

7.6 Radiated Spurious Emission Measurements – Above 1GHz

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

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-35 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 7-35. 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.

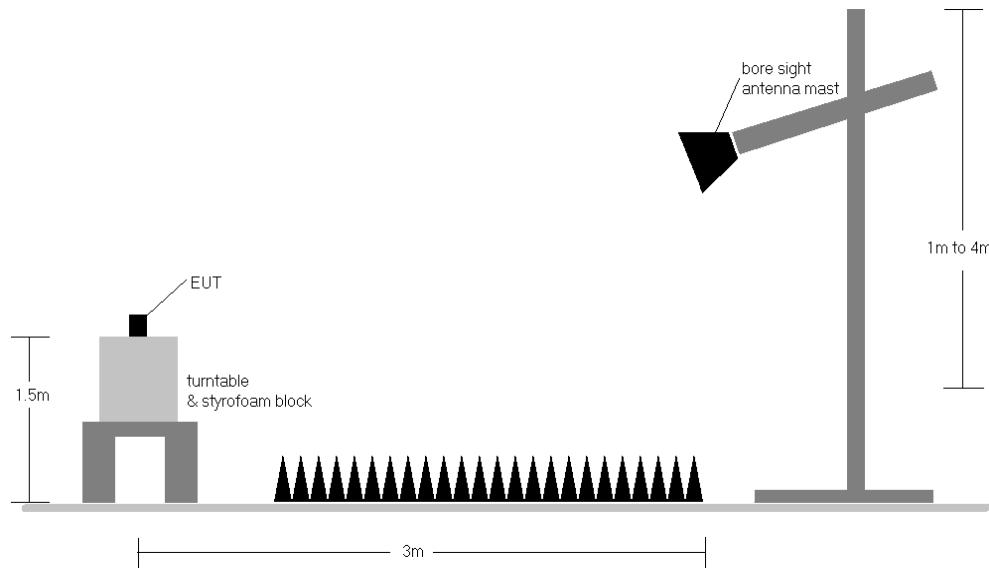


Figure 7-5. Test Instrument & Measurement Setup

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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 7-35.
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 7-35. 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. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [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]

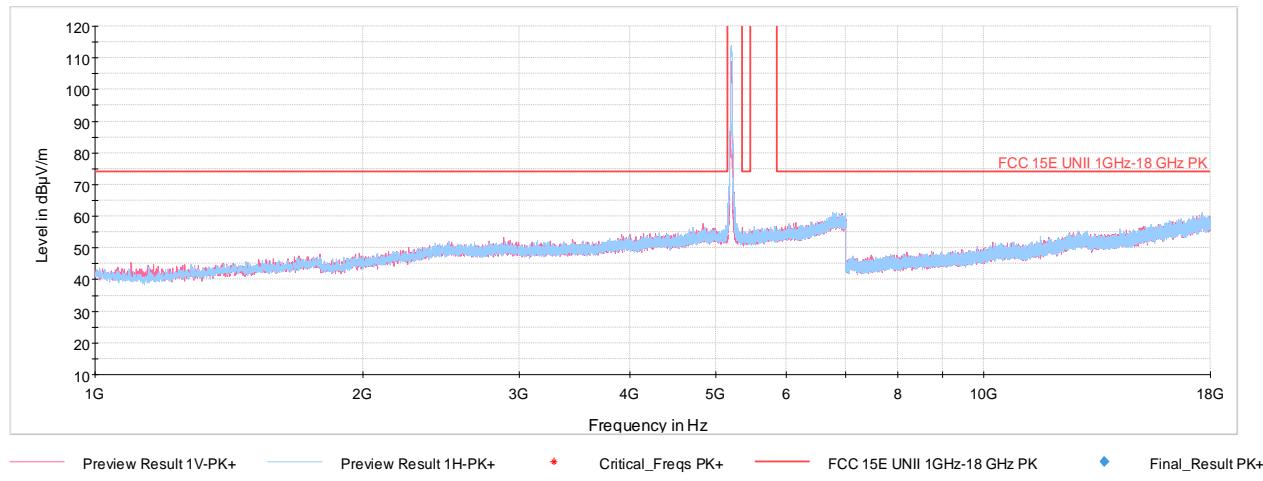
Radiated Band Edge Measurement Offset

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

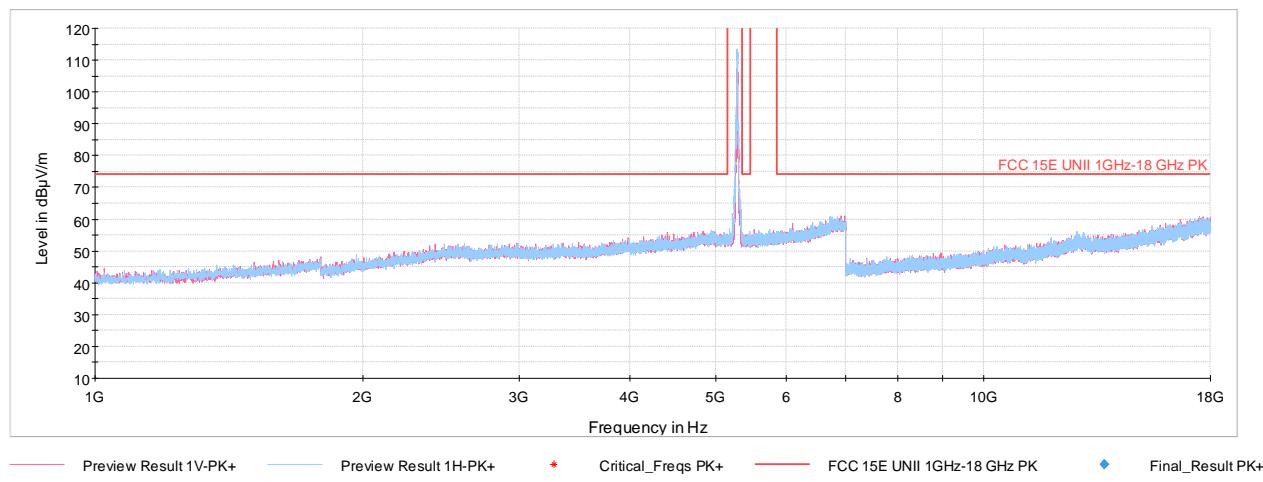
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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6.7.1 SISO Antenna-1 Radiated Spurious Emission Measurements

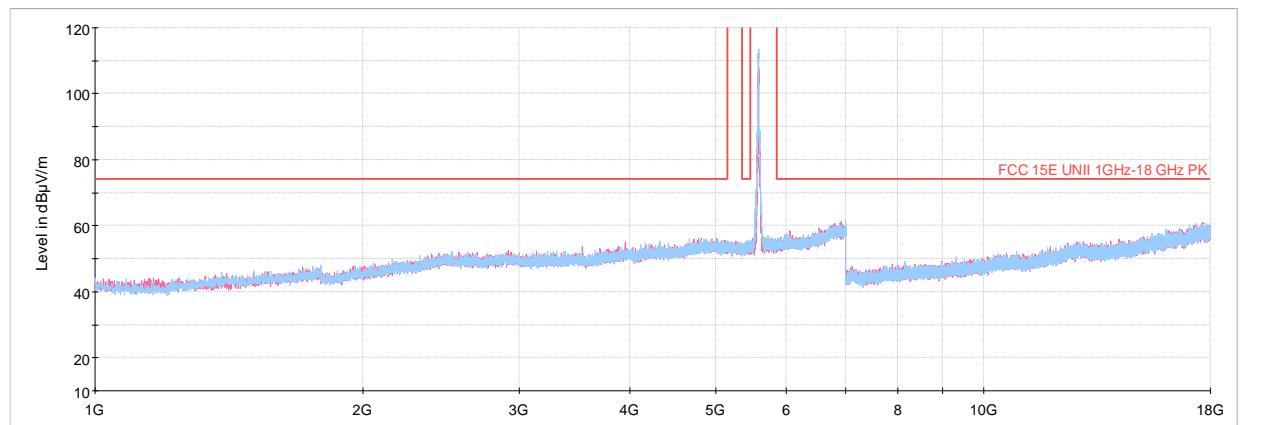


Plot 7-277. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11n – U1 Ch. 40 H & V)

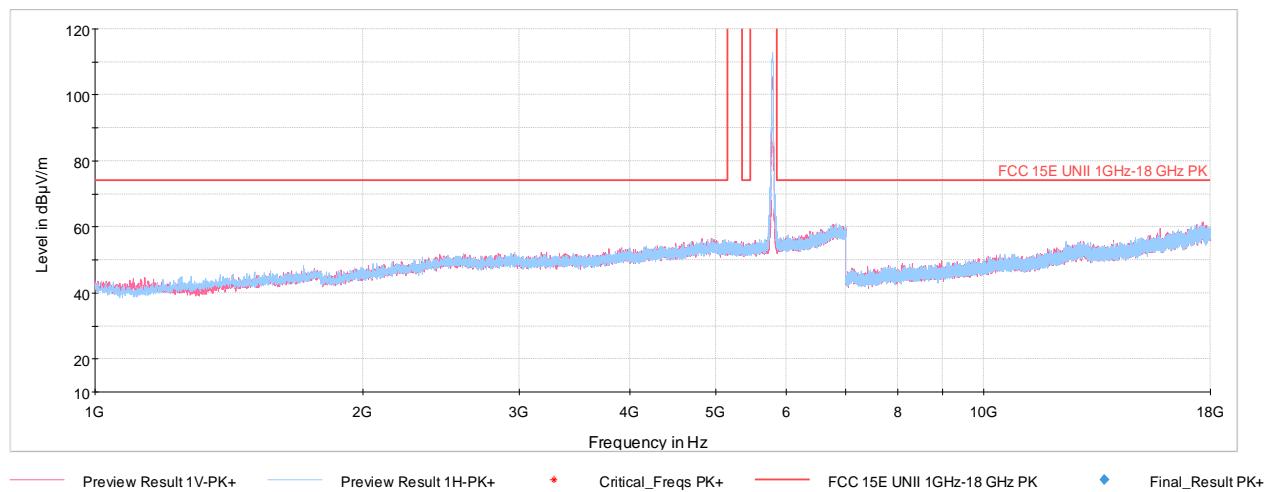


Plot 7-278. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11n – U2A Ch. 56 H & V)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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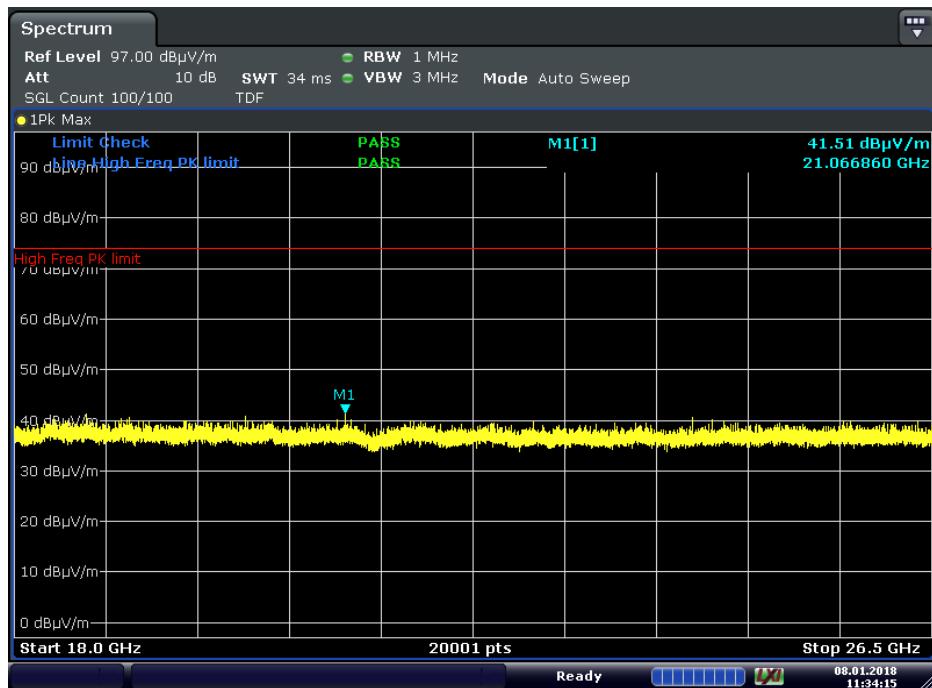
Plot 7-279. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11n – U2C Ch. 116 H & V)



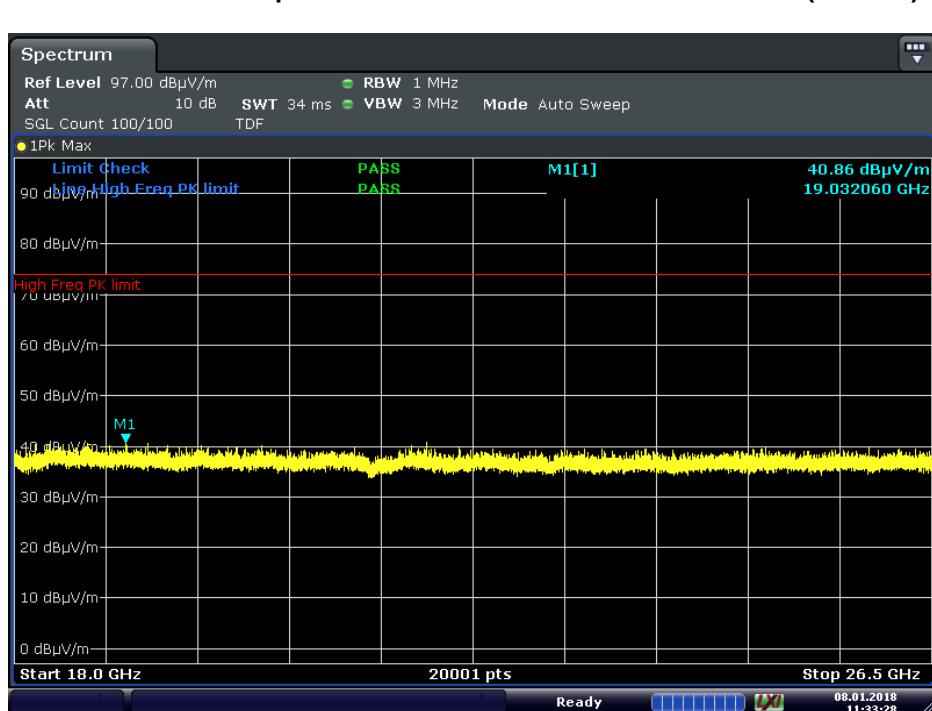
Plot 7-280. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11n – U3 Ch. 157 H & V)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

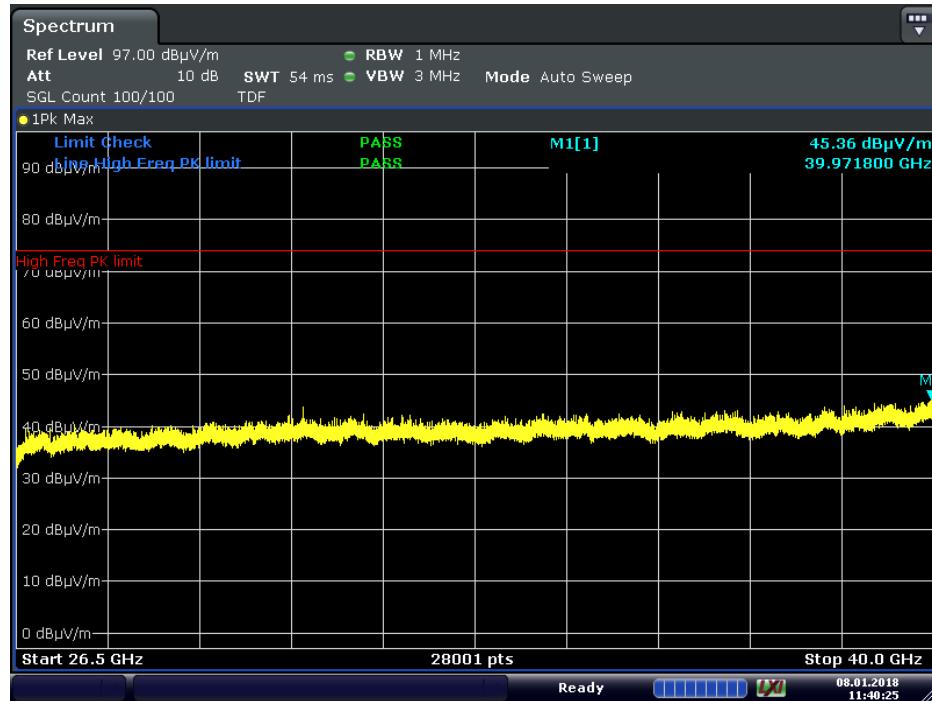


Plot 7-281. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a) H

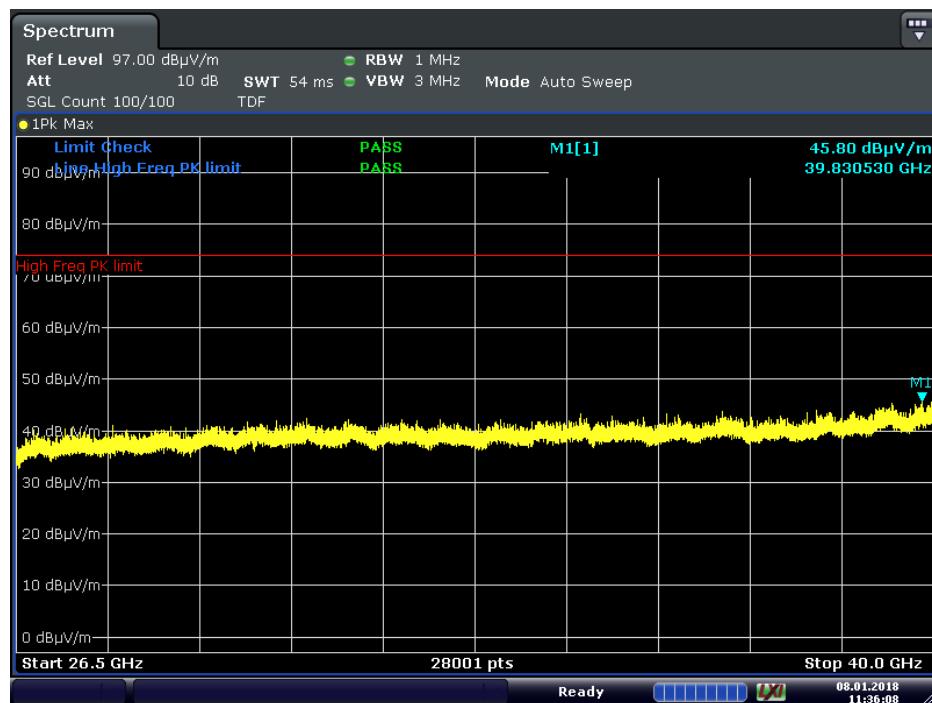


Plot 7-282. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a) V

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Date: 8 JAN 2018 11:40:25

Plot 7-283. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) H


Date: 8 JAN 2018 11:36:09

Plot 7-284. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) V

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SISO Antenna-1 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
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	-	-	-70.84	16.94	53.10	68.20	-15.10
* 15540.00	Average	H	-	-	-82.36	22.33	46.97	53.98	-7.01
* 15540.00	Peak	H	-	-	-70.84	22.33	58.49	73.98	-15.49

Table 7-36. Radiated Measurements SISO ANT1

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
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	-	-	-70.49	16.79	53.30	68.20	-14.90
* 15600.00	Average	H	-	-	-82.13	22.31	47.18	53.98	-6.80
* 15600.00	Peak	H	-	-	-70.75	22.31	58.56	73.98	-15.42

Table 7-37. Radiated Measurements SISO ANT1

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 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	-	-	-70.67	16.85	53.18	68.20	-15.02
* 15720.00	Average	H	-	-	-82.33	23.21	47.88	53.98	-6.10
* 15720.00	Peak	H	-	-	-71.20	23.21	59.01	73.98	-14.97

Table 7-38. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 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	-	-	-69.66	16.71	54.05	68.20	-14.15
* 15780.00	Average	H	-	-	-82.57	23.97	48.40	53.98	-5.58
* 15780.00	Peak	H	-	-	-71.28	23.97	59.69	73.98	-14.29

Table 7-39. Radiated Measurements SISO ANT1

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	Peak	H	-	-	-69.98	17.11	54.13	68.20	-14.07
* 15840.00	Average	H	-	-	-82.61	23.30	47.69	53.98	-6.29
* 15840.00	Peak	H	-	-	-71.41	23.30	58.89	73.98	-15.09

Table 7-40. Radiated Measurements SISO ANT1

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
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	-	-	-80.99	16.97	42.98	53.98	-11.00
* 10640.00	Peak	H	-	-	-69.84	16.97	54.13	73.98	-19.85
* 15960.00	Average	H	-	-	-82.19	23.20	48.01	53.98	-5.97
* 15960.00	Peak	H	-	-	-71.23	23.20	58.97	73.98	-15.01

Table 7-41. Radiated Measurements SISO ANT1

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-	-81.89	17.31	42.42	53.98	-11.56
* 11000.00	Peak	H	-	-	-70.36	17.31	53.95	73.98	-20.03
16500.00	Peak	H	-	-	-70.85	23.53	59.68	68.20	-8.52

Table 7-42. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-	-82.24	17.10	41.86	53.98	-12.12
* 11160.00	Peak	H	-	-	-70.63	17.10	53.47	73.98	-20.51
16740.00	Peak	H	-	-	-70.20	23.32	60.12	68.20	-8.08

Table 7-43. Radiated Measurements SISO ANT1

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5720MHz
Channel:	144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-81.89	17.46	42.57	53.98	-11.41
*	11440.00	Peak	H	-	-70.76	17.46	53.70	73.98	-20.28
	17160.00	Peak	H	-	-71.22	24.21	59.99	68.20	-8.21

Table 7-44. Radiated Measurements SISO ANT1

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5745MHz
Channel:	149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-82.29	17.64	42.35	53.98	-11.63
*	11490.00	Peak	H	-	-70.75	17.64	53.89	73.98	-20.09
	17235.00	Peak	H	-	-70.85	24.72	60.87	68.20	-7.33

Table 7-45. Radiated Measurements SISO ANT1

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-	-82.26	18.20	42.94	53.98	-11.04
* 11570.00	Peak	H	-	-	-70.09	18.20	55.11	73.98	-18.87
17355.00	Peak	H	-	-	-70.86	25.77	61.91	68.20	-6.29

Table 7-46. Radiated Measurements SISO ANT1

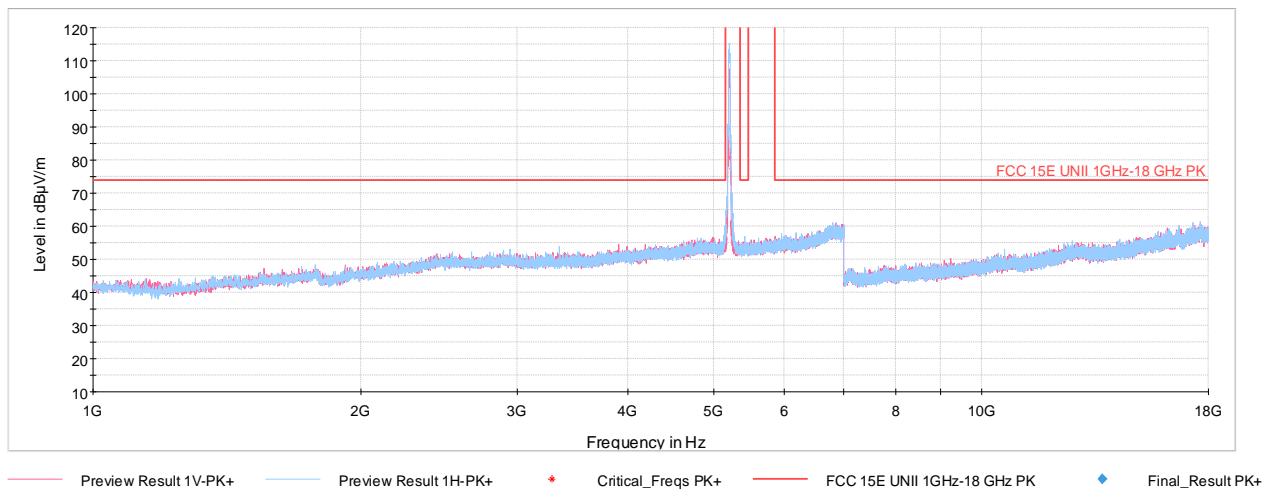
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-	-82.67	18.08	42.41	53.98	-11.57
* 11650.00	Peak	H	-	-	-70.56	18.08	54.52	73.98	-19.46
17475.00	Peak	H	-	-	-70.67	25.16	61.49	68.20	-6.71

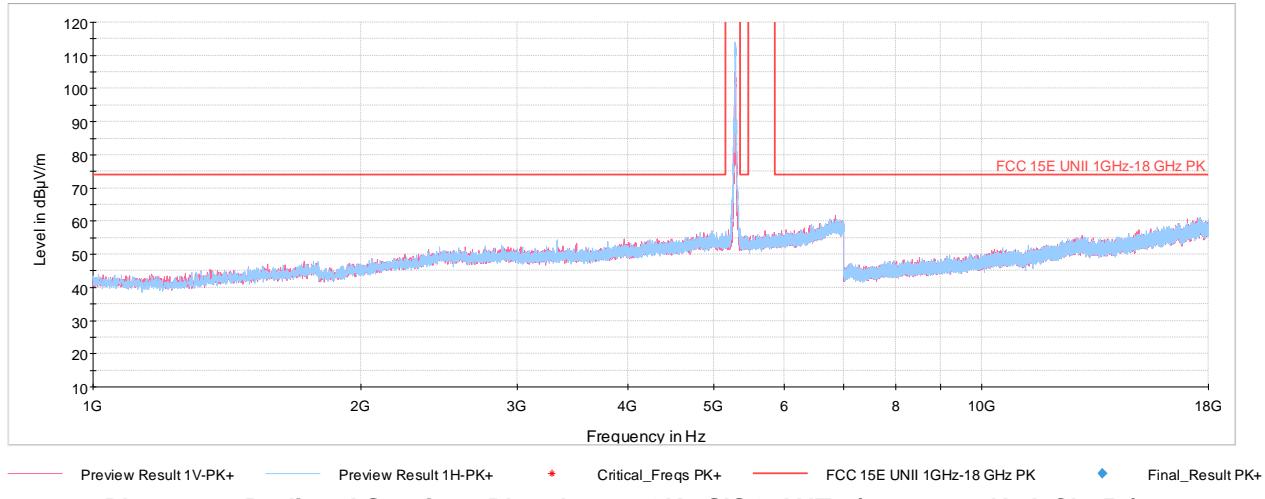
Table 7-47. Radiated Measurements SISO ANT1

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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6.7.2 SISO Antenna-2 Radiated Spurious Emission Measurements

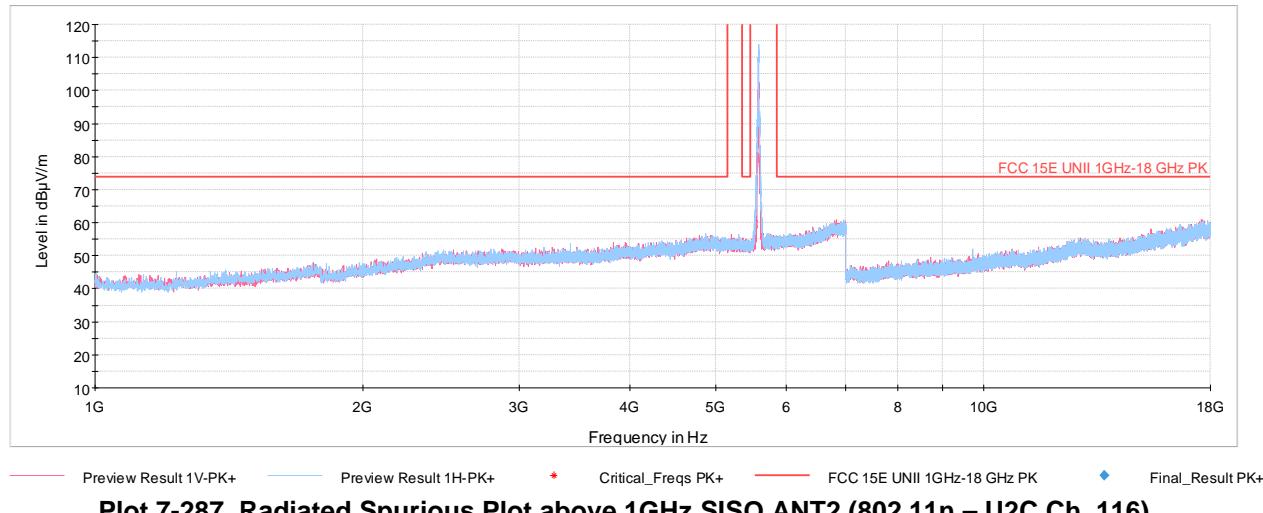


Plot 7-285. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11n – U1 Ch. 40)

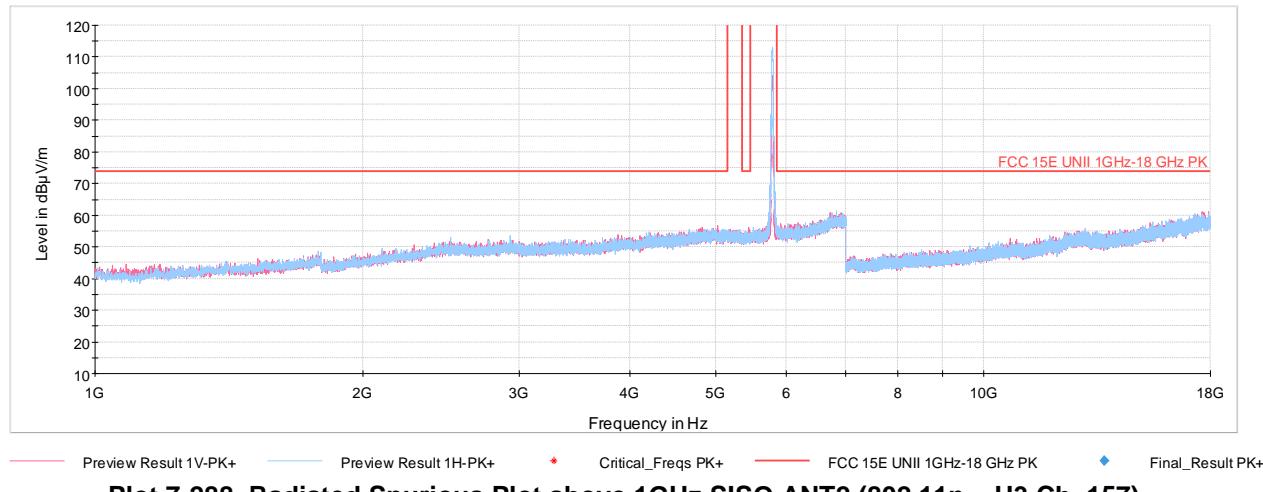


Plot 7-286. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11n – U2A Ch. 56)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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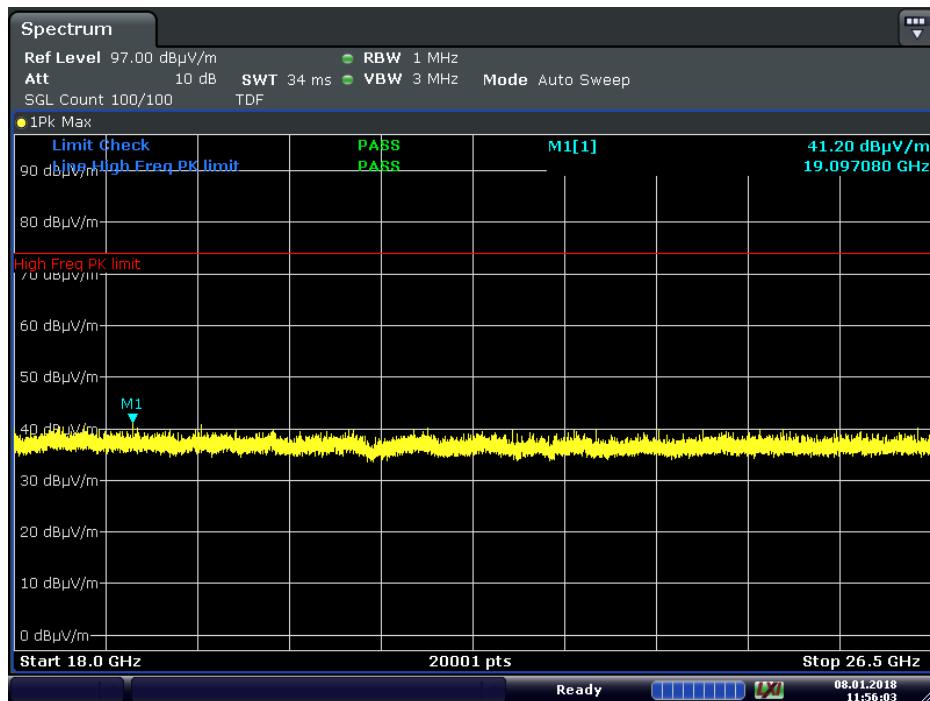
Plot 7-287. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11n – U2C Ch. 116)



Plot 7-288. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11n – U3 Ch. 157)

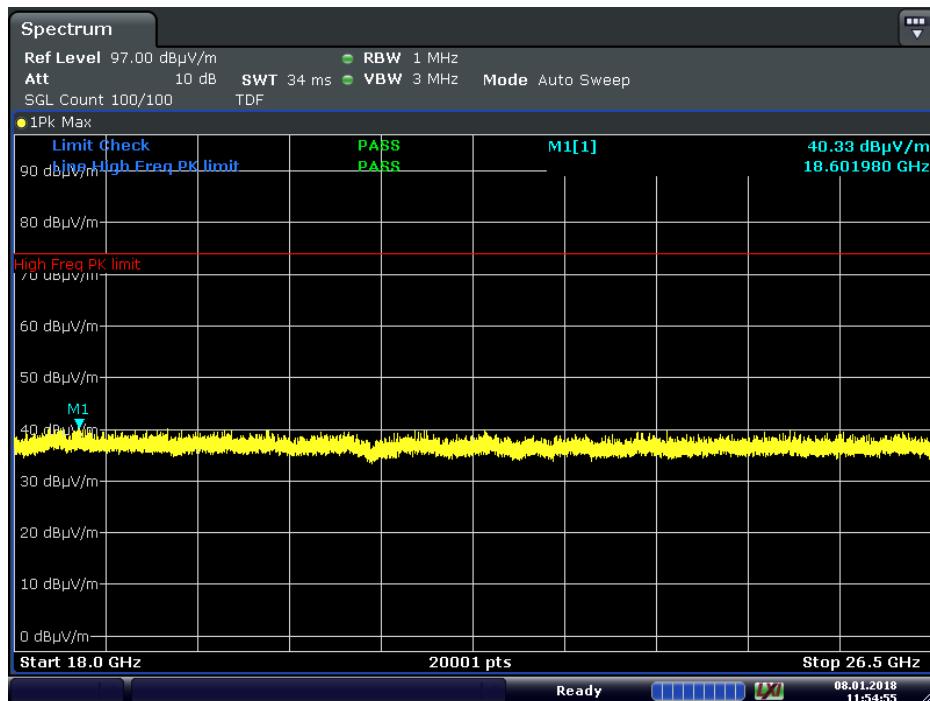
FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Date: 8.JAN.2018 11:56:03

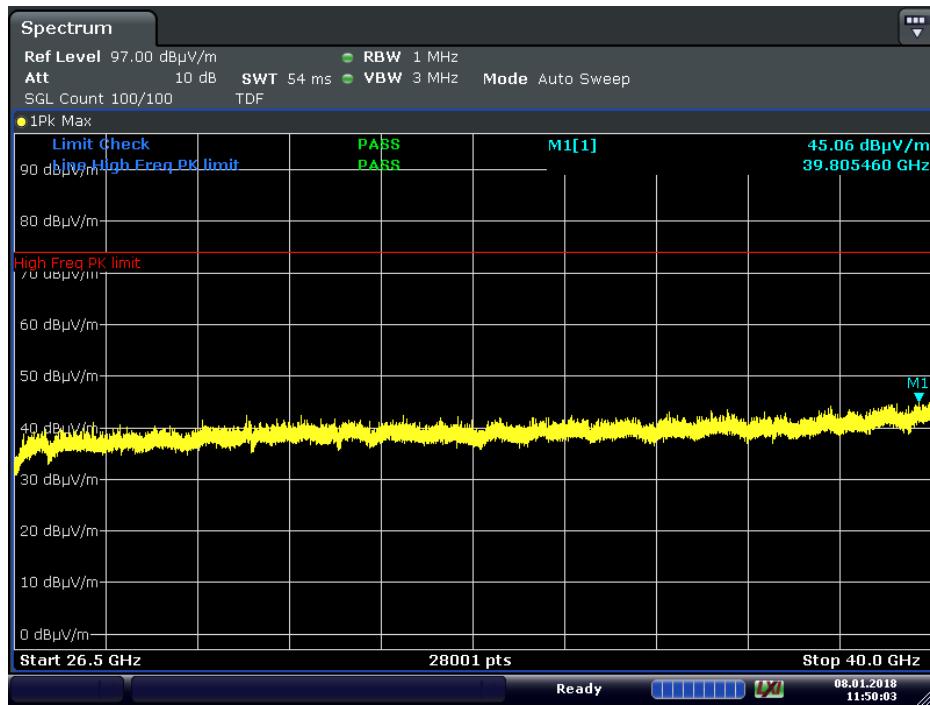
Plot 7-289. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a) H



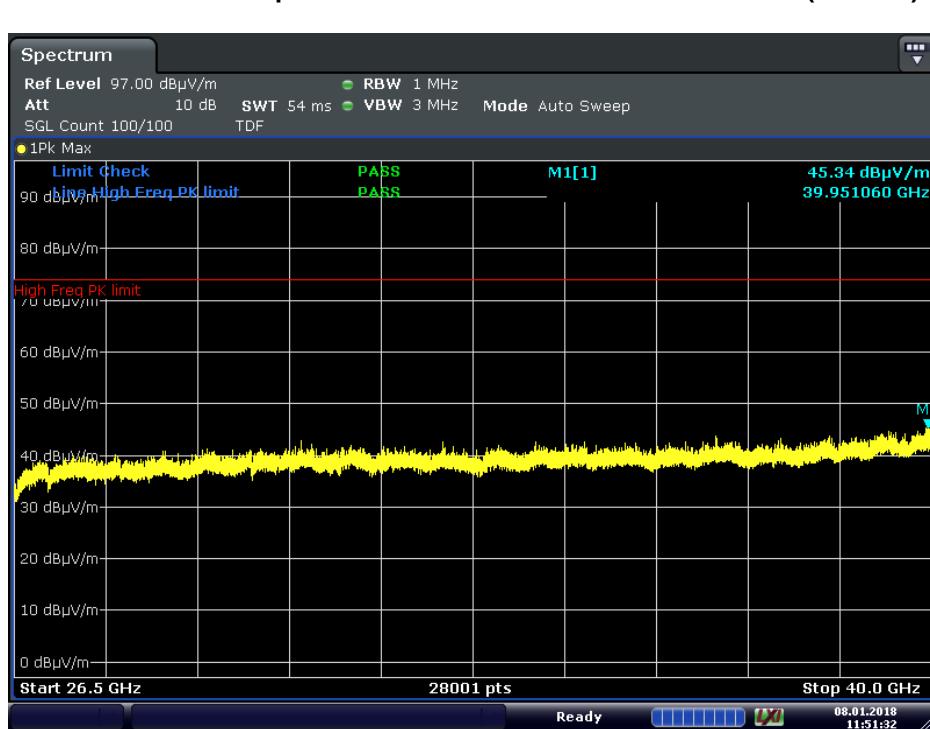
Date: 8.JAN.2018 11:54:55

Plot 7-290. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a) V

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-291. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a) H



Plot 7-292. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a) V

FCC ID: BCGA1954	 PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
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	154	282	-69.84	16.94	54.10	68.20	-14.10
* 15540.00	Average	H	-	-	-82.19	22.33	47.14	53.98	-6.84
* 15540.00	Peak	H	-	-	-70.67	22.33	58.66	73.98	-15.32

Table 7-48. Radiated Measurements SISO ANT2

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
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	-	-	-69.47	16.79	54.32	68.20	-13.88
* 15600.00	Average	H	-	-	-81.95	22.31	47.36	53.98	-6.62
* 15600.00	Peak	H	-	-	-70.68	22.31	58.63	73.98	-15.35

Table 7-49. Radiated Measurements SISO ANT2

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device			

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	190	285	-69.79	16.85	54.06	68.20	-14.14
* 15720.00	Average	H	-	-	-82.59	23.21	47.62	53.98	-6.36
* 15720.00	Peak	H	-	-	-71.10	23.21	59.11	73.98	-14.87

Table 7-50. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	240	280	-69.46	16.71	54.25	68.20	-13.95

Table 7-51. Radiated Measurements SISO ANT2

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device				Page 199 of 259

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	Peak	H	272	287	-69.66	17.11	54.45	68.20	-13.75
* 15840.00	Average	H	-	-	-82.77	23.30	47.53	53.98	-6.45
* 15840.00	Peak	H	-	-	-71.64	23.30	58.66	73.98	-15.32

Table 7-52. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 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	217	320	-79.95	16.97	44.02	53.98	-9.96
* 10640.00	Peak	H	217	320	-69.20	16.97	54.77	73.98	-19.21
* 15960.00	Average	H	-	-	-82.18	23.20	48.02	53.98	-5.96
* 15960.00	Peak	H	-	-	-70.48	23.20	59.72	73.98	-14.26

Table 7-53. Radiated Measurements SISO ANT2

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device			Page 200 of 259

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	234	279	-78.86	17.31	45.45	53.98	-8.53
* 11000.00	Peak	H	234	279	-67.73	17.31	56.58	73.98	-17.40
16500.00	Peak	H	-	-	-71.23	23.53	59.30	68.20	-8.90

Table 7-54. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	-	-	-80.55	17.10	43.55	53.98	-10.43
* 11160.00	Peak	H	-	-	-69.63	17.10	54.47	73.98	-19.51
16740.00	Peak	H	-	-	-71.07	23.32	59.25	68.20	-8.95

Table 7-55. Radiated Measurements SISO ANT2

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device			Page 201 of 259

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5720MHz
Channel:	144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	294	280	-80.38	17.46	44.08	53.98	-9.90
*	11440.00	Peak	H	294	280	-69.33	17.46	55.13	73.98	-18.85
	17160.00	Peak	H	-	-	-70.27	24.21	60.94	68.20	-7.26

Table 7-56. Radiated Measurements SISO ANT2

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5745MHz
Channel:	149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	142	304	-81.29	17.64	43.35	53.98	-10.63
*	11490.00	Peak	H	142	304	-70.63	17.64	54.01	73.98	-19.97
	17235.00	Peak	H	-	-	-69.84	24.72	61.88	68.20	-6.32

Table 7-57. Radiated Measurements SISO ANT2

FCC ID: BCGA1954	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 202 of 259

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	209	308	-84.63	18.20	40.57	53.98	-13.41
* 11570.00	Peak	H	209	308	-73.77	18.20	51.43	73.98	-22.55
17355.00	Peak	H	-	-	-74.18	25.77	58.59	68.20	-9.61

Table 7-58. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable 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	171	311	-85.33	18.08	39.75	53.98	-14.23
* 11650.00	Peak	H	171	311	-74.31	18.08	50.77	73.98	-23.21
17475.00	Peak	H	-	-	-73.58	25.16	58.58	68.20	-9.62

Table 7-59. Radiated Measurements SISO ANT2

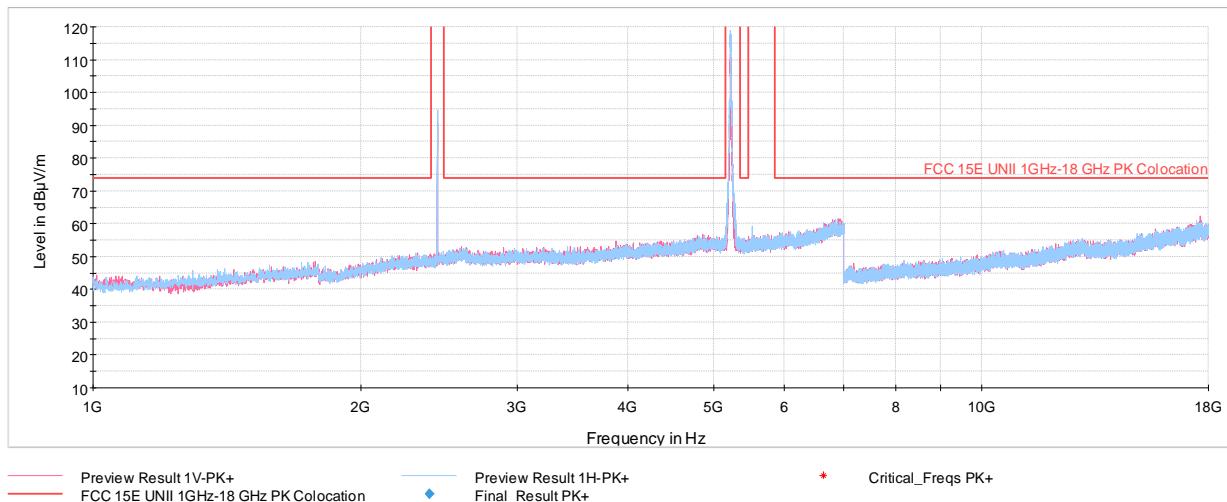
FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device			Page 203 of 259

6.7.3 Simultaneous Tx Radiated Spurious Emissions Measurements

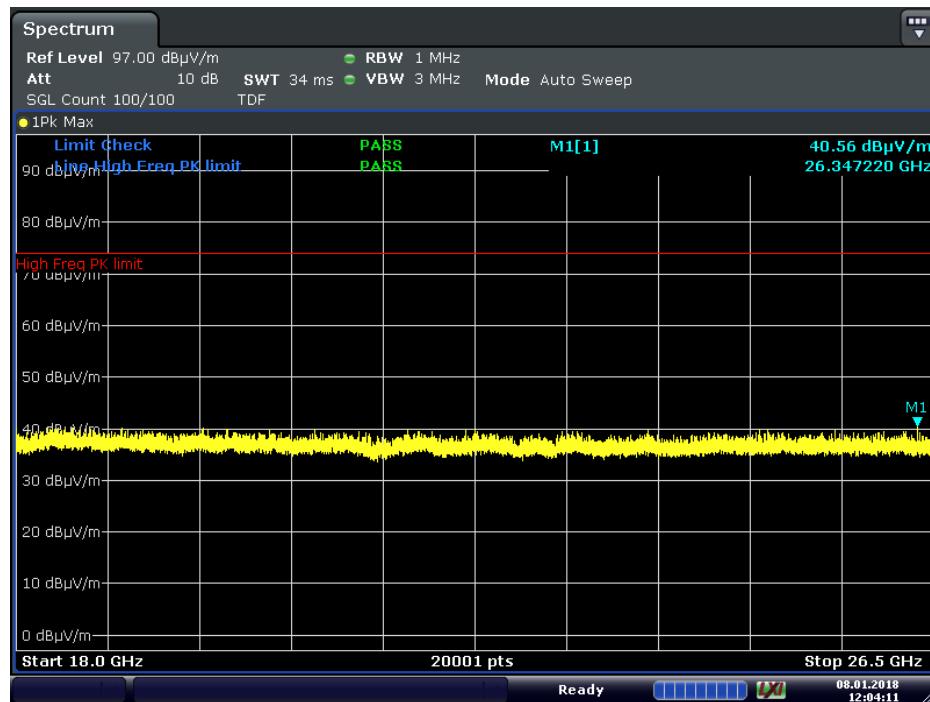
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Bluetooth Emission	5 GHz Emission
Antenna	1	1,2
Channel	39	44
Operating Frequency (MHz)	2441	5220
Data Rate (Mbps)	1	MCS0
Mode	GFSK_ePA	802.11n_HT20

Table 7-60. Simultaneous Transmission Config-1

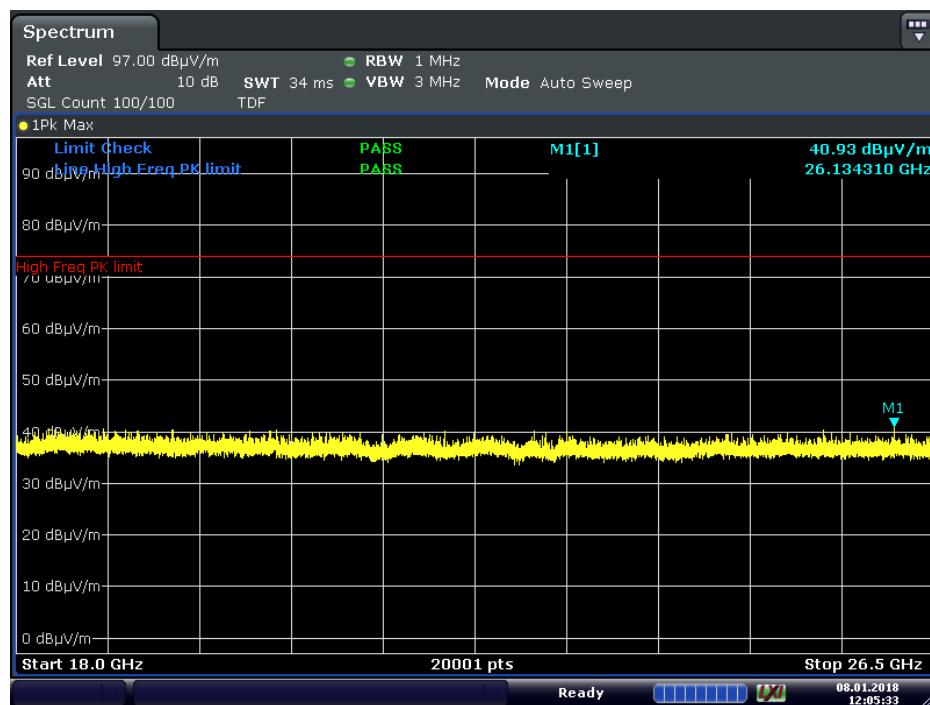


FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 204 of 259	



Date: 8 JAN 2018 12:04:12

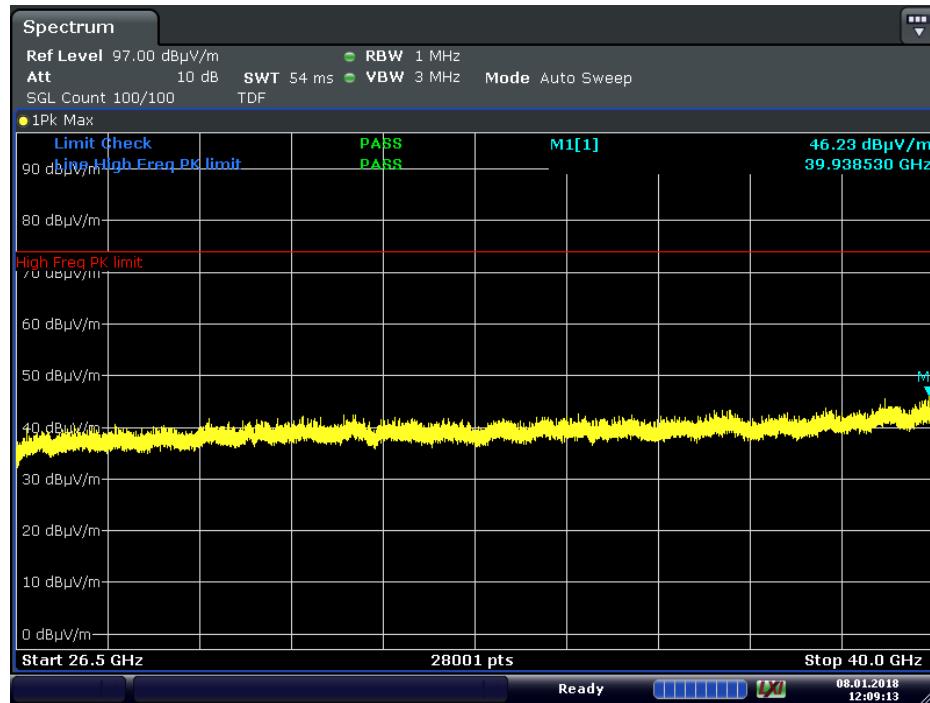
Plot 7-294. Radiated Spurious Plot 18GHz – 26.5GHz Simultaneous Tx (2.4GHz – 5GHz) H



Date: 8 JAN 2018 12:05:33

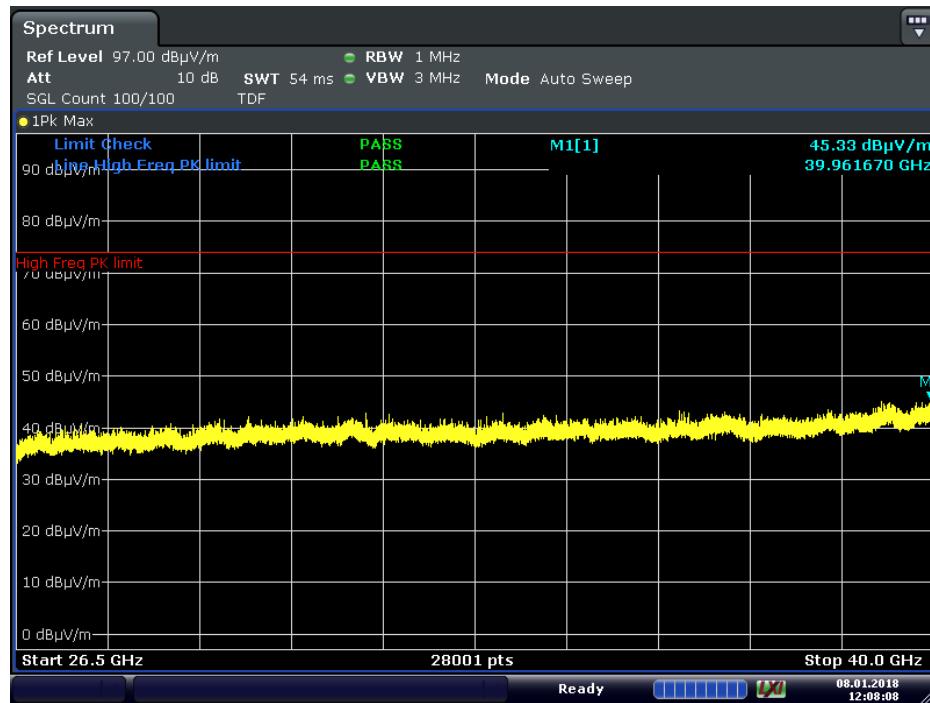
Plot 7-295. Radiated Spurious Plot 18GHz – 26.5GHz Simultaneous Tx (2.4GHz – 5GHz) V

FCC ID: BCGA1954	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 205 of 259



Date: 8.JAN.2018 12:09:13

Plot 7-296. Radiated Spurious Plot above 26.5GHz Simultaneous Tx (2.4GHz – 5GHz) H



Date: 8.JAN.2018 12:08:08

Plot 7-297. Radiated Spurious Plot above 26.5GHz Simultaneous Tx (2.4GHz – 5GHz) V

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 206 of 259

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]
4882.00	Avg	H	-	-	-70.54	7.02	43.48	53.98	-10.49
4882.00	Peak	H	-	-	-58.82	7.02	55.20	73.98	-18.77
7323.00	Avg	H	-	-	-80.54	11.28	37.74	53.98	-16.24
7323.00	Peak	H	-	-	-68.54	11.28	49.74	73.98	-24.24
11160.00	Avg	H	-	-	-83.82	18.07	41.25	53.98	-12.73
11160.00	Peak	H	-	-	-72.60	18.07	52.47	73.98	-21.51
16740.00	Avg	H	-	-	-84.12	24.99	47.87	53.98	-6.11
16740.00	Peak	H	-	-	-73.28	24.99	58.71	73.98	-15.27

Table 7-61. Radiated Measurements Simultaneous Tx (ANT1 2.4GHz – ANT2 5GHz)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device			

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

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

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

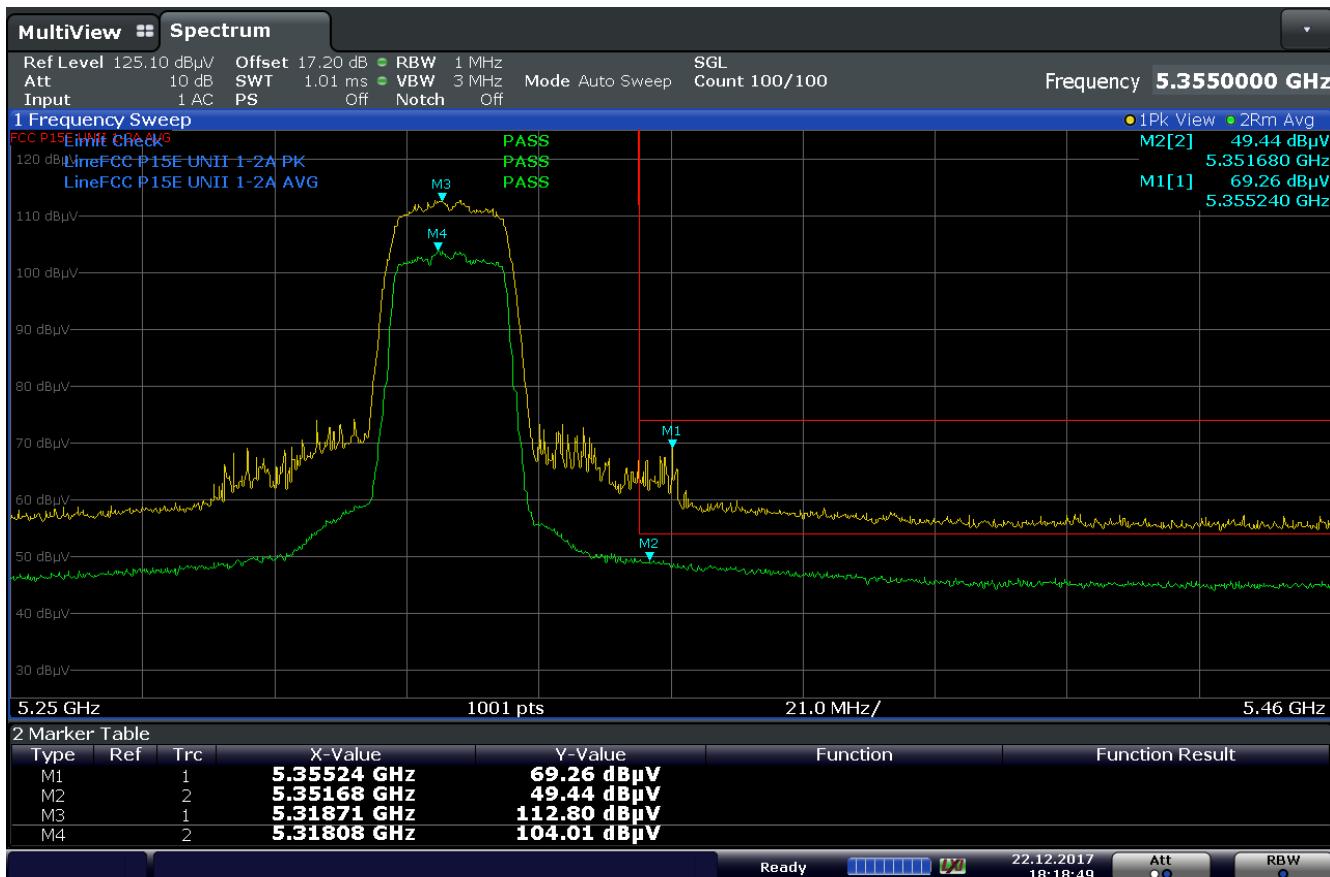


17:28:56 22.12.2017

Plot 7-298. Radiated Lower Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 1)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 208 of 259	

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

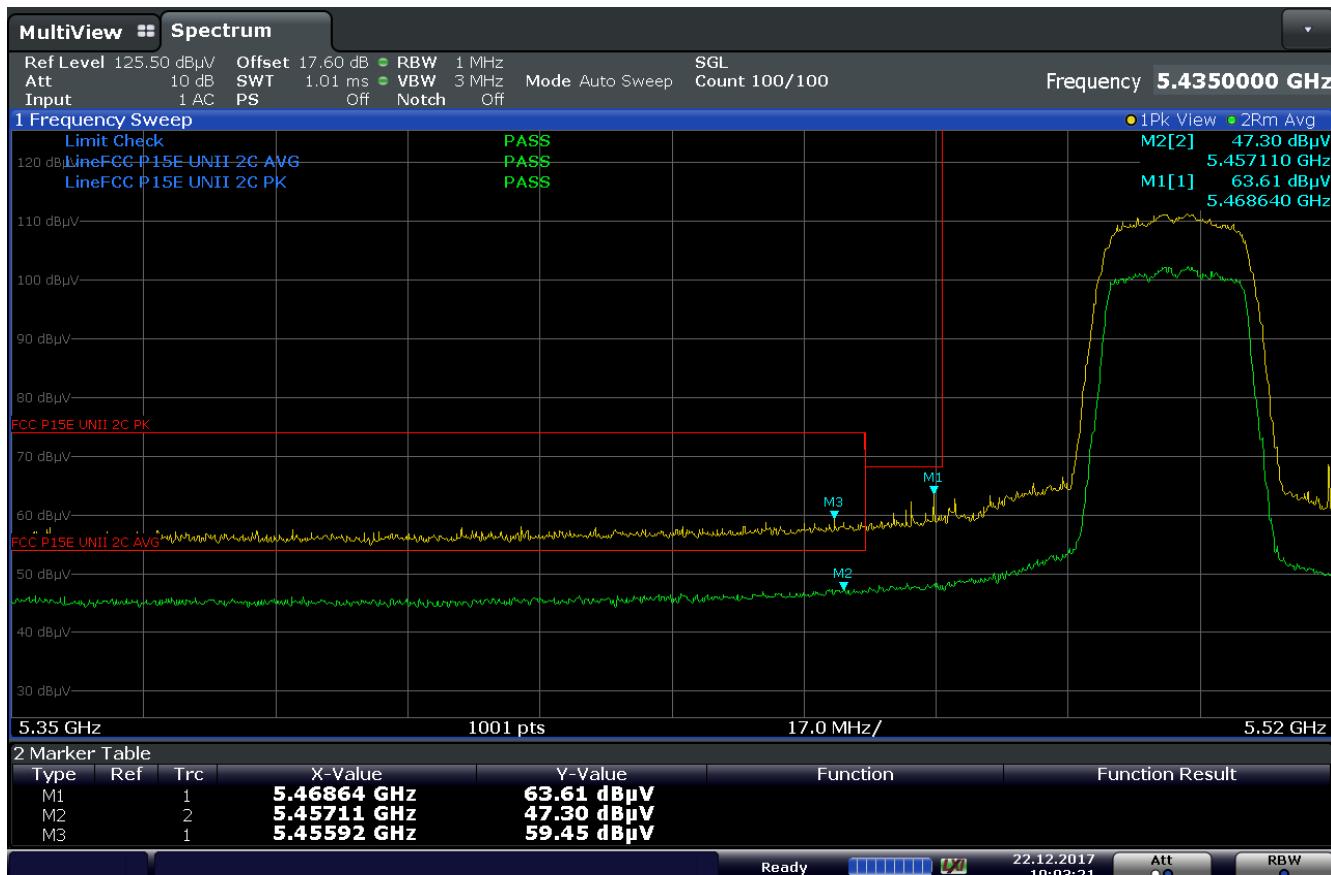


18:18:49 22.12.2017

Plot 7-299. Radiated Upper Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 2A)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 209 of 259	

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100



19:03:22 22.12.2017

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

FCC ID: BCGA1954	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 210 of 259

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



21:11:55 22.12.2017

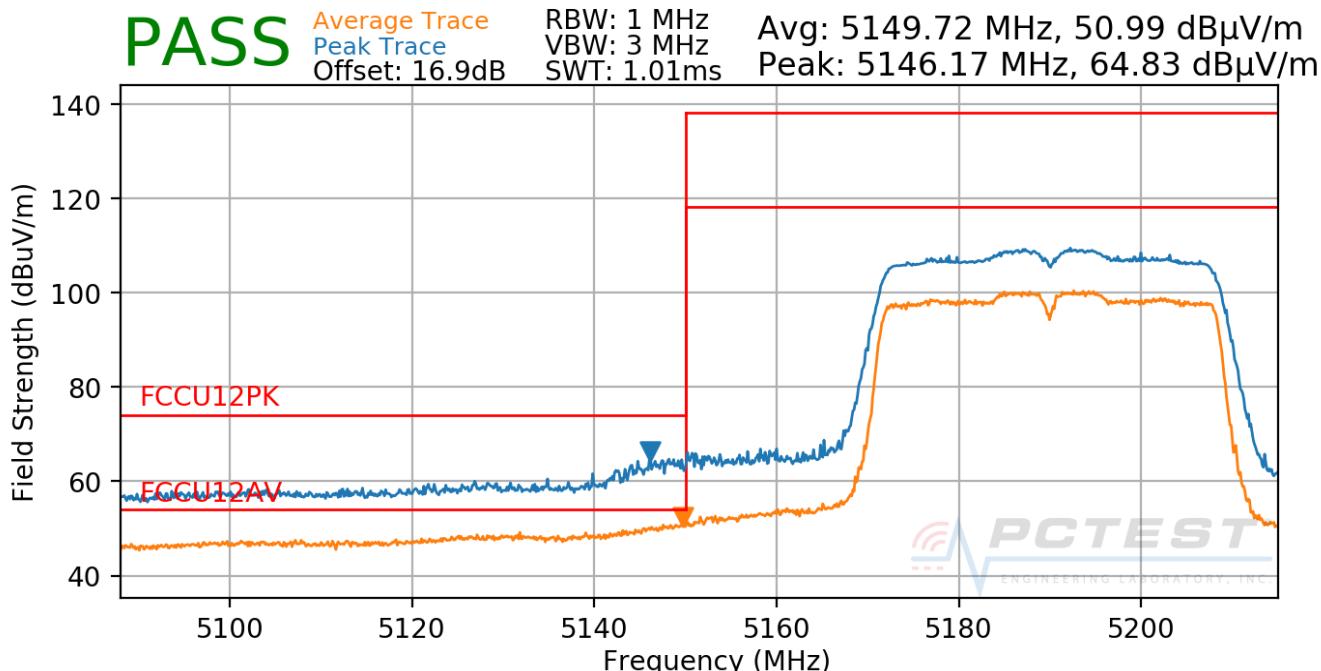
Plot 7-301. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 211 of 259	

6.7.5 Antenna-1 Radiated Band Edge Measurements (40MHz BW)

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

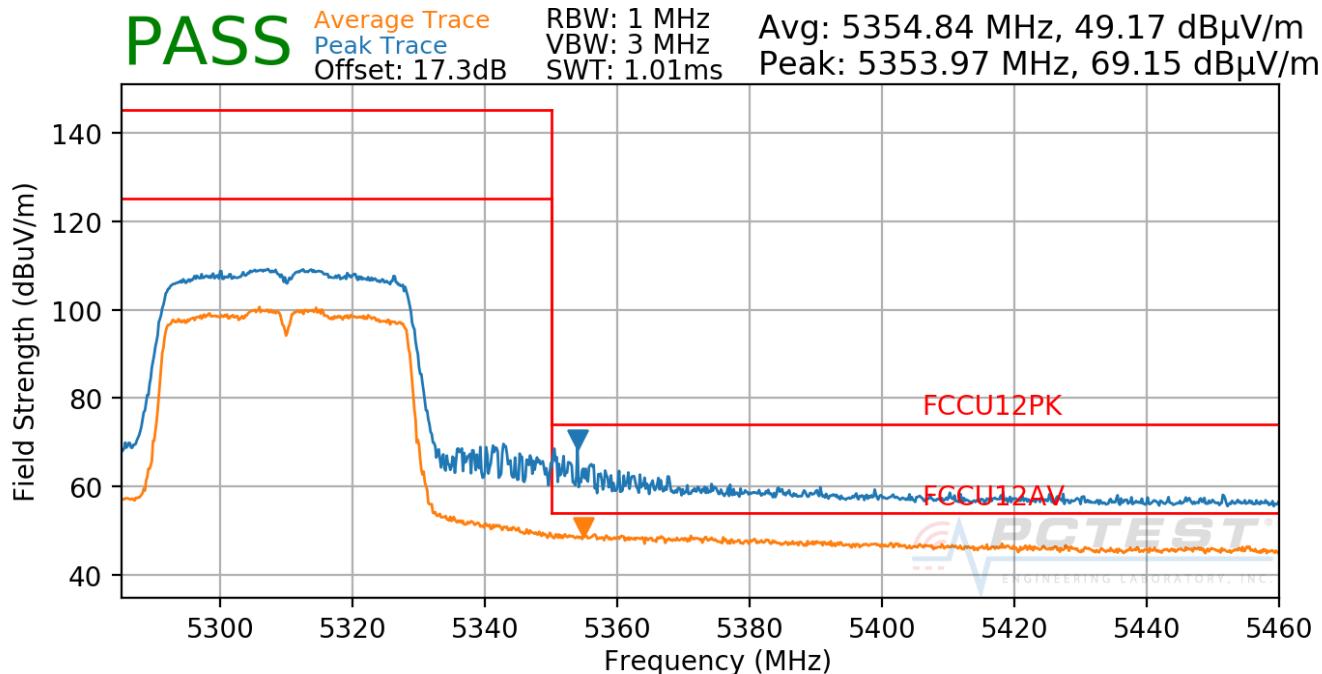
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38



Plot 7-302. Radiated Lower Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 1)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 212 of 259

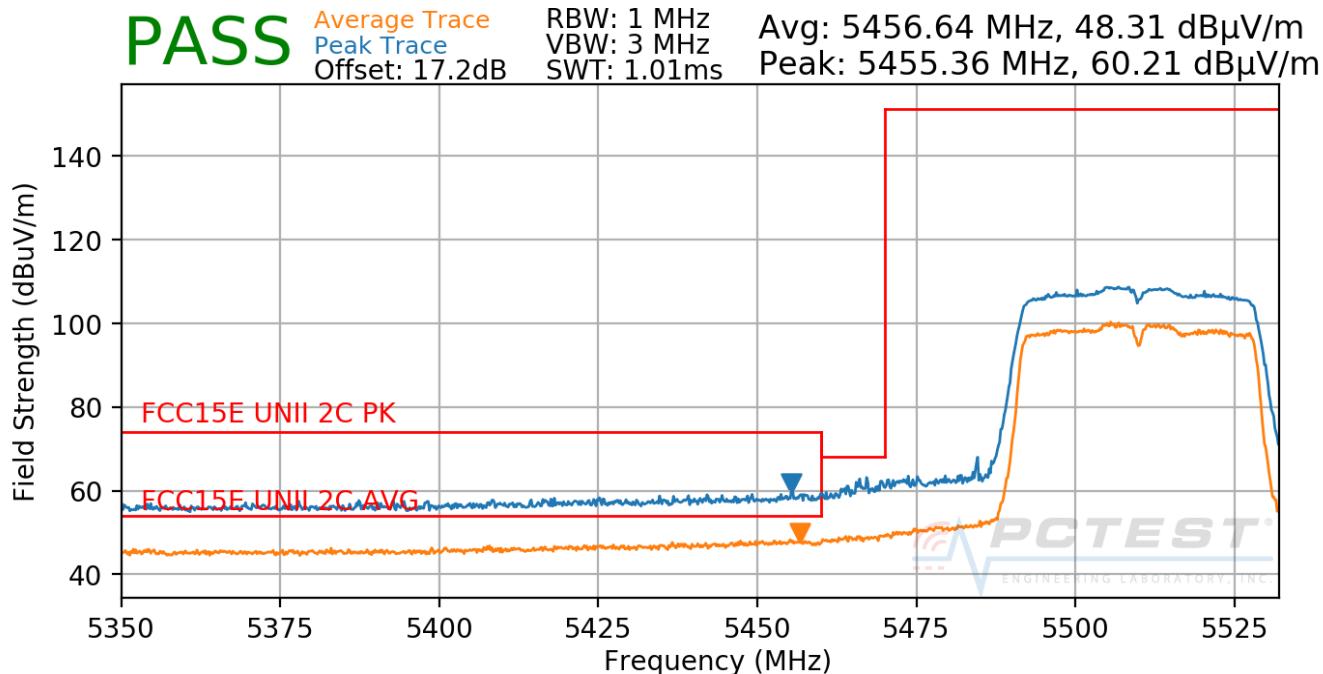
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62



Plot 7-303. Radiated Upper Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 2A)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 213 of 259

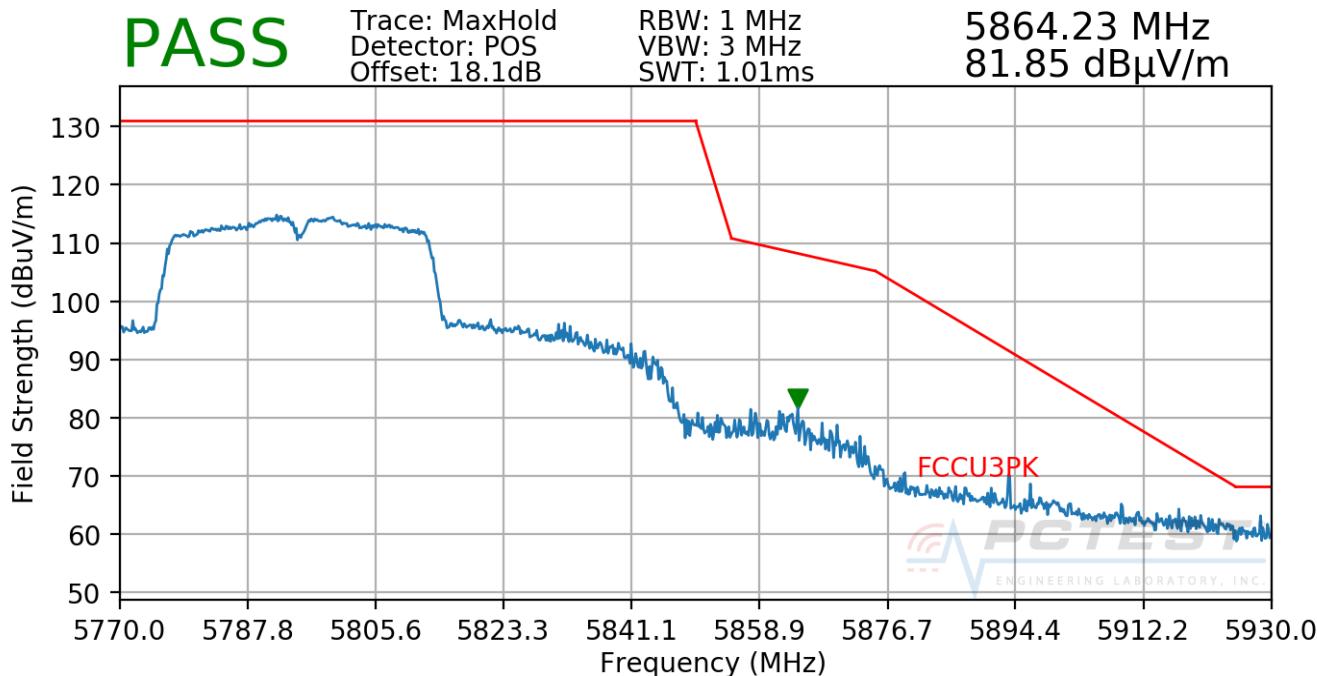
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5510MHz
Channel: 102



Plot 7-304. Radiated Lower Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 2C)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 214 of 259

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



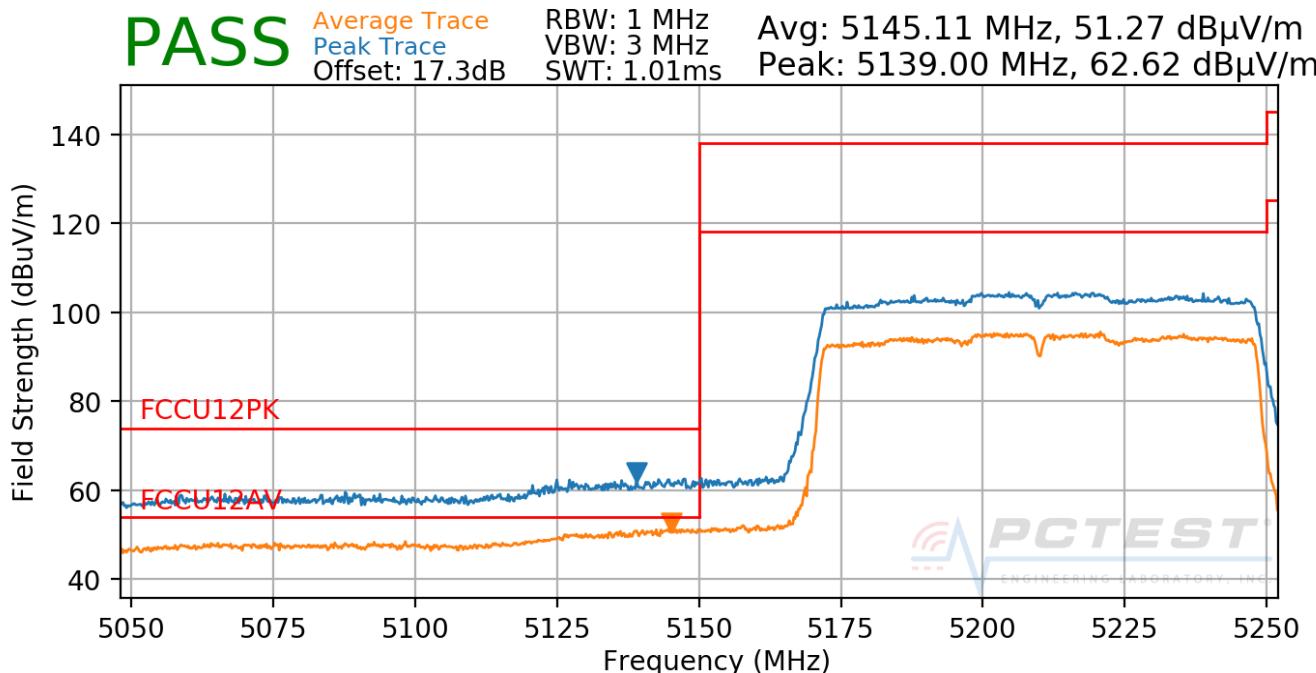
Plot 7-305. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 215 of 259

6.7.6 Antenna-1 Radiated Band Edge Measurements (80MHz BW)

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

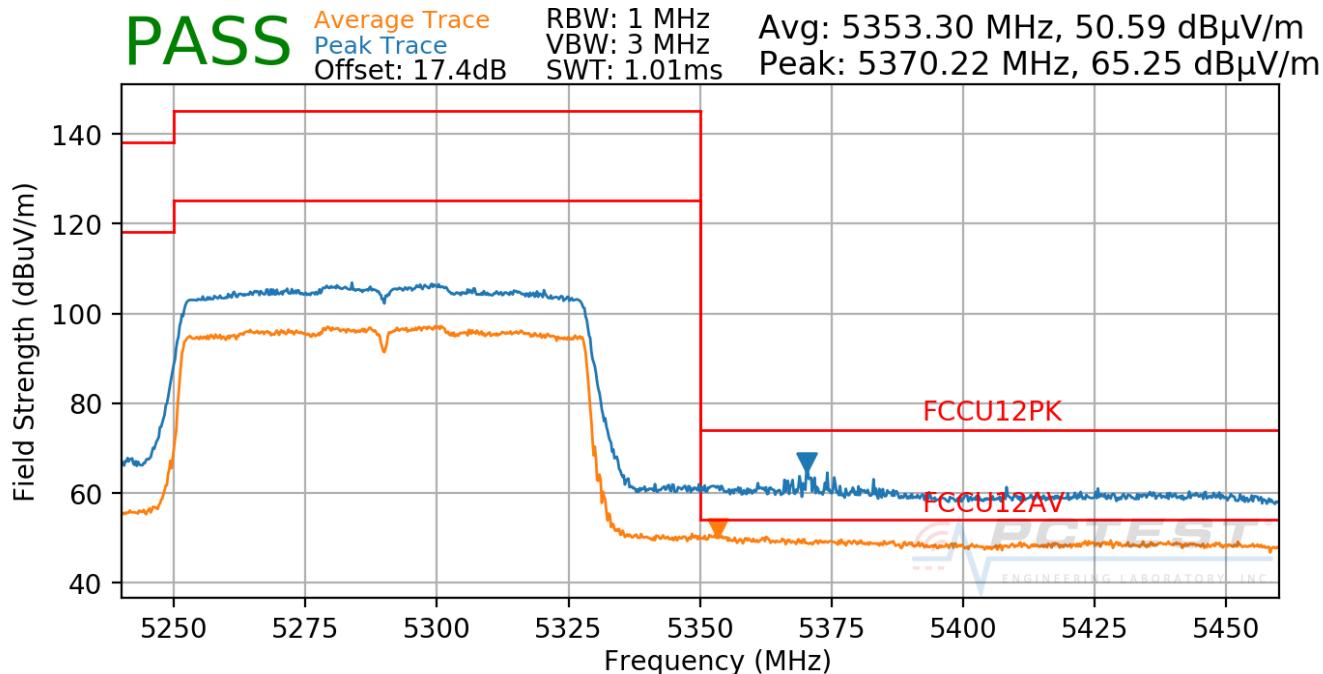
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42



Plot 7-306. Radiated Lower Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 1)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 216 of 259

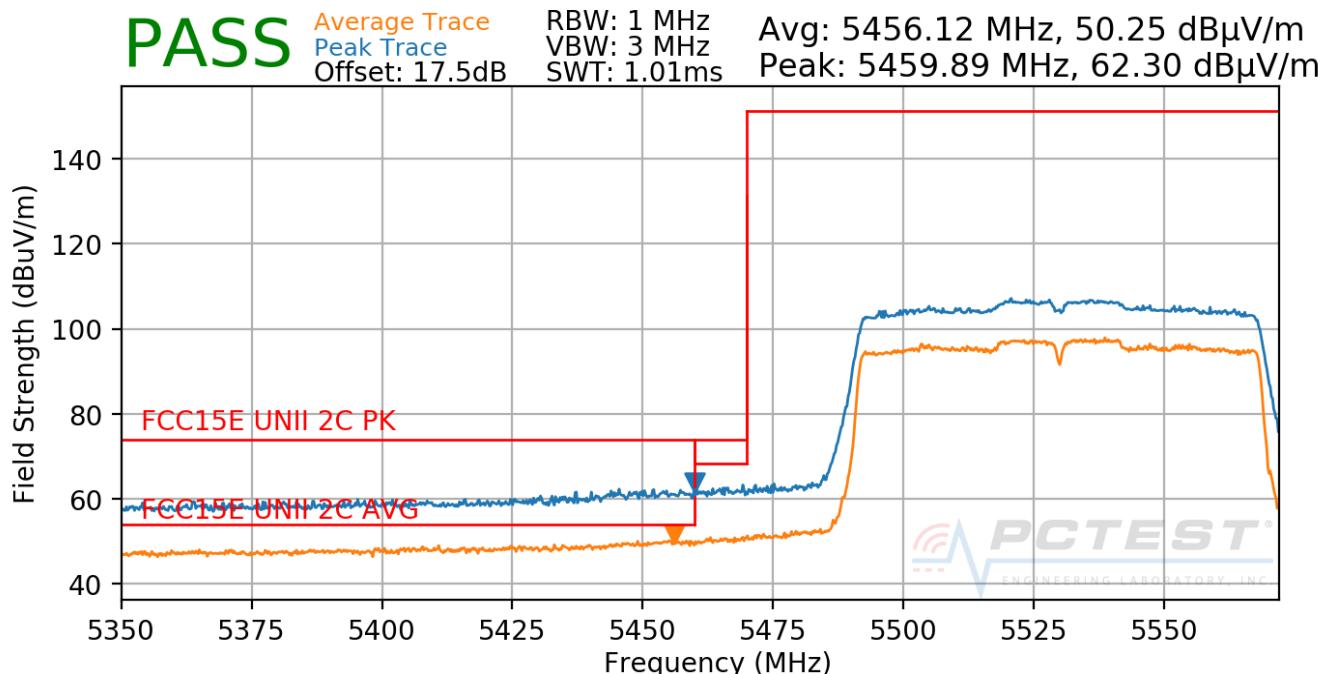
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58



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

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 217 of 259

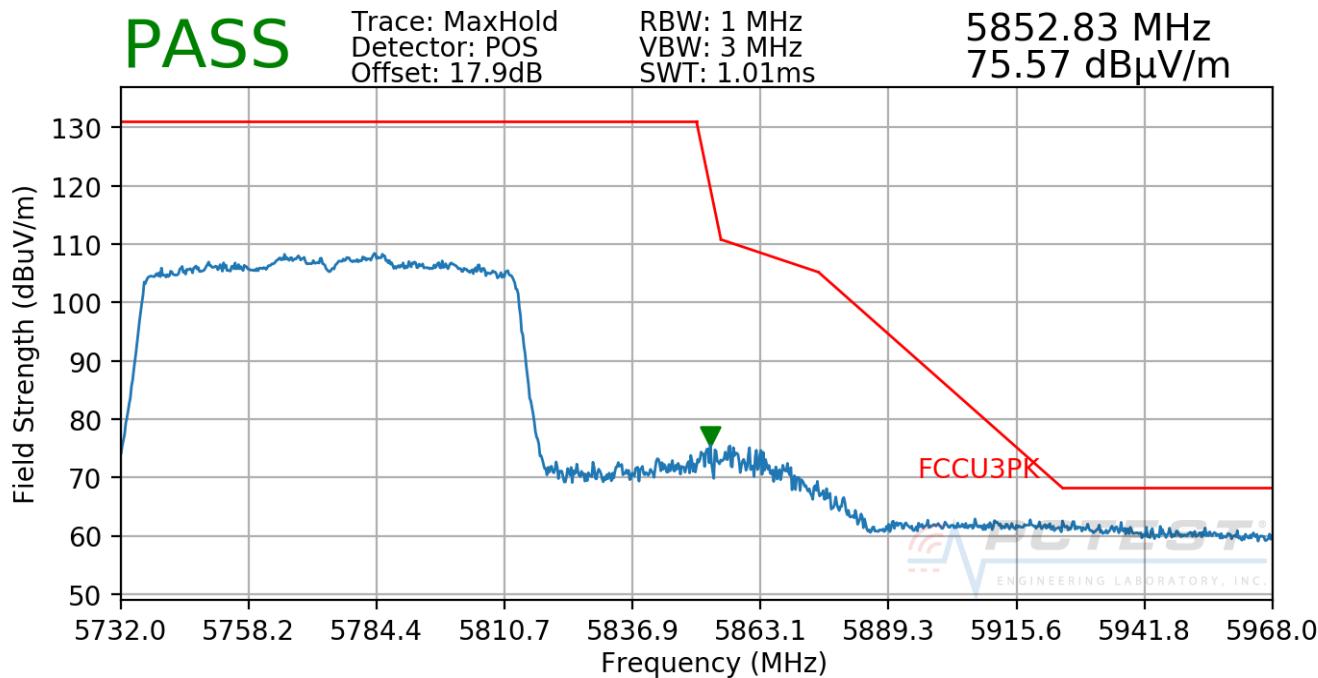
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106



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

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 218 of 259

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



Plot 7-309. Radiated Lower Band Edge Plot SISO ANT1 (Average & Peak – UNII Band 3)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 219 of 259

6.7.7 Antenna-2 Radiated Band Edge Measurements (20MHz BW)

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

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36



21:36:21 22.12.2017

Plot 7-310. Radiated Lower Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 1)

FCC ID: BCGA1954	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 220 of 259

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

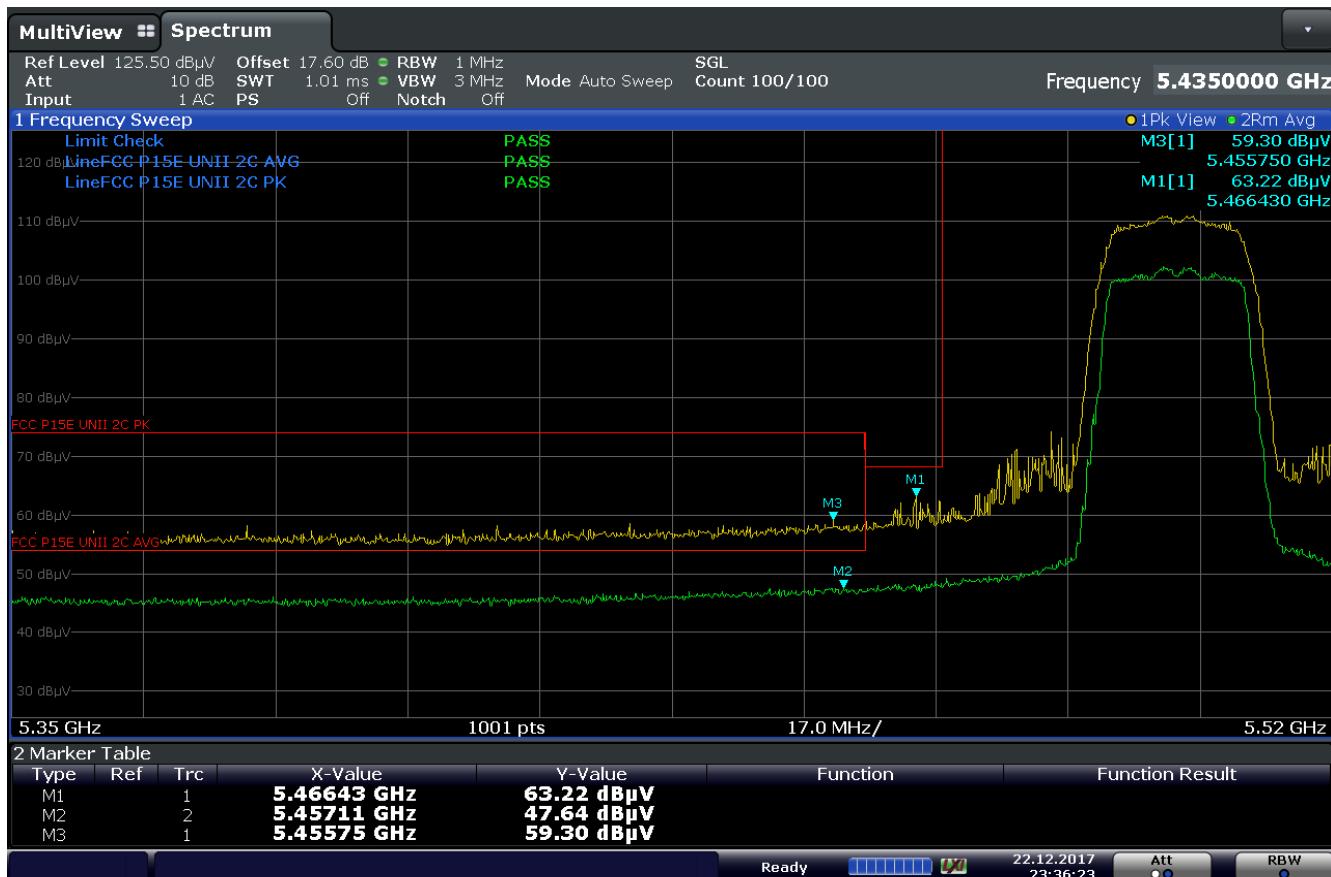


22:24:21 22.12.2017

Plot 7-311. Radiated Upper Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 2A)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 221 of 259	

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100



23:36:23 22.12.2017

Plot 7-312. Radiated Lower Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 2C)

FCC ID: BCGA1954	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 222 of 259	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



01:05:55 23.12.2017

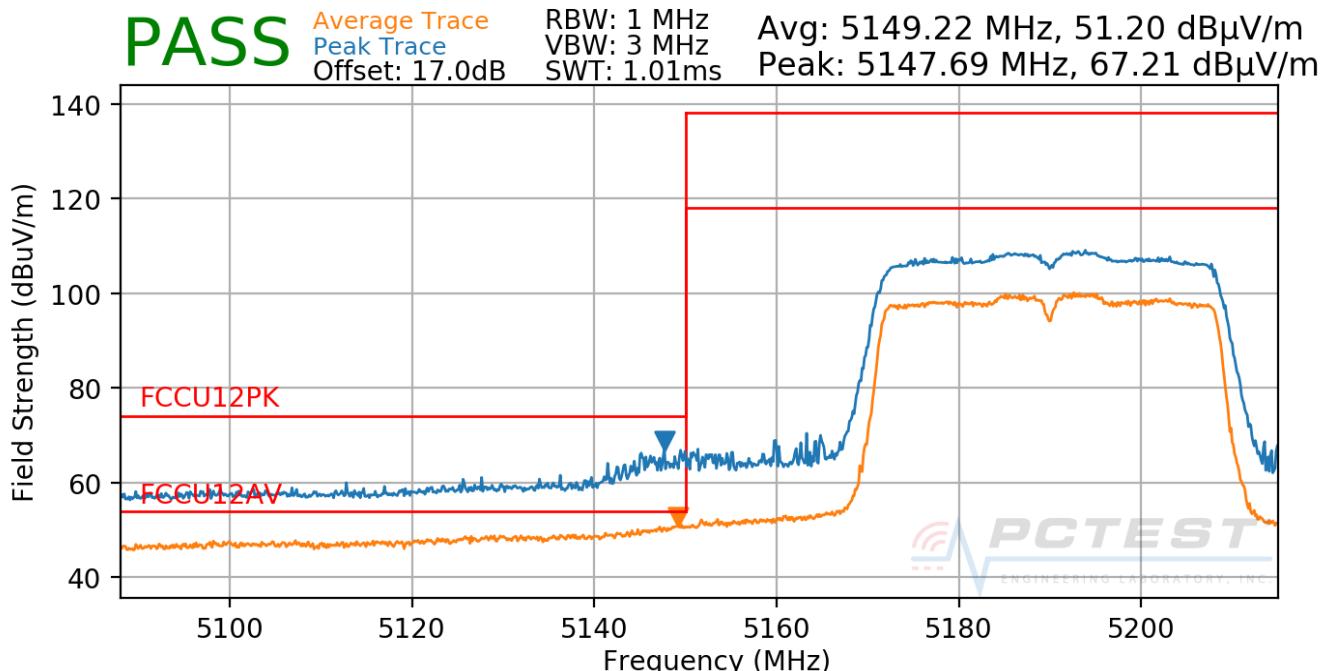
Plot 7-313. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 223 of 259

6.7.8 Antenna-2 Radiated Band Edge Measurements (40MHz BW)

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

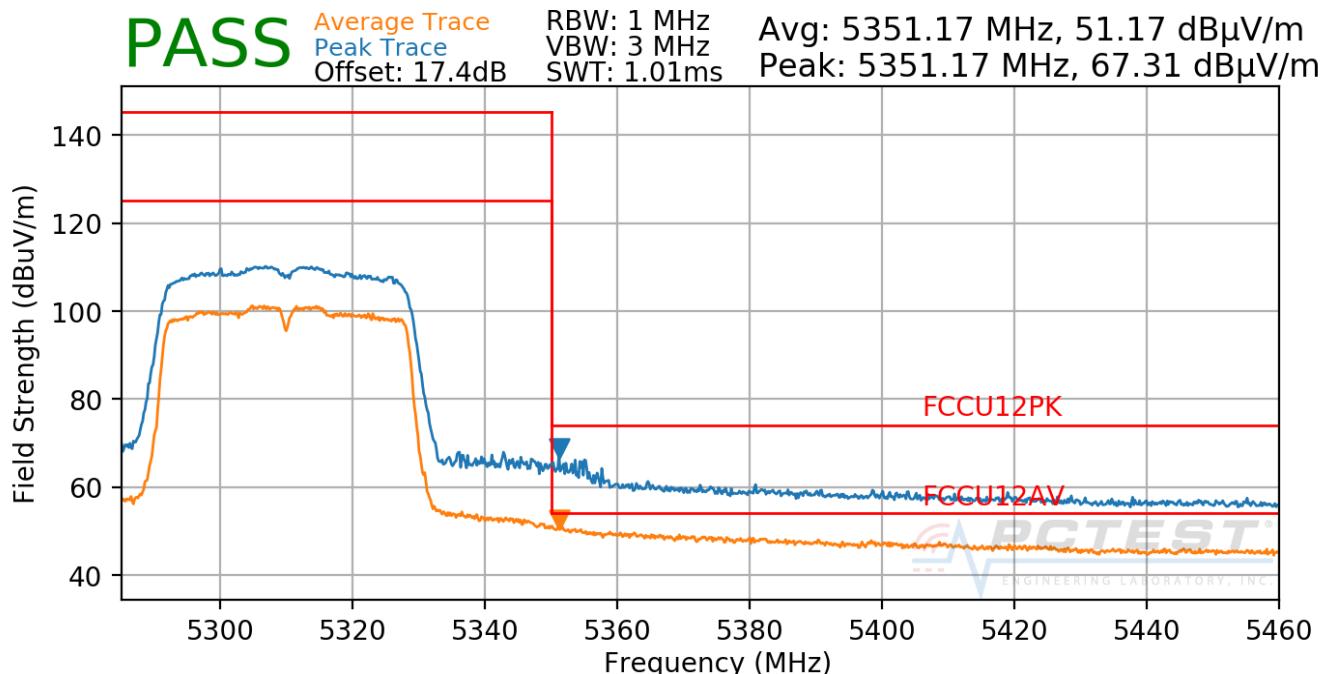
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38



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

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 224 of 259

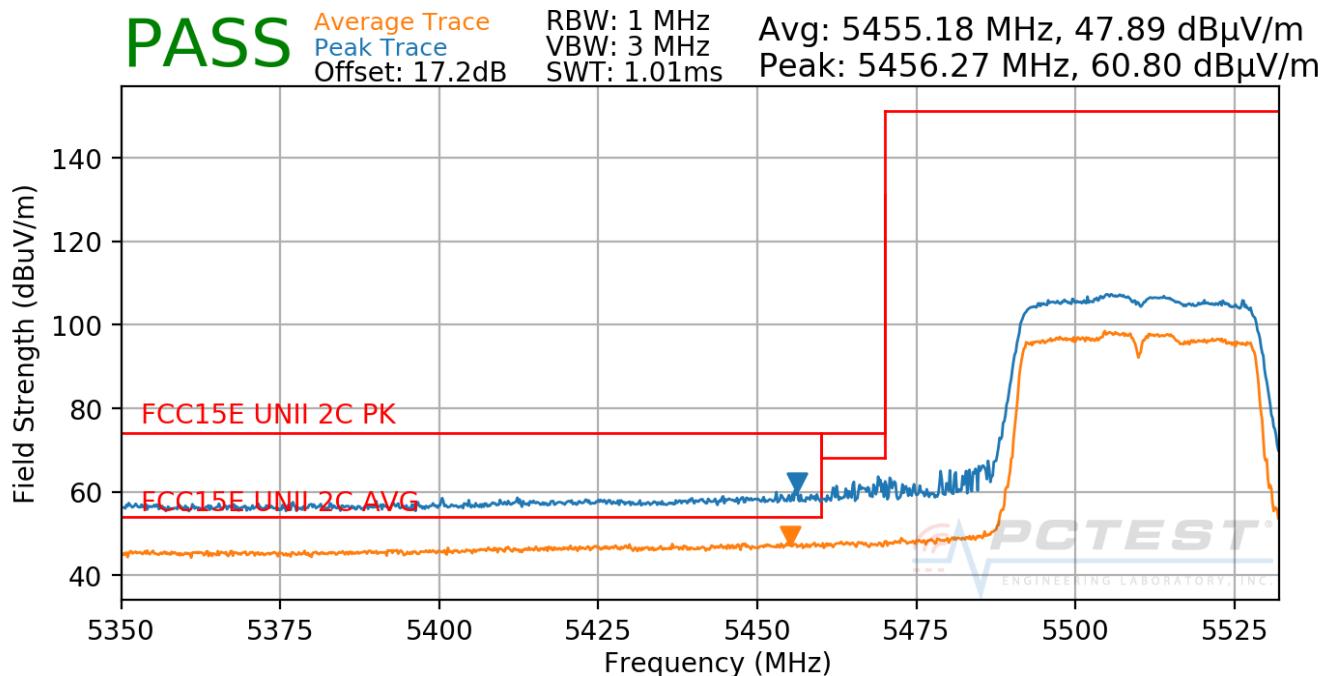
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62



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

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 225 of 259

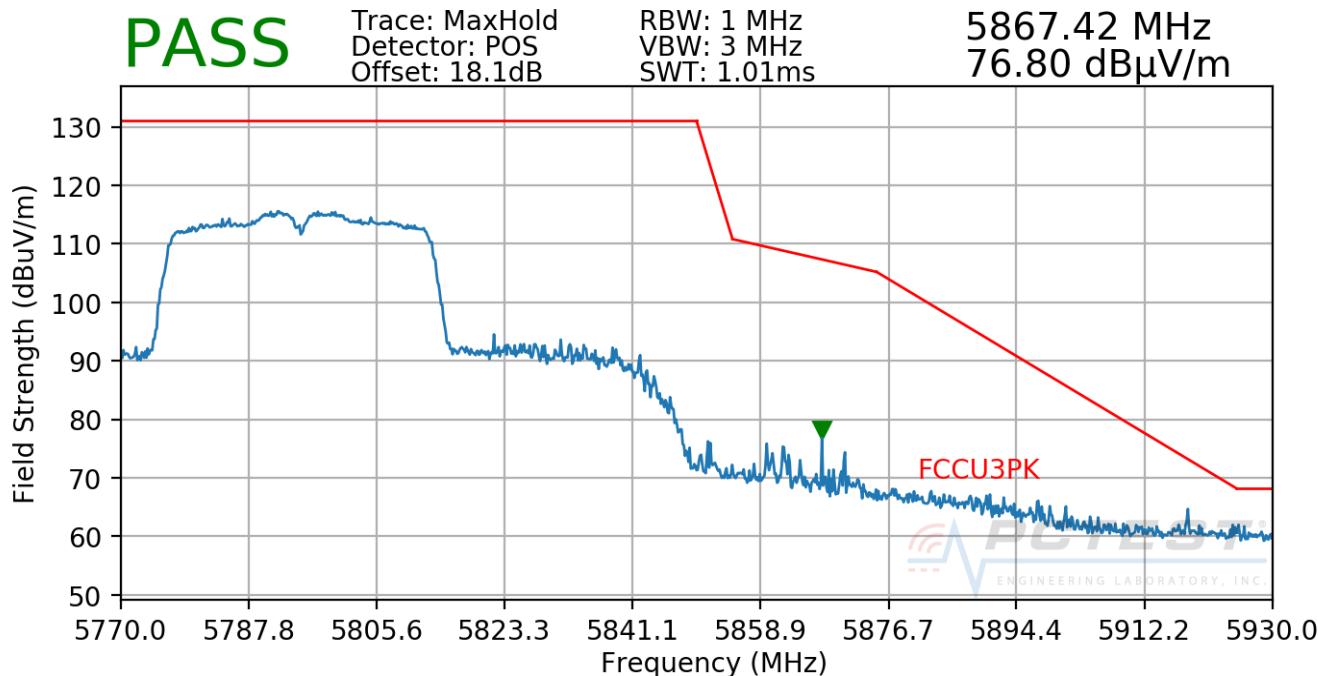
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



Plot 7-316. Radiated Lower Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 2C)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 226 of 259

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



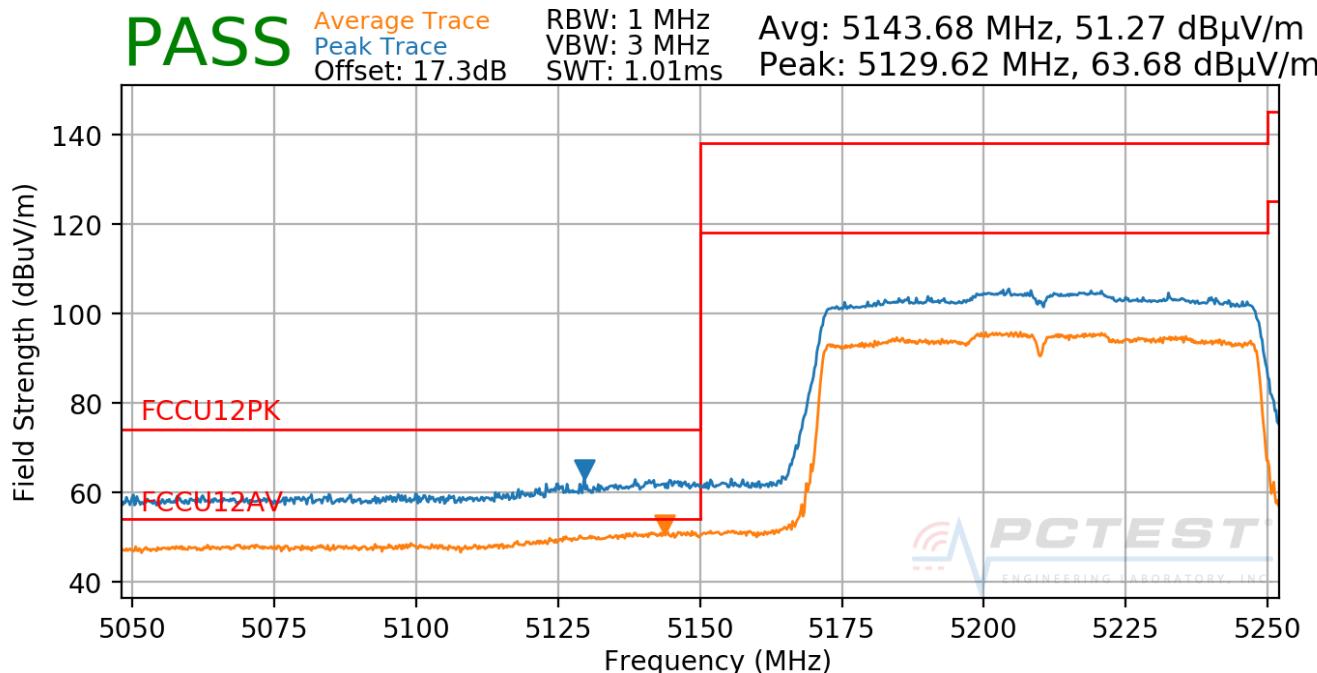
Plot 7-317. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device		Page 227 of 259

6.7.9 Antenna-2 Radiated Band Edge Measurements (80MHz BW)

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

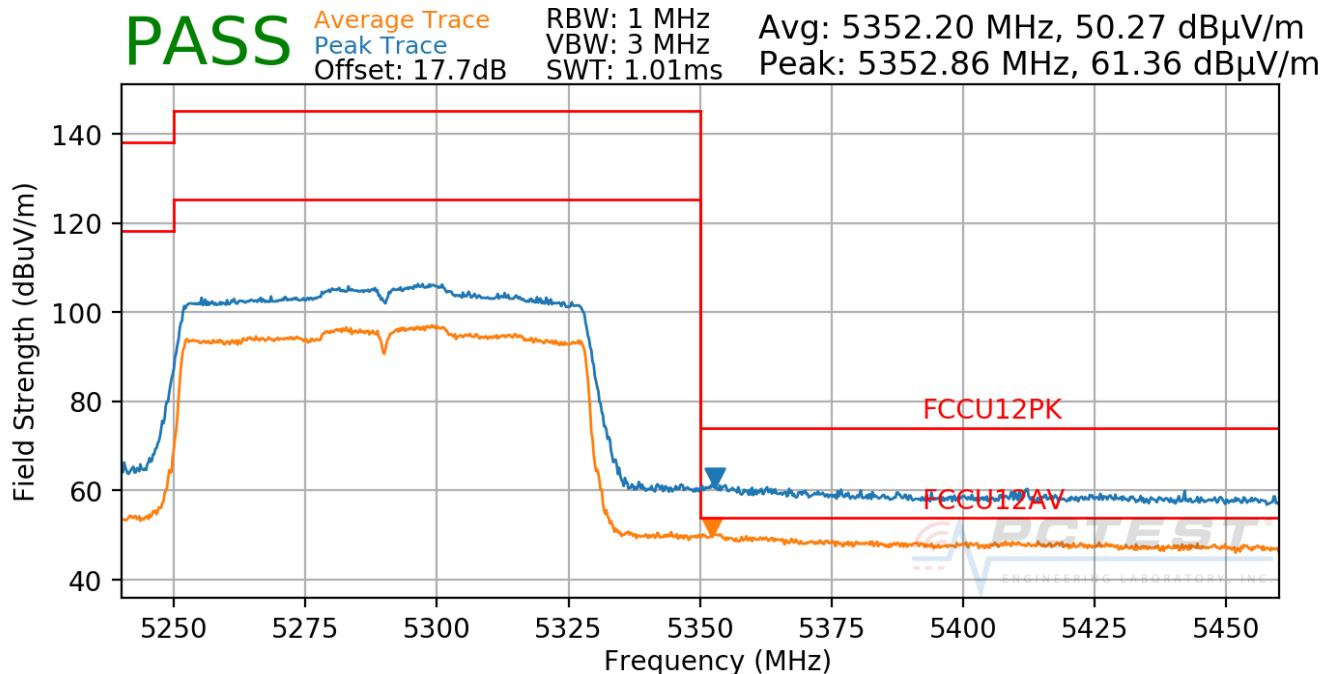
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42



Plot 7-318. Radiated Lower Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 1)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 228 of 259

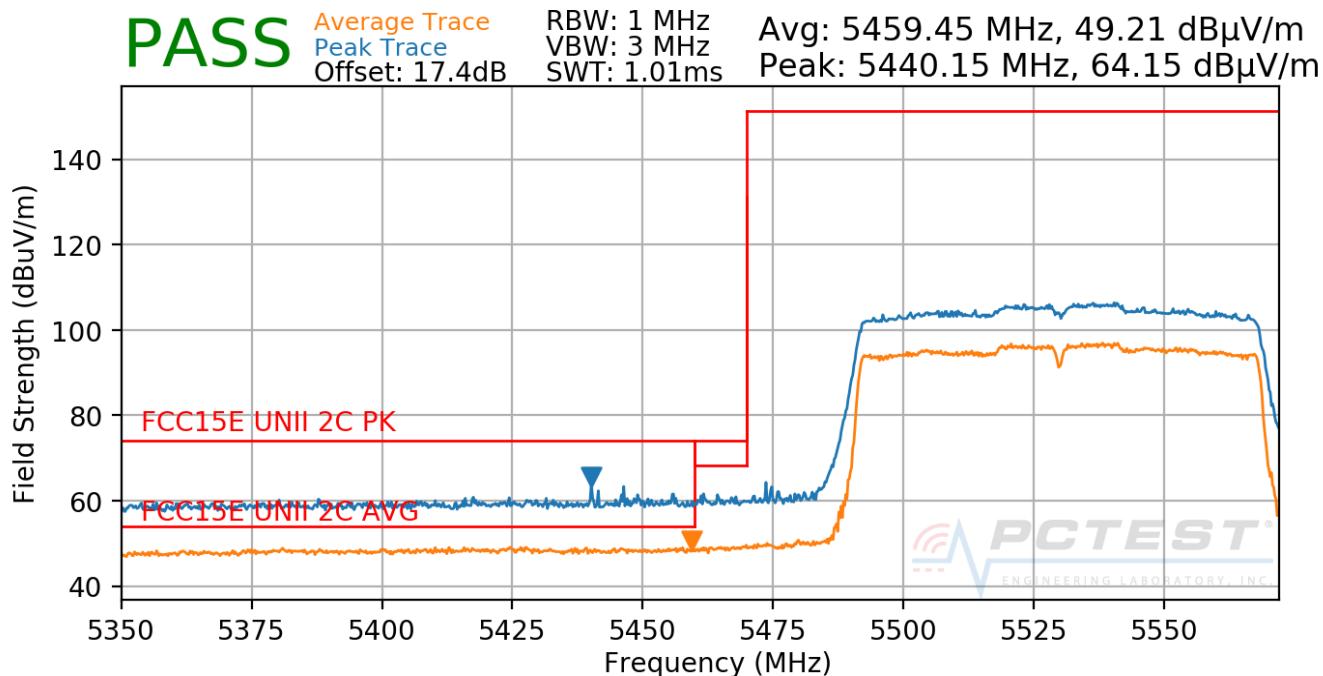
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 7-319. Radiated Upper Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 2A)

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 229 of 259	

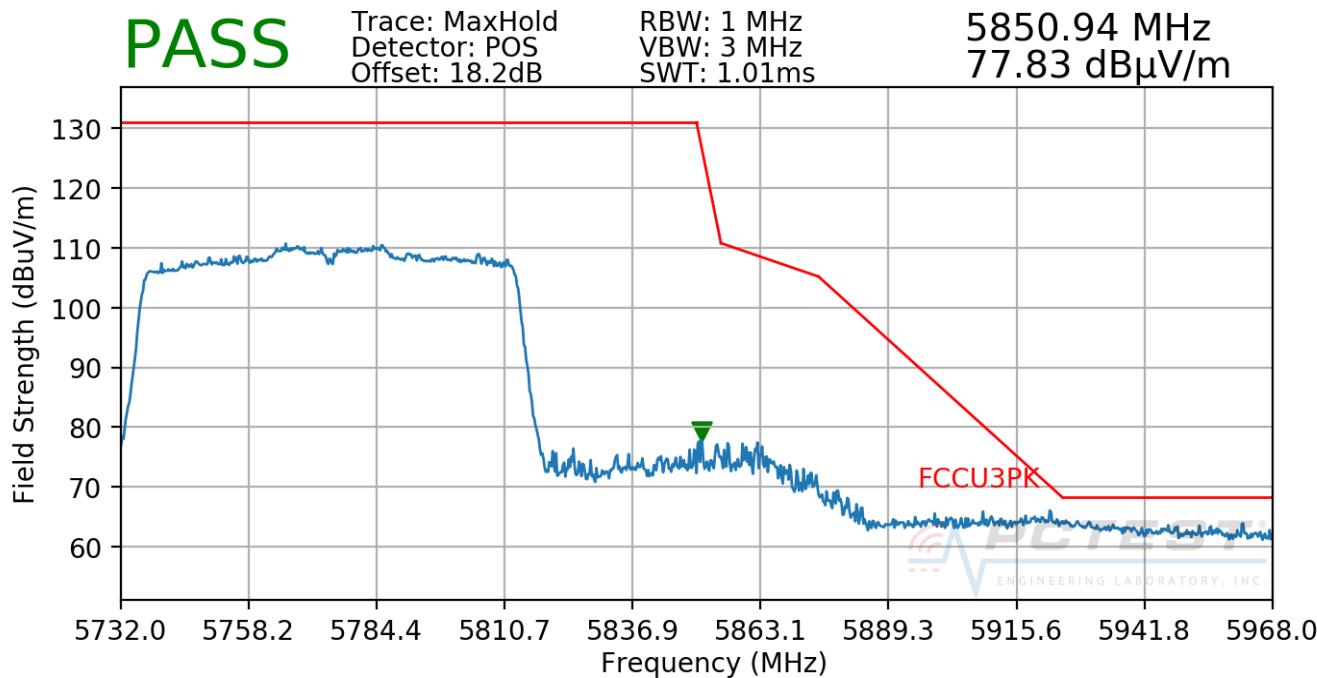
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106



Plot 7-320. Radiated Lower Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 2C)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 230 of 259

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



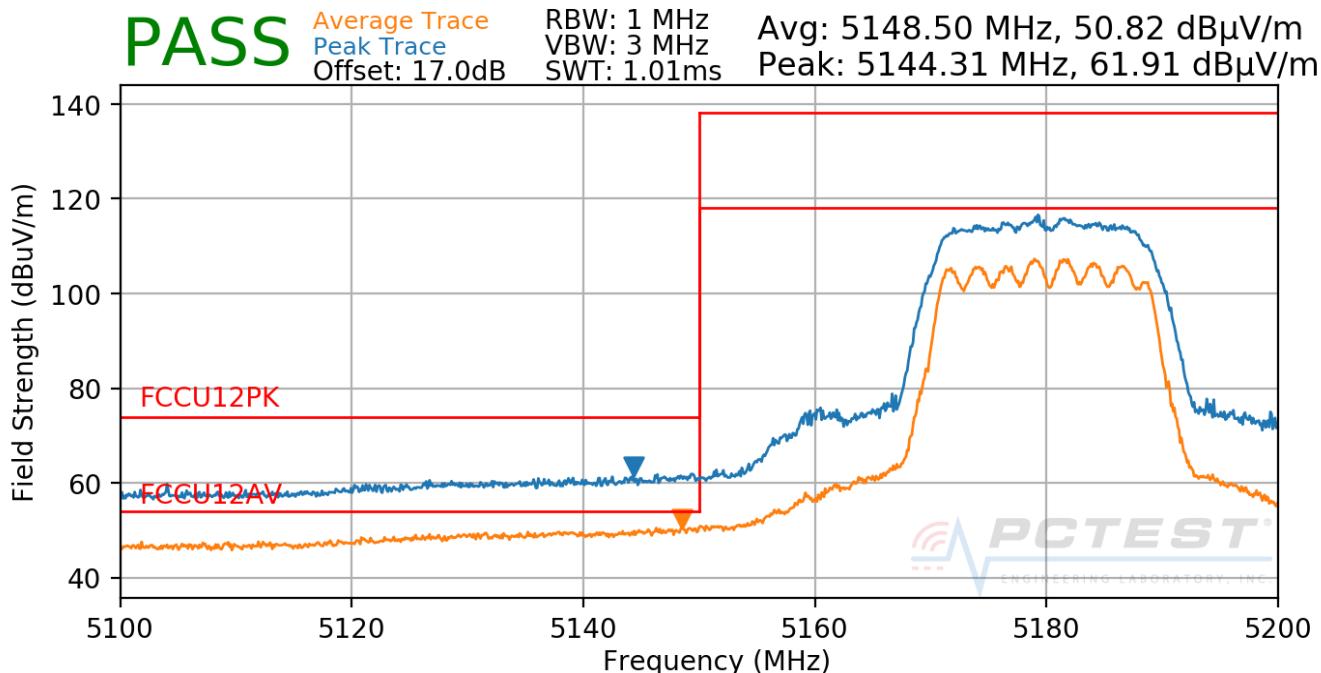
Plot 7-321. Radiated Lower Band Edge Plot SISO ANT2 (Average & Peak – UNII Band 3)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 231 of 259

6.7.10 MIMO Radiated Band Edge Measurements (20MHz BW)

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

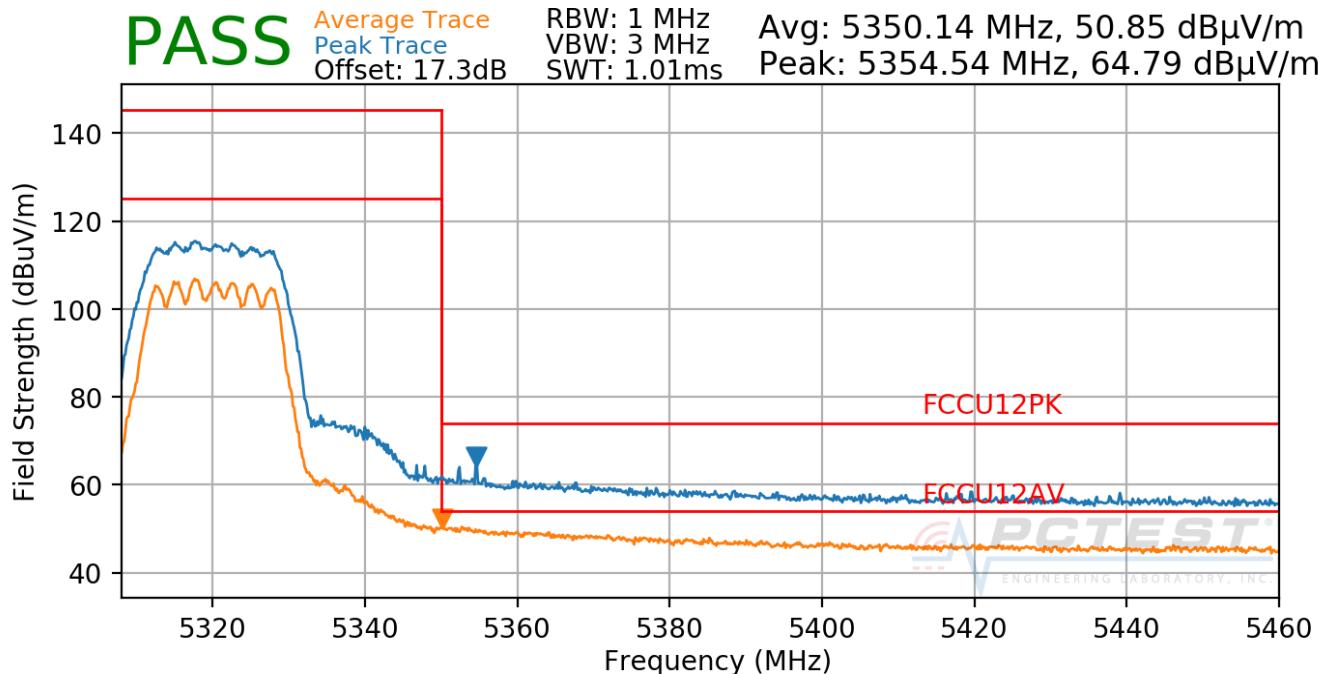
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36



Plot 7-322. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 232 of 259

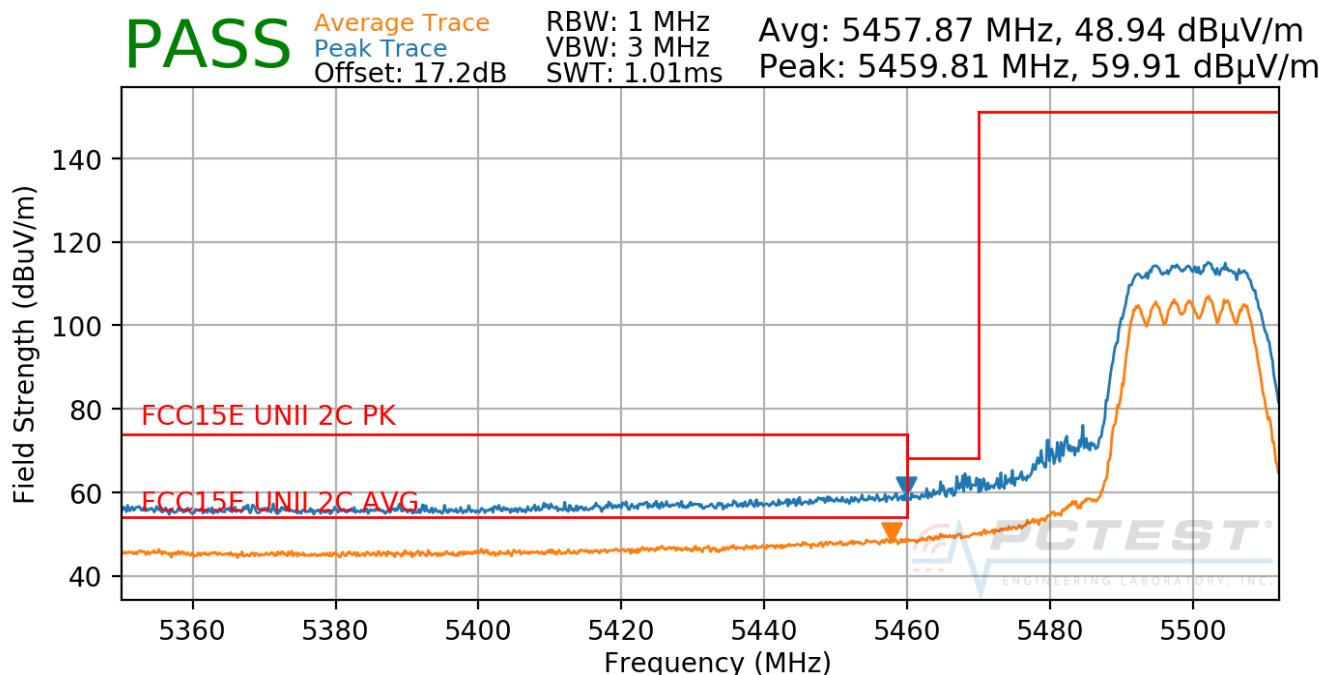
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5320MHz
Channel: 64



Plot 7-323. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A)

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 233 of 259	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Plot 7-324. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2C)

FCC ID: BCGA1954	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-06.BCG	Test Dates: 10/31-2/15/2018	EUT Type: Tablet Device	Page 234 of 259