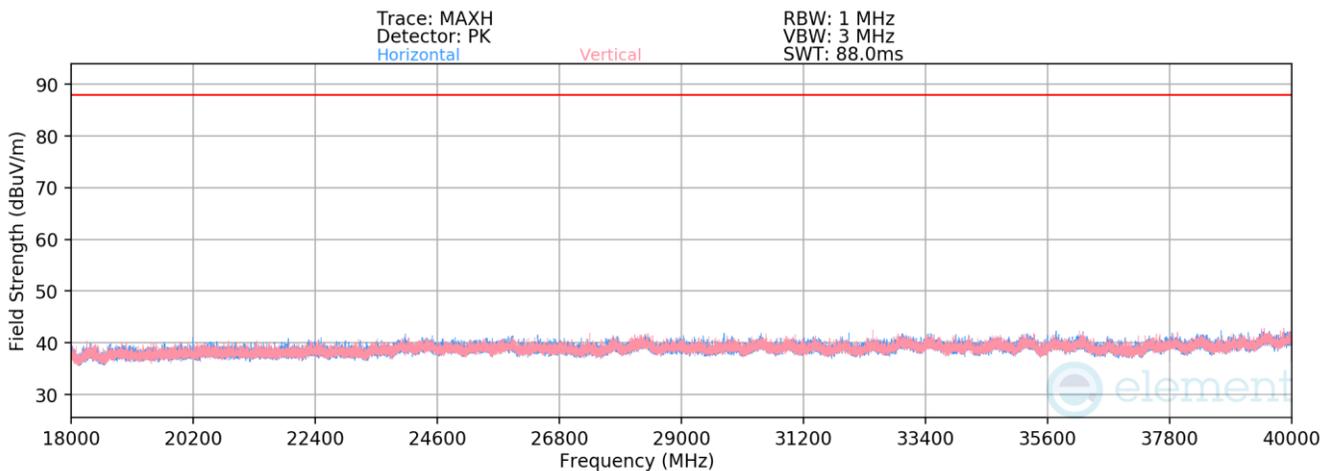


Plot 7-171. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 181)



Plot 7-172. Radiated Spurious Emissions 18-40GHz SDM Primary (802.11ax – Ch. 181)

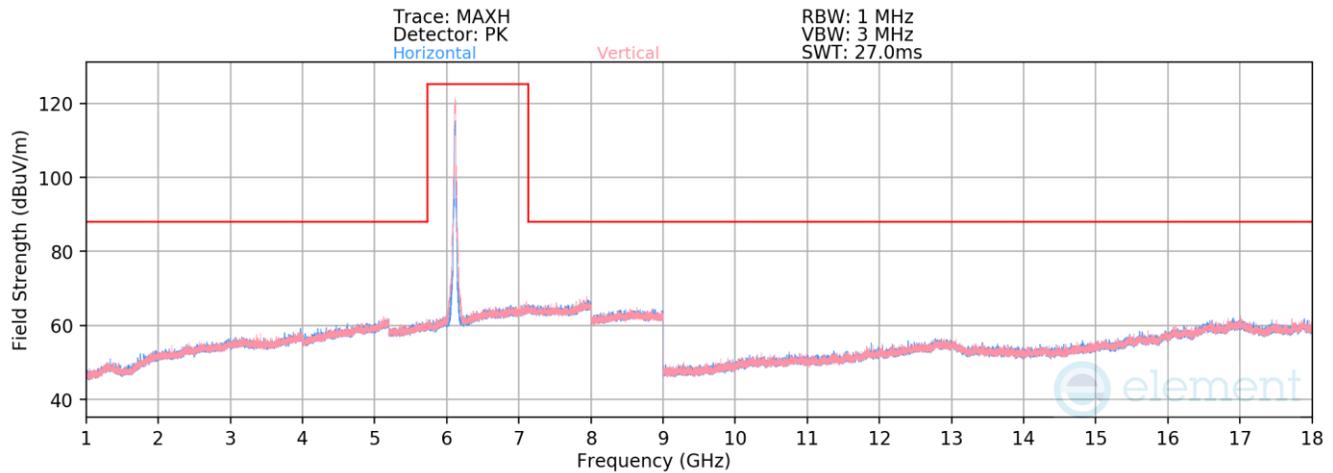
Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6855MHz
 Channel: 181

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]
13710.00	Average	H	-	-	-85.74	21.75	43.01	68.23	-25.22
13710.00	Peak	H	-	-	-74.74	21.73	53.99	88.23	-34.24

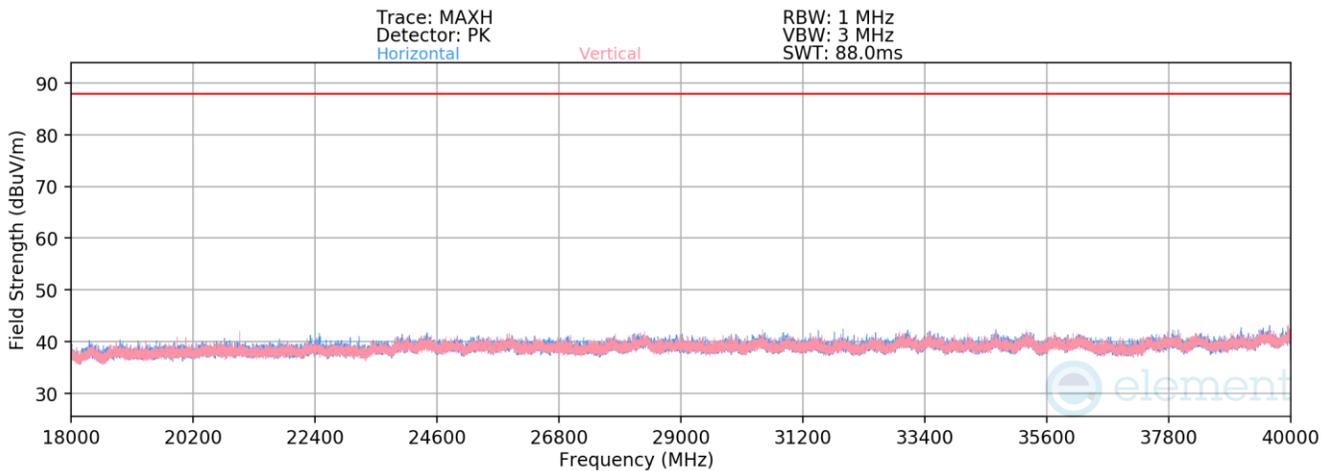
Table 7-46. Radiated Spurious Emission Measurements SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 96 of 134

7.8.2 SDM Diversity Radiated Spurious Emission



Plot 7-173. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 33)



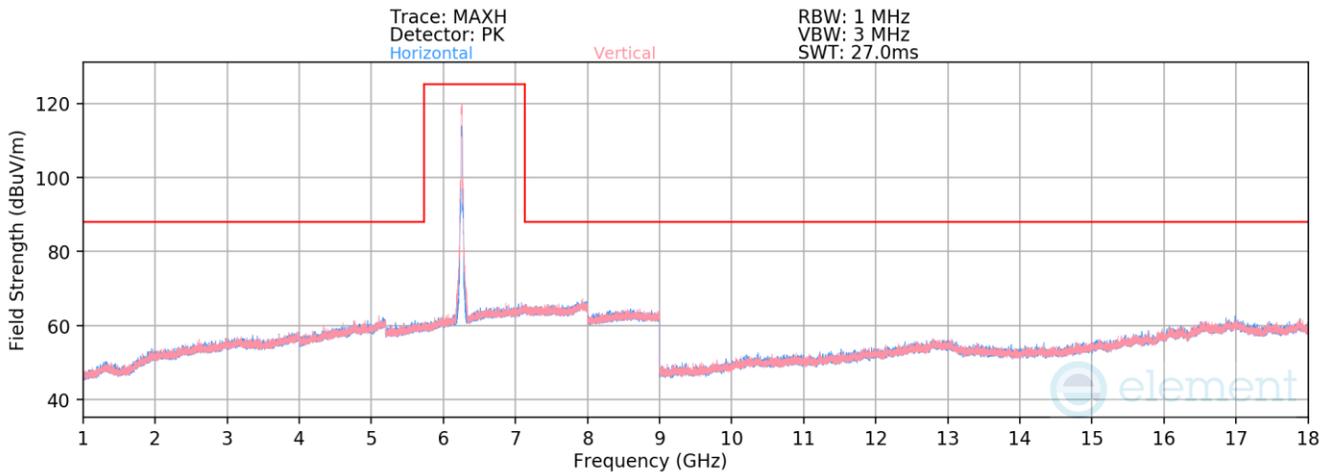
Plot 7-174. Radiated Spurious Emissions 18-40GHz SDM Diversity (802.11ax – Ch. 33)

Mode:	<u>802.11ax</u>
Data Rate:	<u>MCS0</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>6115MHz</u>
Channel:	<u>33</u>

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]
* 12230.00	Average	V	-	-	-85.10	20.77	42.68	53.98	-11.30
* 12230.00	Peak	V	-	-	-73.99	20.77	53.79	73.98	-20.19

Table 7-47. Radiated Spurious Emission Measurements SDM Diversity

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: IC2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 97 of 134



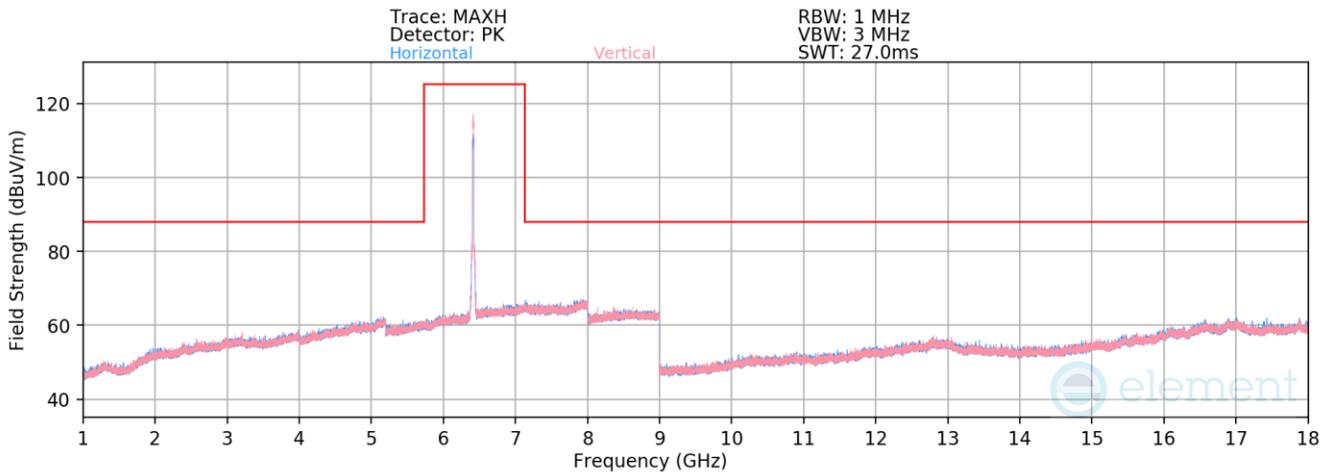
Plot 7-175. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 61)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6255MHz
 Channel: 61

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]
* 12510.00	Average	H	-	-	-85.16	21.26	43.10	53.98	-10.88
* 12510.00	Peak	H	-	-	-73.66	21.30	54.64	73.98	-19.34

Table 7-48. Radiated Spurious Emission Measurements SDM Diversity

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 98 of 134



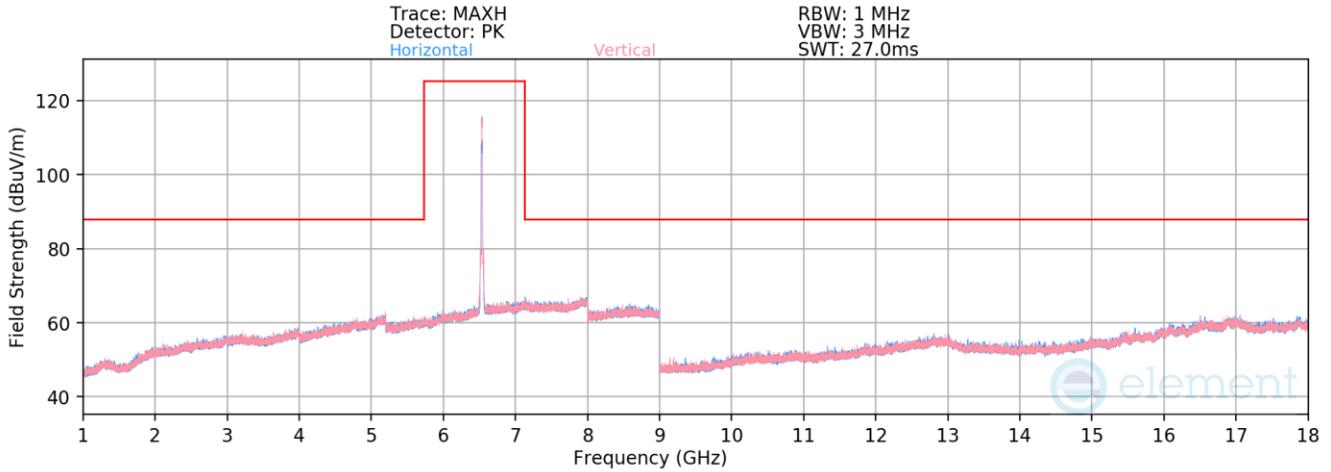
Plot 7-176. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 93)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6415MHz
 Channel: 93

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]
12830.00	Average	H	-	-	-84.79	21.66	43.87	68.23	-24.36
12830.00	Peak	H	-	-	-73.71	21.66	54.95	88.23	-33.28

Table 7-49. Radiated Spurious Emission Measurements SDM Diversity

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 99 of 134



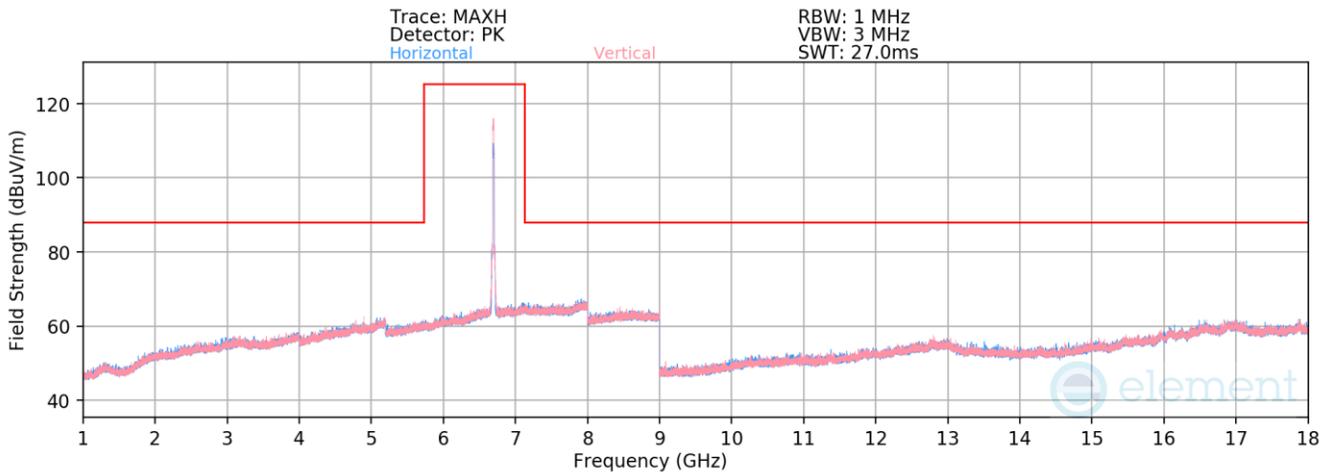
Plot 7-177. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 117)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6535MHz
 Channel: 117

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]
13070.00	Average	V	-	-	-85.41	22.36	43.95	68.23	-24.28
13070.00	Peak	V	-	-	-74.12	22.36	55.24	88.23	-32.99

Table 7-50. Radiated Spurious Emission Measurements SDM Diversity

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 100 of 134



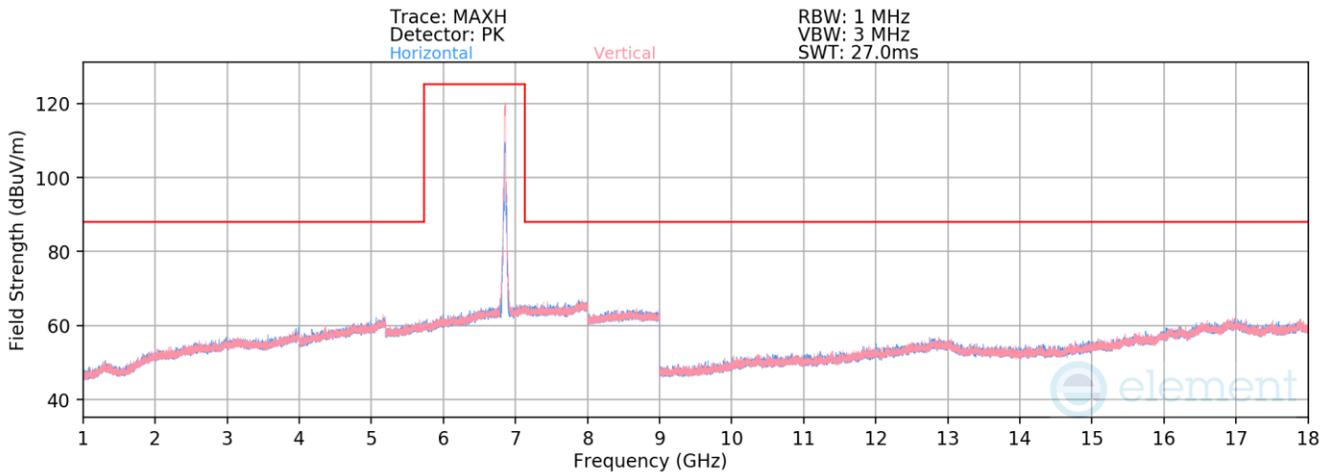
Plot 7-178. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 149)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

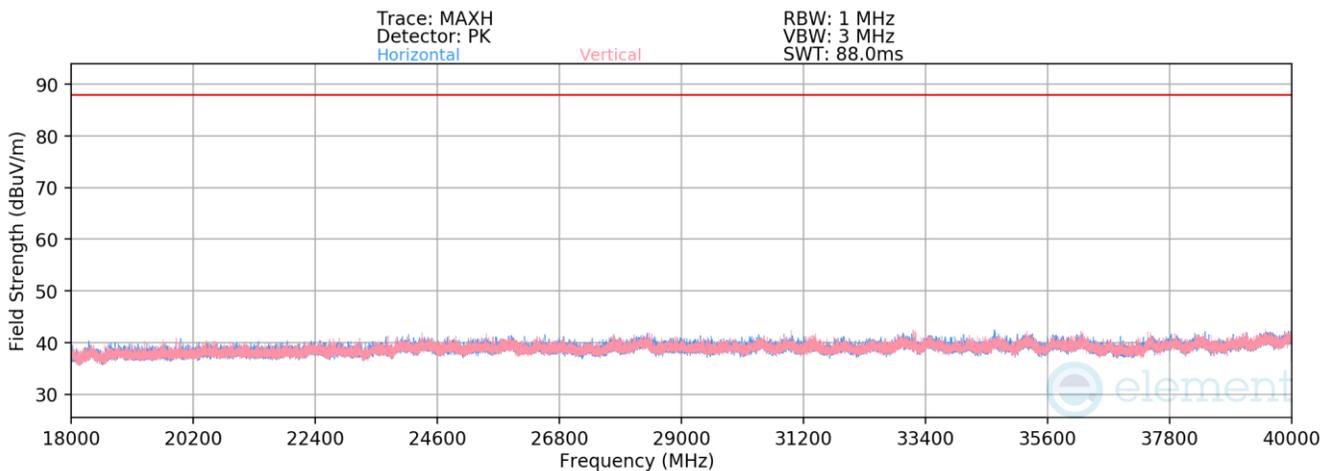
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 13390.00	Average	H	-	-	-85.75	22.21	43.46	53.98	-10.52
* 13390.00	Peak	H	-	-	-74.13	22.13	55.00	73.98	-18.98

Table 7-51. Radiated Spurious Emission Measurements SDM Diversity

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 101 of 134



Plot 7-179. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 181)



Plot 7-180. Radiated Spurious Emissions 18-40GHz SDM Diversity (802.11ax – Ch. 181)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6855MHz
 Channel: 181

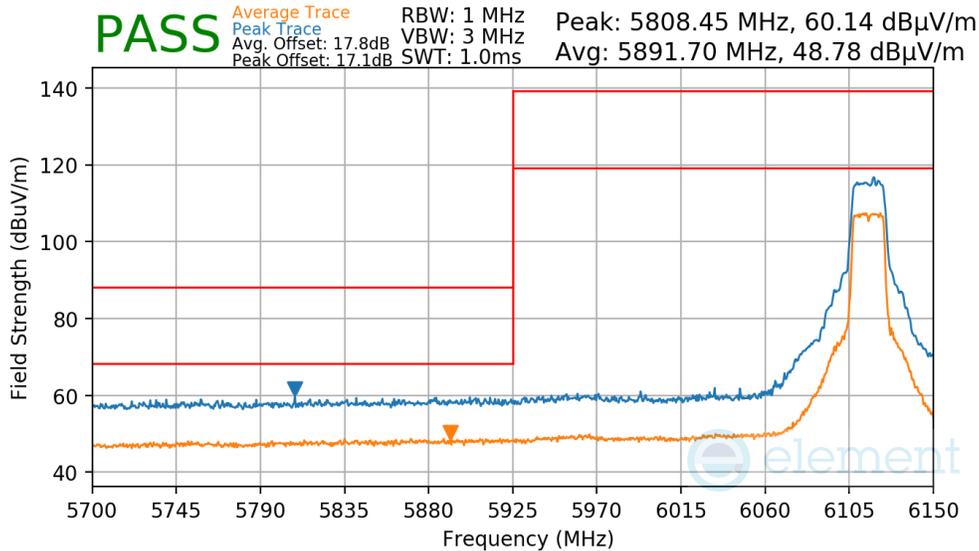
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13710.00	Average	V	-	-	-86.10	22.04	42.94	68.23	-25.29
13710.00	Peak	V	-	-	-74.38	21.75	54.37	88.23	-33.86

Table 7-52. Radiated Spurious Emission Measurements SDM Diversity

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 102 of 134

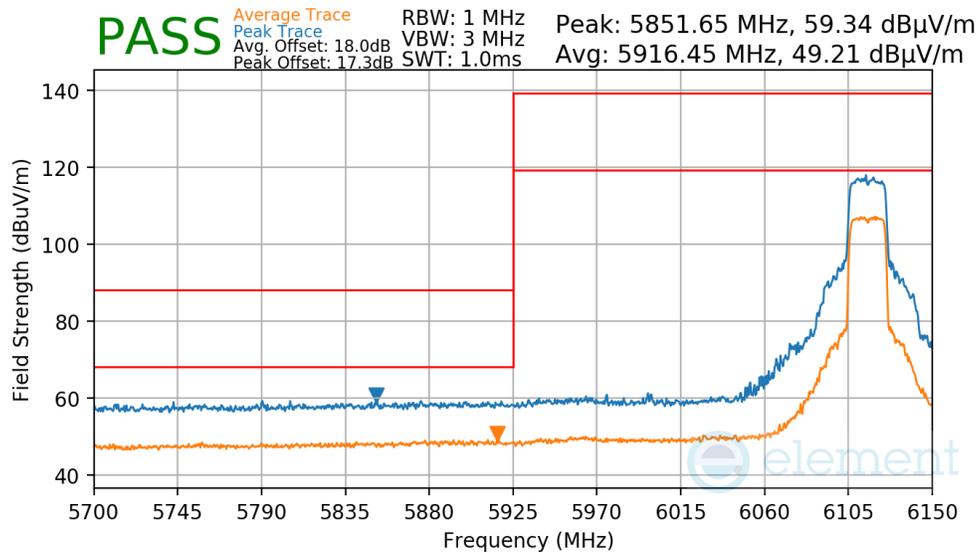
7.8.3 Antenna 5T Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	MCS54
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-181 Antenna 5T Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33

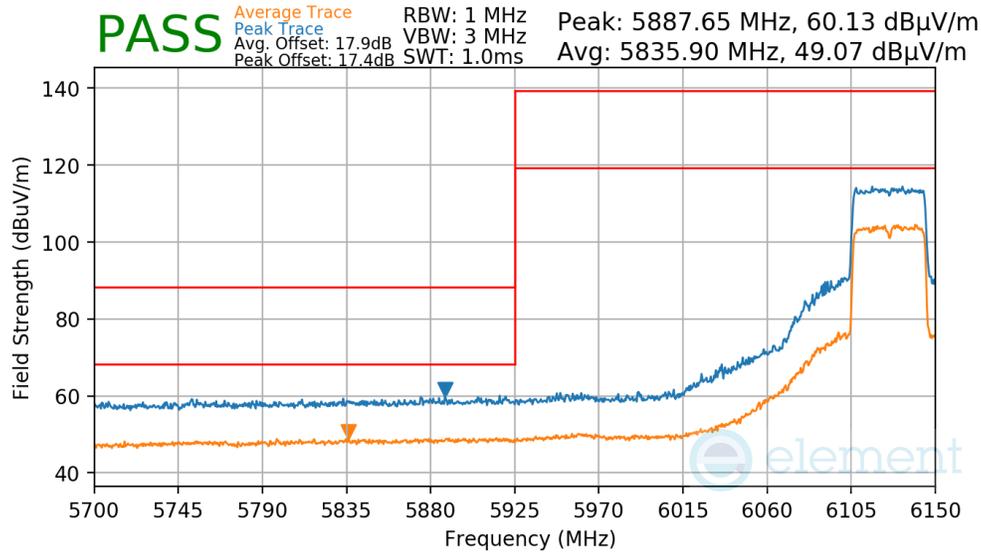


Plot 7-182 Antenna 5T Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 103 of 134

7.8.4 Antenna 5T Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



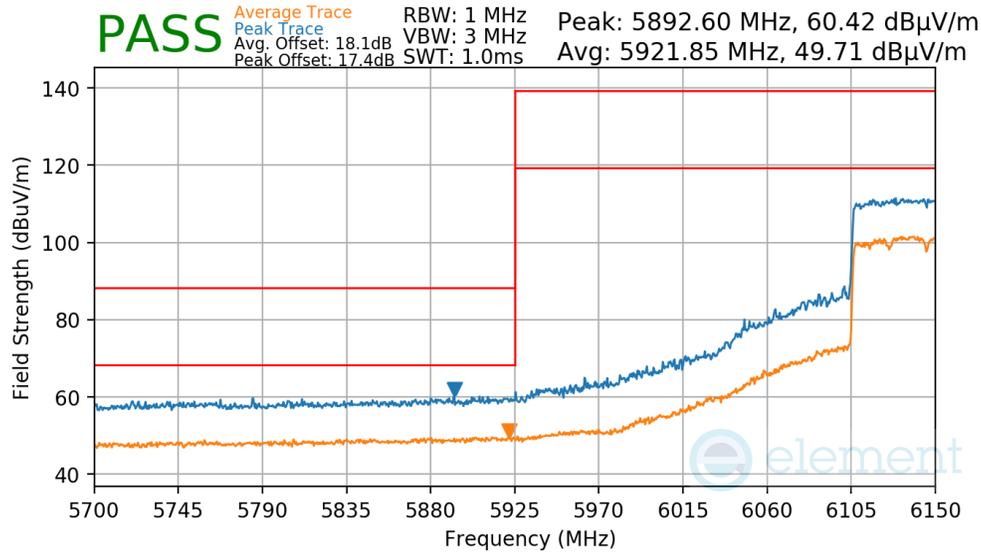
Plot 7-183 Antenna 5T Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 104 of 134

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7.8.5 Antenna 5T Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39

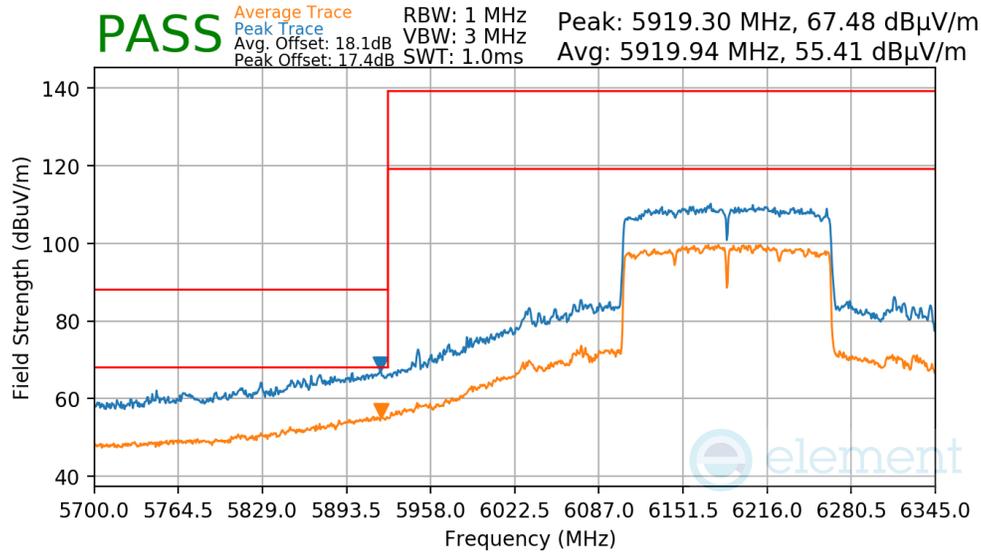


Plot 7-184 Antenna 5T Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 105 of 134

7.8.6 Antenna 5T Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



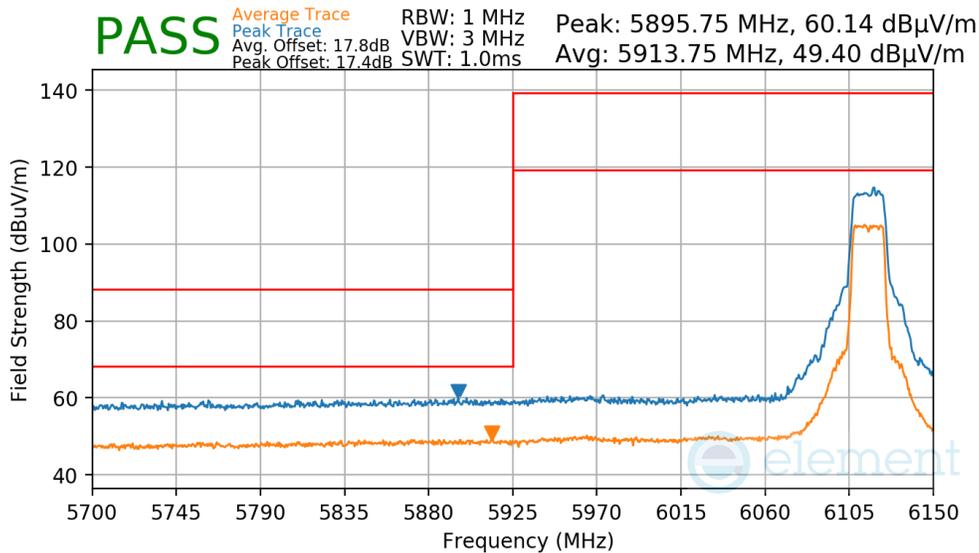
Plot 7-185 Antenna 5T Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 106 of 134

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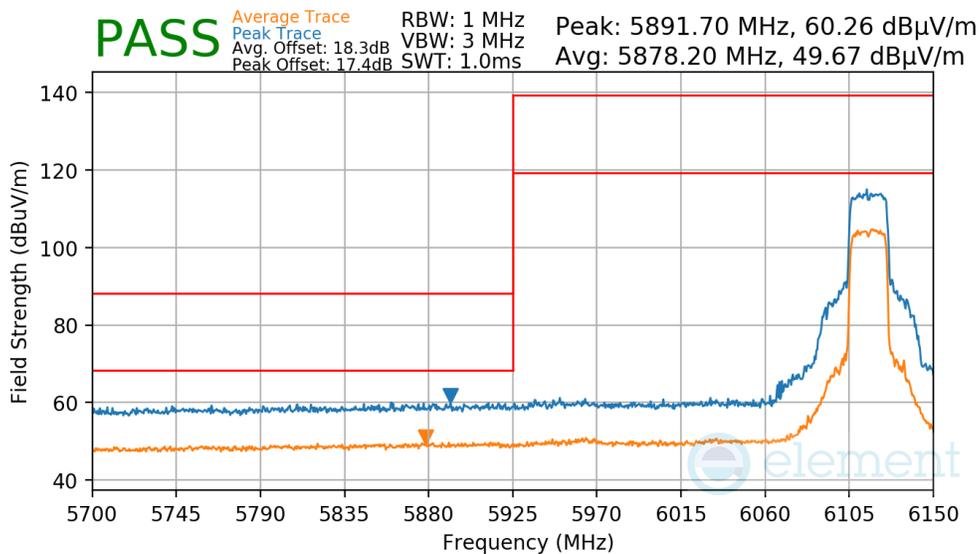
7.8.7 Antenna 3b Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	MCS54
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-186 Antenna 3b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33

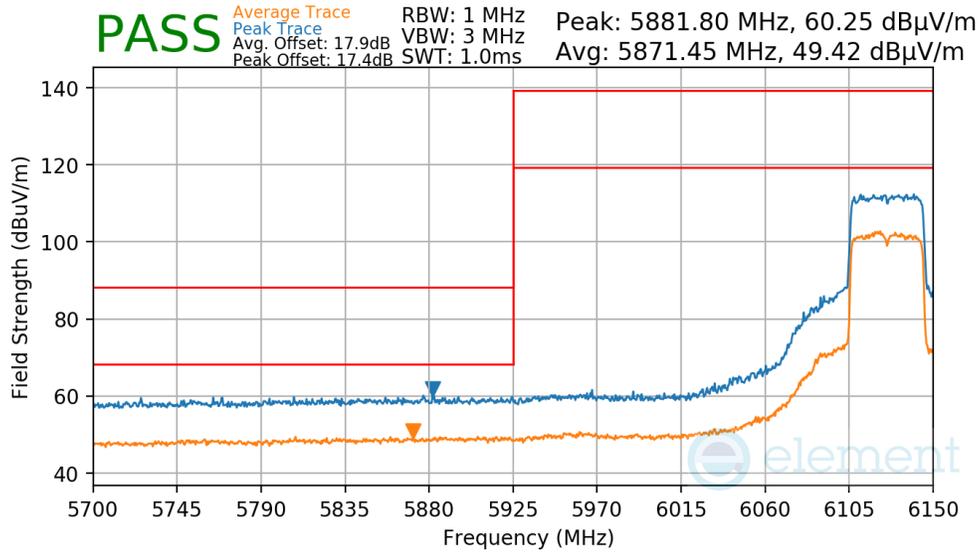


Plot 7-187 Antenna 3b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 107 of 134

7.8.8 Antenna 3b Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35

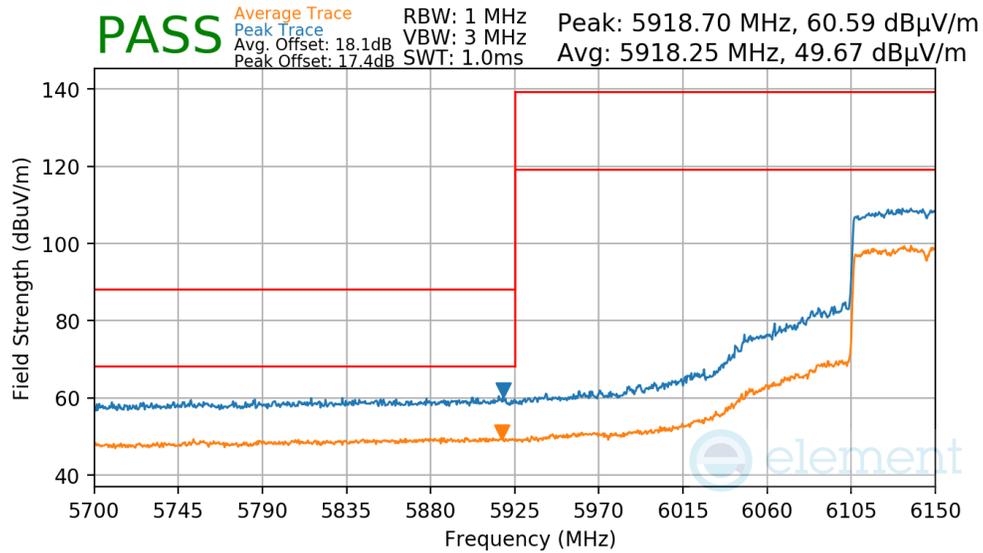


Plot 7-188 Antenna 3b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 108 of 134

7.8.9 Antenna 3b Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39

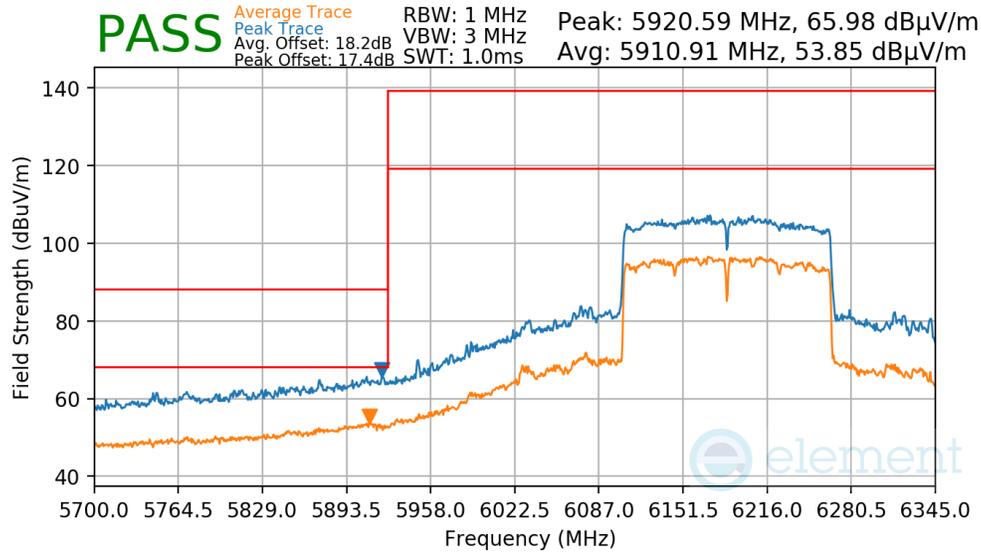


Plot 7-189 Antenna 3b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 109 of 134

7.8.10 Antenna 3b Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



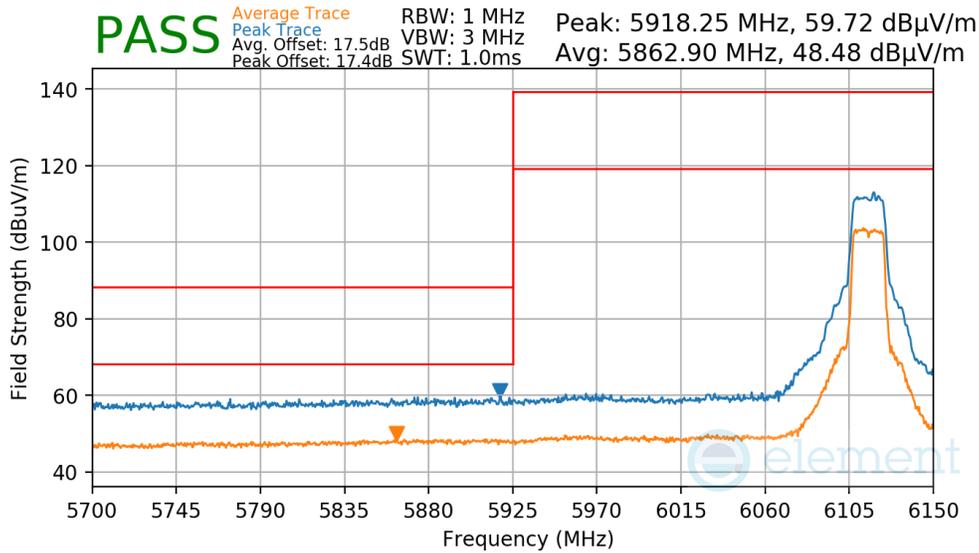
Plot 7-190 Antenna 3b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 110 of 134

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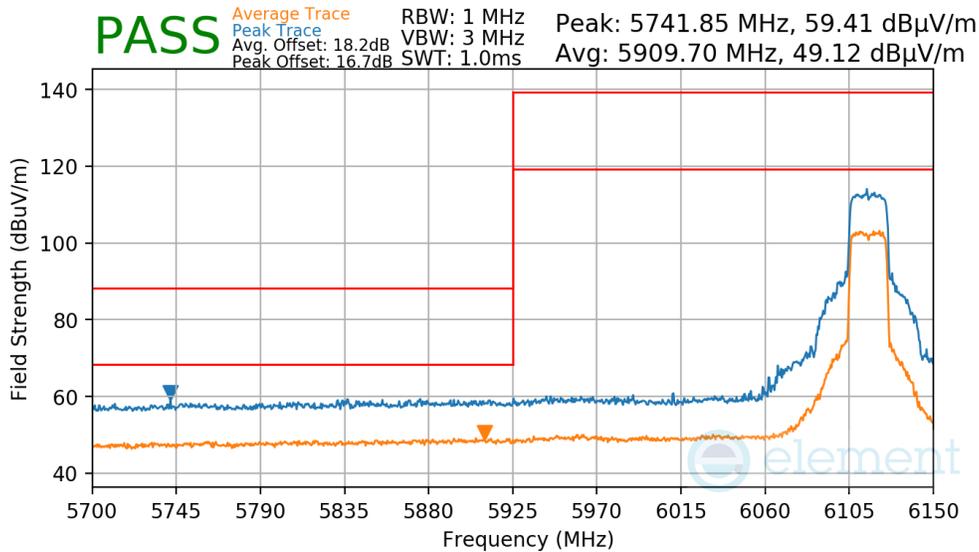
7.8.11 Antenna 1b Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	MCS54
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-191 Antenna 1b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33

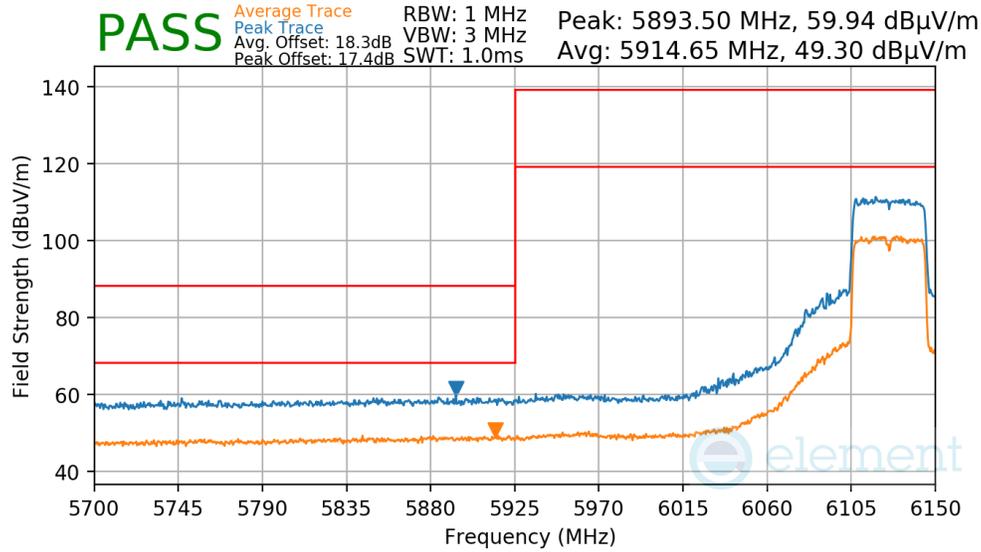


Plot 7-192 Antenna 1b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 111 of 134

7.8.12 Antenna 1b Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35

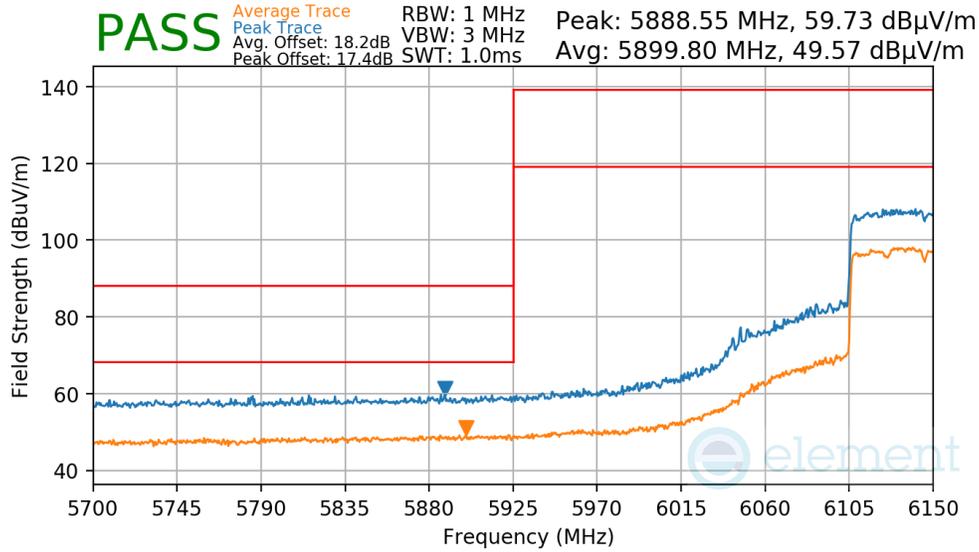


Plot 7-193 Antenna 1b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 112 of 134

7.8.13 Antenna 1b Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



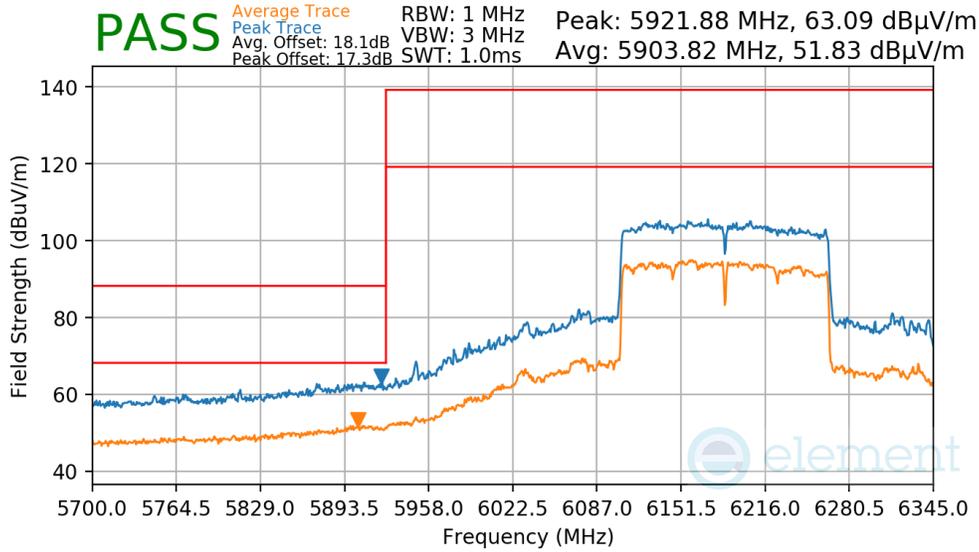
Plot 7-194 Antenna 1b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 113 of 134

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7.8.14 Antenna 1b Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47

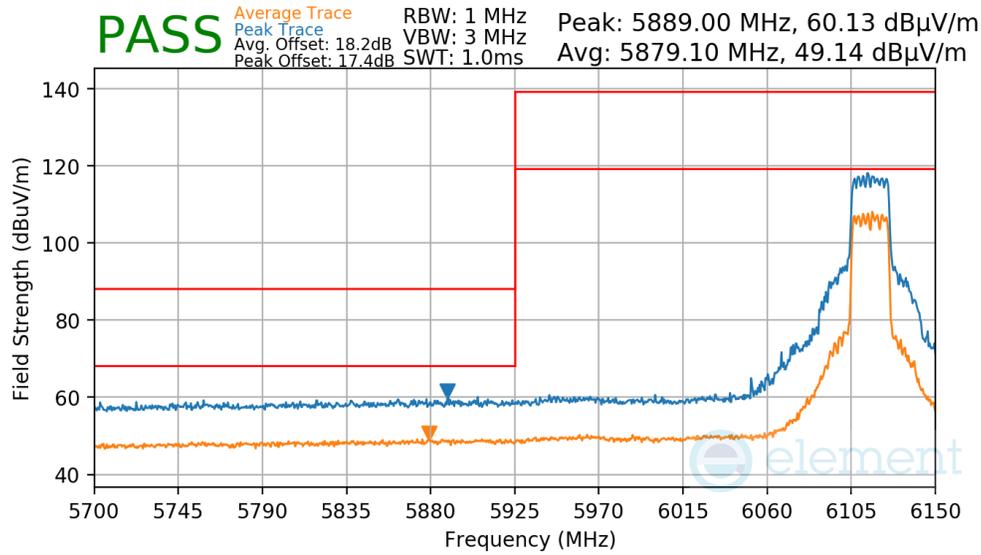


Plot 7-195 Antenna 1b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 114 of 134

7.8.15 SDM Primary Radiated Band Edge Measurements (20MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



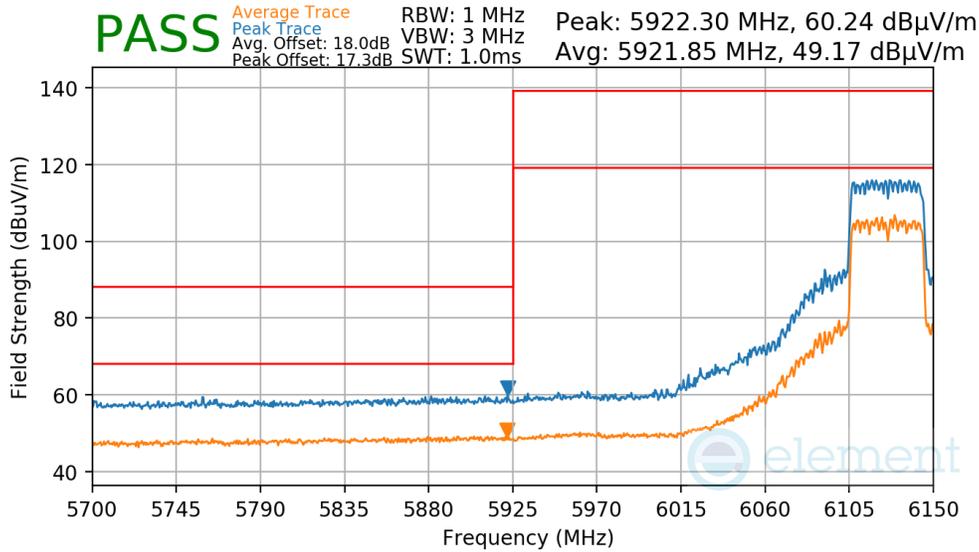
Plot 7-196 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 115 of 134

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7.8.16 SDM Primary Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35

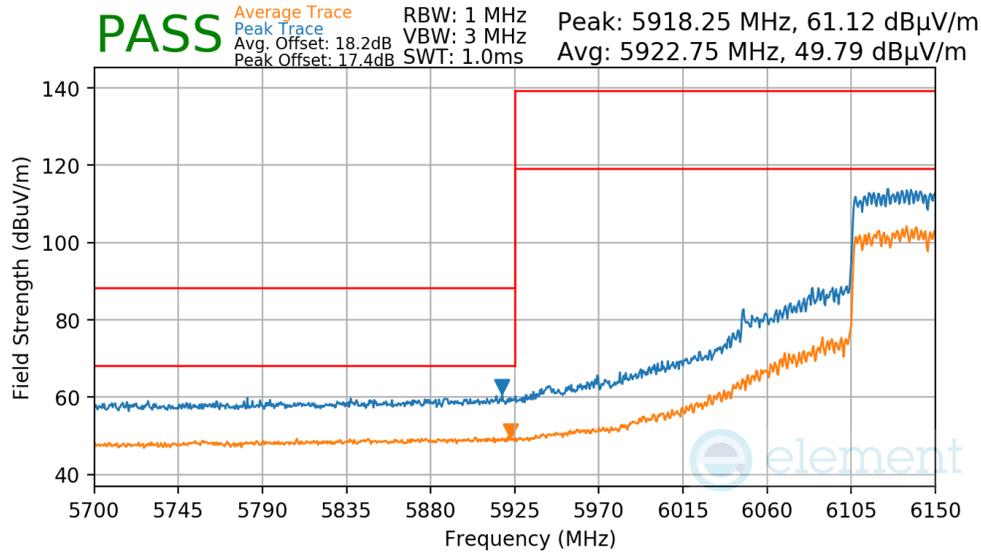


Plot 7-197 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 116 of 134

7.8.17 SDM Primary Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39

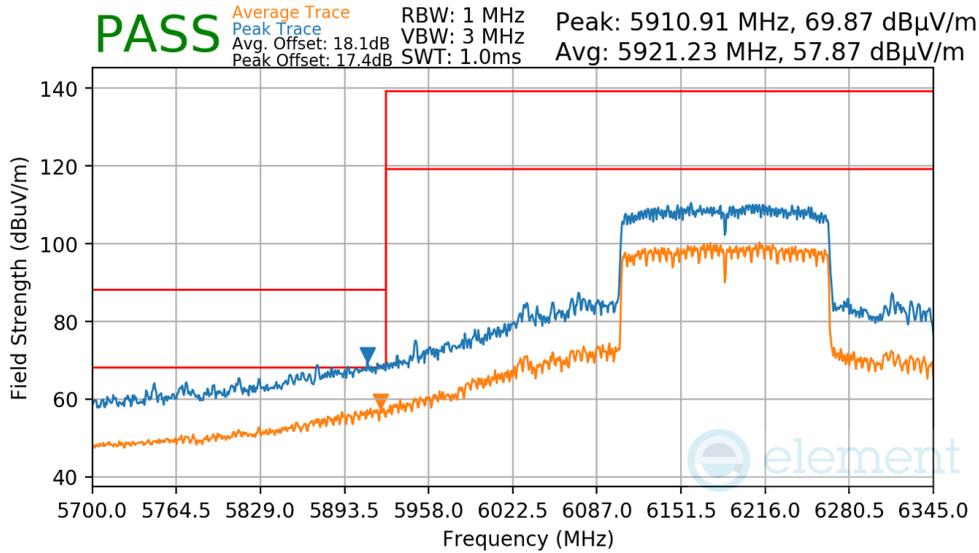


Plot 7-198 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 117 of 134

7.8.18 SDM Primary Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47

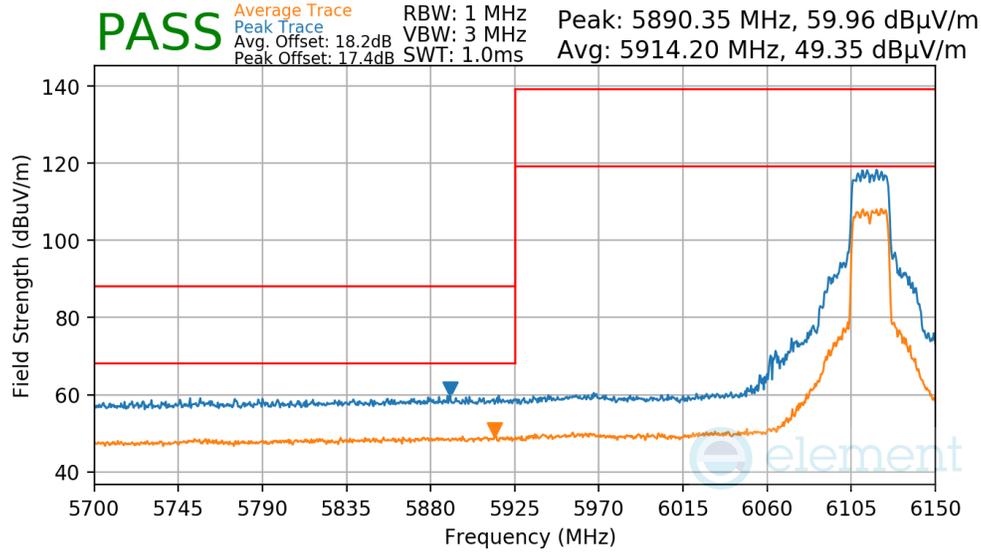


Plot 7-199 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 118 of 134

7.8.19 SDM Diversity Radiated Band Edge Measurements (20MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33

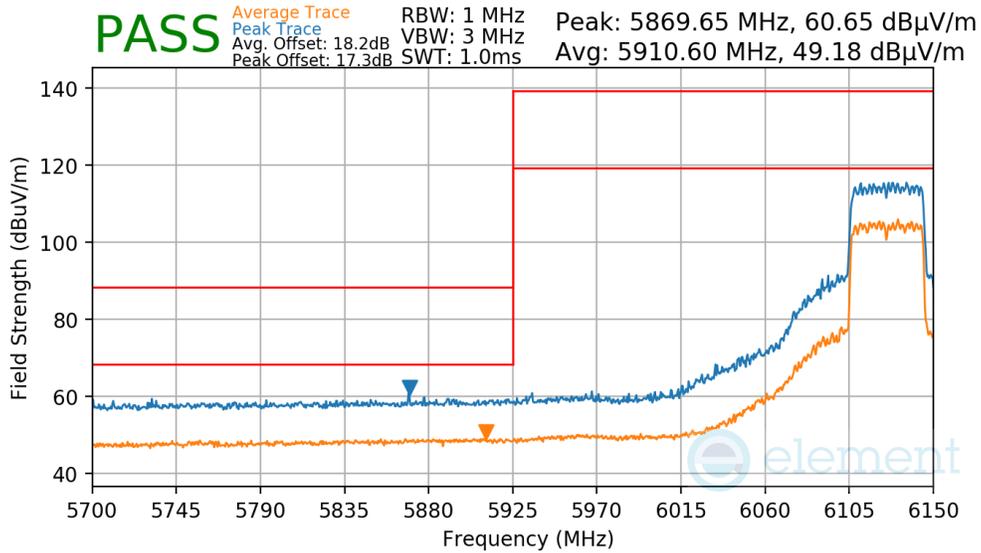


Plot 7-200 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8.20 SDM Diversity Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35

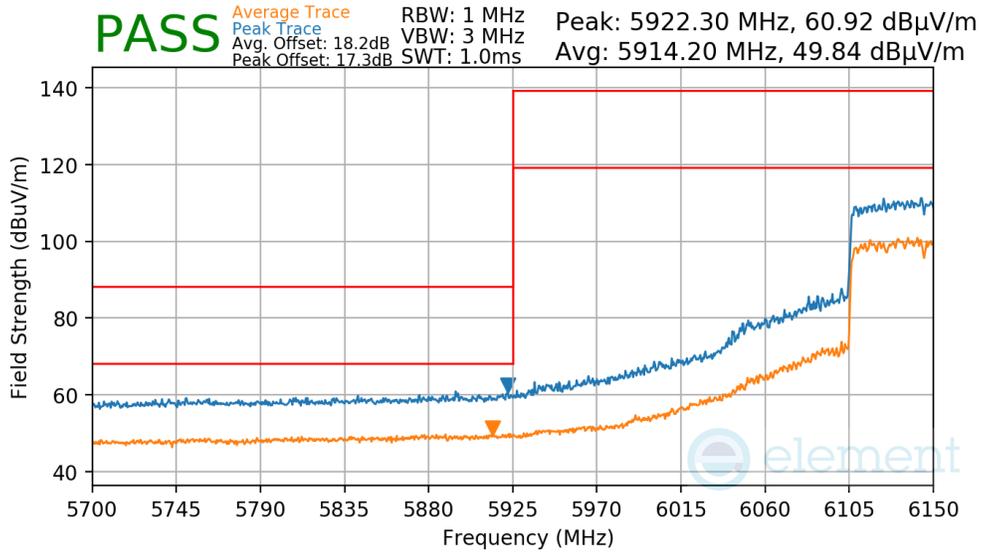


Plot 7-201 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8.21 SDM Diversity Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39

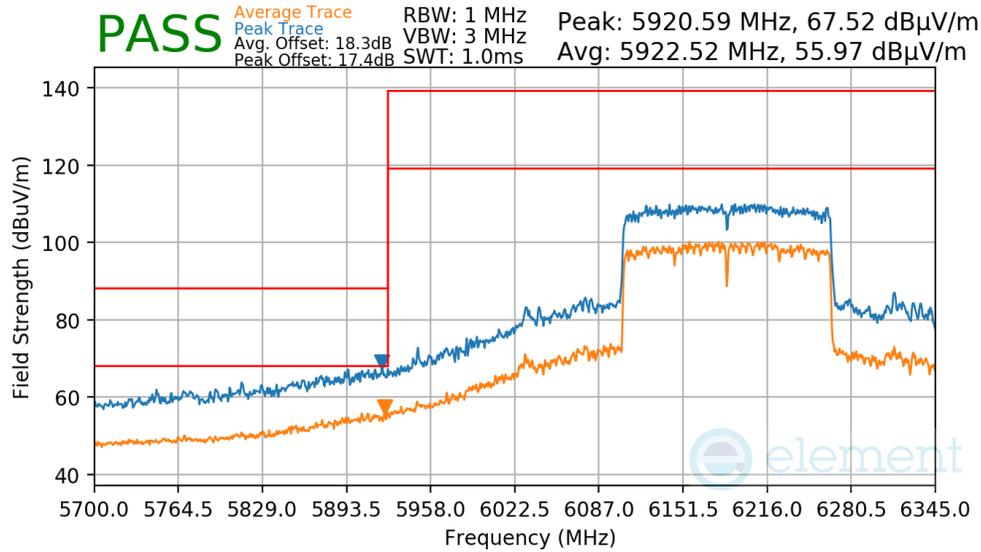


Plot 7-202 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 121 of 134

7.8.22 SDM Diversity Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



Plot 7-203 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.9 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 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 C63.10-2020

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 = quasi-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.

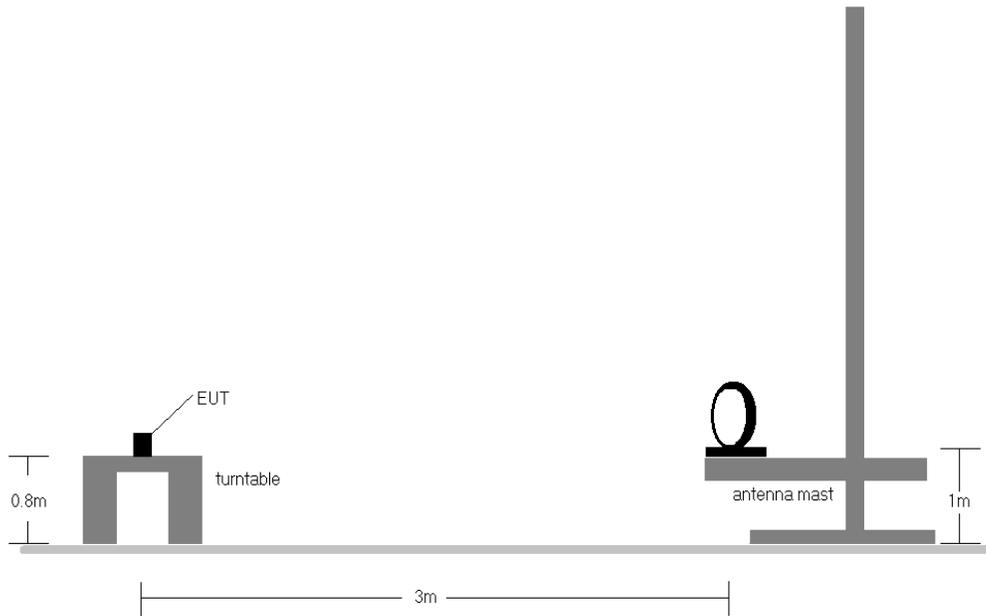


Figure 7-8. Radiated Test Setup < 30MHz

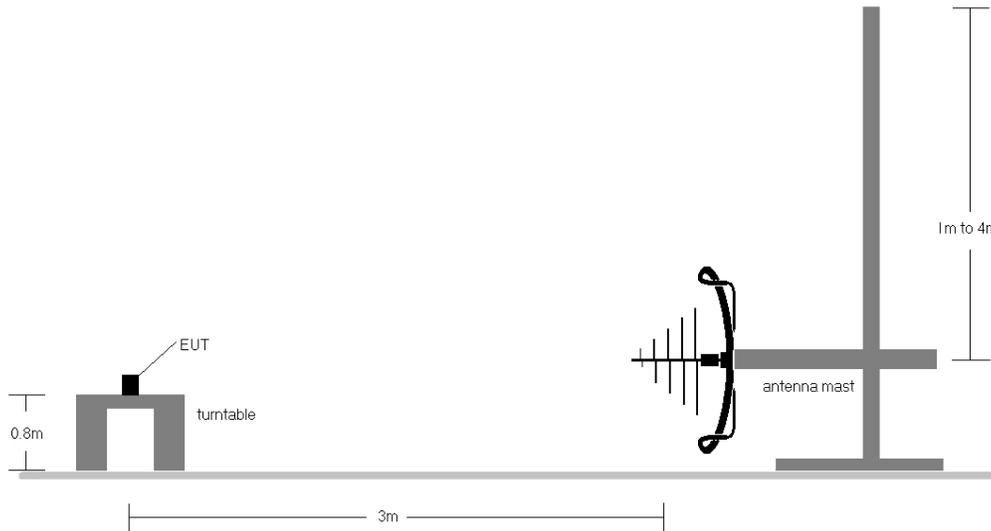


Figure 7-9. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-53.
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 on emissions that were 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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
10. All antenna configurations were investigated and only the worst case is reported.
11. The unit was tested with all possible modes and only the highest emission is reported.

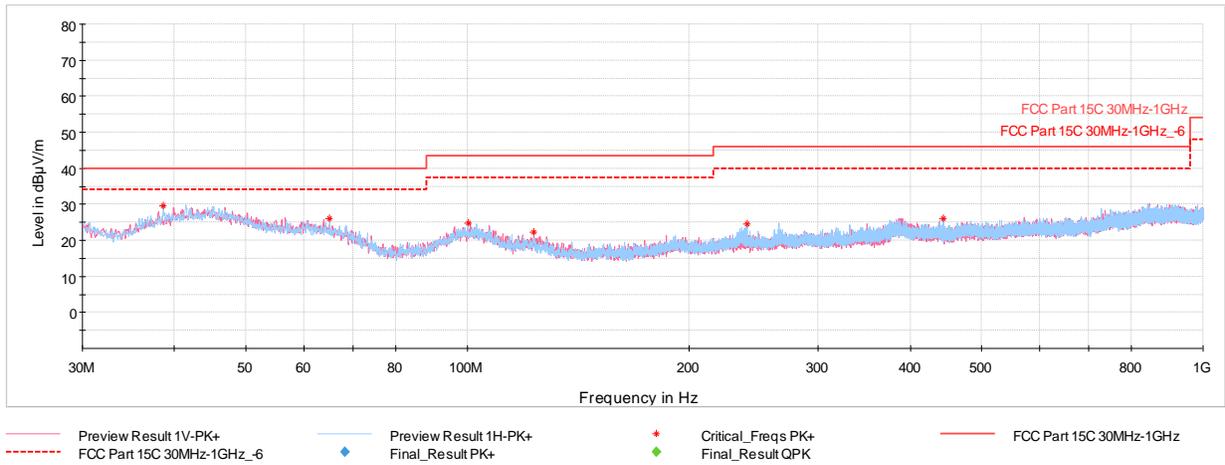
Sample Calculations

Determining Spurious Emissions Levels

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

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7.9.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)



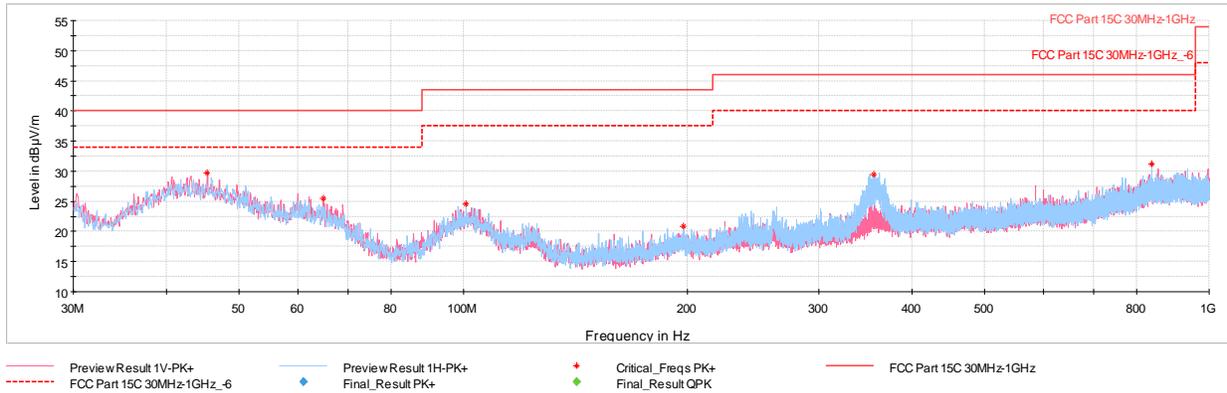
Plot 7-204. Radiated Spurious Emissions below 1GHz SDM Primary, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

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]
38.63	Max Peak	H	200	73	-61.19	-16.28	29.53	40.00	-10.47
65.02	Max Peak	H	300	4	-63.69	-17.34	25.97	40.00	-14.03
100.28	Max Peak	H	100	55	-65.66	-16.56	24.78	43.52	-18.74
123.22	Max Peak	V	100	344	-65.86	-18.80	22.34	43.52	-21.18
240.39	Max Peak	H	100	218	-67.76	-14.73	24.51	46.02	-21.51
443.22	Max Peak	H	200	68	-70.92	-9.96	26.12	46.02	-19.90

Table 7-54. Radiated Spurious Emissions Measurement below 1GHz SDM Primary, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.9.2 SDM Diversity Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-205. Radiated Spurious Emissions below 1GHz SDM Diversity, 802.11ax, Ch.33 with host PC via 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]
45.37	Max Peak	V	200	242	-62.70	-14.52	29.78	40.00	-10.22
64.92	Max Peak	V	300	275	-64.25	-17.30	25.45	40.00	-14.55
100.96	Max Peak	H	300	318	-65.95	-16.49	24.56	43.52	-18.96
197.13	Max Peak	H	100	204	-70.55	-15.64	20.81	43.52	-22.71
355.10	Max Peak	H	100	87	-65.56	-11.96	29.48	46.02	-16.54
836.80	Max Peak	H	100	181	-73.56	-2.28	31.16	46.02	-14.86

Table 7-55. Radiated Spurious Emissions Measurement below 1GHz SDM Diversity, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.10 AC Line-Conducted Emissions Measurement

§15.407; 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. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

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

Table 7-56. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, Section 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.

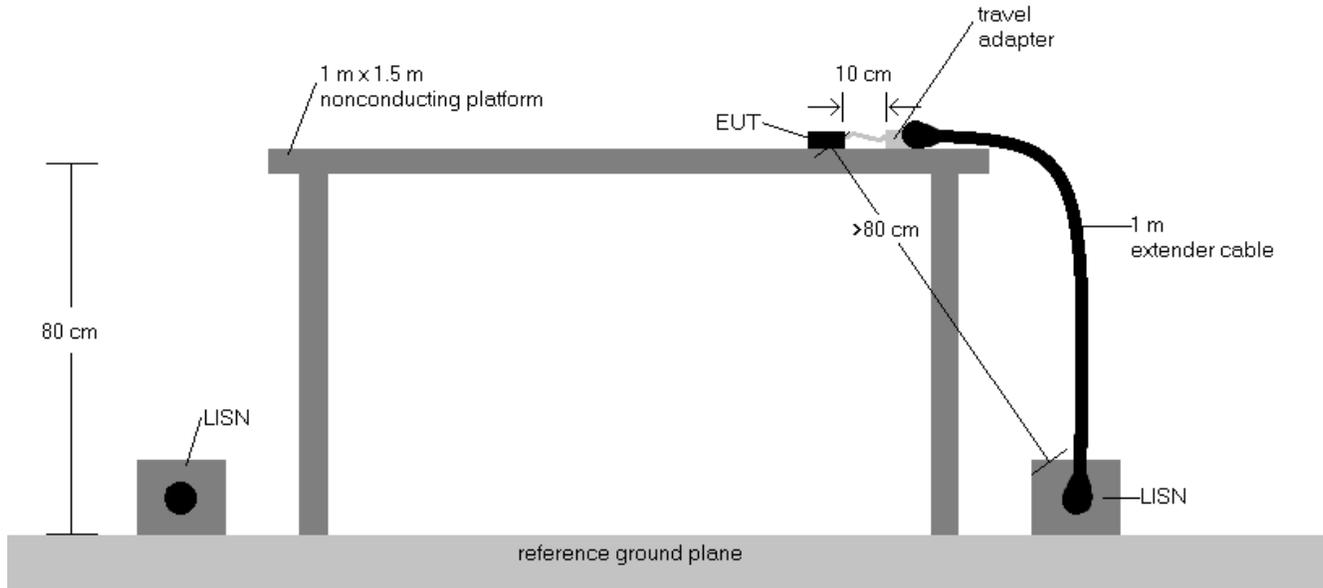


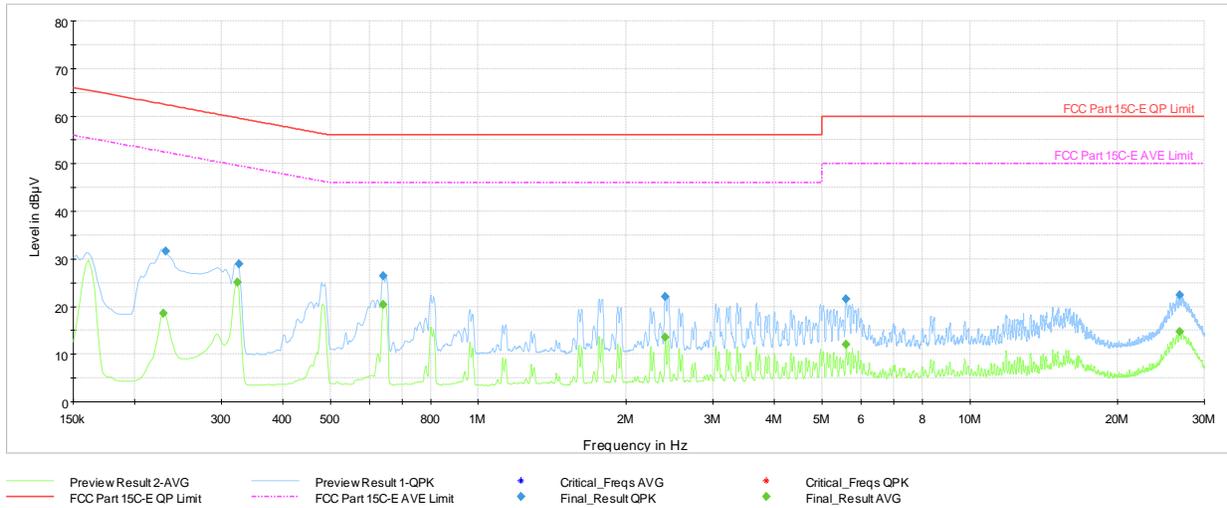
Figure 7-10. Test Instrument & Measurement Setup

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 via 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 and RSS-Gen (8.8).
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.
9. The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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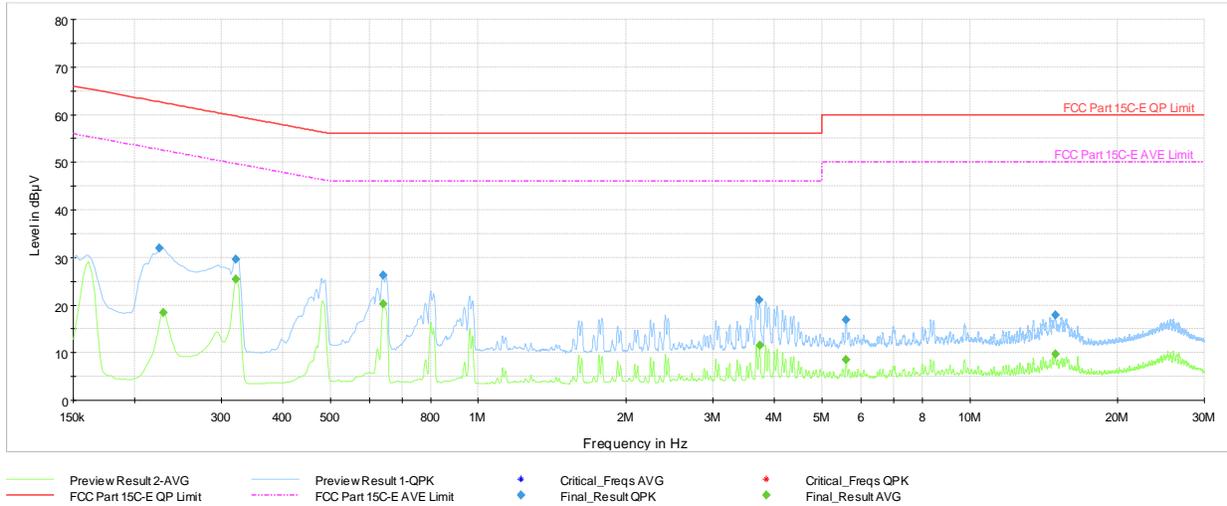


Plot 7-206. AC Line Conducted Plot with 802.11ax SDM Primary – Ch.33 (L1), with host PC via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.23	FINAL	---	18.64	52.50	-33.86	L1	GND
0.23	FINAL	31.57	---	62.41	-30.84	L1	GND
0.32	FINAL	---	25.18	49.62	-24.44	L1	GND
0.33	FINAL	28.91	---	59.57	-30.66	L1	GND
0.64	FINAL	---	20.35	46.00	-25.65	L1	GND
0.64	FINAL	26.42	---	56.00	-29.58	L1	GND
2.40	FINAL	22.13	---	56.00	-33.87	L1	GND
2.40	FINAL	---	13.56	46.00	-32.44	L1	GND
5.60	FINAL	21.55	---	60.00	-38.45	L1	GND
5.61	FINAL	---	12.10	50.00	-37.90	L1	GND
26.70	FINAL	---	14.68	50.00	-35.32	L1	GND
26.71	FINAL	22.49	---	60.00	-37.51	L1	GND

Table 7-57. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 33 (L1) with host PC via USB-C cable with wire charger

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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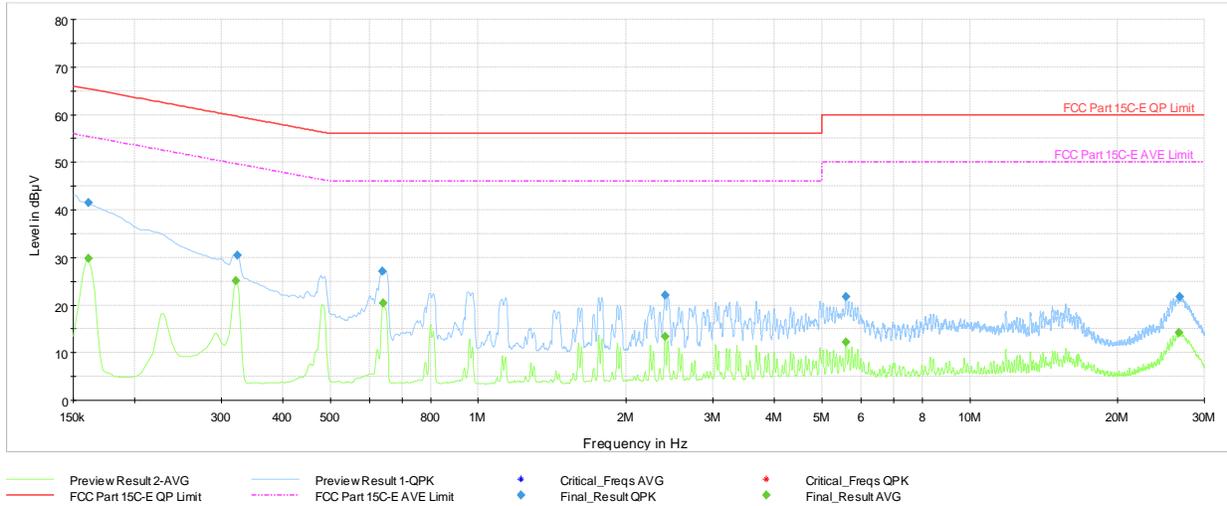


Plot 7-207. AC Line Conducted Plot with 802.11ax SDM Primary – Ch. 33 (N), with host PC via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.22	FINAL	31.95	---	62.66	-30.71	N	GND
0.23	FINAL	---	18.34	52.50	-34.16	N	GND
0.32	FINAL	---	25.47	49.68	-24.21	N	GND
0.32	FINAL	29.54	---	59.68	-30.14	N	GND
0.64	FINAL	---	20.26	46.00	-25.74	N	GND
0.64	FINAL	26.32	---	56.00	-29.68	N	GND
3.73	FINAL	21.02	---	56.00	-34.98	N	GND
3.73	FINAL	---	11.50	46.00	-34.50	N	GND
5.60	FINAL	16.86	---	60.00	-43.14	N	GND
5.60	FINAL	---	8.55	50.00	-41.45	N	GND
14.91	FINAL	---	9.74	50.00	-40.26	N	GND
14.93	FINAL	17.83	---	60.00	-42.17	N	GND

Table 7-58. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 33 (N), with host PC via USB-C cable with wire charger

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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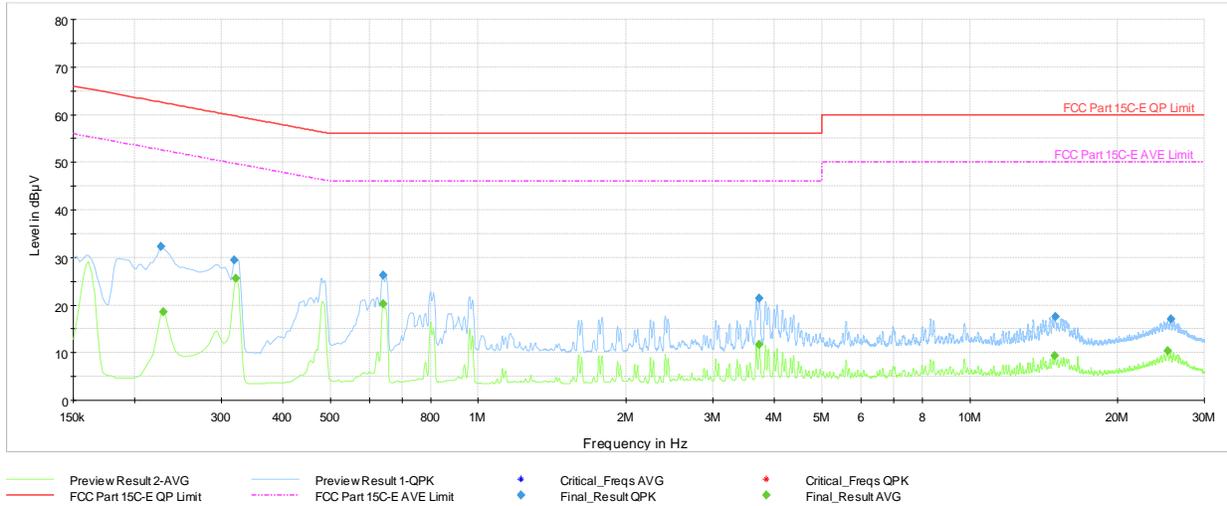


Plot 7-208. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch.33 (L1), with host PC via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.16	FINAL	---	29.71	55.40	-25.69	L1	GND
0.16	FINAL	41.52	---	65.40	-23.88	L1	GND
0.32	FINAL	---	25.07	49.68	-24.61	L1	GND
0.32	FINAL	30.54	---	59.62	-29.08	L1	GND
0.64	FINAL	27.15	---	56.00	-28.85	L1	GND
0.64	FINAL	---	20.48	46.00	-25.52	L1	GND
2.40	FINAL	22.03	---	56.00	-33.97	L1	GND
2.40	FINAL	---	13.33	46.00	-32.67	L1	GND
5.60	FINAL	21.70	---	60.00	-38.30	L1	GND
5.60	FINAL	---	12.19	50.00	-37.81	L1	GND
26.67	FINAL	---	14.27	50.00	-35.73	L1	GND
26.77	FINAL	21.80	---	60.00	-38.20	L1	GND

Table 7-59. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 33 (L1) with host PC via USB-C cable with wire charger

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-209. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch. 33 (N), with host PC via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.23	FINAL	32.32	---	62.58	-30.26	N	GND
0.23	FINAL	---	18.54	52.50	-33.96	N	GND
0.32	FINAL	29.51	---	59.74	-30.23	N	GND
0.32	FINAL	---	25.53	49.68	-24.15	N	GND
0.64	FINAL	26.29	---	56.00	-29.71	N	GND
0.64	FINAL	---	20.29	46.00	-25.71	N	GND
3.73	FINAL	21.37	---	56.00	-34.63	N	GND
3.73	FINAL	---	11.77	46.00	-34.23	N	GND
14.90	FINAL	---	9.43	50.00	-40.57	N	GND
14.91	FINAL	17.54	---	60.00	-42.46	N	GND
25.25	FINAL	---	10.31	50.00	-39.69	N	GND
25.60	FINAL	17.08	---	60.00	-42.92	N	GND

Table 7-60. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 33 (N), with host PC via USB-C cable with wire charger

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA3269** and **IC: 579C-A3269** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-248 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA3269 IC: 579C-A3269	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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