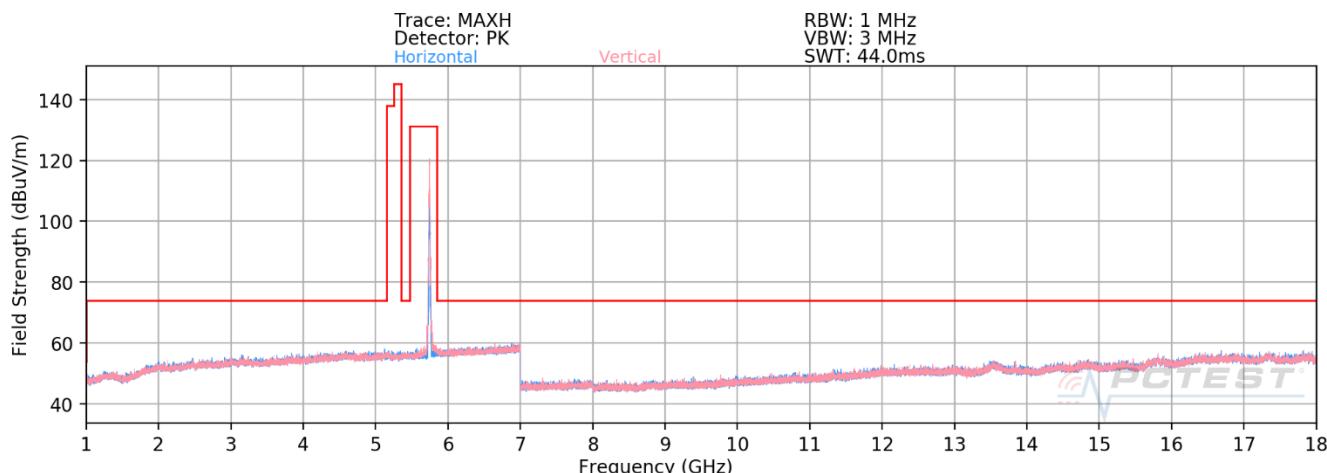


Plot 7-752. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2C Ch. 116 – RU26)

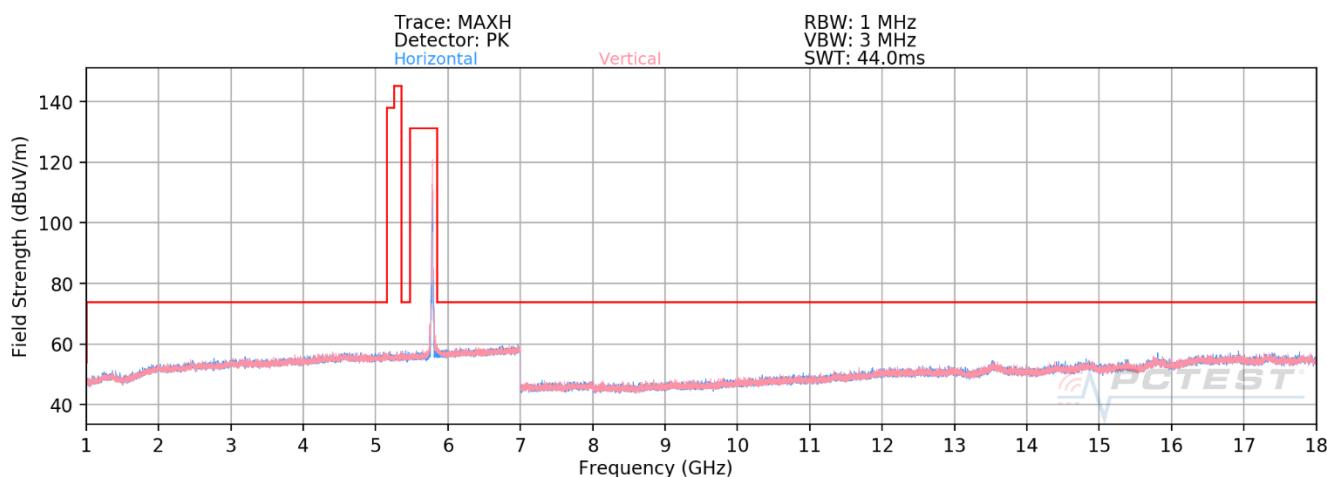


Plot 7-753. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2C Ch. 144 – RU26)

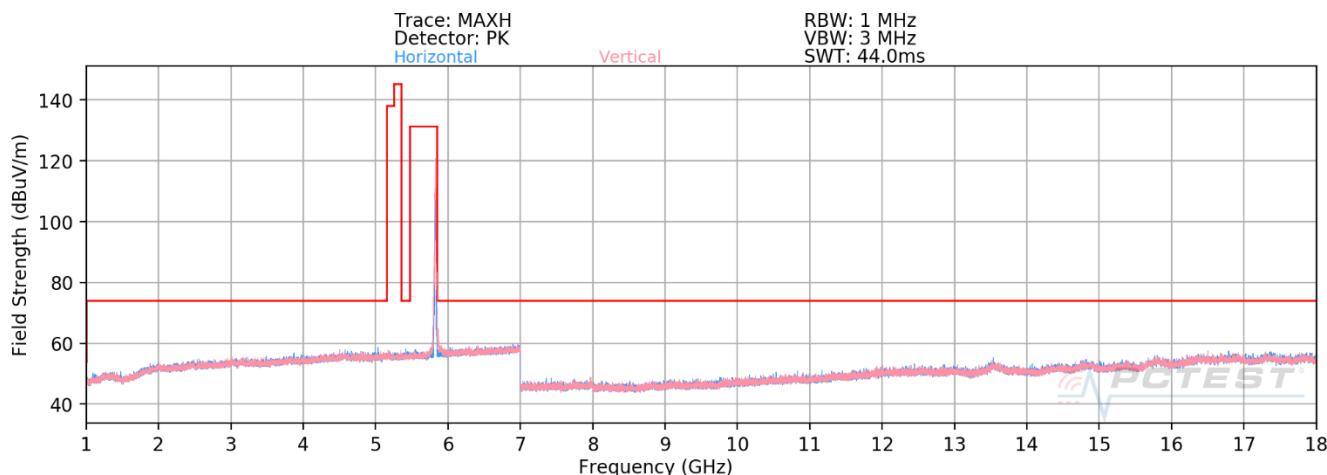
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 439 of 541



Plot 7-754. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U3 Ch. 149 – RU26)



Plot 7-755. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U3 Ch. 157 – RU26)



Plot 7-756. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U3 Ch. 165 – RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 440 of 541

SISO CORE 1 Radiated Spurious Emission Measurements (RU26)

§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:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	V	216	237	-71.25	14.34	50.09	68.20	-18.11
15540.00	Average	V	-	-	-85.46	20.37	41.91	53.98	-12.07
15540.00	Peak	V	-	-	-73.74	20.37	53.63	73.98	-20.35

Table 7-107. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	V	209	237	-69.79	14.43	51.64	68.20	-16.56
15600.00	Average	V	-	-	-85.19	20.56	42.37	53.98	-11.61
15600.00	Peak	V	-	-	-73.71	20.56	53.85	73.98	-20.13

Table 7-108. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	V	158	233	-69.41	14.63	52.22	68.20	-15.98
15720.00	Average	V	-	-	-85.82	21.60	42.78	53.98	-11.20
15720.00	Peak	V	-	-	-73.86	21.60	54.74	73.98	-19.24

Table 7-109. Radiated Measurements SISO CORE 1 (RU26)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	V	153	237	-69.48	14.85	52.37	68.20	-15.83
15780.00	Average	V	-	-	-86.08	21.89	42.81	53.98	-11.17
15780.00	Peak	V	-	-	-74.24	21.89	54.65	73.98	-19.33

Table 7-110. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	5300MHz
Channel:	60

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10600.00	Peak	V	139	239	-68.91	14.37	52.46	68.20	-15.74
15900.00	Average	V	-	-	-85.92	21.77	42.85	53.98	-11.13
15900.00	Peak	V	-	-	-74.21	21.77	54.56	73.98	-19.42

Table 7-111. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10640.00	Average	V	149	236	-81.75	14.85	40.10	53.98	-13.88
10640.00	Peak	V	149	236	-70.39	14.85	51.46	73.98	-22.52
15960.00	Average	V	-	-	-85.33	21.74	43.41	53.98	-10.57
15960.00	Peak	V	-	-	-73.92	21.74	54.82	73.98	-19.16

Table 7-112. Radiated Measurements SISO CORE 1 (RU26)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 442 of 541

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11000.00	Average	V	-	-	-84.39	15.88	38.49	53.98	-15.49
11000.00	Peak	V	-	-	-72.12	15.88	50.76	73.98	-23.22
16500.00	Peak	V	-	-	-73.02	21.60	55.58	68.20	-12.62

Table 7-113. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11160.00	Average	V	-	-	-84.48	16.51	39.03	53.98	-14.95
11160.00	Peak	V	-	-	-72.78	16.51	50.73	73.98	-23.25
16740.00	Peak	V	-	-	-73.65	22.16	55.51	68.20	-12.69

Table 7-114. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11440.00	Average	V	-	-	-84.46	16.74	39.28	53.98	-14.70
11440.00	Peak	V	-	-	-72.73	16.74	51.01	73.98	-22.97
17160.00	Peak	V	-	-	-73.45	21.60	55.15	68.20	-13.05

Table 7-115. Radiated Measurements SISO CORE 1 (RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11490.00	Average	V	-	-	-84.56	16.37	38.81	53.98	-15.17
11490.00	Peak	V	-	-	-72.70	16.37	50.67	73.98	-23.31
17235.00	Peak	V	-	-	-73.27	22.25	55.98	68.20	-12.22

Table 7-116. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11570.00	Average	V	-	-	-84.04	17.01	39.97	53.98	-14.01
11570.00	Peak	V	-	-	-73.10	17.01	50.91	73.98	-23.07
17355.00	Peak	V	-	-	-72.85	22.61	56.76	68.20	-11.44

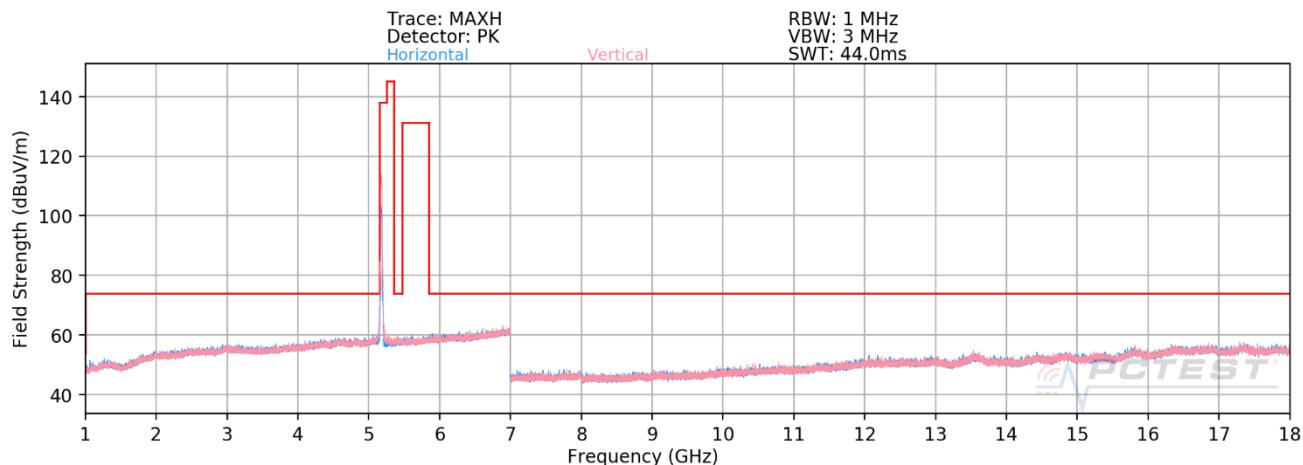
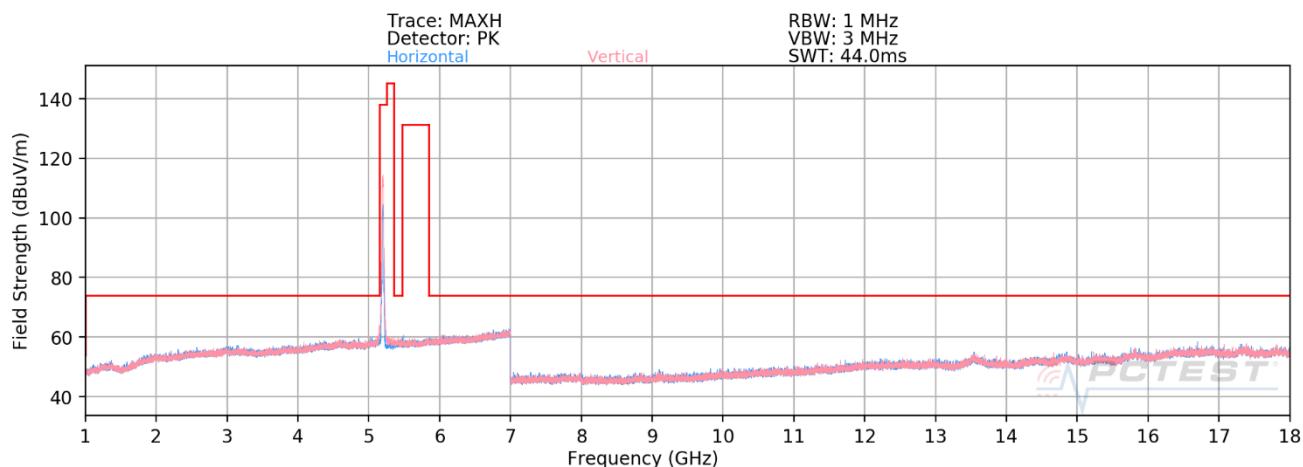
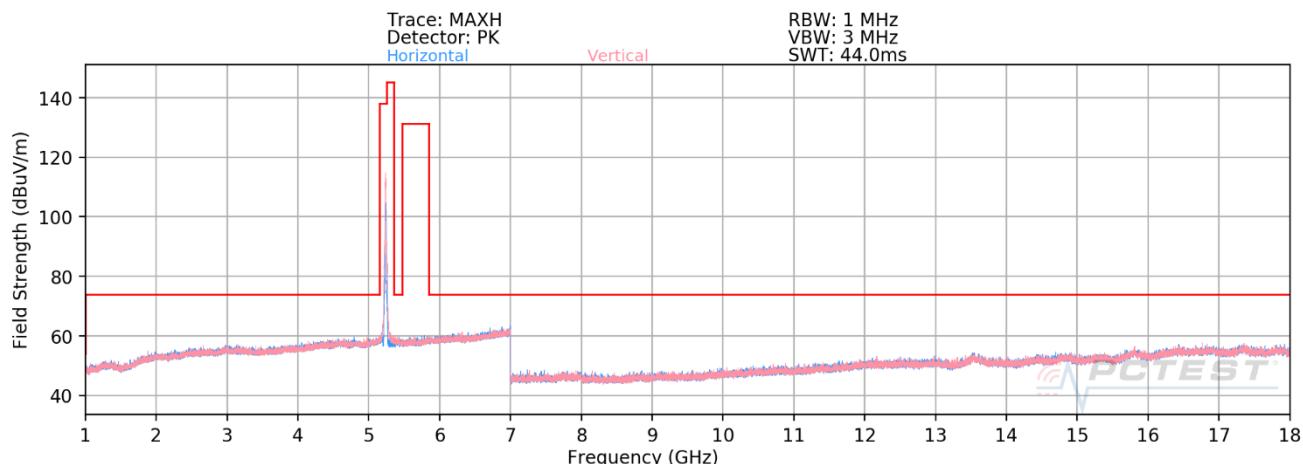
Table 7-117. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

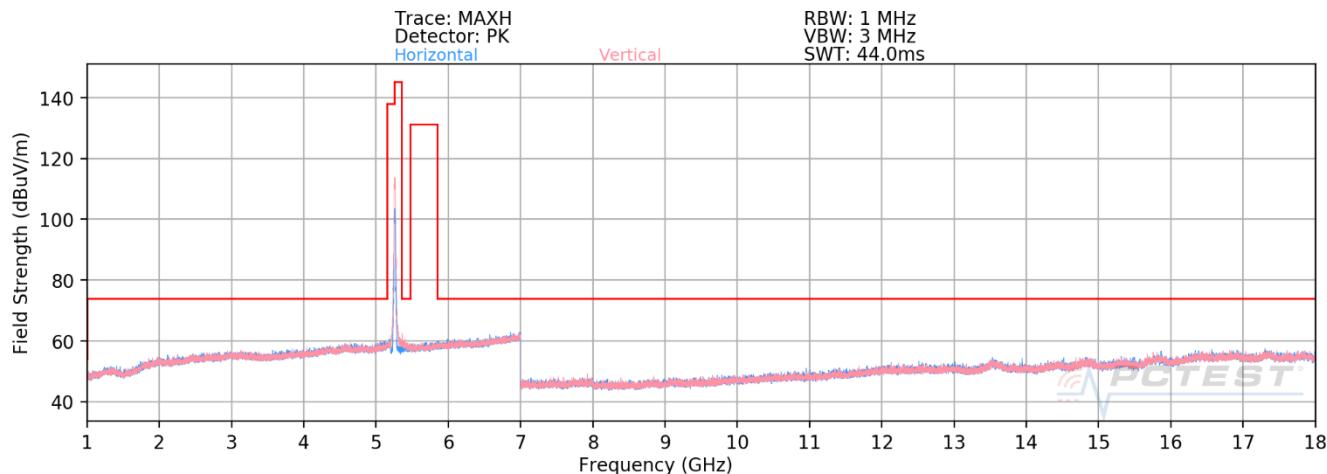
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11650.00	Average	V	-	-	-84.35	16.45	39.10	53.98	-14.88
11650.00	Peak	V	-	-	-72.44	16.45	51.01	73.98	-22.97
17475.00	Peak	V	-	-	-72.81	21.94	56.13	68.20	-12.07

Table 7-118. Radiated Measurements SISO CORE 1 (RU26)

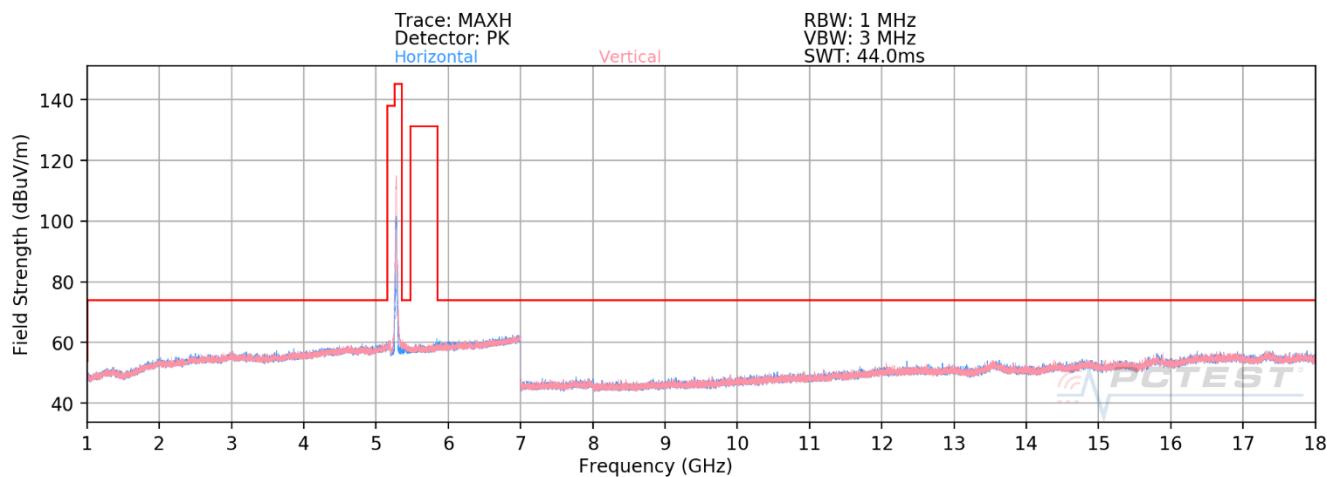
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

RU242

Plot 7-757. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U1 Ch. 36 – RU242)

Plot 7-758. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U1 Ch. 40 – RU242)

Plot 7-759. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U1 Ch. 48 – RU242)

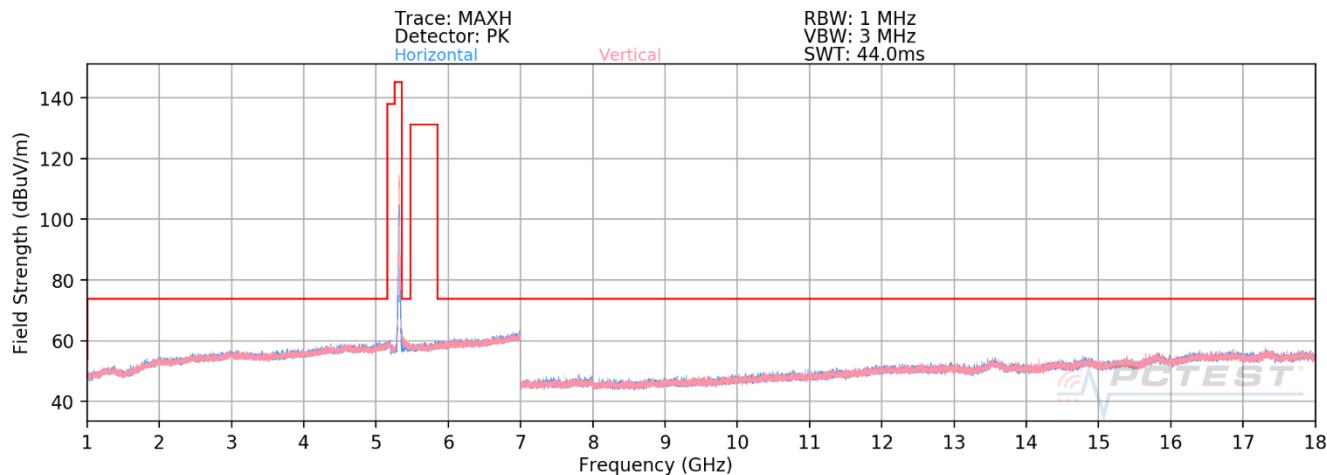
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 445 of 541	



Plot 7-760. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2A Ch. 52 – RU242)

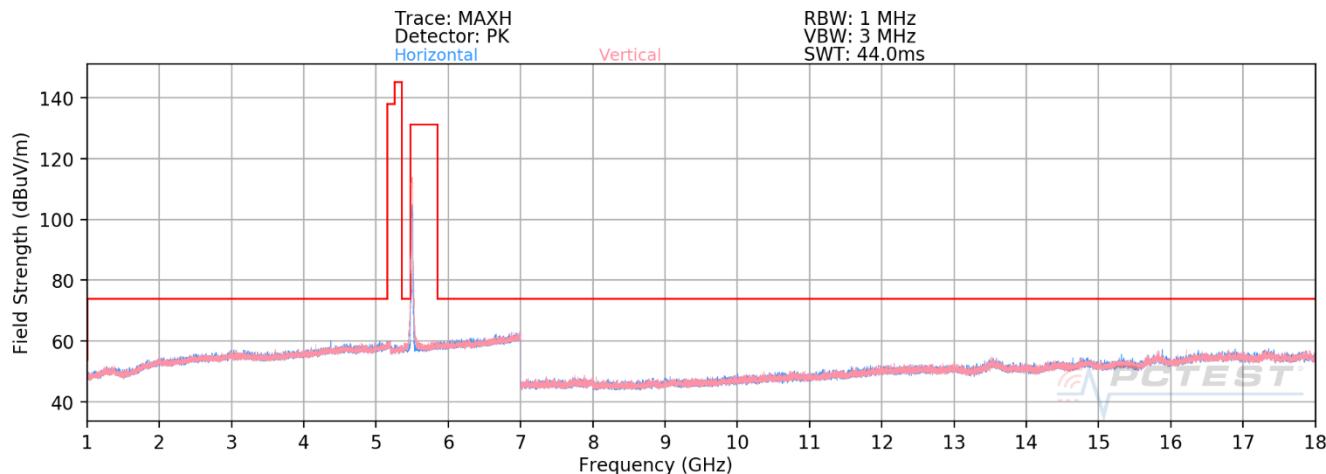


Plot 7-761. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2A Ch. 60 – RU242)

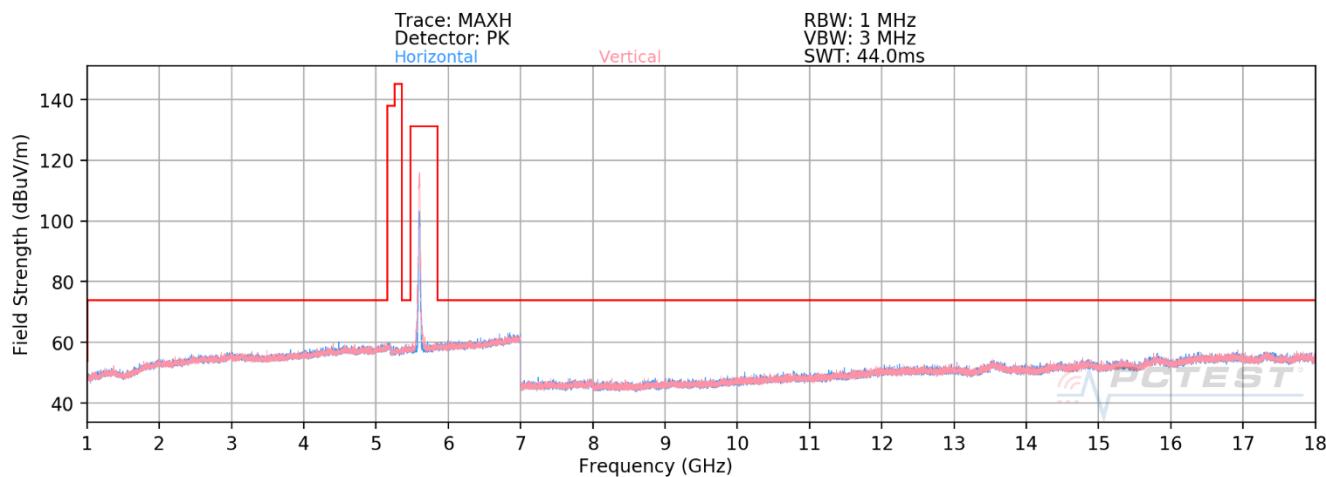


Plot 7-762. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2A Ch. 64 – RU242)

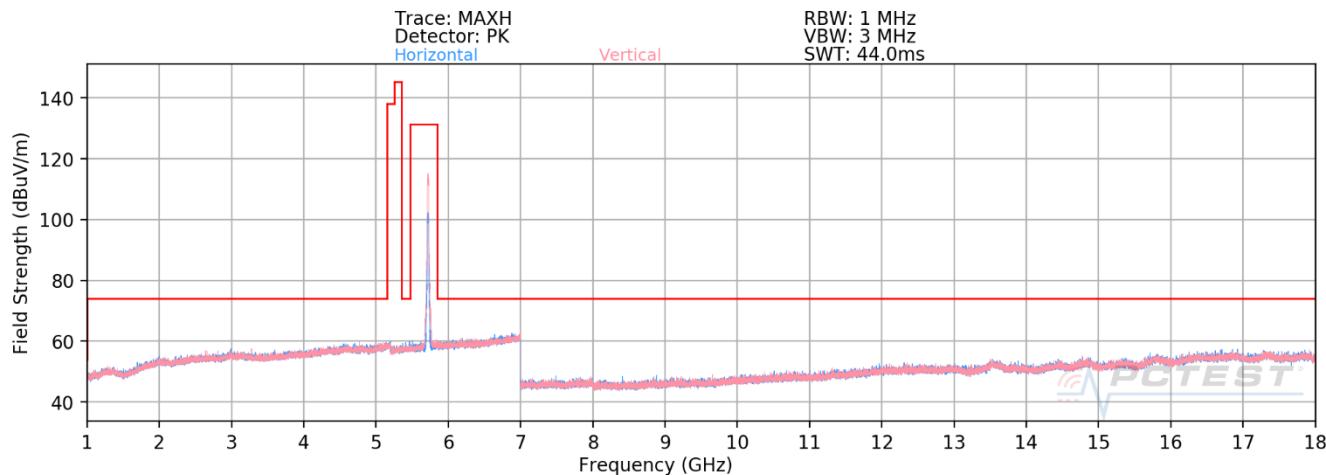
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 446 of 541



Plot 7-763. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2C Ch. 100 – RU242)

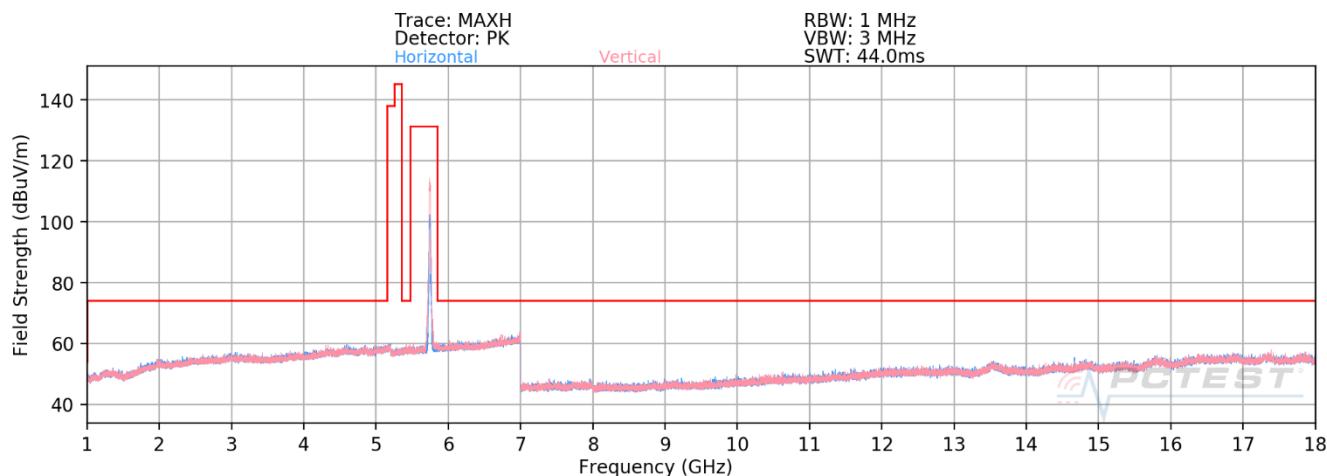


Plot 7-764. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2C Ch. 116 – RU242)

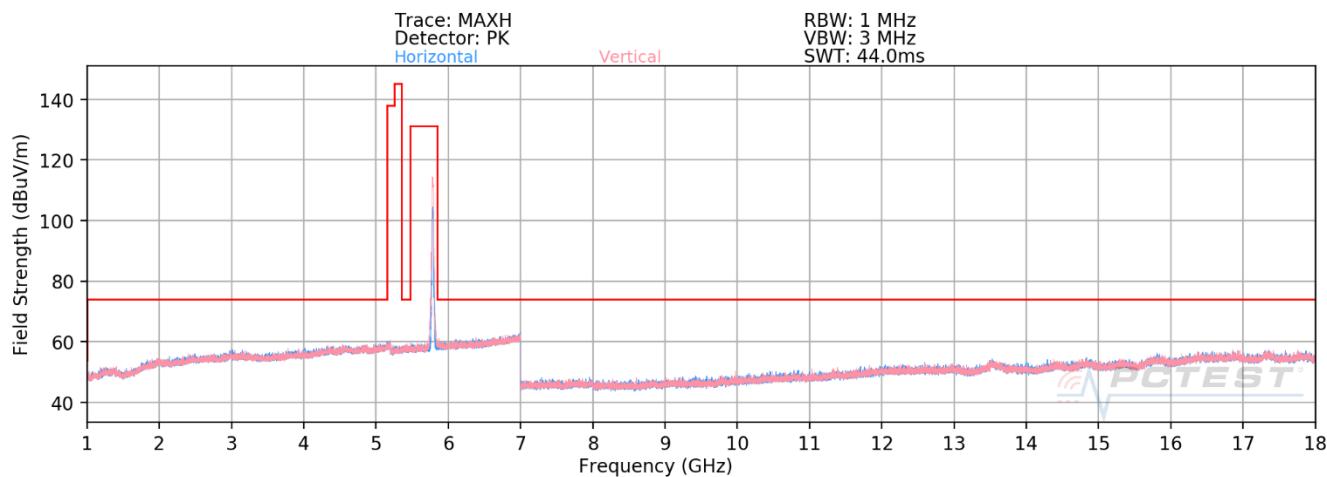


Plot 7-765. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U2C Ch. 144 – RU242)

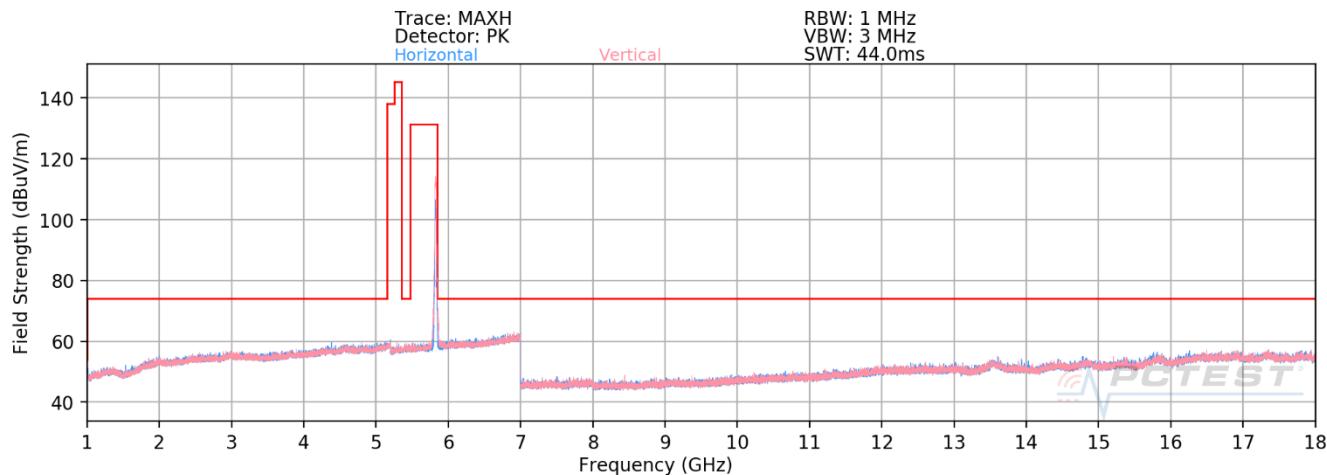
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 447 of 541



Plot 7-766. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U3 Ch. 149 – RU242)



Plot 7-767. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U3 Ch. 157 – RU242)



Plot 7-768. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax – U3 Ch. 165 – RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 448 of 541



SISO CORE 1 Radiated Spurious Emission Measurements (RU242)

§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:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	V	-	-	-72.71	14.34	48.63	68.20	-19.57
15540.00	Average	V	-	-	-85.19	20.37	42.18	53.98	-11.80
15540.00	Peak	V	-	-	-73.90	20.37	53.47	73.98	-20.51

Table 7-119. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	V	-	-	-72.00	14.43	49.43	68.20	-18.77
15600.00	Average	V	-	-	-85.11	20.56	42.45	53.98	-11.53
15600.00	Peak	V	-	-	-73.39	20.56	54.17	73.98	-19.81

Table 7-120. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	V	-	-	-71.96	14.63	49.67	68.20	-18.53
15720.00	Average	V	-	-	-85.69	21.60	42.91	53.98	-11.07
15720.00	Peak	V	-	-	-74.27	21.60	54.33	73.98	-19.65

Table 7-121. Radiated Measurements SISO CORE 1 (RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 449 of 541

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	V	-	-	-72.37	14.85	49.48	68.20	-18.72
15780.00	Average	V	-	-	-86.02	21.89	42.87	53.98	-11.11
15780.00	Peak	V	-	-	-74.49	21.89	54.40	73.98	-19.58

Table 7-122. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5300MHz
 Channel: 60

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10600.00	Peak	V	-	-	-72.23	14.37	49.14	68.20	-19.06
15900.00	Average	V	-	-	-86.04	21.77	42.73	53.98	-11.25
15900.00	Peak	V	-	-	-74.49	21.77	54.28	73.98	-19.70

Table 7-123. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10640.00	Average	V	-	-	-83.67	14.85	38.18	53.98	-15.80
10640.00	Peak	V	-	-	-71.57	14.85	50.28	73.98	-23.70
15960.00	Average	V	-	-	-85.53	21.74	43.21	53.98	-10.77
15960.00	Peak	V	-	-	-74.18	21.74	54.56	73.98	-19.42

Table 7-124. Radiated Measurements SISO CORE 1 (RU242)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11000.00	Average	V	-	-	-84.18	15.88	38.70	53.98	-15.28
11000.00	Peak	V	-	-	-72.87	15.88	50.01	73.98	-23.97
16500.00	Peak	V	-	-	-73.04	21.60	55.56	68.20	-12.64

Table 7-125. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11160.00	Average	V	-	-	-84.52	16.51	38.99	53.98	-14.99
11160.00	Peak	V	-	-	-72.86	16.51	50.65	73.98	-23.33
16740.00	Peak	V	-	-	-73.15	22.16	56.01	68.20	-12.19

Table 7-126. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11440.00	Average	H	-	-	-84.62	16.74	39.12	53.98	-14.86
11440.00	Peak	H	-	-	-73.50	16.74	50.24	73.98	-23.74
17160.00	Peak	H	-	-	-73.68	21.60	54.92	68.20	-13.28

Table 7-127. Radiated Measurements SISO CORE 1 (RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11490.00	Average	V	-	-	-84.46	16.37	38.91	53.98	-15.07
11490.00	Peak	V	-	-	-73.10	16.37	50.27	73.98	-23.71
17235.00	Peak	V	-	-	-73.54	22.25	55.71	68.20	-12.49

Table 7-128. Radiated Measurements SISO CORE 1 (RU242)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11570.00	Average	V	-	-	-84.27	17.01	39.74	53.98	-14.24
11570.00	Peak	V	-	-	-73.05	17.01	50.96	73.98	-23.02
17355.00	Peak	V	-	-	-72.84	22.61	56.77	68.20	-11.43

Table 7-129. Radiated Measurements SISO CORE 1 (RU242)

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

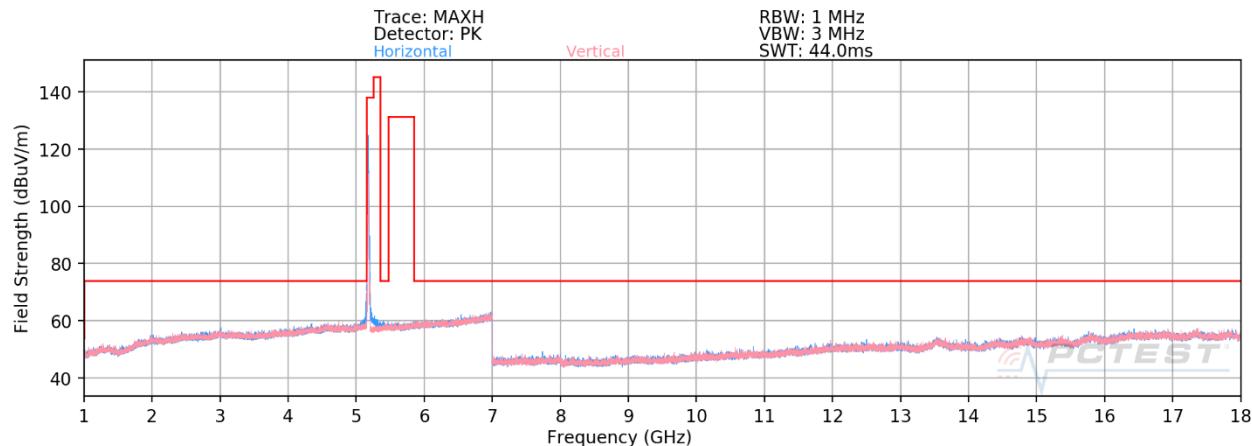
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11650.00	Average	V	-	-	-84.29	16.45	39.16	53.98	-14.82
11650.00	Peak	V	-	-	-72.56	16.45	50.89	73.98	-23.09
17475.00	Peak	V	-	-	-73.11	21.94	55.83	68.20	-12.37

Table 7-130. Radiated Measurements SISO CORE 1 (RU242)

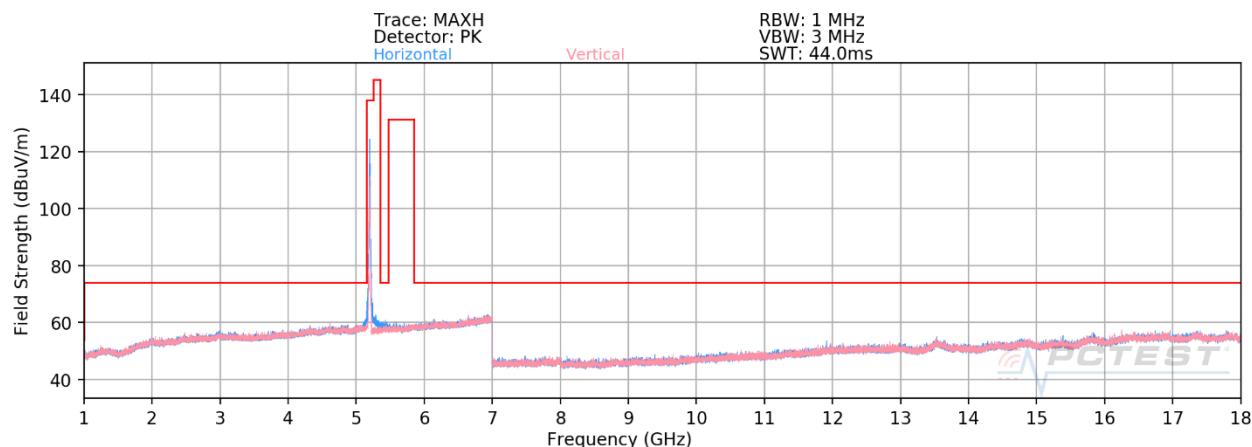
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device					

7.6.3 CDD/SDM Radiated Spurious Emission Measurements

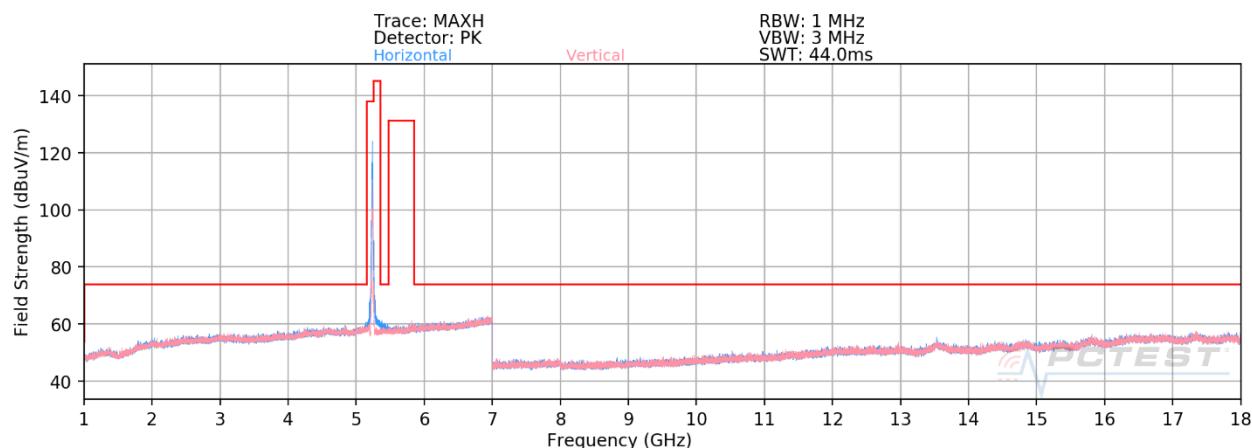
RU26



Plot 7-769. Radiated Spurious Plot above 1GHz CDD (802.11ax – U1 Ch. 36 – RU26)

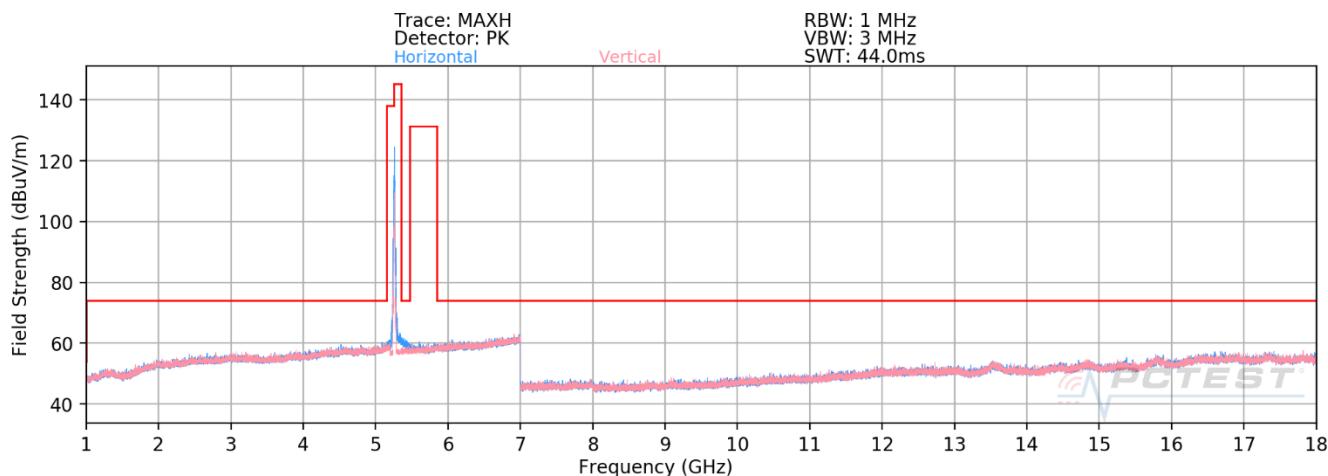


Plot 7-770. Radiated Spurious Plot above 1GHz CDD (802.11ax – U1 Ch. 40 – RU26)

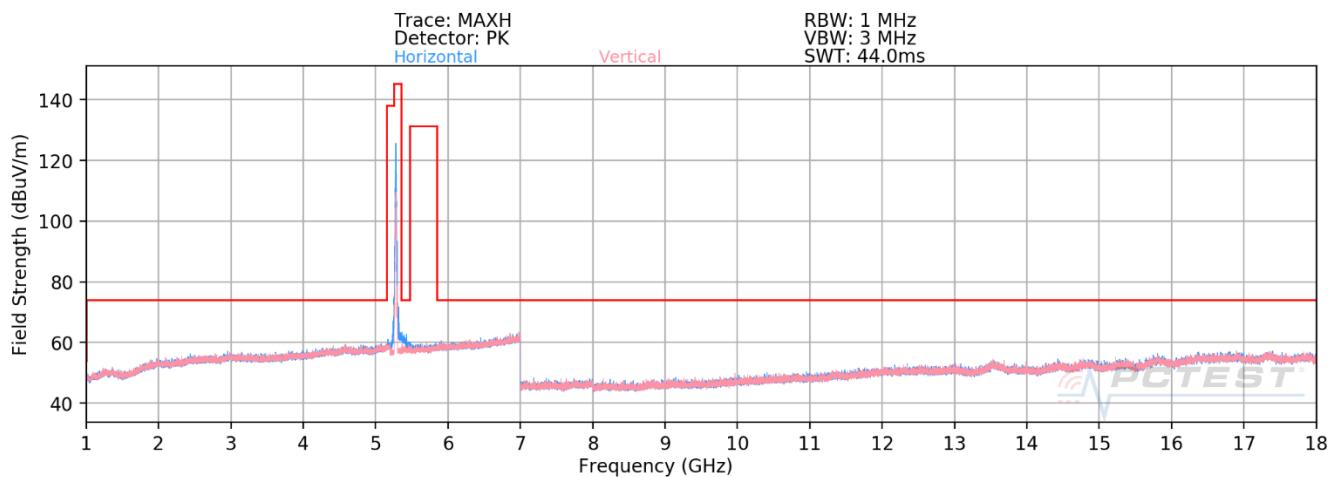


Plot 7-771. Radiated Spurious Plot above 1GHz CDD (802.11ax – U1 Ch. 48 – RU26)

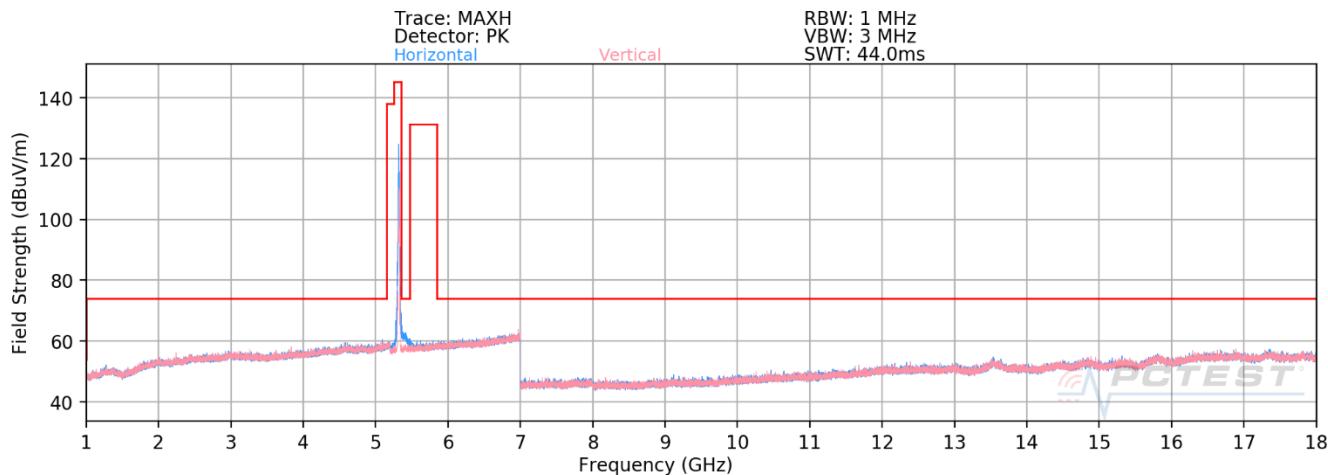
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 453 of 541



Plot 7-772. Radiated Spurious Plot above 1GHz CDD (802.11ax – U2A Ch. 52 – RU26)



Plot 7-773. Radiated Spurious Plot above 1GHz CDD (802.11ax – U2A Ch. 60 – RU26)



Plot 7-774. Radiated Spurious Plot above 1GHz CDD (802.11ax – U2A Ch. 64 – RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-13.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 454 of 541