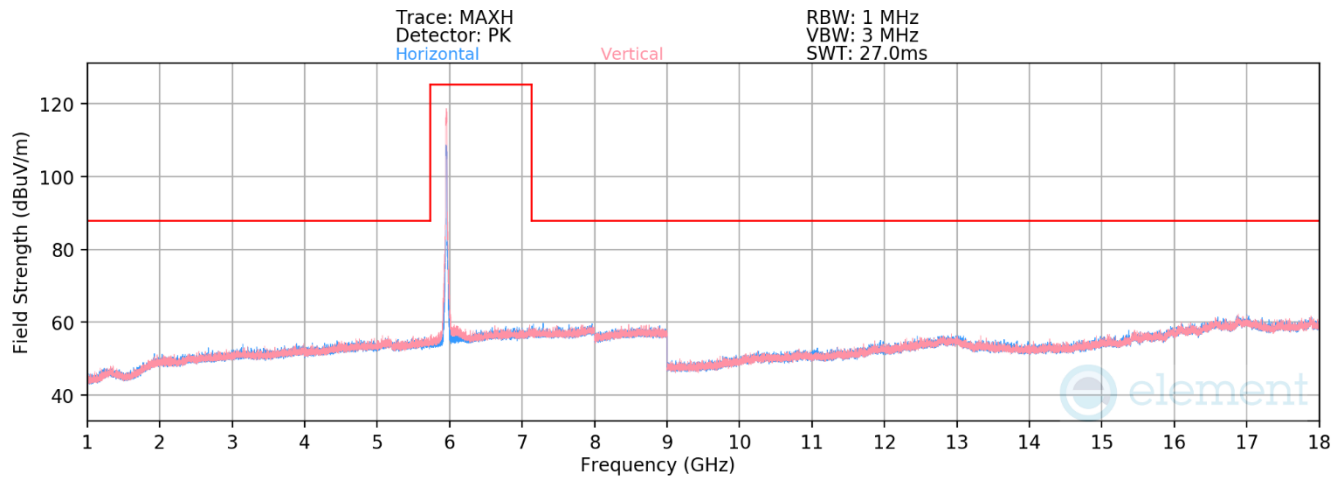


7.7.1 CDD Radiated Spurious Emission



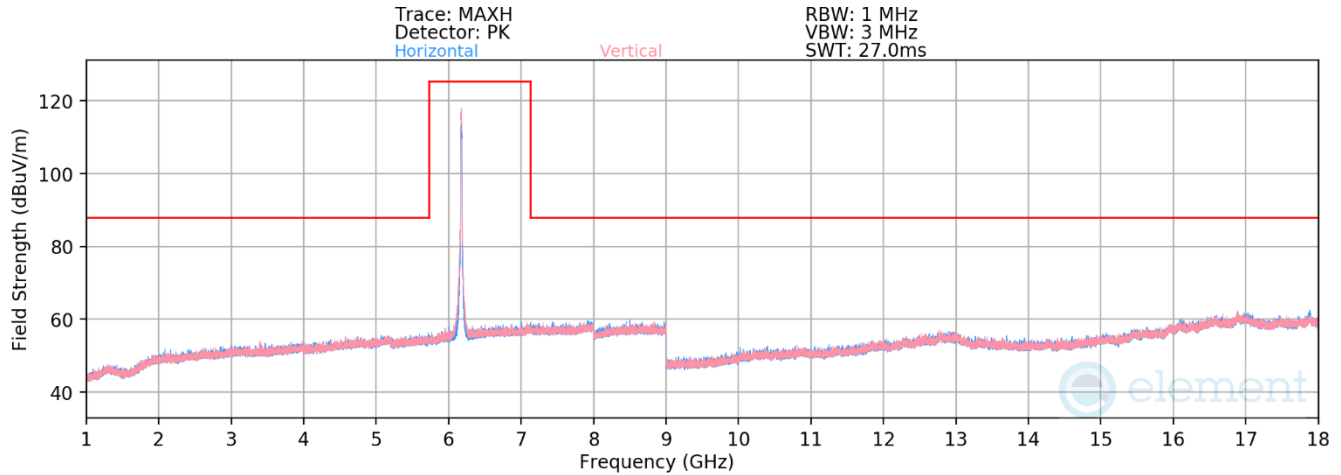
Plot 7-318. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 1)

Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 5955MHz
Channel: 1

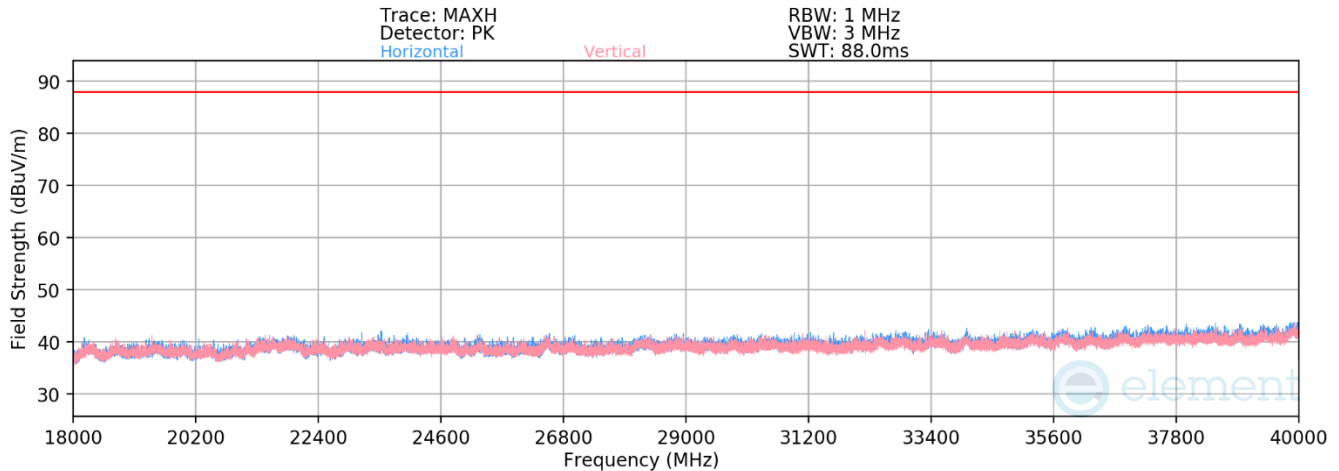
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11910.00	Average	V	-	-	-84.71	20.43	42.73	53.98	-11.25
* 11910.00	Peak	V	-	-	-74.10	20.34	53.25	73.98	-20.73
* 17865.00	Average	H	-	-	-85.51	25.68	47.16	53.98	-6.82
* 17865.00	Peak	H	-	-	-74.09	25.73	58.64	73.98	-15.34

Table 7-46. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 141 of 192



Plot 7-319. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 45)



Plot 7-320. Radiated Spurious Emissions 18-40GHz CDD (802.11ax – Ch. 45)

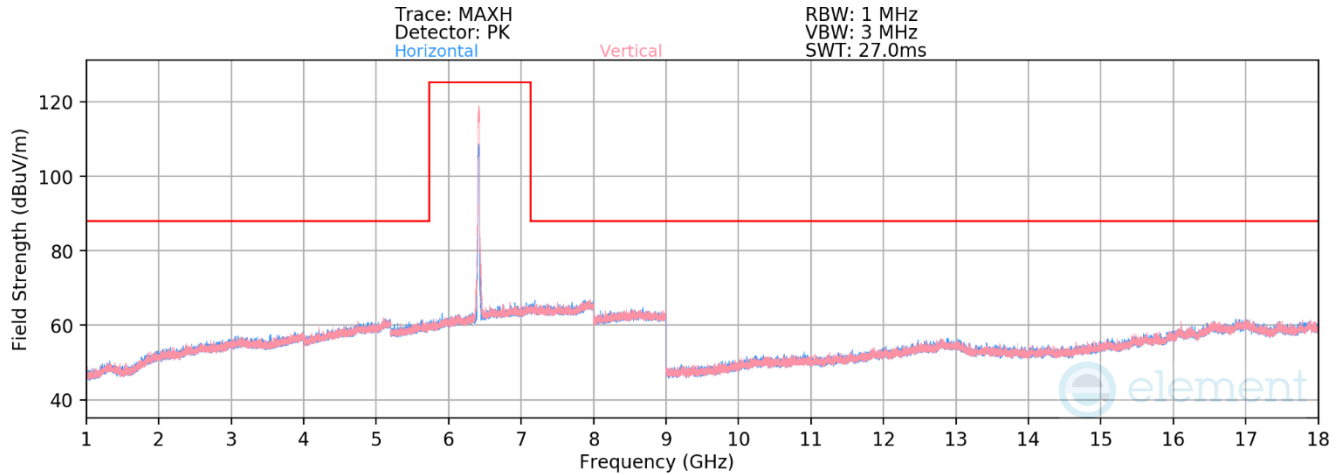
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 142 of 192

Mode: 802.11ax
 Data Rate: MCS2
 Distance of Measurements: 3 Meters
 Operating Frequency: 6175MHz
 Channel: 45

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 12350.00	Average	V	-	-	-85.15	20.94	0.00	42.79	53.98	-11.19
* 12350.00	Peak	V	-	-	-74.16	21.21	0.00	54.04	73.98	-19.94
* 18525.00	Average	H	-	-	-61.66	-6.16	-9.54	29.64	53.98	-24.34
* 18525.00	Peak	H	-	-	-50.20	-6.16	-9.54	41.10	73.98	-32.88
24700.00	Average	H	-	-	-63.92	-3.23	-9.54	30.31	68.23	-37.92
24700.00	Peak	H	-	-	-52.09	-3.23	-9.54	42.14	88.23	-46.09
30875.00	Average	V	-	-	-60.72	-5.14	-9.54	31.60	68.23	-36.63
30875.00	Peak	V	-	-	-49.42	-5.14	-9.54	42.90	88.23	-45.33

Table 7-47. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 143 of 192



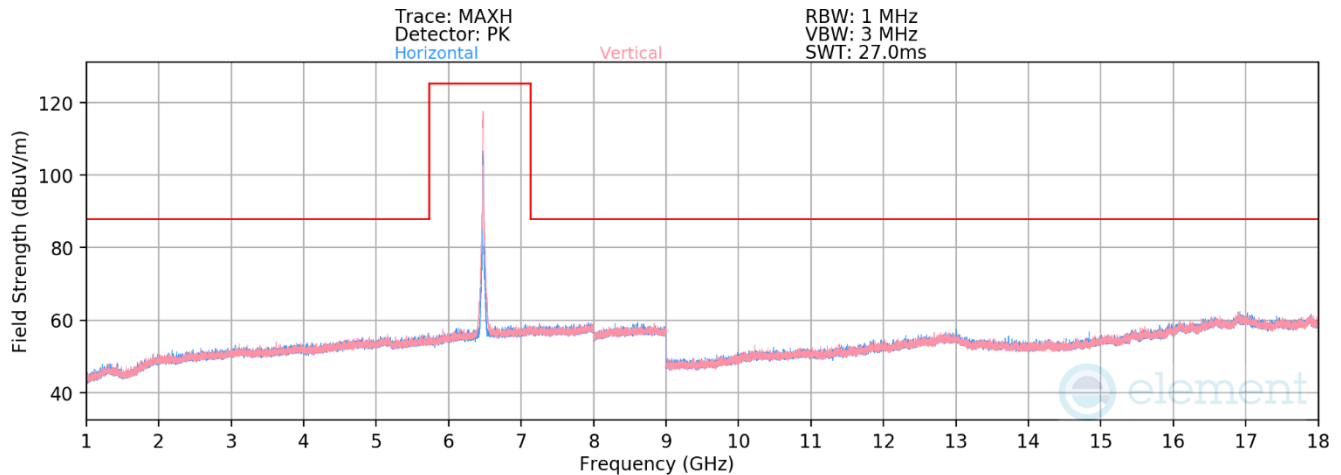
Plot 7-321. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 45)

Mode: 802.11ax
Data Rate: MCS2
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12830.00	Average	V	-	-	-84.33	22.04	44.71	68.23	-23.52
12830.00	Peak	V	-	-	-73.09	21.88	55.79	88.23	-32.44

Table 7-48. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 144 of 192



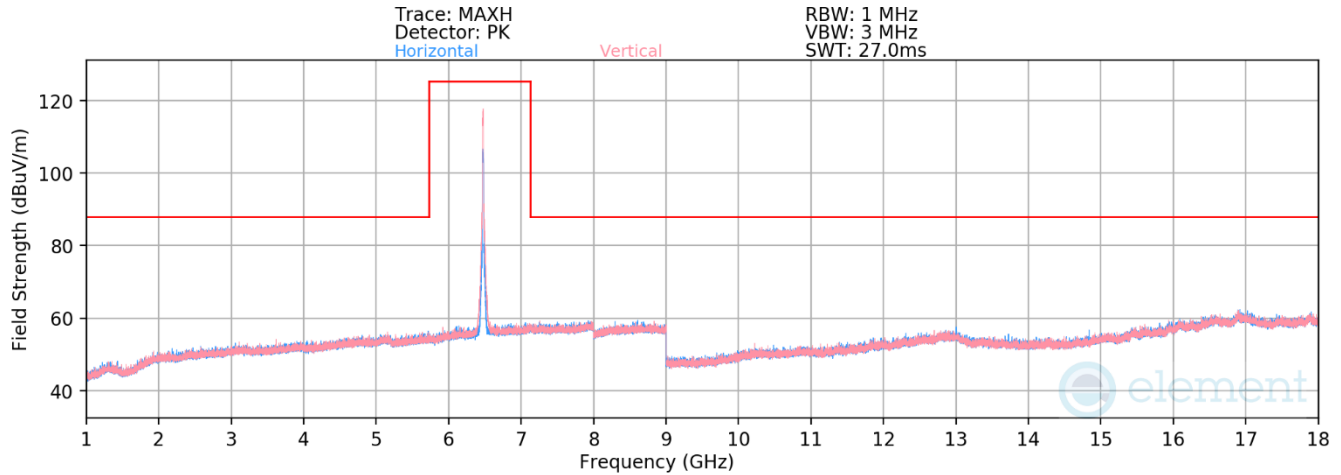
Plot 7-322. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 97)

Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 6435MHz
Channel: 97

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]
12870.00	Average	V	-	-	-84.32	21.65	44.33	68.23	-23.90
12870.00	Peak	V	-	-	-73.21	21.65	55.44	88.23	-32.79

Table 7-49. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 145 of 192



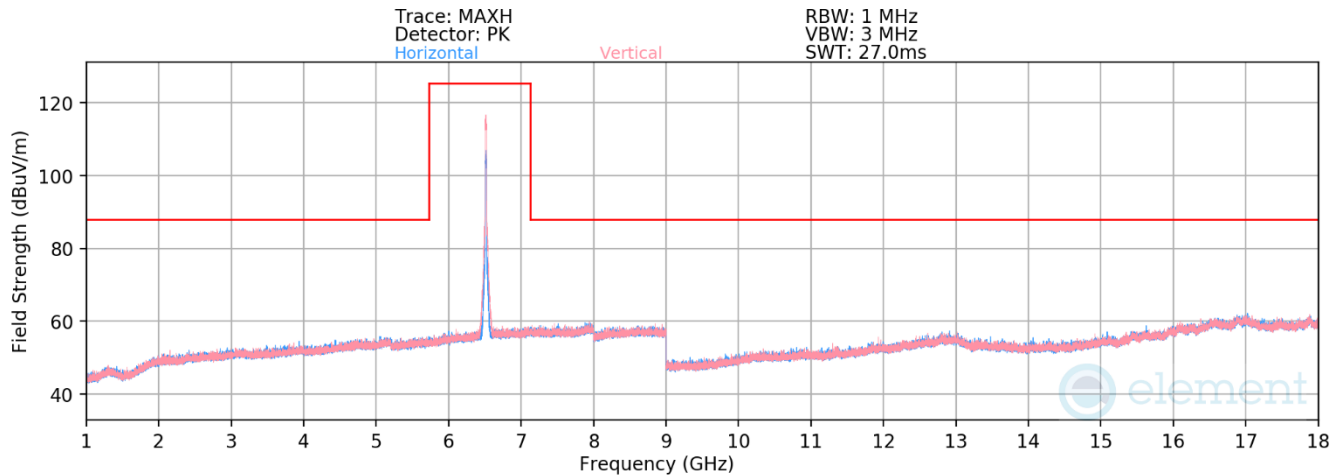
Plot 7-323. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 105)

Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 6475MHz
Channel: 105

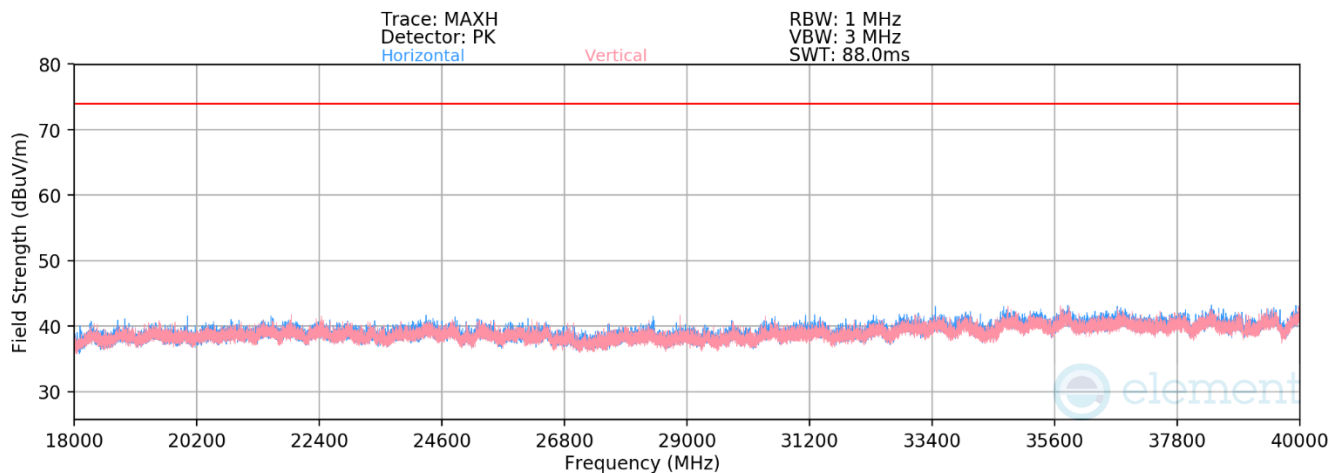
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12950.00	Average	V	-	-	-84.86	21.91	44.05	68.23	-24.18
12950.00	Peak	V	-	-	-73.75	21.91	55.15	88.23	-33.08

Table 7-50. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 146 of 192



Plot 7-324. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 113)



Plot 7-325. Radiated Spurious Emissions 18-40GHz CDD (802.11ax – Ch. 113)

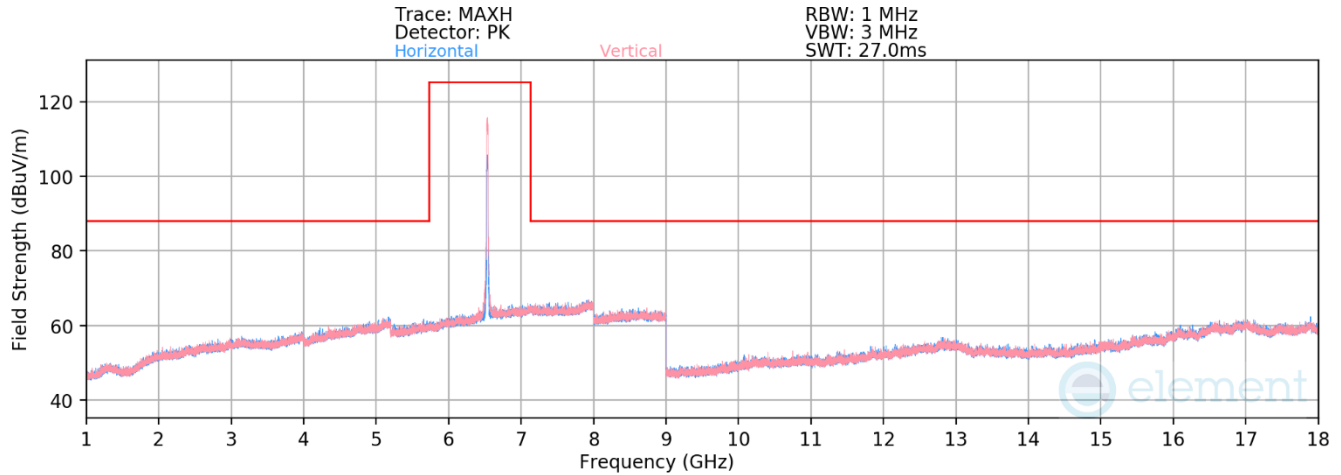
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 147 of 192

Mode: 802.11ax
 Data Rate: MCS2
 Distance of Measurements: 3 Meters
 Operating Frequency: 6515MHz
 Channel: 113

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13030.00	Average	V	-	-	-84.92	22.36	0.00	44.44	68.23	-23.79
13030.00	Peak	V	-	-	-73.49	22.36	0.00	55.87	88.23	-32.36
* 19545.00	Average	V	-	-	-61.75	-5.89	-9.54	29.82	53.98	-24.16
* 19545.00	Peak	V	-	-	-50.16	-5.89	-9.54	41.41	73.98	-32.57
26060.00	Average	V	-	-	-62.29	-5.39	-9.54	29.77	68.23	-38.46
26060.00	Peak	V	-	-	-50.79	-5.39	-9.54	41.28	88.23	-46.95
32575.00	Average	V	-	-	-62.76	-3.84	-9.54	30.86	68.23	-37.37
32575.00	Peak	V	-	-	-51.40	-3.84	-9.54	42.22	88.23	-46.01

Table 7-51. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 148 of 192



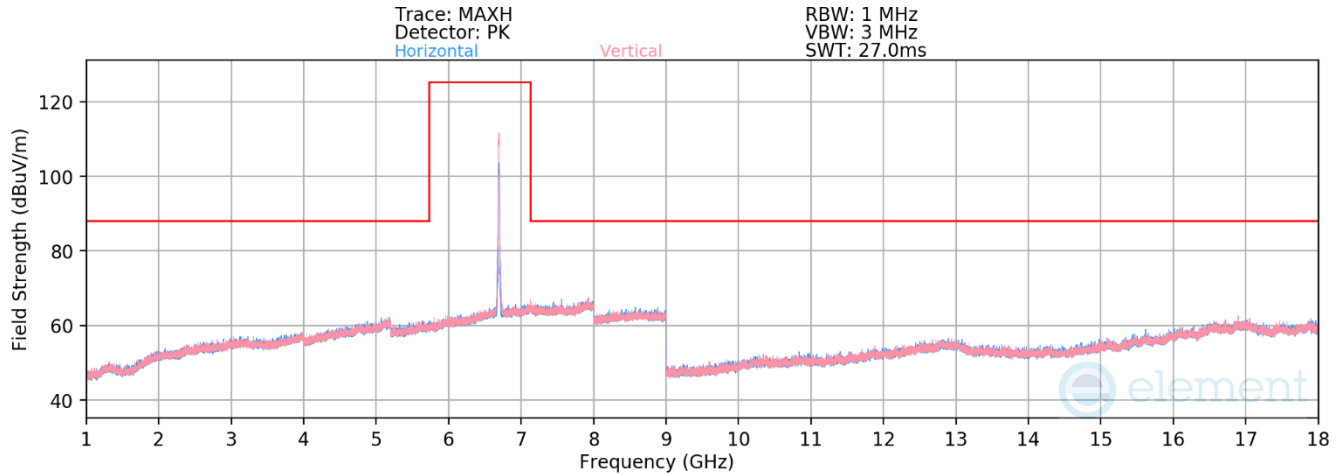
Plot 7-326. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 117)

Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 6535MHz
Channel: 117

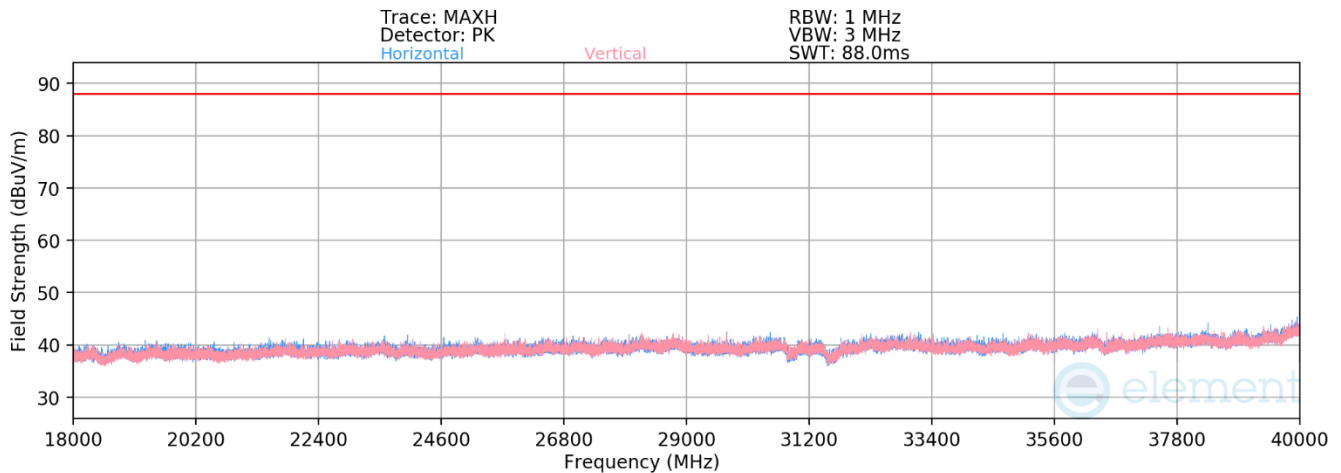
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13070.00	Average	H	-	-	-85.29	21.90	43.62	68.23	-24.61
13070.00	Peak	H	-	-	-74.03	21.90	54.87	88.23	-33.36

Table 7-52. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 149 of 192



Plot 7-327. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 149)



Plot 7-328. Radiated Spurious Emissions 18-40GHz CDD (802.11ax – Ch. 149)

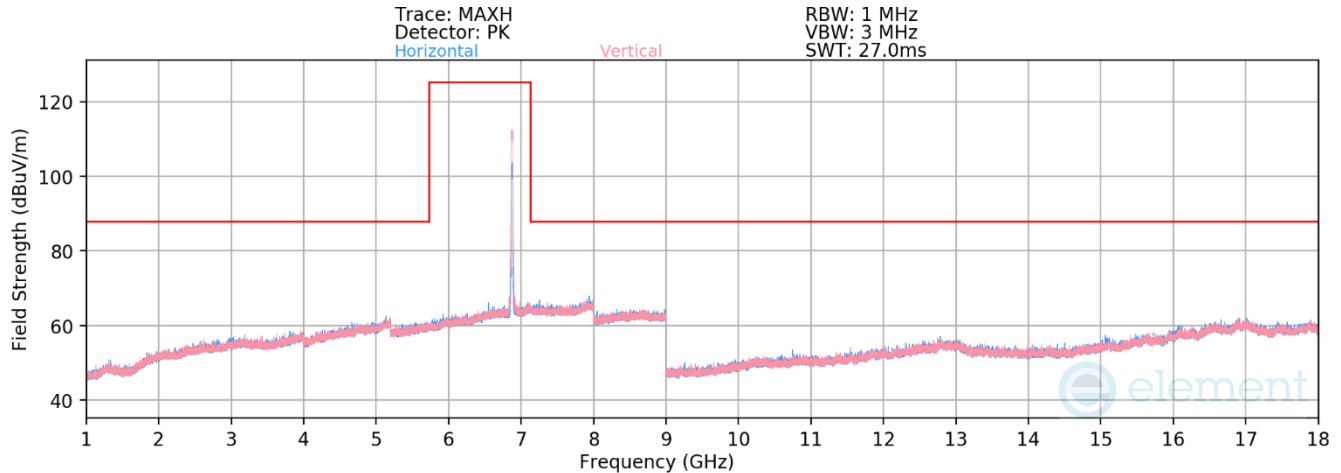
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 150 of 192

Mode: 802.11ax
 Data Rate: MCS2
 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 13390.00	Average	V	-	-	-85.63	21.80	0.00	43.17	53.98	-10.81
* 13390.00	Peak	V	-	-	-74.00	21.99	0.00	54.98	73.98	-19.00
* 20085.00	Average	V	-	-	-61.52	-6.28	-9.54	29.66	53.98	-24.32
* 20085.00	Peak	V	-	-	-50.36	-6.13	-9.54	40.97	73.98	-33.01
26780.00	Average	V	-	-	-62.62	-4.65	-9.54	30.19	68.23	-38.04
26780.00	Peak	V	-	-	-50.83	-4.65	-9.54	41.98	88.23	-46.25
33475.00	Average	V	-	-	-62.23	-4.36	-9.54	30.87	68.23	-37.36
33475.00	Peak	V	-	-	-51.09	-4.26	-9.54	42.12	88.23	-46.11

Table 7-53. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 151 of 192



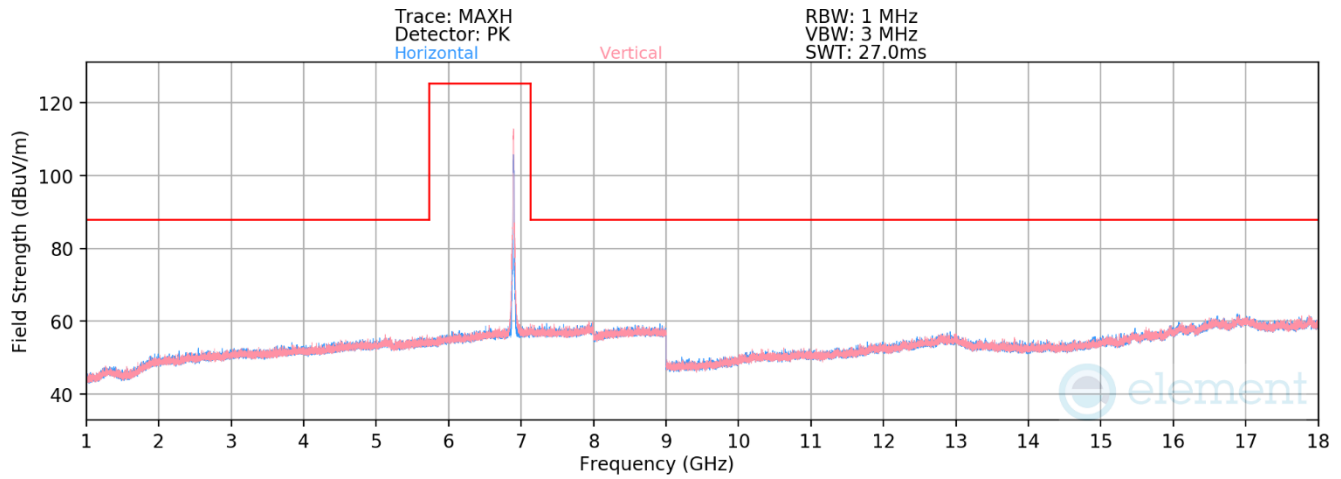
Plot 7-329. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 185)

Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 6875MHz
Channel: 185

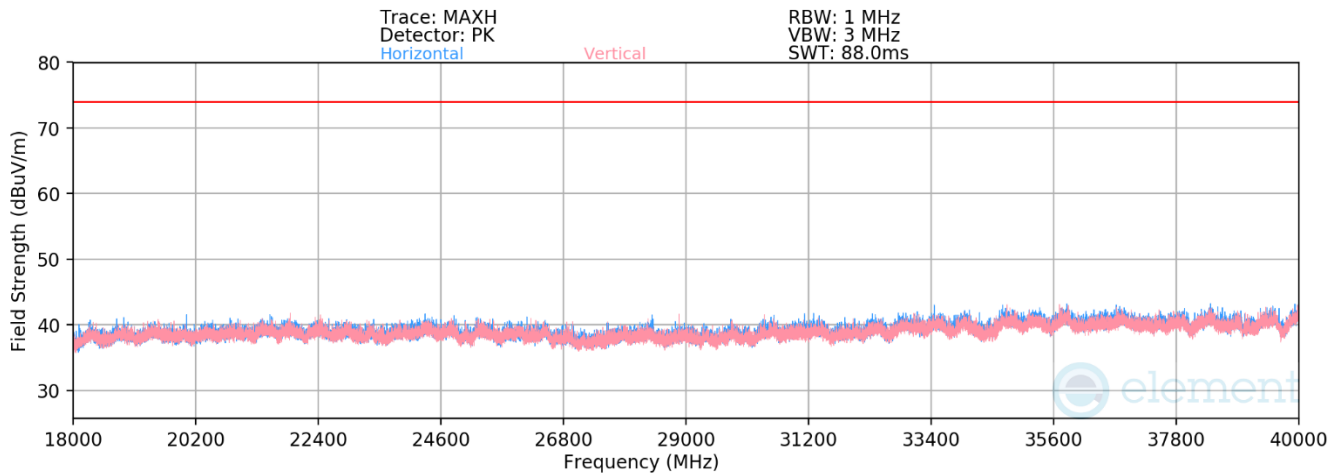
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13750.00	Average	V	-	-	-85.52	21.73	43.21	68.23	-25.02
13750.00	Peak	V	-	-	-74.32	21.70	54.37	88.23	-33.86

Table 7-54. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 152 of 192



Plot 7-330. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 189)



Plot 7-331. Radiated Spurious Emissions 18-40GHz CDD (802.11ax – Ch. 189)

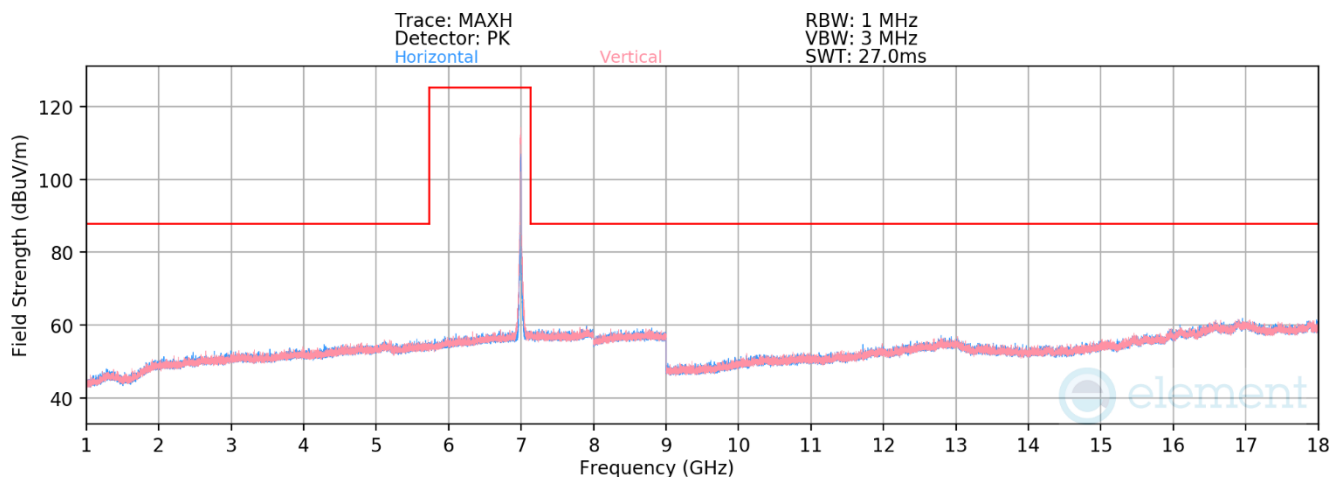
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 153 of 192

Mode: 802.11ax
 Data Rate: MCS2
 Distance of Measurements: 3 Meters
 Operating Frequency: 6895MHz
 Channel: 189

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13790.00	Average	H	-	-	-85.81	21.75	0.00	42.95	68.23	-25.28
13790.00	Peak	H	-	-	-74.75	21.73	0.00	53.98	88.23	-34.25
* 20625.00	Average	H	-	-	-61.79	-6.42	-9.54	29.25	68.23	-38.98
* 20625.00	Peak	H	-	-	-50.31	-6.42	-9.54	40.73	88.23	-47.50
27500.00	Average	H	-	-	-62.93	-3.91	-9.54	30.62	68.23	-37.61
27500.00	Peak	H	-	-	-51.78	-3.91	-9.54	41.77	88.23	-46.46
34375.00	Average	H	-	-	-61.61	-4.82	-9.54	31.04	68.23	-37.19
34375.00	Peak	H	-	-	-50.64	-4.82	-9.54	42.01	88.23	-46.22

Table 7-55. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 154 of 192



Plot 7-332. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 209)

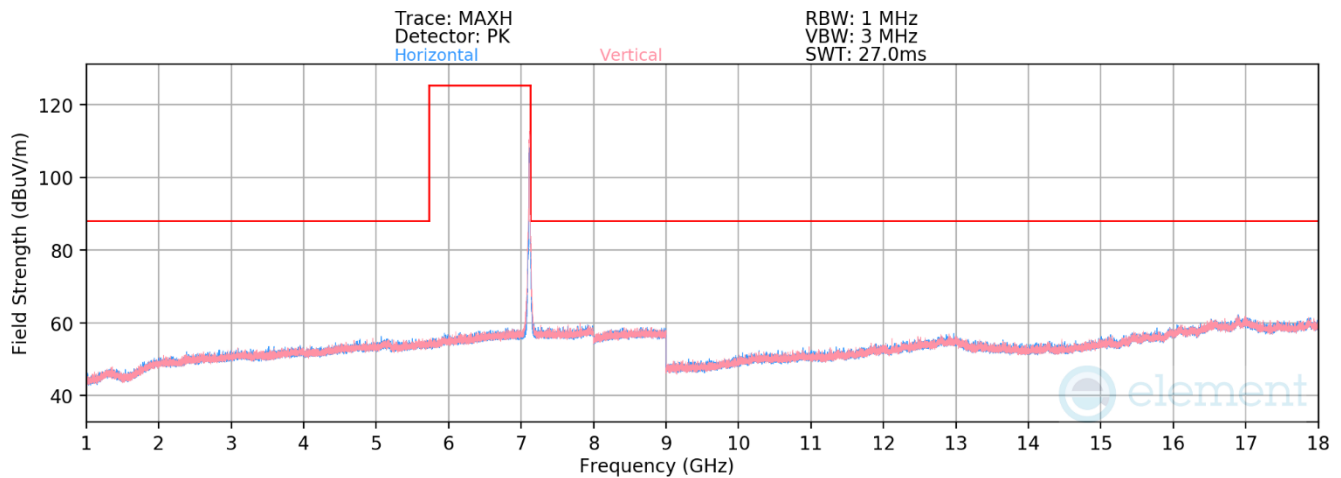
Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 6995MHz
Channel: 209

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]
13990.00	Average	H	-	-	-86.13	22.04	42.91	68.23	-25.32
13990.00	Peak	H	-	-	-75.06	22.05	53.99	88.23	-34.24

Table 7-56. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 155 of 192

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Plot 7-333. Radiated Spurious Emissions above 1GHz CDD (802.11ax – Ch. 233)

Mode: 802.11ax
Data Rate: MCS2
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233

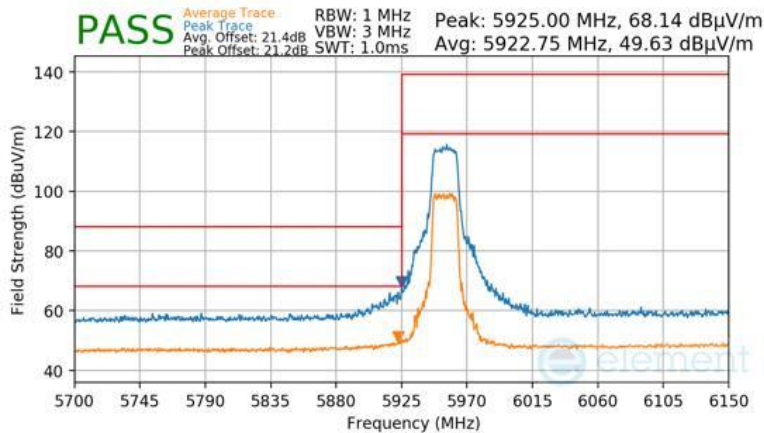
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
14230.00	Average	H	-	-	-86.39	22.72	43.33	68.23	-24.90
14230.00	Peak	H	-	-	-75.41	22.72	54.31	88.23	-33.92

Table 7-57. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 156 of 192

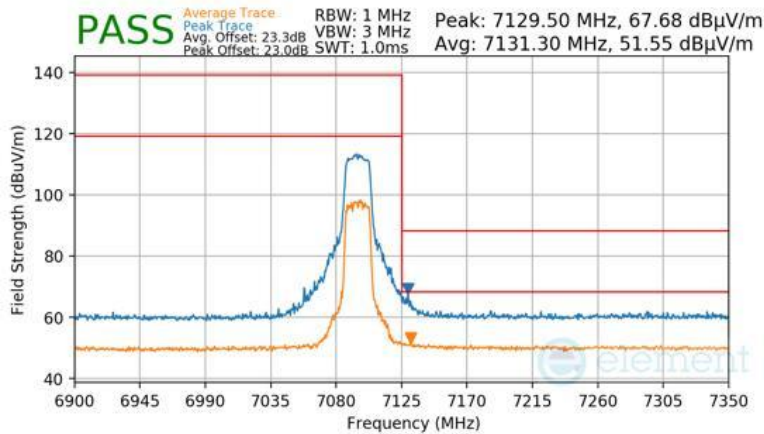
7.7.2 Antenna 0 Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	5955MHz
Channel	1



Plot 7-334 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229

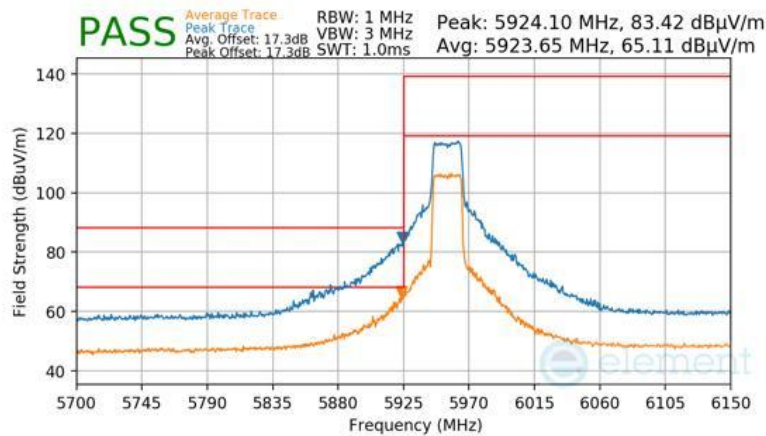


Plot 7-335 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 157 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

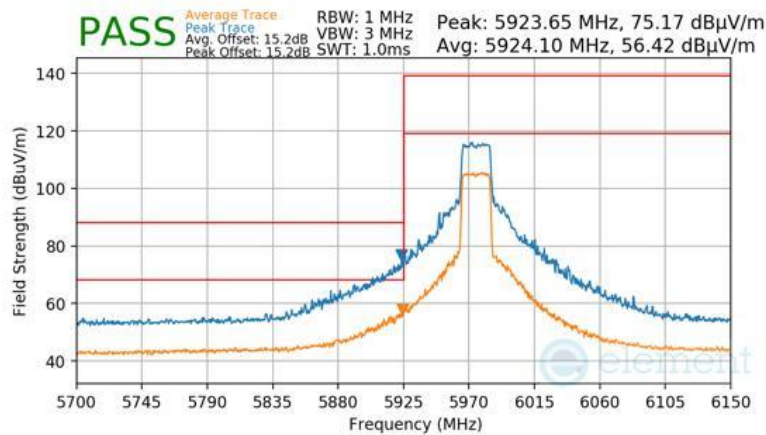
802.11ax-SU
 MCS11
 3 Meters
 5955MHz
 1



Plot 7-336 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS11
 3 Meters
 5975MHz
 5

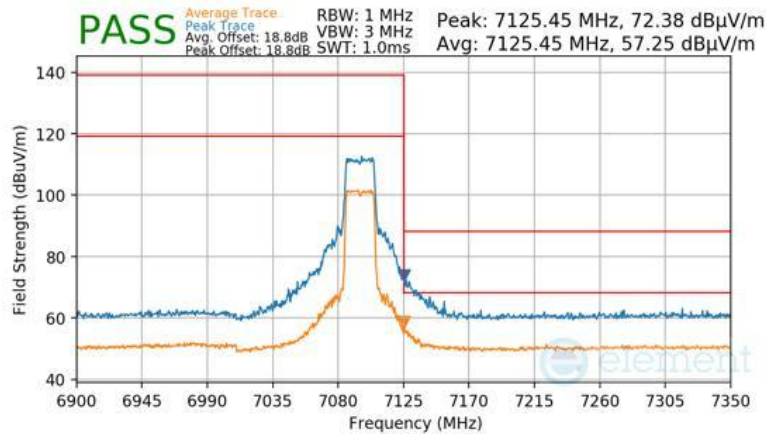


Plot 7-337 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 158 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

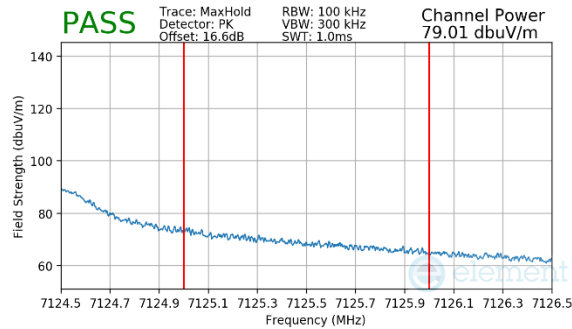
802.11ax-SU
MCS11
3 Meters
7095MHz
229



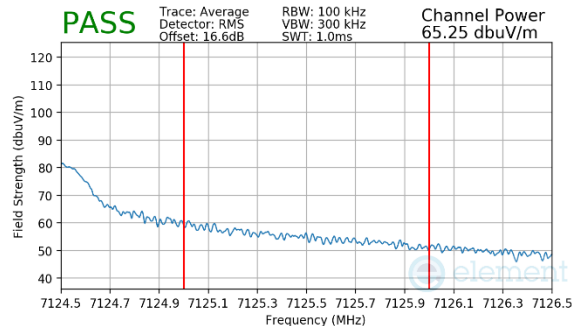
Plot 7-338 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
MCS11
3 Meters
7115MHz
233



Plot 7-339 Antenna 0 Radiated Upper Band Edge (Peak – UNII Band 8)

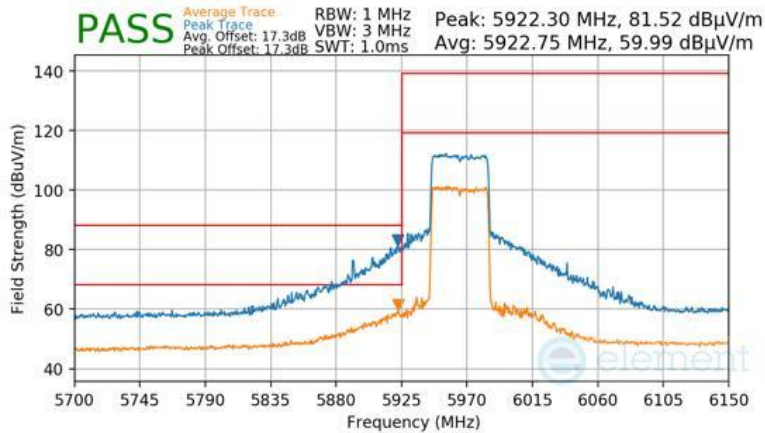


Plot 7-340 Antenna 0 Radiated Upper Band Edge (Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 159 of 192

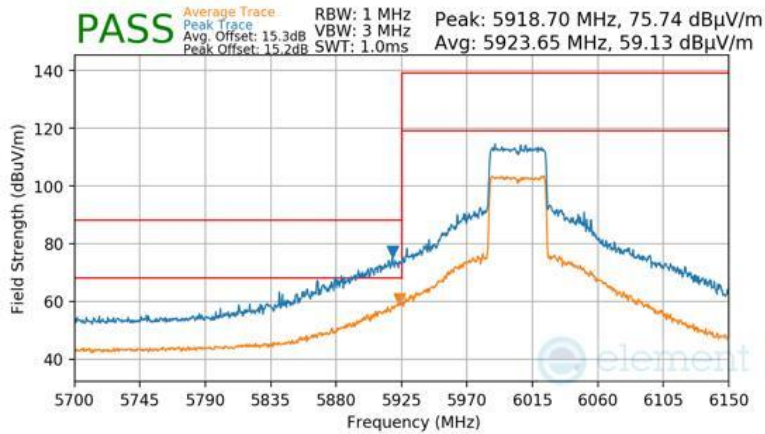
7.7.3 Antenna 0 Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5965MHz
Channel	3



Plot 7-341 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6005MHz
Channel	11

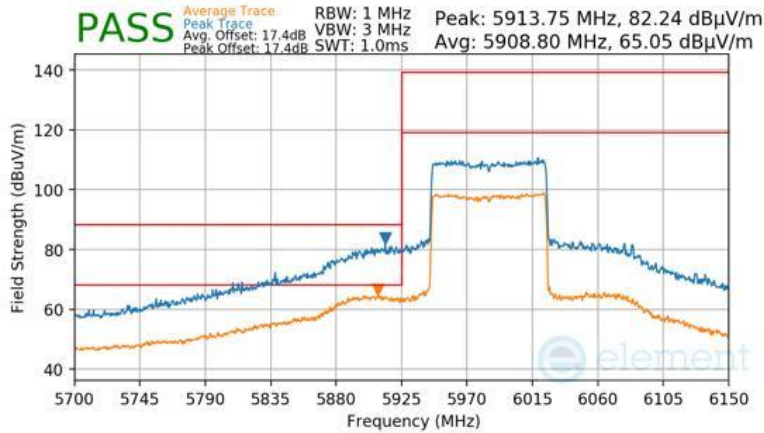


Plot 7-342 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 160 of 192

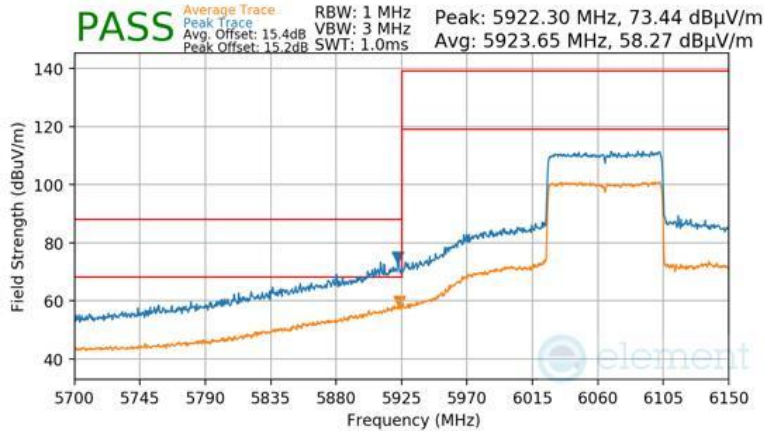
7.7.4 Antenna 0 Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5985MHz
Channel	7



Plot 7-344 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6065MHz
Channel	23

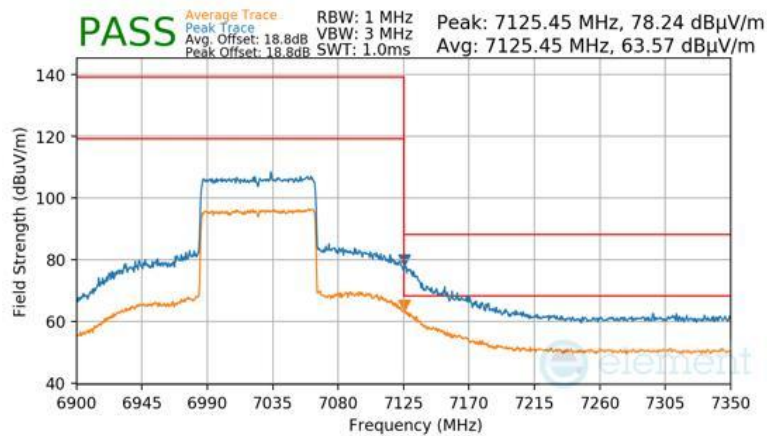


Plot 7-345 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 162 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS11
 3 Meters
 7025MHz
 215

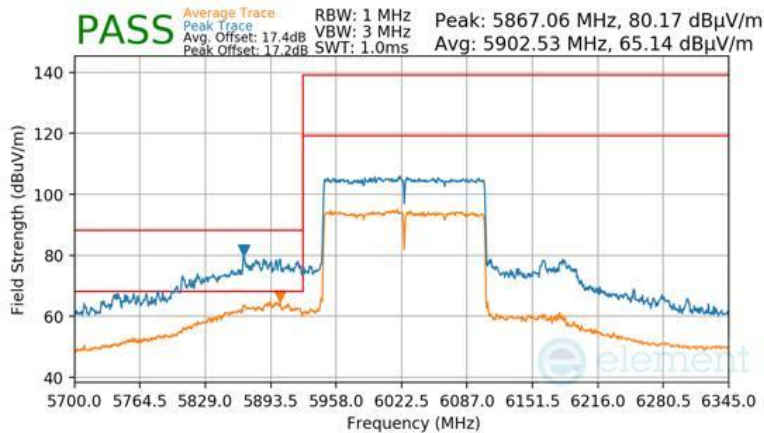


Plot 7-346 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 163 of 192

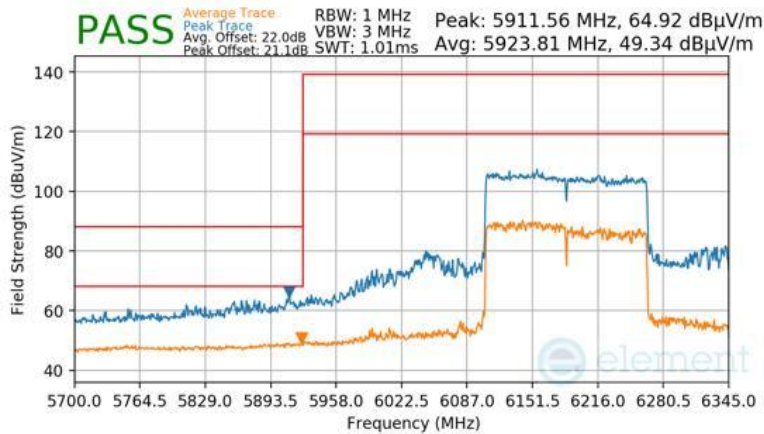
7.7.5 Antenna 0 Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6025MHz
Channel	15



Plot 7-347 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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

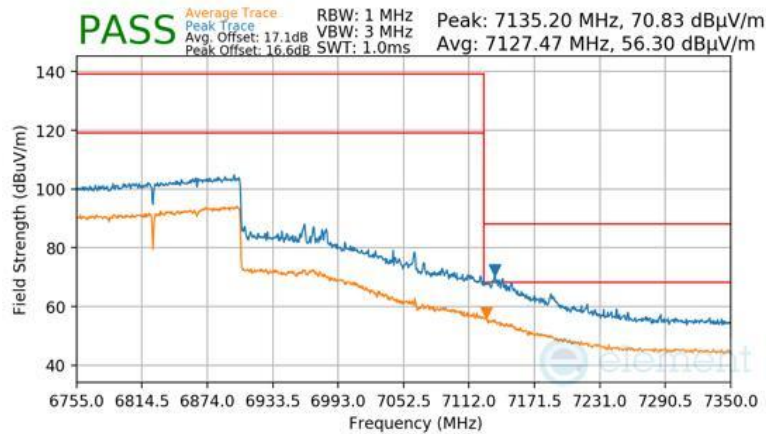


Plot 7-348 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 164 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

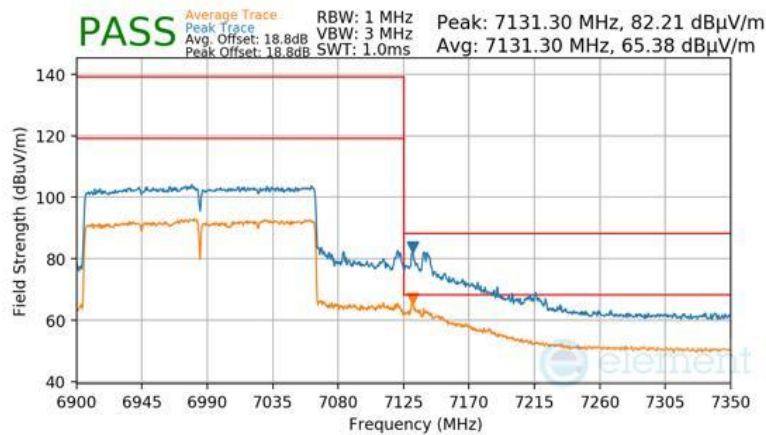
802.11ax-SU
MCS11
3 Meters
6825MHz
175



Plot 7-349 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 7)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
MCS11
3 Meters
6985MHz
207

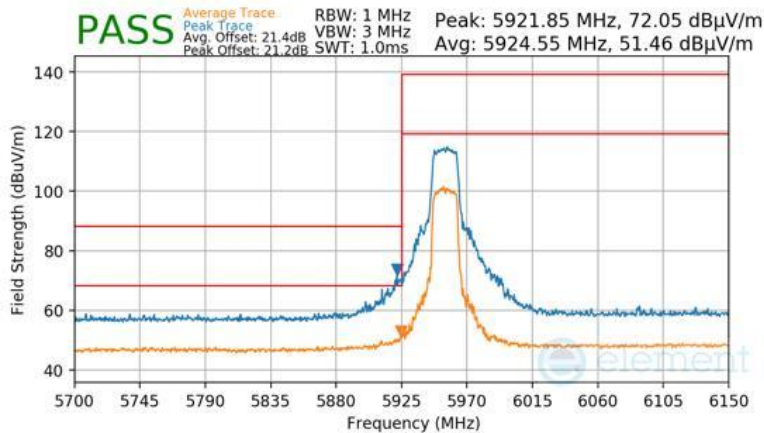


Plot 7-350 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 165 of 192

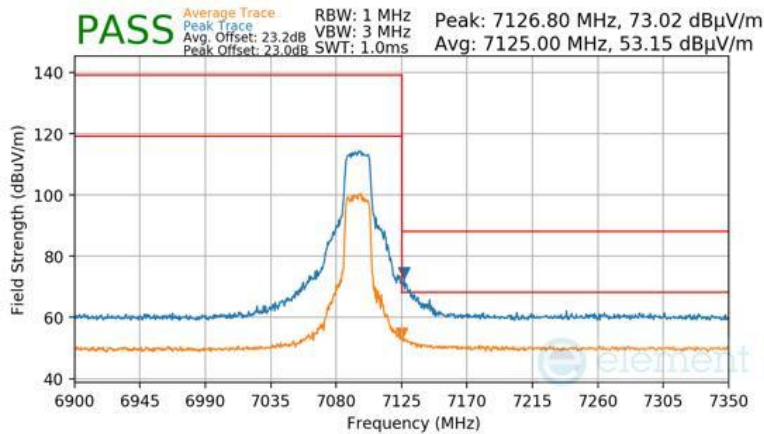
7.7.6 Antenna 1 Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	5955MHz
Channel	1



Plot 7-351 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

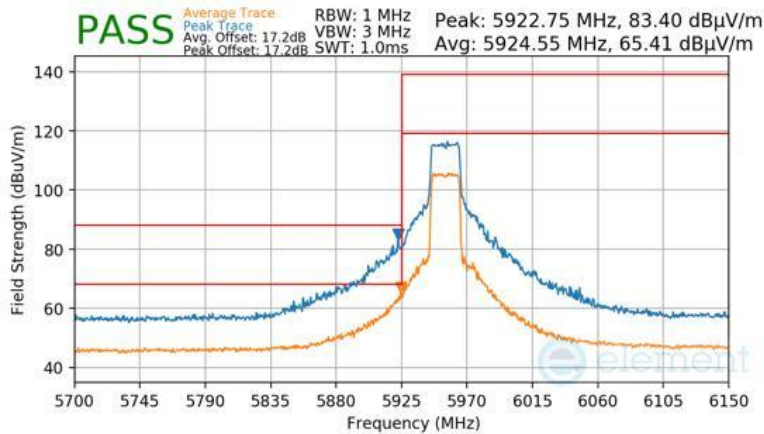
Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229



Plot 7-352 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

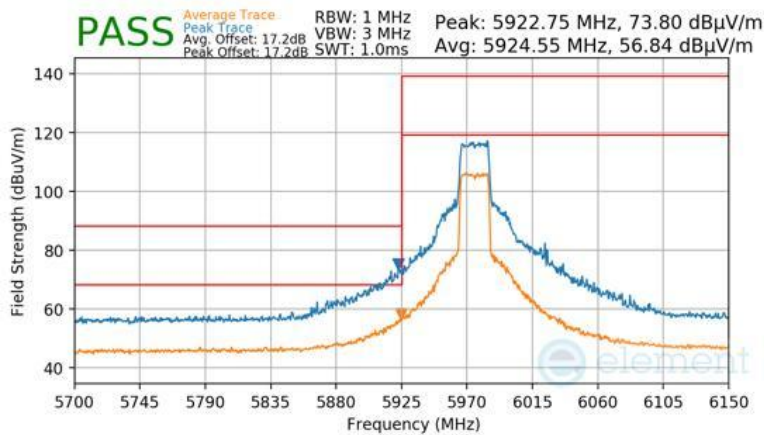
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 166 of 192

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5955MHz
Channel	1



Plot 7-353 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5975MHz
Channel	5

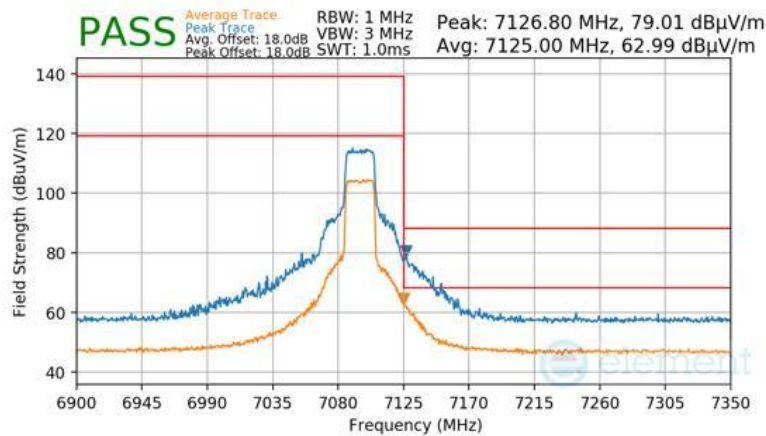


Plot 7-354 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 167 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

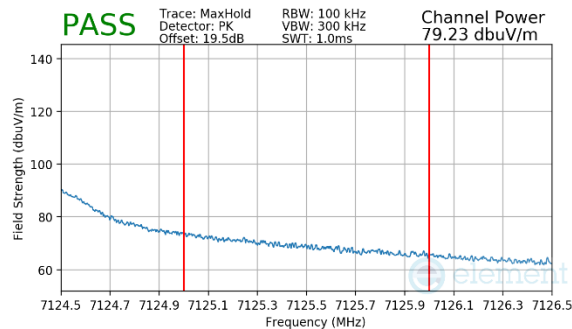
802.11ax-SU
 MCS11
 3 Meters
 7095MHz
 229



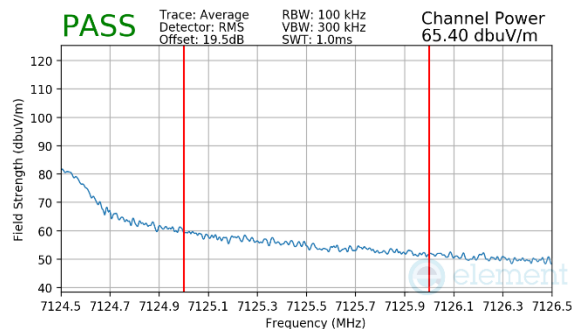
Plot 7-355 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS11
 3 Meters
 7115MHz
 233



Plot 7-356 Antenna 1 Radiated Upper Band Edge (Peak – UNII Band 8)

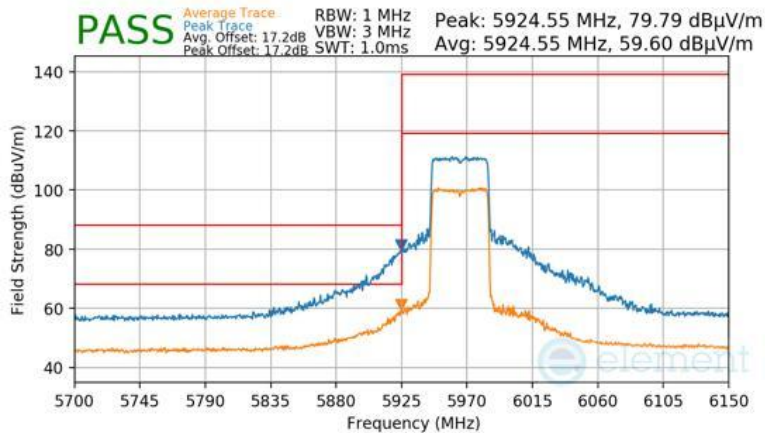


Plot 7-357 Antenna 1 Radiated Upper Band Edge (Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 168 of 192

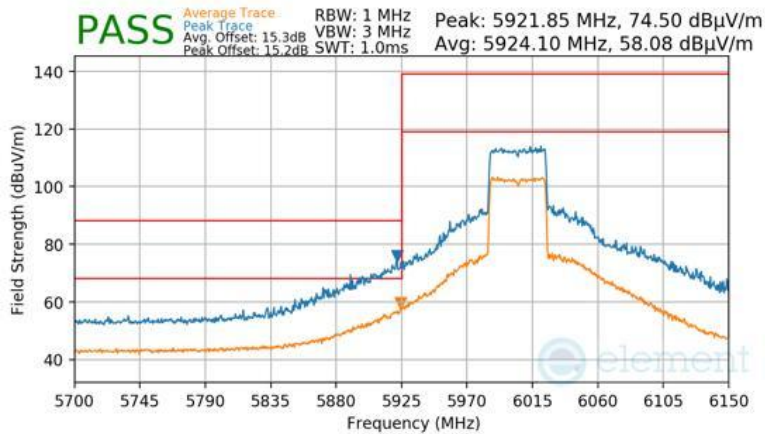
7.7.7 Antenna 1 Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5965MHz
Channel	3



Plot 7-358 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6005MHz
Channel	11

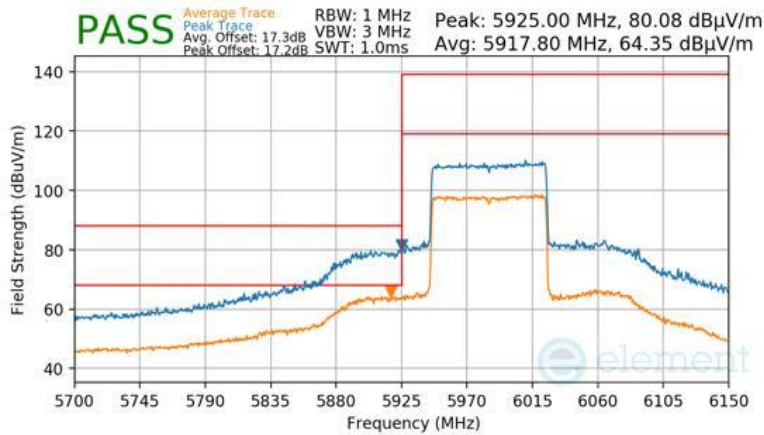


Plot 7-359 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 169 of 192

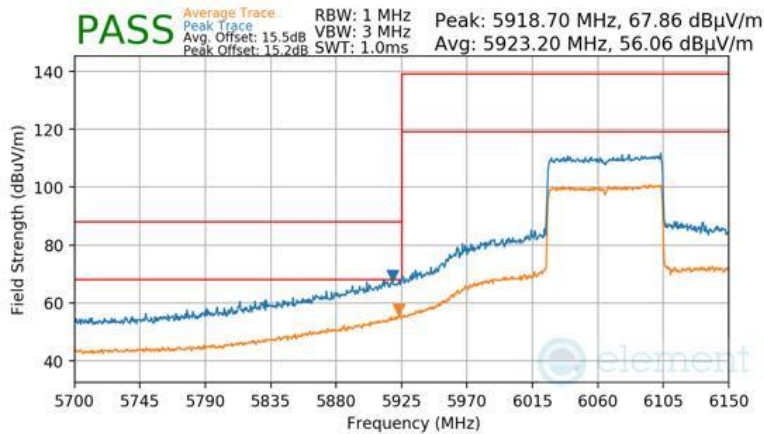
7.7.8 Antenna 1 Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5985MHz
Channel	7



Plot 7-361 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6065MHz
Channel	23

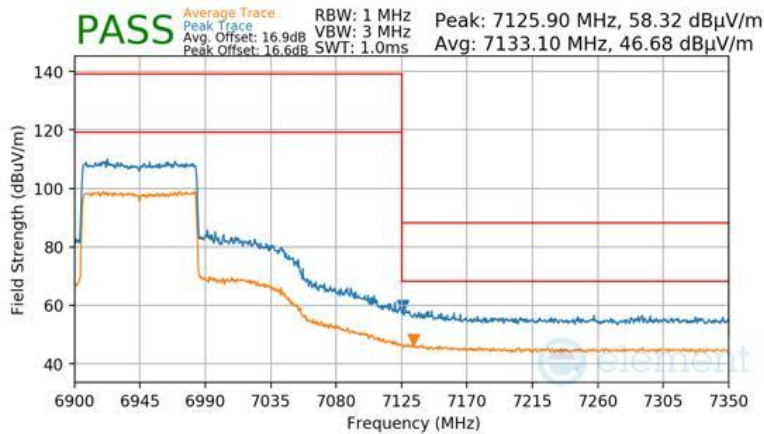


Plot 7-362 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 171 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

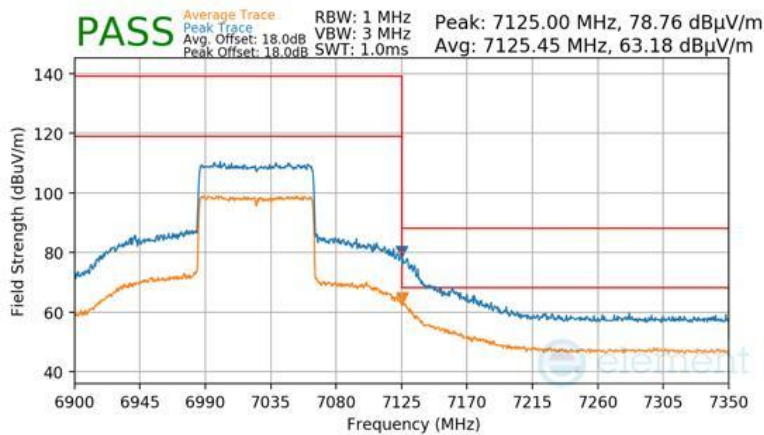
802.11ax-SU
MCS11
3 Meters
6945MHz
199



Plot 7-363 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
MCS11
3 Meters
7025MHz
215

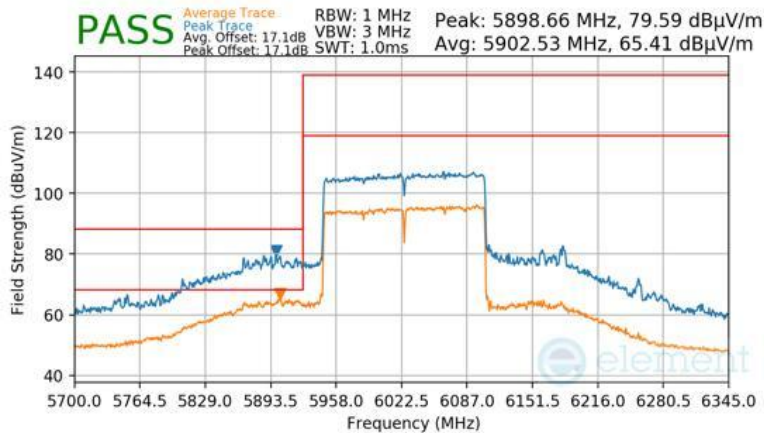


Plot 7-364 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 172 of 192

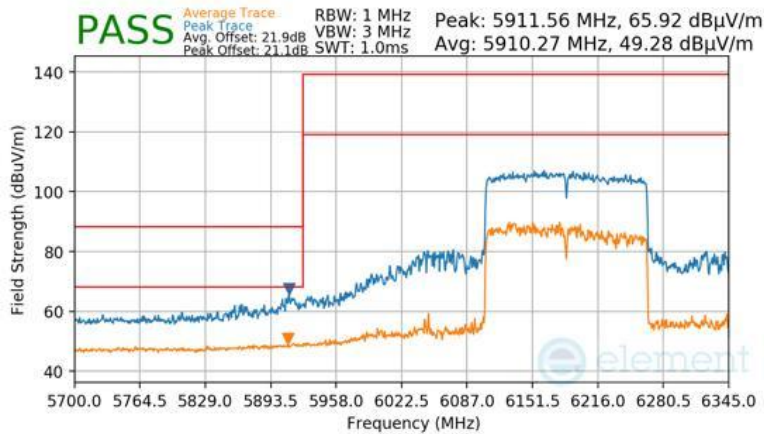
7.7.9 Antenna 1 Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6025MHz
Channel	15



Plot 7-365 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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

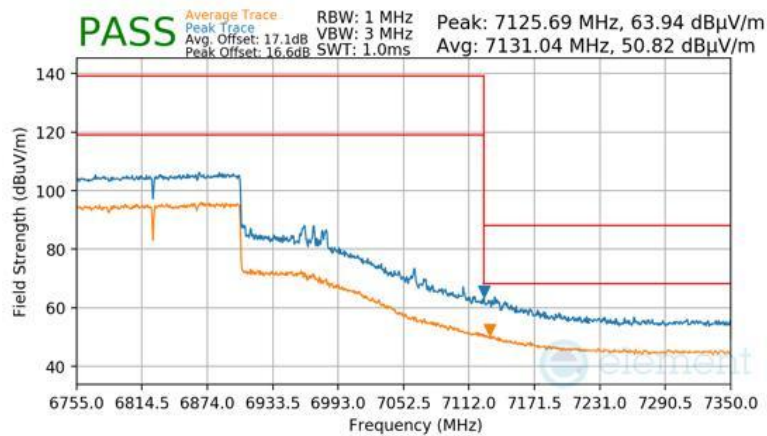


Plot 7-366 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 173 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

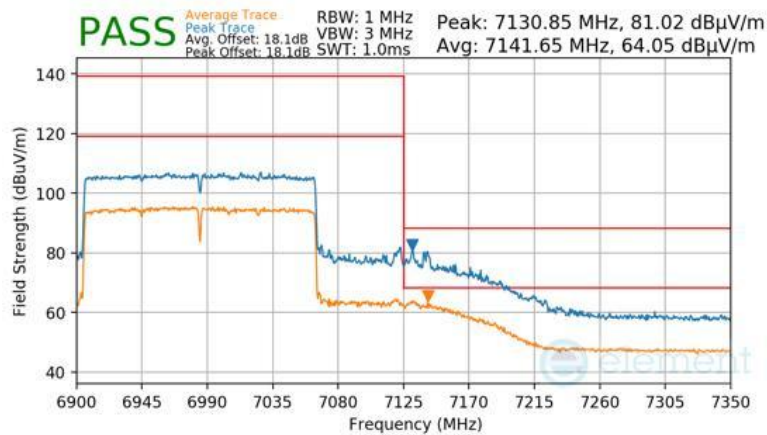
802.11ax-SU
MCS11
3 Meters
6825MHz
175



Plot 7-367 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 7)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
MCS11
3 Meters
6985MHz
207

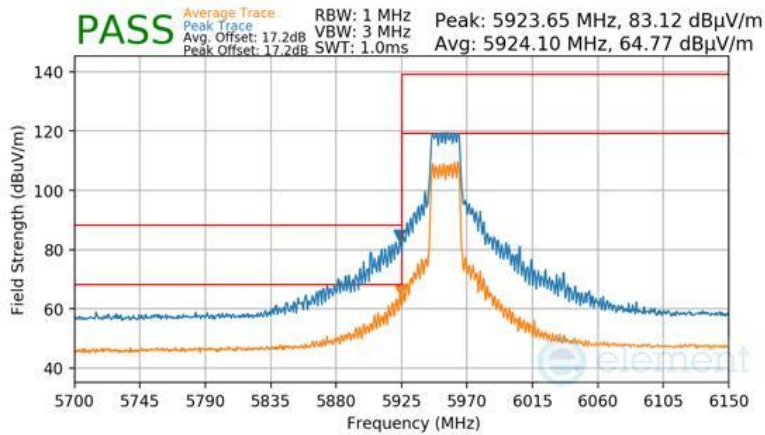


Plot 7-368 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 174 of 192

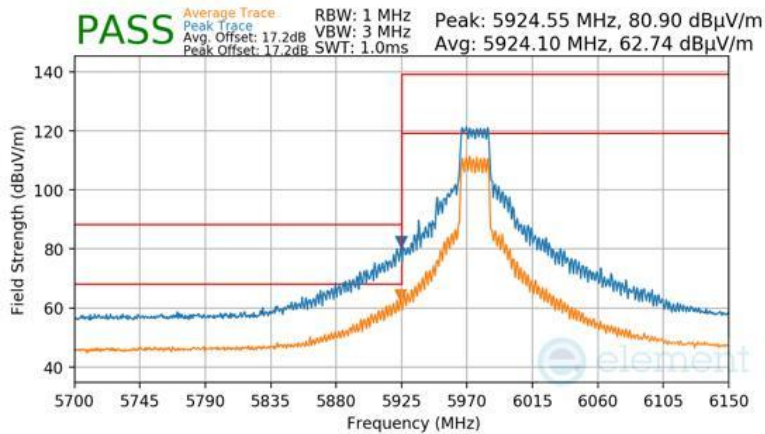
7.7.10 CDD Radiated Band Edge Measurements (20MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5955MHz
Channel	1



Plot 7-369 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5975MHz
Channel	5

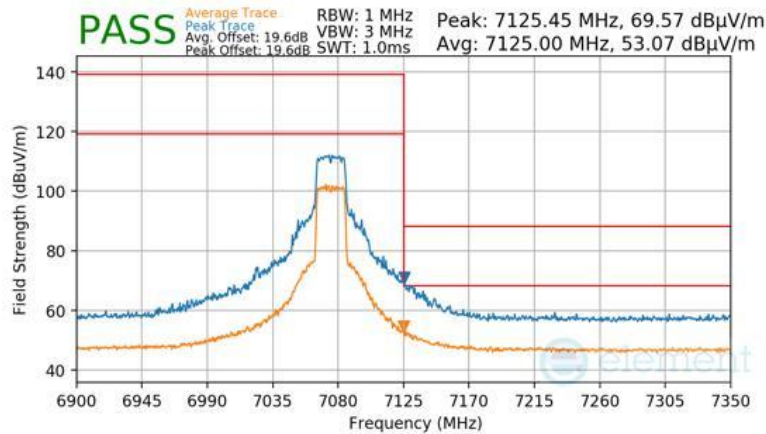


Plot 7-370 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 175 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

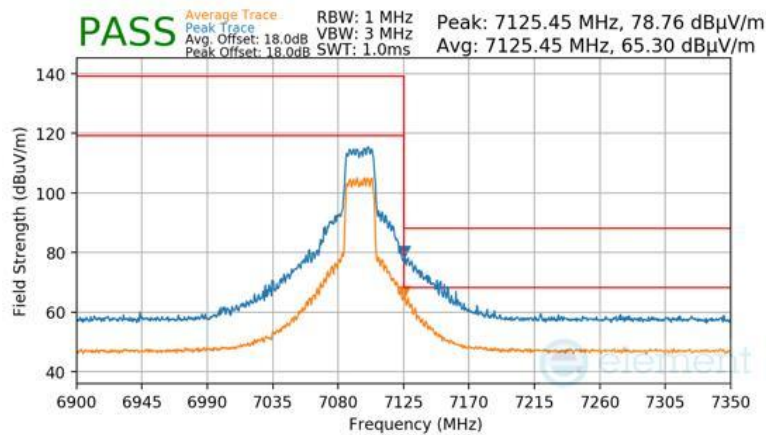
802.11ax-SU
 MCS11
 3 Meters
 7075MHz
 225



Plot 7-371 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

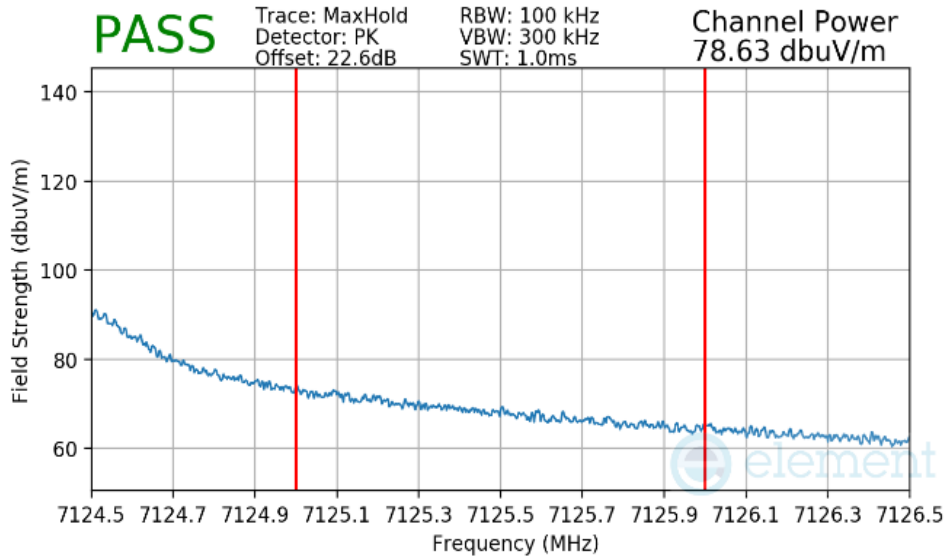
802.11ax-SU
 MCS11
 3 Meters
 7095MHz
 229



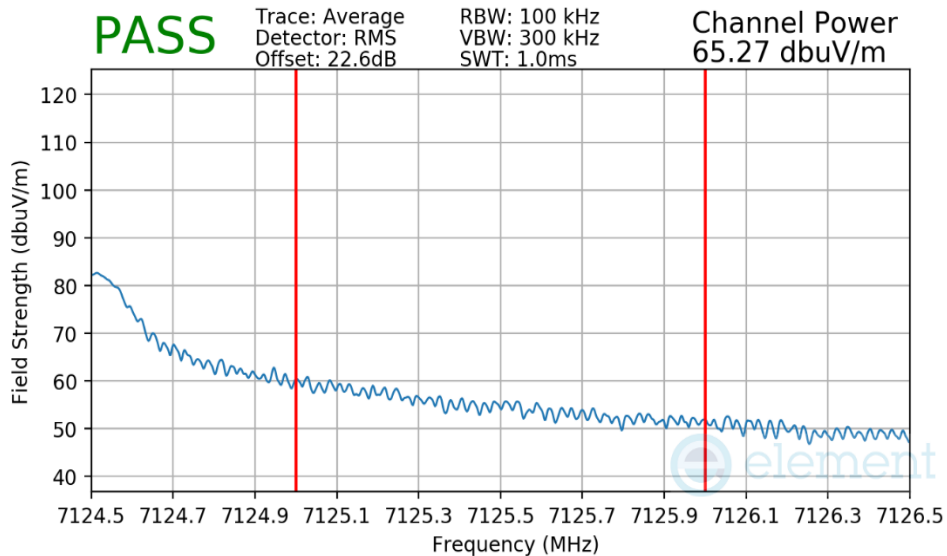
Plot 7-372 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 176 of 192

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7115MHz
Channel	233



Plot 7-373 CDD Radiated Upper Band Edge (Peak – UNII Band 8)

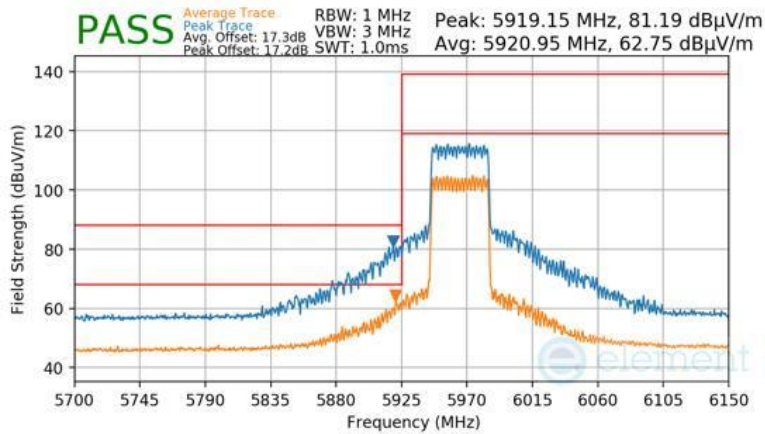


Plot 7-374 CDD Radiated Upper Band Edge (Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 177 of 192

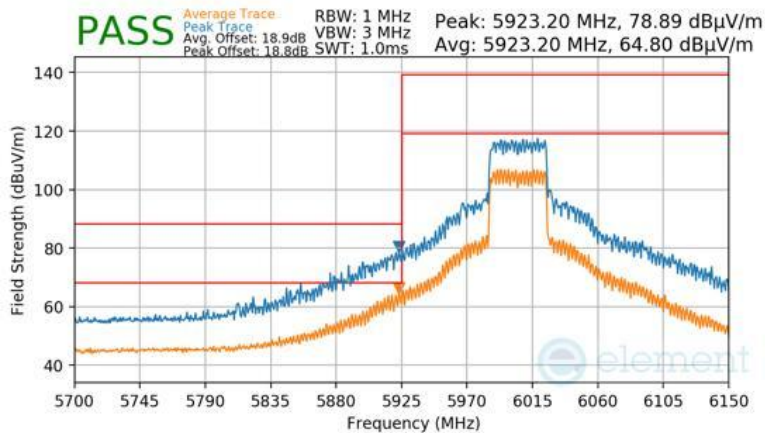
7.7.11 CDD Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5965MHz
Channel	3



Plot 7-375 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6005MHz
Channel	11

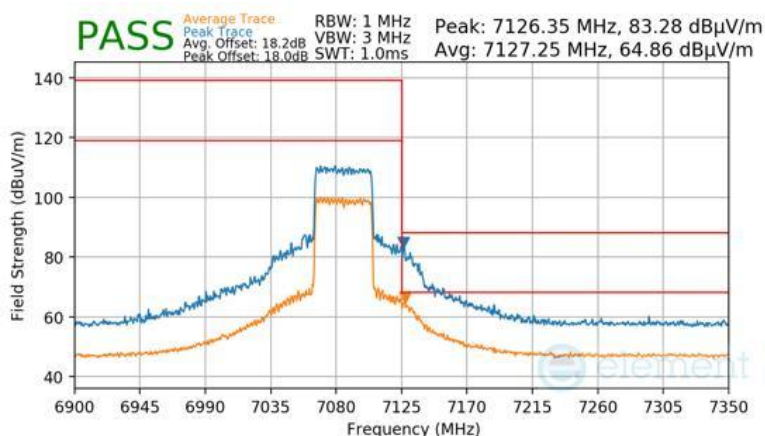


Plot 7-376 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 178 of 192

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS11
 3 Meters
 7085MHz
 227

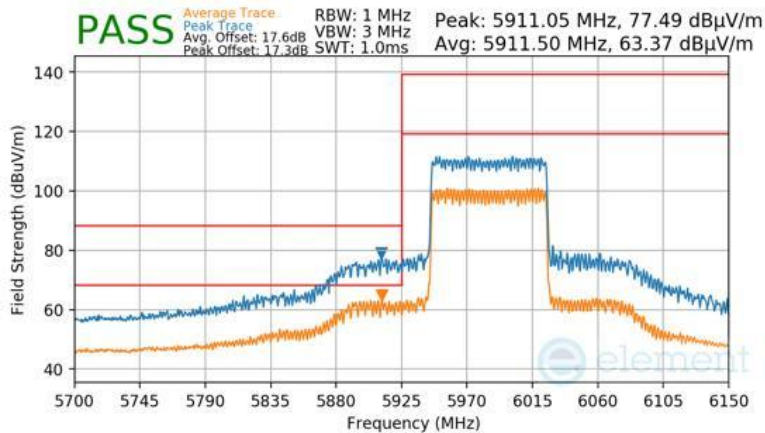


Plot 7-377 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 179 of 192

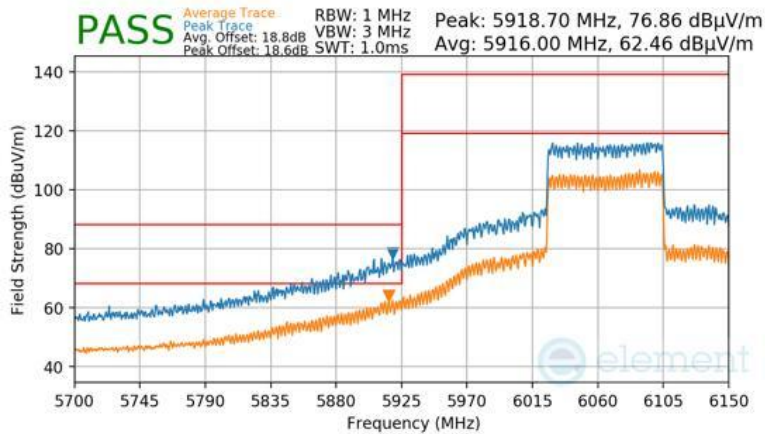
7.7.12 CDD Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	5985MHz
Channel	7



Plot 7-378 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6065MHz
Channel	23

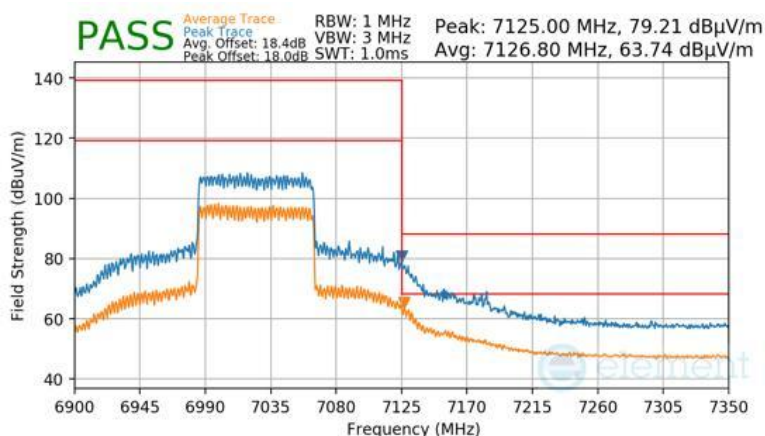


Plot 7-379 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS11
 3 Meters
 7025MHz
 215

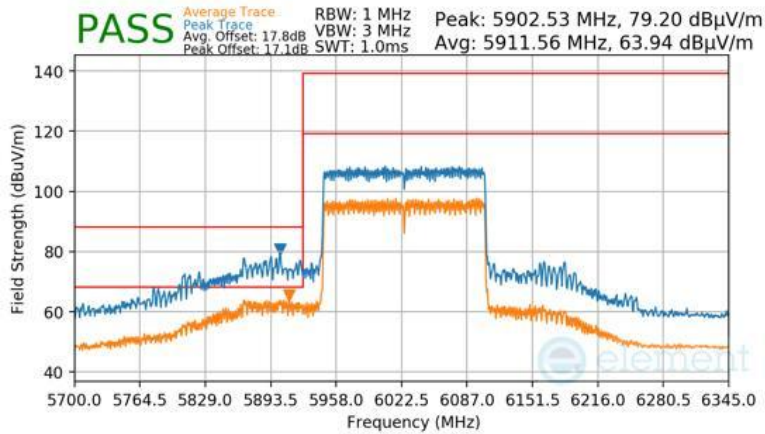


Plot 7-380 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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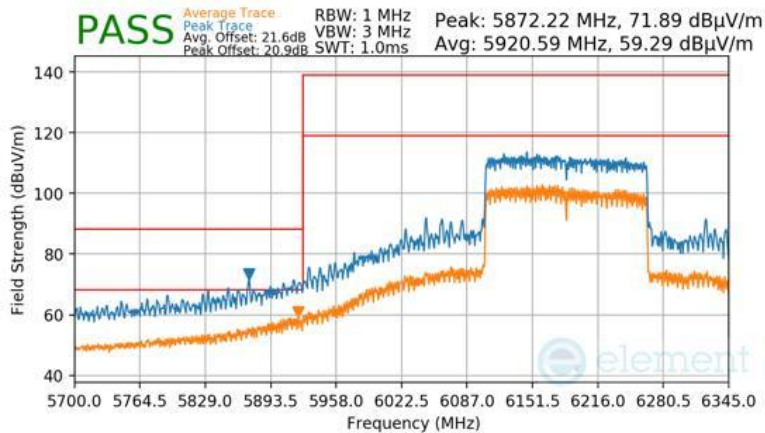
7.7.13 CDD Radiated Band Edge Measurements (160MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6025MHz
Channel	15



Plot 7-381 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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

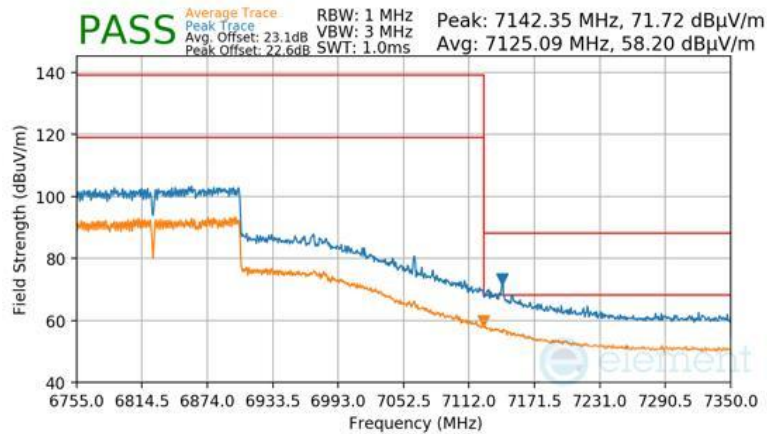


Plot 7-382 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

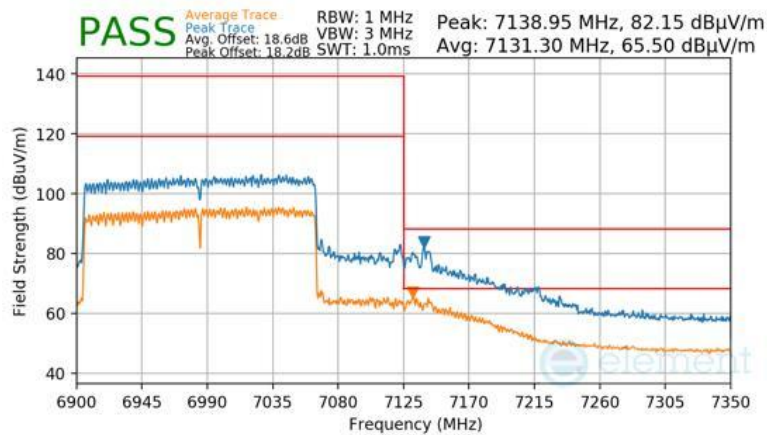
802.11ax-SU
 MCS11
 3 Meters
 6825MHz
 175



Plot 7-383 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 7)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
 MCS11
 3 Meters
 6985MHz
 207



Plot 7-384 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 183 of 192

7.8 Radiated Spurious Emissions – Below 1GHz

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 6 of RSS-Gen (7.5) must not exceed the limits shown in Table 7-58 per Section 15.209 and RSS-Gen (7.4.3).

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 7-58. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

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

Test Setup

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

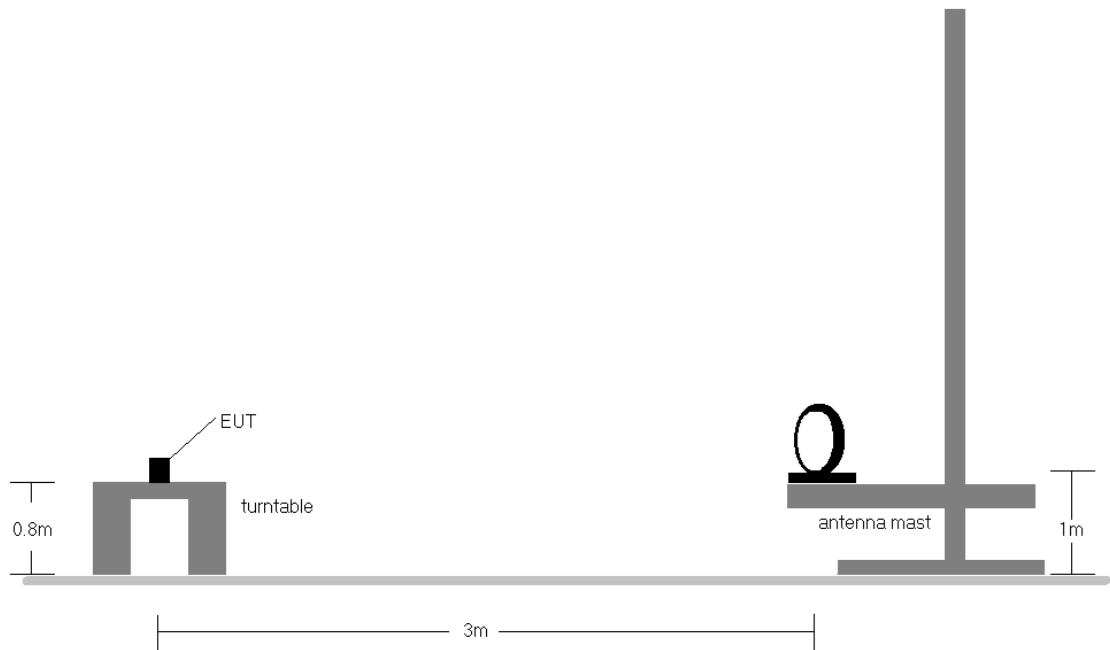


Figure 7-7. Radiated Test Setup < 30MHz

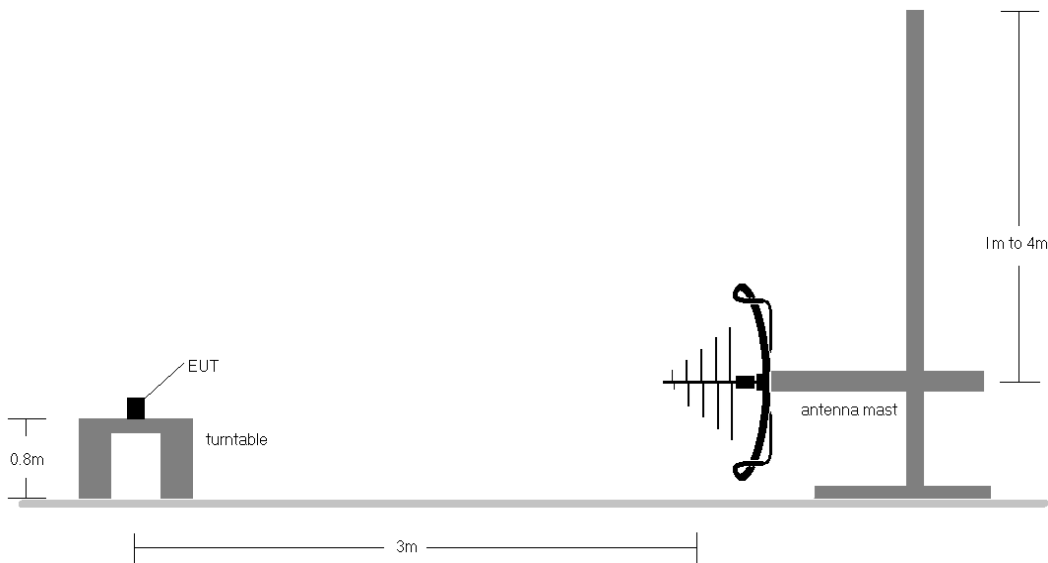


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (7.5) are below the limit shown in Table 7-58.
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 while powered by an AC/DC Adapter via USB-C Cable.
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. The worst case configuration below was investigated and reported.
 - a. EUT powered by an AC/DC Adapter via USB-C Cable.
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.

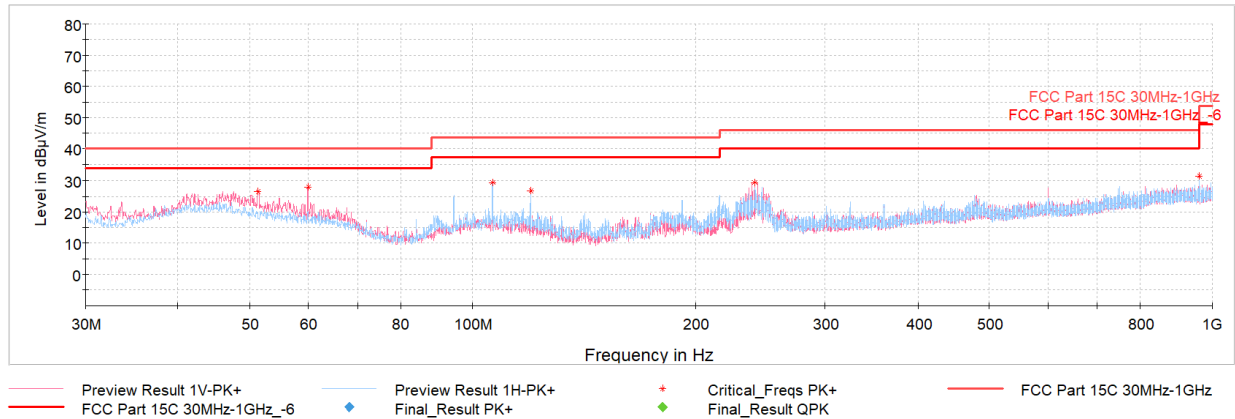
Sample Calculations

Determining Spurious Emissions Levels

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

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7.8.1 CDD Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-385. Radiated Spurious Emissions below 1GHz CDD, 802.11ax, Ch.45 with AC/DC Adapter via USB-C 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]
51.39	MaxPeak	V	100	13	-66.34	-14.25	26.41	40.00	-13.59
59.97	MaxPeak	V	100	13	-63.32	-15.76	27.92	40.00	-12.08
106.44	MaxPeak	H	300	111	-61.14	-16.60	29.26	43.52	-14.26
119.97	MaxPeak	H	200	286	-61.86	-18.40	26.74	43.52	-16.78
240.98	MaxPeak	V	200	222	-63.00	-14.72	29.28	46.02	-16.74
960.04	MaxPeak	H	100	15	-74.13	-1.60	31.27	53.98	-22.71

Table 7-59. Radiated Spurious Emissions Measurement below 1GHz CDD, 802.11ax, Ch.45 with AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.9 AC Line-Conducted Emissions Measurement

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 (7.4.2).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-60. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, 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.

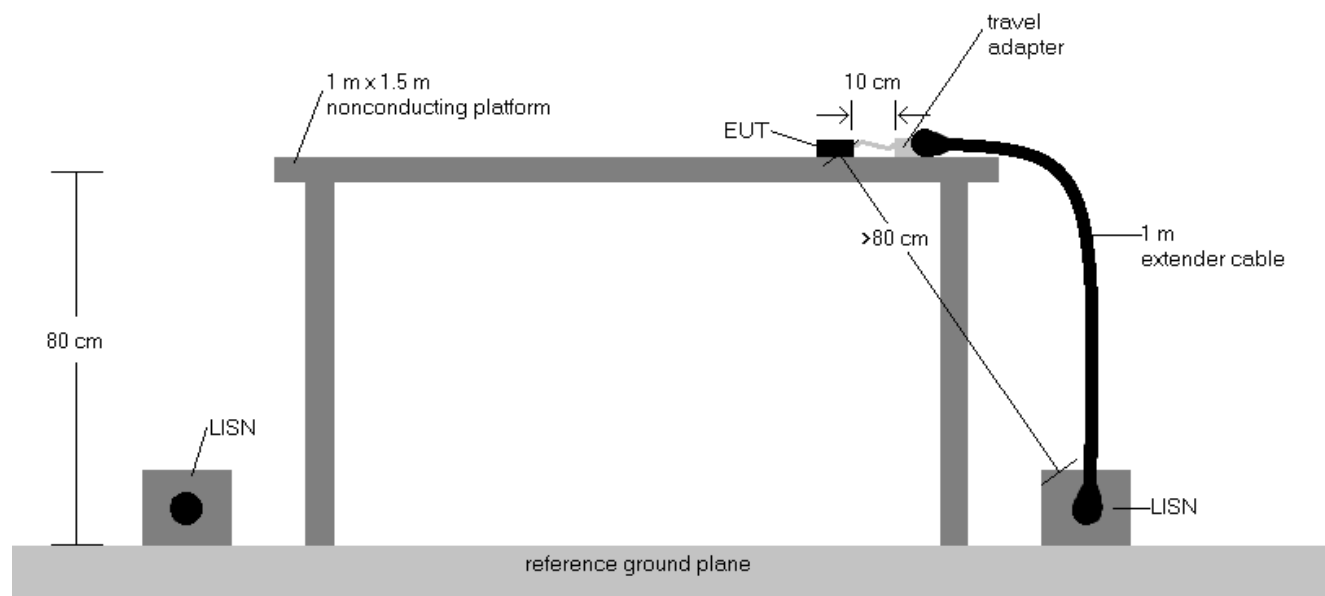
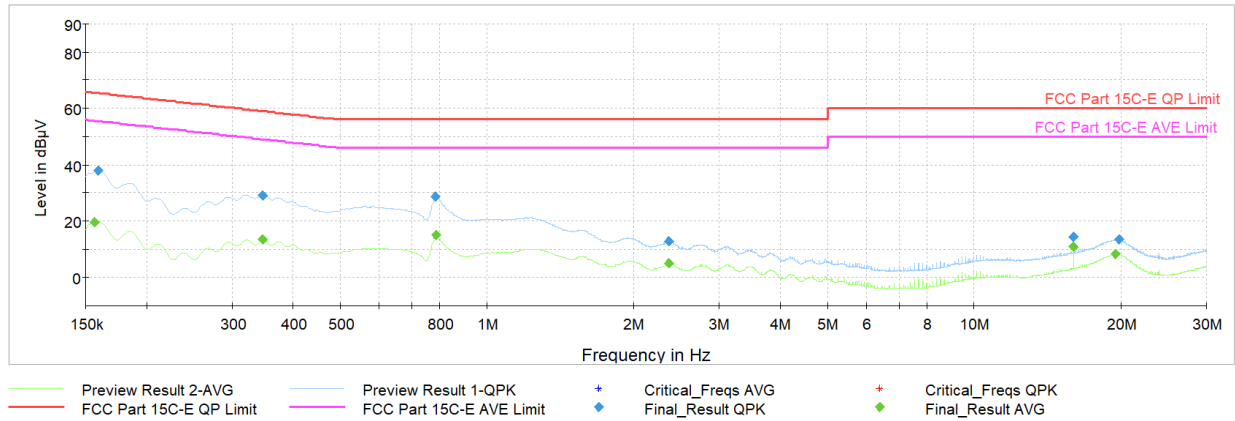


Figure 7-9. Test Instrument & Measurement Setup

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. The worst case configuration below was investigated and reported.
 - a. This unit was tested while powered by an AC/DC Adapter via USB-C Cable.
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (7.4.2).
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: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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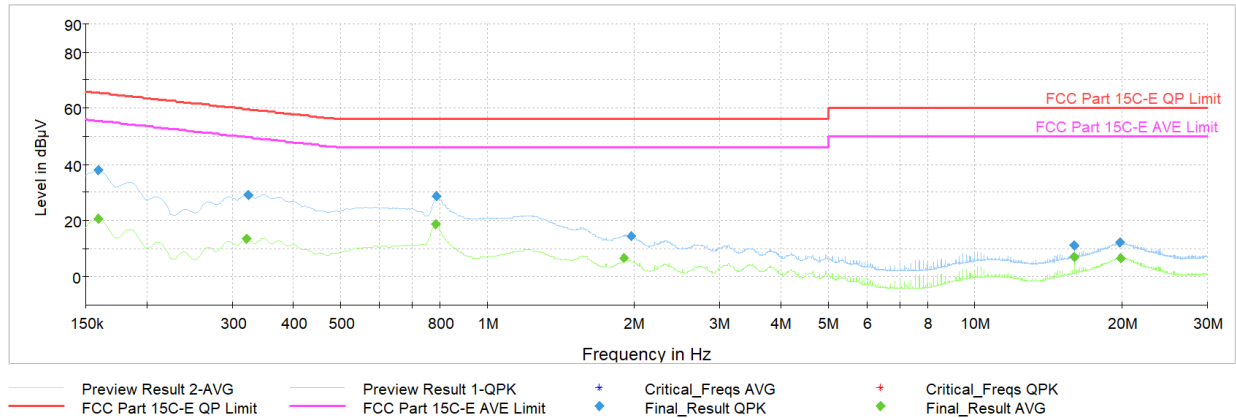


Plot 7-386. AC Line Conducted Plot with 802.11ax CDD – Ch. 45 (L1), with AC/DC Adapter via USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.157	FINAL	—	19.71	55.63	-35.92	L1	ON
0.159	FINAL	37.7	—	65.52	-27.79	L1	ON
0.346	FINAL	—	13.38	49.06	-35.68	L1	ON
0.346	FINAL	29.1	—	59.06	-29.99	L1	ON
0.785	FINAL	28.6	—	56.00	-27.39	L1	ON
0.787	FINAL	—	15.15	46.00	-30.85	L1	ON
2.360	FINAL	12.8	—	56.00	-43.21	L1	ON
2.360	FINAL	—	5.01	46.00	-40.99	L1	ON
15.959	FINAL	14.5	—	60.00	-45.55	L1	ON
15.959	FINAL	—	10.73	50.00	-39.27	L1	ON
19.446	FINAL	—	8.11	50.00	-41.89	L1	ON
19.793	FINAL	13.3	—	60.00	-46.70	L1	ON

Table 7-61. AC Line Conducted Data with 802.11ax CDD – Ch. 45 (L1) with AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Plot 7-387. AC Line Conducted Plot with 802.11ax CDD – Ch. 45 (N) with AC/DC Adapter via USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.162	FINAL	—	20.64	55.06	-34.98	N	ON
0.162	FINAL	38.3	—	65.06	-28.27	N	ON
0.342	FINAL	29.9	—	59.28	-28.93	N	ON
0.342	FINAL	—	16.03	49.23	-34.13	N	ON
0.765	FINAL	28.8	—	56.00	-29.76	N	ON
0.765	FINAL	—	19.86	46.00	-33.89	N	ON
1.967	FINAL	14.2	—	56.00	-24.68	N	ON
1.847	FINAL	—	8.24	46.00	-25.03	N	ON
16.240	FINAL	—	16.15	46.00	-36.03	N	ON
16.240	FINAL	14.1	—	56.00	-33.52	N	ON
19.974	FINAL	—	16.27	46.00	-39.46	N	ON
19.974	FINAL	13.6	—	56.00	-41.53	N	ON

Table 7-62. AC Line Conducted Data with 802.11ax CDD – Ch. 45 (N) with AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	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 Smart Speaker with Display FCC ID: BCGA3218** and **IC: 579C-A3218** 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: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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