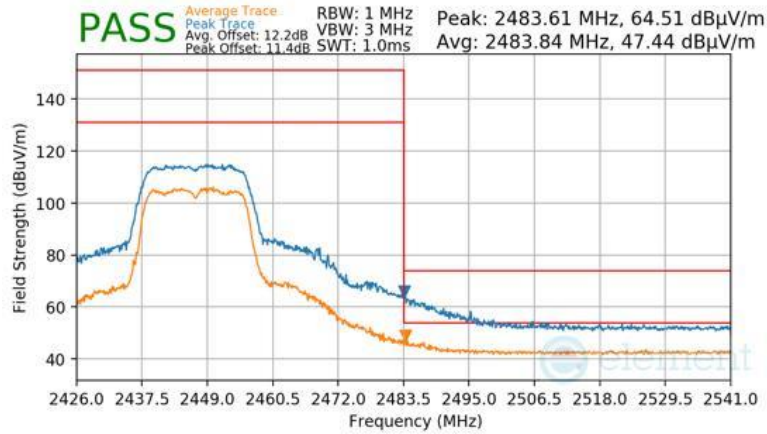
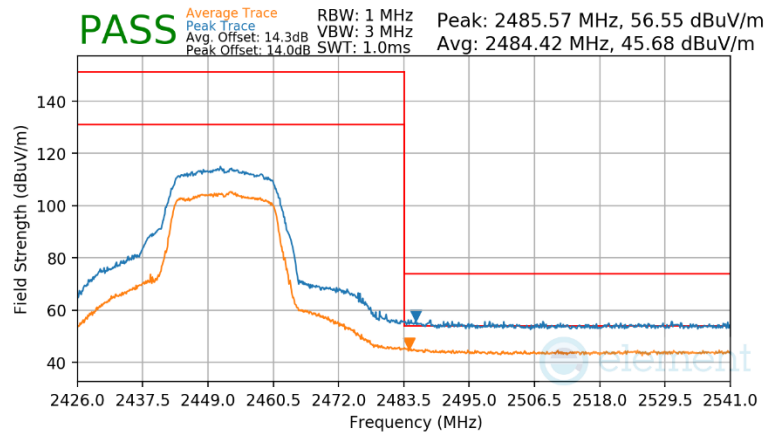


Mode	802.11n
Data Rate	MCS15
Distance of Measurement	3 Meters
Operating Frequency	2447MHz
Channel	8



Plot 7-286 Radiated Restricted Upper Band Edge Measurement CDD

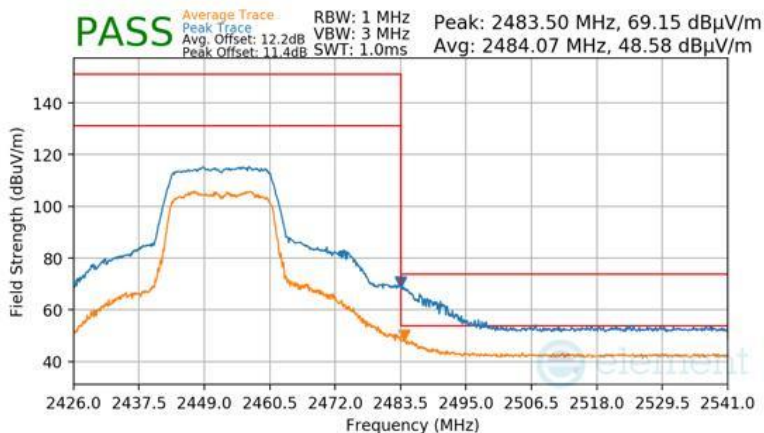
Mode	802.11n
Data Rate	MCS10
Distance of Measurement	3 Meters
Operating Frequency	2447MHz
Channel	9



Plot 7-287 Radiated Restricted Upper Band Edge Measurement CDD

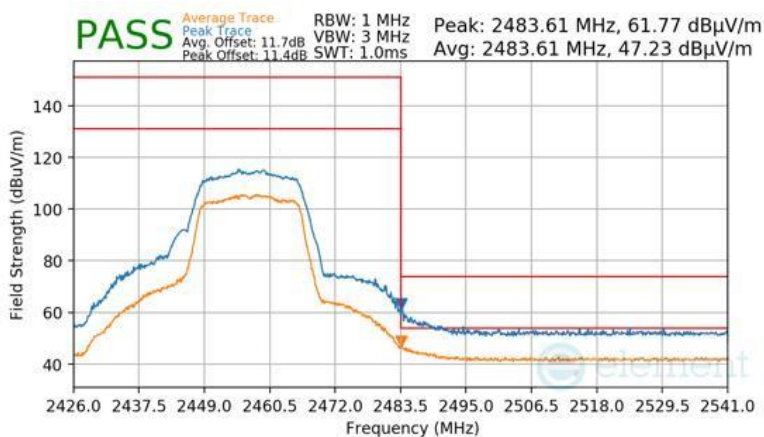
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 190 of 225

Mode	802.11n
Data Rate	MCS15
Distance of Measurement	3 Meters
Operating Frequency	2452MHz
Channel	9



Plot 7-288 Radiated Restricted Upper Band Edge Measurement CDD

Mode	802.11n
Data Rate	MCS10
Distance of Measurement	3 Meters
Operating Frequency	2457MHz
Channel	10



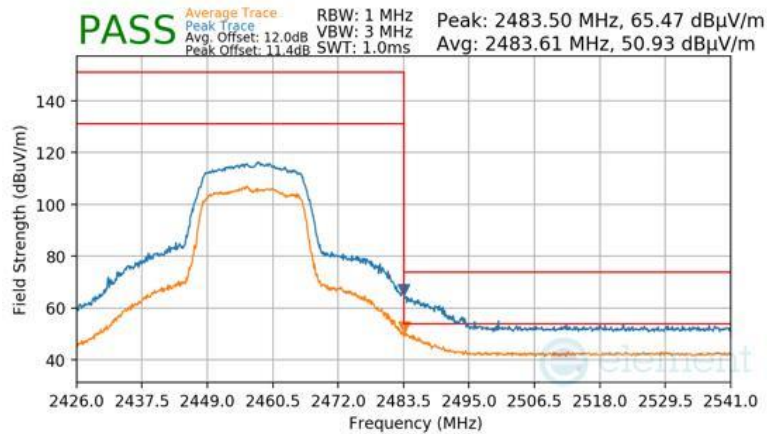
Plot 7-289 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 191 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

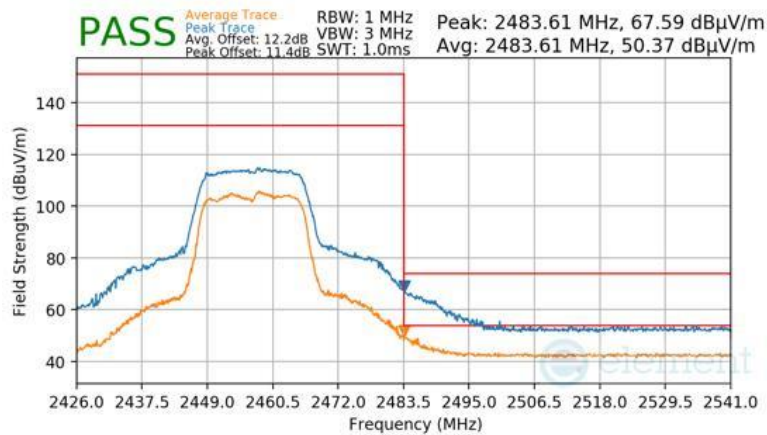
802.11n
 MCS12
 3 Meters
 2457MHz
 10



Plot 7-290 Radiated Restricted Upper Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11n
 MCS15
 3 Meters
 2457MHz
 10



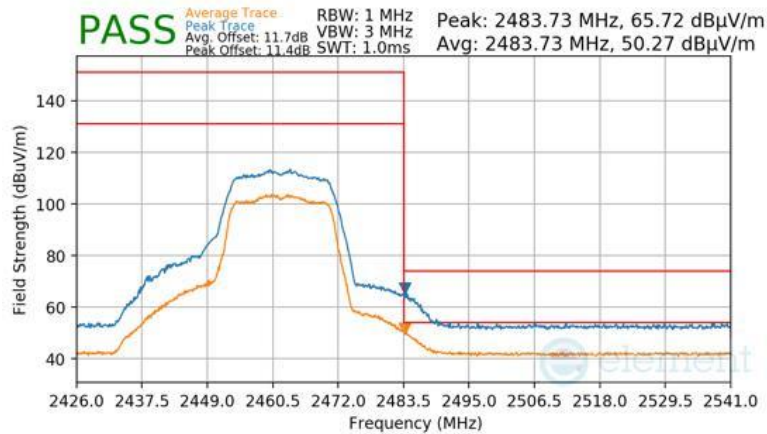
Plot 7-291 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 192 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

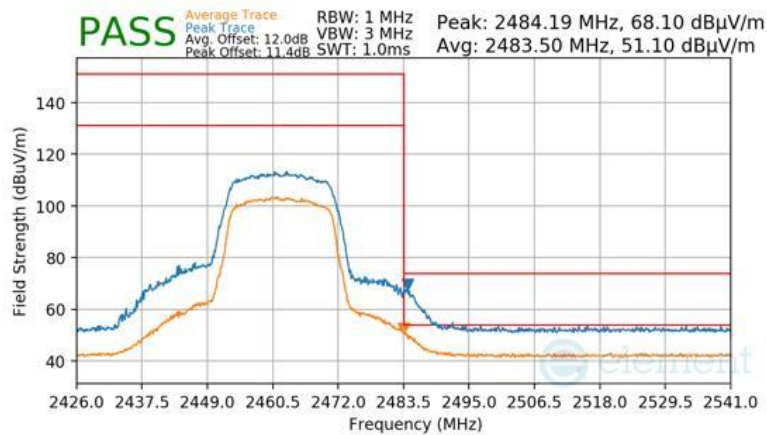
802.11n
 MCS10
 3 Meters
 2462MHz
 11



Plot 7-292 Radiated Restricted Upper Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11n
 MCS12
 3 Meters
 2462MHz
 11



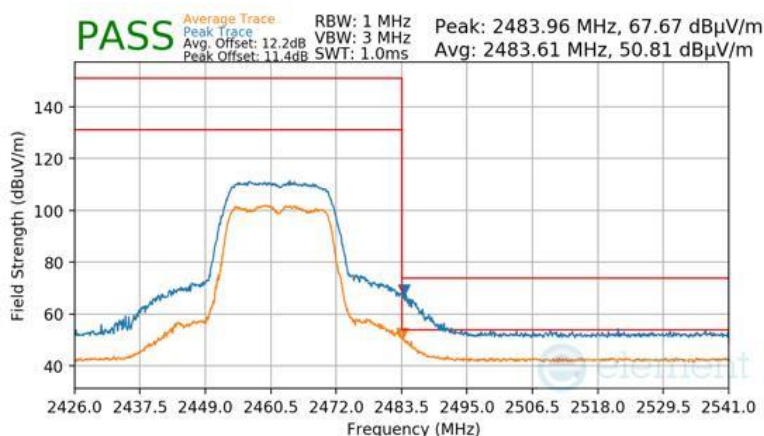
Plot 7-293 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 193 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

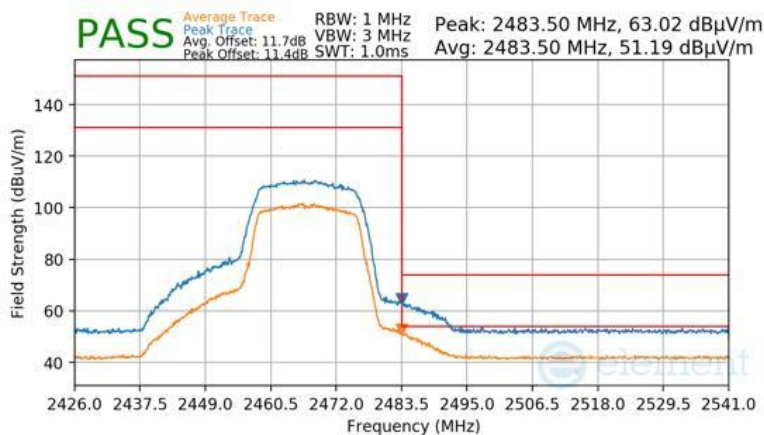
802.11n
 MCS15
 3 Meters
 2462MHz
 11



Plot 7-294 Radiated Restricted Upper Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11n
 MCS10
 3 Meters
 2467MHz
 12



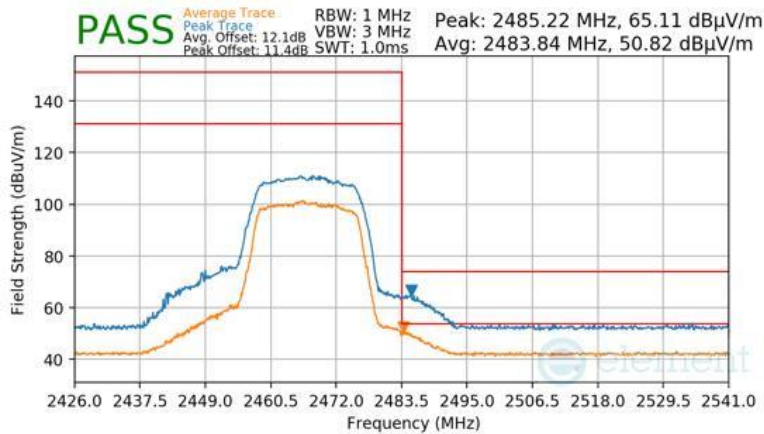
Plot 7-295 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 194 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

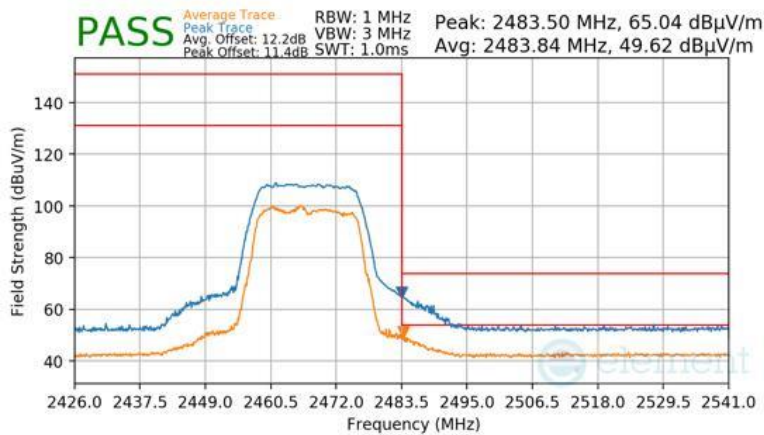
802.11n
 MCS12
 3 Meters
 2467MHz
 12



Plot 7-296 Radiated Restricted Upper Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11n
 MCS15
 3 Meters
 2467MHz
 12

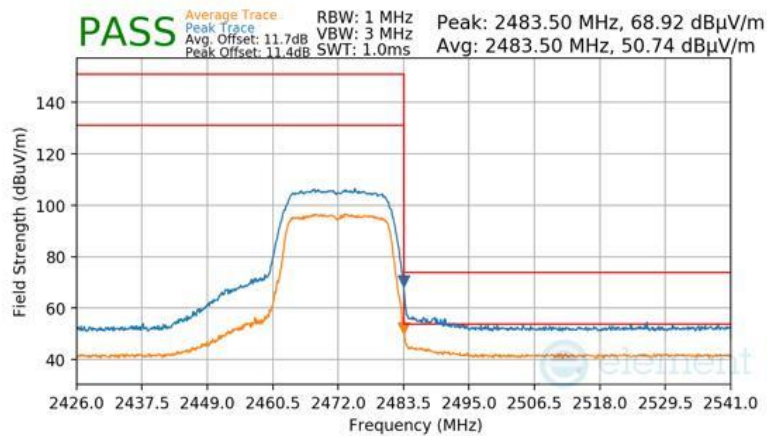


Plot 7-297 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 195 of 225

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

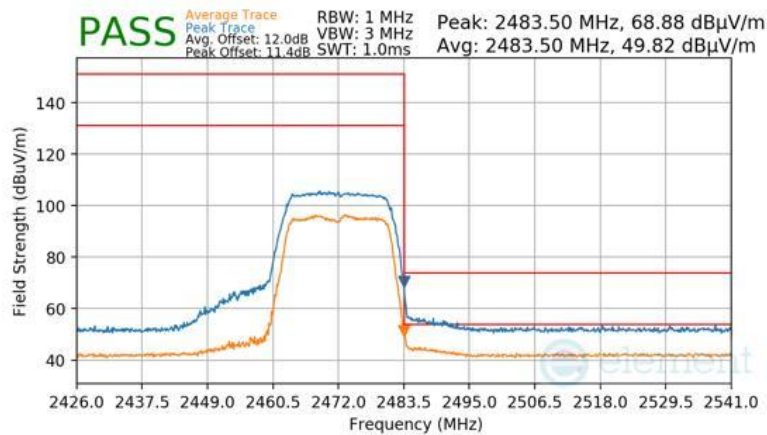
802.11n
 MCS10
 3 Meters
 2472MHz
 13



Plot 7-298 Radiated Restricted Upper Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11n
 MCS12
 3 Meters
 2472MHz
 13

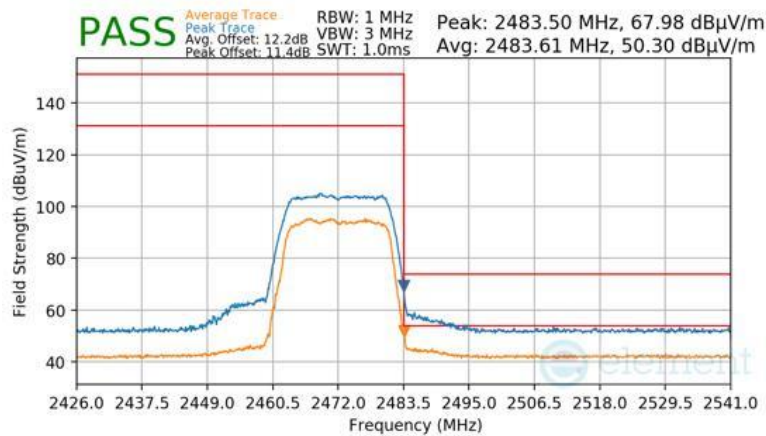


Plot 7-299 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 196 of 225

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

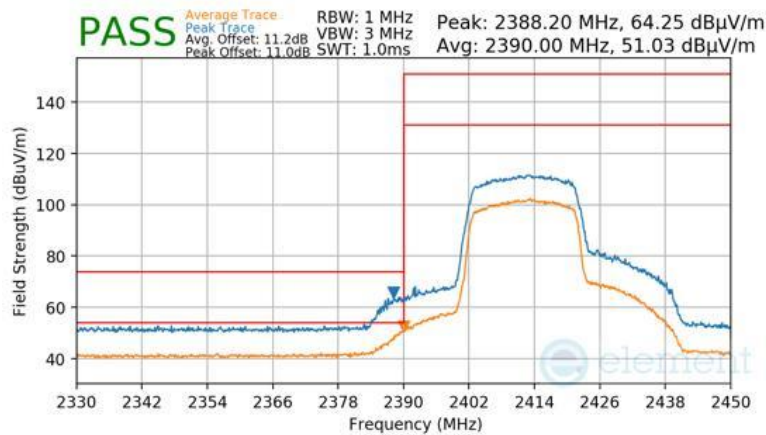
802.11n
 MCS15
 3 Meters
 2472MHz
 13



Plot 7-300 Radiated Restricted Upper Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS2
 3 Meters
 2412MHz
 1



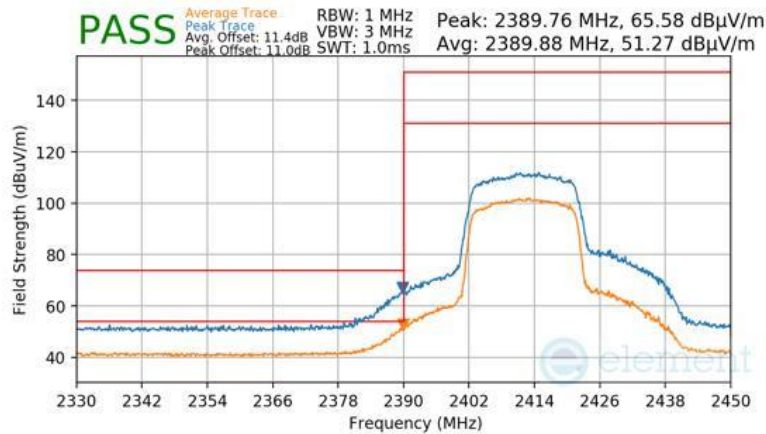
Plot 7-301 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 197 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

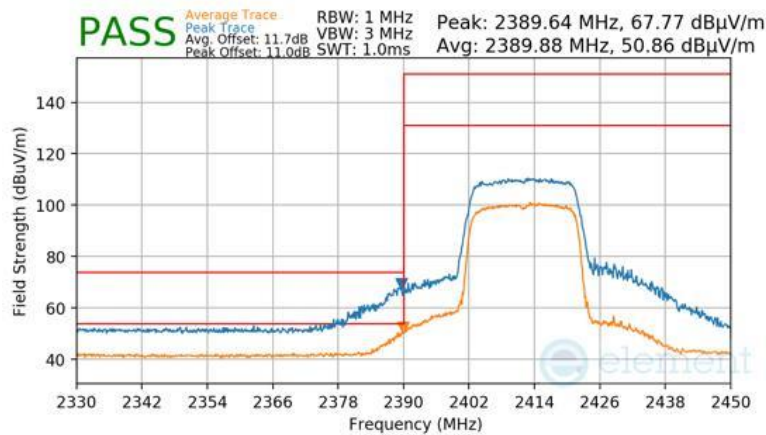
802.11ax-SU
MCS4
3 Meters
2412MHz
1



Plot 7-302 Radiated Restricted Lower Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
MCS9
3 Meters
2412MHz
1



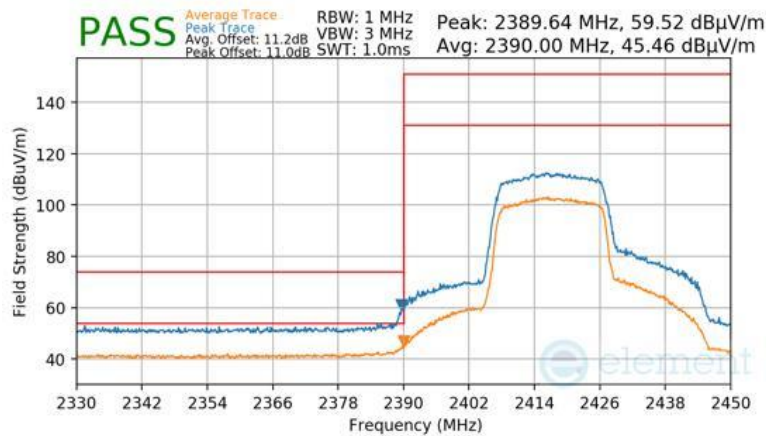
Plot 7-303 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 198 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

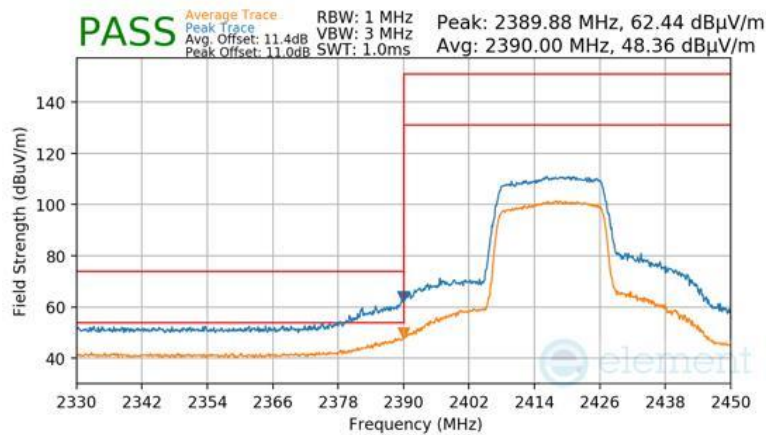
802.11ax-SU
 MCS2
 3 Meters
 2417MHz
 2



Plot 7-304 Radiated Restricted Lower Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS4
 3 Meters
 2417MHz
 2



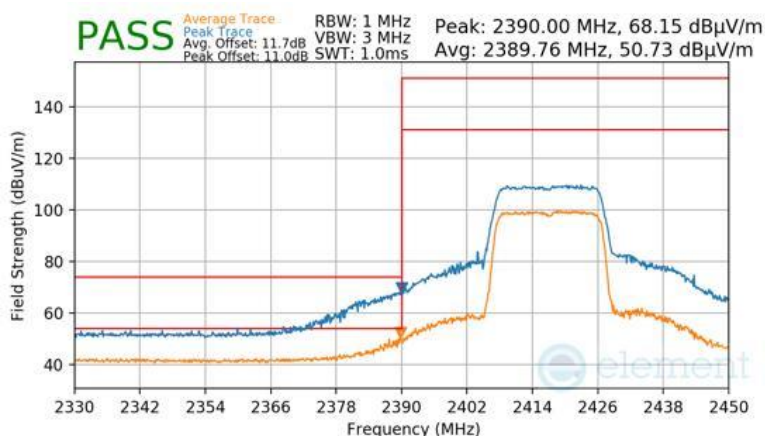
Plot 7-305 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 199 of 225

V 10.6 09/14/2023

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

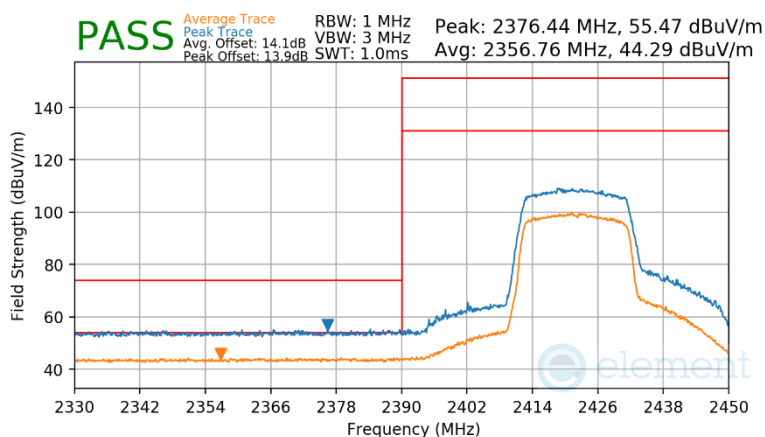
802.11ax-SU
 MCS9
 3 Meters
 2417MHz
 2



Plot 7-306 Radiated Restricted Lower Band Edge Measurement CDD

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS2
 3 Meters
 2422MHz
 3

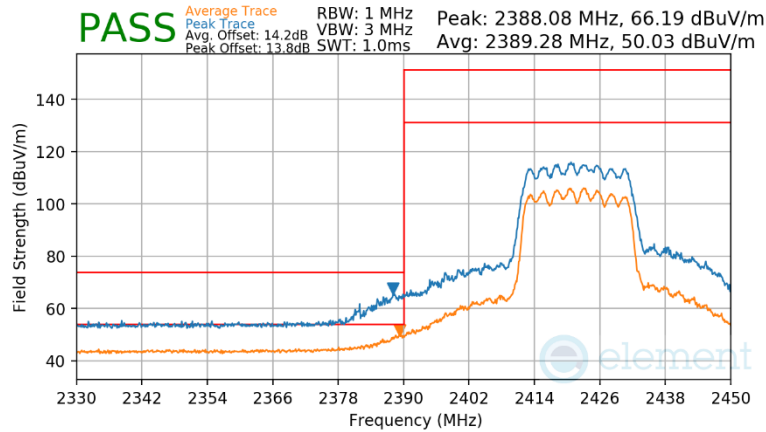


Plot 7-307 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 200 of 225

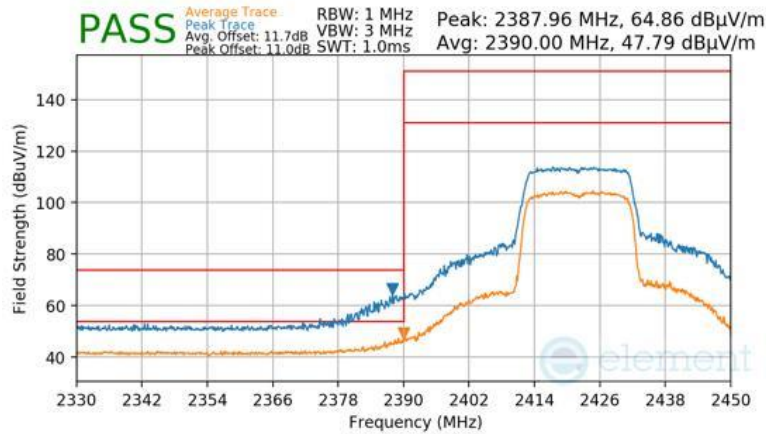
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2422MHz
Channel	3



Plot 7-308 Radiated Restricted Lower Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2422MHz
Channel	3

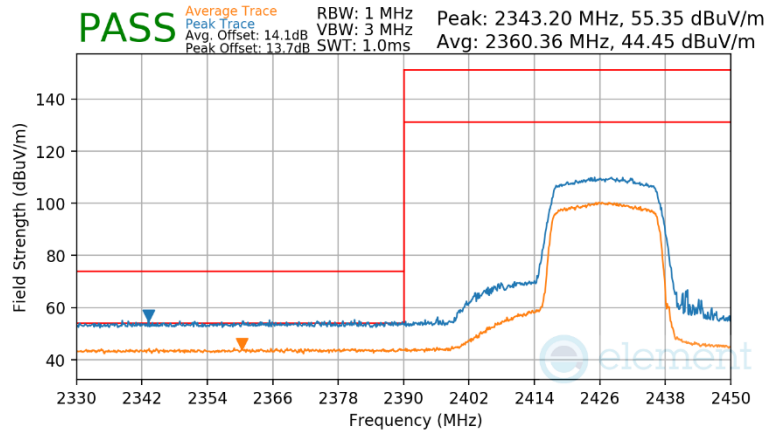


Plot 7-309 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 201 of 225

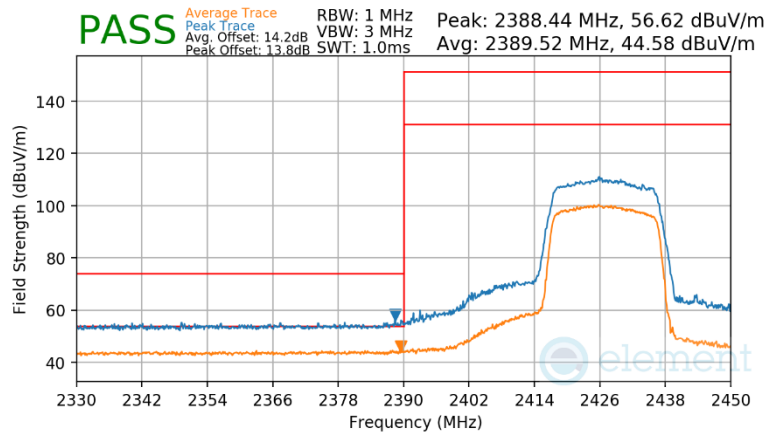
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2427MHz
Channel	4



Plot 7-310 Radiated Restricted Lower Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2427MHz
Channel	4

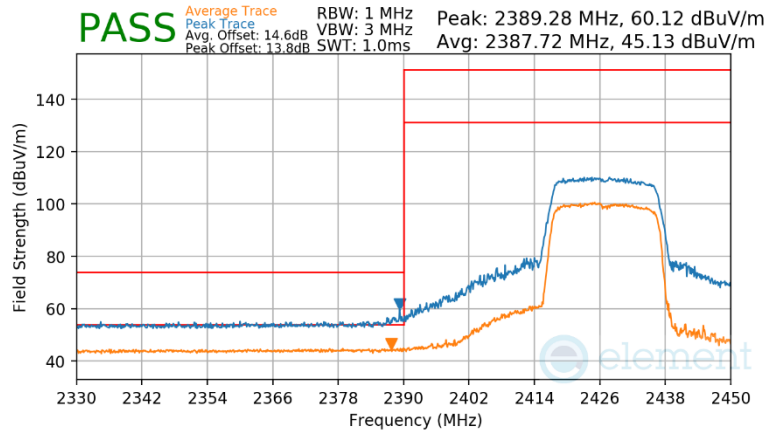


Plot 7-311 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 202 of 225

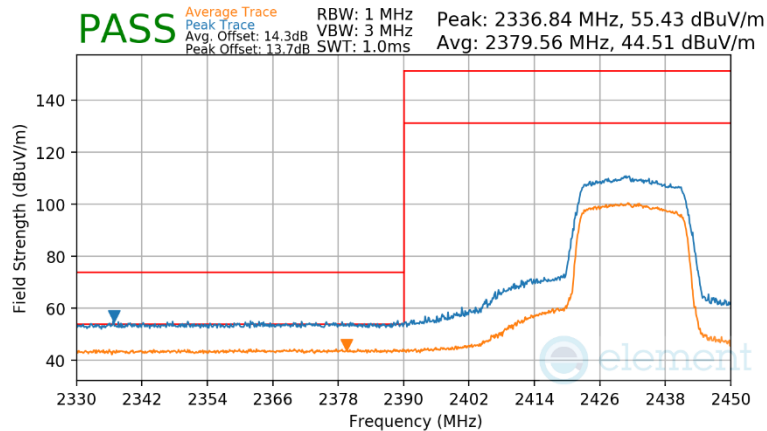
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2427MHz
Channel	4



Plot 7-312 Radiated Restricted Lower Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2432MHz
Channel	5

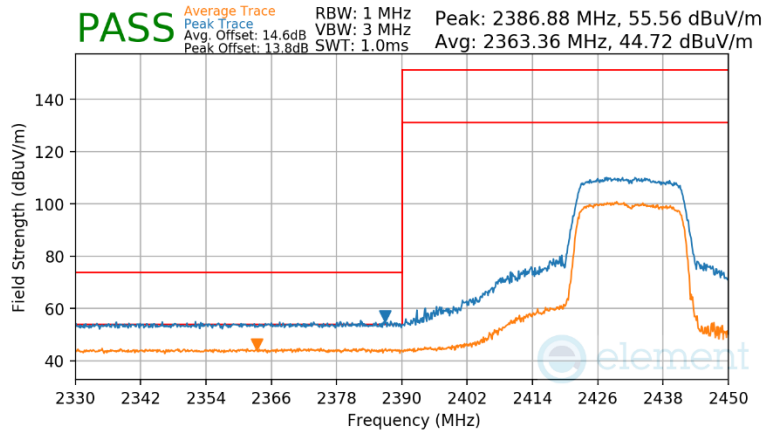


Plot 7-313 Radiated Restricted Lower Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 203 of 225

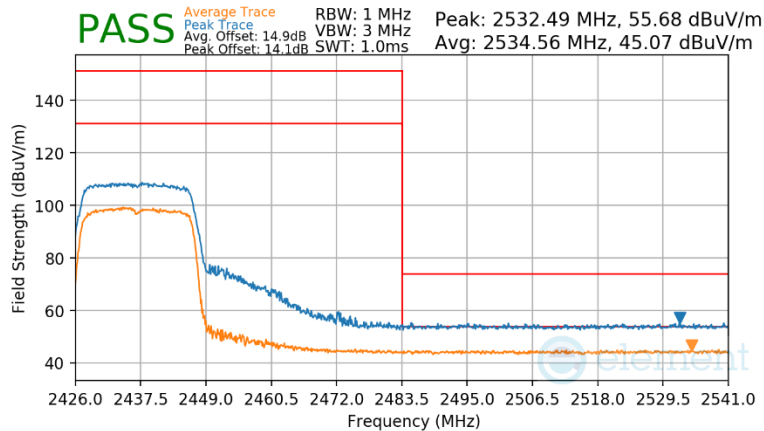
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2432MHz
Channel	5



Plot 7-314 Radiated Restricted Lower Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2437MHz
Channel	6

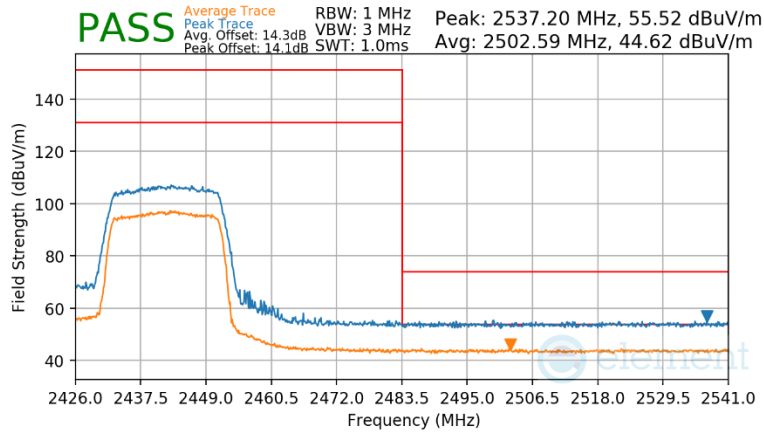


Plot 7-315 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 204 of 225

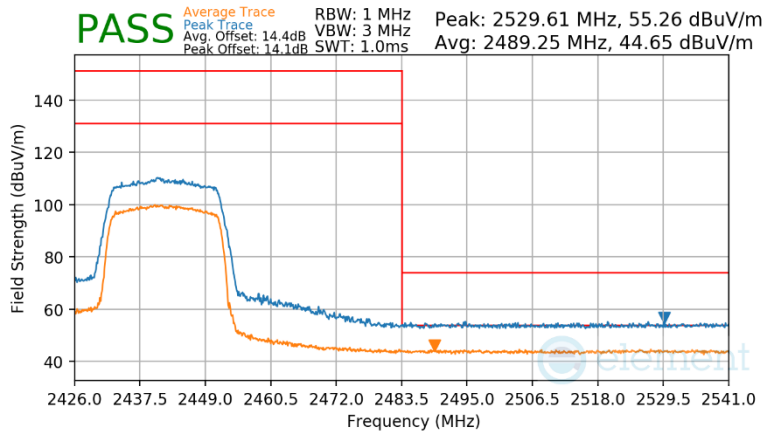
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2442MHz
Channel	7



Plot 7-316 Radiated Restricted Upper Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2442MHz
Channel	7

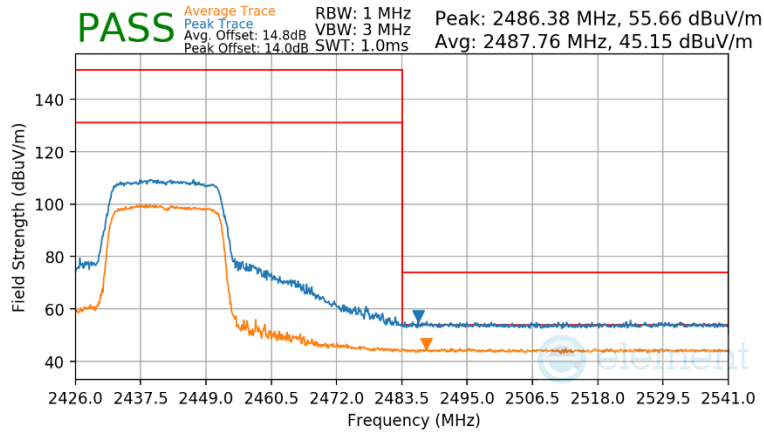


Plot 7-317 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 205 of 225

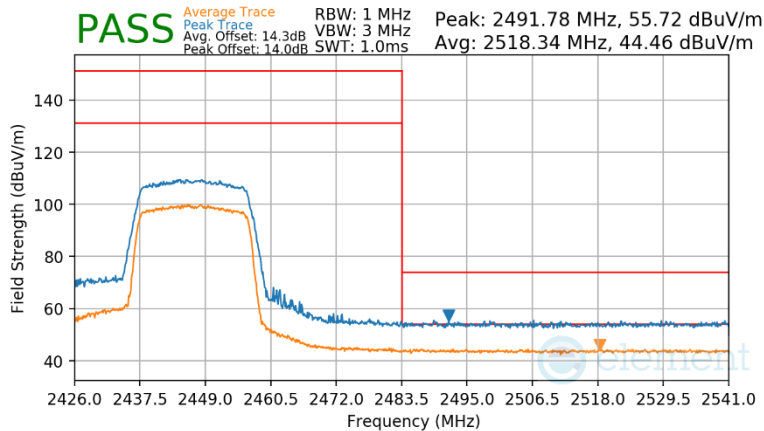
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2442MHz
Channel	7



Plot 7-318 Radiated Restricted Upper Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2447MHz
Channel	8

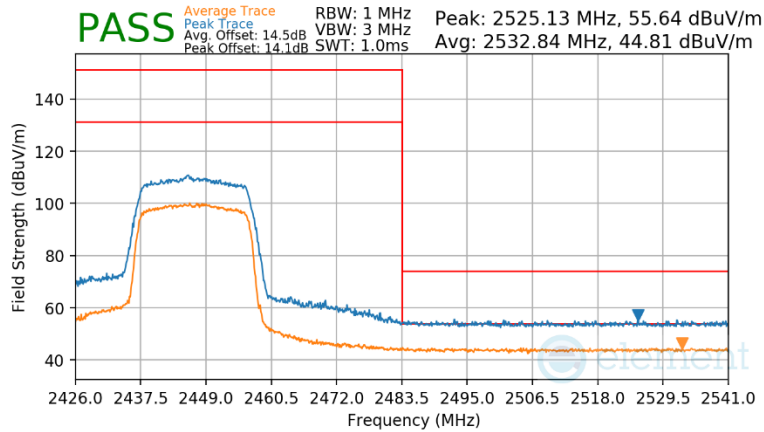


Plot 7-319 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 206 of 225

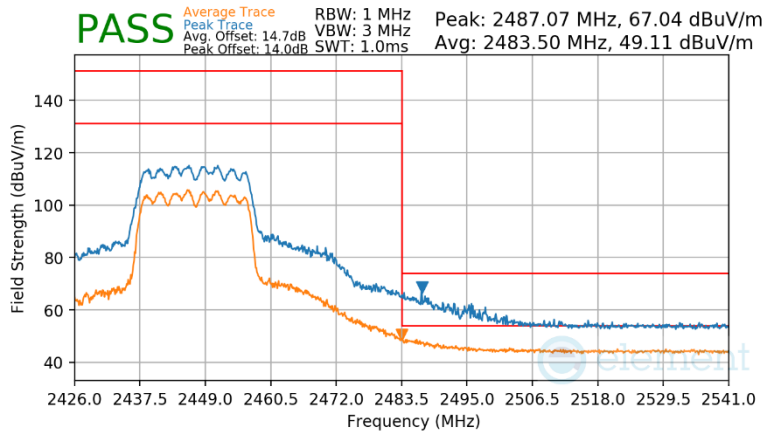
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2447MHz
Channel	8



Plot 7-320 Radiated Restricted Upper Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2447MHz
Channel	8

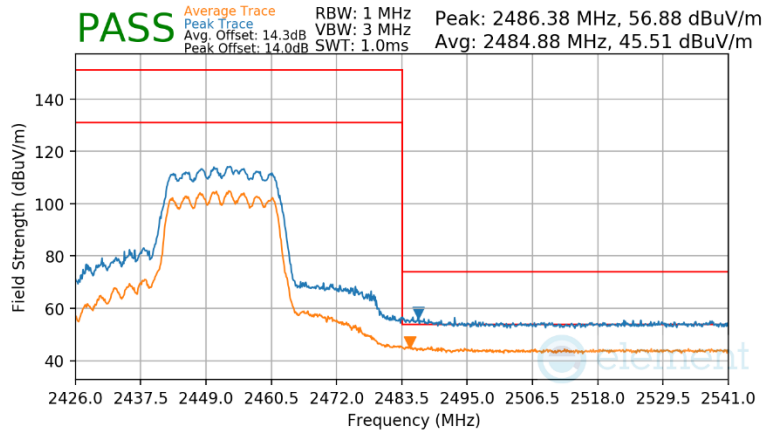


Plot 7-321 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 207 of 225

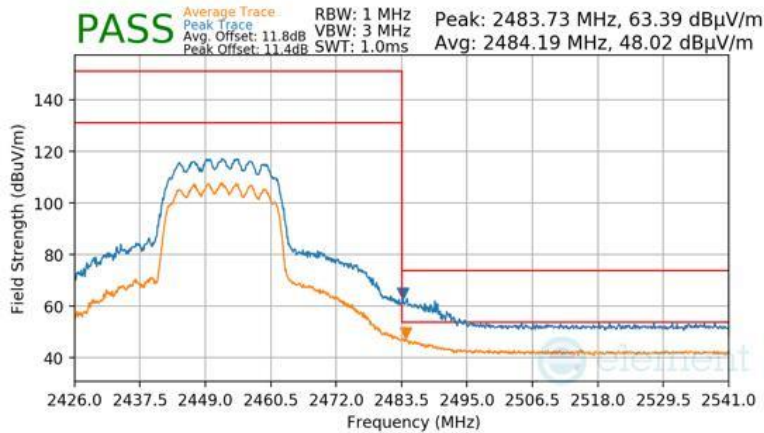
V 10.6 09/14/2023

Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2452MHz
Channel	9



Plot 7-322 Radiated Restricted Upper Band Edge Measurement CDD

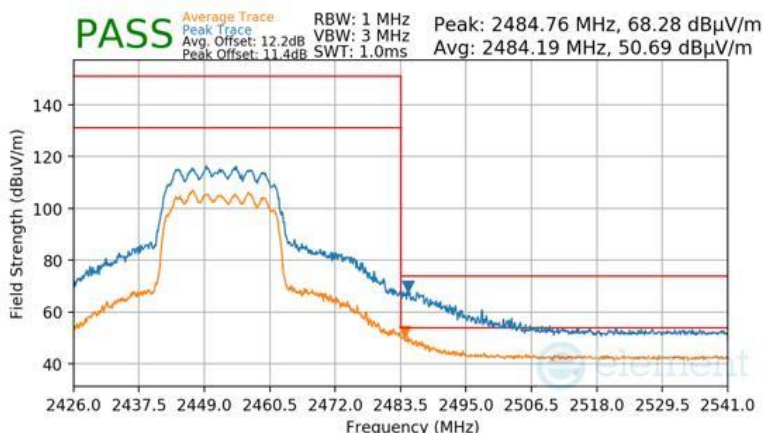
Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2452MHz
Channel	9



Plot 7-323 Radiated Restricted Upper Band Edge Measurement CDD

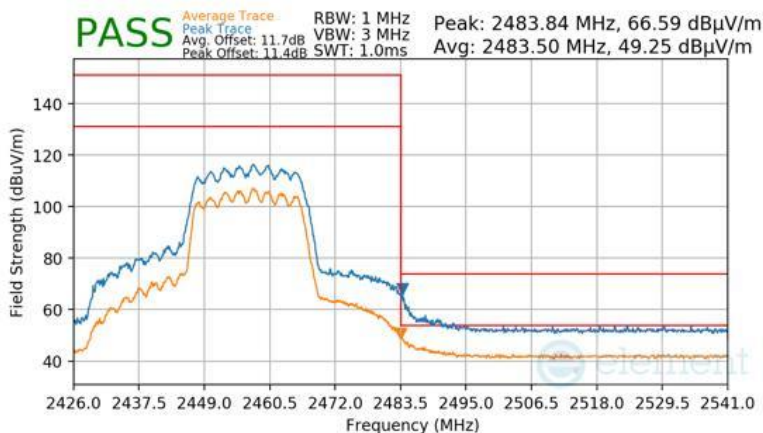
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 208 of 225

Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2452MHz
Channel	9



Plot 7-324 Radiated Restricted Upper Band Edge Measurement CDD

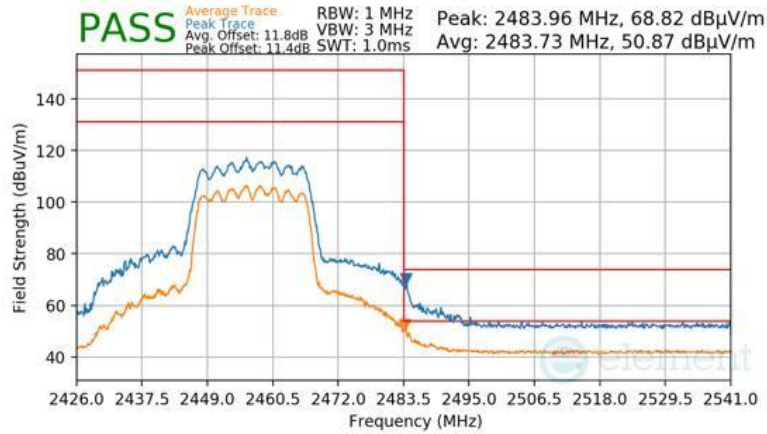
Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2457MHz
Channel	10



Plot 7-325 Radiated Restricted Upper Band Edge Measurement CDD

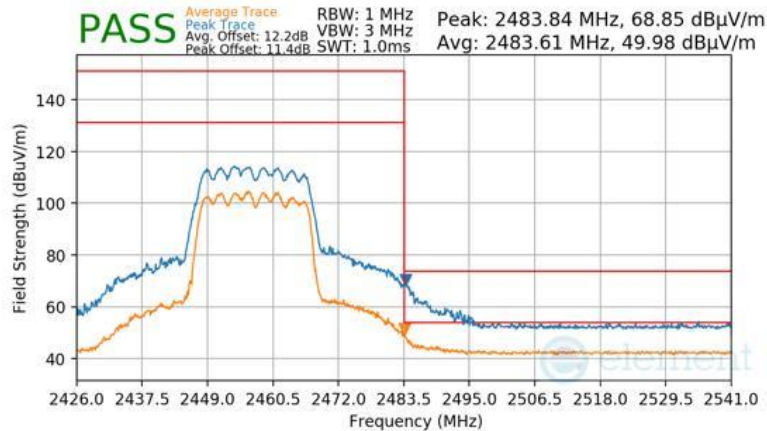
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 209 of 225

Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2457MHz
Channel	10



Plot 7-326 Radiated Restricted Upper Band Edge Measurement CDD

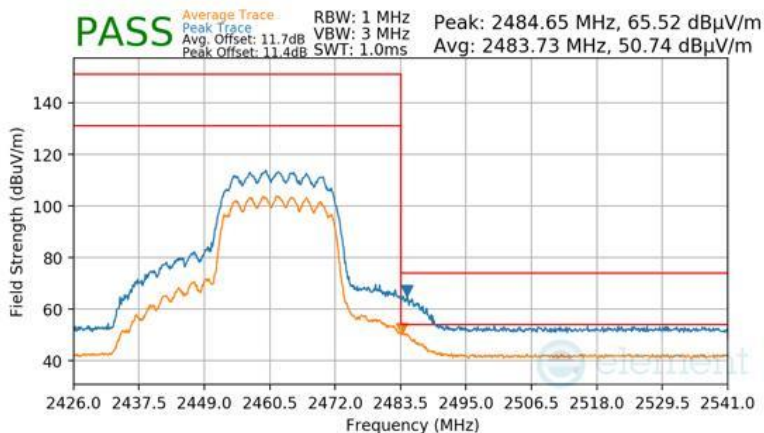
Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2457MHz
Channel	10



Plot 7-327 Radiated Restricted Upper Band Edge Measurement CDD

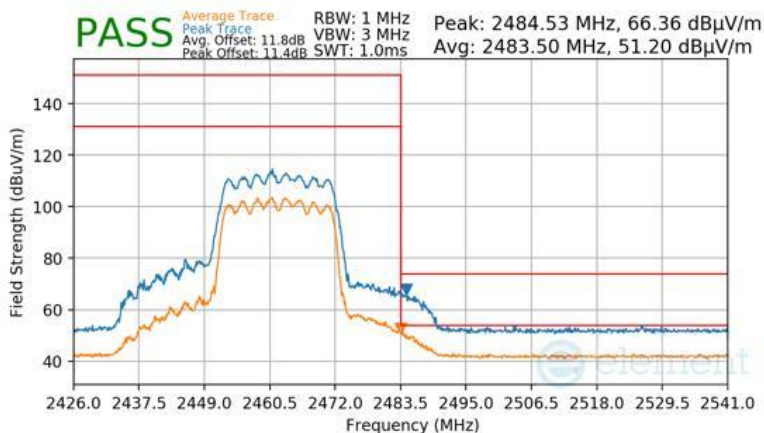
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 210 of 225

Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2462MHz
Channel	11



Plot 7-328 Radiated Restricted Upper Band Edge Measurement CDD

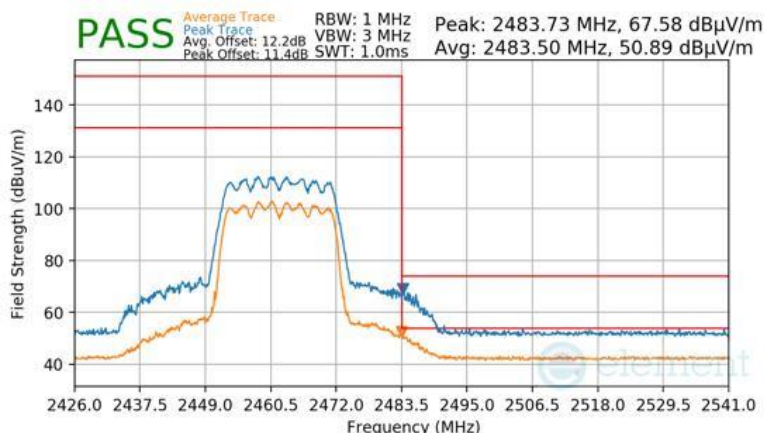
Mode	802.11ax-SU
Data Rate	MCS4
Distance of Measurement	3 Meters
Operating Frequency	2462MHz
Channel	11



Plot 7-329 Radiated Restricted Upper Band Edge Measurement CDD

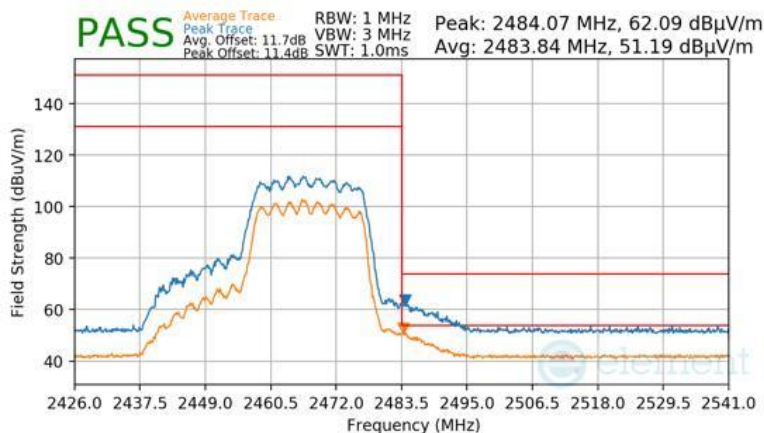
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Mode	802.11ax-SU
Data Rate	MCS9
Distance of Measurement	3 Meters
Operating Frequency	2462MHz
Channel	11



Plot 7-330 Radiated Restricted Upper Band Edge Measurement CDD

Mode	802.11ax-SU
Data Rate	MCS2
Distance of Measurement	3 Meters
Operating Frequency	2467MHz
Channel	12



Plot 7-331 Radiated Restricted Upper Band Edge Measurement CDD

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-04.BCG	Test Dates: 05/10/2025 - 09/12/2025	EUT Type: Head Mounted Device	Page 212 of 225

7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-42 per Section 15.209 and RSS-Gen (8.9).

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 7-42. 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

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Test Setup

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

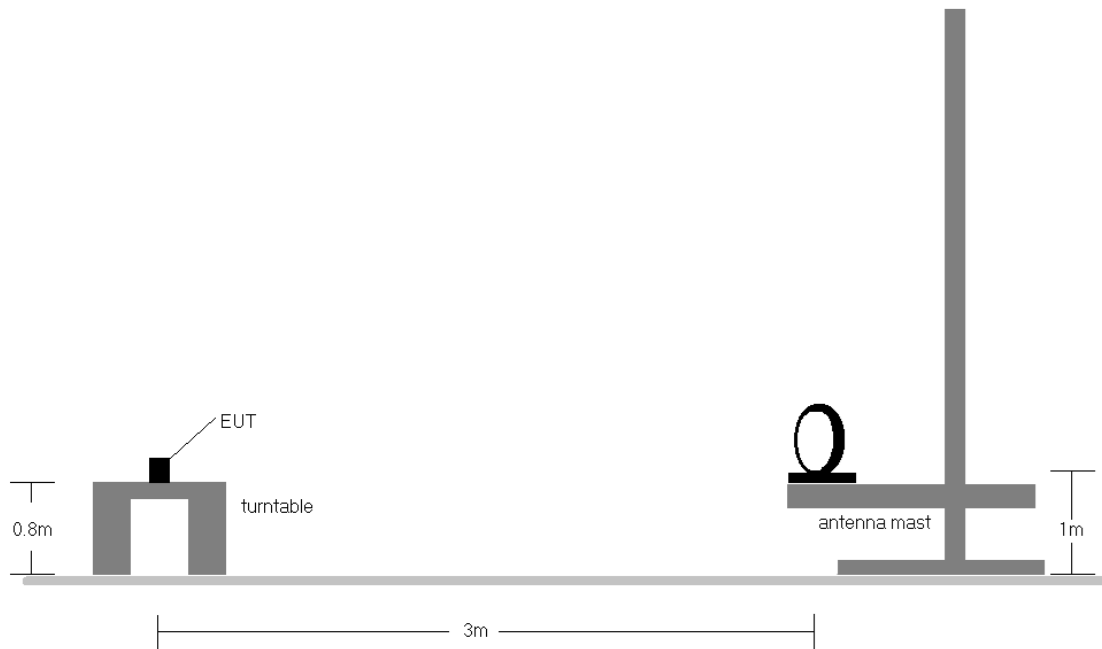


Figure 7-7. Radiated Test Setup < 30Mhz

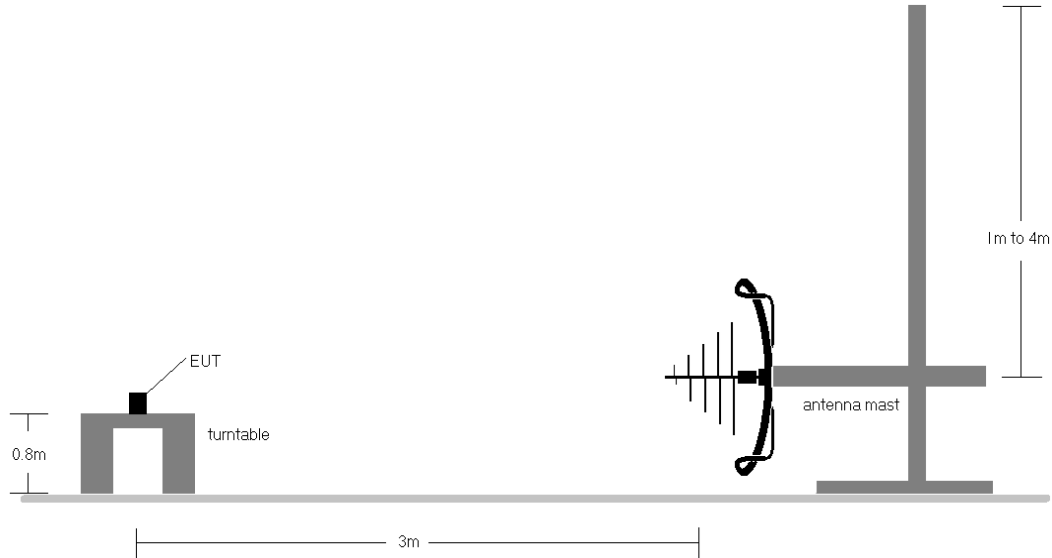


Figure 7-8. Radiated Test Setup < 1GHz

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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 7-42.
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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable
 - b. EUT powered by host PC via USB-C Power Pack to Magnetic Charging Cable
9. 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.
10. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification.
11. The unit was tested with all possible modes and only the highest emission is reported.
12. All antenna configurations were investigated and only the worst case is reported.

Sample Calculations

Determining Spurious Emissions Levels

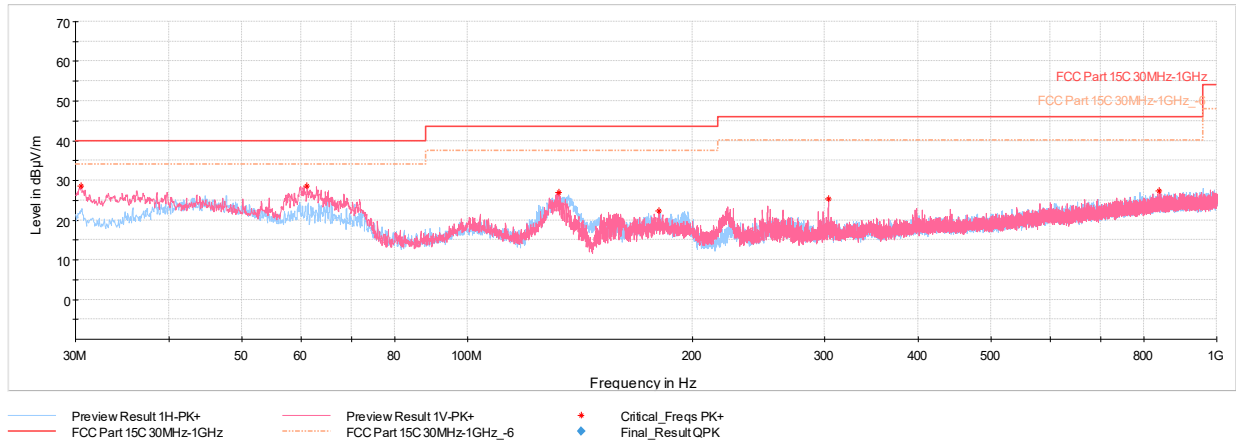
- Field Strength Level $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] - \text{Preamplifier Gain} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field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

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CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



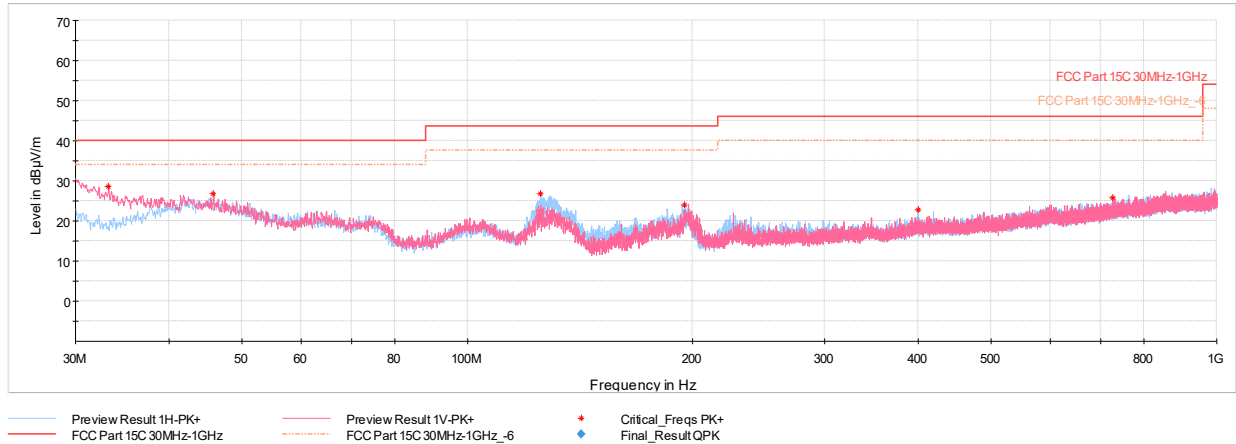
Plot 7-334. Radiated Spurious Emissions below 1GHz CDD 11n Ch.6, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable

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]
30.53	Max Peak	V	100	277	-59.16	-19.33	28.51	40.00	11.49
61.09	Max Peak	V	300	3	-61.02	-17.46	28.52	40.00	11.48
132.43	Max Peak	V	100	2	-58.92	-21.20	26.88	43.52	16.64
180.30	Max Peak	V	100	0	-65.06	-19.59	22.35	43.52	21.17
303.10	Max Peak	V	100	0	-66.22	-15.46	25.32	46.02	20.70
837.33	Max Peak	V	300	230	-74.63	-4.91	27.46	46.02	18.56

Table 7-43. Radiated Spurious Emissions below 1GHz CDD 11n Ch.6, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable

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Plot 7-335. Radiated Spurious Emissions below 1GHz CDD 11ax - SU Ch.6, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable

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]
33.20	Max Peak	V	100	357	-59.39	-19.11	28.50	40.00	11.50
45.81	Max Peak	H	100	11	-64.87	-15.41	26.72	40.00	13.28
125.30	Max Peak	H	300	239	-59.64	-20.52	26.84	43.52	16.68
194.95	Max Peak	H	100	275	-65.15	-17.79	24.06	43.52	19.46
399.18	Max Peak	H	300	69	-71.56	-12.72	22.72	46.02	23.30
726.32	Max Peak	V	300	129	-74.15	-7.00	25.85	46.02	20.17

Table 7-44. Radiated Spurious Emissions below 1GHz CDD 11ax - SU Ch.6, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.9 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. 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 7-45. 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.

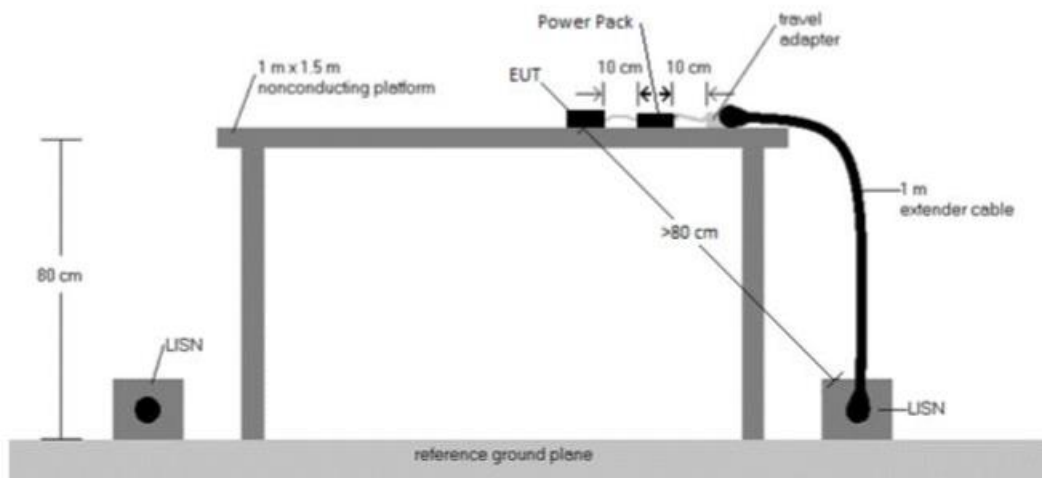


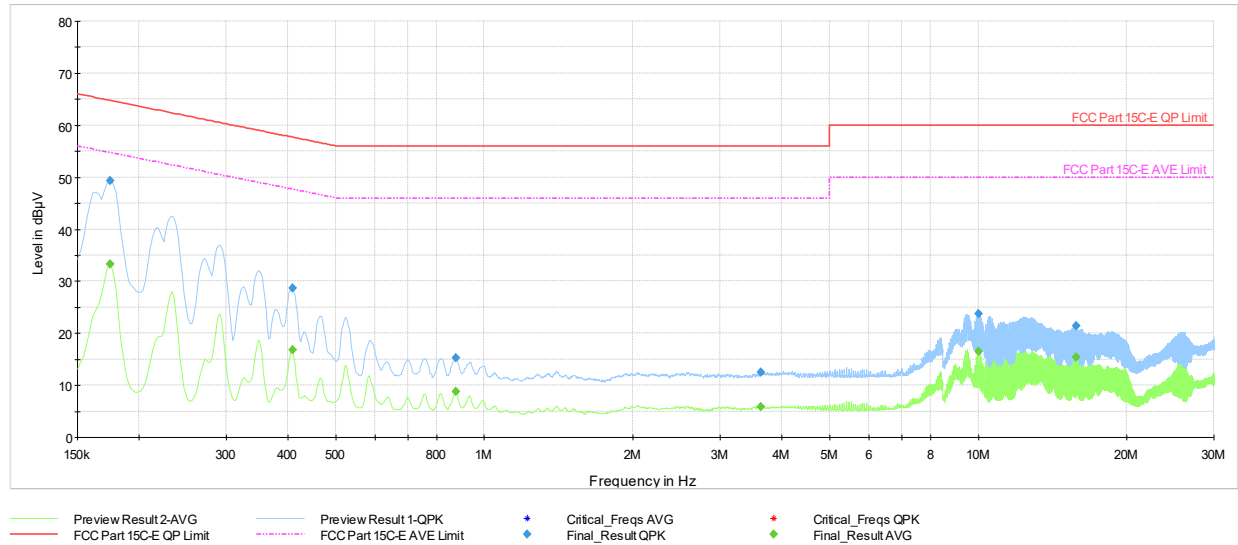
Figure 7-9. Test Instrument & Measurement Setup

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 Power Pack to Magnetic Charging Cable
 - b. EUT powered by host PC via USB-C Power Pack to Magnetic Charging Cable
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plot 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.

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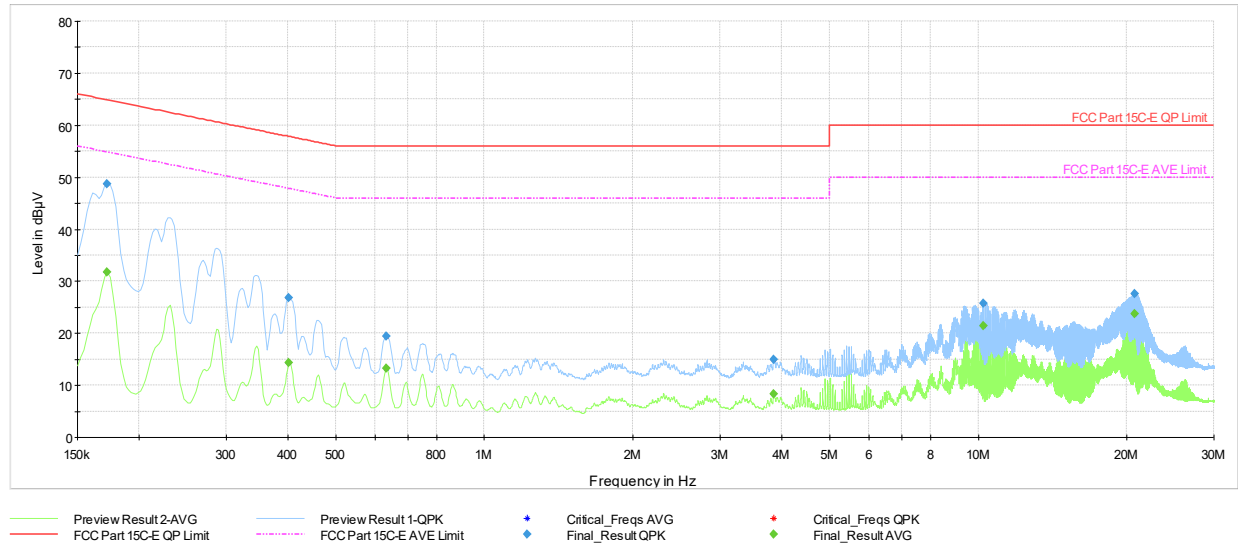


Plot 7-336. AC Line Conducted Plot with CDD 11n Ch.6 (L1, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.175	FINAL	—	33.35	54.73	-21.38	L1	GND
0.175	FINAL	49.3	—	64.73	-15.47	L1	GND
0.409	FINAL	—	16.86	47.67	-30.82	L1	GND
0.409	FINAL	28.6	—	57.67	-29.05	L1	GND
0.875	FINAL	—	8.71	46.00	-37.29	L1	GND
0.875	FINAL	15.3	—	56.00	-40.70	L1	GND
3.633	FINAL	12.6	—	56.00	-43.44	L1	GND
3.633	FINAL	—	5.84	46.00	-40.16	L1	GND
10.023	FINAL	23.7	—	60.00	-36.28	L1	GND
10.023	FINAL	—	16.49	50.00	-33.51	L1	GND
15.785	FINAL	—	15.45	50.00	-34.55	L1	GND
15.785	FINAL	21.4	—	60.00	-38.56	L1	GND

Table 7-46. AC Line Conducted Data with CDD 11n Ch.6 (L1, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-337. AC Line Conducted Plot with CDD 11n Ch.6 (N, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

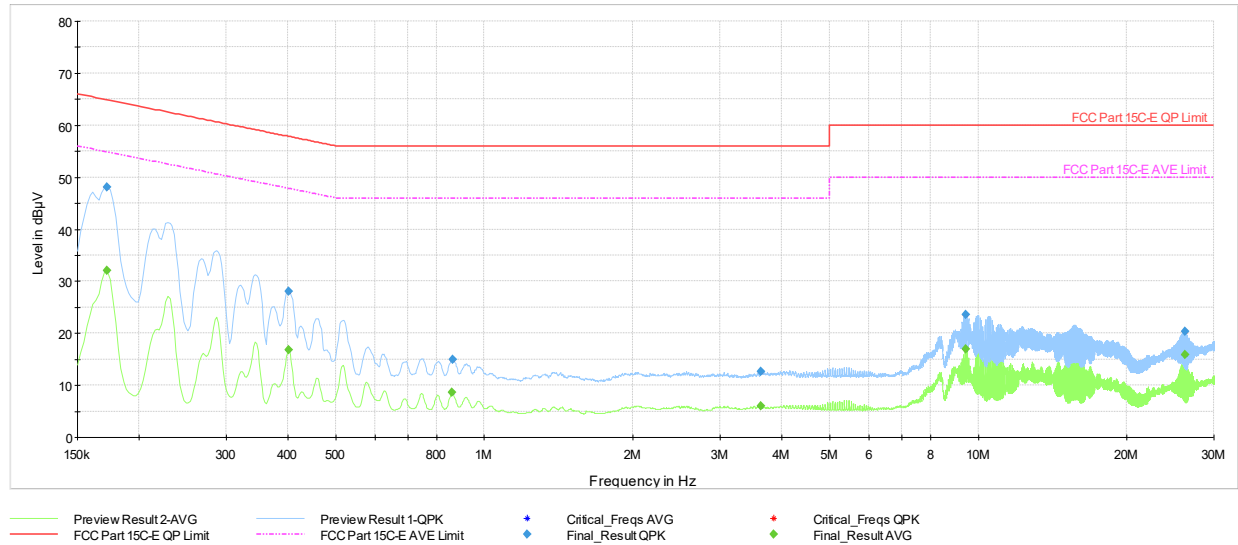
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.173	FINAL	—	31.70	54.84	-23.14	N	GND
0.173	FINAL	48.8	—	64.84	-16.06	N	GND
0.402	FINAL	—	14.34	47.81	-33.47	N	GND
0.402	FINAL	26.8	—	57.81	-31.03	N	GND
0.634	FINAL	—	13.25	46.00	-32.75	N	GND
0.634	FINAL	19.5	—	56.00	-36.55	N	GND
3.860	FINAL	15.0	—	56.00	-41.03	N	GND
3.860	FINAL	—	8.26	46.00	-37.74	N	GND
10.255	FINAL	25.7	—	60.00	-34.30	N	GND
10.257	FINAL	—	21.45	50.00	-28.55	N	GND
20.742	FINAL	27.5	—	60.00	-32.46	N	GND
20.744	FINAL	—	23.76	50.00	-26.24	N	GND

Table 7-47. AC Line Conducted Data with CDD 11n Ch.6 (N, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-338. AC Line Conducted Plot with CDD 11ax - SU Ch.6 (L1, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

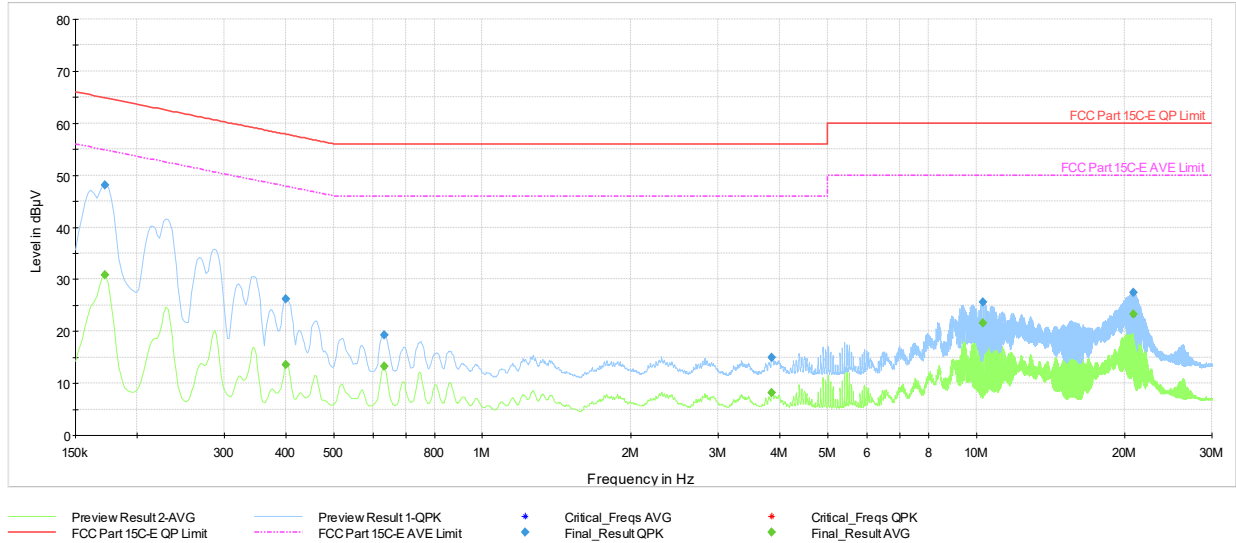
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.173	FINAL	—	32.00	54.84	-22.83	L1	GND
0.173	FINAL	48.1	—	64.84	-16.71	L1	GND
0.402	FINAL	—	16.73	47.81	-31.08	L1	GND
0.402	FINAL	28.1	—	57.81	-29.72	L1	GND
0.861	FINAL	—	8.59	46.00	-37.41	L1	GND
0.863	FINAL	14.9	—	56.00	-41.08	L1	GND
3.624	FINAL	12.6	—	56.00	-43.43	L1	GND
3.626	FINAL	—	5.98	46.00	-40.02	L1	GND
9.447	FINAL	—	16.92	50.00	-33.08	L1	GND
9.449	FINAL	23.6	—	60.00	-36.42	L1	GND
26.216	FINAL	—	15.85	50.00	-34.15	L1	GND
26.216	FINAL	20.4	—	60.00	-39.59	L1	GND

Table 7-48. AC Line Conducted Data with CDD 11ax - SU Ch.6 (L1, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-339. AC Line Conducted Plot with CDD 11ax - SU Ch.6 (N, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.173	FINAL	—	30.84	54.84	-24.00	N	GND
0.173	FINAL	48.1	—	64.84	-16.77	N	GND
0.400	FINAL	—	13.58	47.86	-34.28	N	GND
0.400	FINAL	26.2	—	57.86	-31.69	N	GND
0.634	FINAL	—	13.23	46.00	-32.77	N	GND
0.634	FINAL	19.3	—	56.00	-36.68	N	GND
3.858	FINAL	15.0	—	56.00	-41.05	N	GND
3.858	FINAL	—	8.20	46.00	-37.80	N	GND
10.311	FINAL	25.5	—	60.00	-34.48	N	GND
10.311	FINAL	—	21.51	50.00	-28.49	N	GND
20.796	FINAL	—	23.29	50.00	-26.71	N	GND
20.796	FINAL	27.4	—	60.00	-32.60	N	GND

Table 7-49. AC Line Conducted Data with CDD 11ax - SU Ch.6 (N, with AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable)

FCC ID: BCGA3416 IC: 579C-A3416		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 Head Mounted Device FCC ID: BCGA3416, IC: 579C-A3416** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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