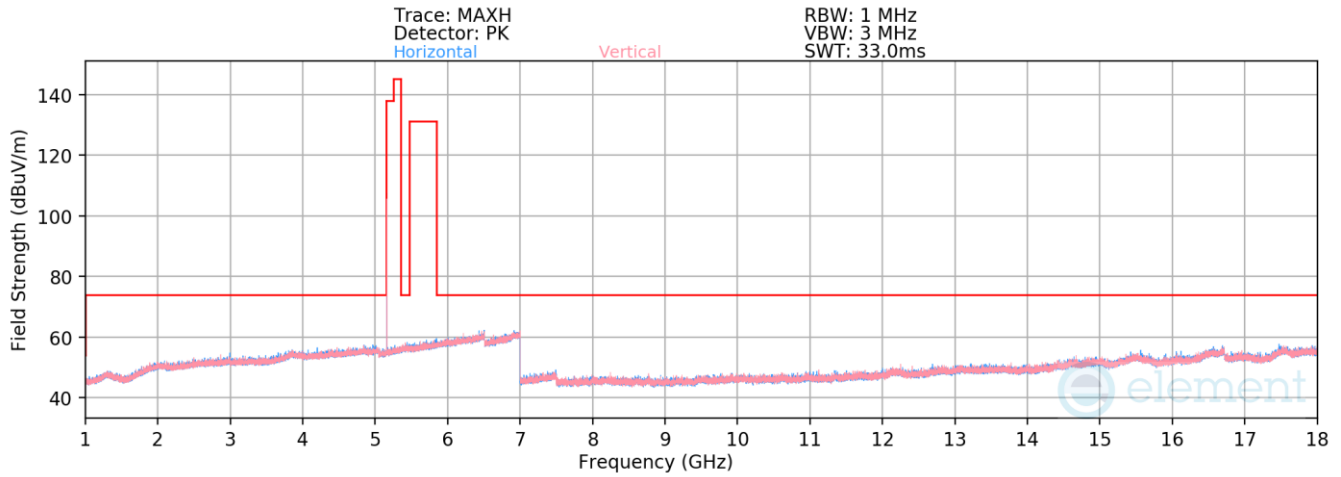


7.6.3 Antenna WF7 Radiated Spurious Emission (1-18GHz)



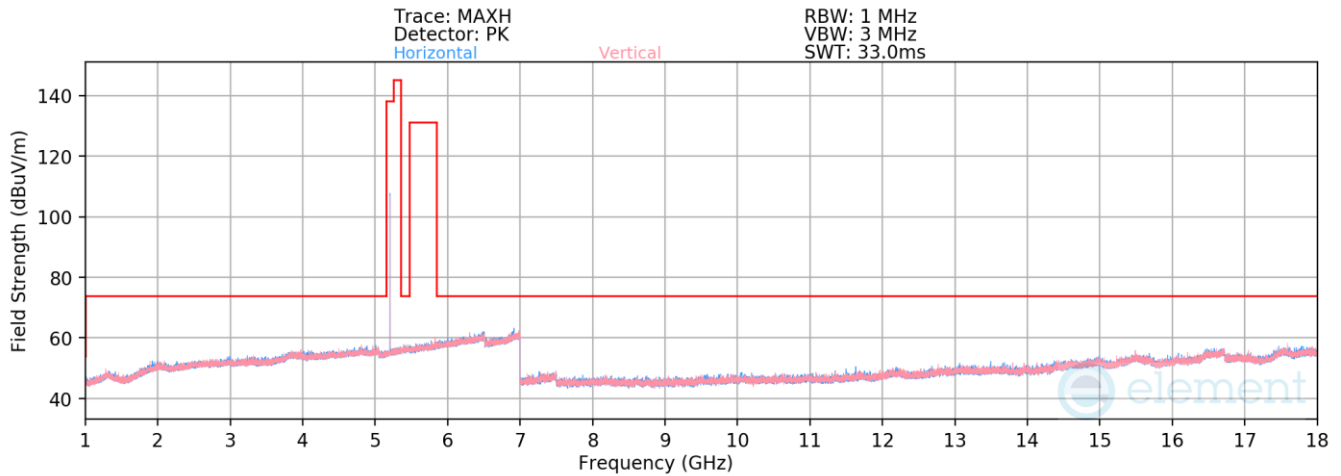
Plot 7-109. Radiated Spurious Emissions 1-18GHz Antenna WF7 (BDR GFSK ePA – 5162MHz)

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	-	-	-67.20	8.38	48.18	68.20	-20.02
* 15486.00	Average	V	-	-	-79.36	13.94	41.58	53.98	-12.40
* 15486.00	Peak	V	-	-	-67.17	13.94	53.77	73.98	-20.21

Table 7-41. Radiated Spurious Emissions Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 100 of 131



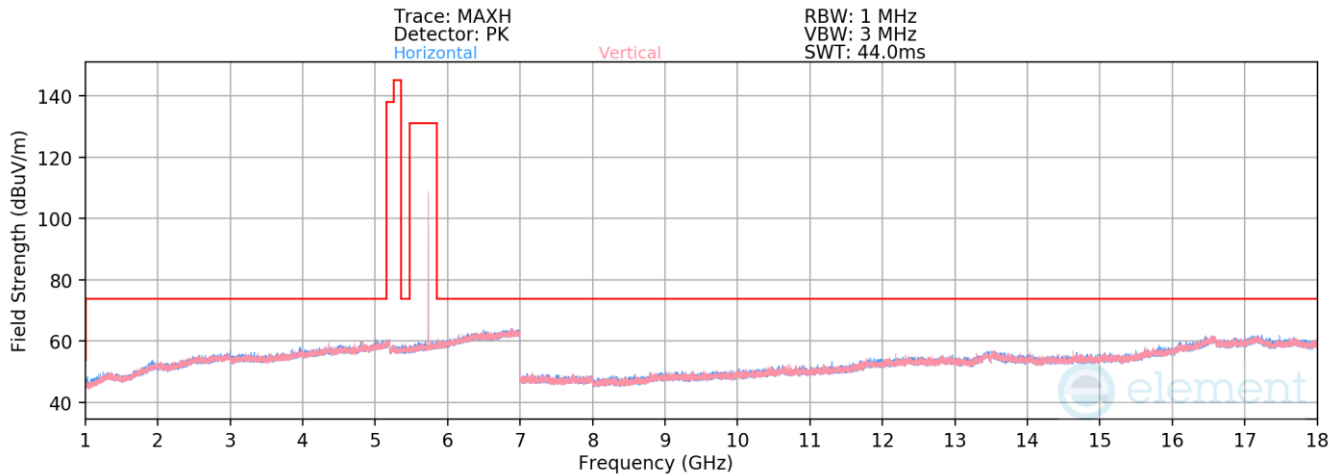
Plot 7-110. Radiated Spurious Emissions 1-18GHz Antenna WF7 (BDR GFSK ePA – 5204MHz)

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10408.00	Peak	V	-	-	-67.15	8.41	48.26	68.20	-19.94
* 15612.00	Average	V	-	-	-79.49	13.98	41.49	53.98	-12.49
* 15612.00	Peak	V	-	-	-67.61	13.98	53.37	73.98	-20.61

Table 7-42. Radiated Spurious Emissions Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 101 of 131



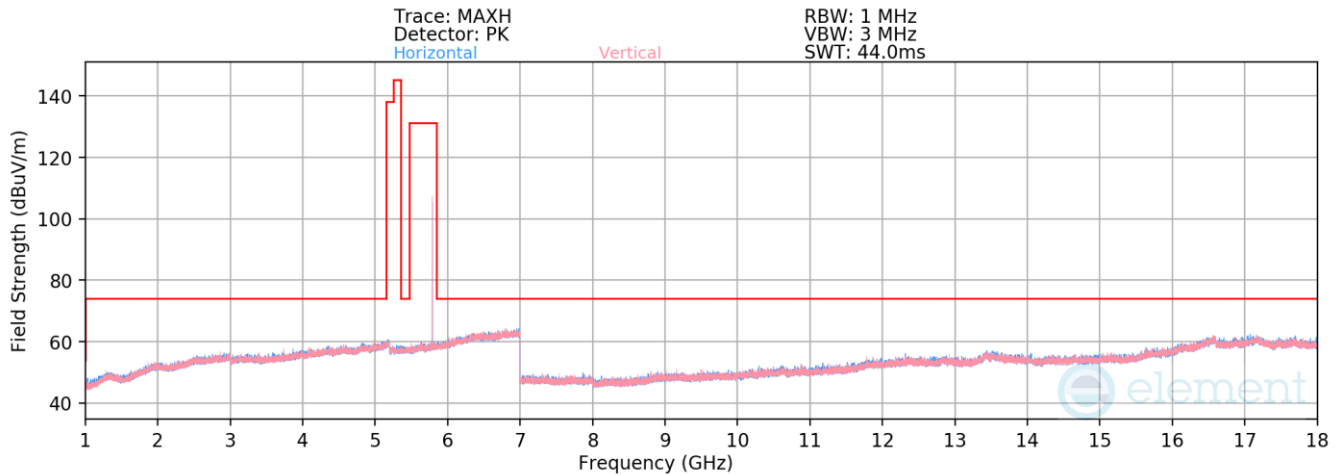
Plot 7-111. Radiated Spurious Emissions 1-18GHz Antenna WF7 (BDR GFSK ePA – 5245MHz)

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	-	-	-67.23	8.43	48.20	68.20	-20.00
* 15735.00	Average	V	-	-	-79.18	13.07	40.89	53.98	-13.09
* 15735.00	Peak	V	-	-	-67.31	13.07	52.76	73.98	-21.22

Table 7-43. Radiated Spurious Emissions Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 102 of 131



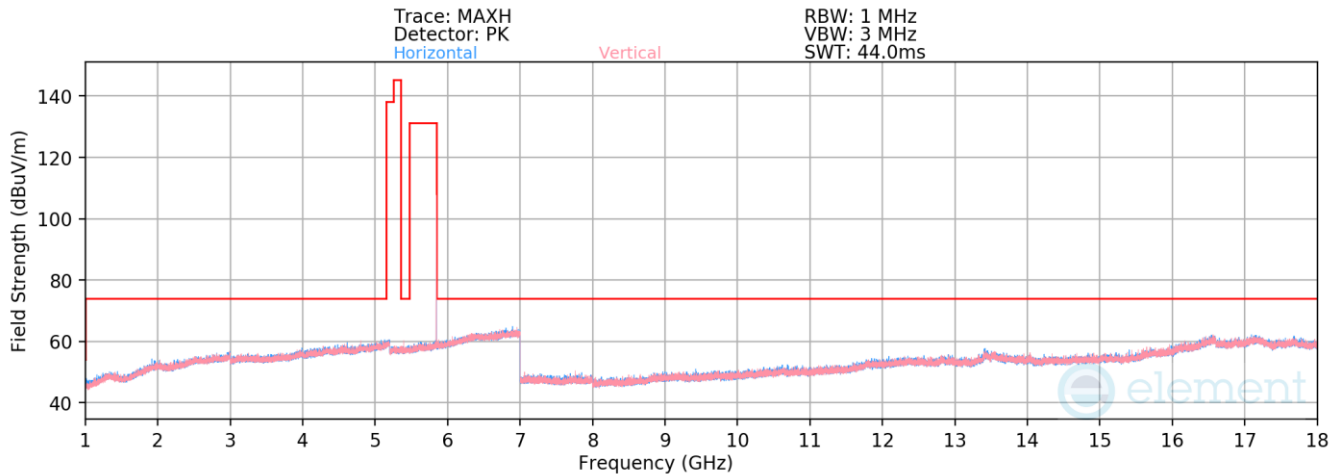
Plot 7-112. Radiated Spurious Emissions 1-18GHz Antenna WF7 (BDR GFSK ePA – 5733MHz)

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	-	-	-79.88	9.31	36.43	53.98	-17.55
* 11466.00	Peak	V	-	-	-67.60	9.31	48.71	73.98	-25.27
17199.00	Peak	V	-	-	-66.72	16.04	56.32	68.20	-11.88

Table 7-44. Radiated Spurious Emissions Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 103 of 131



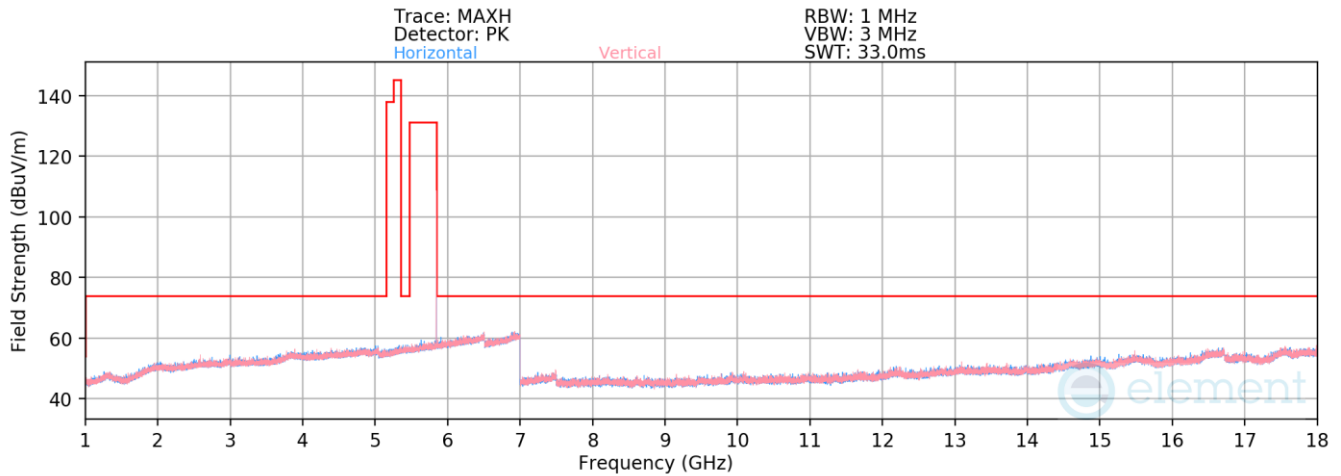
Plot 7-113. Radiated Spurious Emissions 1-18GHz Antenna WF7 (BDR GFSK ePA – 5789MHz)

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11578.00	Average	V	-	-	-79.03	9.27	37.24	53.98	-16.74
* 11578.00	Peak	V	-	-	-67.68	9.27	48.59	73.98	-25.39
17367.00	Peak	V	-	-	-66.43	17.19	57.76	68.20	-10.44

Table 7-45. Radiated Spurious Emissions Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 104 of 131



Plot 7-114. Radiated Spurious Emissions 1-18GHz Antenna WF7 (BDR GFSK ePA – 5844MHz)

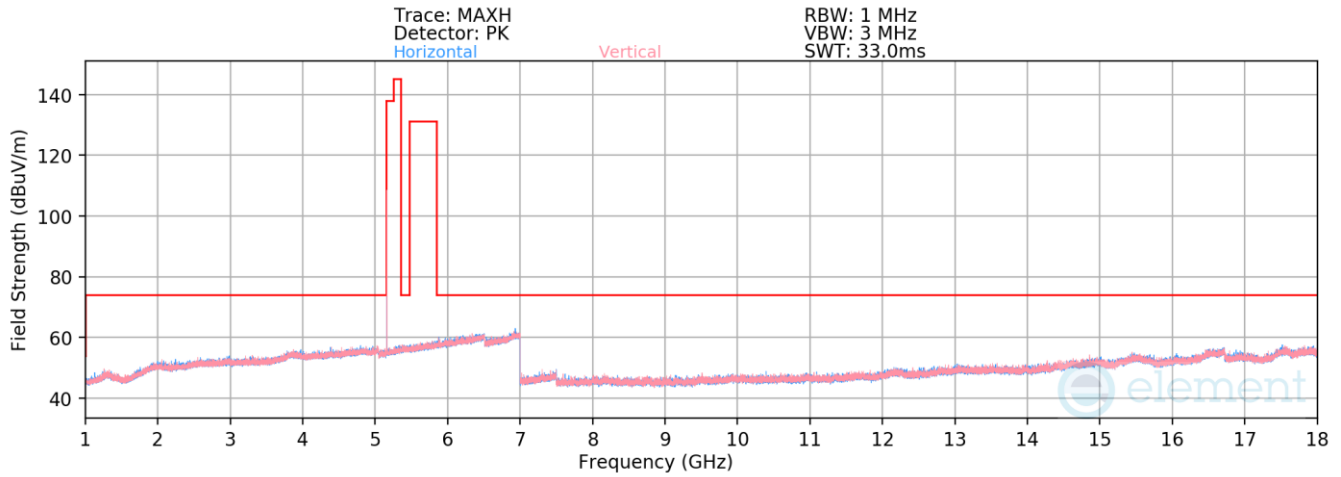
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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	-	-	-78.78	9.57	37.79	53.98	-16.19
* 11688.00	Peak	V	-	-	-68.09	9.57	48.48	73.98	-25.50
17532.00	Peak	V	-	-	-67.28	18.70	58.42	68.20	-9.78

Table 7-46. Radiated Spurious Emissions Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 105 of 131

7.6.4 TxBF Radiated Spurious Emission (Above 1GHz)



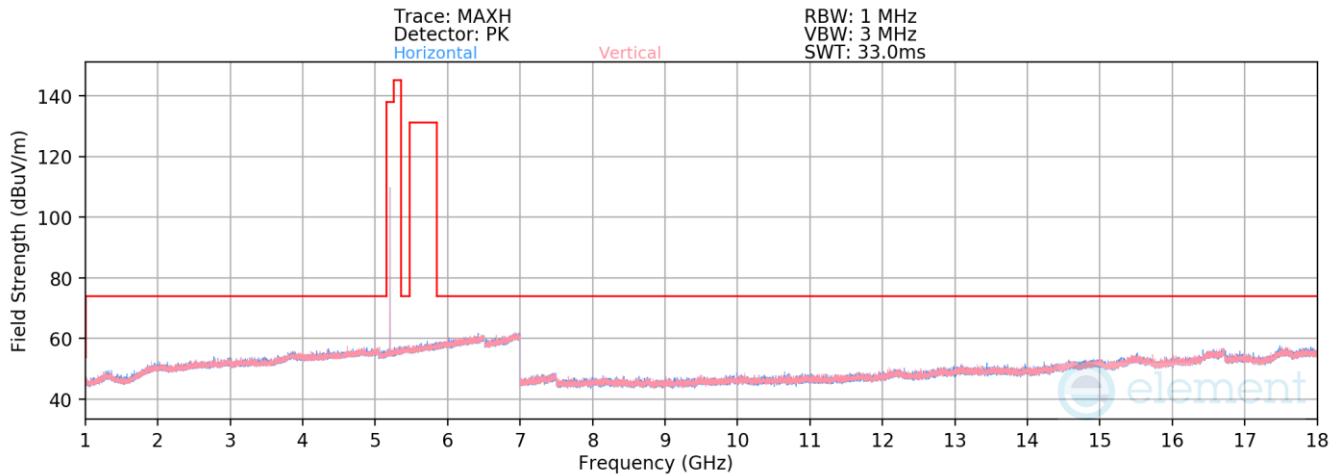
Plot 7-115. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5162MHz)

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	-	-	-66.28	8.38	49.10	68.20	-19.10
* 15486.00	Average	V	-	-	-79.51	13.94	41.43	53.98	-12.55
* 15486.00	Peak	V	-	-	-68.17	13.94	52.77	73.98	-21.21

Table 7-47. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 106 of 131



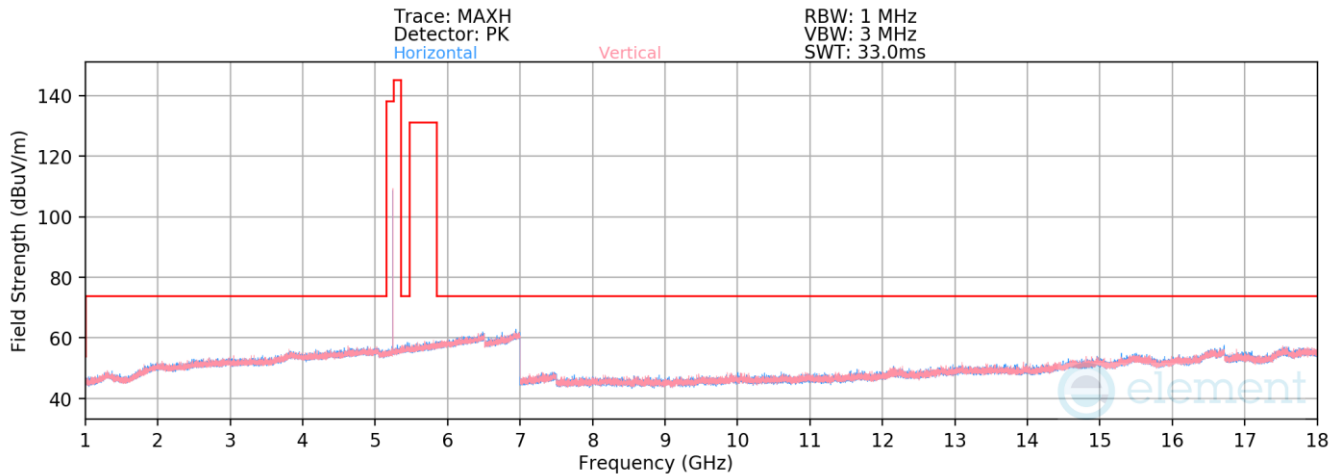
Plot 7-116. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5204MHz)

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

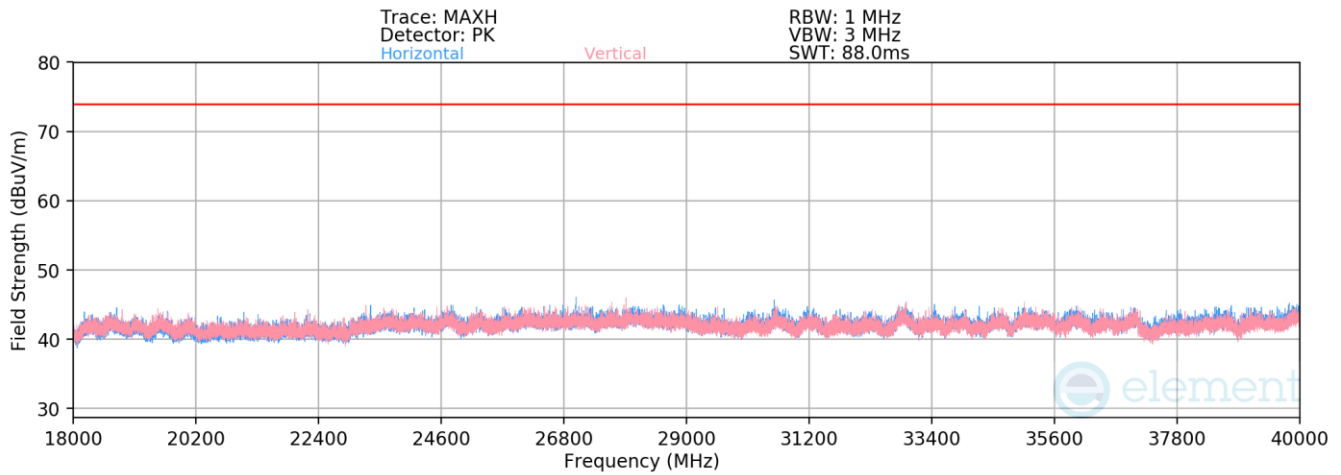
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	V	-	-	-67.22	8.41	48.19	68.20	-20.01
* 15612.00	Average	V	-	-	-79.54	13.98	41.44	53.98	-12.54
* 15612.00	Peak	V	-	-	-67.86	13.98	53.12	73.98	-20.86

Table 7-48. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 107 of 131



Plot 7-117. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5245MHz)



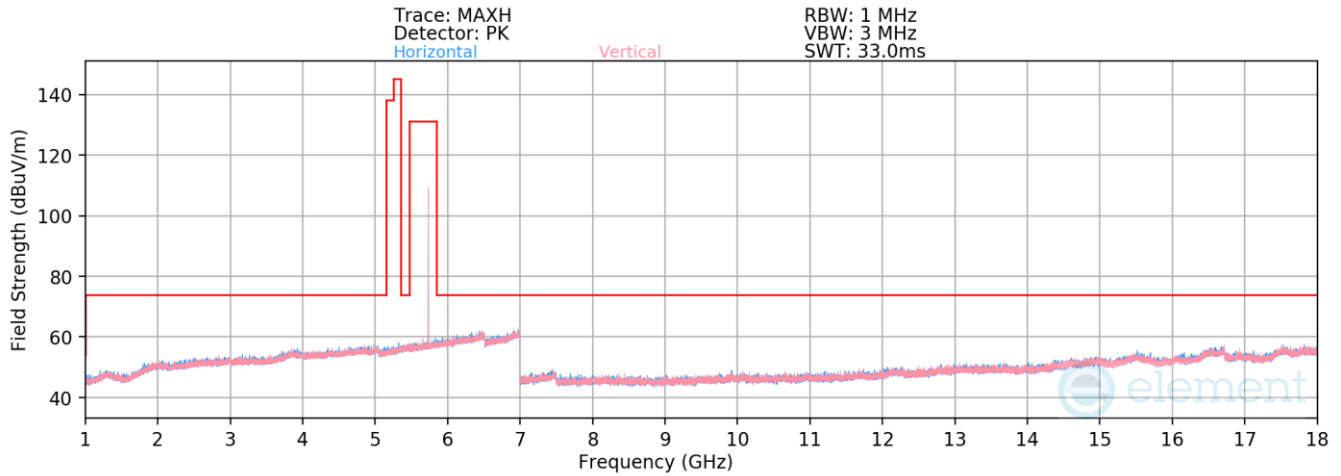
Plot 7-118. Radiated Spurious Emissions Above 18GHz TxBF (BDR GFSK ePA – 5245MHz)

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10490.00	Peak	V	-	-	-67.10	8.43	48.33	68.20	-19.87
* 15735.00	Average	V	-	-	-79.02	13.07	41.05	53.98	-12.93
* 15735.00	Peak	V	-	-	-67.82	13.07	52.25	73.98	-21.73

Table 7-49. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 108 of 131



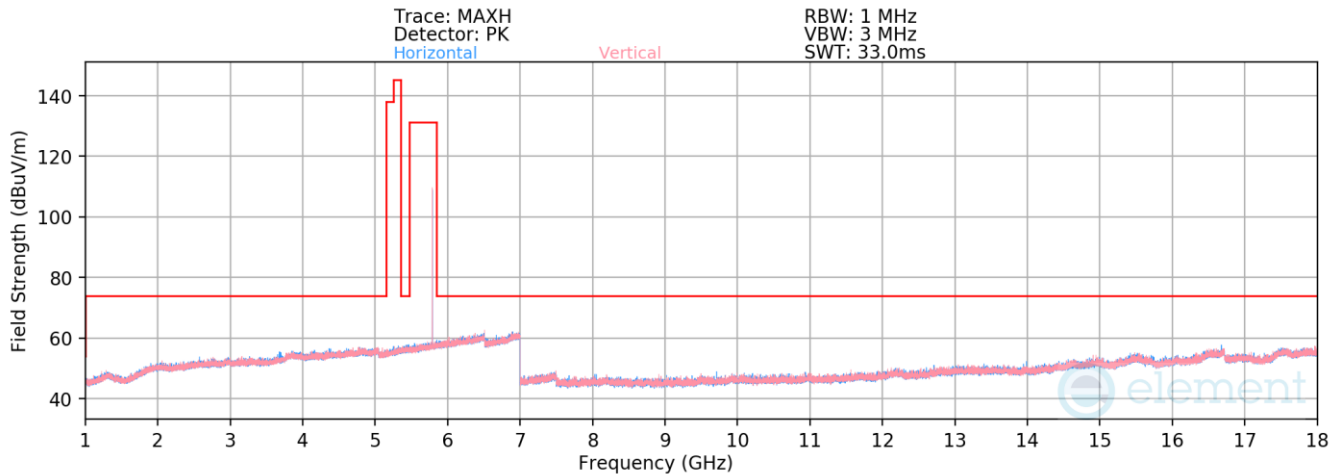
Plot 7-119. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5733MHz)

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11466.00	Average	V	-	-	-79.22	9.34	37.12	53.98	-16.86
* 11466.00	Peak	V	-	-	-67.91	9.34	48.43	73.98	-25.55
17199.00	Peak	V	-	-	-68.18	16.17	54.99	68.20	-13.21

Table 7-50. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 109 of 131



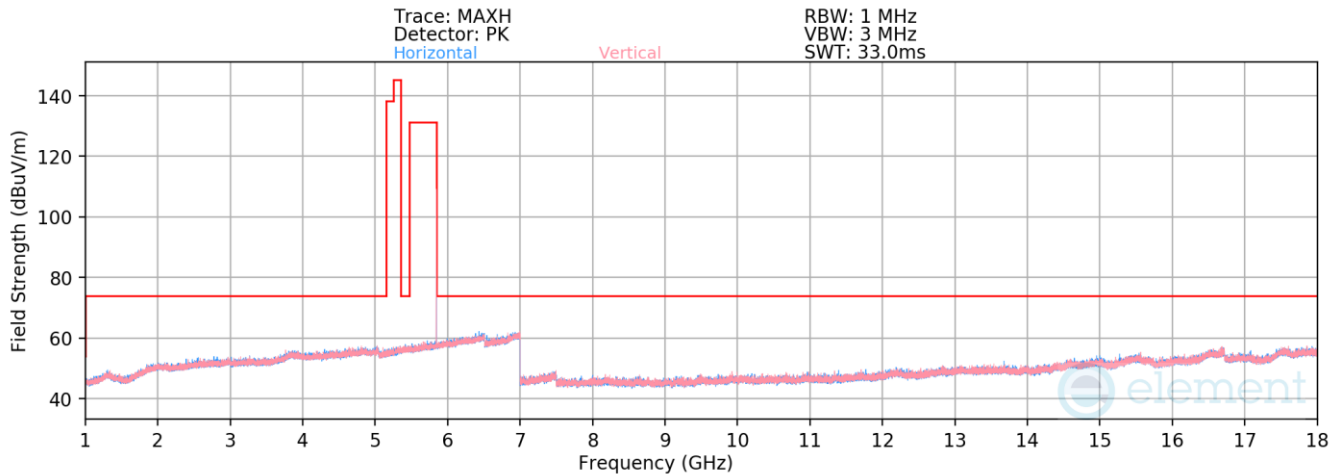
Plot 7-120. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5789MHz)

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

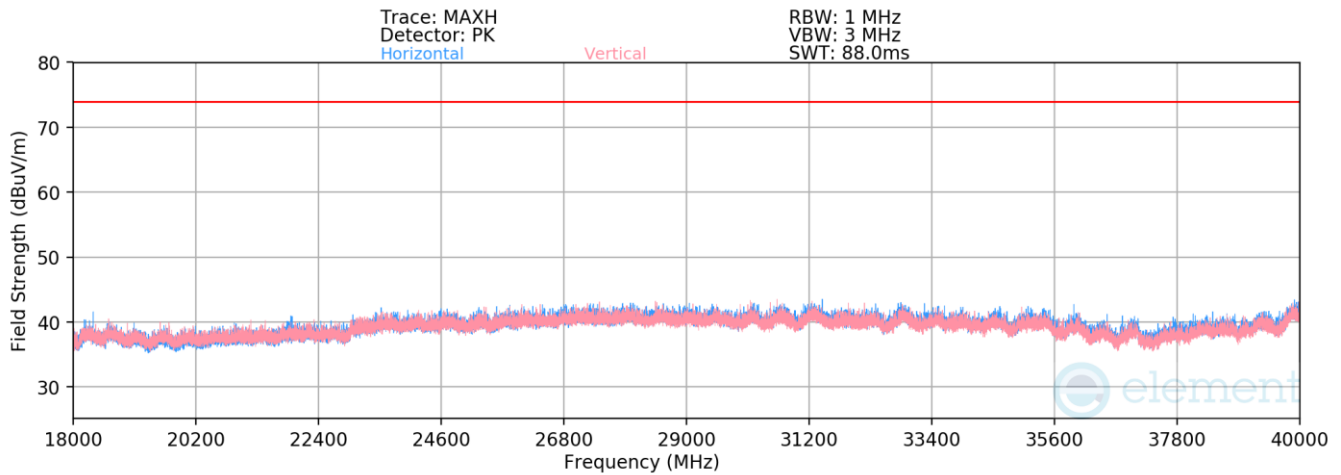
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11578.00	Average	V	-	-	-78.98	9.31	37.33	53.98	-16.65
* 11578.00	Peak	V	-	-	-67.70	9.31	48.61	73.98	-25.37
17367.00	Peak	V	-	-	-68.54	17.30	55.76	68.20	-12.44

Table 7-51. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 110 of 131



Plot 7-121. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5844MHz)



Plot 7-122. Radiated Spurious Emissions Above 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11688.00	Average	V	-	-	-78.99	9.56	37.57	53.98	-16.41
* 11688.00	Peak	V	-	-	-67.36	9.56	49.20	73.98	-24.78
17532.00	Peak	V	-	-	-67.57	18.80	58.23	68.20	-9.97

Table 7-52. Radiated Spurious Emissions Measurements TxBF

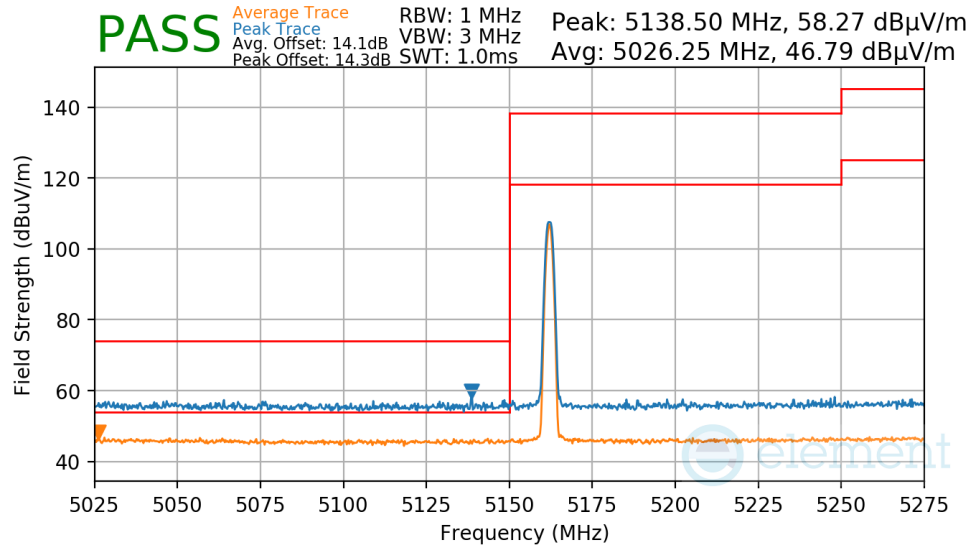
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 111 of 131

7.6.5 Radiated Band Edge Measurements

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

Antenna WF5B

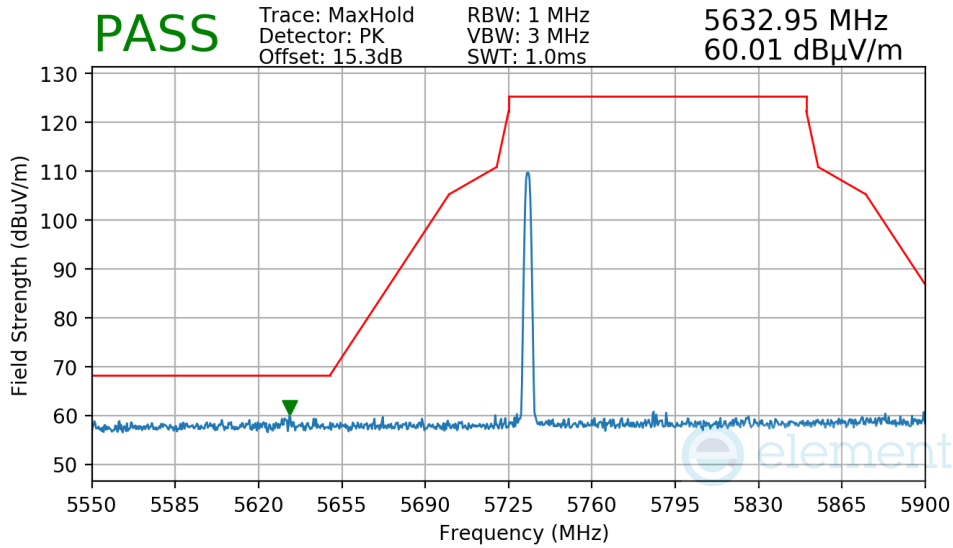
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-123. Radiated Lower Band Edge Measurement Antenna WF5B

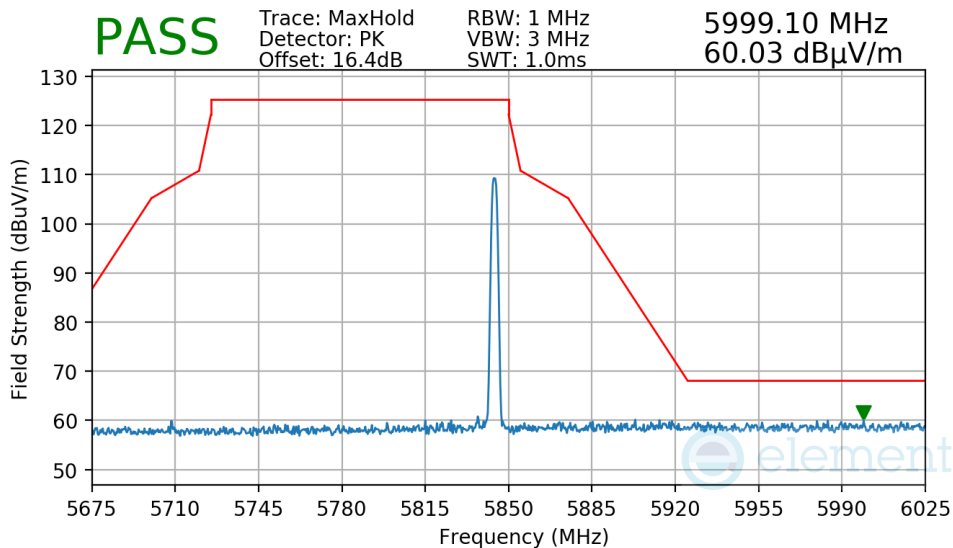
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 112 of 131

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



Plot 7-124. Radiated Lower Band Edge Measurement Antenna WF5B

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



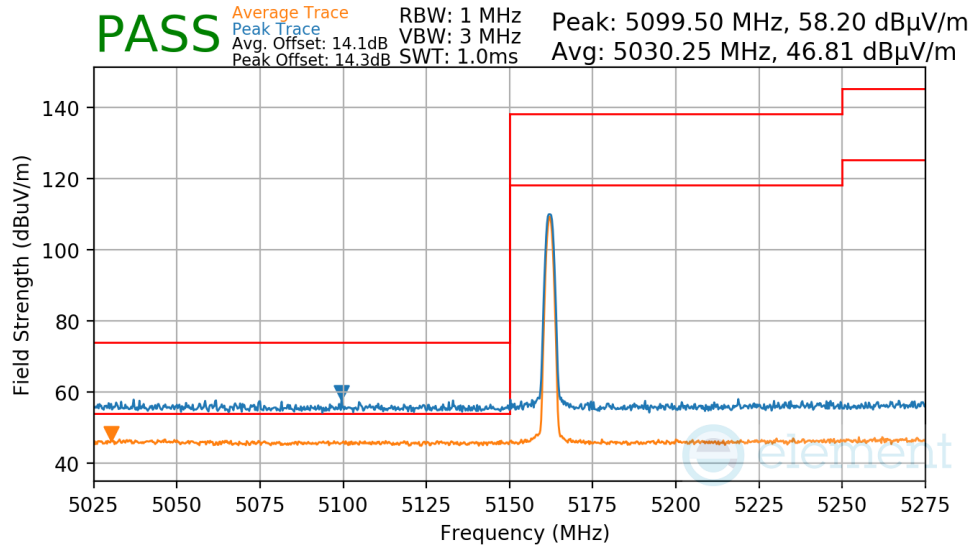
Plot 7-125. Radiated Upper Band Edge Measurement Antenna WF5B

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 113 of 131

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

Antenna WF8

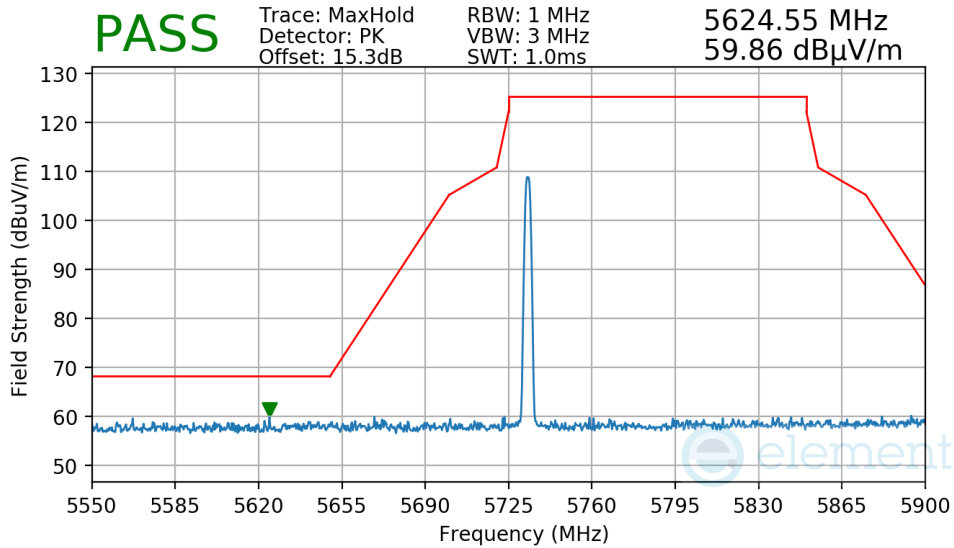
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-126. Radiated Lower Band Edge Measurement Antenna WF8

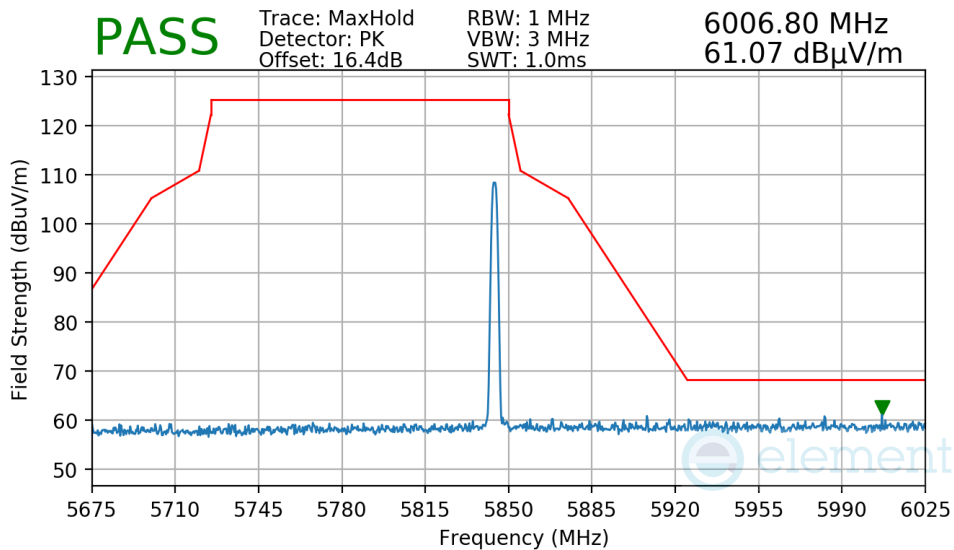
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 114 of 131

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



Plot 7-127. Radiated Lower Band Edge Measurement Antenna WF8

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



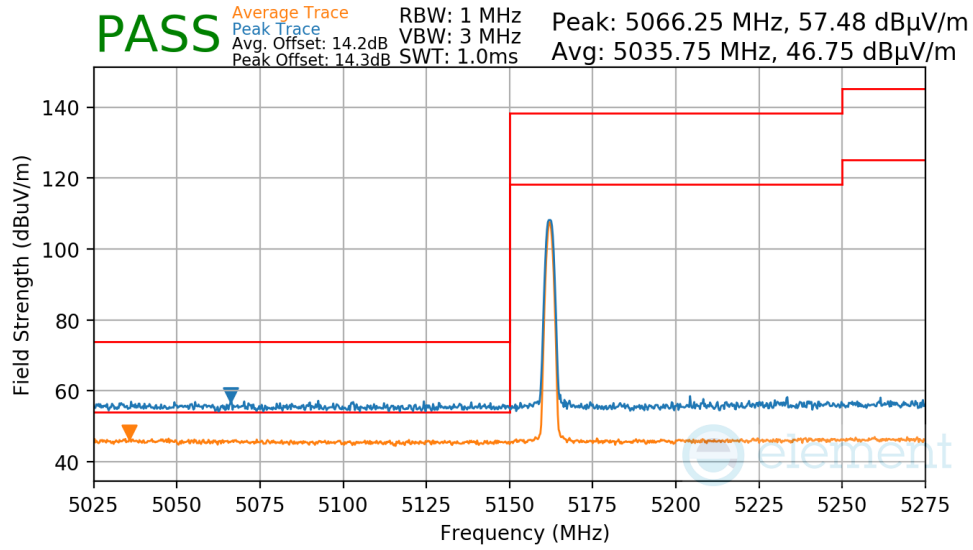
Plot 7-128. Radiated Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 115 of 131

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

Antenna WF7

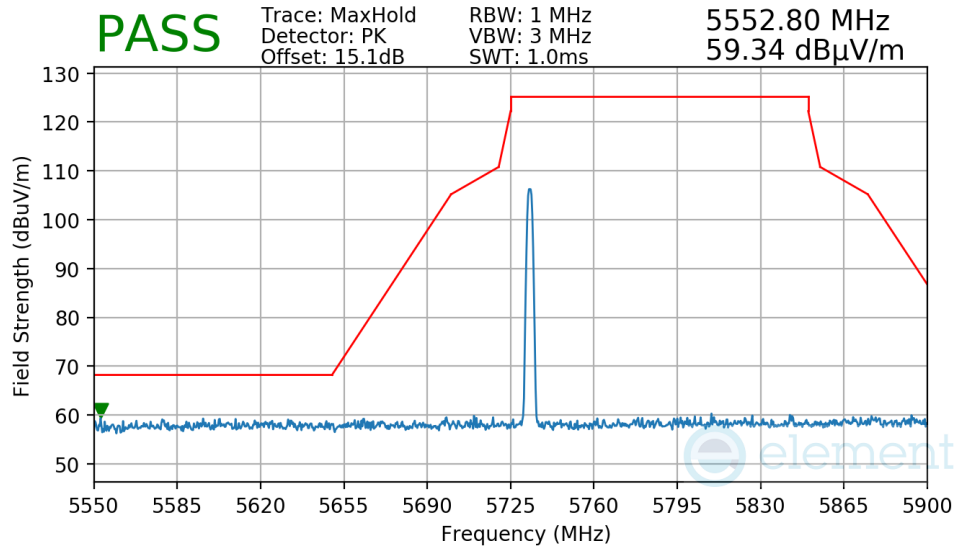
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-129. Radiated Lower Band Edge Measurement Antenna WF7

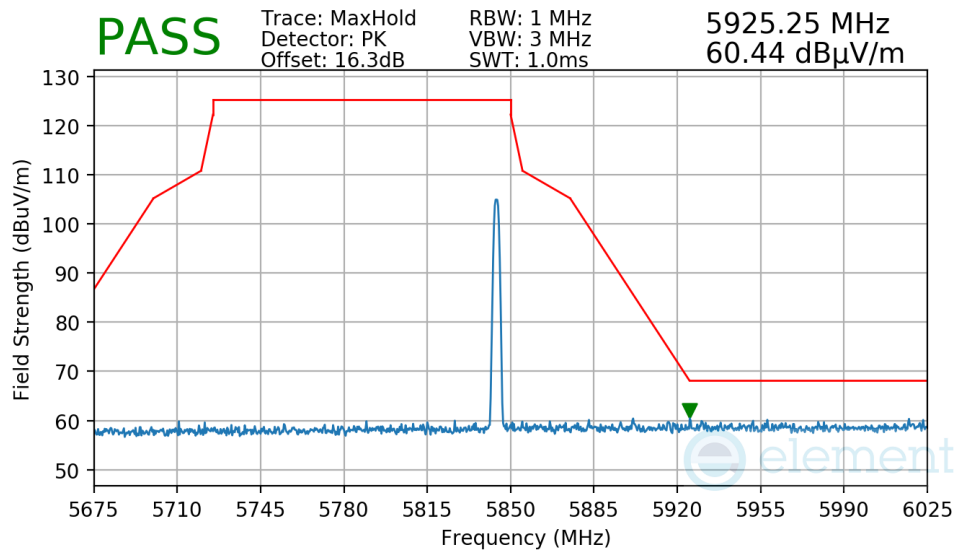
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 116 of 131

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



Plot 7-130. Radiated Lower Band Edge Measurement Antenna WF7

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



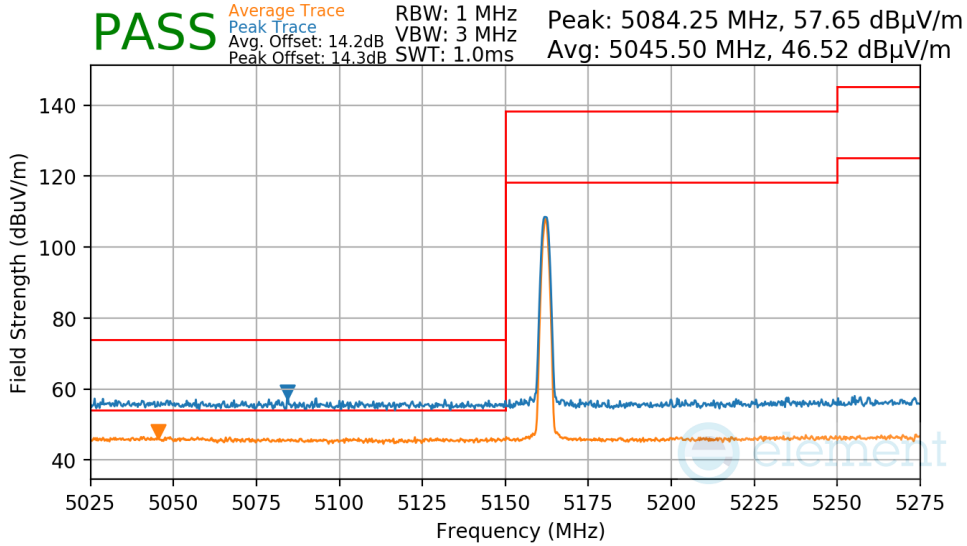
Plot 7-131. Radiated Upper Band Edge Measurement Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 117 of 131

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

TxBF

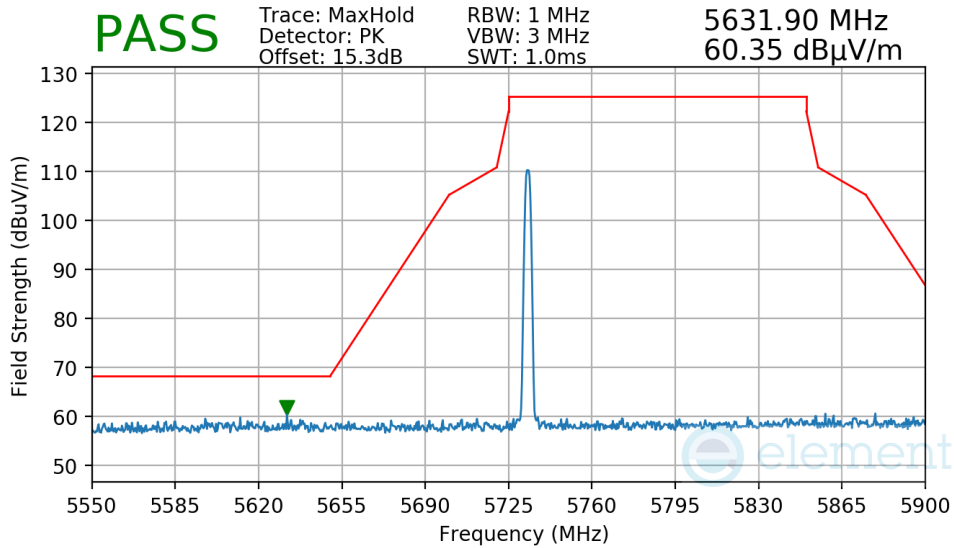
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-132. Radiated Lower Band Edge Measurement TxBF

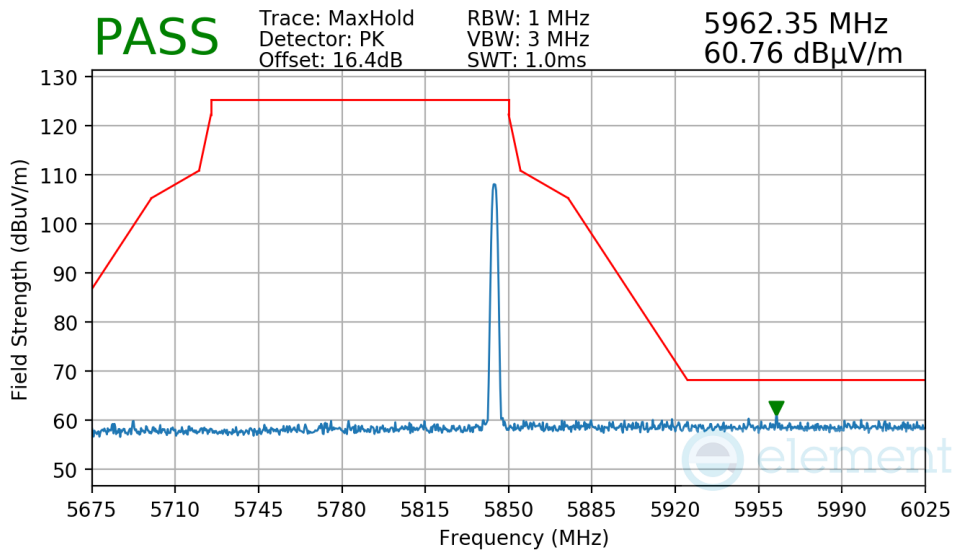
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-08.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 118 of 131

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



Plot 7-133. Radiated Lower Band Edge Measurement TxBF

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



Plot 7-134. Radiated Upper Band Edge Measurement TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 7-53 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 7-53. 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

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Test Setup

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

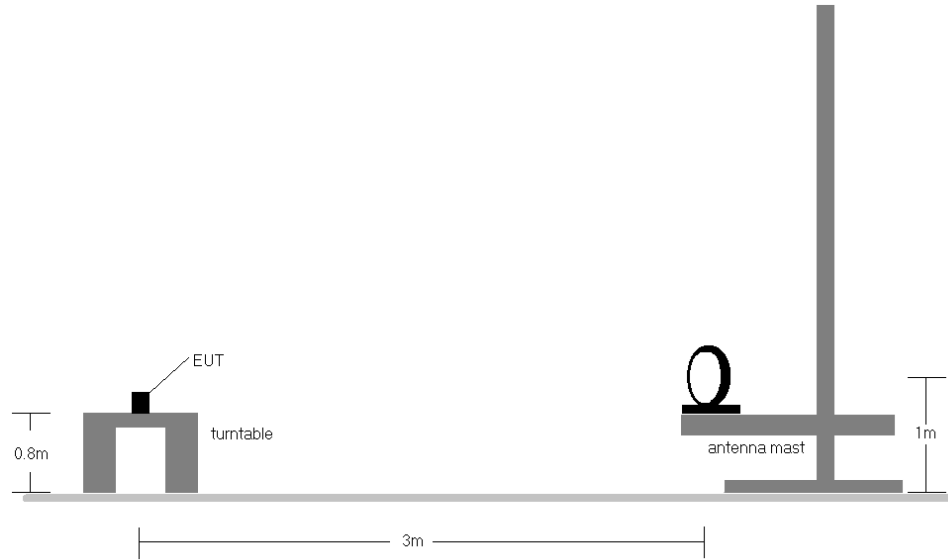


Figure 7-6. Radiated Test Setup < 30MHz

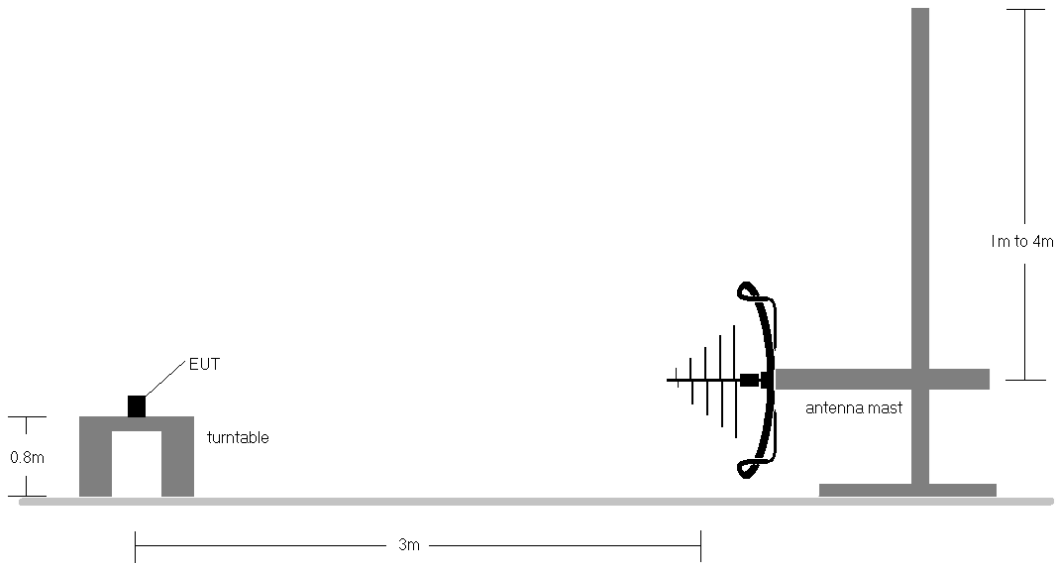


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-53.
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

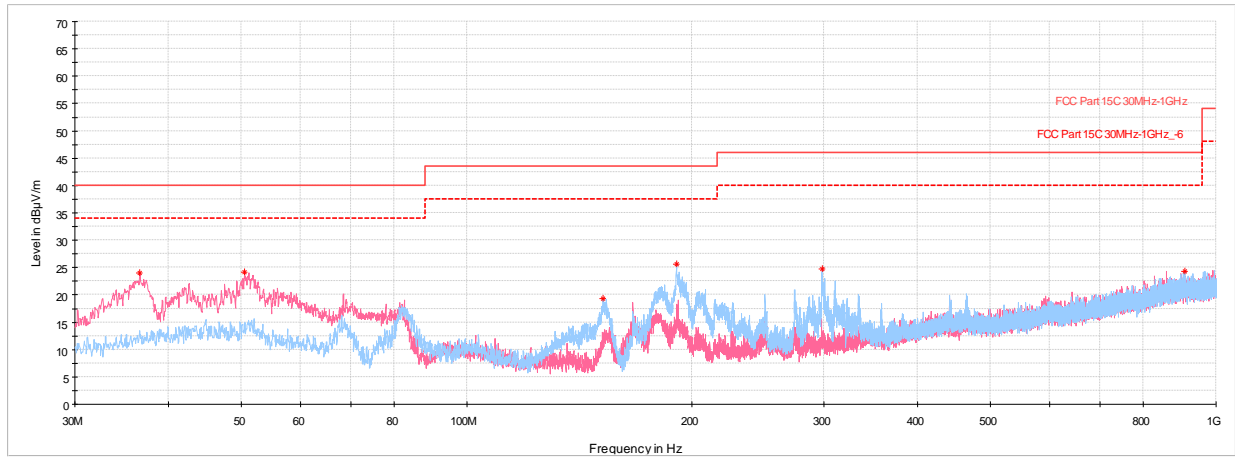
Determining Spurious Emissions Levels

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

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Radiated Spurious Emissions (Below 1GHz)

§15.209; RSS-Gen [8.9]



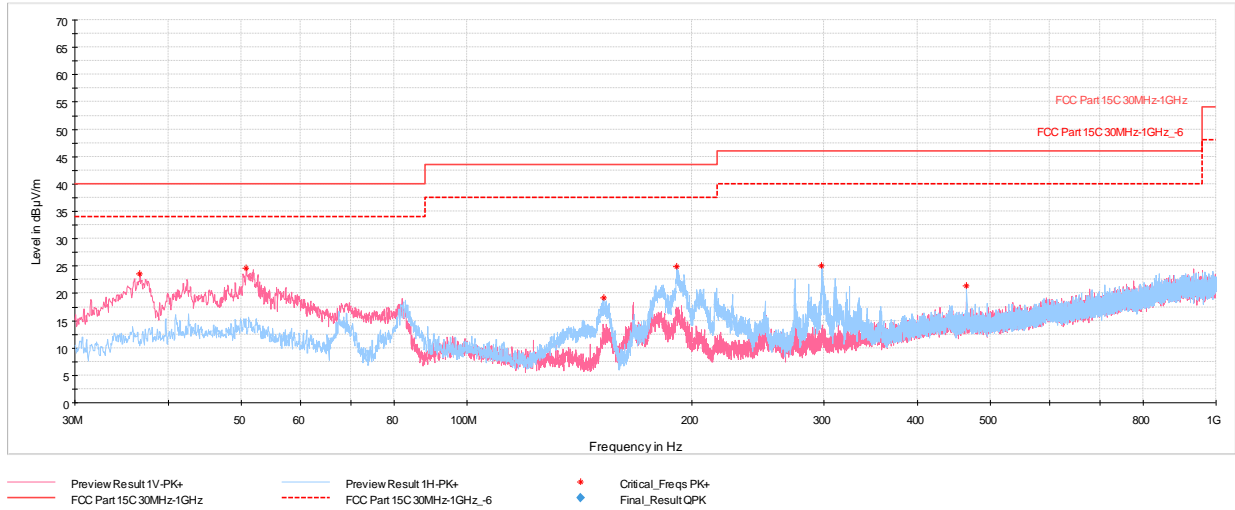
— Preview Result 1V-PK+
- - - FCC Part 15C 30MHz-1GHz
 — Preview Result 1H-PK+
- - - FCC Part 15C 30MHz-1GHz_6
 ★ Critical_Freqs PK+
★ Final_Result QPK

Plot 7-135. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5245MHz), 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	342	-67.73	-15.32	23.95	40.00	-16.05
50.52	Max-Peak	V	100	0	-69.75	-13.10	24.15	40.00	-15.85
152.12	Max-Peak	H	200	193	-67.58	-20.11	19.31	43.52	-24.21
190.54	Max-Peak	H	200	216	-63.89	-17.43	25.68	43.52	-17.84
297.96	Max-Peak	H	100	97	-67.74	-14.56	24.70	46.02	-21.32
908.14	Max-Peak	H	200	157	-80.53	-2.17	24.30	46.02	-21.72

Table 7-54. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5245MHz), with AC/DC Adapter

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Plot 7-136. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5844MHz), 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	261	38.92	-15.32	23.60	40.00	-16.40
50.81	Max-Peak	V	100	0	37.79	-13.12	24.67	40.00	-15.33
152.46	Max-Peak	H	200	219	39.31	-20.09	19.22	43.52	-24.30
190.63	Max-Peak	H	200	48	42.40	-17.43	24.97	43.52	-18.55
297.72	Max-Peak	H	100	271	39.58	-14.55	25.03	46.02	-20.99
464.80	Max-Peak	H	100	315	32.11	-10.76	21.35	46.02	-24.67

Table 7-55. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5844MHz), with AC/DC Adapter

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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 7-56. 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

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Test Setup

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

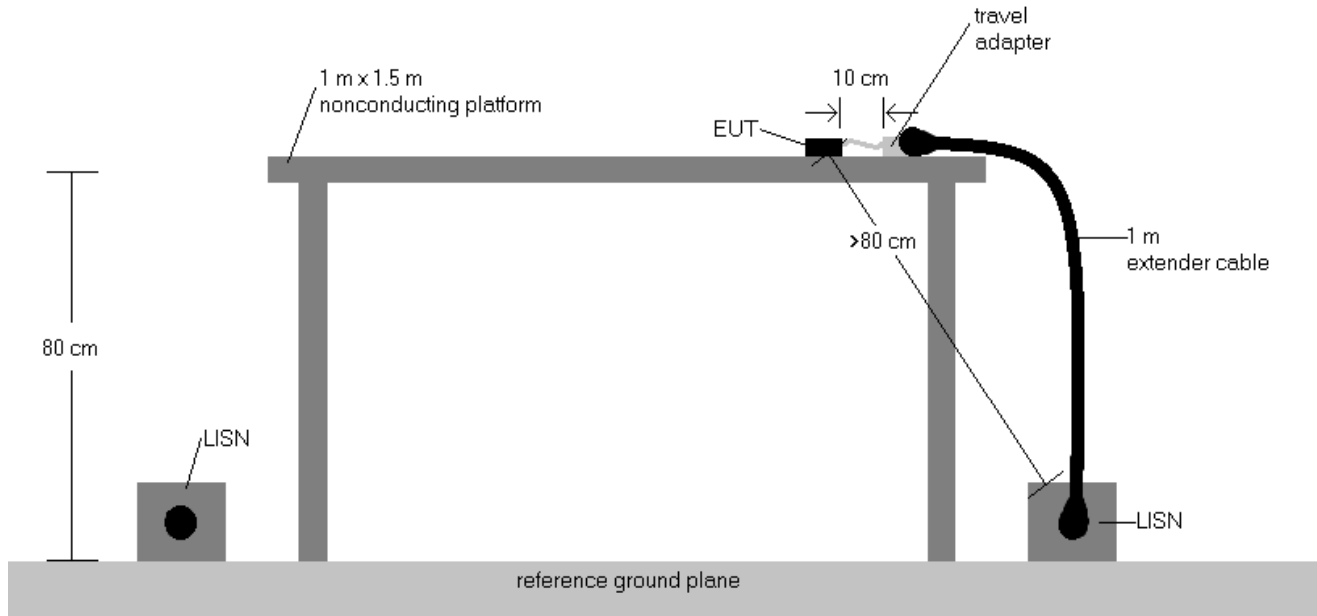


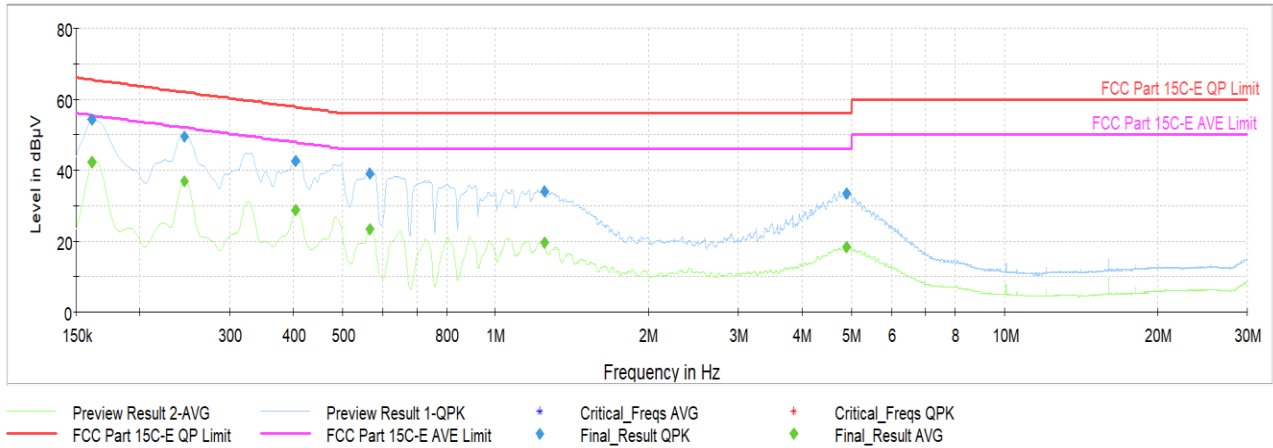
Figure 7-8. Test Instrument & Measurement Setup

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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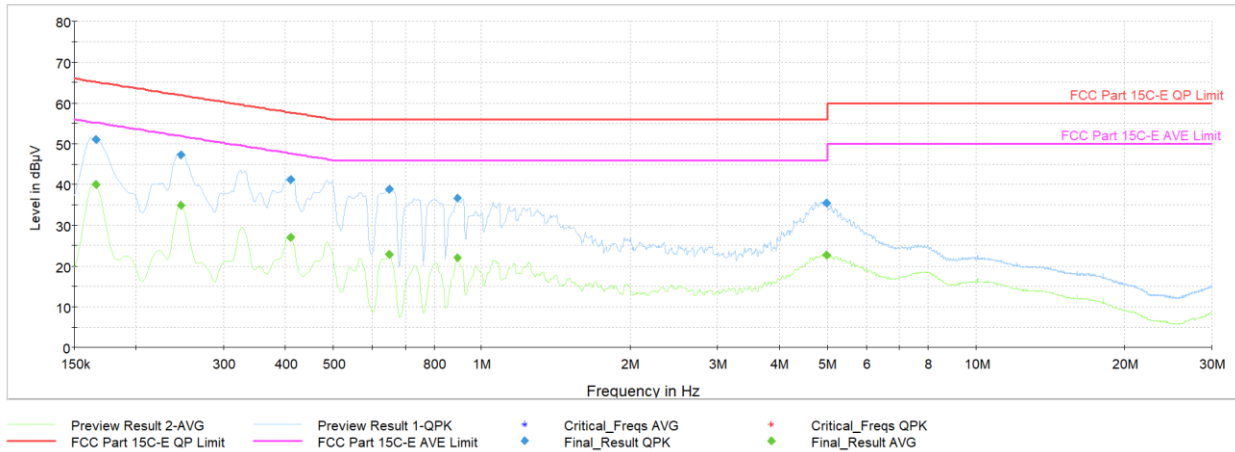


Plot 7-137. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5245MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	42.05	55.40	-13.35	L1	GND
0.161	FINAL	54.3	—	65.40	-11.15	L1	GND
0.245	FINAL	—	36.97	51.94	-14.97	L1	GND
0.245	FINAL	49.5	—	61.94	-12.40	L1	GND
0.404	FINAL	—	28.51	47.77	-19.26	L1	GND
0.404	FINAL	42.7	—	57.77	-15.10	L1	GND
0.566	FINAL	39.1	—	56.00	-16.91	L1	GND
0.566	FINAL	—	23.44	46.00	-22.56	L1	GND
1.248	FINAL	34.2	—	56.00	-21.85	L1	GND
1.248	FINAL	—	19.43	46.00	-26.57	L1	GND
4.884	FINAL	—	18.16	46.00	-27.84	L1	GND
4.884	FINAL	33.4	—	56.00	-22.56	L1	GND

Table 7-57. AC Line Conducted Data TxBF (BDR GFSK ePA– 5245MHz) (L1) with AC/DC Adapter

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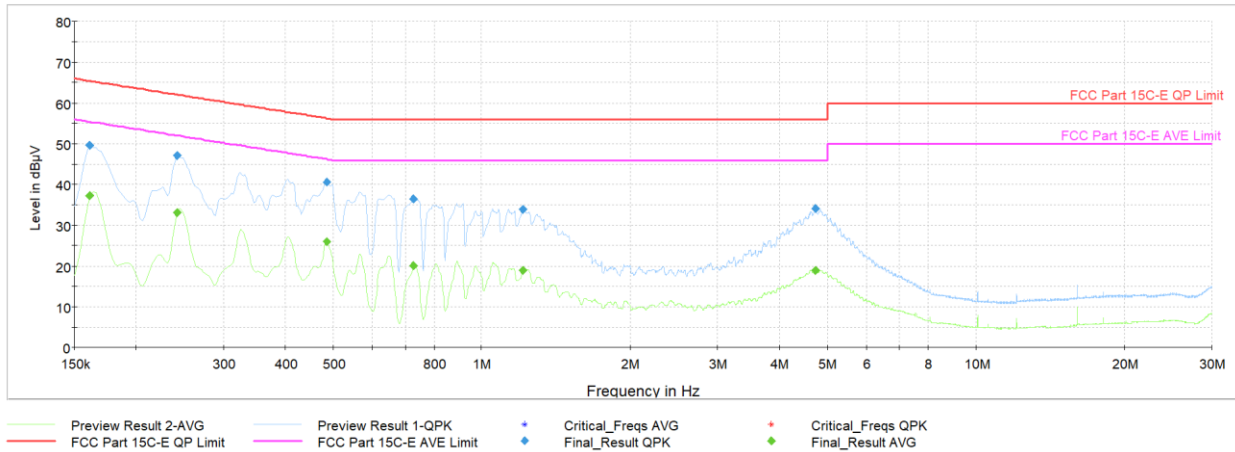


Plot 7-138. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5245MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	39.94	55.17	-15.23	N	GND
0.166	FINAL	51.1	—	65.17	-14.06	N	GND
0.247	FINAL	—	34.86	51.87	-17.01	N	GND
0.247	FINAL	47.3	—	61.87	-14.59	N	GND
0.411	FINAL	—	27.01	47.63	-20.62	N	GND
0.411	FINAL	41.1	—	57.63	-16.54	N	GND
0.650	FINAL	38.9	—	56.00	-17.08	N	GND
0.650	FINAL	—	22.95	46.00	-23.05	N	GND
0.893	FINAL	36.7	—	56.00	-19.31	N	GND
0.893	FINAL	—	22.00	46.00	-24.00	N	GND
4.976	FINAL	—	22.62	46.00	-23.38	N	GND
4.976	FINAL	35.4	—	56.00	-20.58	N	GND

Table 7-58. AC Line Conducted Data TxBF (BDR GFSK ePA – 5245MHz) (N) with AC/DC Adapter

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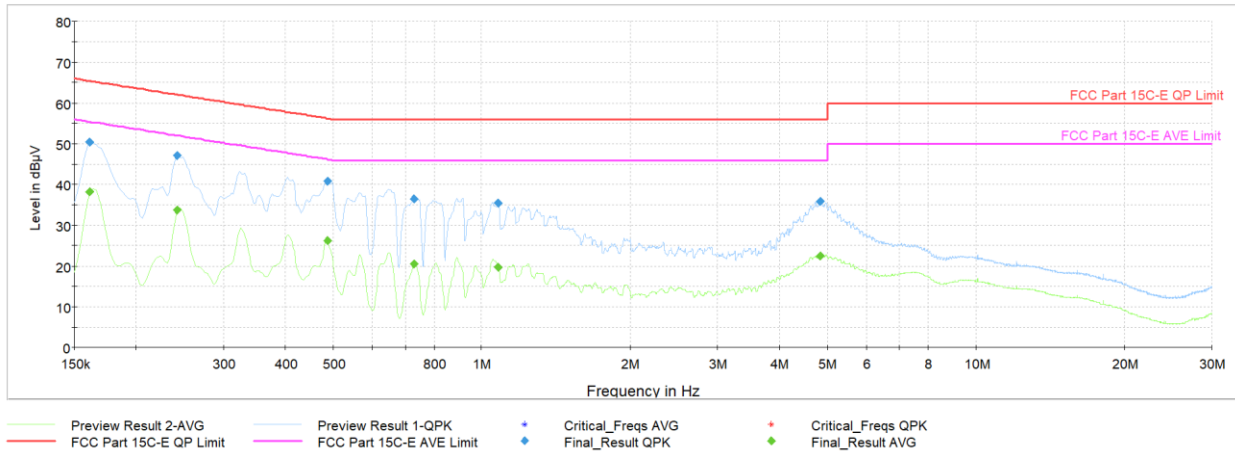


Plot 7-139. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5844MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	37.22	55.40	-18.18	L1	GND
0.161	FINAL	49.6	—	65.40	-15.84	L1	GND
0.242	FINAL	—	33.17	52.02	-18.85	L1	GND
0.242	FINAL	47.0	—	62.02	-15.01	L1	GND
0.485	FINAL	—	26.07	46.25	-20.18	L1	GND
0.485	FINAL	40.7	—	56.25	-15.59	L1	GND
0.728	FINAL	36.5	—	56.00	-19.48	L1	GND
0.728	FINAL	—	20.03	46.00	-25.97	L1	GND
1.214	FINAL	33.8	—	56.00	-22.20	L1	GND
1.214	FINAL	—	18.99	46.00	-27.01	L1	GND
4.727	FINAL	—	18.89	46.00	-27.11	L1	GND
4.727	FINAL	34.1	—	56.00	-21.94	L1	GND

Table 7-59. AC Line Conducted Data TxBF (BDR GFSK ePA– 5844MHz) (L1) with AC/DC Adapter

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Plot 7-140. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5844MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	38.21	55.40	-17.19	N	GND
0.161	FINAL	50.4	—	65.40	-14.98	N	GND
0.242	FINAL	—	33.61	52.02	-18.41	N	GND
0.242	FINAL	47.2	—	62.02	-14.84	N	GND
0.488	FINAL	—	26.17	46.21	-20.04	N	GND
0.488	FINAL	40.7	—	56.21	-15.49	N	GND
0.731	FINAL	36.5	—	56.00	-19.54	N	GND
0.731	FINAL	—	20.50	46.00	-25.50	N	GND
1.082	FINAL	35.5	—	56.00	-20.52	N	GND
1.082	FINAL	—	19.79	46.00	-26.21	N	GND
4.837	FINAL	—	22.52	46.00	-23.48	N	GND
4.837	FINAL	35.9	—	56.00	-20.09	N	GND

Table 7-60. AC Line Conducted Data TxBF (BDR GFSK ePA – 5844MHz) (N) with AC/DC Adapter

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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: BCGA2836, IC: 579C-A2836** 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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