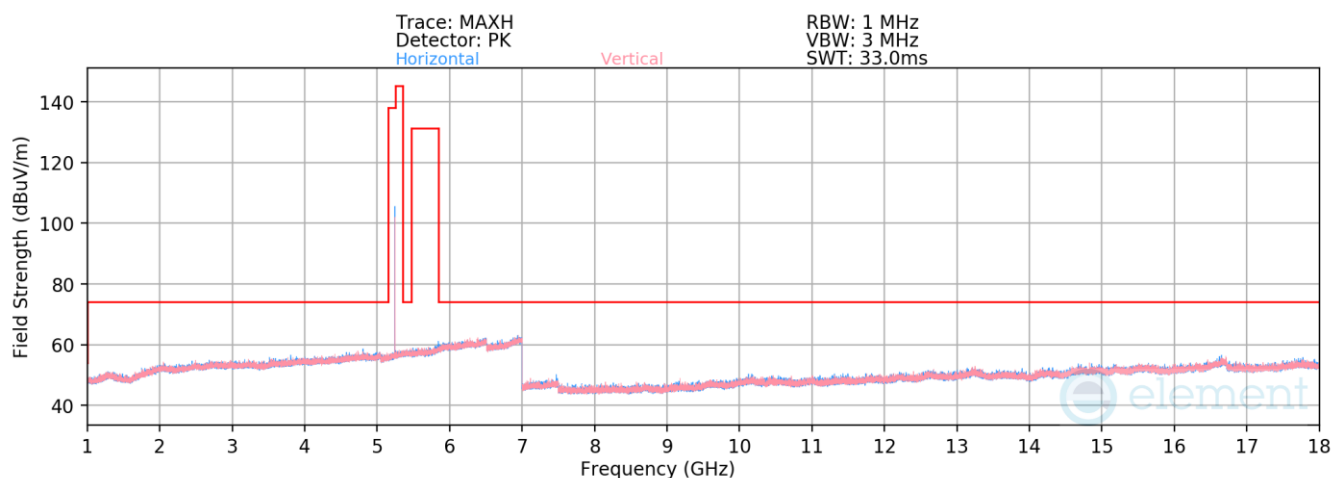




Plot 7-208. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA - 5245MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

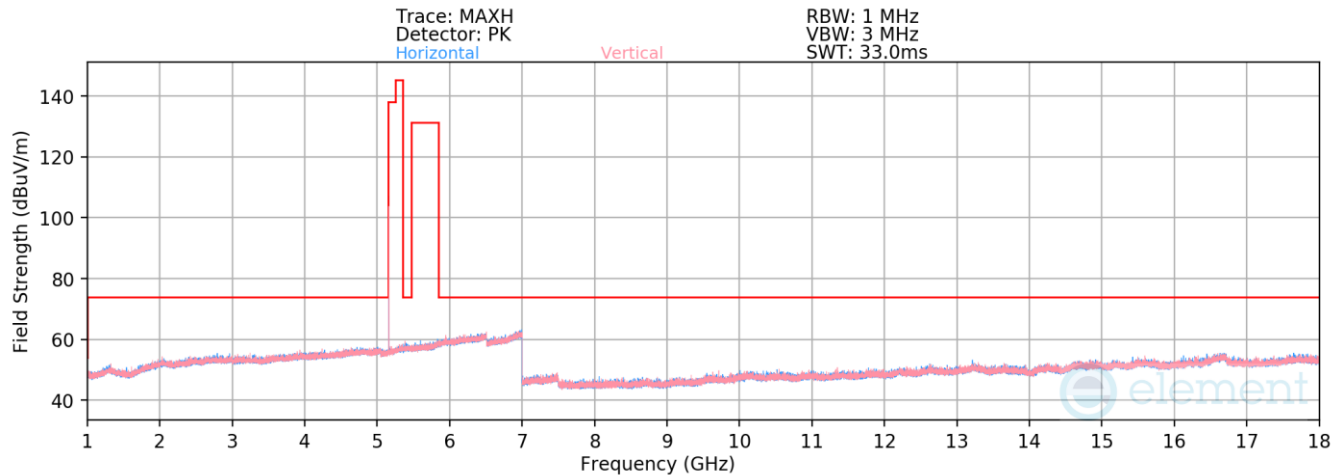
Operating Frequency: 5245MHz

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	H	-	-	-65.98	7.99	49.01	68.23	-19.22
* 15735.00	Avg	V	-	-	-80.99	15.98	41.99	53.98	-11.99
* 15735.00	Peak	V	-	-	-69.80	15.98	53.18	73.98	-20.80

Table 7-42. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 155 of 191

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Plot 7-209. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5162MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

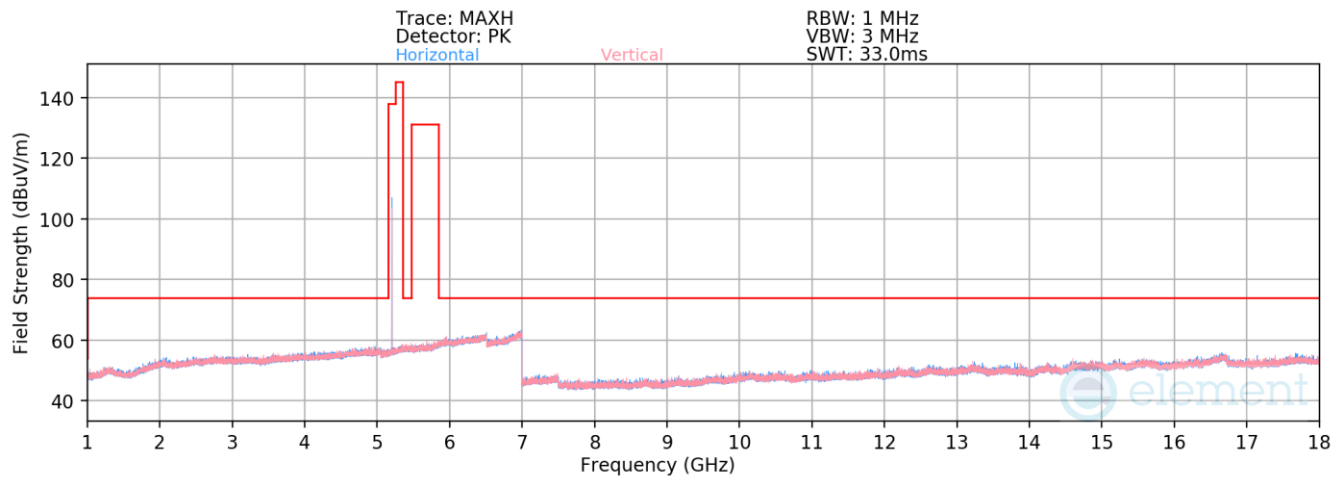
Operating Frequency: 5162MHz

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	H	-	-	-67.08	8.10	48.02	68.23	-20.21
* 15486.00	Avg	H	-	-	-80.41	15.54	42.13	53.98	-11.85
* 15486.00	Peak	H	-	-	-70.07	15.54	52.47	73.98	-21.51

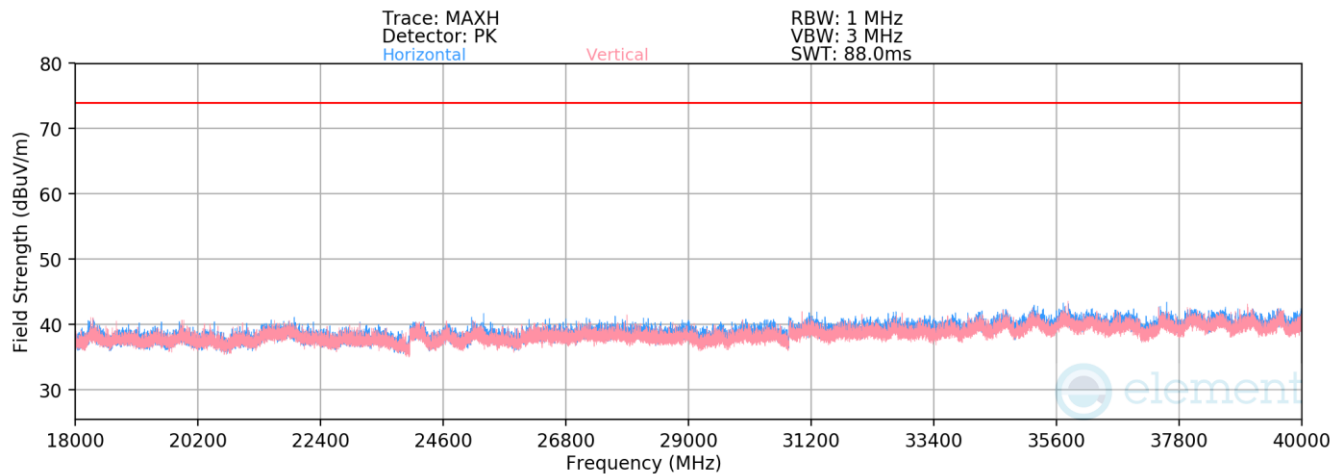
Table 7-43. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 156 of 191

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Plot 7-210. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5204MHz)



Plot 7-211. Radiated Spurious Emissions 18-40GHz Tx BF (NB UNII HDR4 ePA – 5204MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

Operating Frequency: 5204MHz

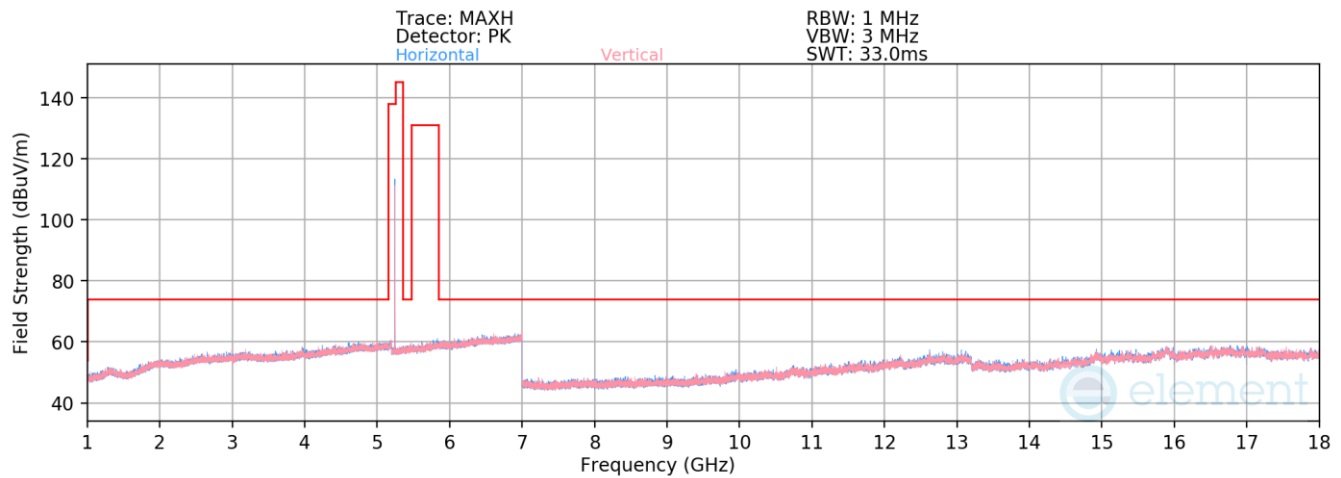
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10408.00	Peak	H	-	-	-66.41	7.76	48.35	68.23	-19.88
* 15612.00	Avg	V	-	-	-80.94	15.91	41.97	53.98	-12.01
* 15612.00	Peak	V	-	-	-69.89	15.91	53.02	73.98	-20.96

Table 7-44. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 157 of 191

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Plot 7-212. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5245MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

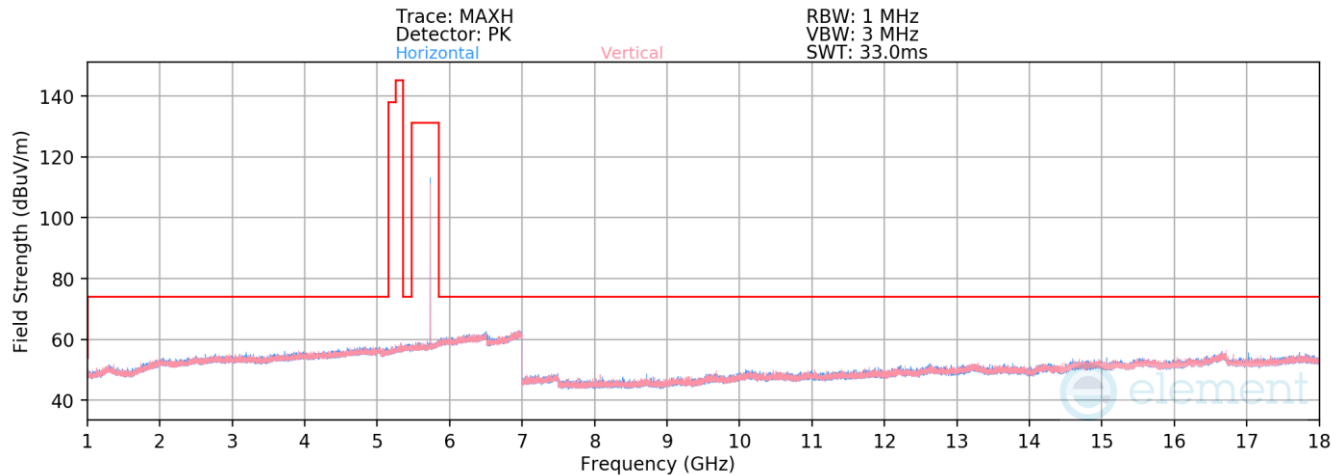
Operating Frequency: 5245MHz

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	H	-	-	-71.21	14.94	50.73	68.23	-17.50
* 15735.00	Avg	V	-	-	-84.92	23.90	45.98	53.98	-8.00
* 15735.00	Peak	V	-	-	-73.52	23.90	57.38	73.98	-16.60

Table 7-45. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 158 of 191

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Plot 7-213. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA – 5733MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

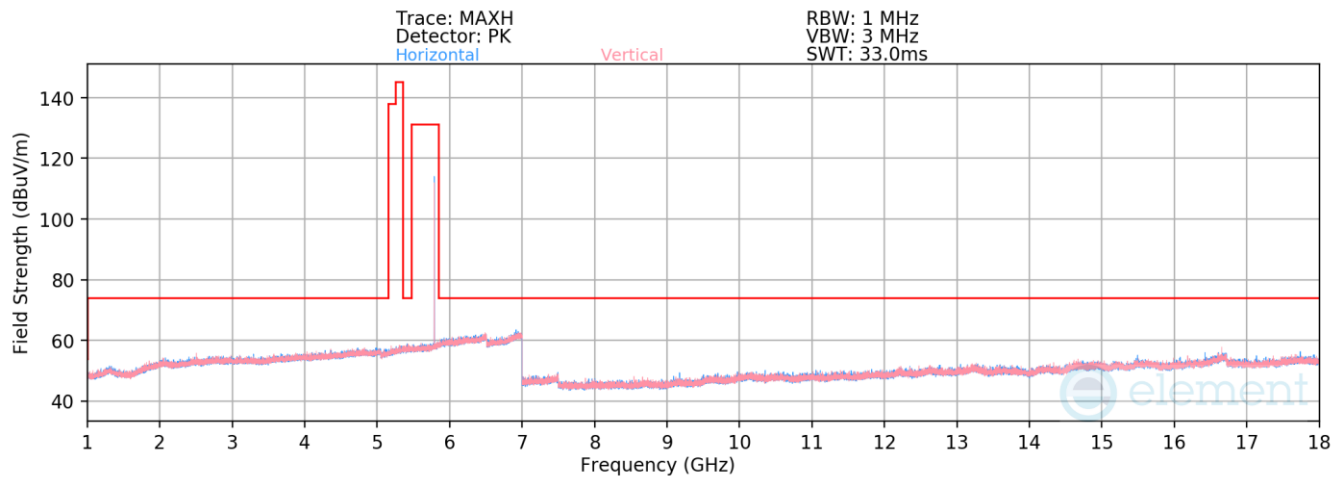
Operating Frequency: 5733MHz

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	Avg	H	-	-	-77.81	9.57	38.76	53.98	-15.22
* 11466.00	Peak	H	-	-	-66.75	9.57	49.82	73.98	-24.16
17199.00	Peak	V	-	-	-70.59	18.10	54.51	68.23	-13.72

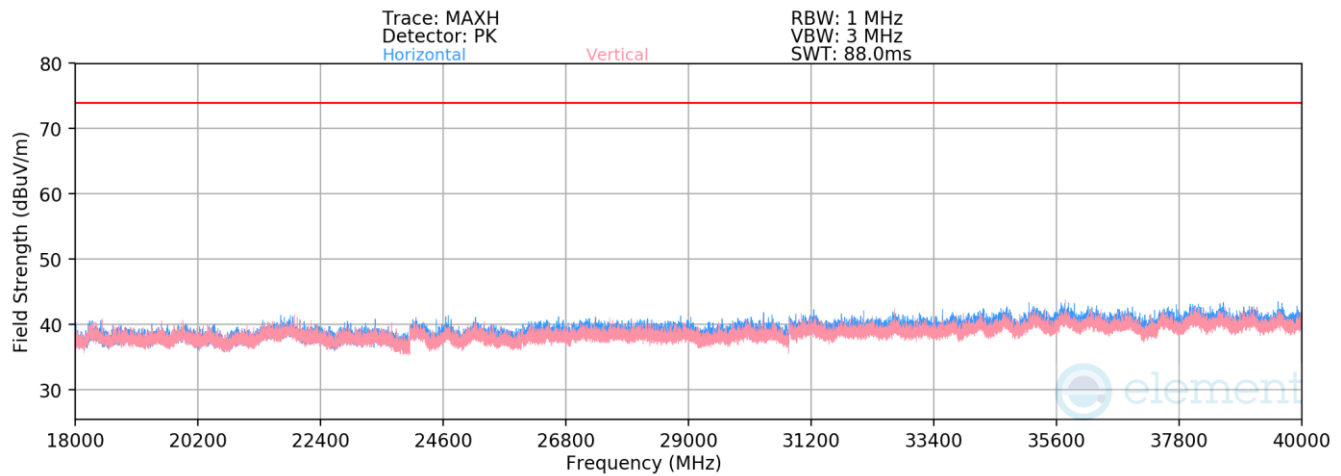
Table 7-46. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 159 of 191

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Plot 7-214. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA – 5789MHz)



Plot 7-215. Radiated Spurious Emissions 18-40GHz TxBF (NB UNII BDR ePA – 5789MHz)

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

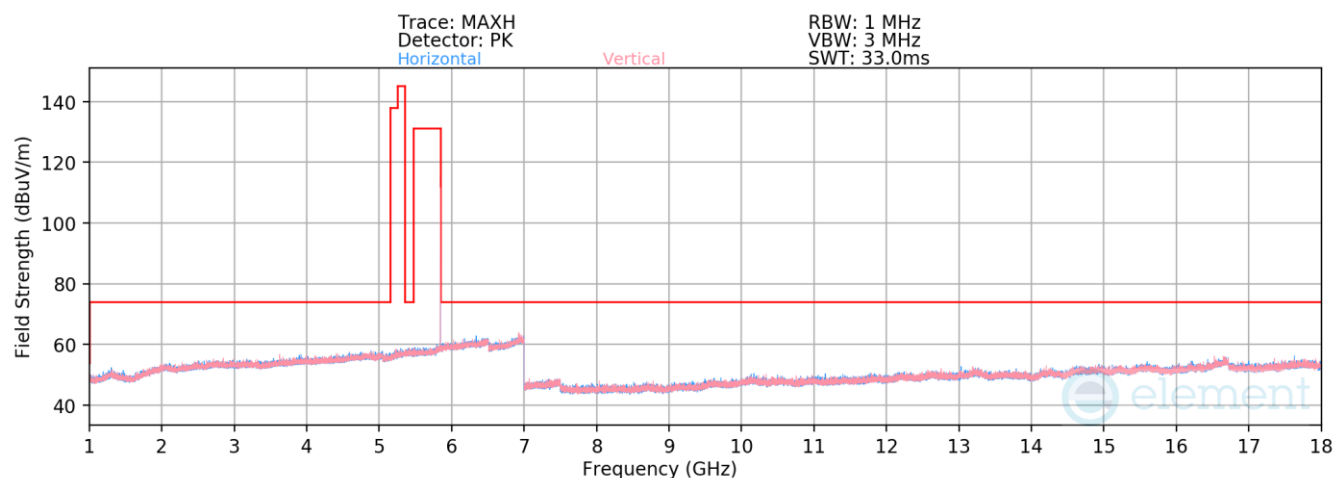
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11578.00	Avg	H	-	-	-77.95	9.67	38.72	53.98	-15.26
* 11578.00	Peak	H	-	-	-67.43	9.67	49.24	73.98	-24.74
17367.00	Peak	V	-	-	-70.20	18.04	54.84	68.23	-13.39

Table 7-47. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 160 of 191

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Plot 7-216. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA - 5844MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

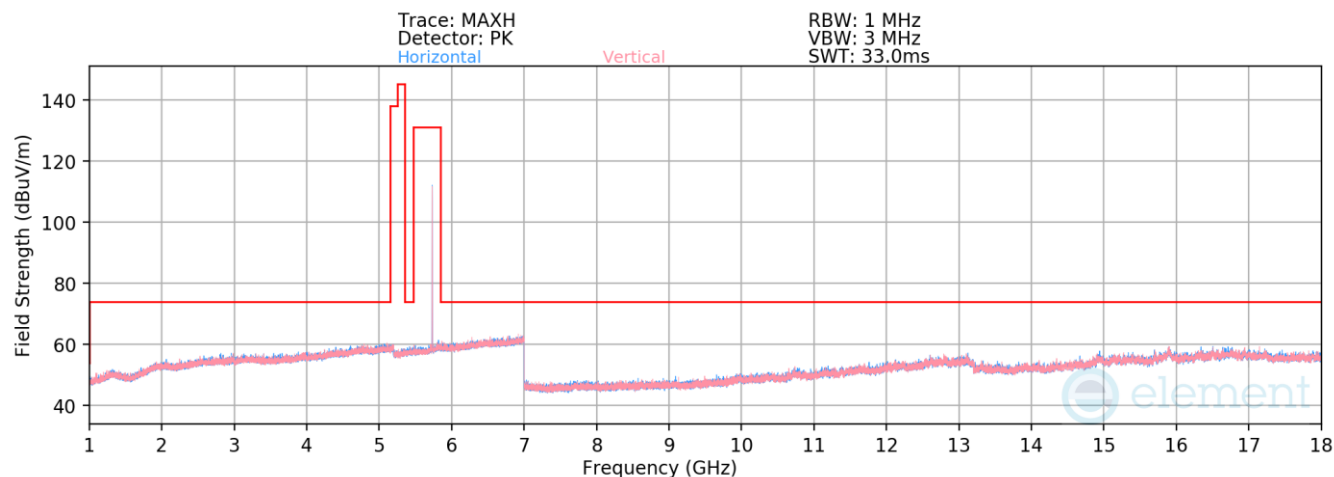
Operating Frequency: 5844MHz

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	Avg	H	-	-	-78.83	10.33	38.50	53.98	-15.48
* 11688.00	Peak	H	-	-	-67.35	10.33	49.98	73.98	-24.00
17532.00	Peak	V	-	-	-71.02	17.56	53.54	68.23	-14.69

Table 7-48. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 161 of 191

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Plot 7-217. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5733MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

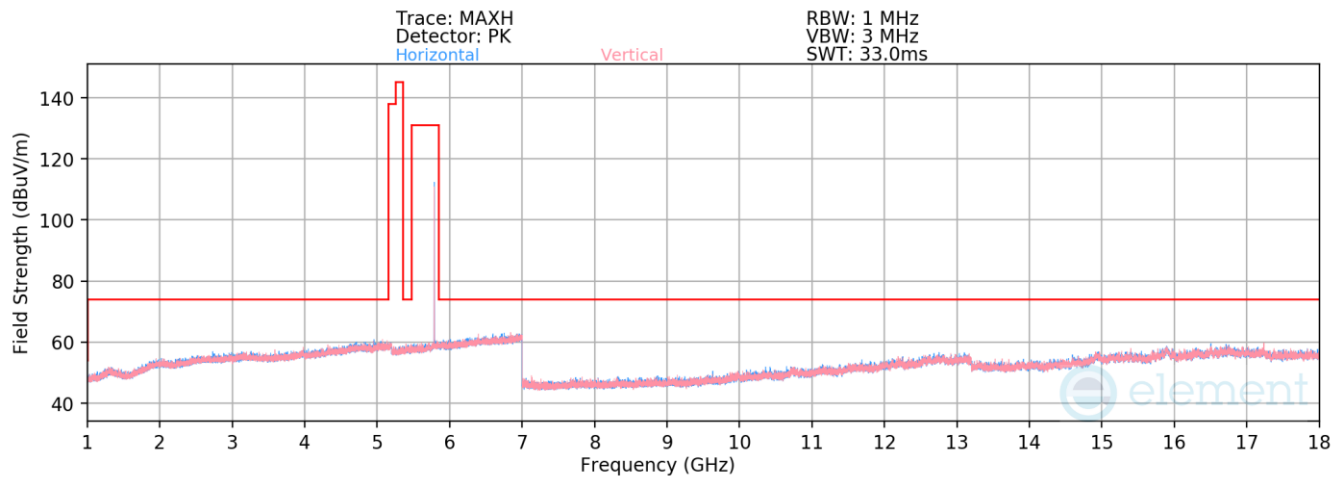
Operating Frequency: 5733MHz

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	Avg	H	-	-	-83.27	17.25	40.98	53.98	-13.00
* 11466.00	Peak	H	-	-	-72.19	17.25	52.06	73.98	-21.92
17199.00	Peak	H	-	-	-73.29	24.61	58.32	68.23	-9.91

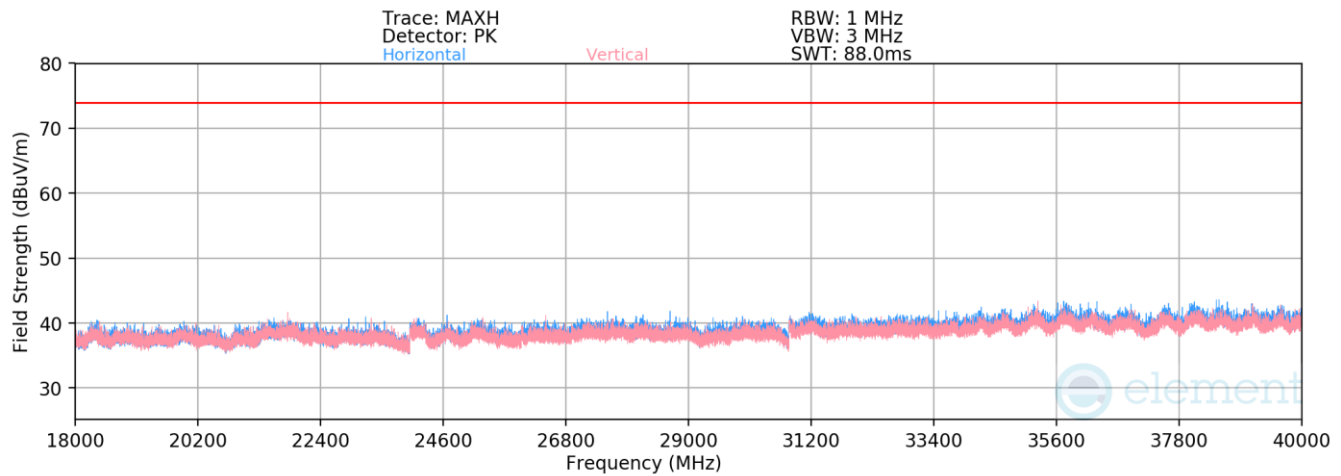
Table 7-49. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 162 of 191

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Plot 7-218. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5789MHz)



Plot 7-219. Radiated Spurious Emissions 18-40GHz TxBF (NB UNII HDR4 ePA – 5789MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

Operating Frequency: 5789MHz

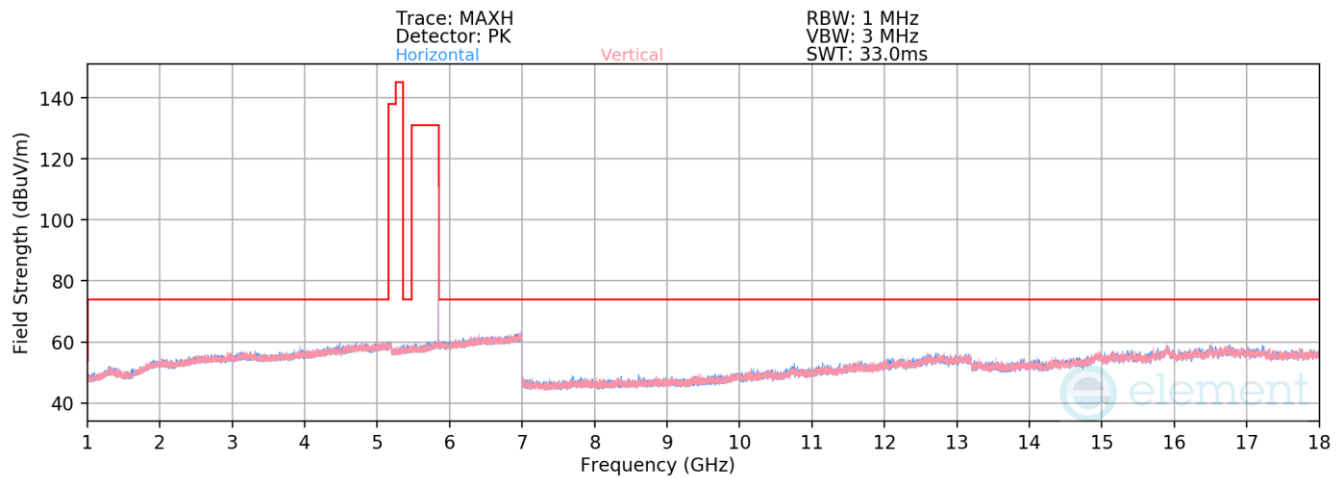
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11578.00	Avg	V	-	-	-83.12	17.13	41.01	53.98	-12.97
* 11578.00	Peak	V	-	-	-71.90	17.13	52.23	73.98	-21.75
17367.00	Peak	H	-	-	-73.64	24.57	57.93	68.23	-10.30

Table 7-50. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 163 of 191

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Plot 7-220. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5844MHz)

Mode: HDR4

Data Rate: 4Mbps

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	Avg	V	-	-	-83.71	17.92	41.21	53.98	-12.77
* 11688.00	Peak	V	-	-	-72.07	17.92	52.85	73.98	-21.13
17532.00	Peak	V	-	-	-72.02	24.88	59.86	68.23	-8.37

Table 7-51. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 164 of 191

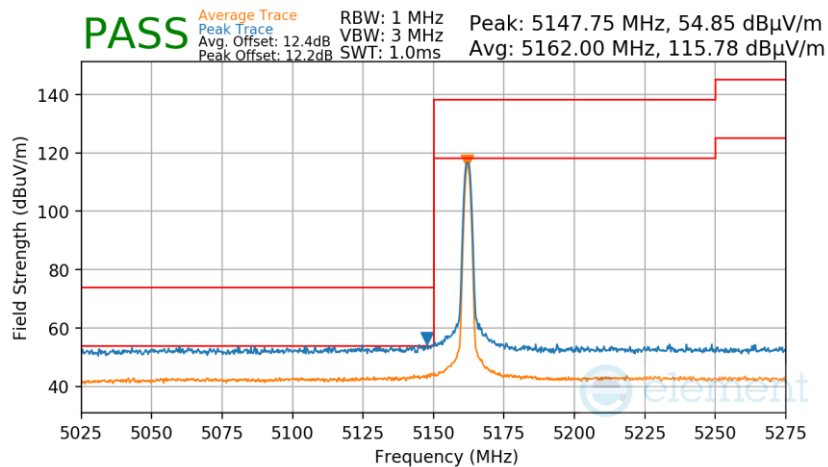
V 10.6 10/27/2023

7.6.4 Radiated Band Edge Measurements

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

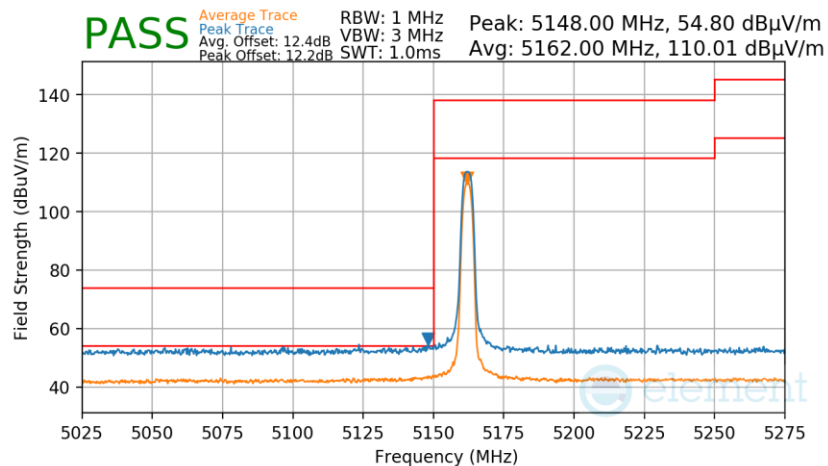
Antenna WF5T

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



Plot 7-221. Radiated Lower Band Edge Measurement Antenna WF5T

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz

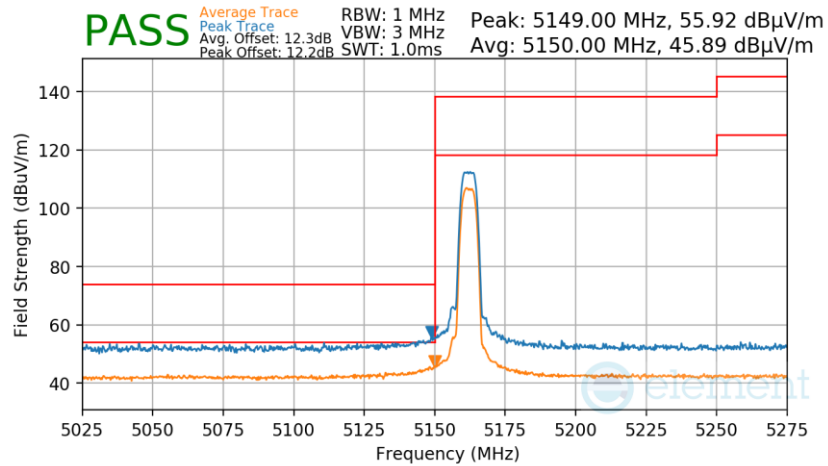


Plot 7-222. Radiated Lower Band Edge Measurement Antenna WF5T

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 165 of 191

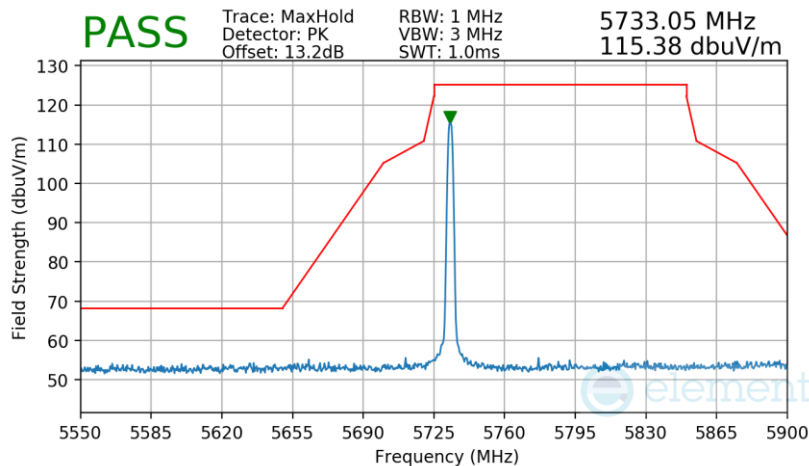
V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-223. Radiated Lower Band Edge Measurement Antenna WF5T

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

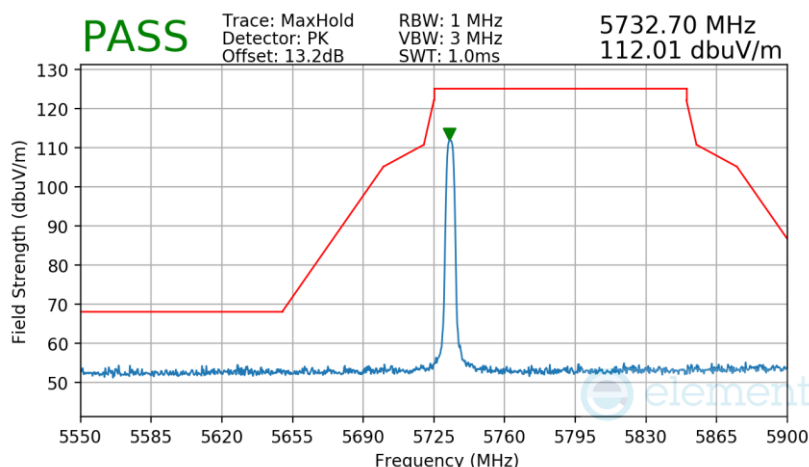


Plot 7-224. Radiated Lower Band Edge Measurement Antenna WF5T

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 166 of 191

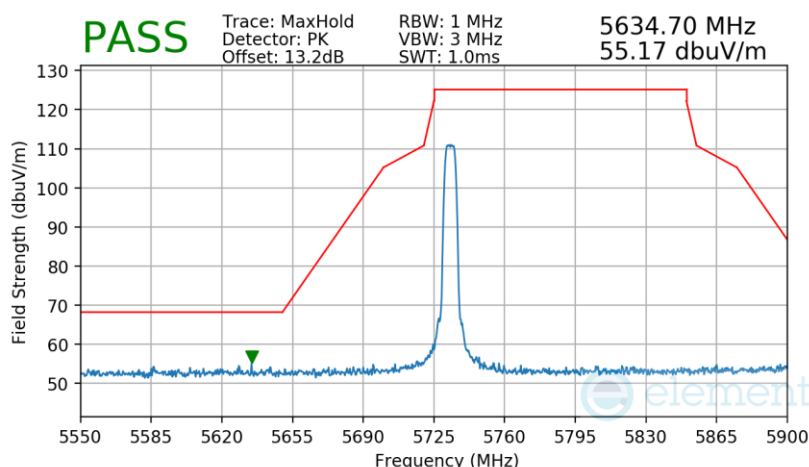
V 10.6 10/27/2023

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-225. Radiated Lower Band Edge Measurement Antenna WF5T

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

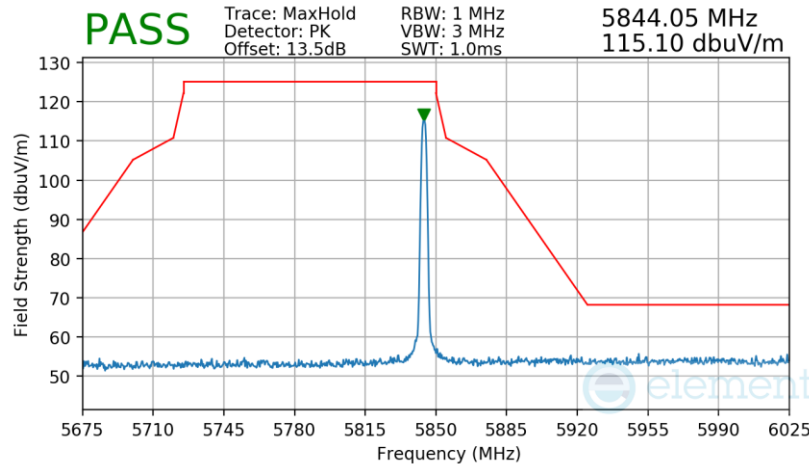


Plot 7-226. Radiated Lower Band Edge Measurement Antenna WF5T

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 167 of 191

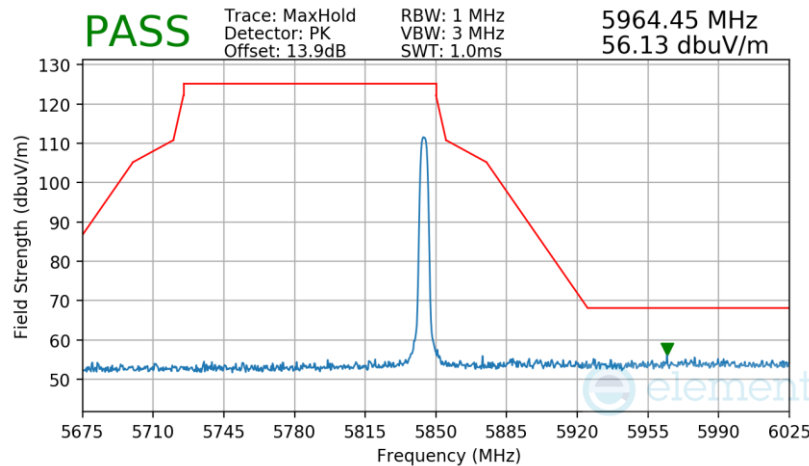
V 10.6 10/27/2023

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



Plot 7-227. Radiated Upper Band Edge Measurement Antenna WF5T

Mode: HDR4
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz

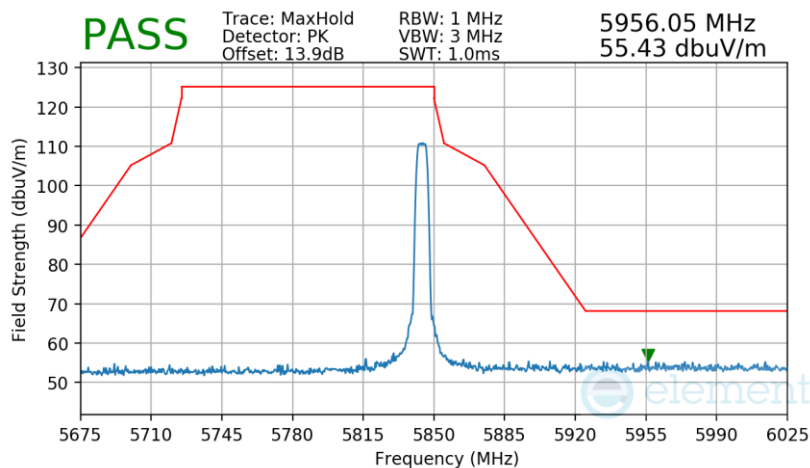


Plot 7-228. Radiated Upper Band Edge Measurement Antenna WF5T

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 168 of 191

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Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-229. Radiated Upper Band Edge Measurement Antenna WF5T

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 169 of 191

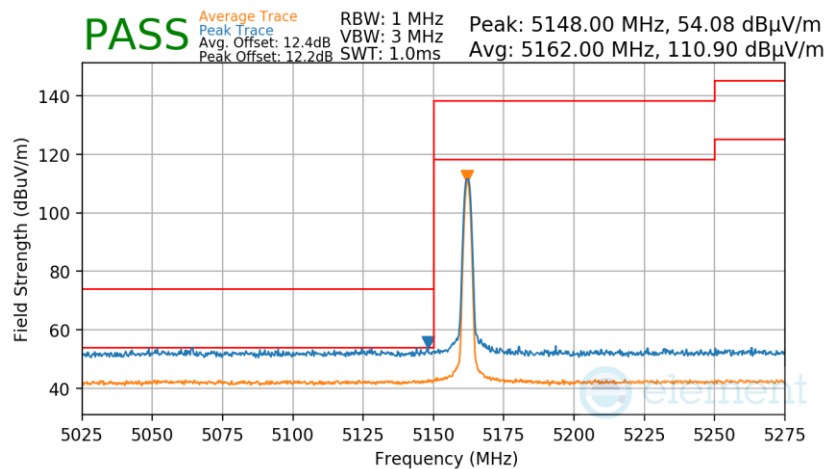
V 10.6 10/27/2023

Radiated Band Edge Measurements

§15.407(b.1)(b.2) §15.205 §15.209

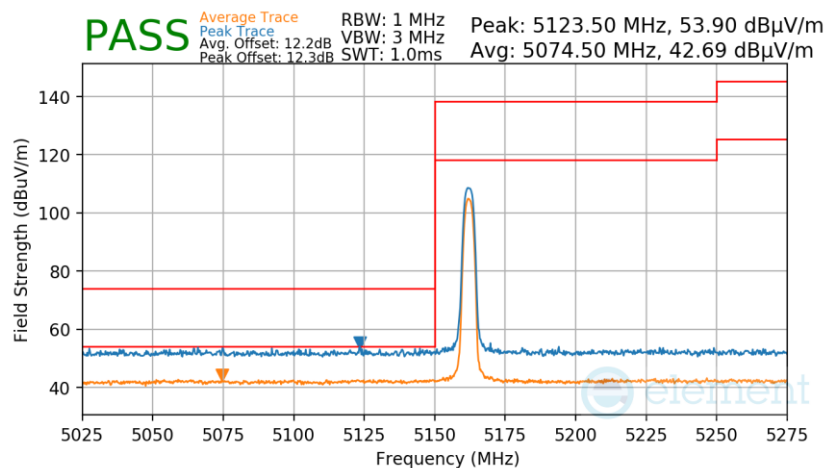
Antenna WF2

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



Plot 7-230. Radiated Lower Band Edge Measurement Antenna WF2

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz

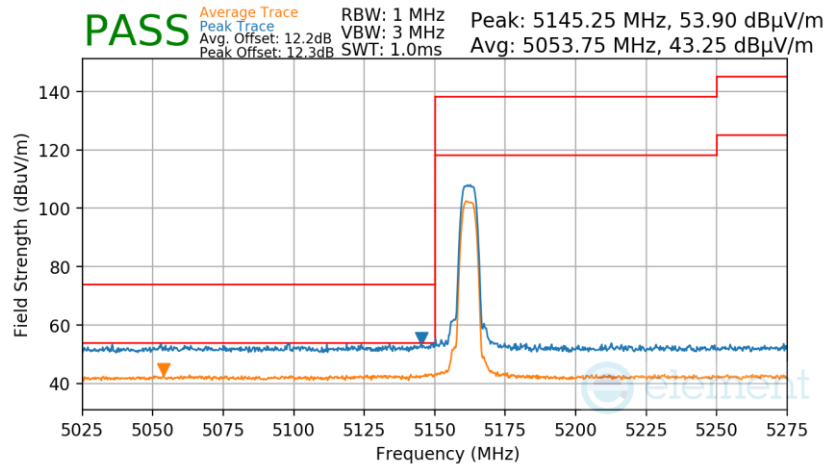


Plot 7-231. Radiated Lower Band Edge Measurement Antenna WF2

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 170 of 191

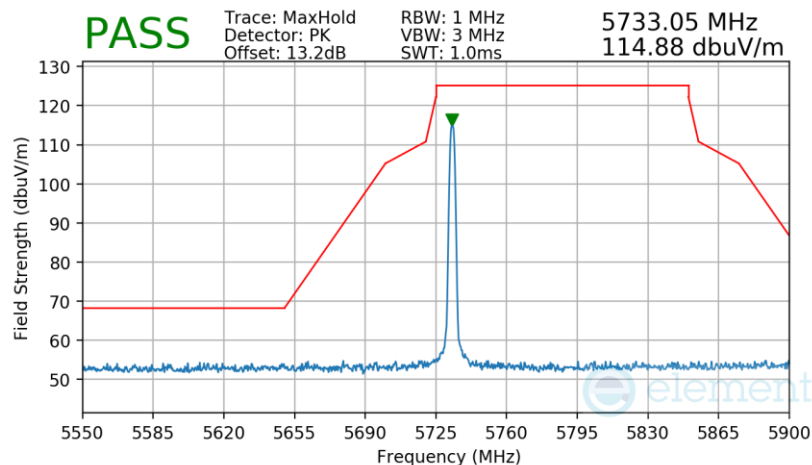
V 10.6 10/27/2023

Mode: HDR8
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5162MHz



Plot 7-232. Radiated Lower Band Edge Measurement Antenna WF2

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

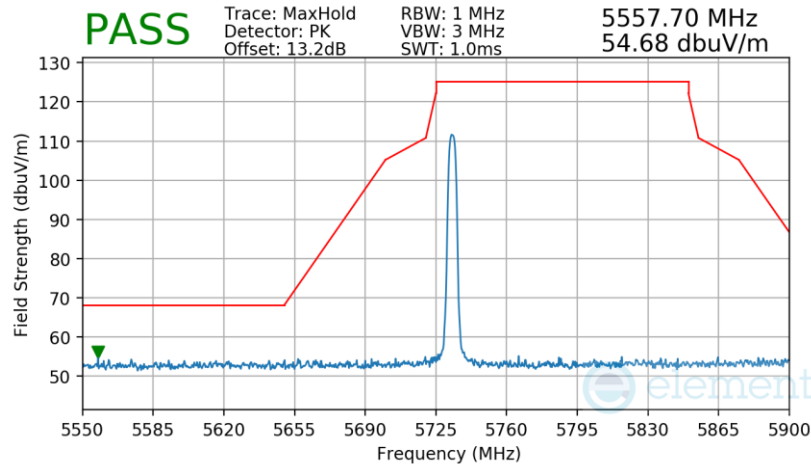


Plot 7-233. Radiated Lower Band Edge Measurement Antenna WF2

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 171 of 191

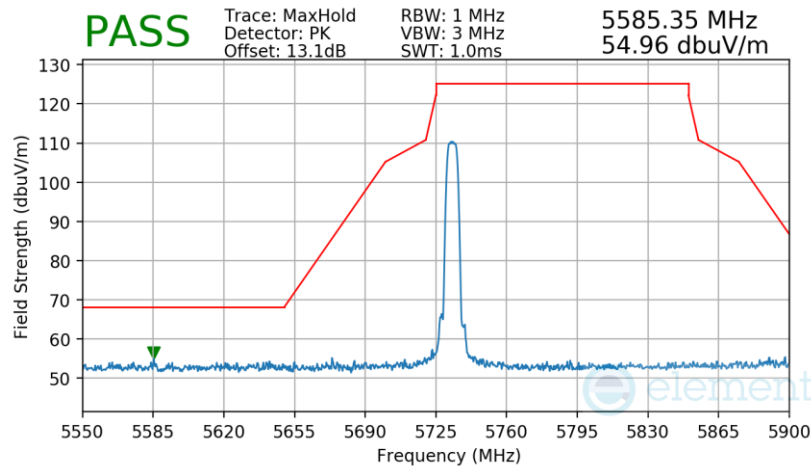
V 10.6 10/27/2023

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-234. Radiated Lower Band Edge Measurement Antenna WF2

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

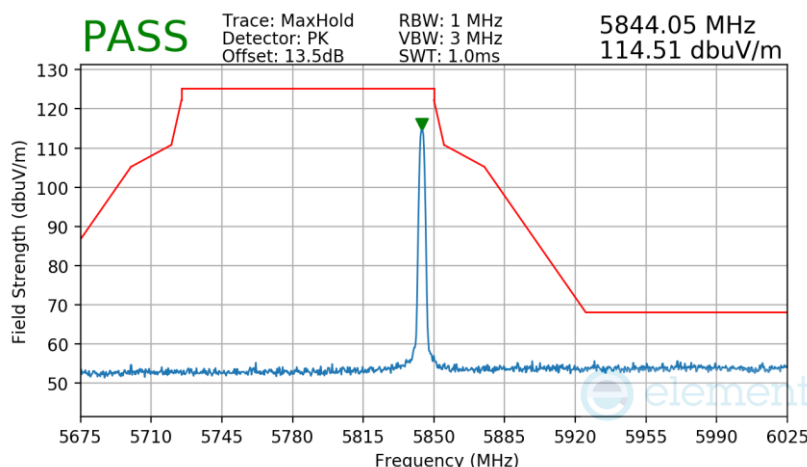


Plot 7-235. Radiated Lower Band Edge Measurement Antenna WF2

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 172 of 191

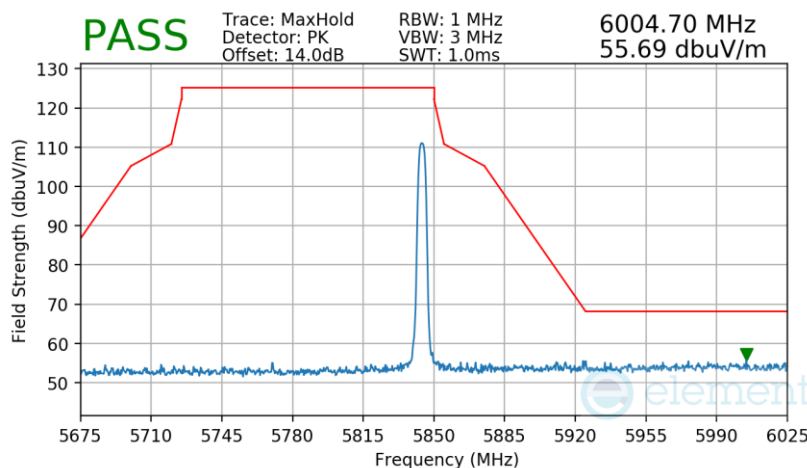
V 10.6 10/27/2023

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



Plot 7-236. Radiated Upper Band Edge Measurement Antenna WF2

Mode: HDR4
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz

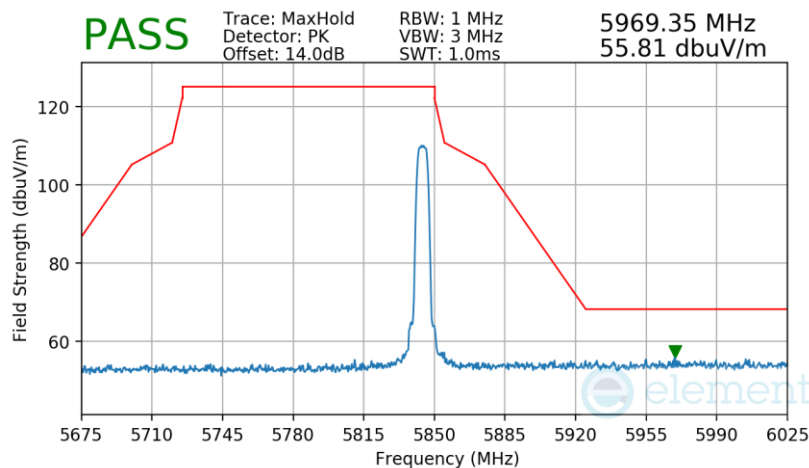


Plot 7-237. Radiated Upper Band Edge Measurement Antenna WF2

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 173 of 191

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Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-238. Radiated Upper Band Edge Measurement Antenna WF2

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 174 of 191

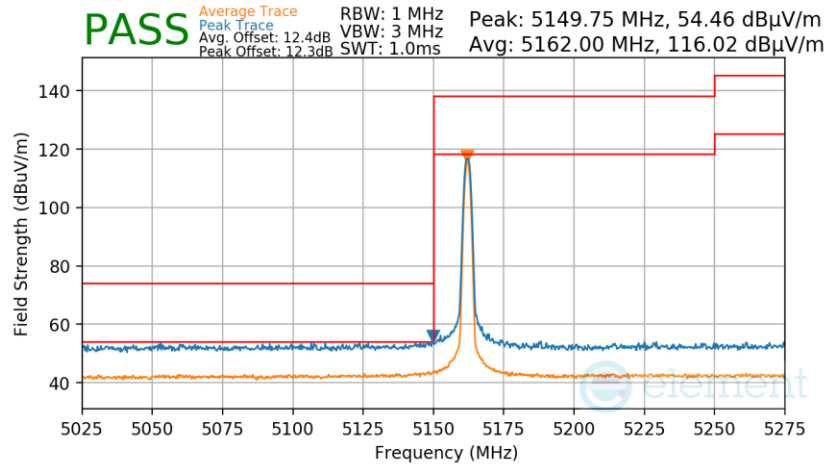
V 10.6 10/27/2023

Radiated Band Edge Measurements

§15.407(b.1)(b.2) §15.205 §15.209

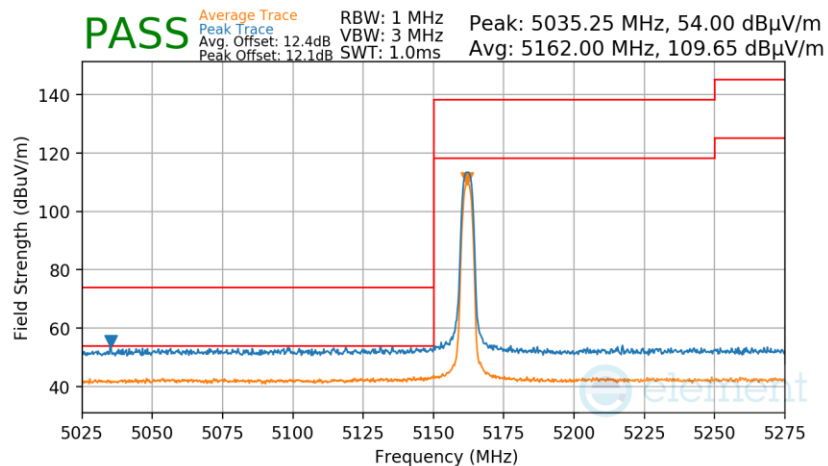
TxBF

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



Plot 7-239. Radiated Lower Band Edge Measurement Antenna TxBF

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz

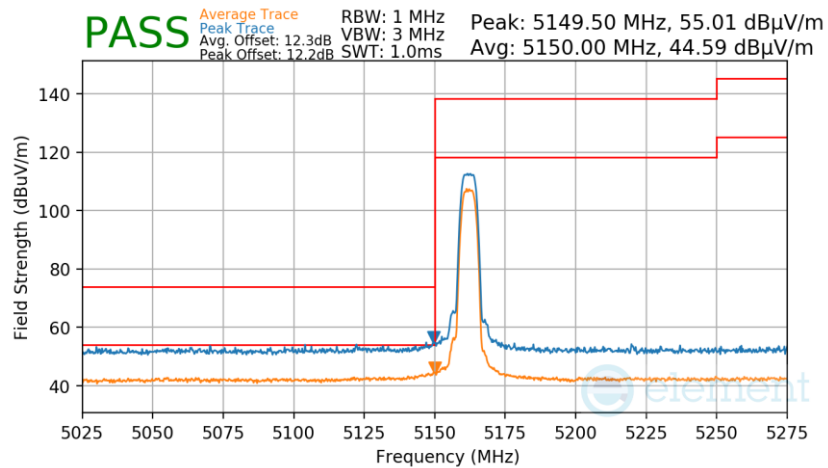


Plot 7-240. Radiated Lower Band Edge Measurement Antenna TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 175 of 191

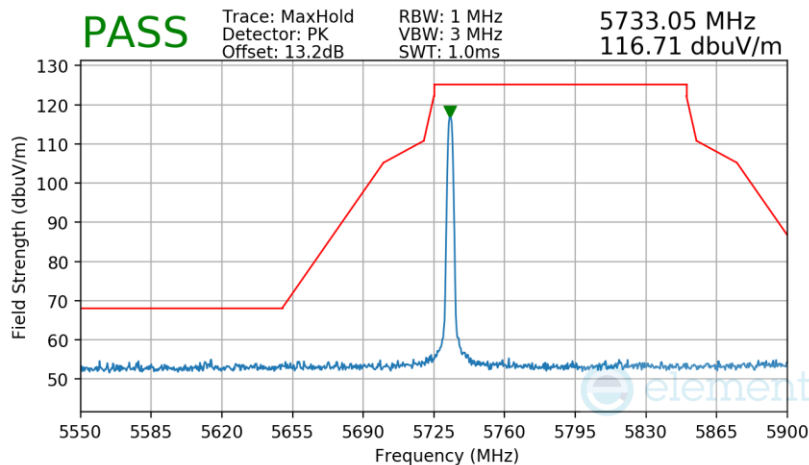
V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-241. Radiated Lower Band Edge Measurement Antenna TxBF

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

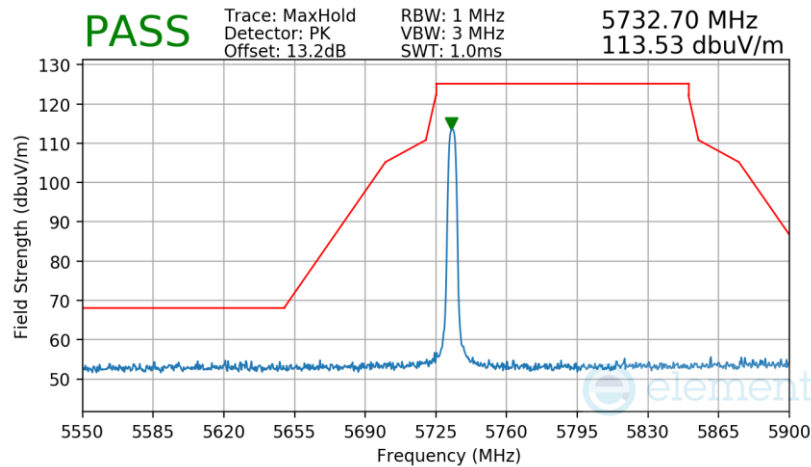


Plot 7-242. Radiated Lower Band Edge Measurement Antenna TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 176 of 191

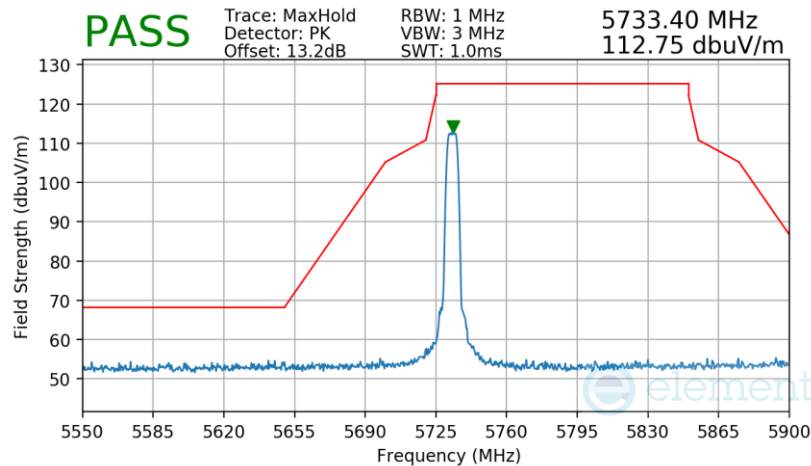
V 10.6 10/27/2023

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-243. Radiated Lower Band Edge Measurement Antenna TxBF

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



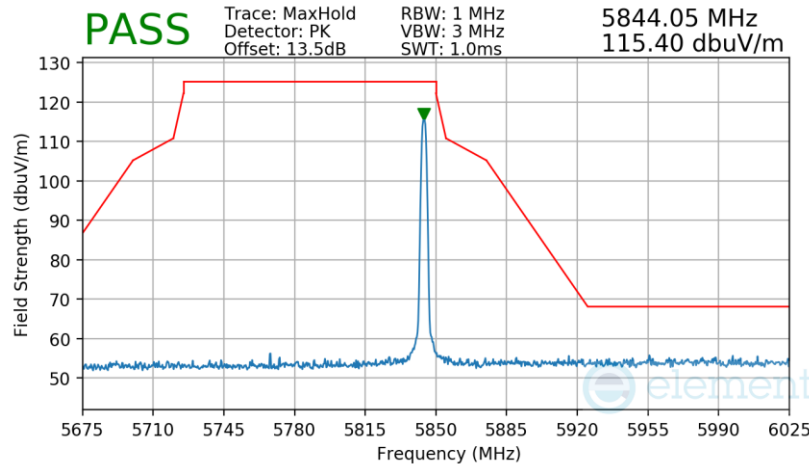
Plot 7-244. Radiated Lower Band Edge Measurement Antenna TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 177 of 191

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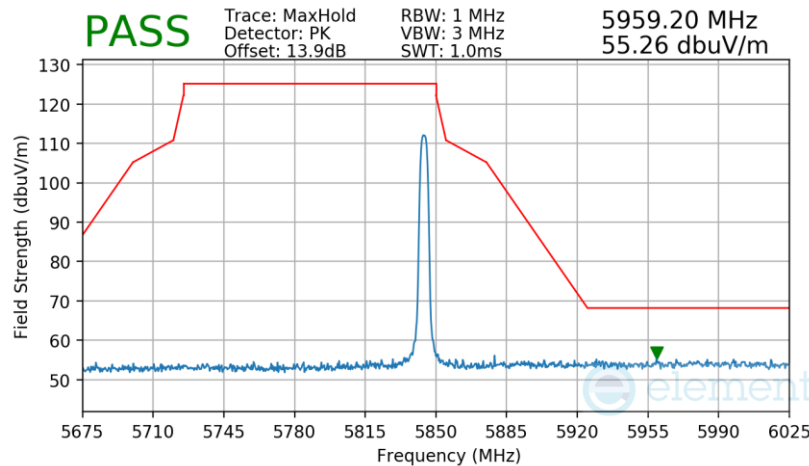
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Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-245. Radiated Upper Band Edge Measurement Antenna TxBF

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz

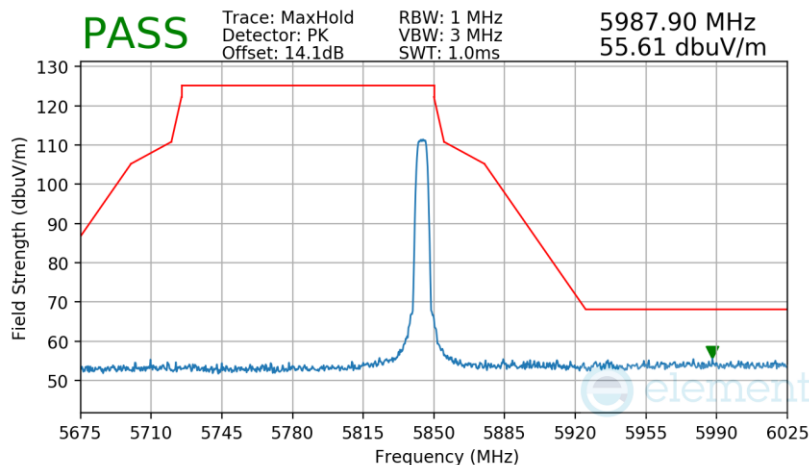


Plot 7-246. Radiated Upper Band Edge Measurement Antenna TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 178 of 191

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Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-247. Radiated Upper Band Edge Measurement Antenna TxBF

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-08-R1.BCG	Test Dates: 5/20/2024 - 7/26/2024	EUT Type: Tablet Device	Page 179 of 191

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7.6 Radiated Spurious Emissions – Below 1GHz

§15.209

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 must not exceed the limits shown in Table 7-52 per Section 15.209.

Frequency	Field Strength [μV/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 7-52. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

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.

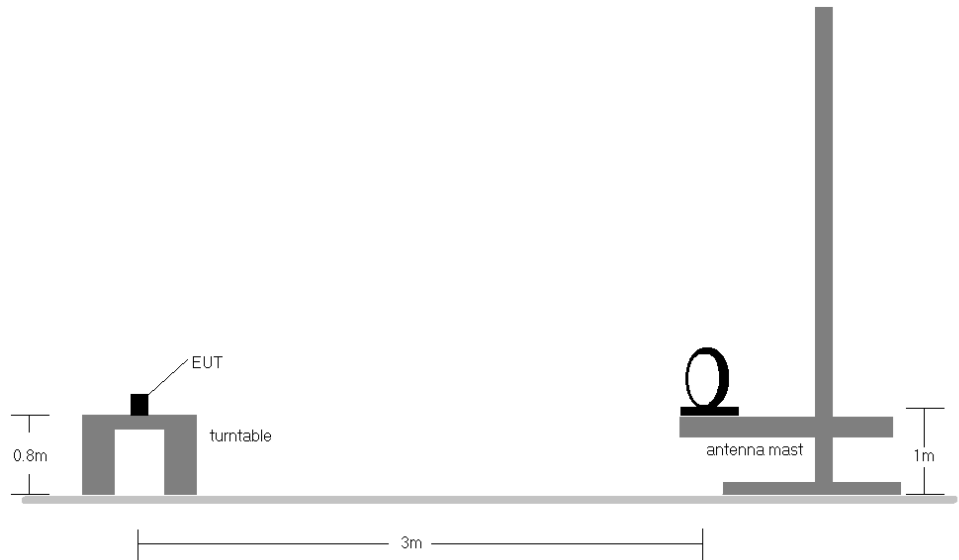


Figure 7-6. Radiated Test Setup < 30MHz

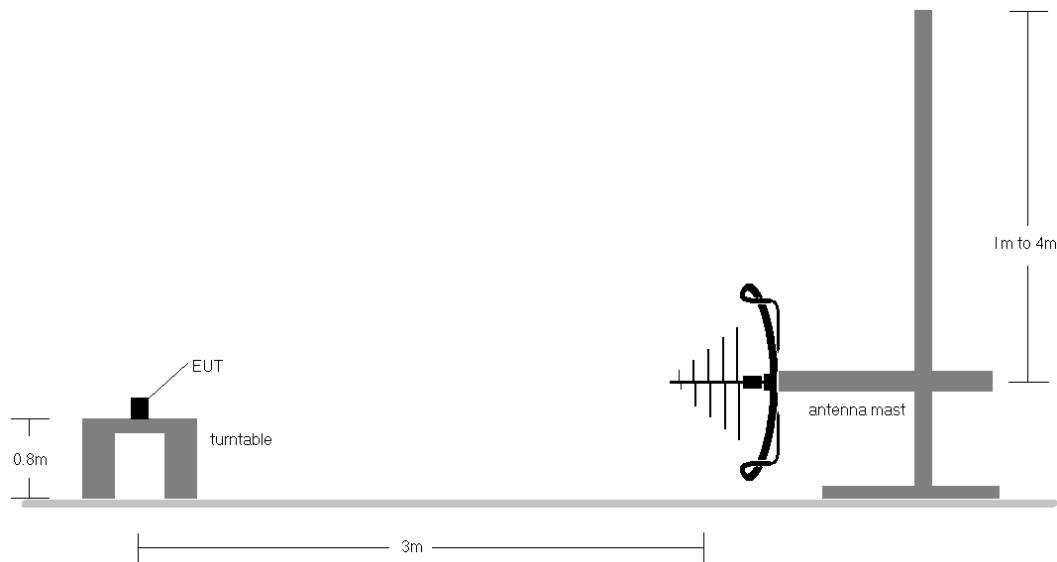


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-52.
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 $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

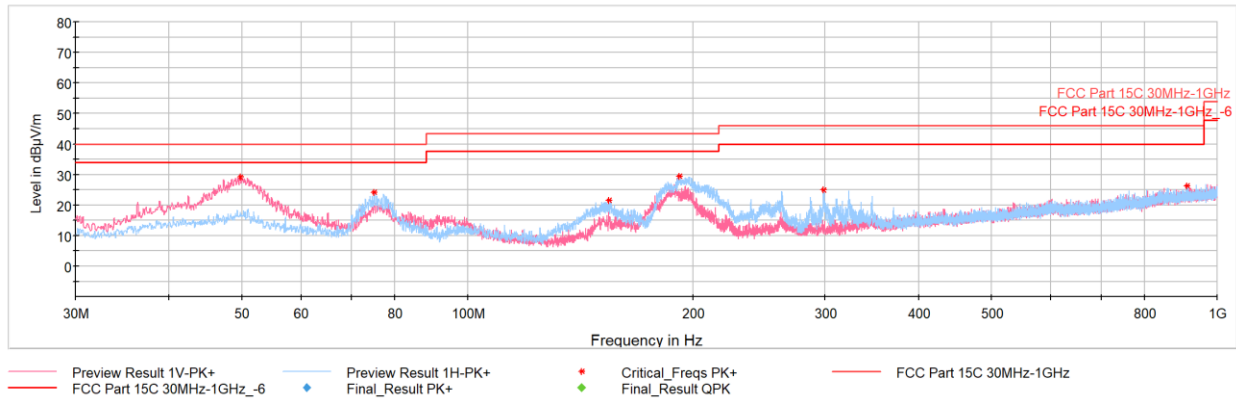
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Radiated Spurious Emissions (Below 1GHz)

§15.209

TxBF



Plot 7-248. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII BDR ePA – 5204MHz), with AC/DC adaptor to USB-C cable with wire charger

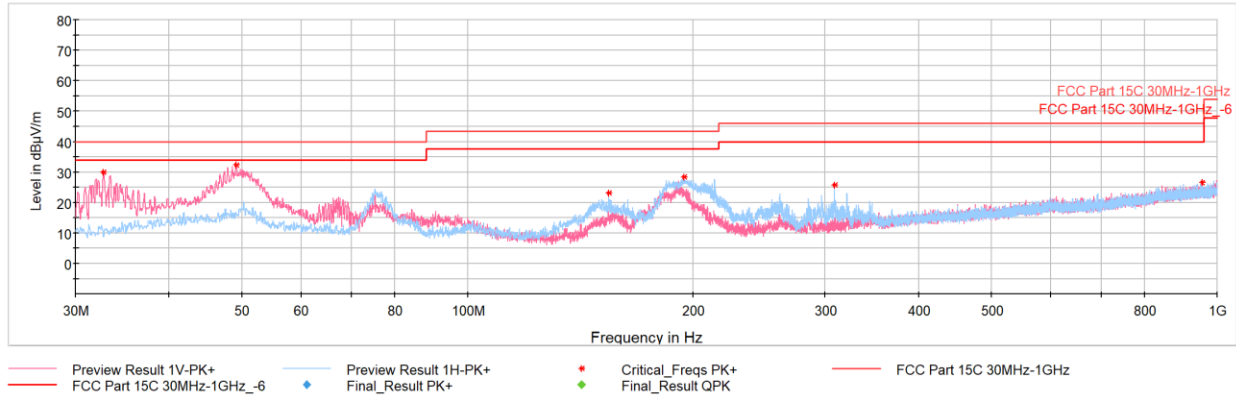
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
49.74	Max Peak	V	100	64	-65.12	-12.80	29.08	40.00	-10.92
75.15	Max Peak	H	200	101	-62.33	-20.35	24.32	40.00	-15.68
154.26	Max Peak	H	200	175	-66.11	-19.33	21.56	43.52	-21.96
191.36	Max Peak	H	200	334	-60.88	-16.74	29.38	43.52	-14.14
298.50	Max Peak	H	100	264	-68.02	-13.97	25.01	46.02	-21.01
911.05	Max Peak	H	100	358	-78.75	-1.95	26.30	46.02	-19.72

Table 7-53. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII BDR ePA – 5204MHz), with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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]
32.72	Max Peak	V	100	150	-61.24	-15.87	29.89	40.00	-10.11
49.16	Max Peak	V	100	272	-61.68	-12.84	32.48	40.00	-7.52
154.26	Max Peak	H	200	161	-64.59	-19.33	23.08	43.52	-20.44
194.56	Max Peak	H	100	175	-62.33	-16.19	28.48	43.52	-15.04
308.58	Max Peak	H	100	245	-67.51	-13.64	25.85	46.02	-20.17
954.85	Max Peak	H	100	340	-78.64	-1.74	26.62	46.02	-19.40

Table 7-54. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII HDR4 ePA – 5204MHz), with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7 AC Line Conducted Emissions Measurement

§15.207

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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-55. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, 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.

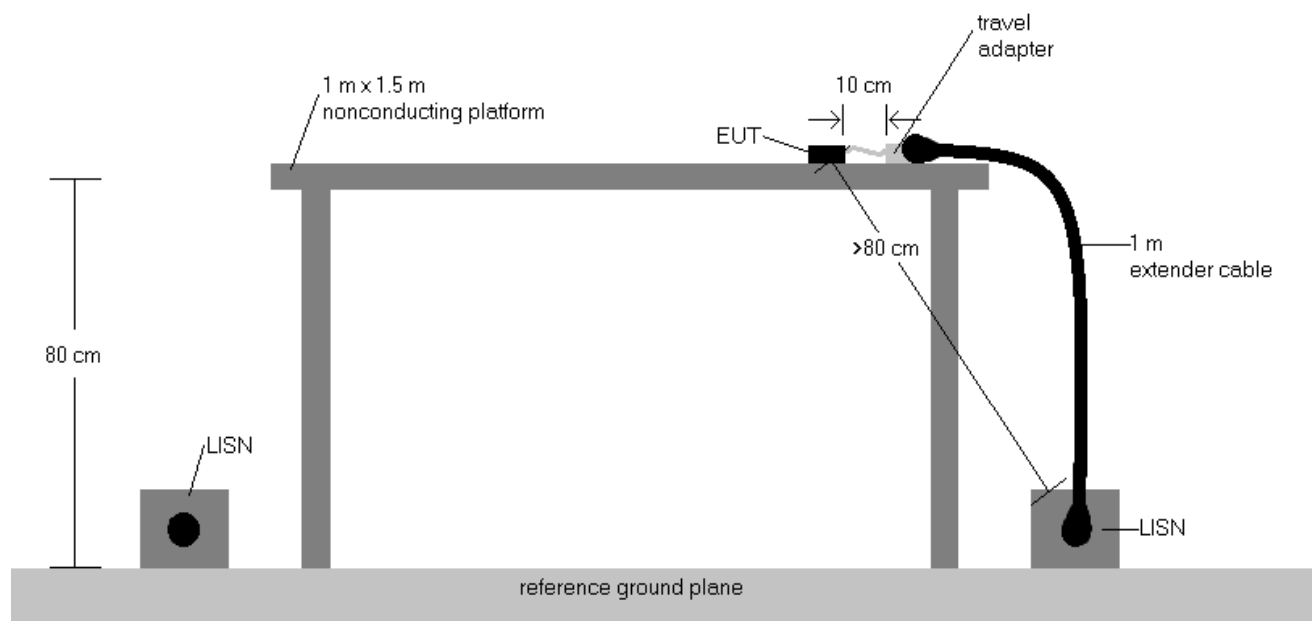


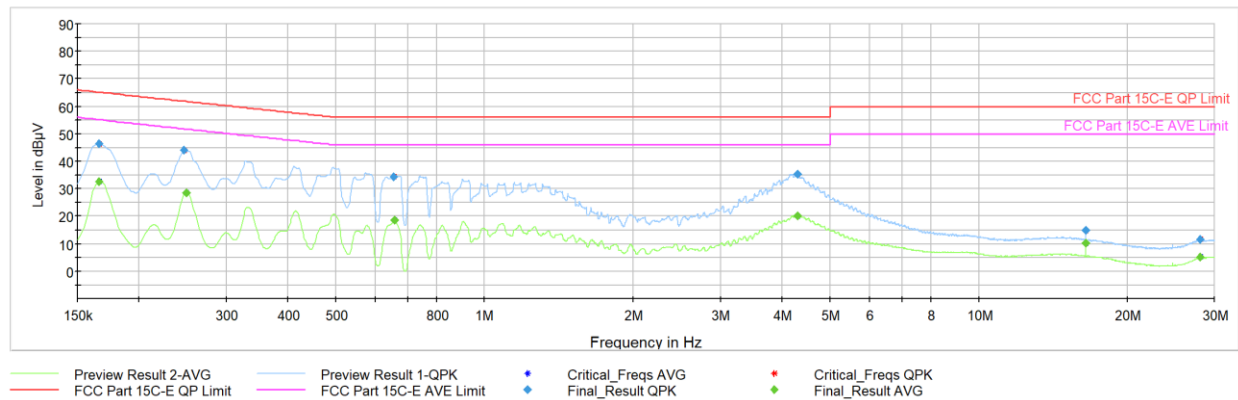
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 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.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adaptor to USB-C cable with wire charger
 - EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plots are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.

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Plot 7-250. AC Line Conducted Plot TxBF (NB UNII BDR ePA – 5204MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

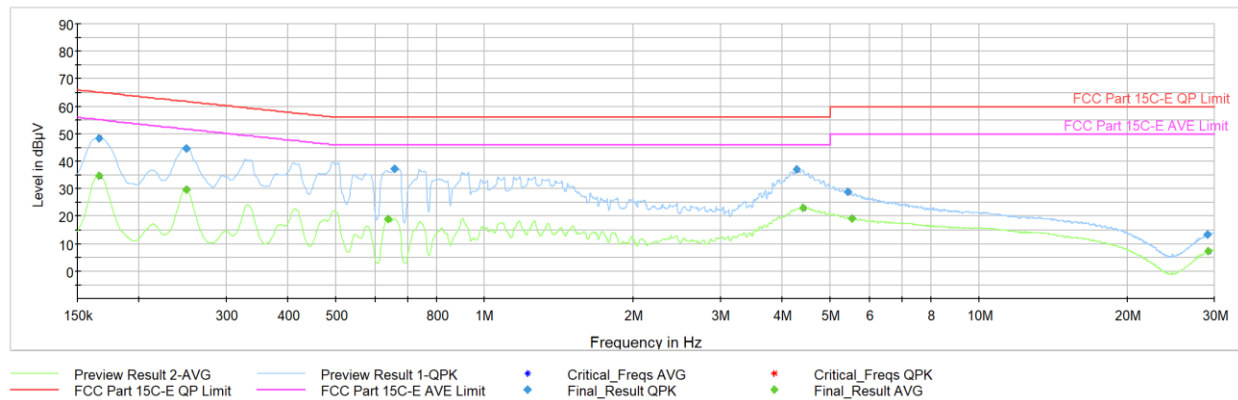
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	32.76	55.17	-22.41	L1	GND
0.166	FINAL	46.3	—	65.17	-18.86	L1	GND
0.247	FINAL	44.2	—	61.87	-17.72	L1	GND
0.249	FINAL	—	28.64	51.79	-23.15	L1	GND
0.654	FINAL	34.3	—	56.00	-21.67	L1	GND
0.656	FINAL	—	18.73	46.00	-27.27	L1	GND
4.295	FINAL	35.4	—	56.00	-20.56	L1	GND
4.297	FINAL	—	20.02	46.00	-25.98	L1	GND
16.463	FINAL	14.9	—	60.00	-45.08	L1	GND
16.463	FINAL	—	10.13	50.00	-39.87	L1	GND
28.032	FINAL	—	5.28	50.00	-44.72	L1	GND
28.034	FINAL	11.7	—	60.00	-48.31	L1	GND

Table 7-56. AC Line Conducted Data TxBF (NB UNII BDR ePA – 5204MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

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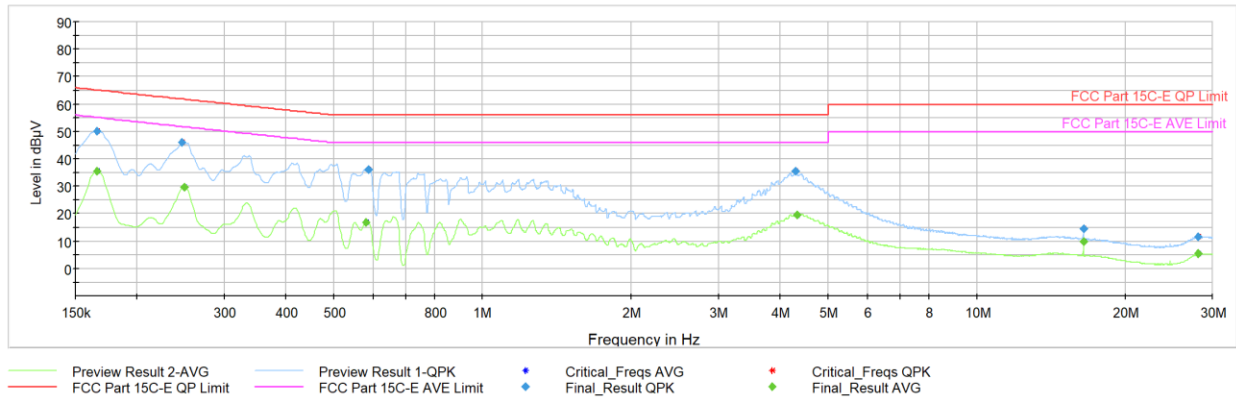


Plot 7-251. AC Line Conducted Plot TxBF (NB UNII BDR ePA – 5204MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	34.88	55.17	-20.29	N	GND
0.166	FINAL	48.6	—	65.17	-16.62	N	GND
0.249	FINAL	—	29.75	51.79	-22.04	N	GND
0.249	FINAL	44.7	—	61.79	-17.06	N	GND
0.638	FINAL	—	19.01	46.00	-26.99	N	GND
0.656	FINAL	37.5	—	56.00	-18.55	N	GND
4.283	FINAL	37.1	—	56.00	-18.90	N	GND
4.405	FINAL	—	23.08	46.00	-22.92	N	GND
5.424	FINAL	29.0	—	60.00	-31.04	N	GND
5.525	FINAL	—	19.16	50.00	-30.84	N	GND
29.047	FINAL	13.3	—	60.00	-46.69	N	GND
29.171	FINAL	—	7.12	50.00	-42.88	N	GND

Table 7-57. AC Line Conducted TxBF (NB UNII BDR ePA – 5204MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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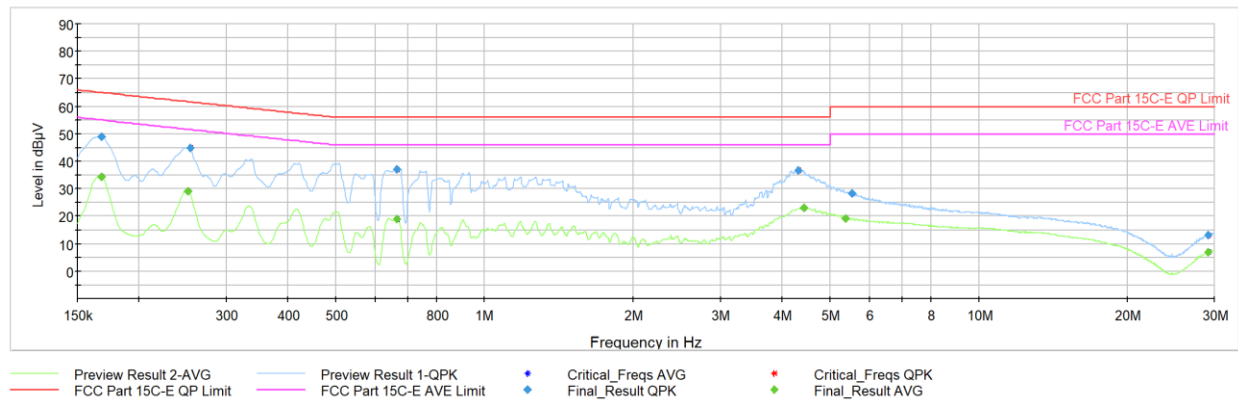
Plot 7-252. AC Line Conducted Plot TxBF (NB UNII HDR4 ePA – 5204MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	35.59	55.17	-19.58	L1	GND
0.166	FINAL	50.1	—	65.17	-15.03	L1	GND
0.247	FINAL	46.1	—	61.87	-15.81	L1	GND
0.249	FINAL	—	29.80	51.79	-21.99	L1	GND
0.582	FINAL	—	16.84	46.00	-29.16	L1	GND
0.589	FINAL	36.1	—	56.00	-19.90	L1	GND
4.295	FINAL	35.5	—	56.00	-20.51	L1	GND
4.324	FINAL	—	19.49	46.00	-26.51	L1	GND
16.427	FINAL	14.5	—	60.00	-45.53	L1	GND
16.427	FINAL	—	9.97	50.00	-40.03	L1	GND
28.025	FINAL	11.7	—	60.00	-48.29	L1	GND
28.028	FINAL	—	5.56	50.00	-44.44	L1	GND

Table 7-58. AC Line Conducted Data TxBF (NB UNII HDR4 ePA – 5204MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-253. AC Line Conducted Plot TxBF (NB UNII HDR4 ePA – 5204MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	34.57	55.06	-20.48	N	GND
0.168	FINAL	49.1	—	65.06	-16.00	N	GND
0.251	FINAL	—	29.28	51.72	-22.44	N	GND
0.254	FINAL	45.0	—	61.64	-16.63	N	GND
0.665	FINAL	—	18.90	46.00	-27.10	N	GND
0.665	FINAL	37.1	—	56.00	-18.86	N	GND
4.315	FINAL	36.8	—	56.00	-19.22	N	GND
4.421	FINAL	—	23.07	46.00	-22.93	N	GND
5.377	FINAL	—	19.23	50.00	-30.77	N	GND
5.537	FINAL	28.3	—	60.00	-31.69	N	GND
29.171	FINAL	—	6.90	50.00	-43.10	N	GND
29.171	FINAL	13.2	—	60.00	-46.85	N	GND

Table 7-59. AC Line Conducted TxBF (NB UNII HDR4 ePA – 5204MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

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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: BCGA2993** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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