

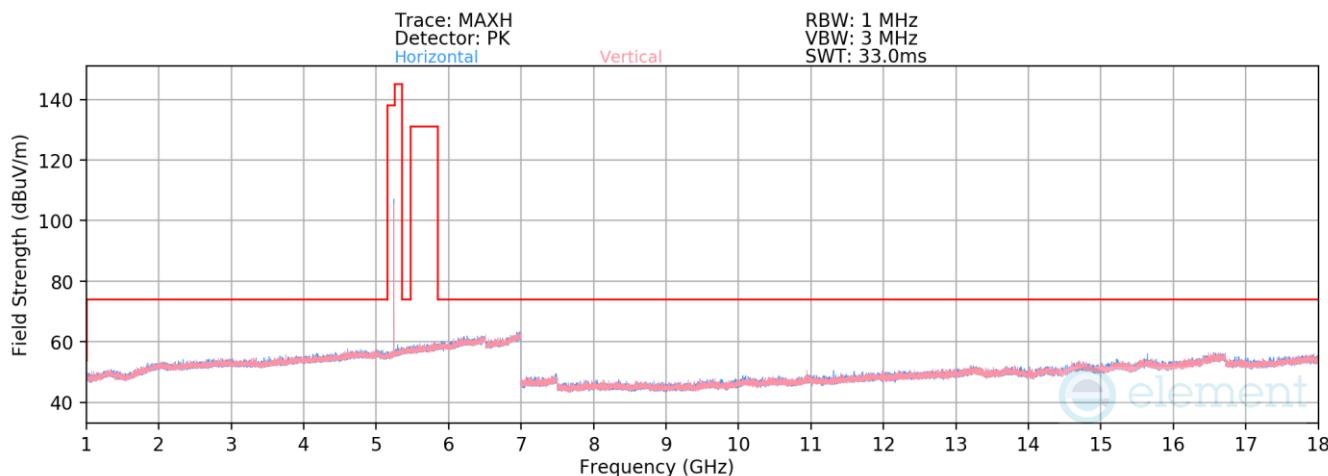
Plot 7-104. Radiated Spurious Emissions 1-18GHz Antenna 2a (BDR GFSK ePA – 5204MHz)

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	-	-	-67.36	8.41	48.05	68.20	-20.15
*	Average	V	-	-	-78.25	13.98	42.73	53.98	-11.25
*	Peak	V	-	-	-67.70	13.98	53.28	73.98	-20.70

Table 7-42. Radiated Spurious Emissions Measurements Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 98 of 128



Plot 7-105. Radiated Spurious Emissions 1-18GHz Antenna 2a (BDR GFSK ePA – 5245MHz)

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

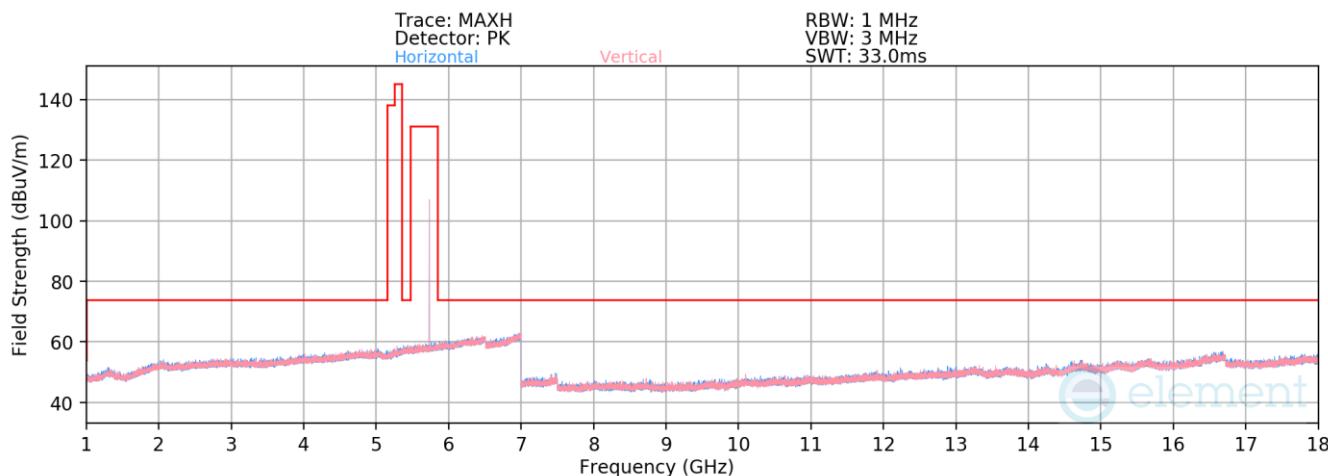
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10490.00	Peak	V	-	-	-66.37	8.43	49.06	68.20	-19.14
* 15735.00	Average	V	-	-	-77.82	13.07	42.25	53.98	-11.73
* 15735.00	Peak	V	-	-	-66.91	13.07	53.16	73.98	-20.82

Table 7-43. Radiated Spurious Emissions Measurements Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

V 10.5 12/15/2021

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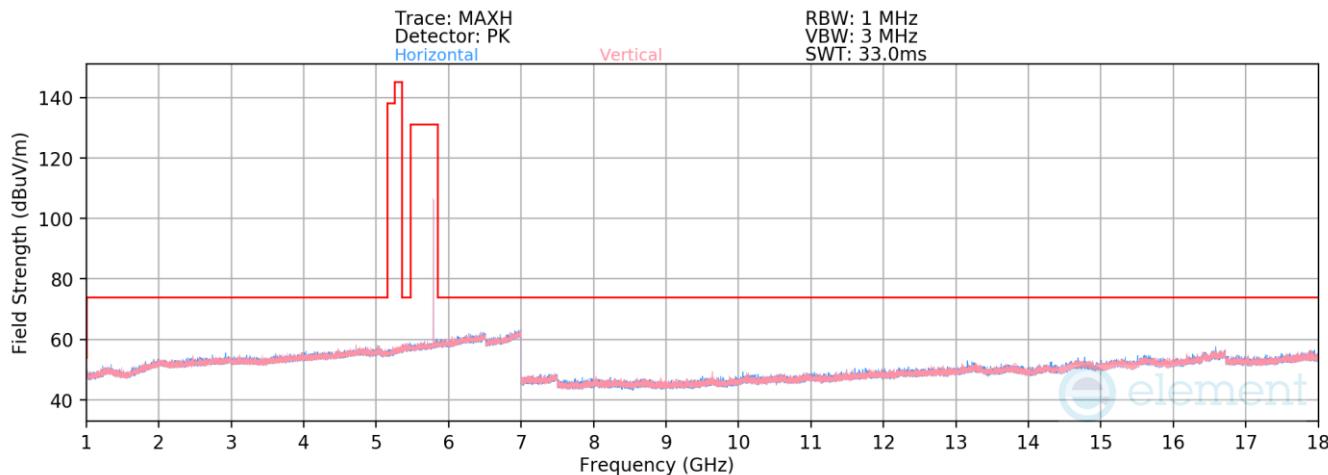
Plot 7-106. Radiated Spurious Emissions 1-18GHz Antenna 2a (BDR GFSK ePA – 5733MHz)

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	-	-	-78.18	9.34	38.16	53.98	-15.82
* 11466.00	Peak	V	-	-	-66.47	9.34	49.87	73.98	-24.11
17199.00	Peak	V	-	-	-68.31	16.17	54.86	68.20	-13.34

Table 7-44. Radiated Spurious Emissions Measurements Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837	 element MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device		



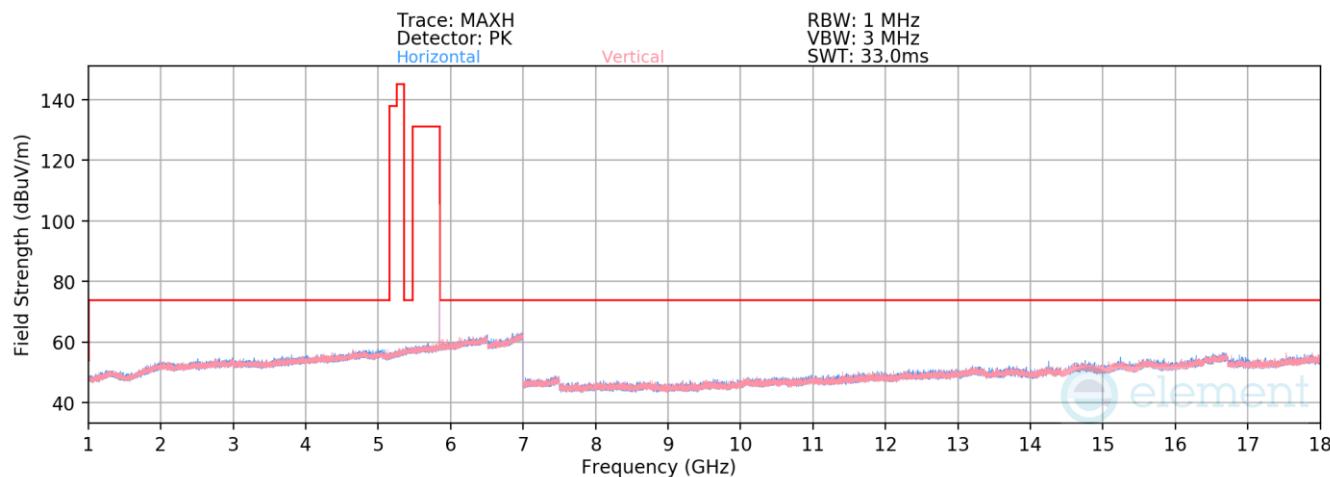
Plot 7-107. Radiated Spurious Emissions 1-18GHz Antenna 2a (BDR GFSK ePA – 5789MHz)

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	-	-	-78.63	9.31	37.68	53.98	-16.30
* 11578.00	Peak	V	-	-	-67.48	9.31	48.83	73.98	-25.15
17367.00	Peak	V	-	-	-69.12	17.30	55.18	68.20	-13.02

Table 7-45. Radiated Spurious Emissions Measurements Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 101 of 128



Plot 7-108. Radiated Spurious Emissions 1-18GHz Antenna 2a (BDR GFSK ePA – 5844MHz)

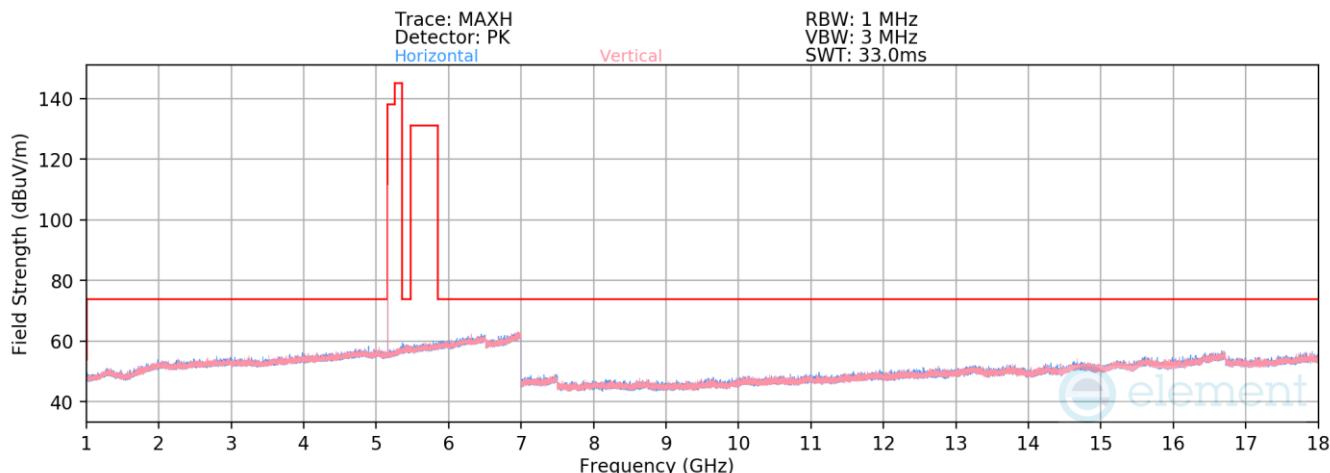
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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	-	-	-78.19	9.56	38.37	53.98	-15.61
* 11688.00	Peak	V	-	-	-66.49	9.56	50.07	73.98	-23.91
* 17532.00	Peak	V	-	-	-81.26	18.80	44.54	68.20	-23.66

Table 7-46. Radiated Spurious Emissions Measurements Antenna 2a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 102 of 128

7.6.4 TxBF Radiated Spurious Emission (Above 1GHz)



Plot 7-109. 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

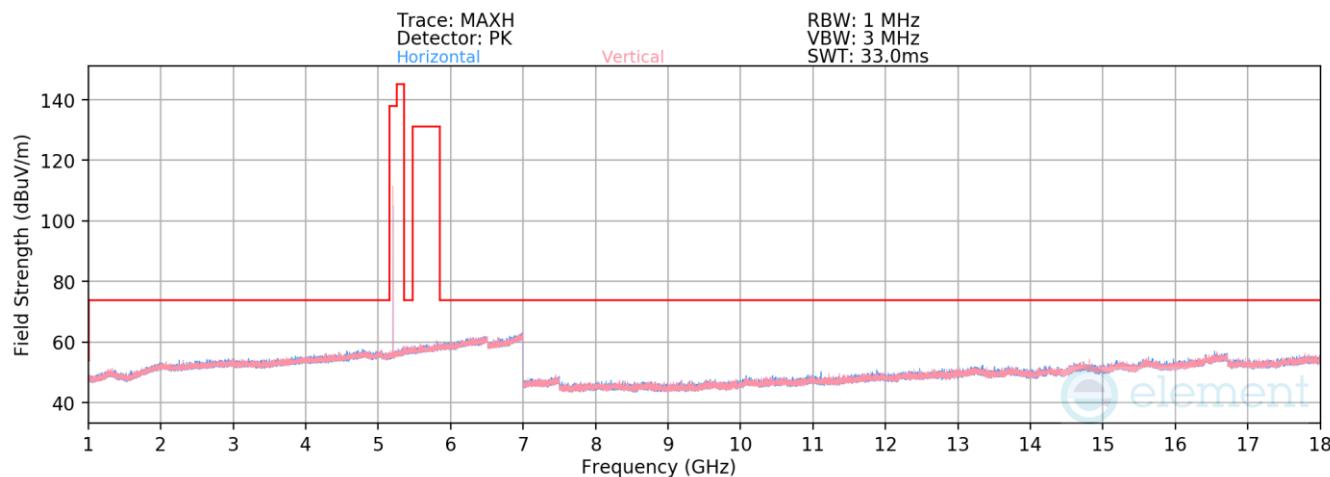
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10324.00	Peak	V	-	-	-67.20	8.38	48.18	68.20	-20.02
* 15486.00	Average	V	-	-	-79.99	13.94	40.95	53.98	-13.03
* 15486.00	Peak	V	-	-	-68.69	13.94	52.25	73.98	-21.73

Table 7-47. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

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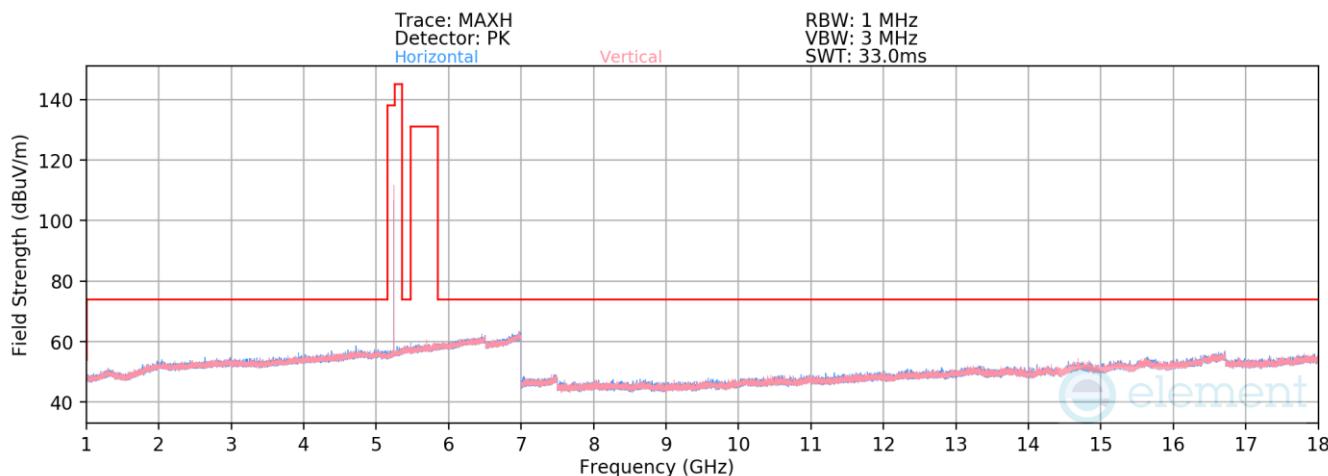
Plot 7-110. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5204MHz)

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

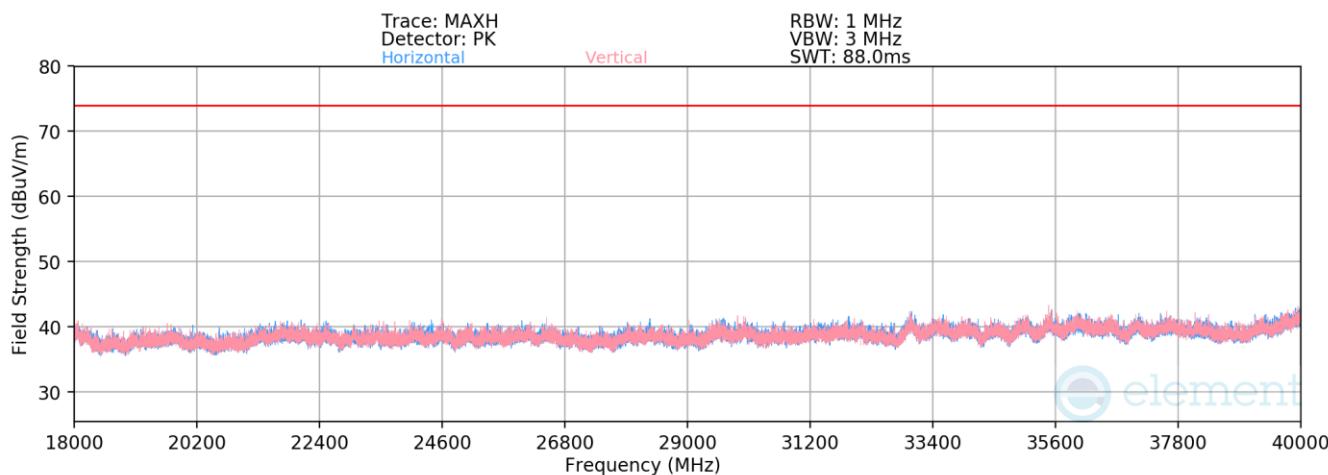
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	V	-	-	-66.50	8.41	48.91	68.20	-19.29
* 15612.00	Average	V	-	-	-78.51	13.98	42.47	53.98	-11.51
* 15612.00	Peak	V	-	-	-66.12	13.98	54.86	73.98	-19.12

Table 7-48. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 104 of 128



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



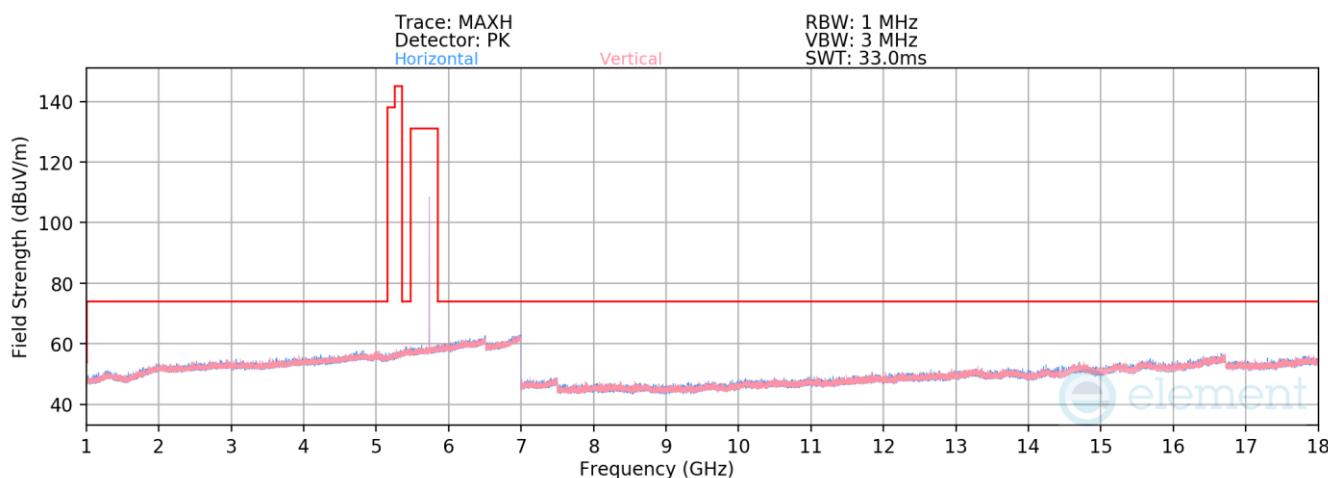
Plot 7-112. Radiated Spurious Emissions Above 18GHz TxBF (BDR GFSK ePA – 5245MHz)

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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	V	-	-	-66.79	8.43	48.64	68.20	-19.56
* 15735.00	Average	V	-	-	-78.19	13.07	41.88	53.98	-12.10
* 15735.00	Peak	V	-	-	-66.28	13.07	53.79	73.98	-20.19

Table 7-49. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element MEASUREMENT REPORT (CERTIFICATION)					Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device				Page 105 of 128



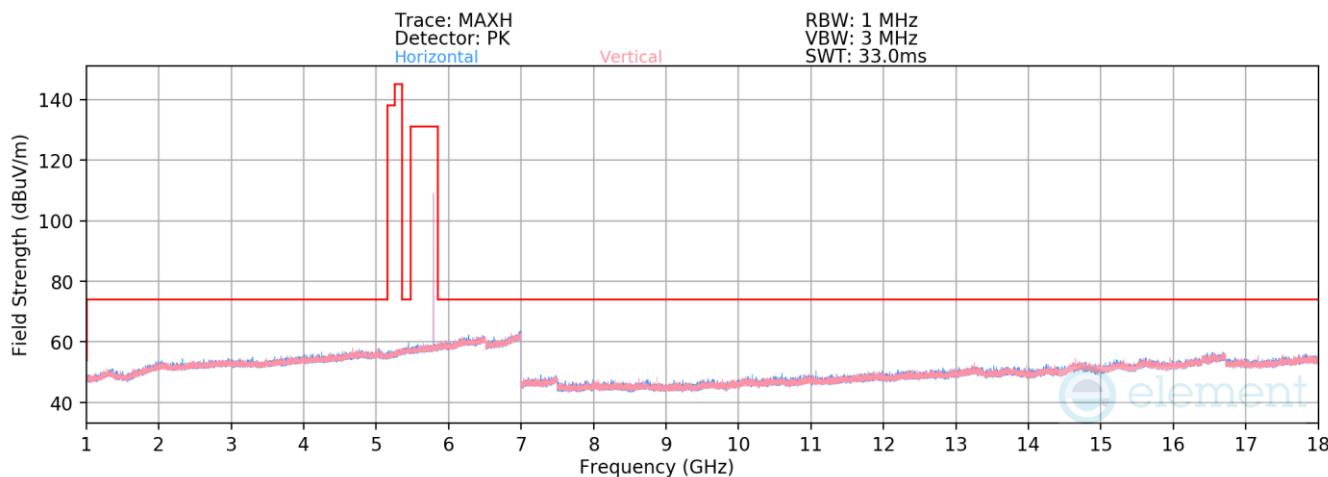
Plot 7-113. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5733MHz)

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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11466.00	Average	V	-	-	-78.39	9.34	37.95	53.98	-16.03
* 11466.00	Peak	V	-	-	-66.65	9.34	49.69	73.98	-24.29
17199.00	Peak	V	-	-	-68.59	16.17	54.58	68.20	-13.62

Table 7-50. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 106 of 128



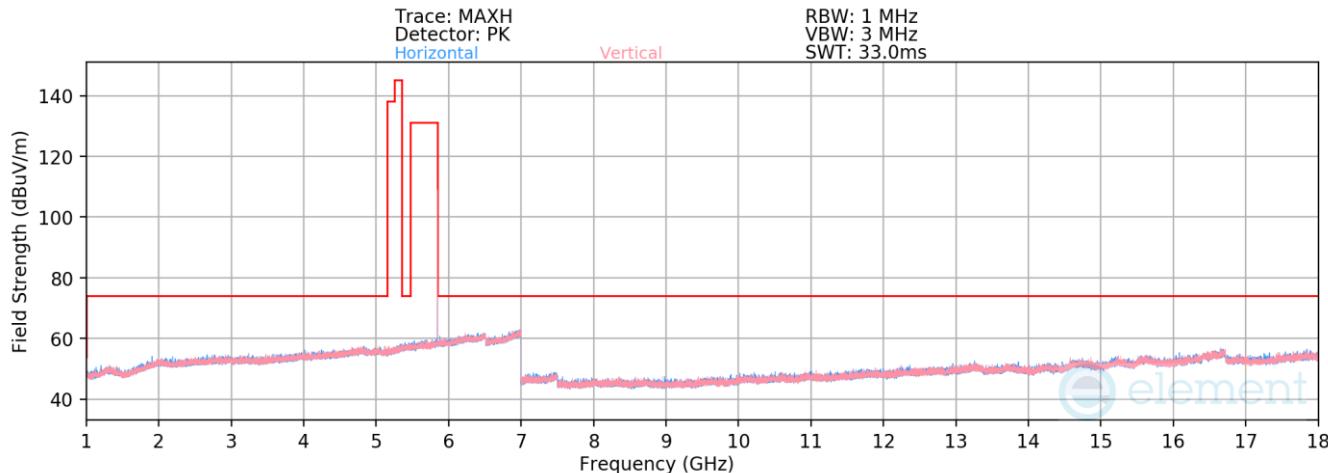
Plot 7-114. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5789MHz)

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

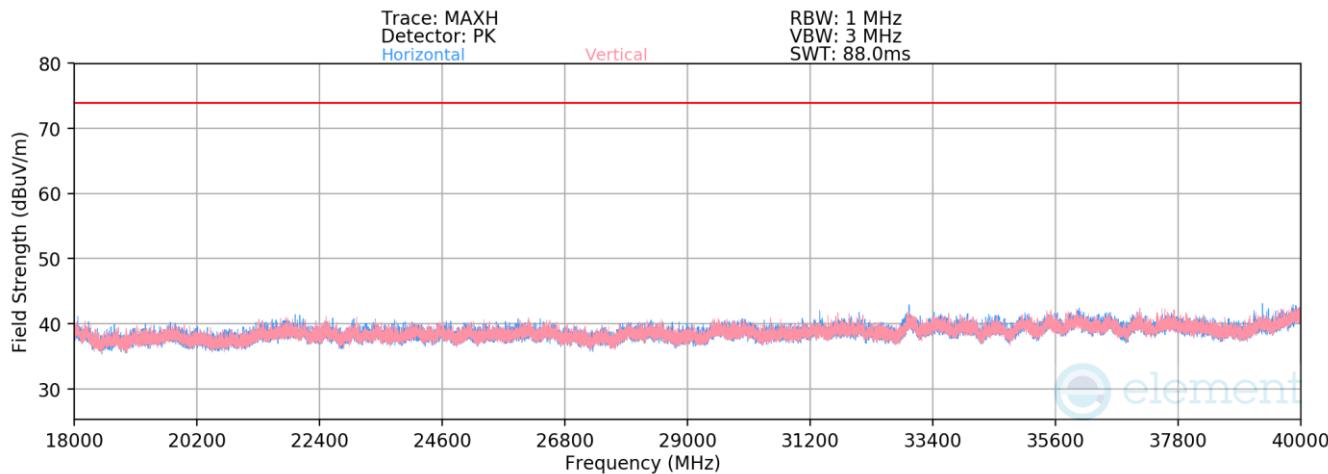
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11578.00	Average	V	-	-	-78.40	9.31	37.91	53.98	-16.07
* 11578.00	Peak	V	-	-	-66.39	9.31	49.92	73.98	-24.06
17367.00	Peak	V	-	-	-69.49	17.30	54.81	68.20	-13.39

Table 7-51. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 107 of 128



Plot 7-115. Radiated Spurious Emissions 1-18GHz TxBF (BDR GFSK ePA – 5844MHz)



Plot 7-116. Radiated Spurious Emissions Above 18GHz (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	-	-	-77.92	9.56	38.64	53.98	-15.34
* 11688.00	Peak	V	-	-	-66.14	9.56	50.42	73.98	-23.56
17532.00	Peak	V	-	-	-81.23	18.80	44.57	68.20	-23.63

Table 7-52. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device					

V 10.5 12/15/2021

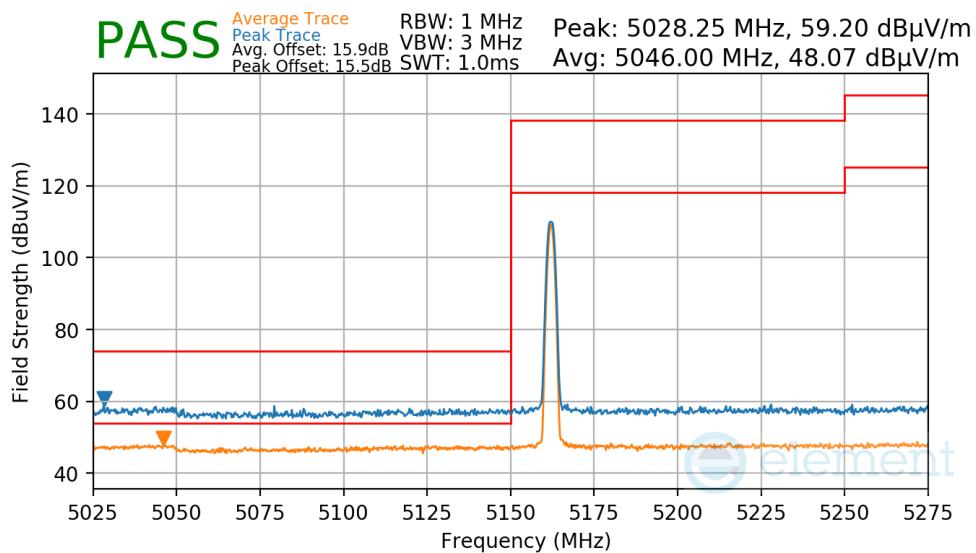
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7.6.5 Radiated Band Edge Measurements

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

Antenna 5b

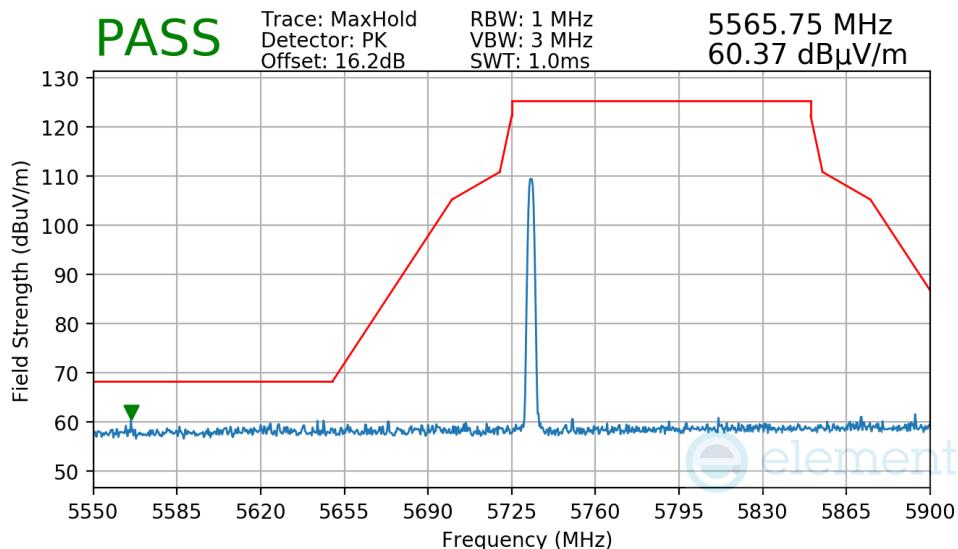
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-117. Radiated Lower Band Edge Measurement Antenna 5b

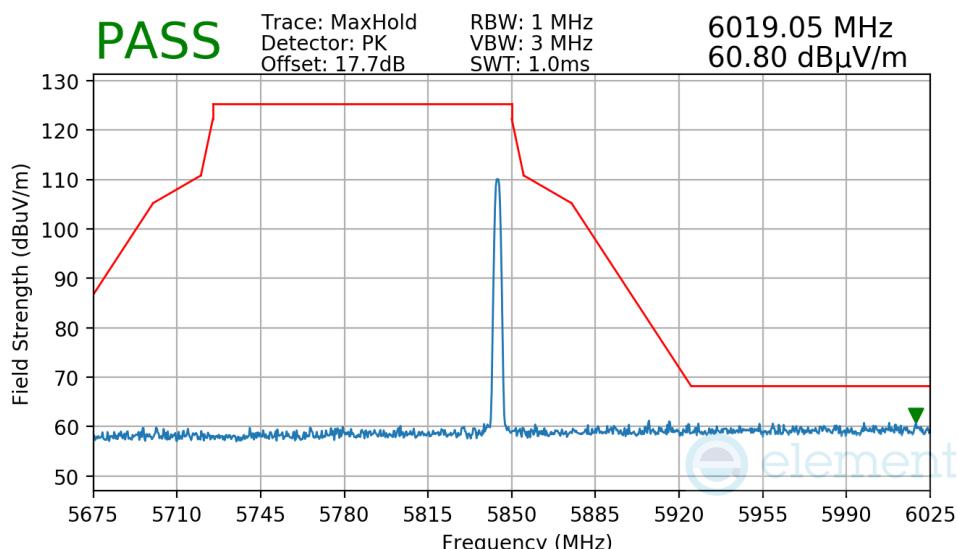
FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 109 of 128

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



Plot 7-118. Radiated Lower Band Edge Measurement Antenna 5b

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

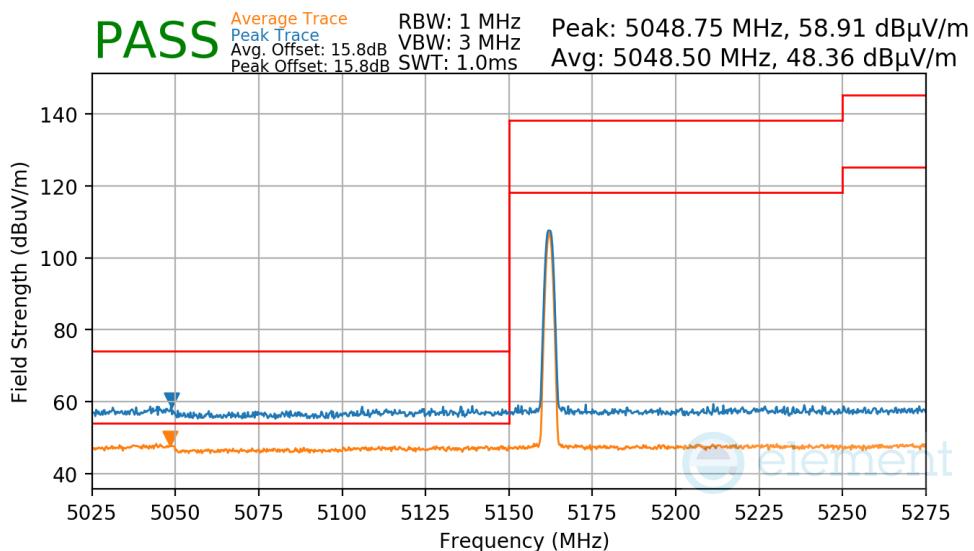


Plot 7-119. Radiated Upper Band Edge Measurement Antenna 5b

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 110 of 128

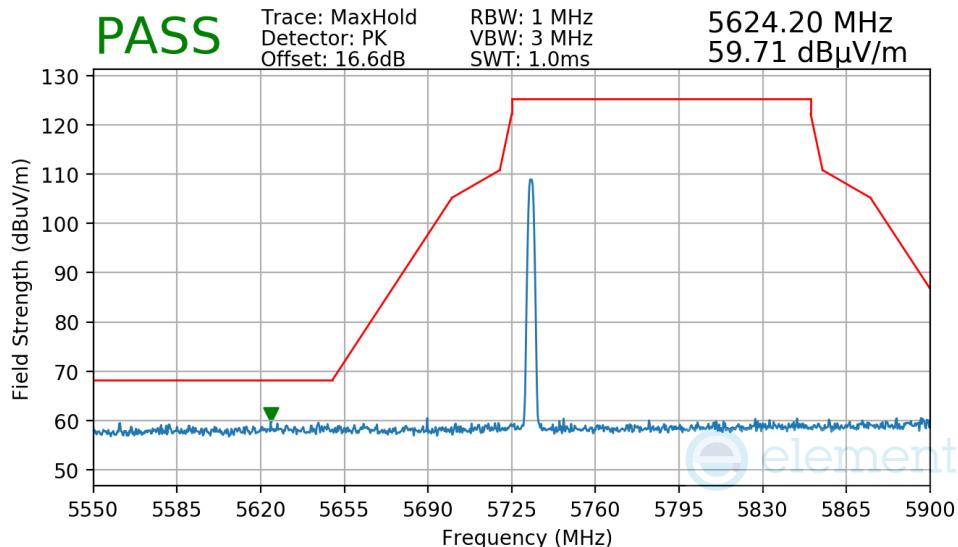
Radiated Band Edge Measurements
§15.407(b.1) §15.205 §15.209; RSS-Gen [8.9]
Antenna 4a

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


Plot 7-120. Radiated Lower Band Edge Measurement Antenna 4a

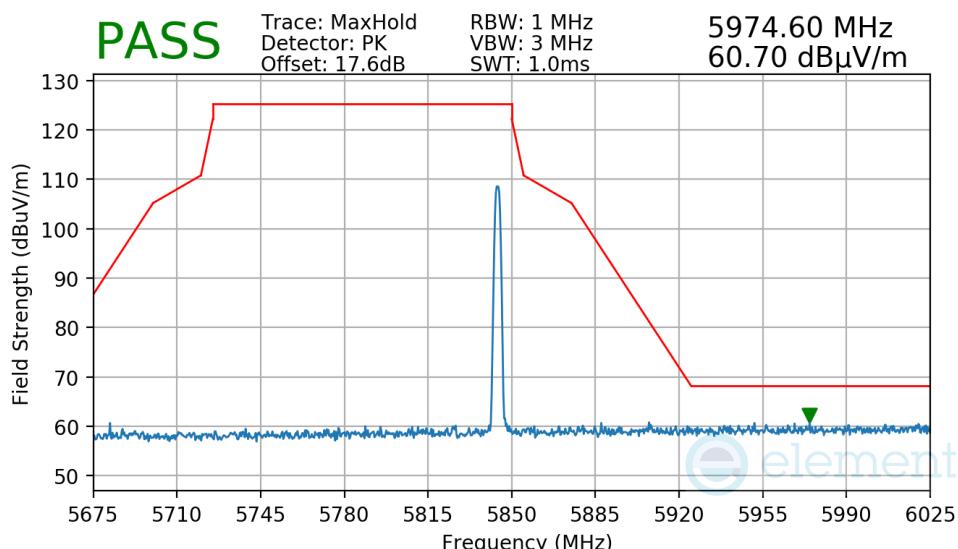
FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 111 of 128

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



Plot 7-121. Radiated Lower Band Edge Measurement Antenna 4a

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

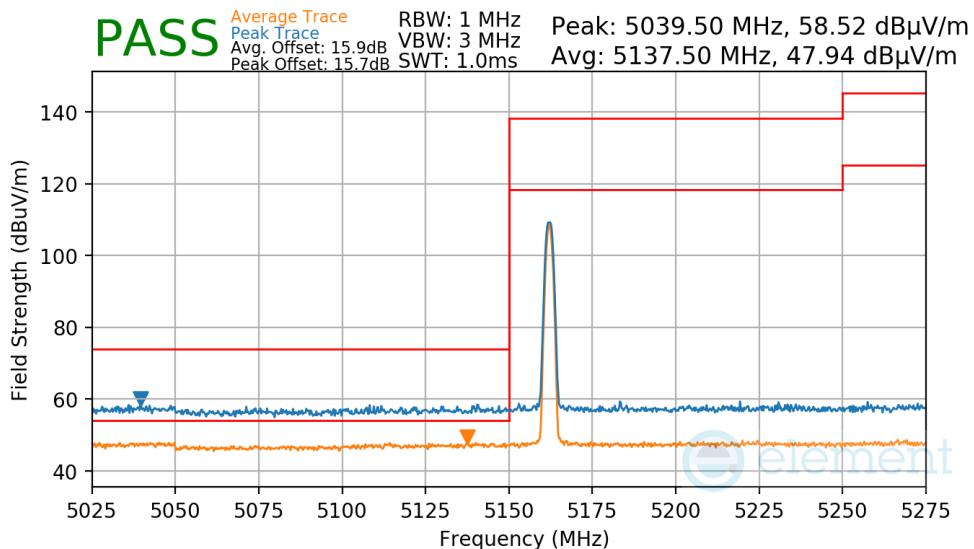


Plot 7-122. Radiated Upper Band Edge Measurement Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 112 of 128

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

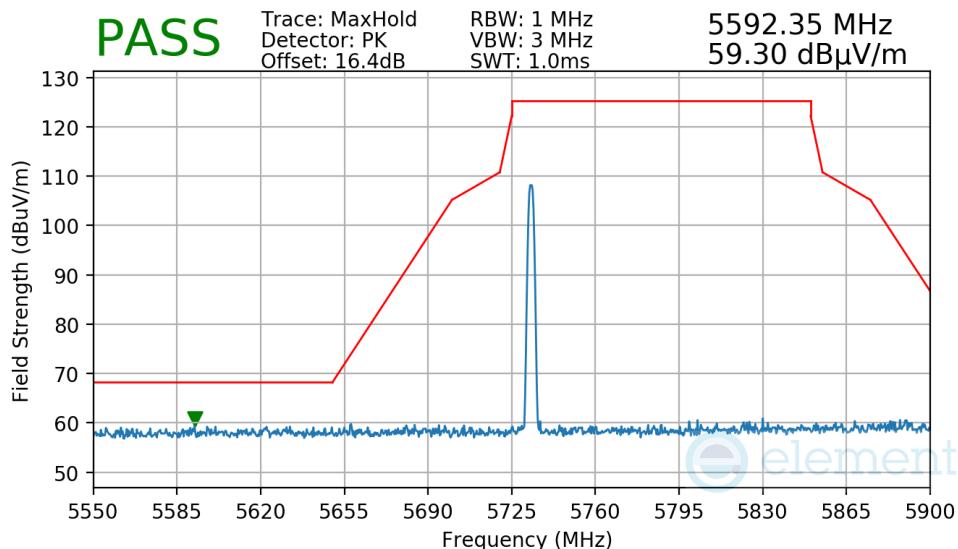
Mode:	BDR
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-123. Radiated Lower Band Edge Measurement Antenna 2a

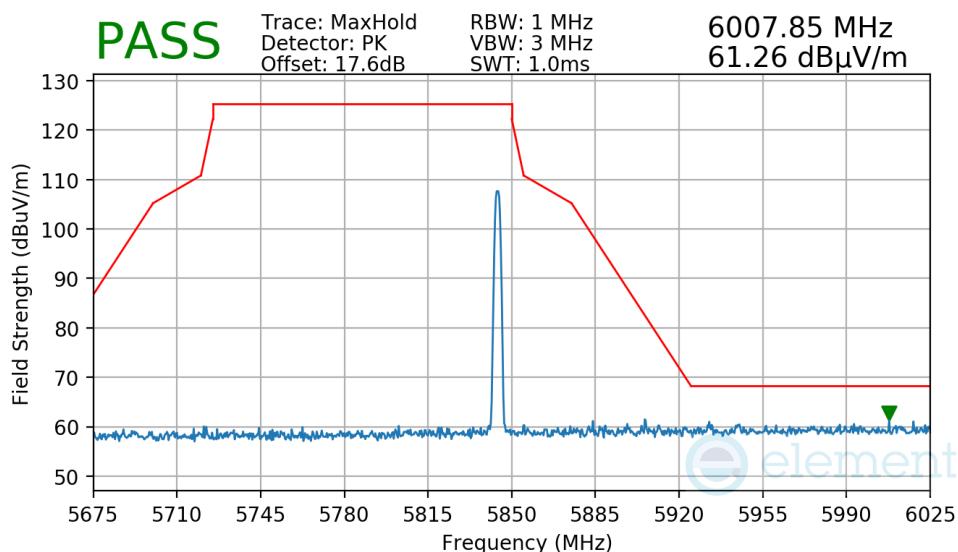
FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 113 of 128

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



Plot 7-124. Radiated Lower Band Edge Measurement Antenna 2a

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



Plot 7-125. Radiated Upper Band Edge Measurement Antenna 2a

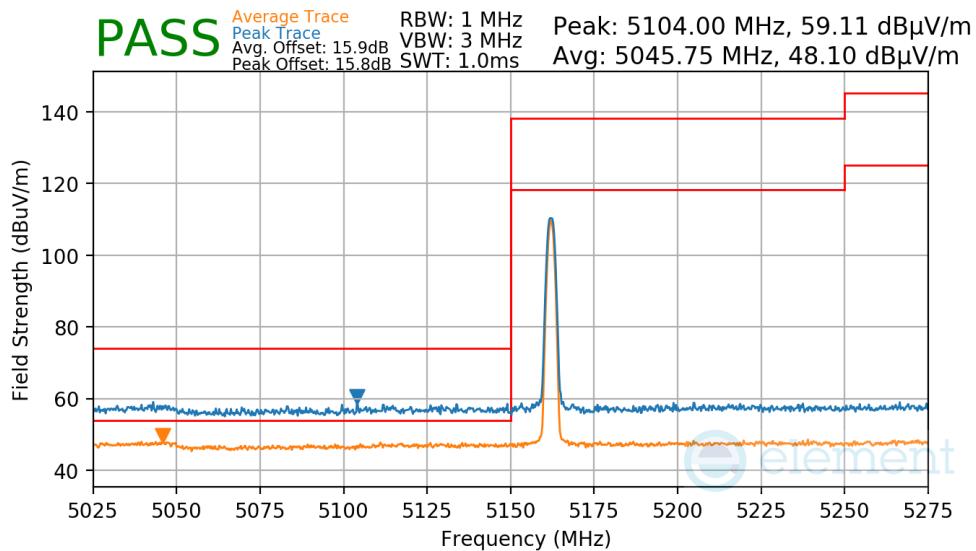
FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 114 of 128

Radiated Band Edge Measurements

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

TxBF

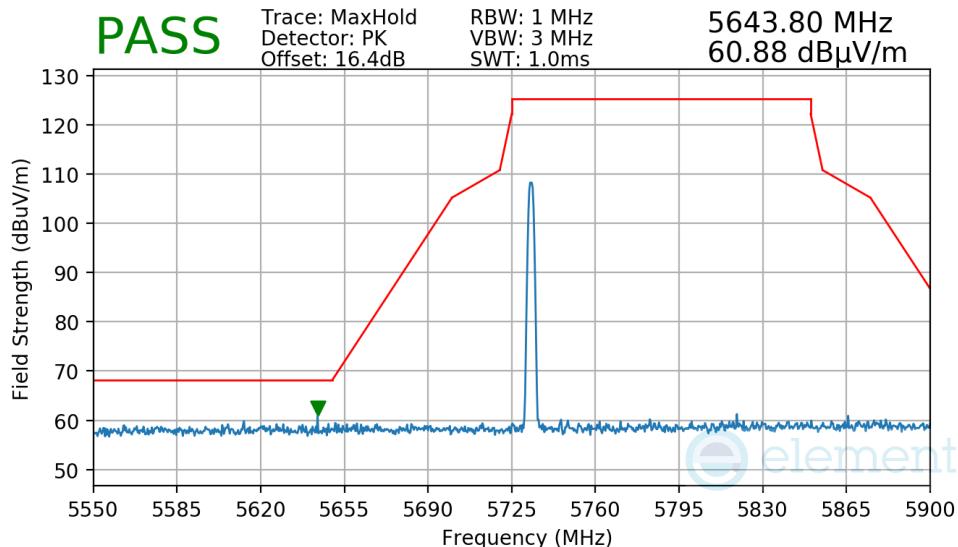
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-126. Radiated Lower Band Edge Measurement Tx BF

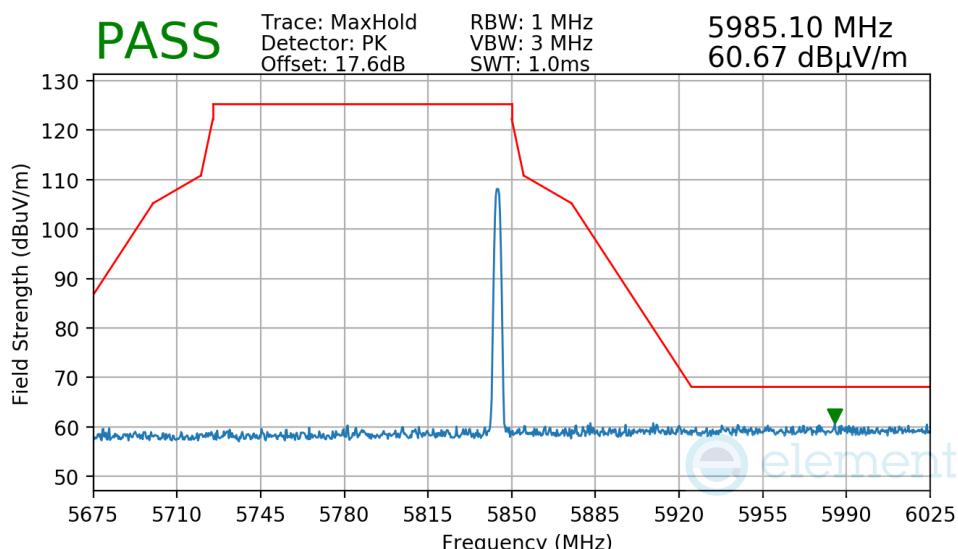
FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 115 of 128

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



Plot 7-127. Radiated Lower Band Edge Measurement TxBF

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



Plot 7-128. Radiated Upper Band Edge Measurement TxBF

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 116 of 128

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 must not exceed the limits shown in Table 7-53 per Section 15.209.

Frequency	Field Strength [μ 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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 117 of 128

Test Setup

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

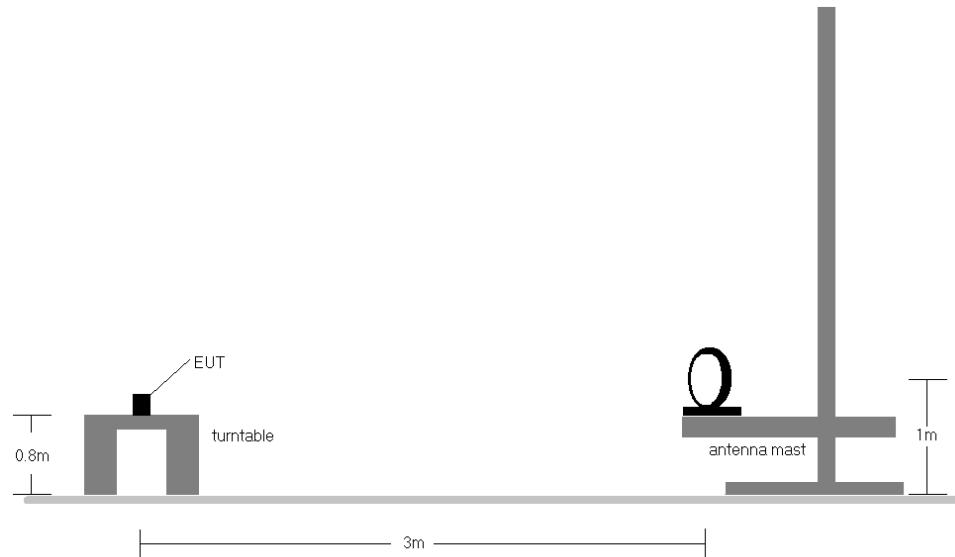


Figure 7-6. Radiated Test Setup < 30MHz

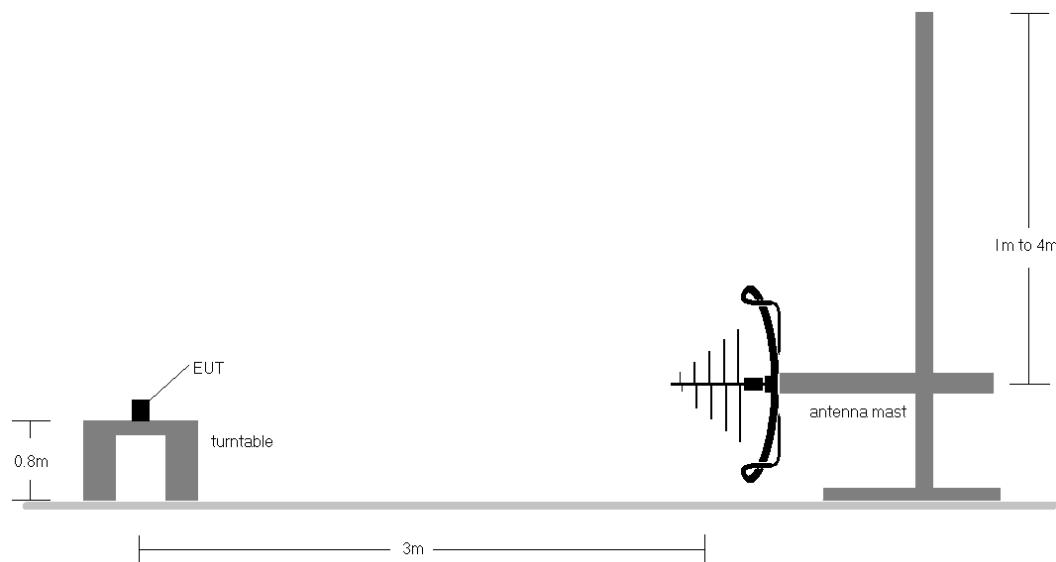


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 118 of 128

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

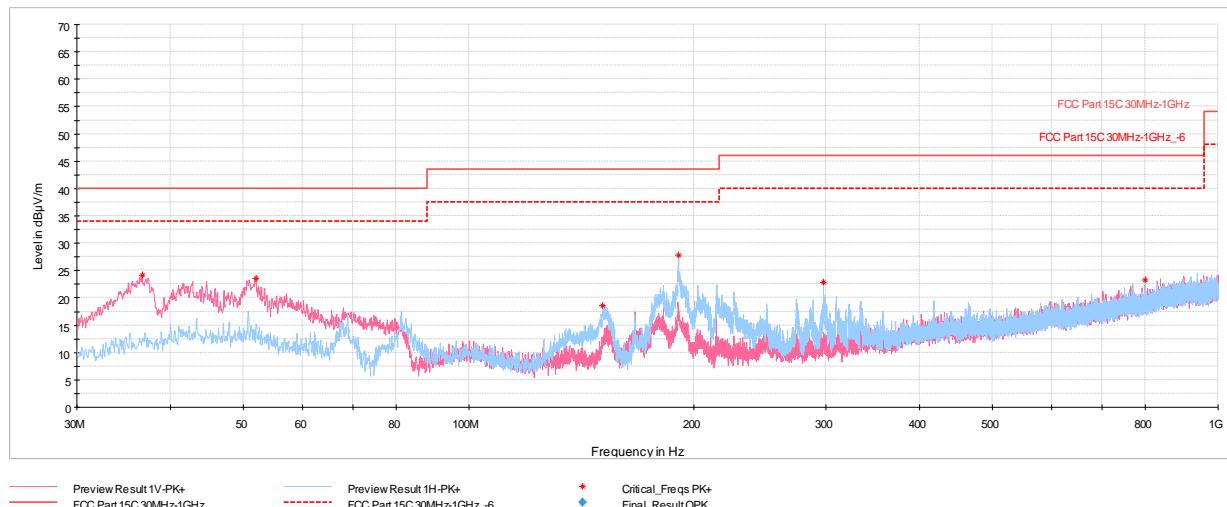
Determining Spurious Emissions Levels

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 119 of 128

Radiated Spurious Emissions (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-129. Radiated Spurious Emissions Below 1GHz TxBF (BDR GFSK ePA – 5245MHz), with AC/DC Adapter

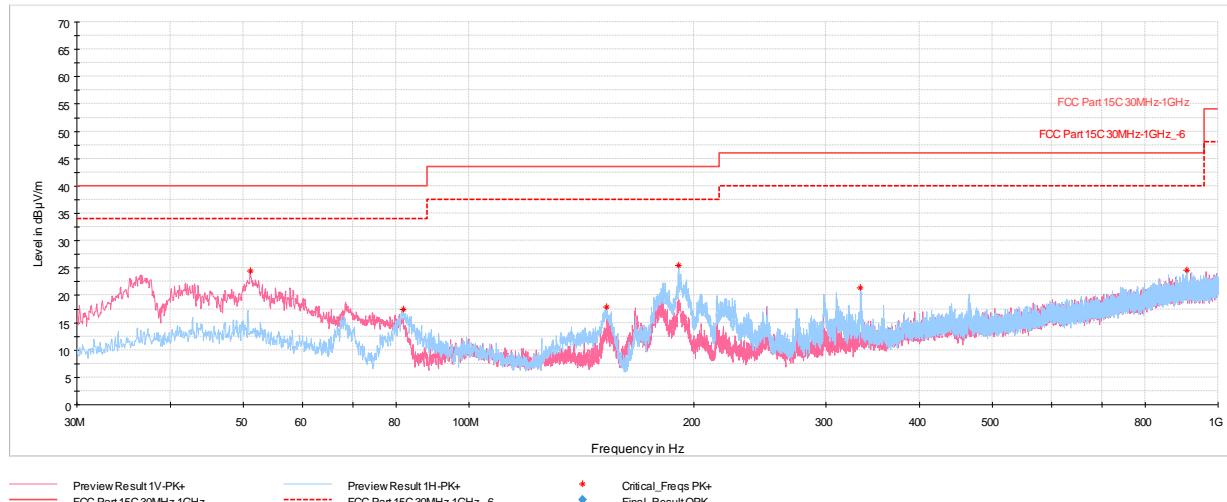
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
36.69	Max-Peak	V	100	267	-67.56	-15.31	24.13	40.00	-15.87
52.02	Max-Peak	V	100	323	-70.32	-13.14	23.54	40.00	-16.46
151.01	Max-Peak	H	200	231	-68.28	-20.17	18.55	43.52	-24.97
190.54	Max-Peak	H	100	212	-61.70	-17.43	27.87	43.52	-15.65
297.62	Max-Peak	H	100	0	-69.54	-14.55	22.91	46.02	-23.11
799.26	Max-Peak	H	200	341	-79.01	-4.66	23.33	46.02	-22.69

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

V 10.5 12/15/2021

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Plot 7-130. 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]
51.10	Max-Peak	V	100	0	-69.45	-13.13	24.42	40.00	-15.58
81.75	Max-Peak	H	200	132	-68.70	-20.83	17.47	40.00	-22.53
152.75	Max-Peak	H	200	0	-69.09	-20.07	17.84	43.52	-25.68
190.49	Max-Peak	H	200	214	-64.08	-17.43	25.49	43.52	-18.03
333.37	Max-Peak	H	100	200	-72.43	-13.24	21.33	46.02	-24.69
907.75	Max-Peak	H	300	322	-80.17	-2.21	24.62	46.02	-21.40

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

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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.

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 122 of 128

Test Setup

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

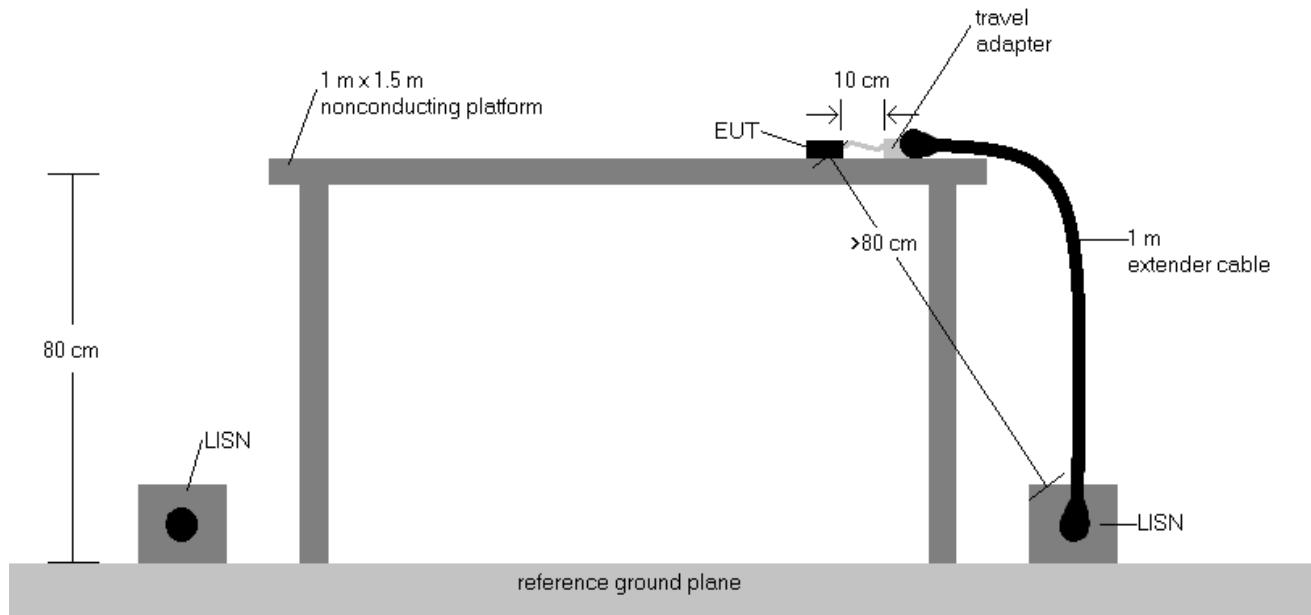
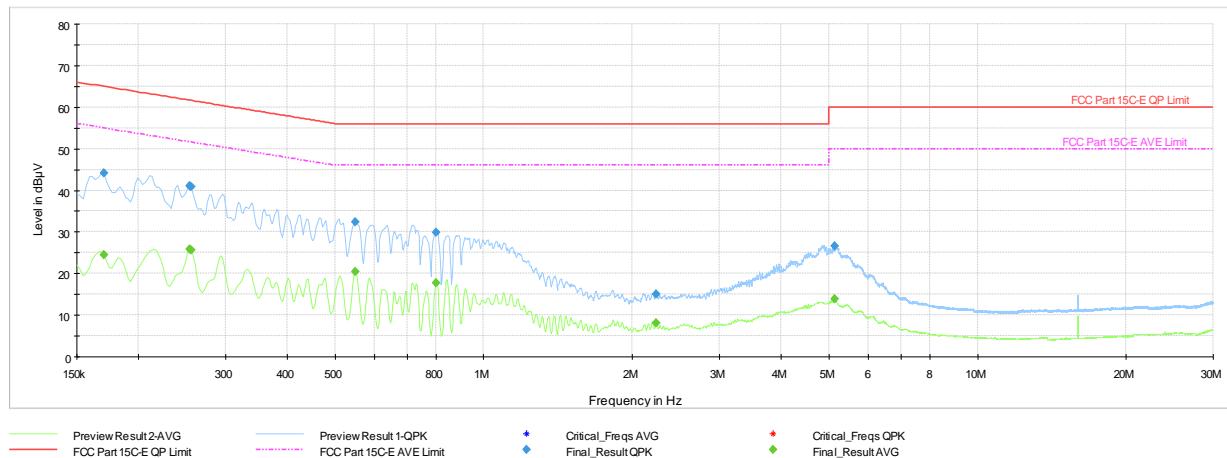


Figure 7-8. Test Instrument & Measurement Setup

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. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 123 of 128



Plot 7-131. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5245MHz) (L1) with AC/DC Adapter

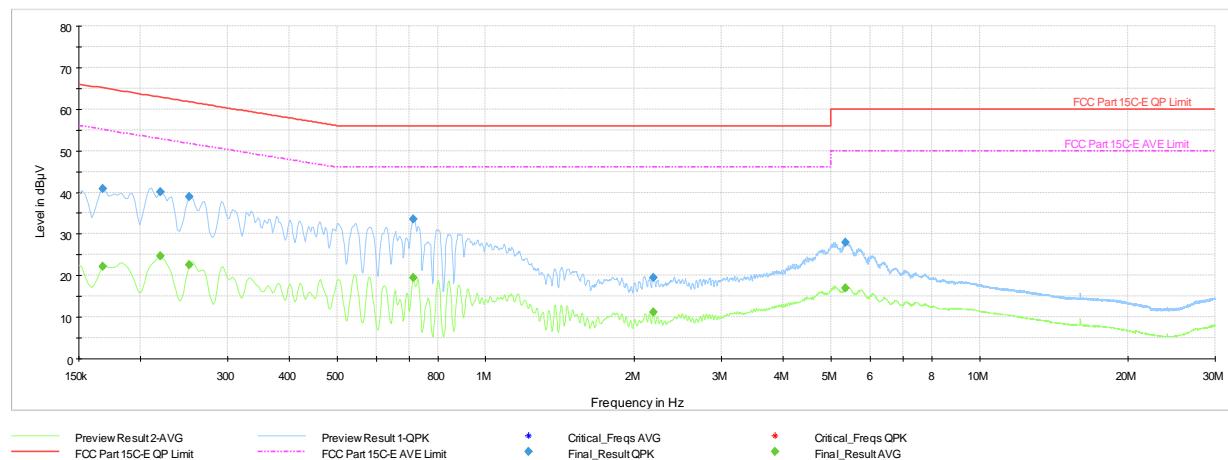
Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.170	FINAL	—	24.54	54.95	-30.41	L1	GND
0.170	FINAL	44.1	—	64.95	-20.81	L1	GND
0.254	FINAL	—	25.82	51.64	-25.82	L1	GND
0.254	FINAL	41.1	—	61.64	-20.50	L1	GND
0.551	FINAL	—	20.41	46.00	-25.59	L1	GND
0.551	FINAL	32.4	—	56.00	-23.57	L1	GND
0.800	FINAL	29.9	—	56.00	-26.07	L1	GND
0.800	FINAL	—	17.78	46.00	-28.22	L1	GND
2.236	FINAL	15.1	—	56.00	-40.91	L1	GND
2.236	FINAL	—	8.07	46.00	-37.93	L1	GND
5.129	FINAL	—	13.81	50.00	-36.19	L1	GND
5.129	FINAL	26.6	—	60.00	-33.41	L1	GND

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

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Plot 7-132. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5245MHz) (N) with AC/DC Adapter

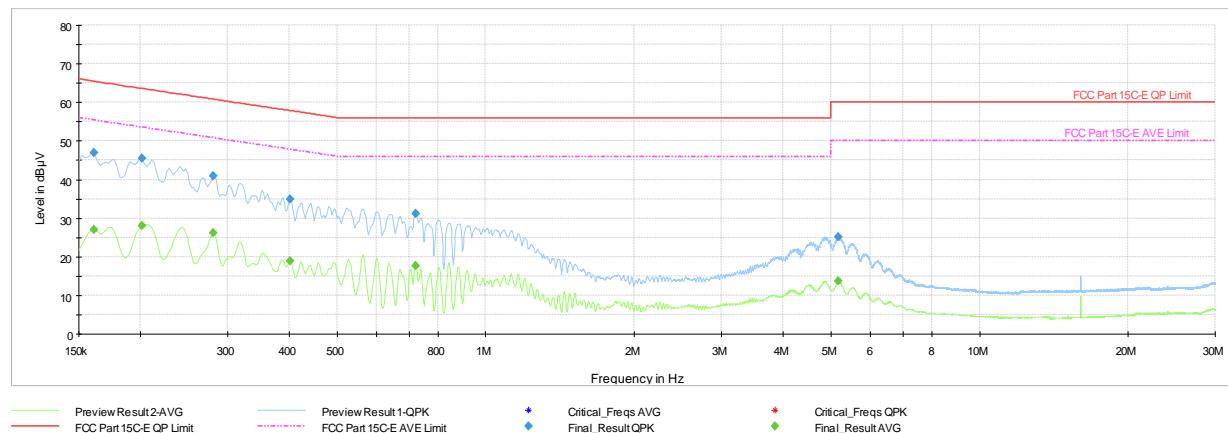
Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.168	FINAL	—	22.10	55.06	-32.95	N	GND
0.168	FINAL	40.9	—	65.06	-24.16	N	GND
0.220	FINAL	—	24.59	52.83	-28.24	N	GND
0.220	FINAL	40.2	—	62.83	-22.68	N	GND
0.251	FINAL	—	22.63	51.72	-29.09	N	GND
0.251	FINAL	39.0	—	61.72	-22.69	N	GND
0.713	FINAL	33.5	—	56.00	-22.52	N	GND
0.713	FINAL	—	19.44	46.00	-26.56	N	GND
2.186	FINAL	19.6	—	56.00	-36.45	N	GND
2.186	FINAL	—	11.24	46.00	-34.76	N	GND
5.350	FINAL	—	17.05	50.00	-32.95	N	GND
5.350	FINAL	28.0	—	60.00	-32.05	N	GND

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

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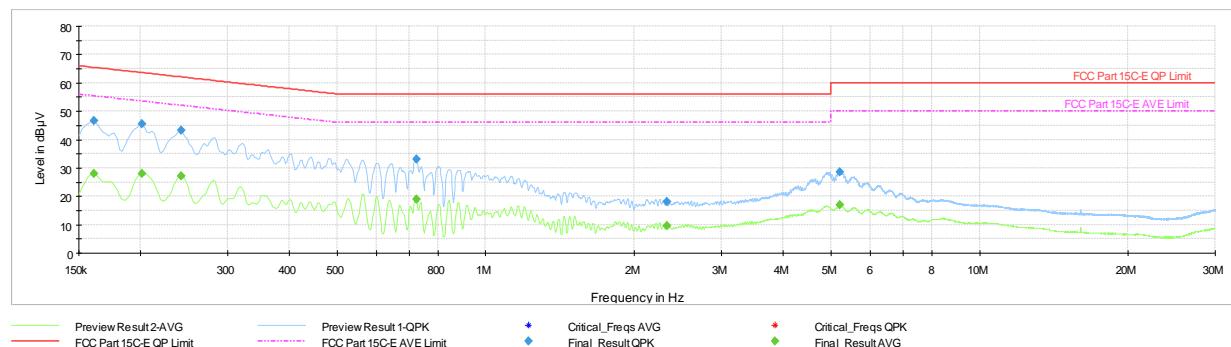


Plot 7-133. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5844MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.161	FINAL	—	27.05	55.40	-28.35	L1	GND
0.161	FINAL	47.0	—	65.40	-18.41	L1	GND
0.202	FINAL	—	28.02	53.54	-25.52	L1	GND
0.202	FINAL	45.6	—	63.54	-17.93	L1	GND
0.281	FINAL	—	26.21	50.80	-24.59	L1	GND
0.281	FINAL	41.0	—	60.80	-19.81	L1	GND
0.402	FINAL	34.9	—	57.81	-22.87	L1	GND
0.402	FINAL	—	18.90	47.81	-28.91	L1	GND
0.722	FINAL	31.2	—	56.00	-24.80	L1	GND
0.722	FINAL	—	17.59	46.00	-28.41	L1	GND
5.168	FINAL	—	13.71	50.00	-36.29	L1	GND
5.168	FINAL	25.1	—	60.00	-34.87	L1	GND

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 126 of 128



Plot 7-134. AC Line Conducted Plot TxBF (BDR GFSK ePA – 5844MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.161	FINAL	—	27.86	55.40	-27.54	N	GND
0.161	FINAL	46.6	—	65.40	-18.78	N	GND
0.202	FINAL	—	27.99	53.54	-25.55	N	GND
0.202	FINAL	45.5	—	63.54	-18.08	N	GND
0.242	FINAL	—	27.19	52.02	-24.83	N	GND
0.242	FINAL	43.1	—	62.02	-18.90	N	GND
0.724	FINAL	33.1	—	56.00	-22.93	N	GND
0.724	FINAL	—	19.07	46.00	-26.93	N	GND
2.328	FINAL	18.2	—	56.00	-37.82	N	GND
2.328	FINAL	—	9.49	46.00	-36.51	N	GND
5.213	FINAL	—	17.00	50.00	-33.00	N	GND
5.213	FINAL	28.5	—	60.00	-31.47	N	GND

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device			

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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: BCGA2837, IC: 579C-A2837 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.

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-19.BCG	Test Dates: 11/28/2023 - 3/20/2024	EUT Type: Tablet Device	Page 128 of 128