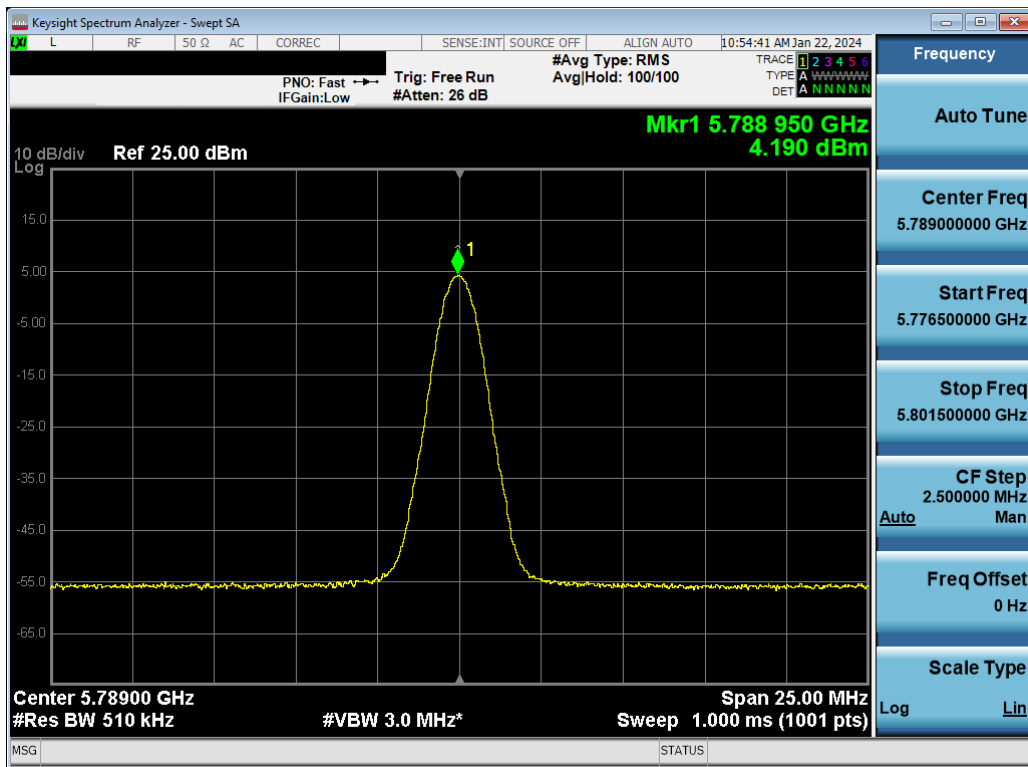


Plot 7-78. PSD TxBF Antenna WF8 (BDR GFSK, iPA 5789MHz)



Plot 7-79. ISED PSD TxBF Antenna WF7a (BDR GFSK, iPA 5789MHz)

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Note:

Per ANSI C63.10-2013 Subclause 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna WF8 and Antenna WF7a were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample TxBF Calculation:

Assuming the average conducted power spectral density was measured to be 1.17 dBm for Antenna WF8 and -0.57 dBm for Antenna WF7a.

$$\text{Antenna WF8} + \text{Antenna WF7a} = \text{TxBF}$$

$$(1.17 \text{ dBm} + -0.57 \text{ dBm}) = (1.309 \text{ mW} + 0.877 \text{ mW}) = 2.186 \text{ mW} = 3.39 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5162MHz, the average conducted power spectral density was measured to be 3.39 dBm with an Antenna gain of 5.15 dBi.

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

$$3.39 \text{ dBm} + 5.15 \text{ dBi} = 8.54 \text{ dBm}$$

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7.6 Radiated Spurious Emission – 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 and power schemes 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 band: All emissions outside of the 5.15-5.25 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 7-21 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-21. Radiated Limits

Test Procedures Used

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

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Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Field Strength Measurements

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

Test Setup

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

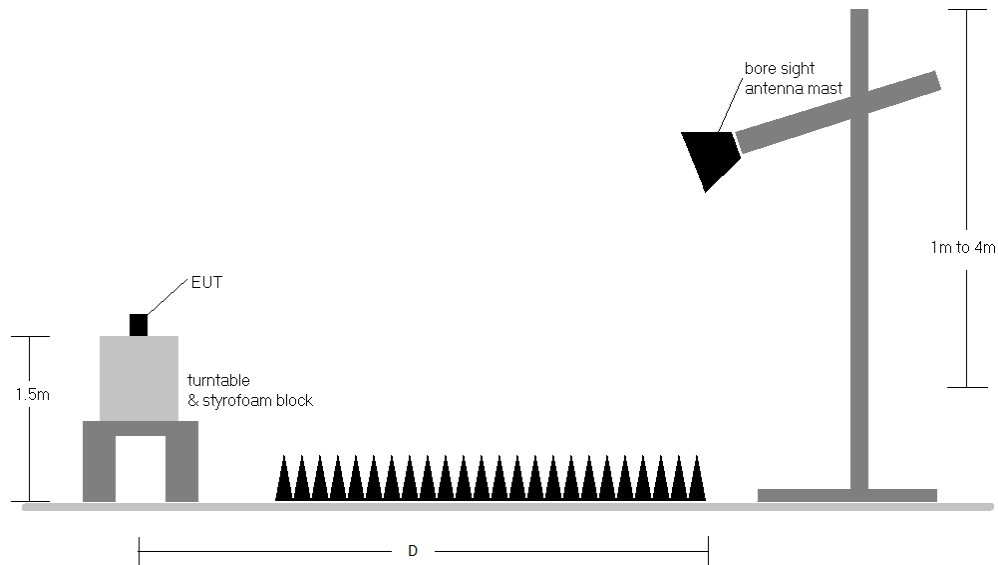


Figure 7-5. Test Instrument & Measurement Setup

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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 7-21.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of SS-Gen are below the limit shown in Table 7-21. 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.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation and power schemes have been tested on the unit and only worst case configuration 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] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

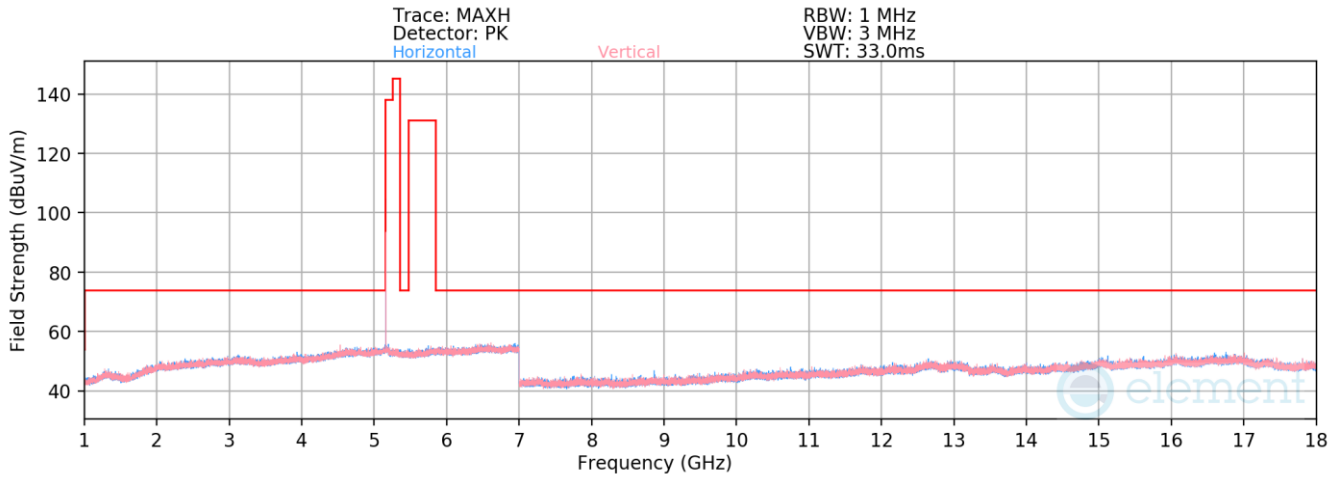
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.1 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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Antenna WF8



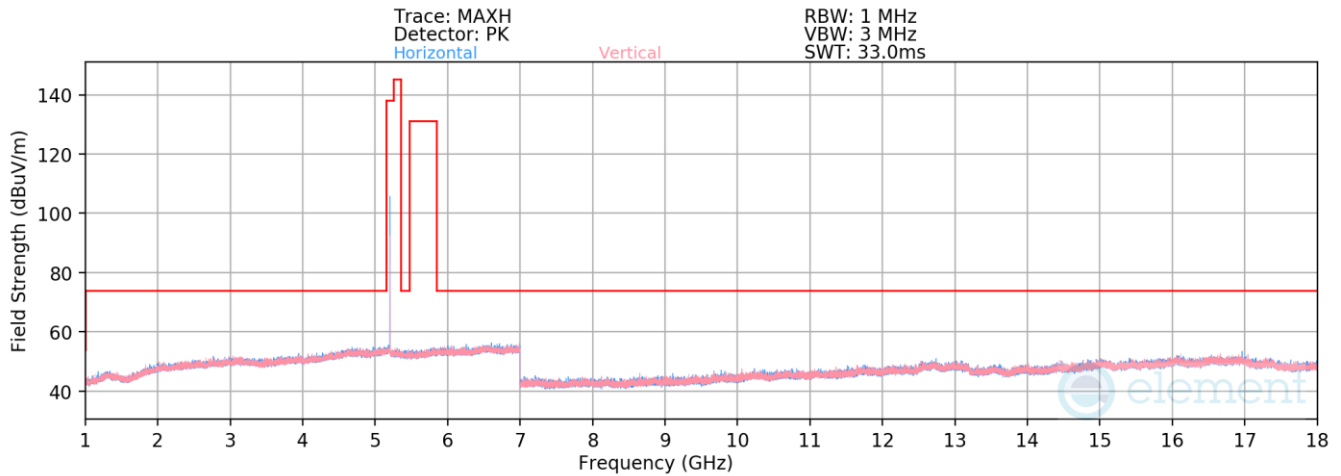
Plot 7-82. Radiated Spurious Emissions 1-18GHz Antenna WF8 (BDR GFSK ePA – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

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]
10324.00	Peak	V	-	-	-65.38	5.91	47.53	68.20	-20.67
* 15486.00	Average	V	-	-	-79.72	12.24	39.52	53.98	-14.46
* 15486.00	Peak	V	-	-	-68.57	12.24	50.67	73.98	-23.31

Table 7-22. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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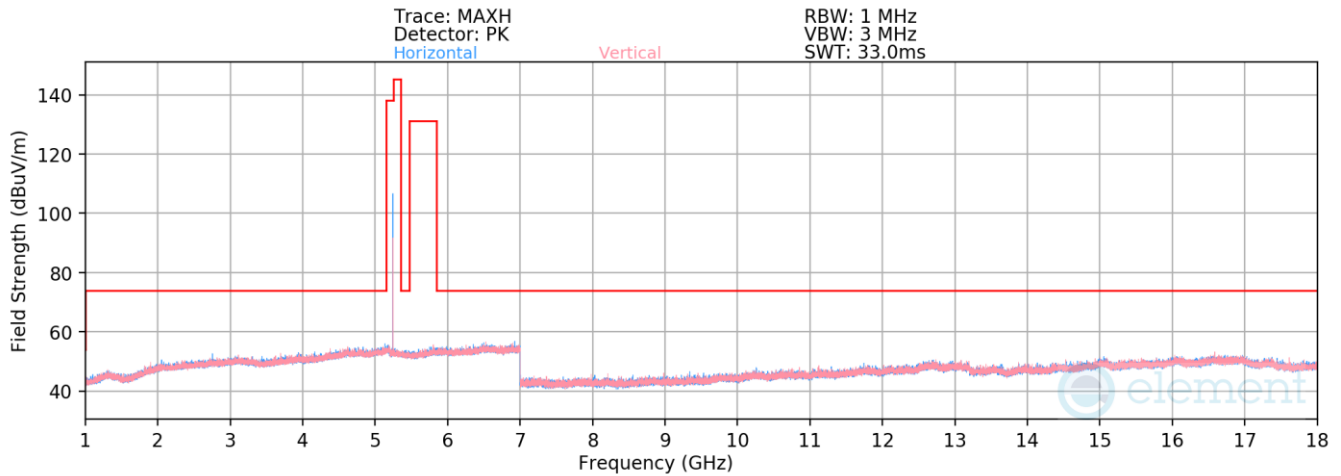
Plot 7-83. Radiated Spurious Emissions 1-18GHz Antenna WF8 (BDR GFSK ePA – 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

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]
10408.00	Peak	V	-	-	-66.74	6.27	46.53	68.20	-21.67
* 15612.00	Average	V	-	-	-79.37	12.66	40.29	53.98	-13.69
* 15612.00	Peak	V	-	-	-68.30	12.66	51.36	73.98	-22.62

Table 7-23. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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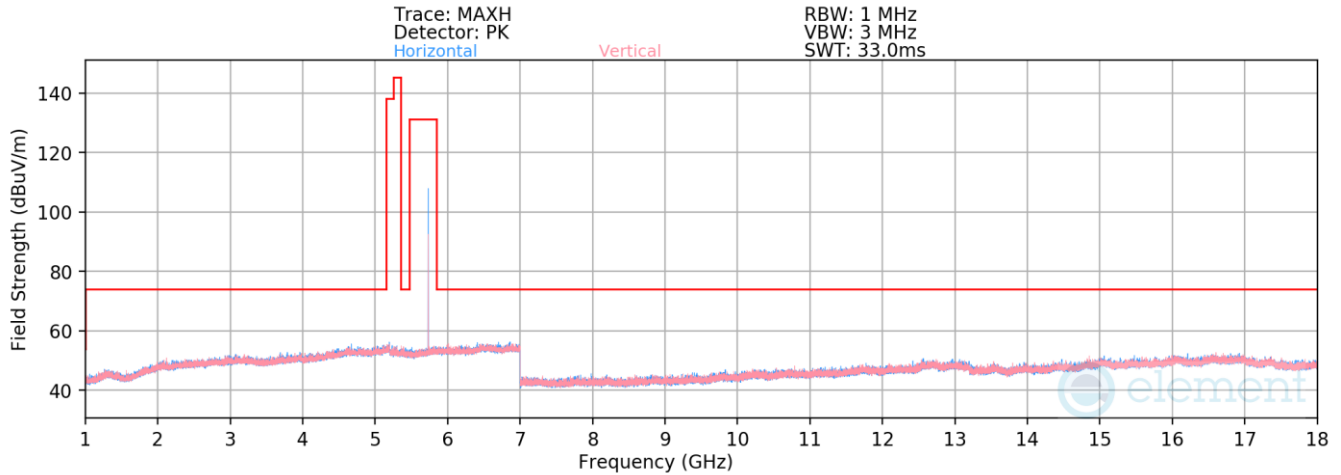
Plot 7-84. Radiated Spurious Emissions 1-18GHz Antenna WF8 (BDR GFSK ePA – 5245MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

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]
10490.00	Peak	V	-	-	-66.32	6.51	47.19	68.20	-21.01
* 15735.00	Average	V	-	-	-80.29	13.10	39.81	53.98	-14.17
* 15735.00	Peak	V	-	-	-68.27	13.10	51.83	73.98	-22.15

Table 7-24. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-85. Radiated Spurious Emissions 1-18GHz Antenna WF8 (BDR GFSK ePA – 5733MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

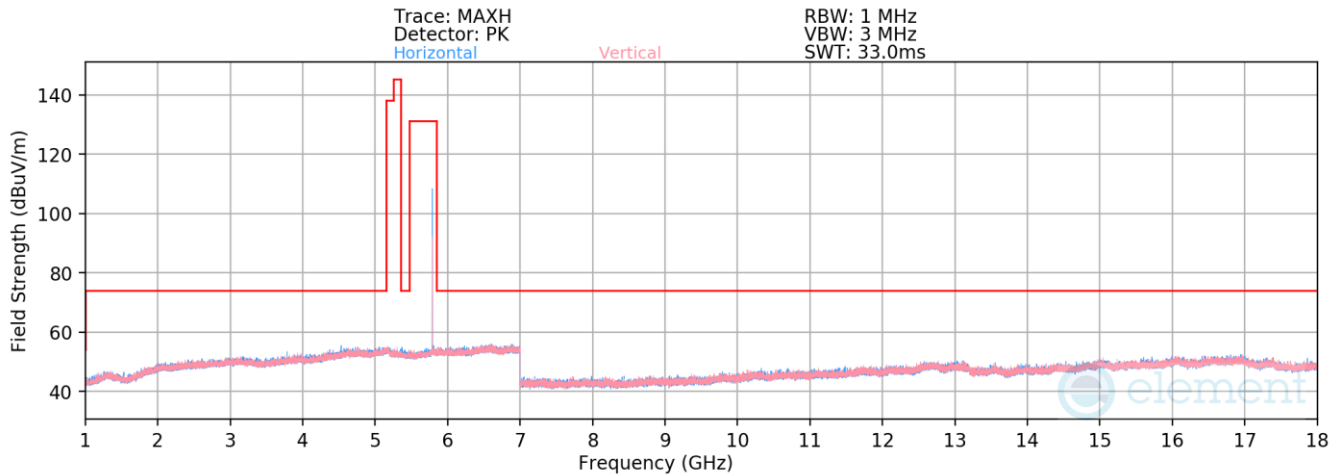
Distance of Measurements: 3 Meters

Operating Frequency: 5733MHz

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]
* 11466.00	Average	V	-	-	-77.97	7.47	36.50	53.98	-17.48
* 11466.00	Peak	V	-	-	-66.35	7.47	48.12	73.98	-25.86
17199.00	Peak	V	-	-	-70.49	14.96	51.47	68.20	-16.73

Table 7-25. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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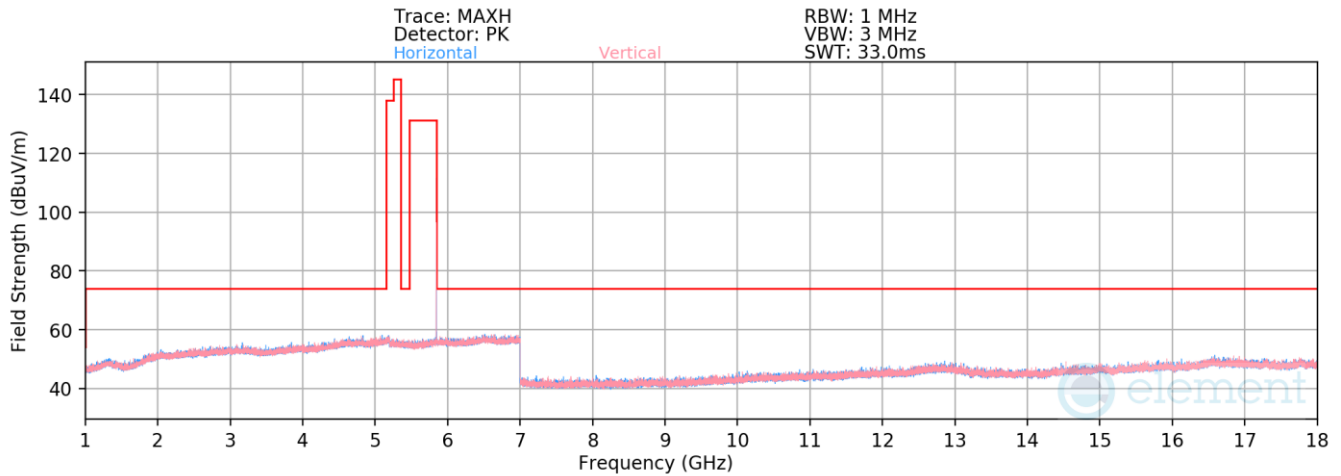
Plot 7-86. Radiated Spurious Emissions 1-18GHz Antenna WF8 (BDR GFSK ePA – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

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]
* 11578.00	Average	V	-	-	-77.64	7.44	36.80	53.98	-17.18
* 11578.00	Peak	V	-	-	-66.25	7.44	48.19	73.98	-25.79
17367.00	Peak	V	-	-	-70.33	14.88	51.55	68.20	-16.65

Table 7-26. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-87. Radiated Spurious Emissions 1-18GHz Antenna WF8 (BDR GFSK ePA – 5844MHz)

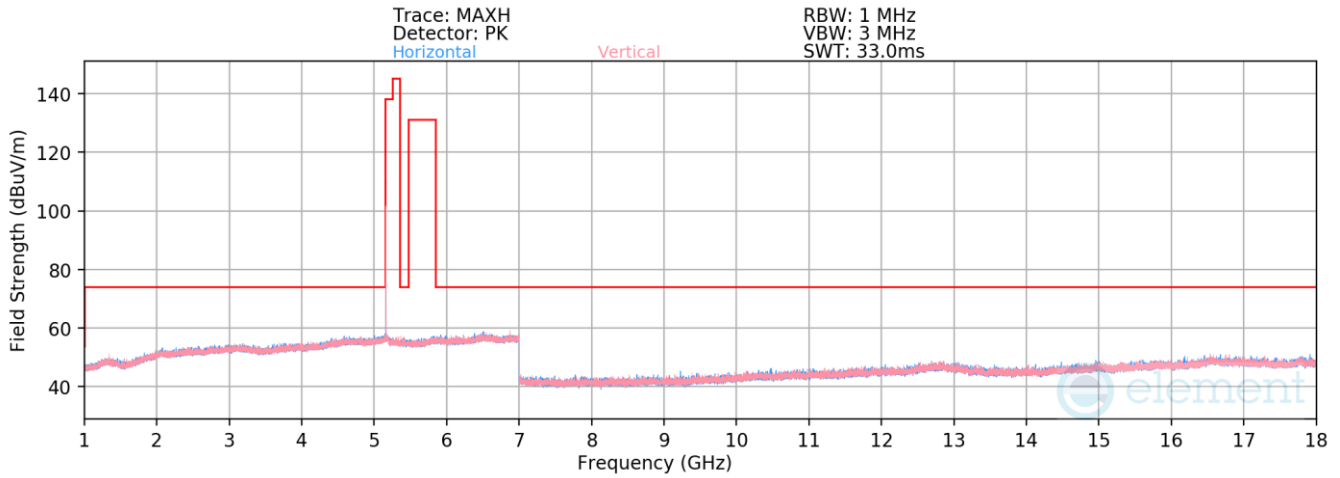
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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]
* 11688.00	Average	V	-	-	-79.68	7.86	35.18	53.98	-18.80
* 11688.00	Peak	V	-	-	-68.46	7.86	46.40	73.98	-27.58
17532.00	Peak	V	-	-	-72.21	15.50	50.29	68.20	-17.91

Table 7-27. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Antenna WF7a



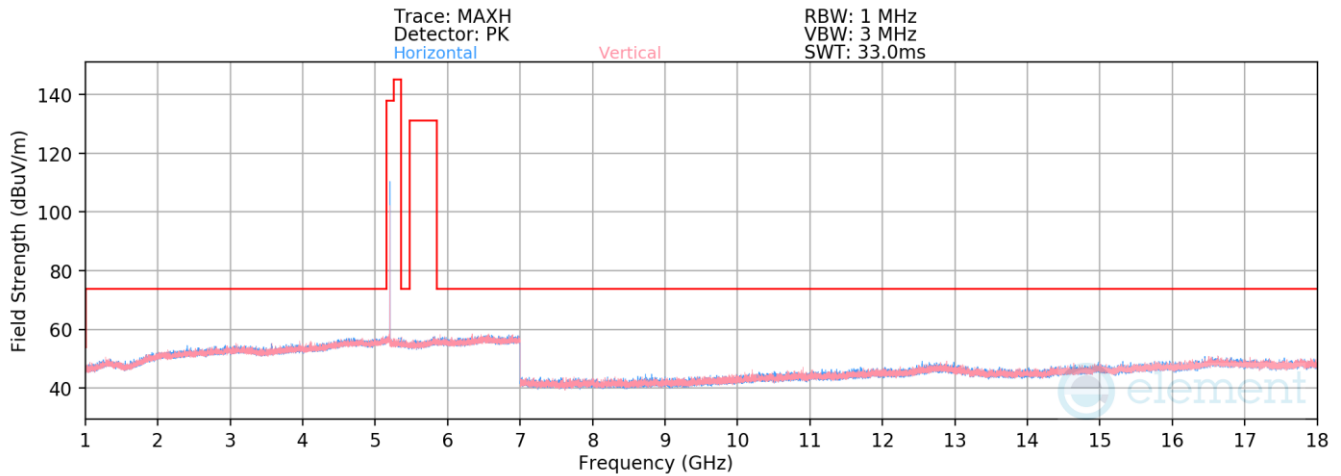
Plot 7-88. Radiated Spurious Emissions 1-18GHz Antenna WF7a (BDR GFSK ePA – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10324.00	Peak	V	-	-	-66.59	5.91	46.32	68.20	-21.88
* 15486.00	Average	V	-	-	-81.68	12.24	37.56	53.98	-16.42
* 15486.00	Peak	V	-	-	-69.91	12.24	49.33	73.98	-24.65

Table 7-28. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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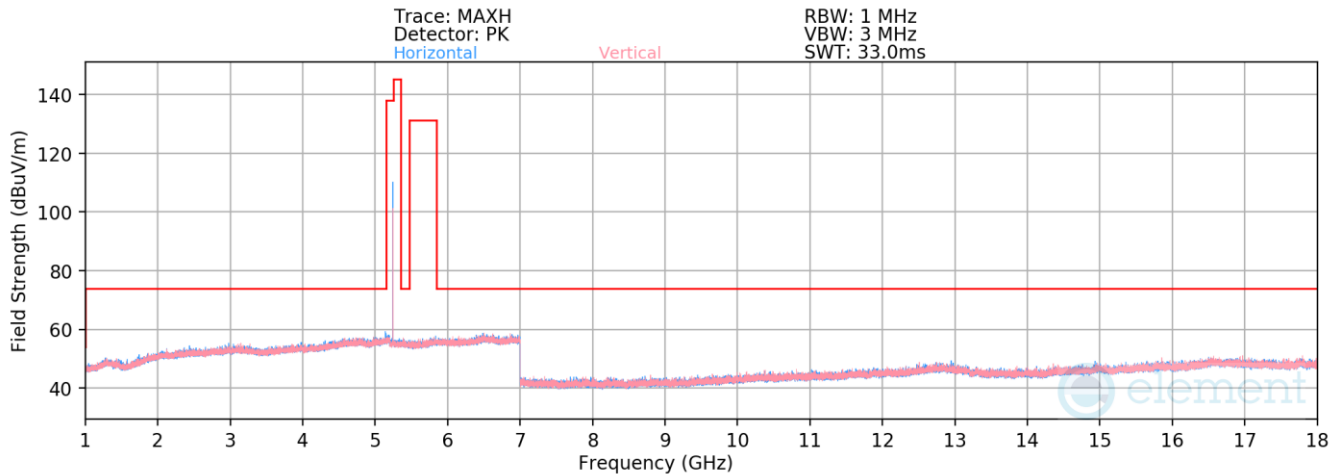
Plot 7-89. Radiated Spurious Emissions 1-18GHz Antenna WF7a (BDR GFSK ePA – 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

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]
10408.00	Peak	V	-	-	-67.54	6.27	45.73	68.20	-22.47
* 15612.00	Average	V	-	-	-81.39	12.66	38.27	53.98	-15.71
* 15612.00	Peak	V	-	-	-69.52	12.66	50.14	73.98	-23.84

Table 7-29. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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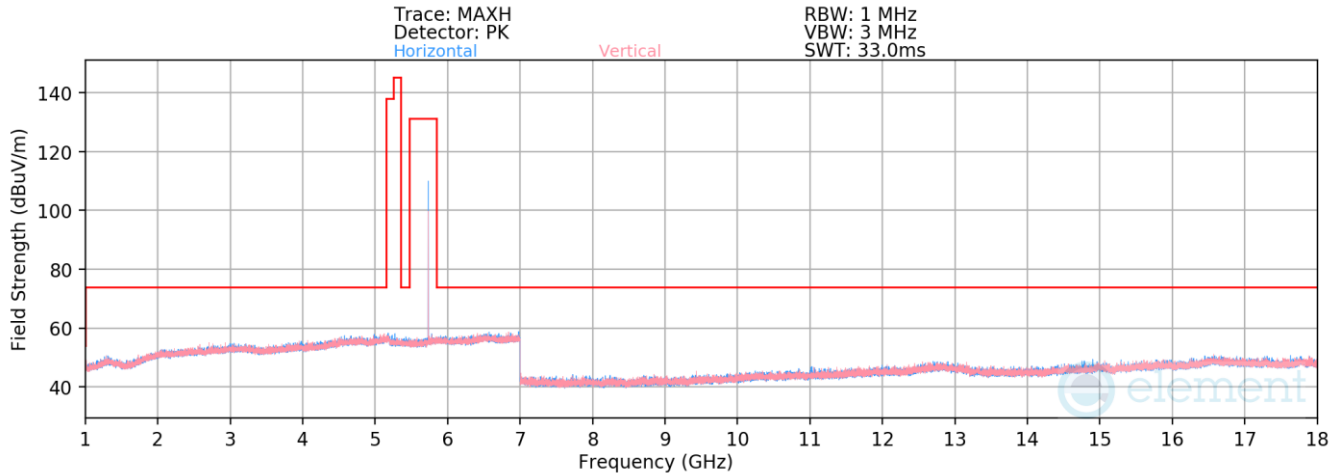
Plot 7-90. Radiated Spurious Emissions 1-18GHz Antenna WF7a (BDR GFSK ePA - 5245MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

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]
10490.00	Peak	V	-	-	-67.89	6.51	45.62	68.20	-22.58
* 15735.00	Average	V	-	-	-82.01	13.10	38.09	53.98	-15.89
* 15735.00	Peak	V	-	-	-70.28	13.10	49.82	73.98	-24.16

Table 7-30. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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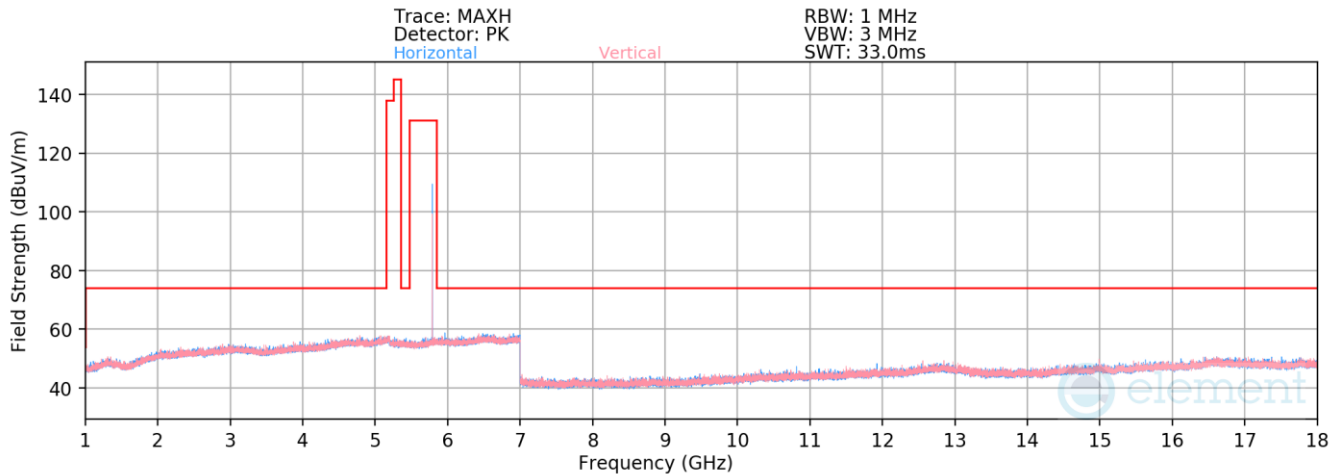
Plot 7-91. Radiated Spurious Emissions 1-18GHz WF7a (BDR GFSK ePA – 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

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]
* 11466.00	Average	V	-	-	-79.66	7.47	34.81	53.98	-19.17
* 11466.00	Peak	V	-	-	-68.25	7.47	46.22	73.98	-27.76
17199.00	Peak	V	-	-	-71.55	14.96	50.41	68.20	-17.79

Table 7-31. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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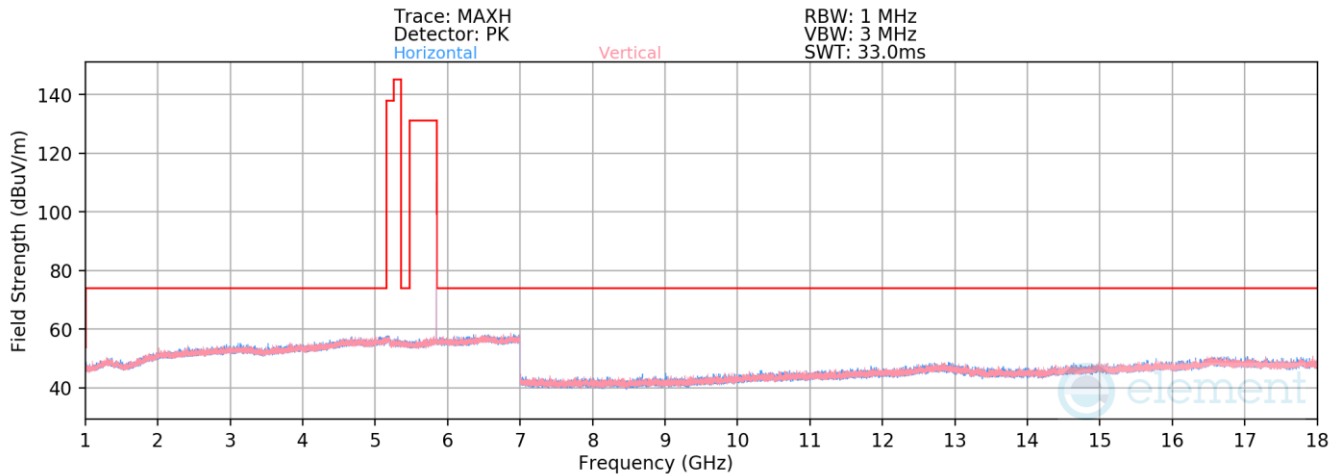
Plot 7-92. Radiated Spurious Emissions 1-18GHz Antenna WF7a (BDR GFSK ePA – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

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]
* 11578.00	Average	V	-	-	-79.29	7.44	35.15	53.98	-18.83
* 11578.00	Peak	V	-	-	-67.56	7.44	46.88	73.98	-27.10
17367.00	Peak	V	-	-	-71.82	14.88	50.06	68.20	-18.14

Table 7-32. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-93. Radiated Spurious Emissions 1-18GHz Antenna WF7a (BDR GFSK ePA – 5844MHz)

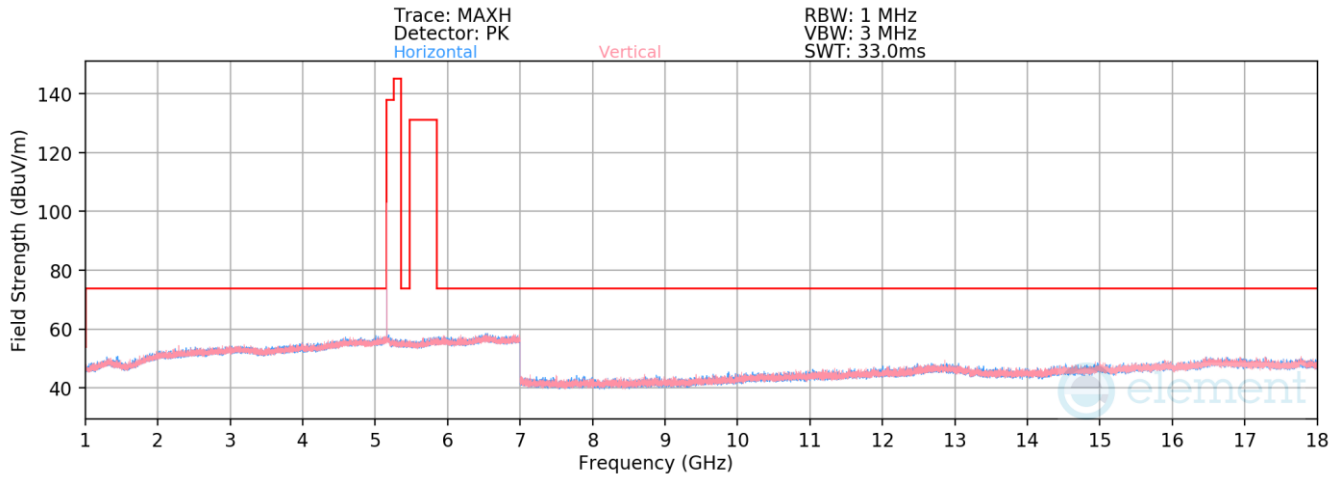
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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]
* 11688.00	Average	V	-	-	-79.53	7.86	35.33	53.98	-18.65
* 11688.00	Peak	V	-	-	-68.68	7.86	46.18	73.98	-27.80
17532.00	Peak	V	-	-	-71.14	15.50	51.36	68.20	-16.84

Table 7-33. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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TxBF



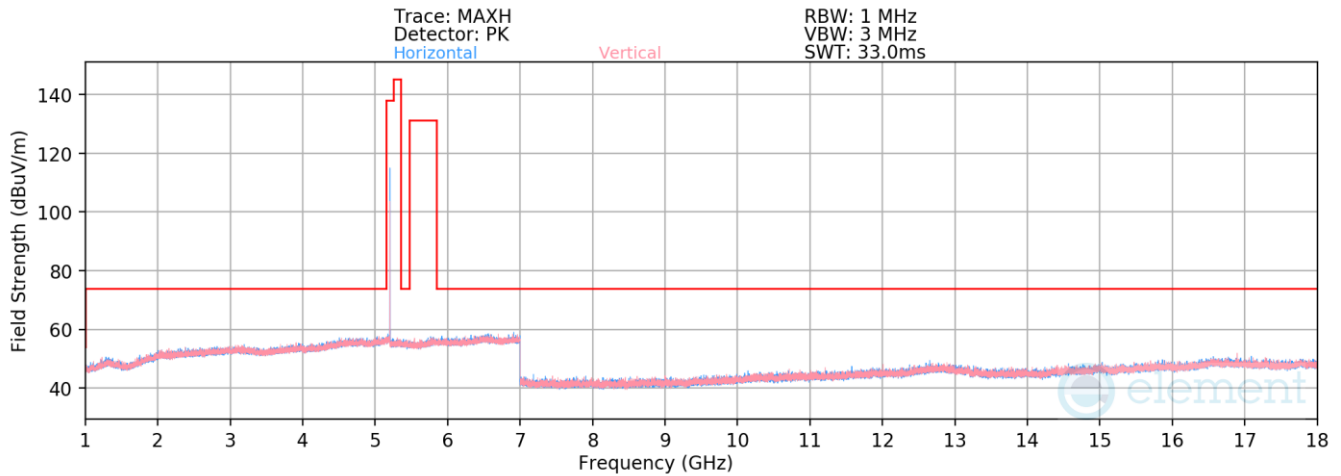
Plot 7-94. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

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]
10324.00	Peak	V	-	-	-67.27	5.91	45.64	68.20	-22.56
* 15486.00	Average	V	-	-	-81.73	12.24	37.51	53.98	-16.47
* 15486.00	Peak	V	-	-	-70.63	12.24	48.61	73.98	-25.37

Table 7-34. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 88 of 112



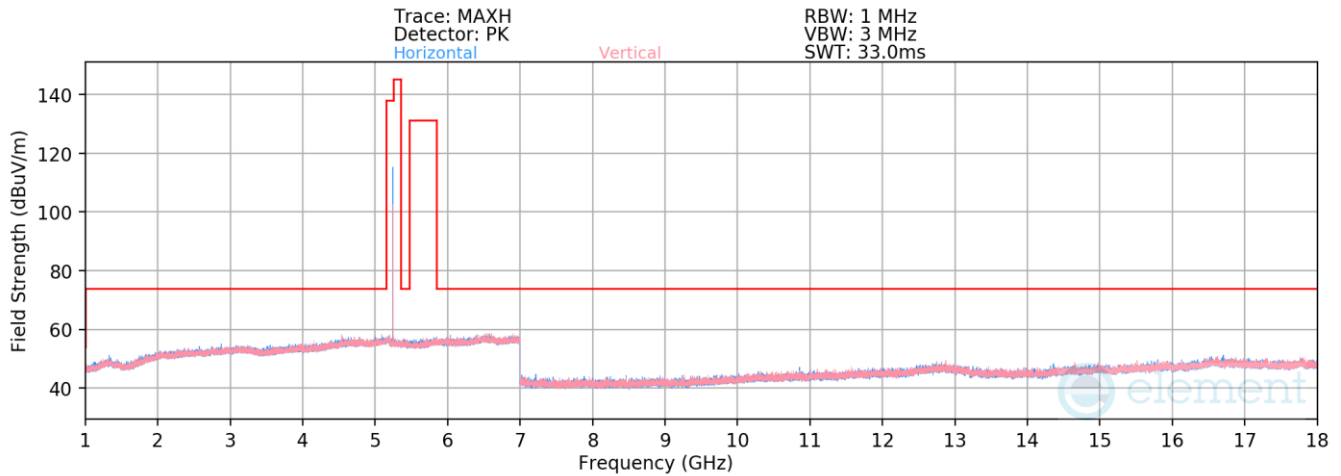
Plot 7-95. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

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]
10408.00	Peak	V	-	-	-67.77	6.27	45.50	68.20	-22.70
* 15612.00	Average	V	-	-	-81.72	12.66	37.94	53.98	-16.04
* 15612.00	Peak	V	-	-	-70.03	12.66	49.63	73.98	-24.35

Table 7-35. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 89 of 112



Plot 7-96. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5245MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

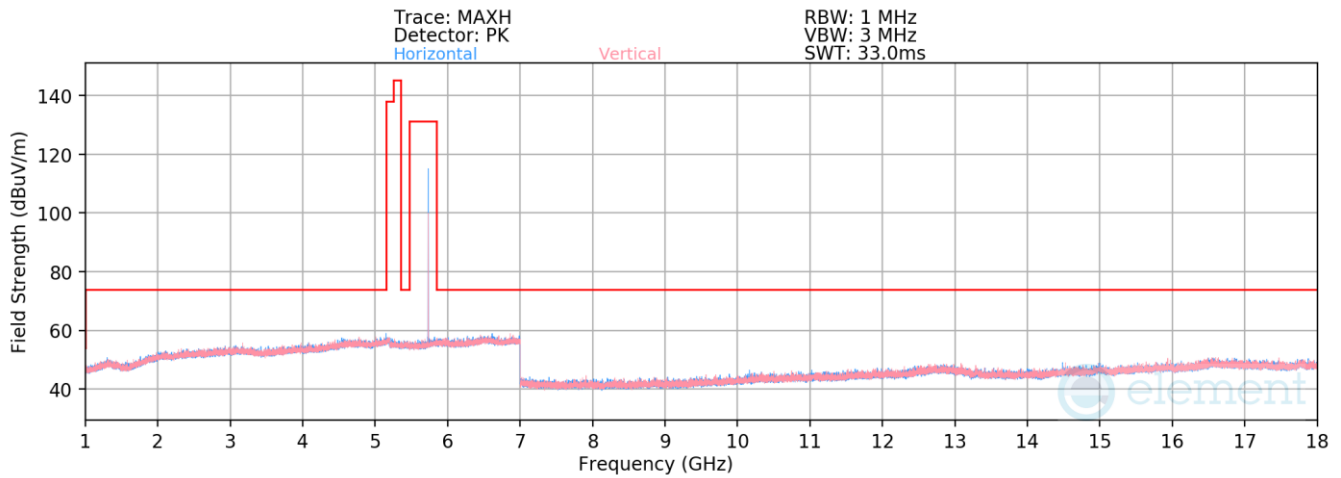
Distance of Measurements: 3 Meters

Operating Frequency: 5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10490.00	Peak	V	-	-	-67.54	6.51	45.97	68.20	-22.23
* 15735.00	Average	V	-	-	-82.09	13.10	38.01	53.98	-15.97
* 15735.00	Peak	V	-	-	-70.64	13.10	49.46	73.98	-24.52

Table 7-36. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 90 of 112



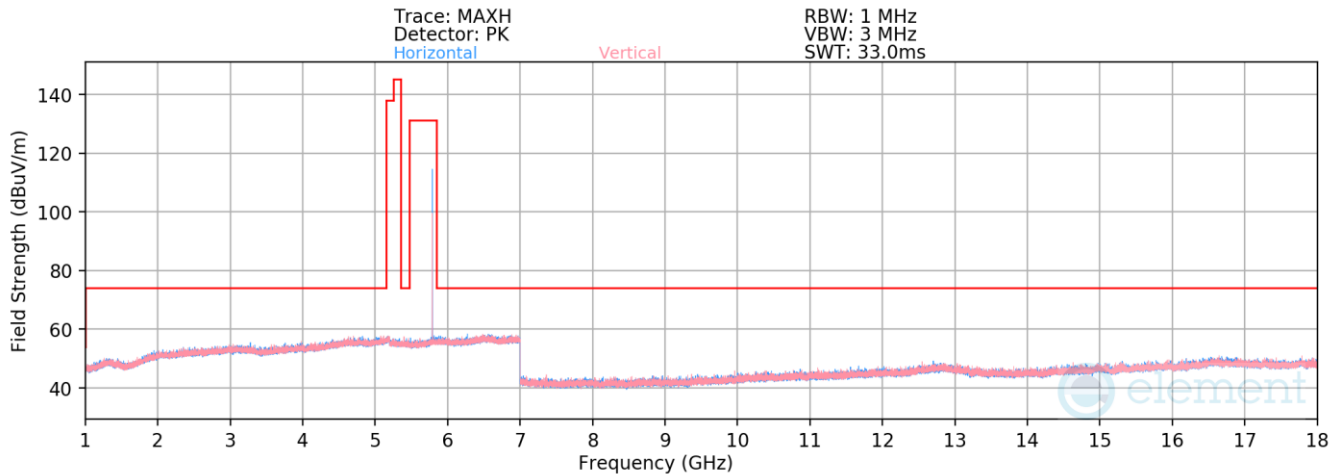
Plot 7-97. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11466.00	Average	V	-	-	-79.40	7.47	35.07	53.98	-18.91
* 11466.00	Peak	V	-	-	-68.53	7.47	45.94	73.98	-28.04
17199.00	Peak	V	-	-	-71.14	14.96	50.82	68.20	-17.38

Table 7-37. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 91 of 112



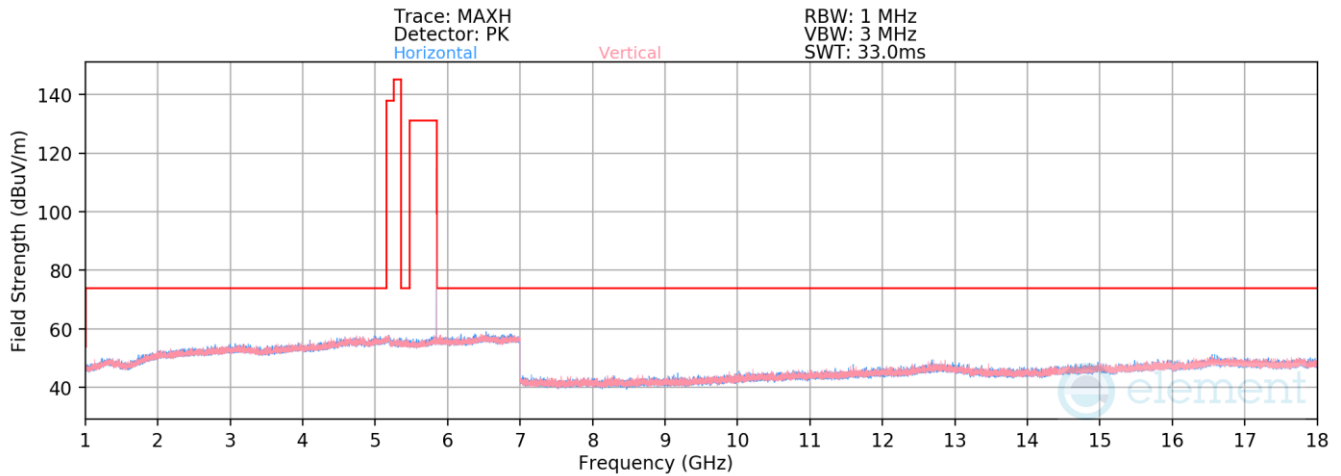
Plot 7-98. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

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]
* 11578.00	Average	V	-	-	-79.27	7.44	35.17	53.98	-18.81
* 11578.00	Peak	V	-	-	-67.81	7.44	46.63	73.98	-27.35
17367.00	Peak	V	-	-	-71.86	14.88	50.02	68.20	-18.18

Table 7-38. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 92 of 112



Plot 7-99. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5844MHz)

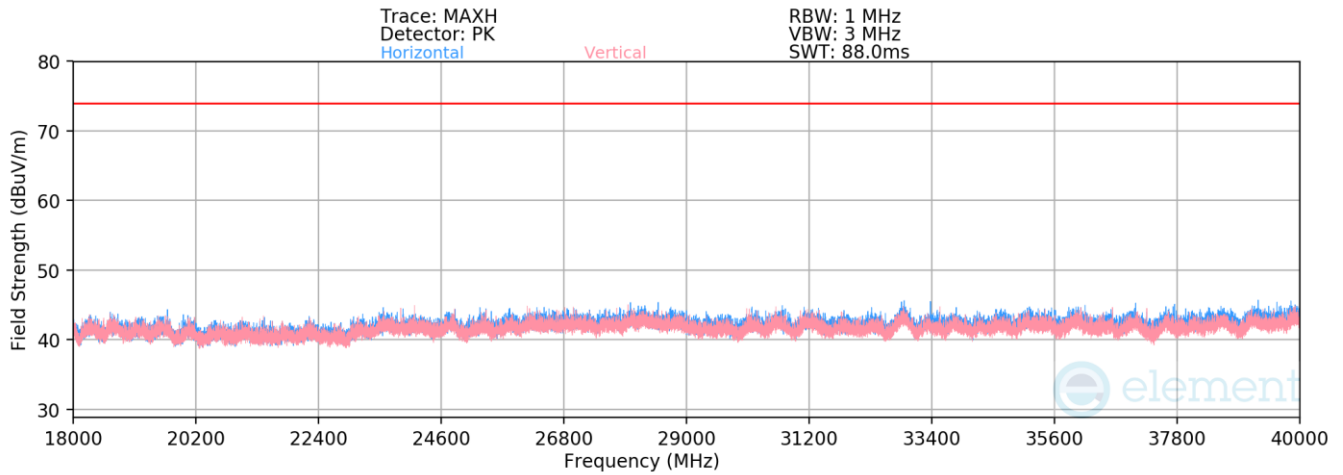
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11688.00	Average	V	-	-	-79.74	7.86	35.12	53.98	-18.86
* 11688.00	Peak	V	-	-	-68.38	7.86	46.48	73.98	-27.50
17532.00	Peak	V	-	-	-71.98	15.50	50.52	68.20	-17.68

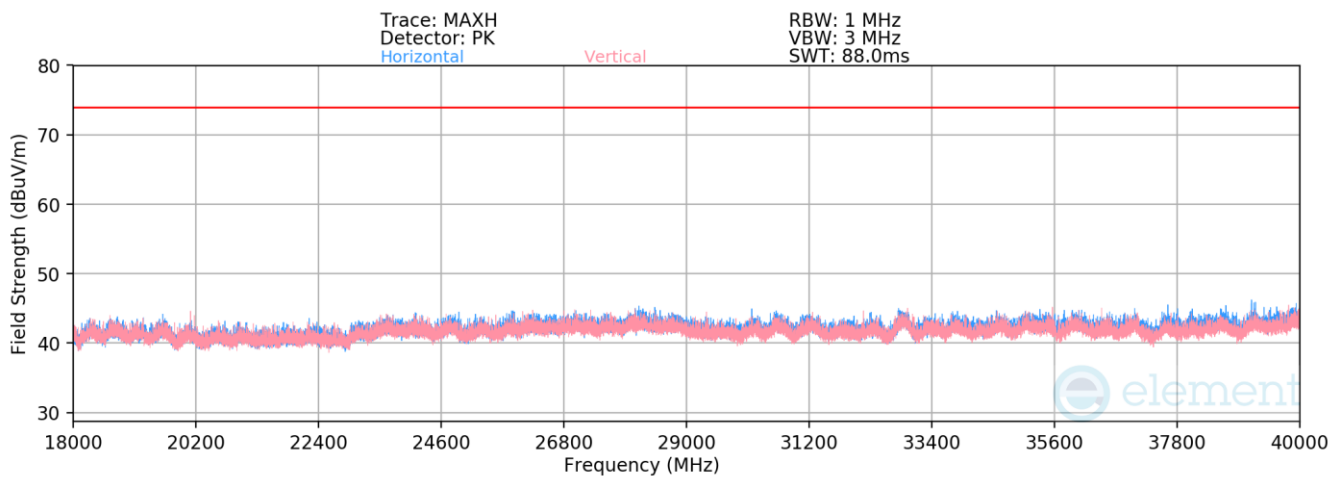
Table 7-39. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 93 of 112

Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-100. Radiated Spurious Emissions Above 18GHz TxBF (BDR GFSK ePA – 5204MHz)



Plot 7-101. Radiated Spurious Emissions Above 18GHz TxBF (BDR GFSK ePA – 5789MHz)

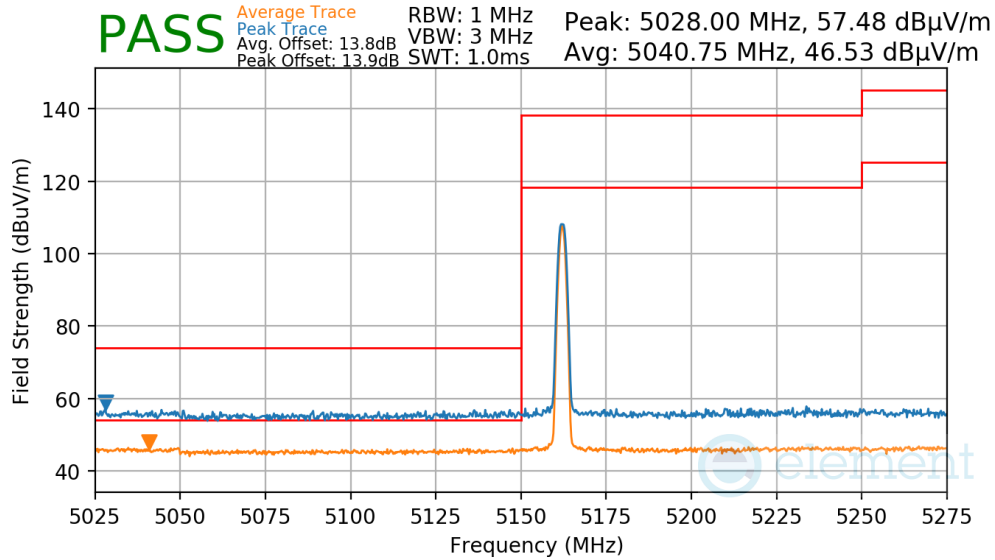
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 94 of 112

7.6.1 Radiated Band Edge Measurements

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

Antenna WF8

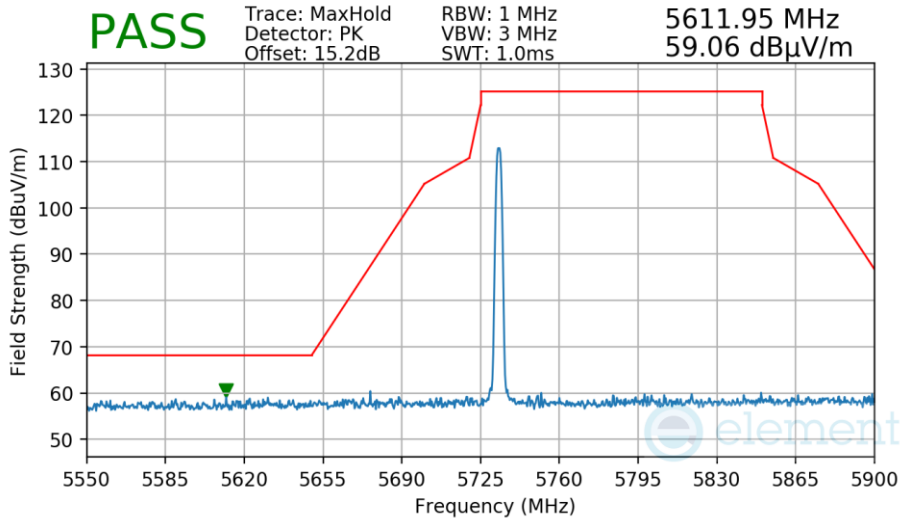
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-102. Radiated Lower Band Edge Measurement Antenna WF8

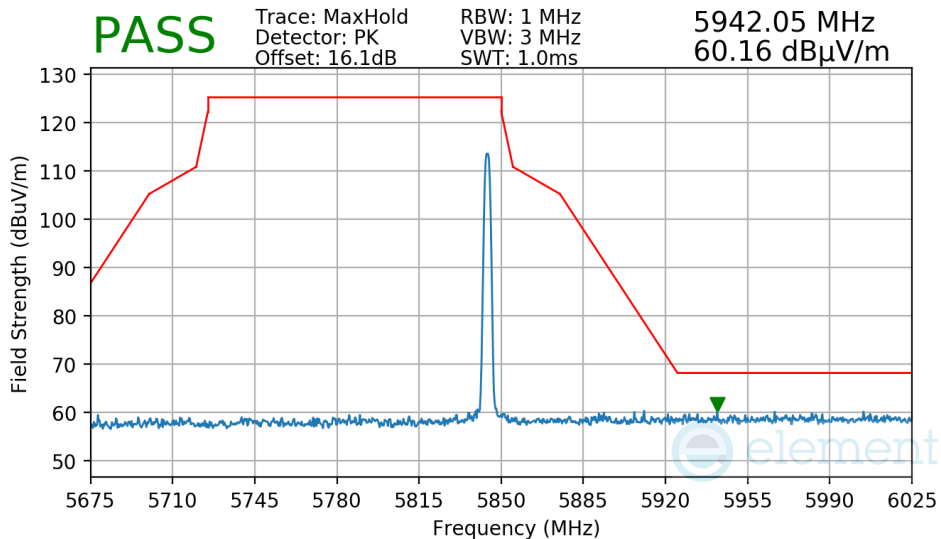
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 95 of 112

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-103. Radiated Lower Band Edge Measurement Antenna WF8

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



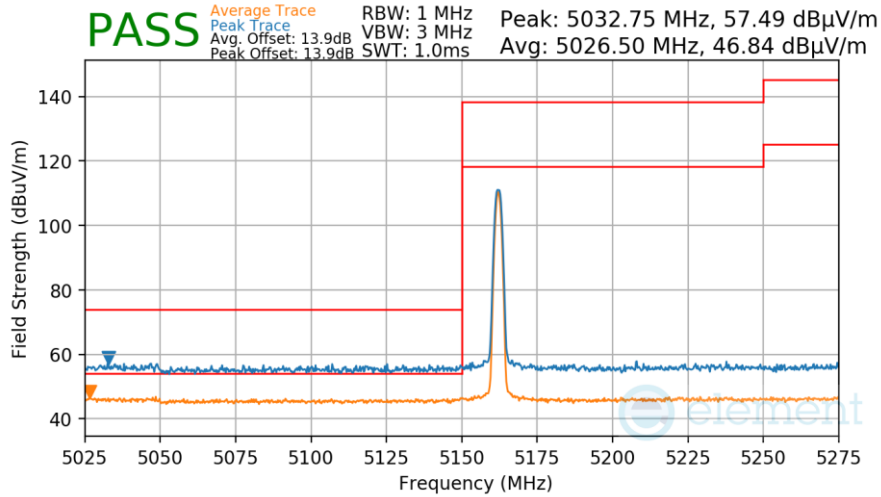
Plot 7-104. Radiated Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 96 of 112

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

Antenna WF7a

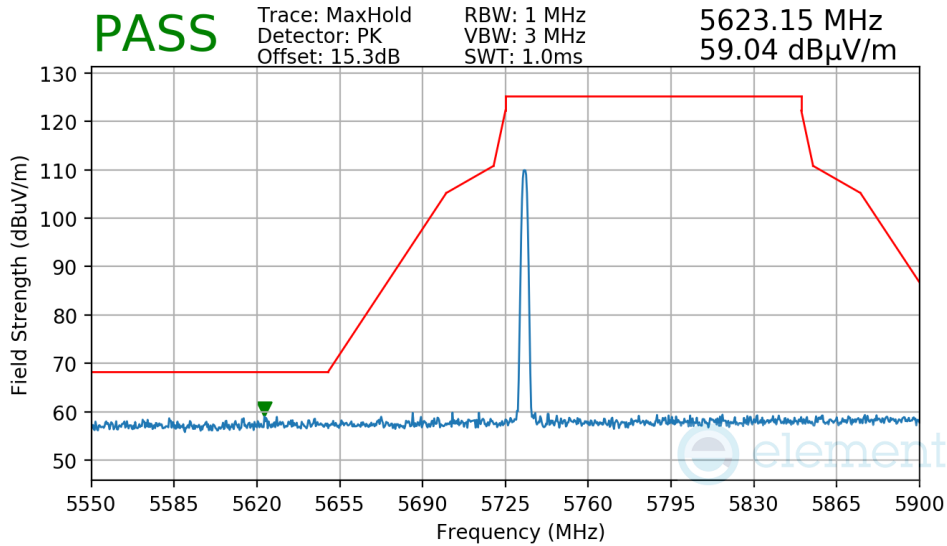
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-105. Radiated Lower Band Edge Measurement Antenna WF7a

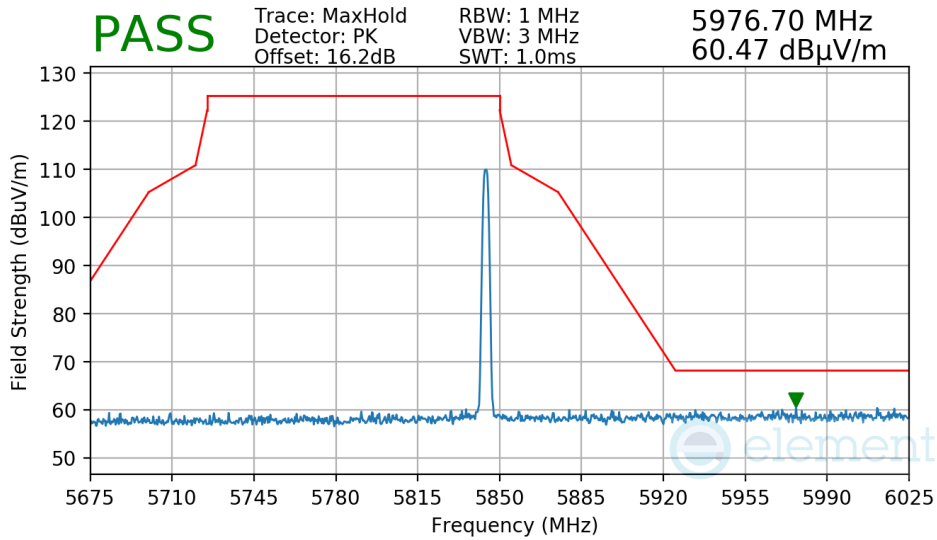
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 97 of 112

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-106. Radiated Lower Band Edge Measurement Antenna WF7a

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



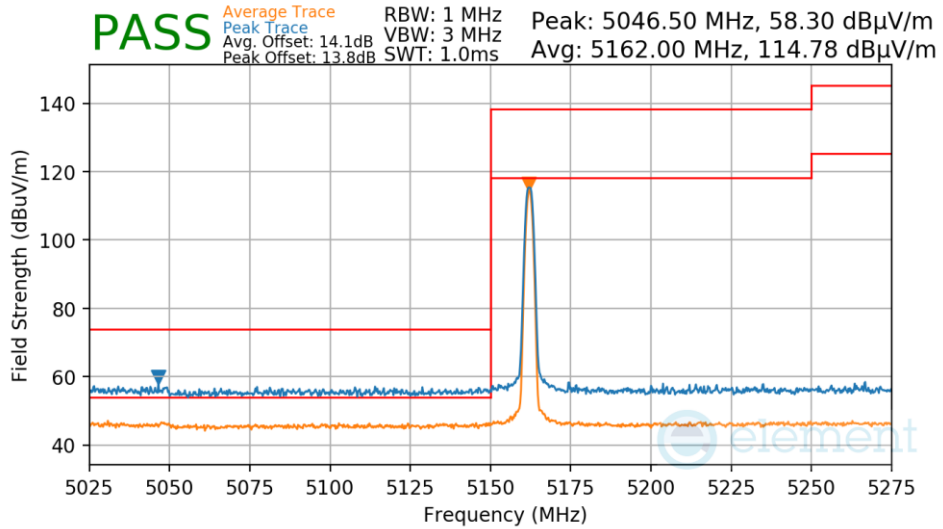
Plot 7-107. Radiated Upper Band Edge Measurement Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 98 of 112

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

TxBF

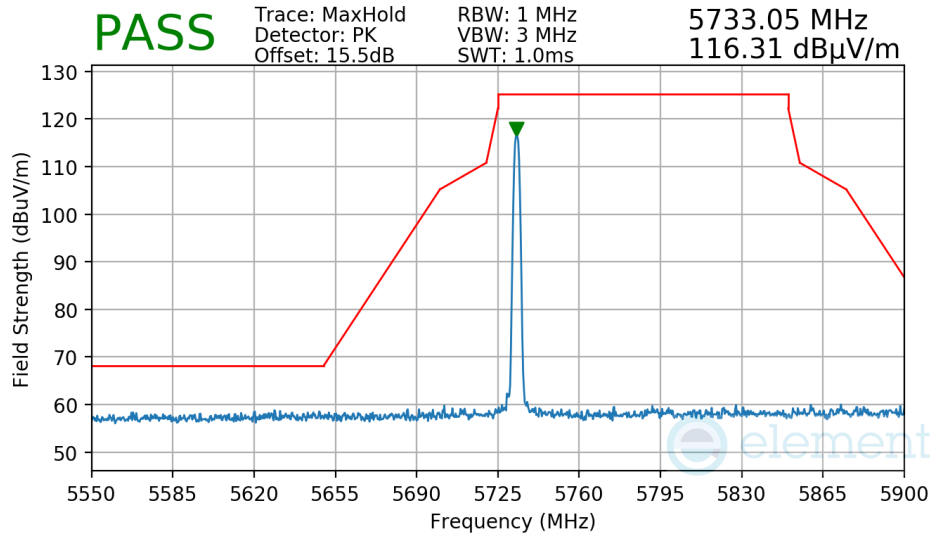
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-108. Radiated Lower Band Edge Measurement TxBF

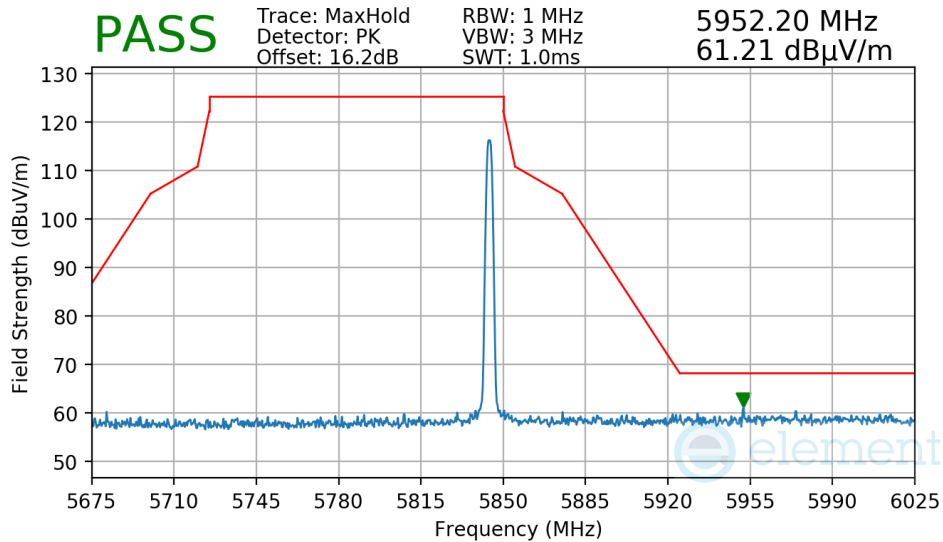
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 99 of 112

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-109. Radiated Lower Band Edge Measurement TxBF

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-110. Radiated Upper Band Edge Measurement TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 100 of 112

7.7 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-40 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-40. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

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

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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V 10.5 12/15/2021

Test Setup

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

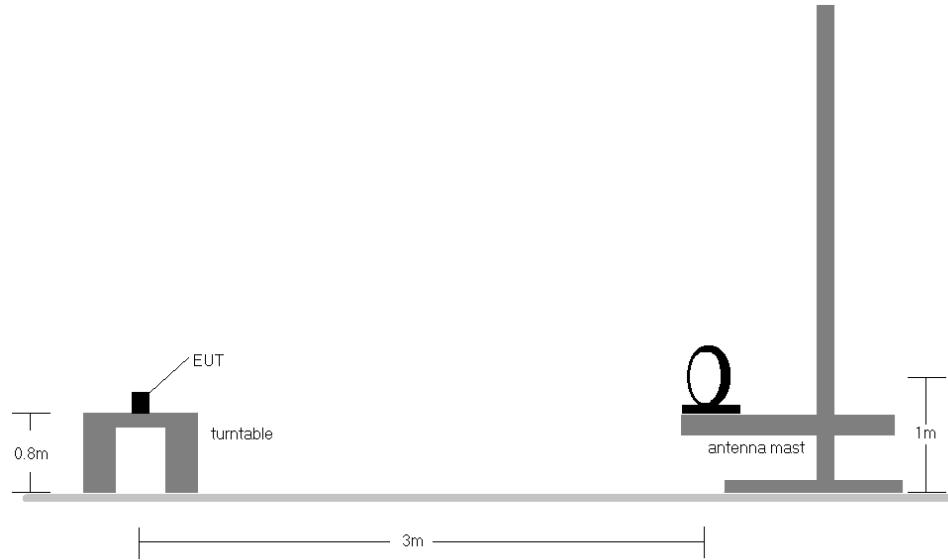


Figure 7-6. Radiated Test Setup < 30MHz

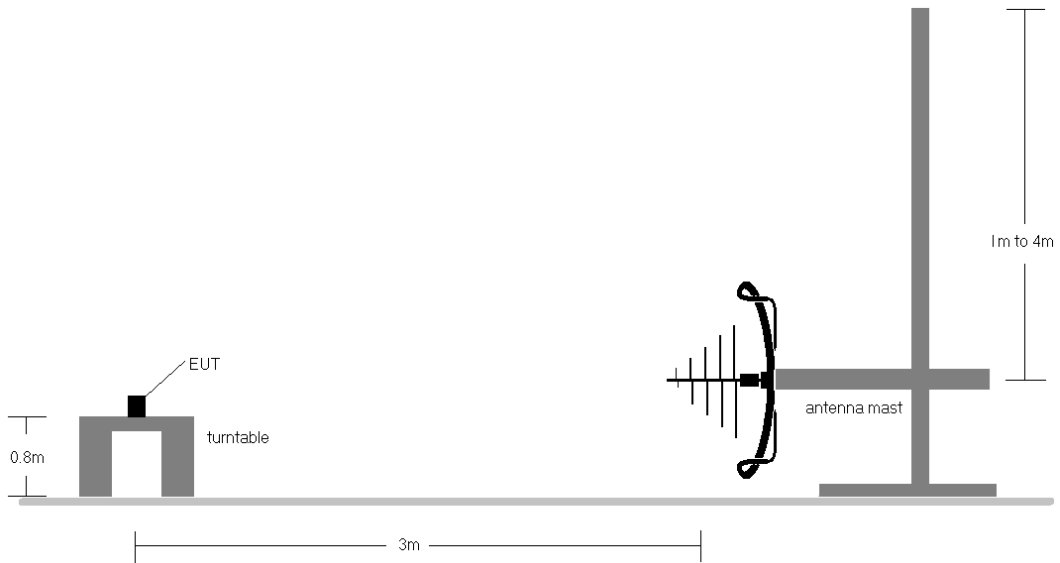


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 102 of 112

V 10.5 12/15/2021

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-40.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

Determining Spurious Emissions Levels

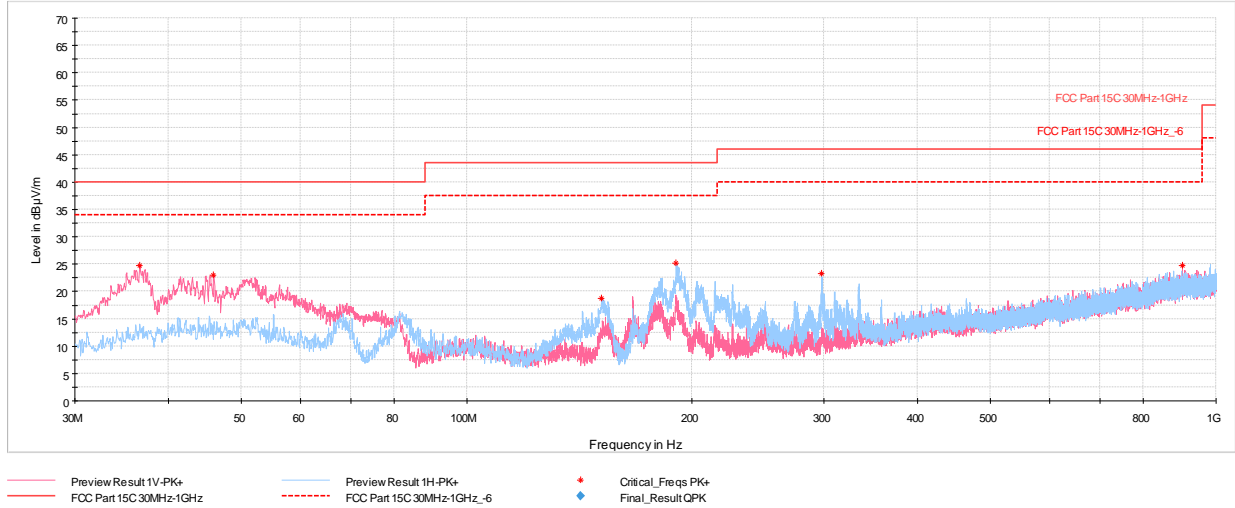
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

FCC ID: BCGA2902 IC: 579C-A2902	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 103 of 112

Radiated Spurious Emissions (Below 1GHz)

§15.209; RSS-Gen [8.9]

TxBF

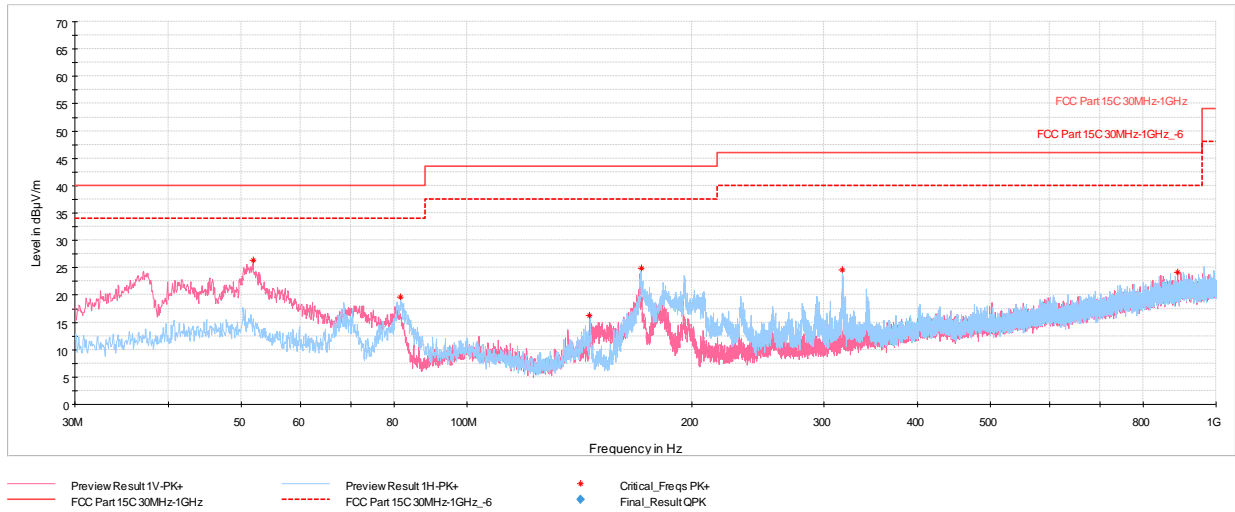


Plot 7-111. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5204MHz), with AC/DC Adapter

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]
36.64	Max-Peak	V	100	291	-66.88	-15.32	24.80	40.00	-15.20
45.96	Max-Peak	V	100	0	-70.49	-13.46	23.05	40.00	-16.95
151.40	Max-Peak	H	200	242	-68.15	-20.14	18.71	43.52	-24.81
190.39	Max-Peak	H	200	40	-64.30	-17.44	25.26	43.52	-18.26
297.57	Max-Peak	H	100	13	-69.10	-14.55	23.35	46.02	-22.67
901.88	Max-Peak	V	100	8	-79.55	-2.70	24.75	46.02	-21.27

Table 7-41. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5204MHz), with AC/DC Adapter

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-112. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5789MHz), with AC/DC Adapter

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]
51.87	Max-Peak	V	100	28	-67.53	-13.13	26.34	40.00	-13.66
81.70	Max-Peak	H	200	275	-66.54	-20.85	19.61	40.00	-20.39
145.87	Max-Peak	V	100	176	-70.25	-20.54	16.21	43.52	-27.31
170.94	Max-Peak	H	100	223	-62.94	-19.23	24.83	43.52	-18.69
317.22	Max-Peak	H	100	33	-68.48	-13.93	24.59	46.02	-21.43
889.13	Max-Peak	V	200	207	-80.24	-2.67	24.09	46.02	-21.93

Table 7-42. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5789MHz), with AC/DC Adapter

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-08.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 105 of 112

7.8 AC Line Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. All data rates and modes were investigated for AC Line conducted spurious emissions.

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

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

Table 7-43. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak Measurements

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

Average Measurements

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

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

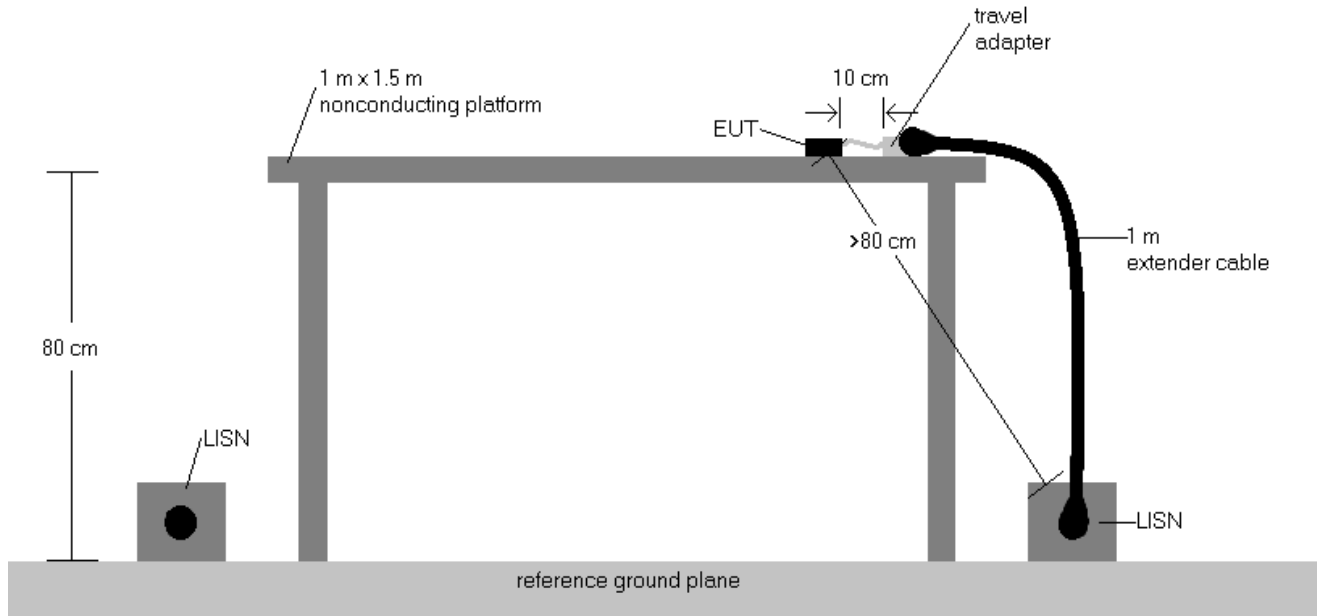


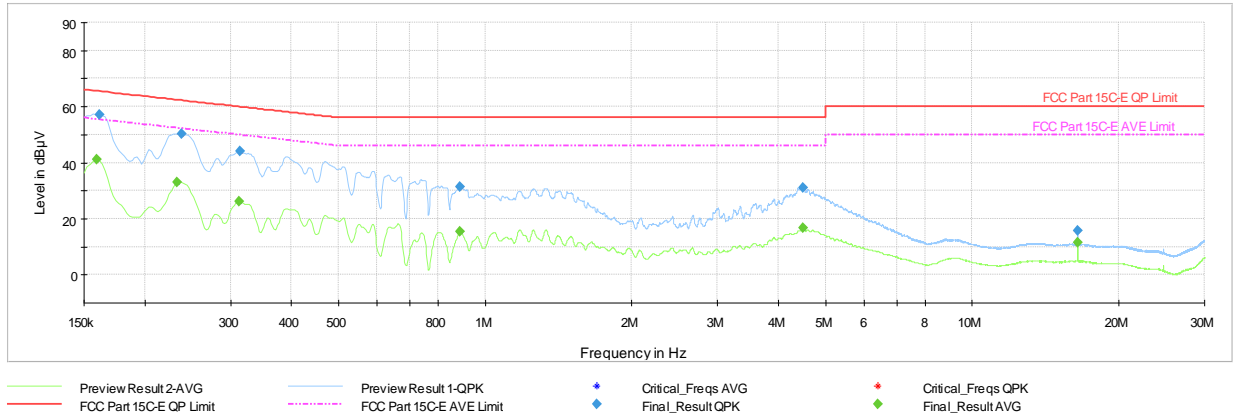
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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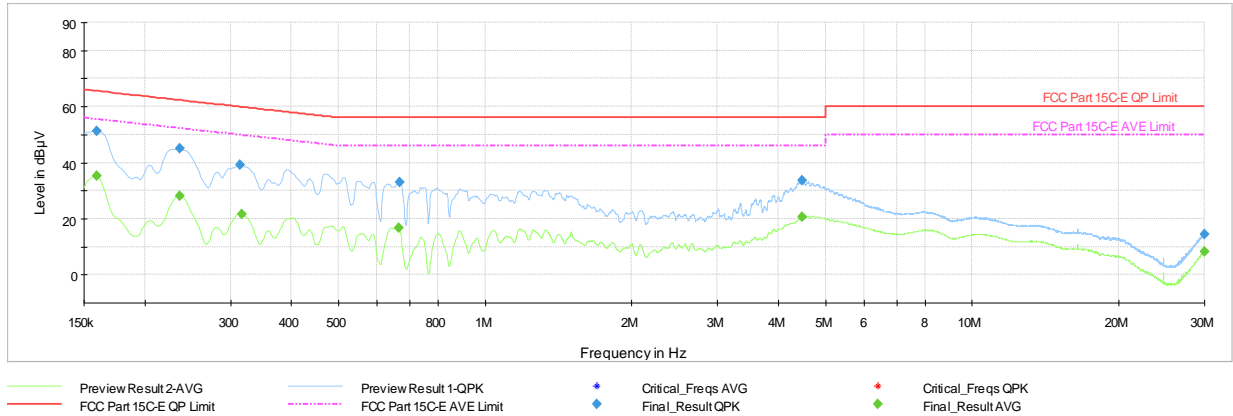


Plot 7-113. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5204MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	—	41.13	55.52	-14.39	L1	GND
0.161	FINAL	57.1	—	65.40	-8.35	L1	GND
0.233	FINAL	—	32.93	52.33	-19.40	L1	GND
0.238	FINAL	50.1	—	62.17	-12.05	L1	GND
0.312	FINAL	—	26.07	49.92	-23.85	L1	GND
0.314	FINAL	44.0	—	59.86	-15.84	L1	GND
0.886	FINAL	—	15.42	46.00	-30.58	L1	GND
0.888	FINAL	31.5	—	56.00	-24.47	L1	GND
4.490	FINAL	31.1	—	56.00	-24.91	L1	GND
4.493	FINAL	—	16.56	46.00	-29.44	L1	GND
16.467	FINAL	—	11.52	50.00	-38.48	L1	GND
16.467	FINAL	15.8	—	60.00	-44.25	L1	GND

Table 7-44. AC Line Conducted Data TxBF (BDR GFSK ePA – 5204MHz) (L1) with AC/DC Adapter

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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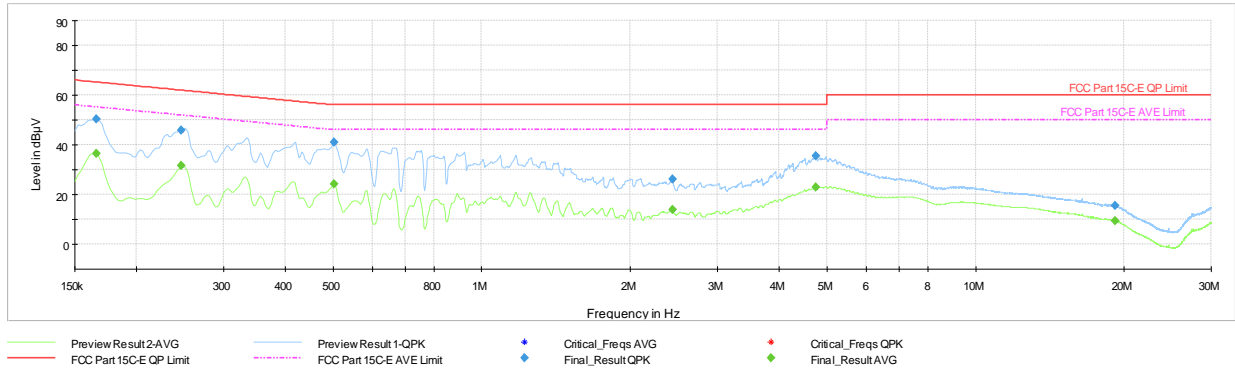


Plot 7-114. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5204MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	—	35.33	55.52	-20.19	N	GND
0.159	FINAL	51.4	—	65.52	-14.15	N	GND
0.236	FINAL	—	28.27	52.25	-23.99	N	GND
0.236	FINAL	45.0	—	62.25	-17.22	N	GND
0.314	FINAL	39.3	—	59.86	-20.58	N	GND
0.317	FINAL	—	21.48	49.80	-28.32	N	GND
0.665	FINAL	—	16.60	46.00	-29.40	N	GND
0.668	FINAL	33.1	—	56.00	-22.90	N	GND
4.475	FINAL	33.5	—	56.00	-22.46	N	GND
4.479	FINAL	—	20.68	46.00	-25.32	N	GND
29.956	FINAL	—	8.18	50.00	-41.82	N	GND
29.958	FINAL	14.3	—	60.00	-45.68	N	GND

Table 7-45. AC Line Conducted TxBF (BDR GFSK ePA – 5204MHz) (N) with AC/DC Adapter

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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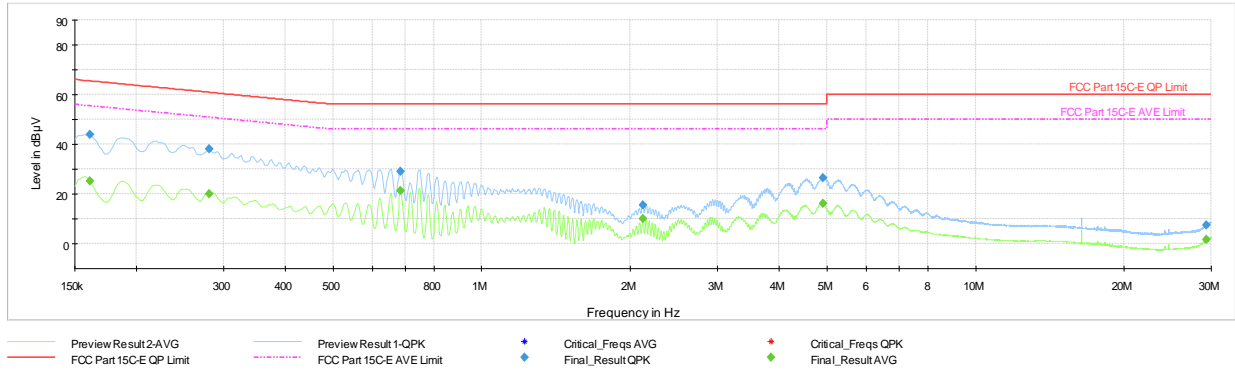


Plot 7-115. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5789MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	36.50	55.17	-18.67	L1	GND
0.166	FINAL	50.2	—	65.17	-14.99	L1	GND
0.247	FINAL	—	31.51	51.87	-20.35	L1	GND
0.247	FINAL	45.7	—	61.87	-16.14	L1	GND
0.503	FINAL	—	24.12	46.00	-21.88	L1	GND
0.503	FINAL	40.9	—	56.00	-15.15	L1	GND
2.436	FINAL	26.2	—	56.00	-29.77	L1	GND
2.436	FINAL	—	13.85	46.00	-32.15	L1	GND
4.745	FINAL	35.4	—	56.00	-20.62	L1	GND
4.745	FINAL	—	22.91	46.00	-23.09	L1	GND
19.151	FINAL	—	9.51	50.00	-40.49	L1	GND
19.151	FINAL	15.6	—	60.00	-44.39	L1	GND

Table 7-46. AC Line Conducted Data TxBF (BDR GFSK ePA – 5789MHz) (L1) with AC/DC Adapter

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-116. AC Line Conducted Plot (BDR GFSK ePA – 5789MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	25.11	55.40	-30.29	N	GND
0.161	FINAL	43.9	—	65.40	-21.49	N	GND
0.281	FINAL	—	20.12	50.80	-30.68	N	GND
0.281	FINAL	38.0	—	60.80	-22.76	N	GND
0.686	FINAL	—	21.22	46.00	-24.78	N	GND
0.686	FINAL	29.0	—	56.00	-26.96	N	GND
2.119	FINAL	15.4	—	56.00	-40.59	N	GND
2.119	FINAL	—	9.99	46.00	-36.01	N	GND
4.904	FINAL	26.4	—	56.00	-29.59	N	GND
4.904	FINAL	—	16.00	46.00	-30.00	N	GND
29.306	FINAL	—	1.51	50.00	-48.49	N	GND
29.306	FINAL	7.6	—	60.00	-52.44	N	GND

Table 7-47. AC Line Conducted (BDR GFSK ePA – 5789MHz) (N) with AC/DC Adapter

FCC ID: BCGA2902 IC: 579C-A2902	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2902 , IC: 579C-A2902** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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