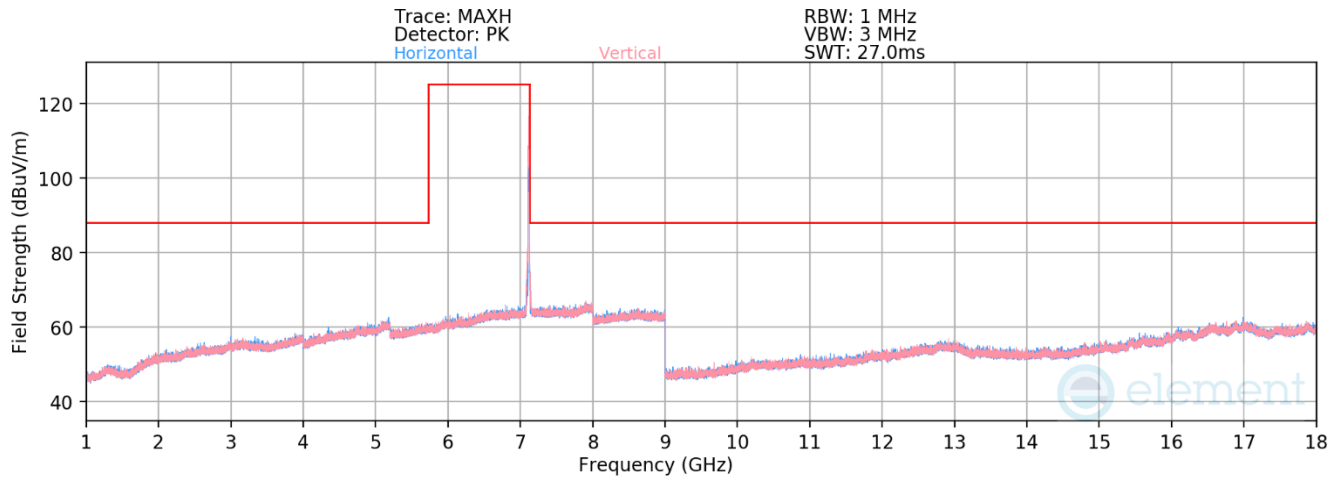




Plot 7-344. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 229 – RU106)

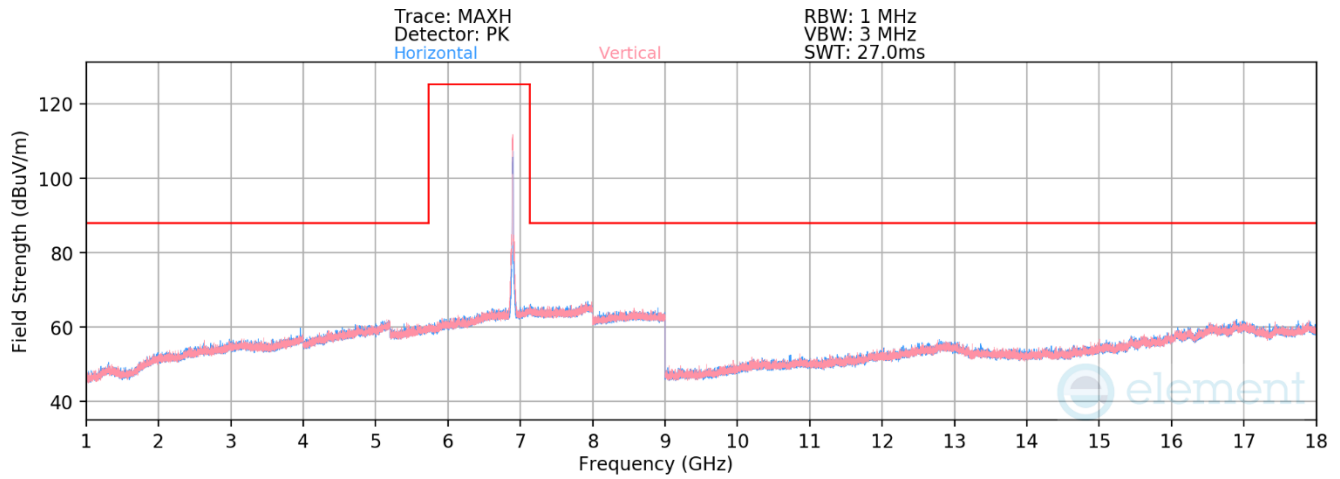
Mode: 802.11ax
Data Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 7095MHz
Channel: 229

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]
14190.00	Average	H	-	-	-86.99	22.86	42.88	68.23	-25.35
14190.00	Peak	H	-	-	-75.95	22.48	53.53	88.23	-34.70

Table 7-53. Radiated Spurious Emission Measurements SDM – RU106

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 161 of 198

RU242



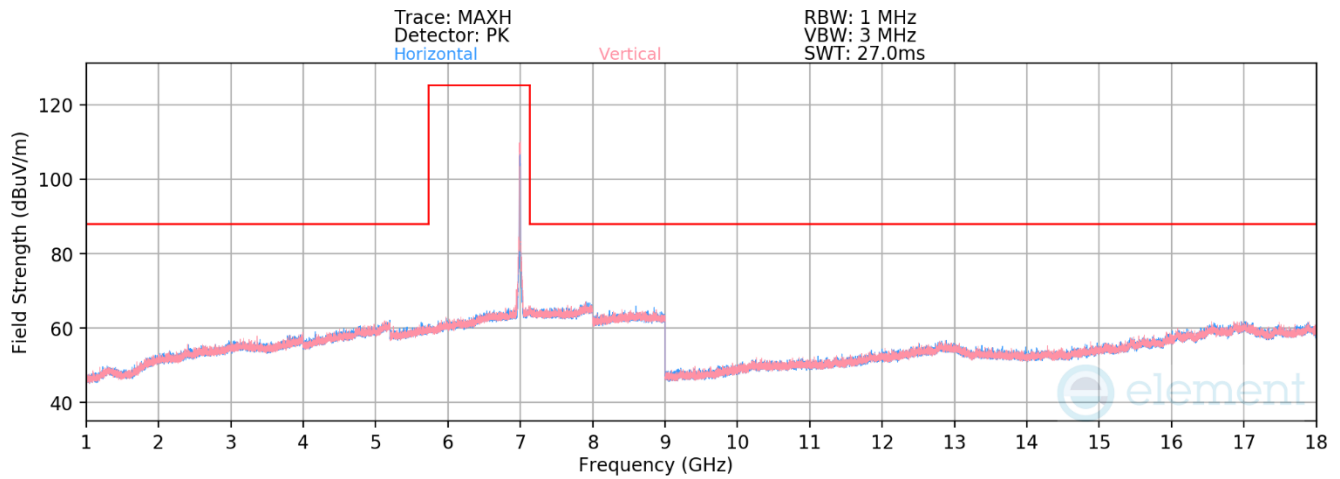
Plot 7-345. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 189 – RU242)

Mode: 802.11ax
Data Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6895MHz
Channel: 189

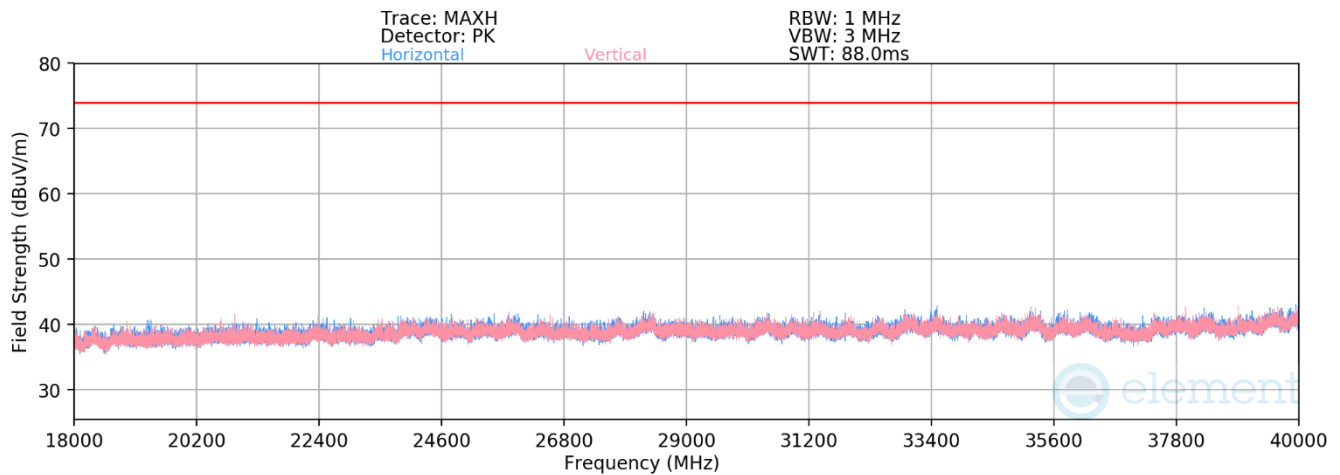
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13790.00	Average	H	-	-	-85.91	22.16	43.25	68.23	-24.98
13790.00	Peak	H	-	-	-74.37	22.16	54.79	88.23	-33.44

Table 7-54. Radiated Spurious Emission Measurements SDM – RU242

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198



Plot 7-346. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 209 – RU242)



Plot 7-347. Radiated Spurious Emissions 18-40GHz SDM (802.11ax – Ch. 209 – RU242)

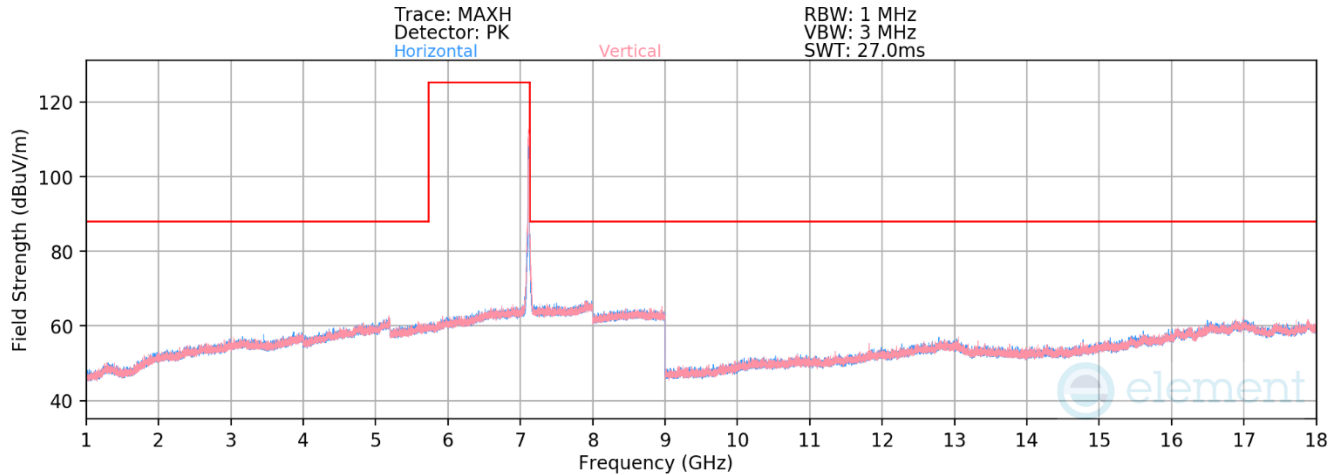
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 163 of 198

Mode: 802.11ax
 Data Rate: MCS11
 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13990.00	Average	H	-	-	-86.32	22.07	0.00	42.75	68.23	-25.48
13990.00	Peak	H	-	-	-74.86	22.07	0.00	54.21	88.23	-34.02
* 20985.00	Average	H	-	-	-60.71	-6.04	-9.54	30.71	53.98	-23.27
* 20985.00	Peak	H	-	-	-49.95	-6.04	-9.54	41.47	73.98	-32.51
27980.00	Average	H	-	-	-61.63	-4.50	-9.54	31.33	68.23	-36.90
27980.00	Peak	H	-	-	-50.24	-4.50	-9.54	42.72	88.23	-45.51
34975.00	Average	H	-	-	-61.21	-4.69	-9.54	31.56	68.23	-36.67
34975.00	Peak	H	-	-	-49.55	-4.69	-9.54	43.22	88.23	-45.01

Table 7-55. Radiated Spurious Emission Measurements SDM – RU242

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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.		



Plot 7-348. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 229 – RU242)

Mode: 802.11ax
Data Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 7095MHz
Channel: 229

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]
14190.00	Average	V	-	-	-86.55	22.86	43.31	68.23	-24.92
14190.00	Peak	V	-	-	-74.89	22.86	54.97	88.23	-33.26

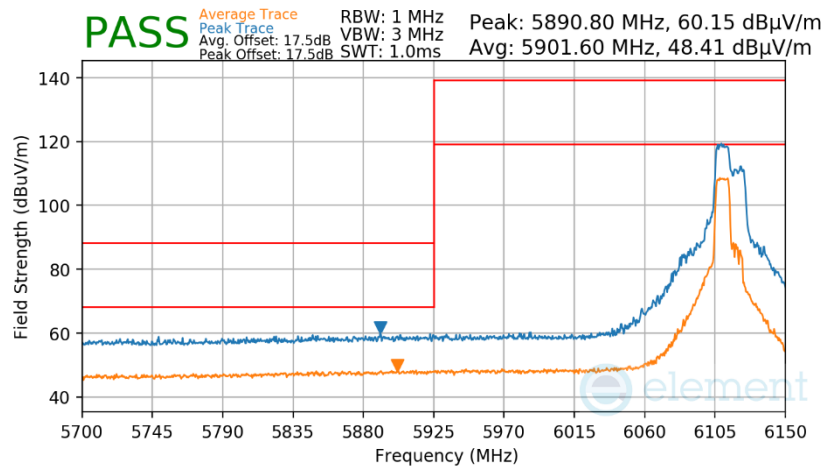
Table 7-56. Radiated Spurious Emission Measurements SDM – RU242

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

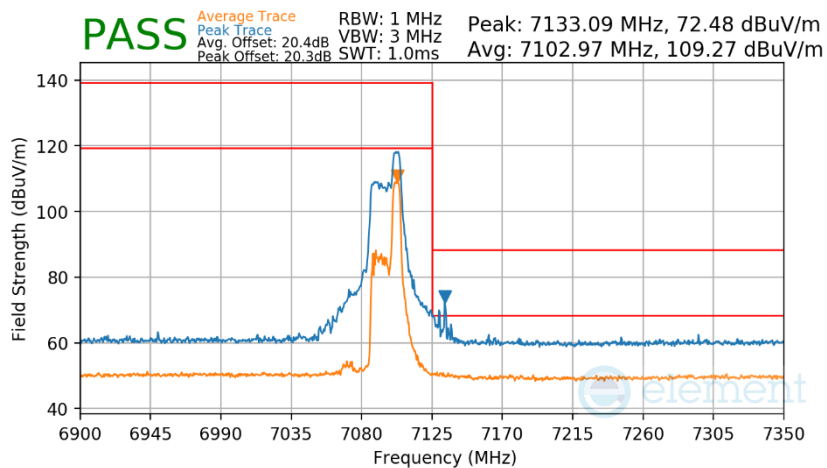
RU52/106

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	6115MHz
Channel:	33



Plot 7-349 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	40
Distance of Measurements:	3 Meters
Operating Frequency:	7095MHz
Channel:	229

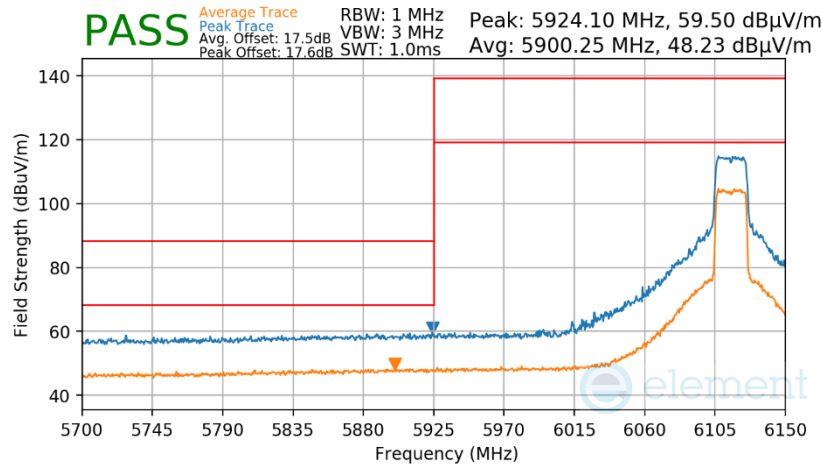


Plot 7-350 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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.		

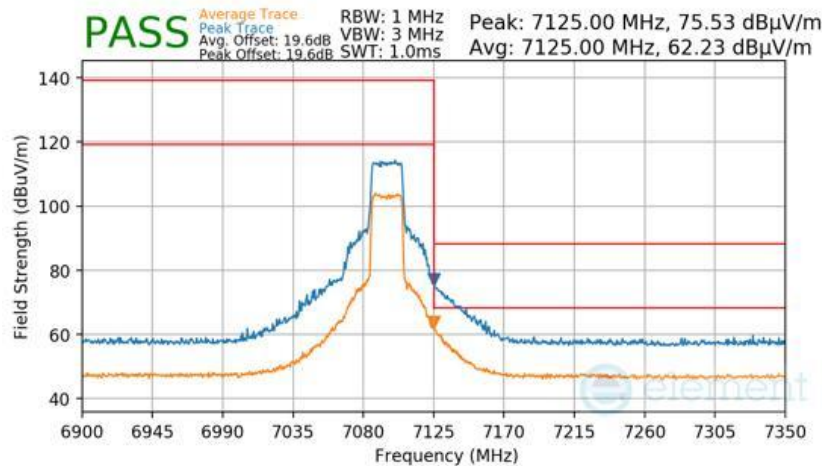
RU242

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 6115MHz
 Channel: 33



Plot 7-351 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 7095MHz
 Channel: 229



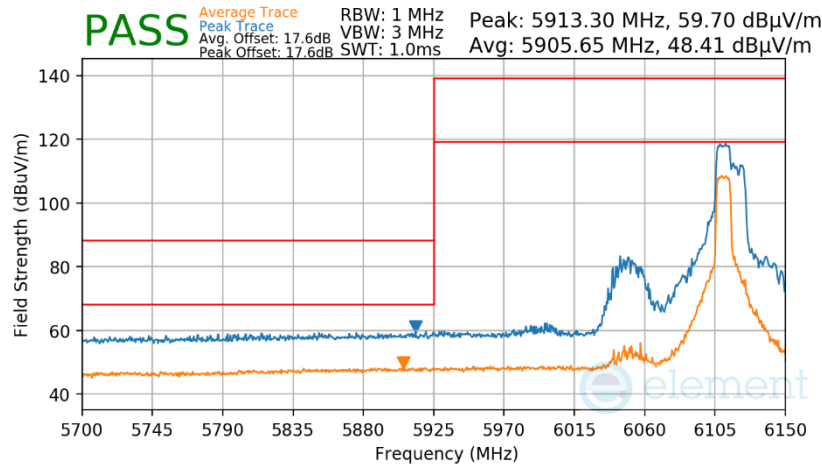
Plot 7-352 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

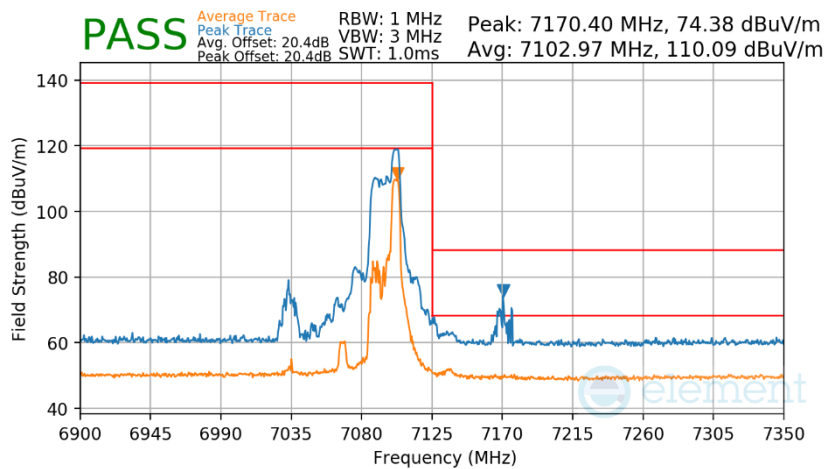
RU52/106

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 53
Distance of Measurements: 3 Meters
Operating Frequency: 6125MHz
Channel: 35



Plot 7-353 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 40
Distance of Measurements: 3 Meters
Operating Frequency: 7085MHz
Channel: 227

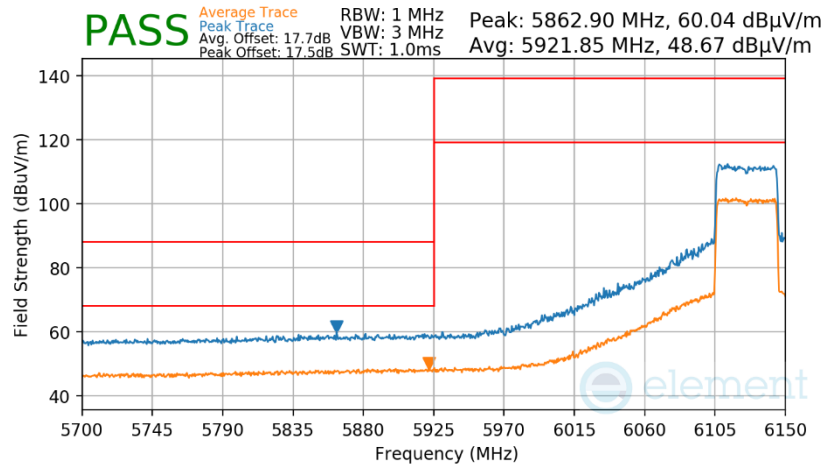


Plot 7-354 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

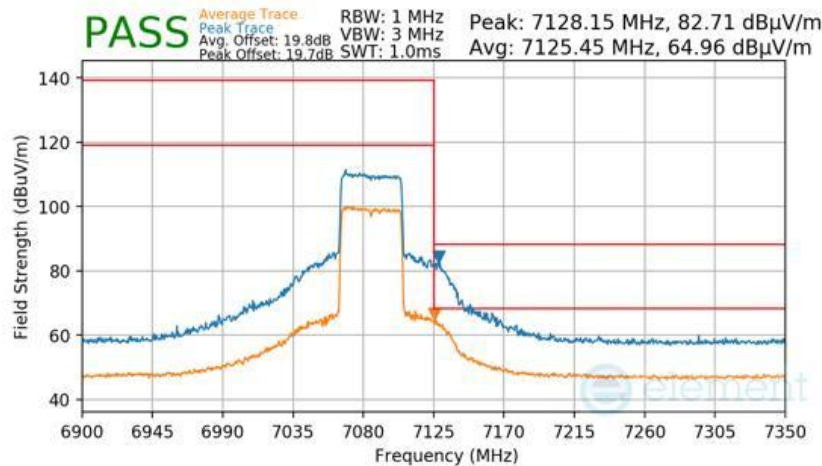
RU484

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 6125MHz
 Channel: 35



Plot 7-355 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



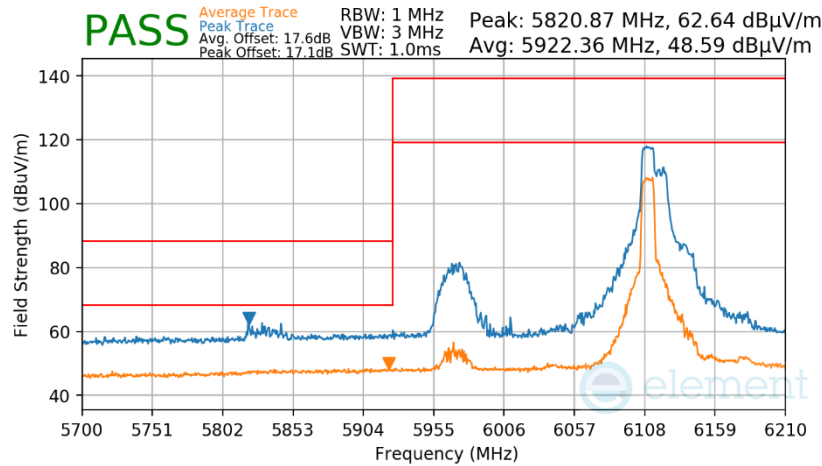
Plot 7-356 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

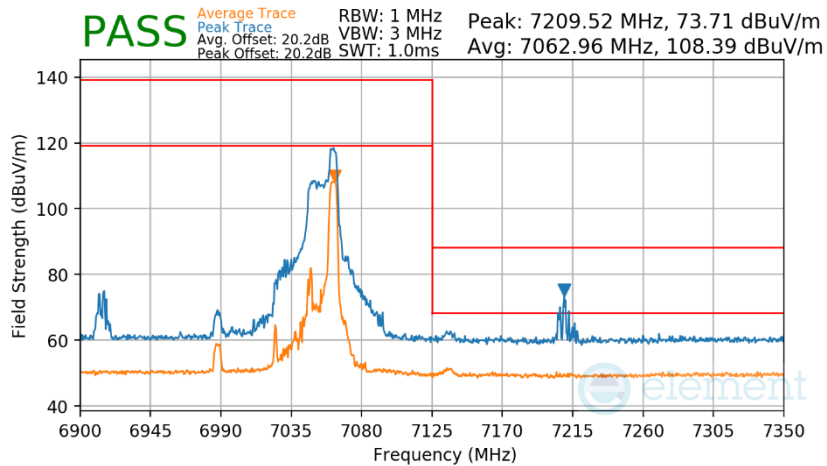
RU52/106

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 53
Distance of Measurements: 3 Meters
Operating Frequency: 6145MHz
Channel: 39



Plot 7-357 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 52
Distance of Measurements: 3 Meters
Operating Frequency: 7025MHz
Channel: 215

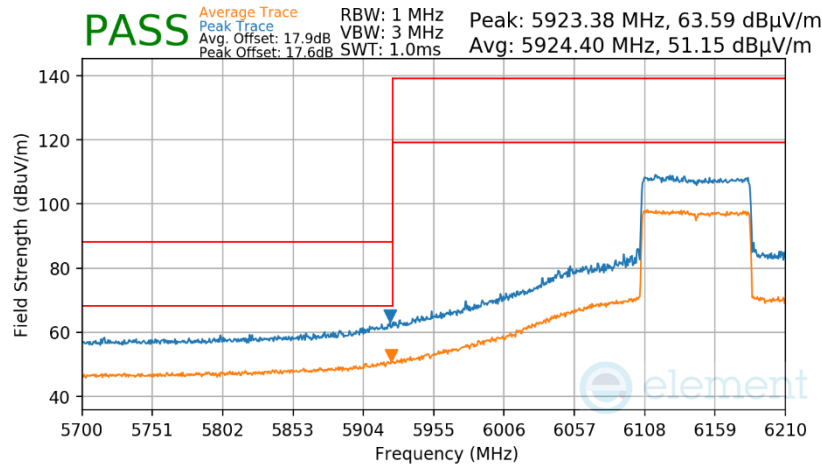


Plot 7-358 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 170 of 198

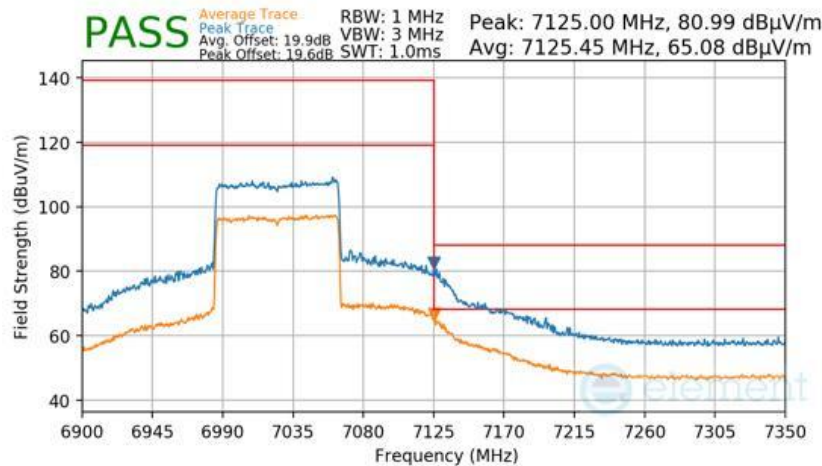
RU996

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 6145MHz
 Channel: 39



Plot 7-359 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



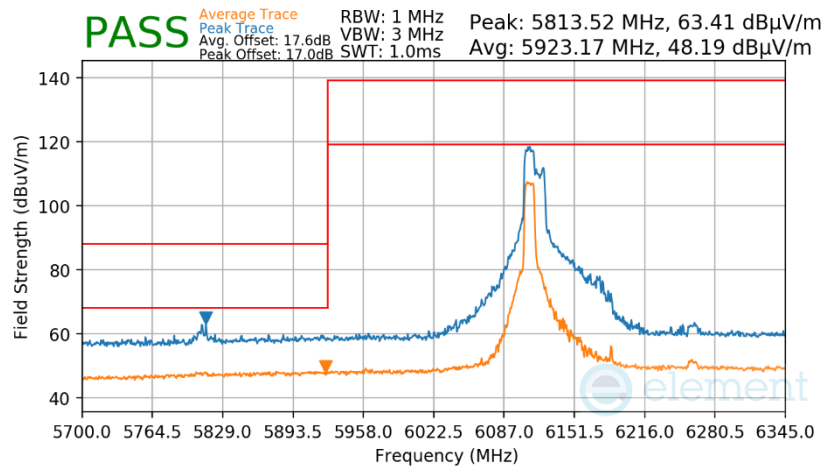
Plot 7-360 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

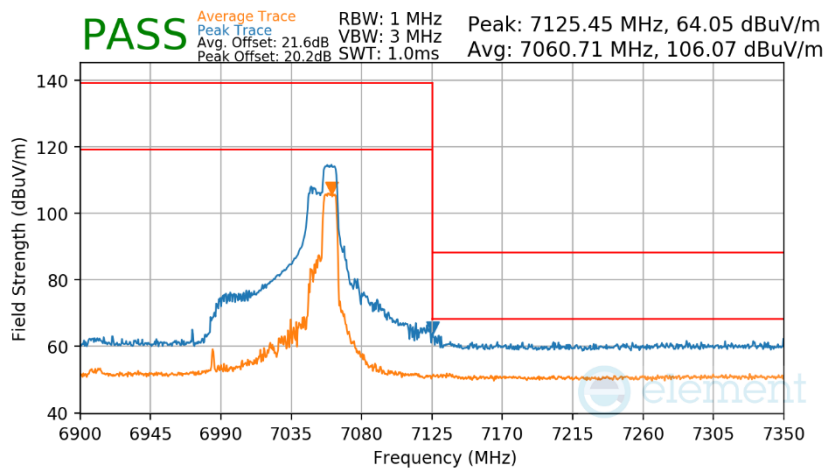
RU52/106

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	6145MHz
Channel:	47



Plot 7-361 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207

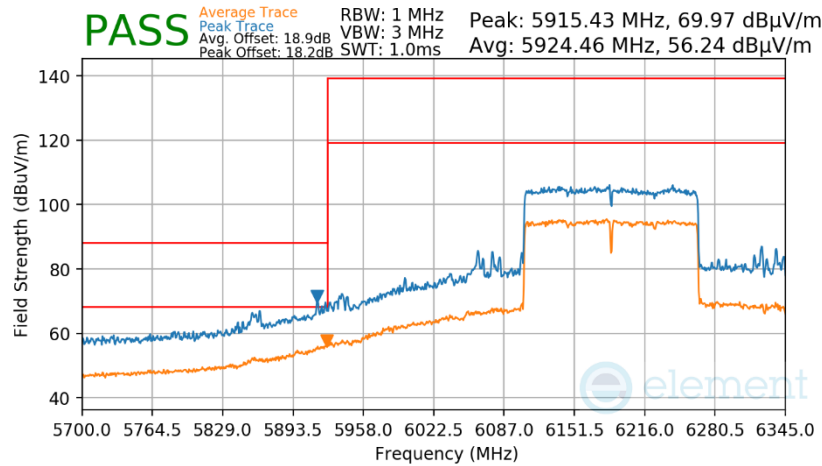


Plot 7-362 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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.		

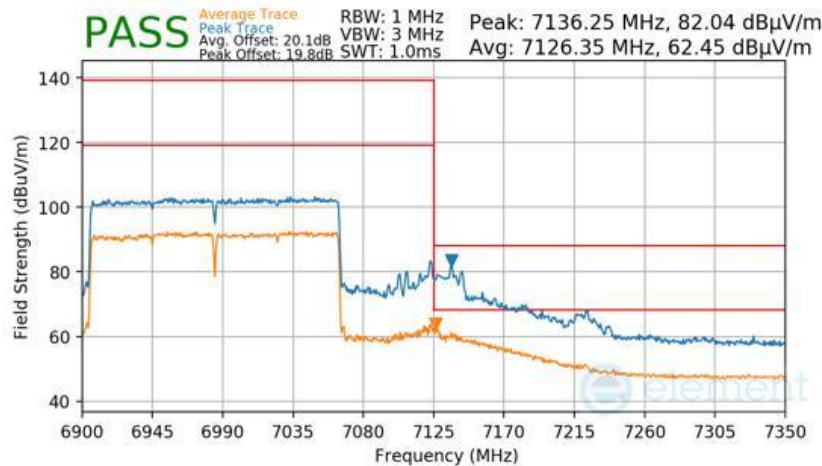
RU996x2

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6145MHz
 Channel: 47



Plot 7-363 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



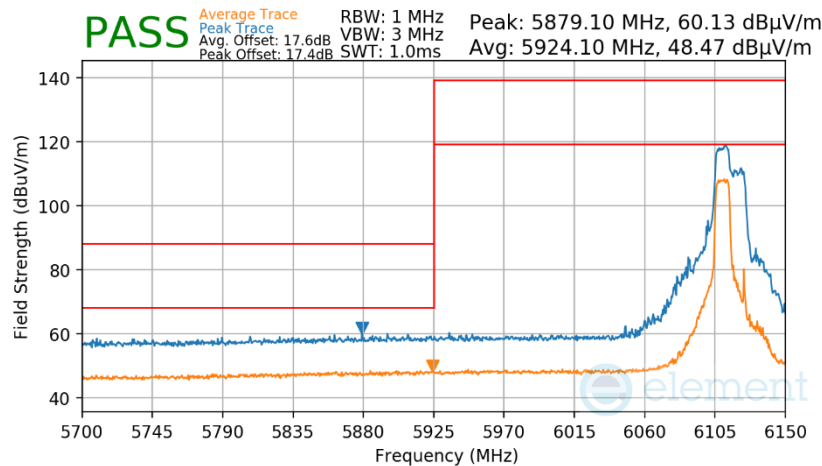
Plot 7-364 Antenna 0 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

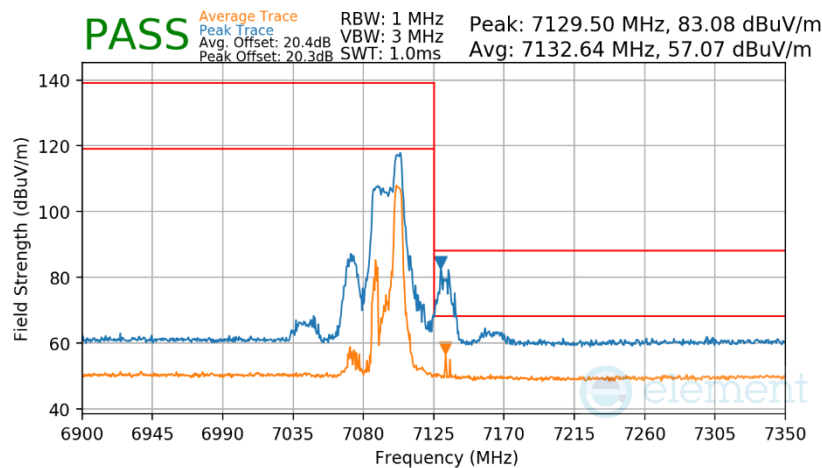
RU52/106

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	6115MHz
Channel:	33



Plot 7-365 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	40
Distance of Measurements:	3 Meters
Operating Frequency:	7095MHz
Channel:	229

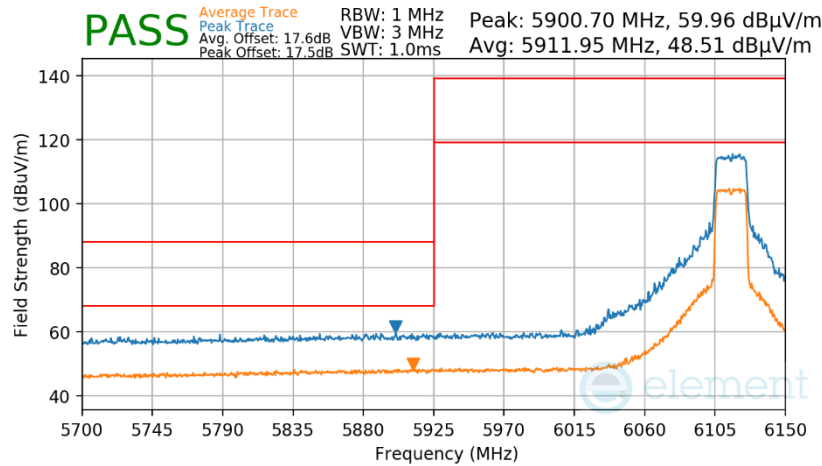


Plot 7-366 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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.		

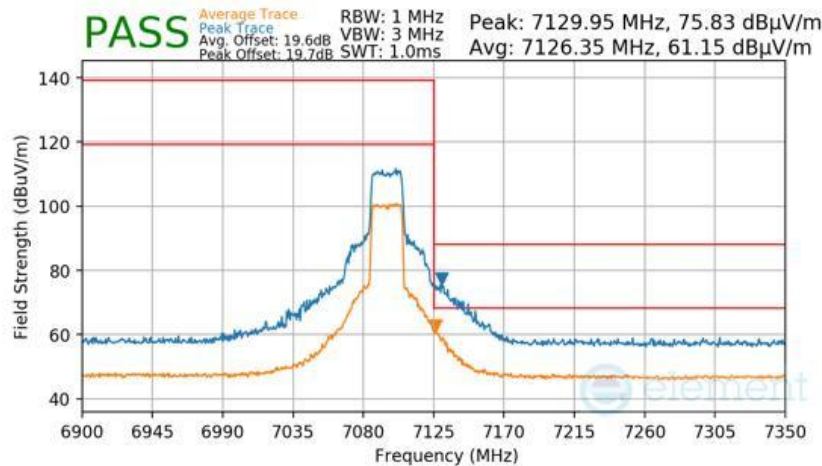
RU242

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 6115MHz
 Channel: 33



Plot 7-367 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 7095MHz
 Channel: 229



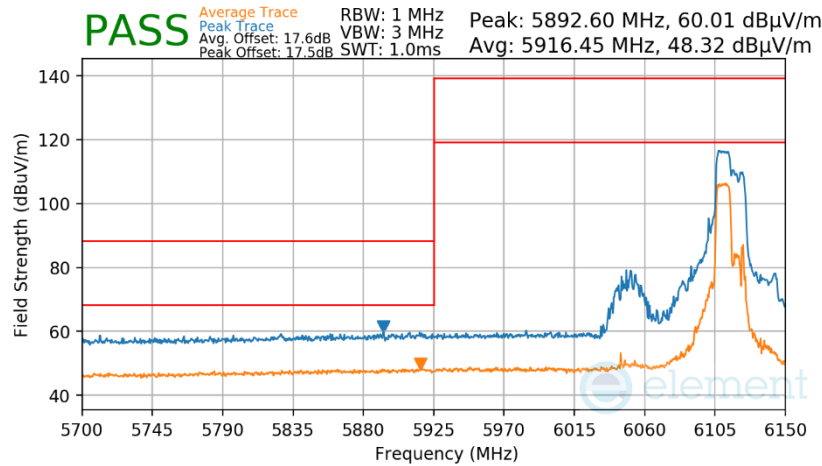
Plot 7-368 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

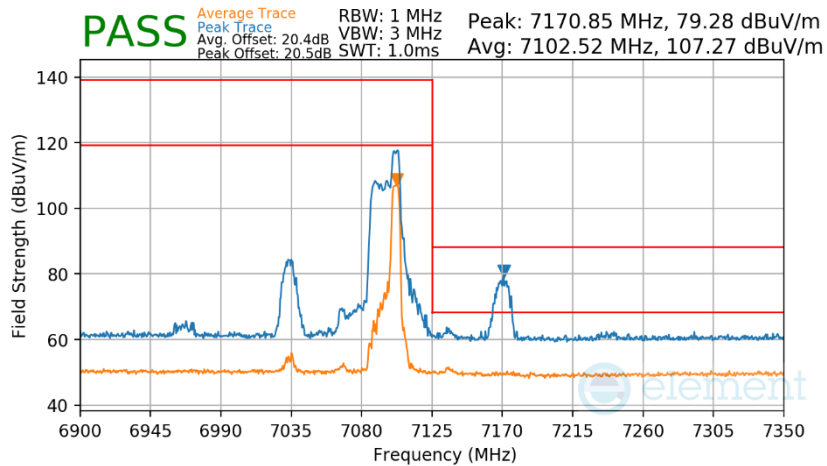
RU52/106

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 53
Distance of Measurements: 3 Meters
Operating Frequency: 6125MHz
Channel: 35



Plot 7-369 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 44
Distance of Measurements: 3 Meters
Operating Frequency: 7085MHz
Channel: 227

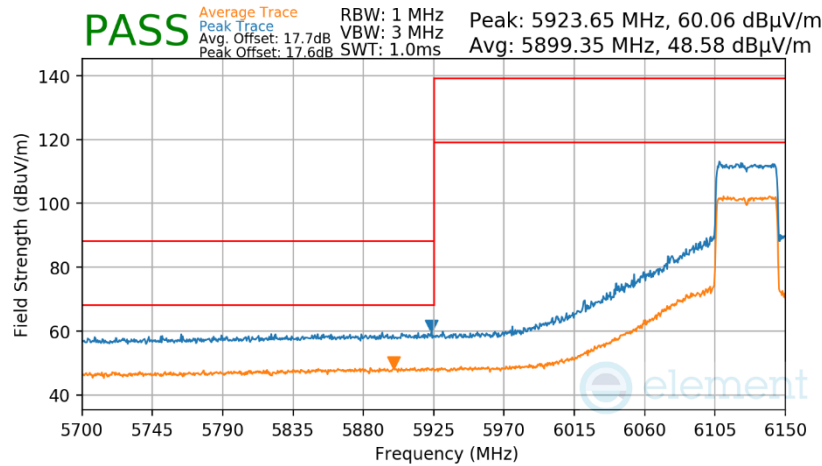


Plot 7-370 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

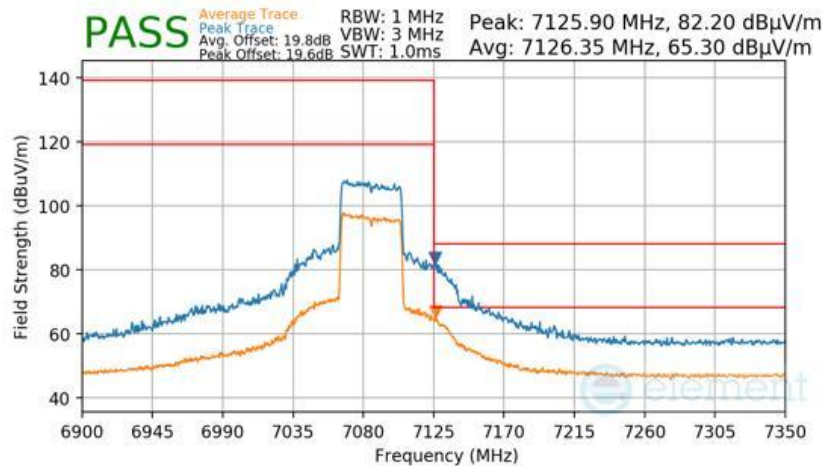
RU484

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 6125MHz
 Channel: 35



Plot 7-371 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



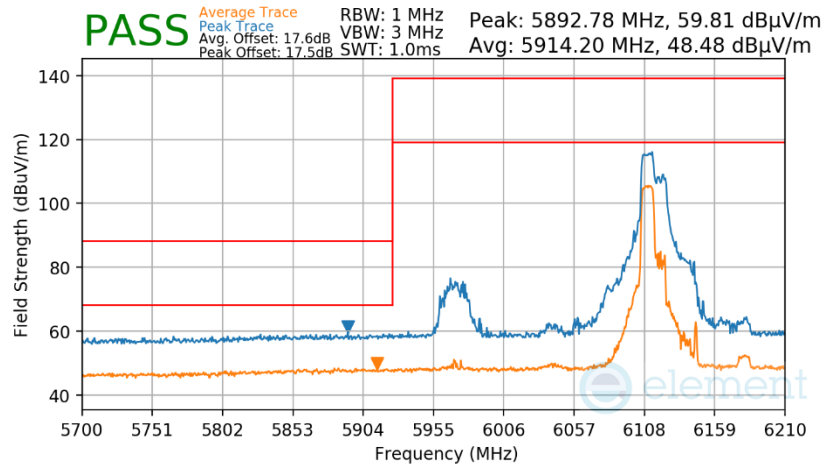
Plot 7-372 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

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

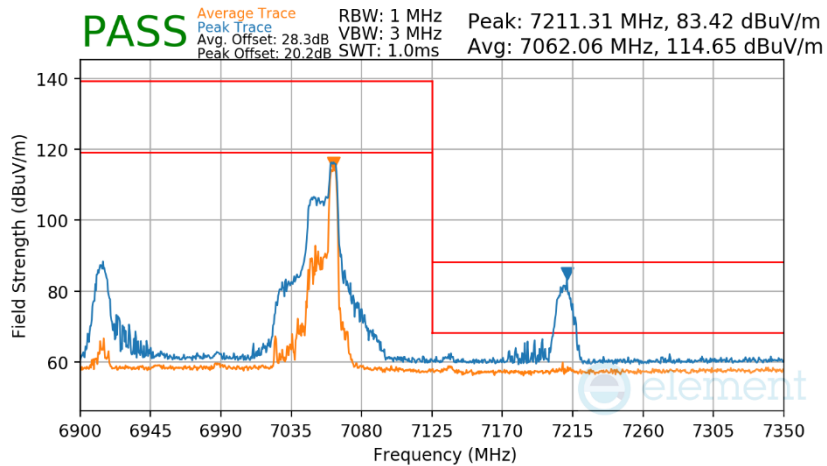
RU52/106

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 53
Distance of Measurements: 3 Meters
Operating Frequency: 6145MHz
Channel: 39



Plot 7-373 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 52
Distance of Measurements: 3 Meters
Operating Frequency: 7025MHz
Channel: 215

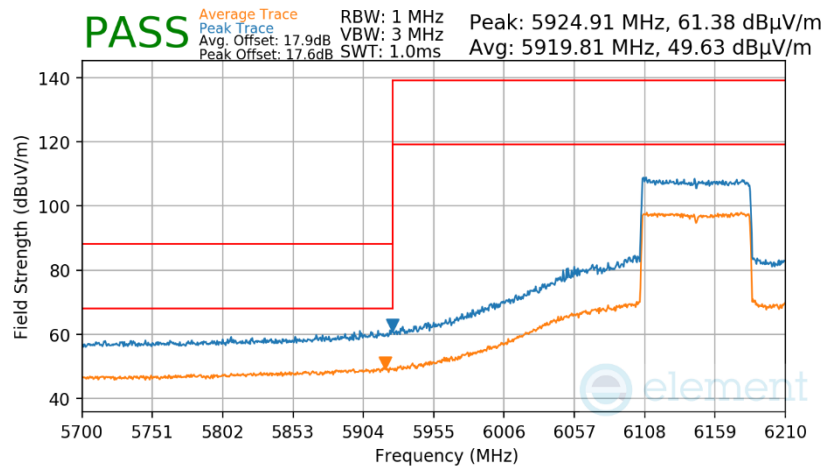


Plot 7-374 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

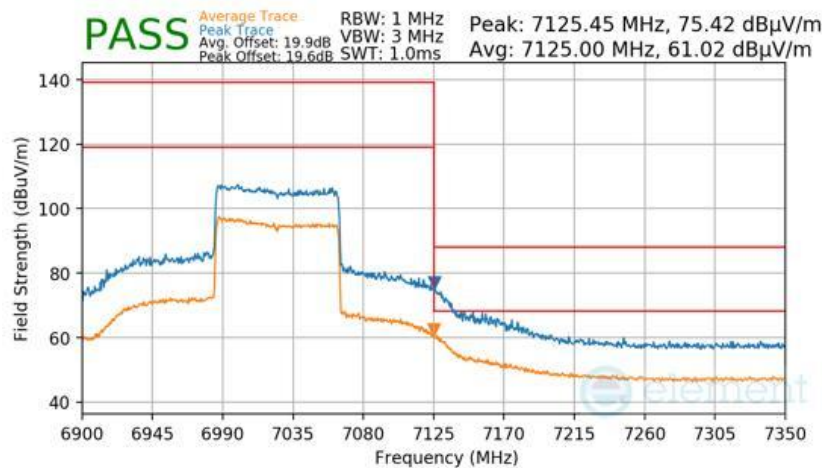
RU996

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	6145MHz
Channel:	39



Plot 7-375 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



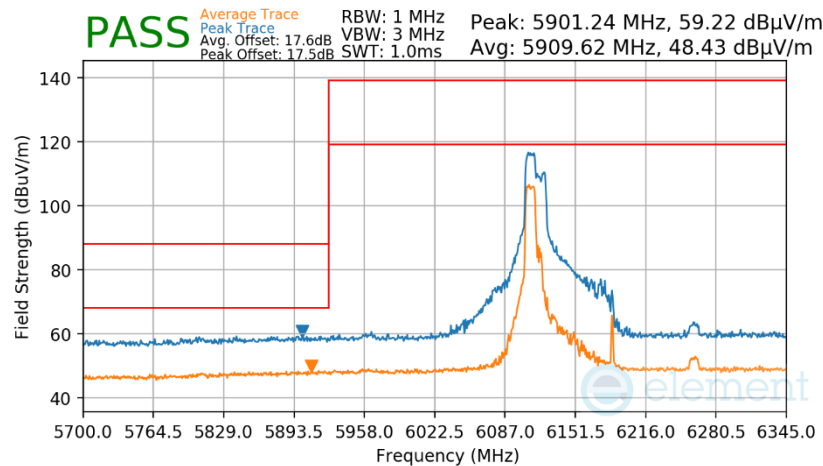
Plot 7-376 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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.		

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

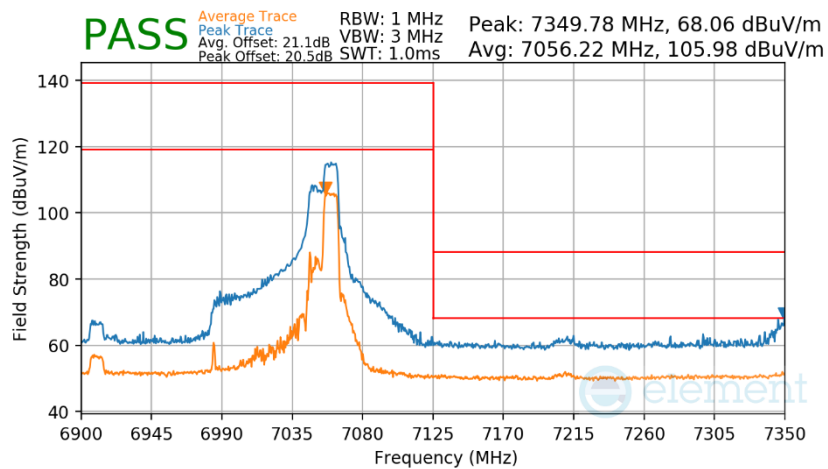
RU52/106

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 53
Distance of Measurements: 3 Meters
Operating Frequency: 6145MHz
Channel: 47



Plot 7-377 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU106)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 52
Distance of Measurements: 3 Meters
Operating Frequency: 6985MHz
Channel: 207

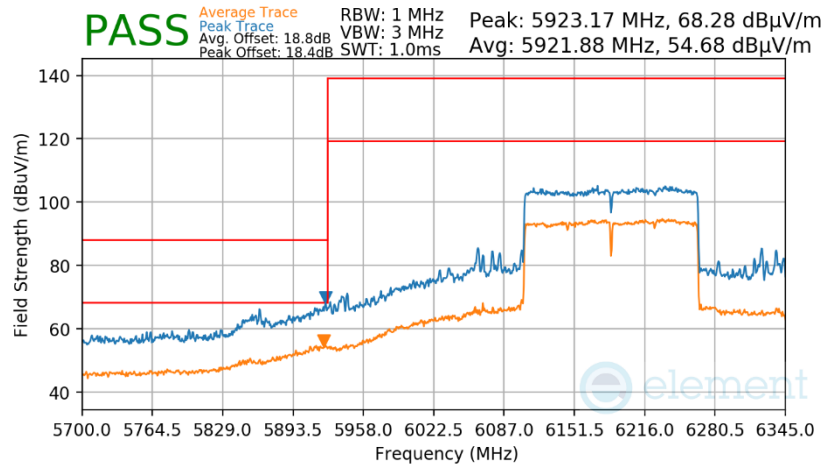


Plot 7-378 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8 – RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 180 of 198

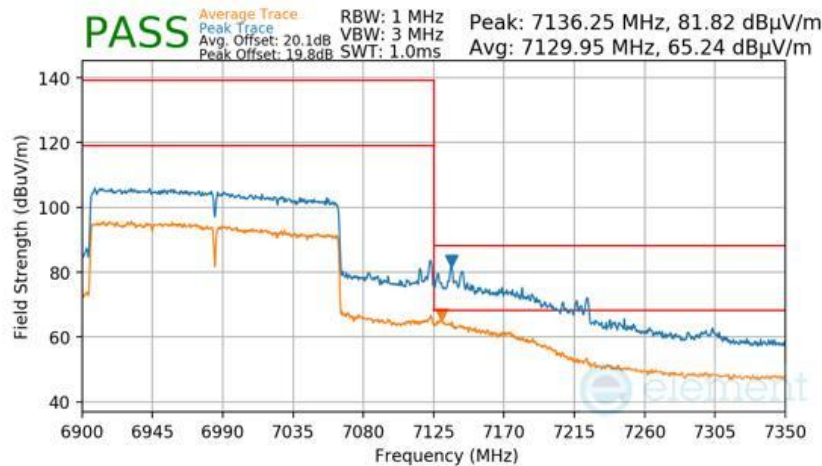
RU996x2

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6145MHz
 Channel: 47



Plot 7-379 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



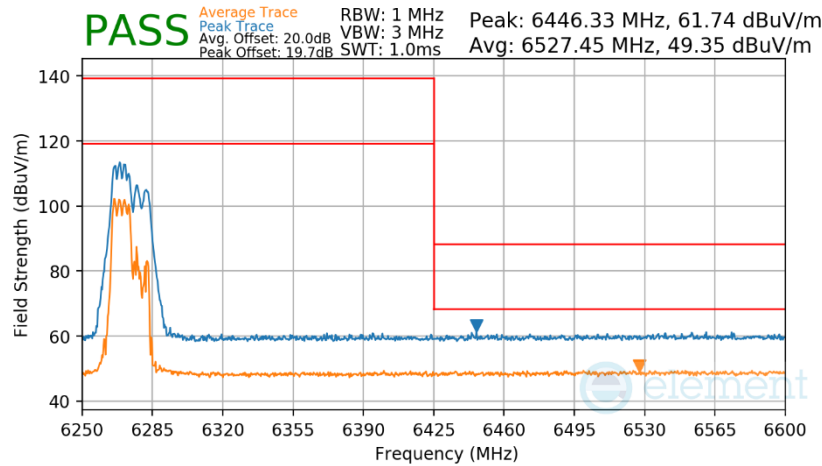
Plot 7-380 Antenna 1 Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 181 of 198

7.7.10 SDM Radiated Band Edge Measurements (20MHz BW)

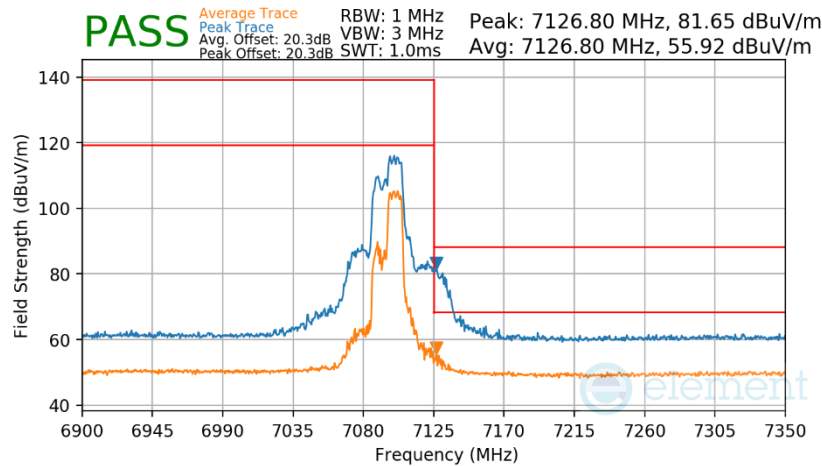
RU106

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 6275MHz
 Channel: 65



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

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 7095MHz
 Channel: 229

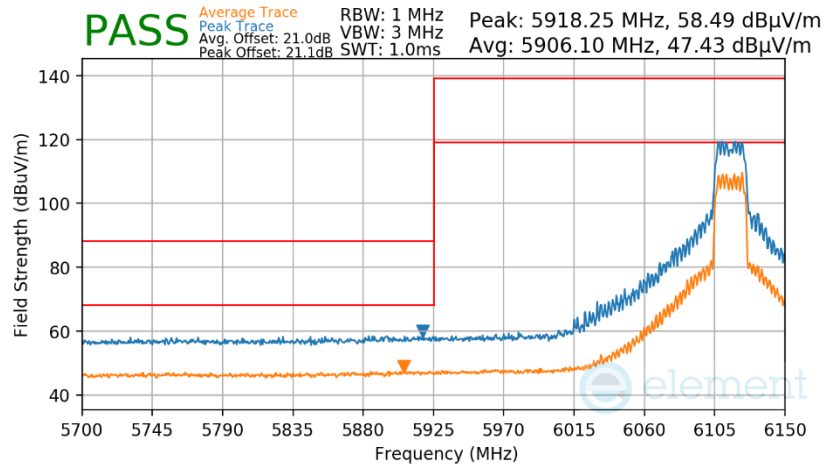


Plot 7-382 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 182 of 198

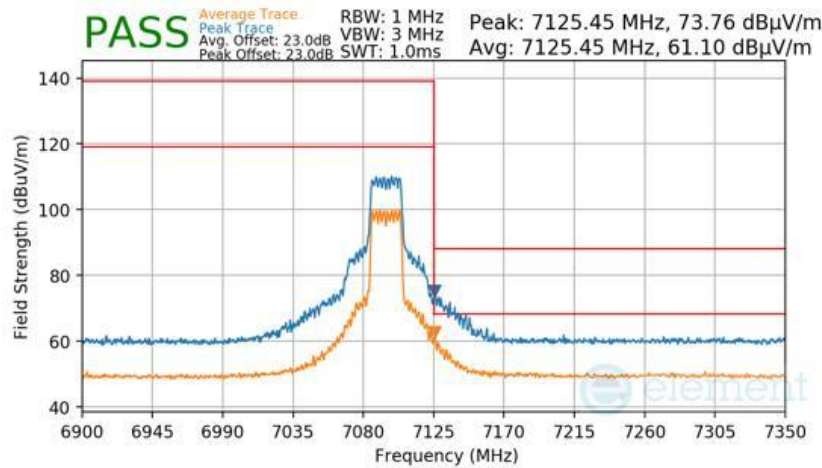
RU242

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 6115MHz
 Channel: 33



Plot 7-383 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 7095MHz
 Channel: 229



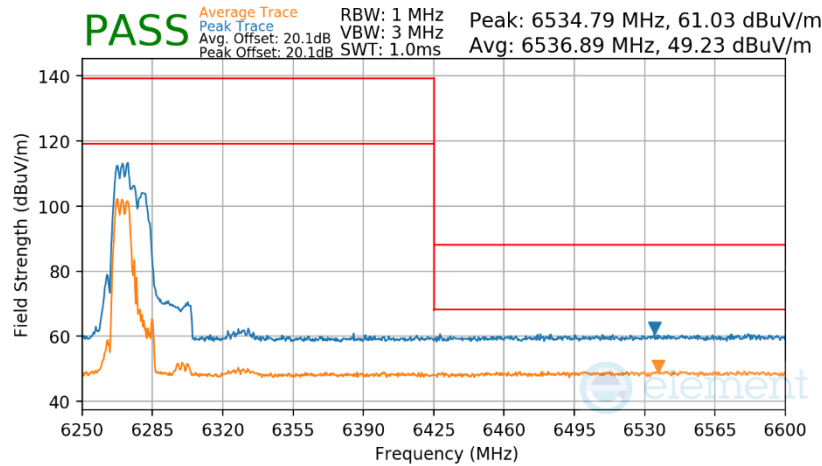
Plot 7-384 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198

7.7.11 SDM Radiated Band Edge Measurements (40MHz BW)

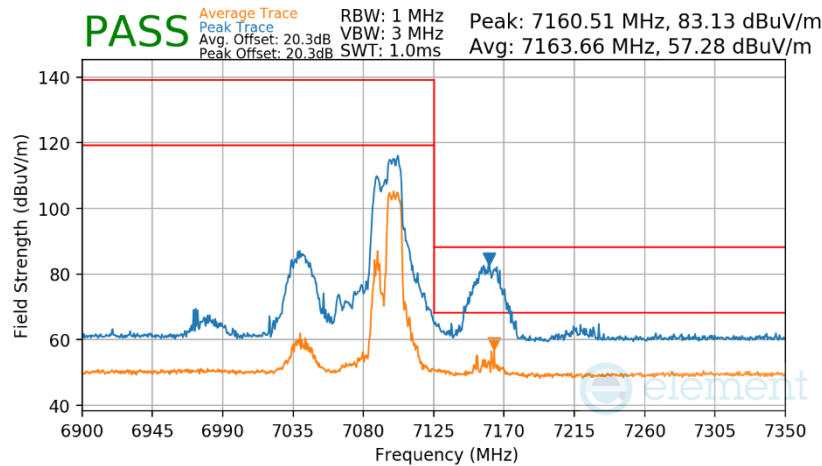
RU106

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 53
Distance of Measurements: 3 Meters
Operating Frequency: 6285MHz
Channel: 67



Plot 7-385 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 56
Distance of Measurements: 3 Meters
Operating Frequency: 7085MHz
Channel: 227

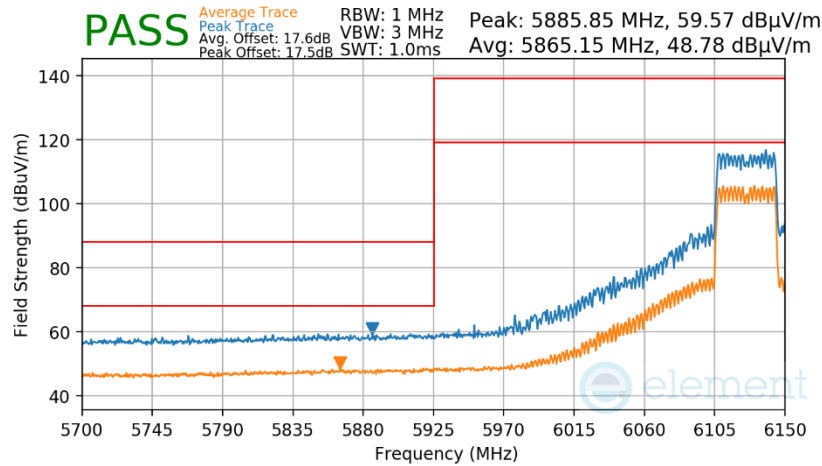


Plot 7-386 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 184 of 198

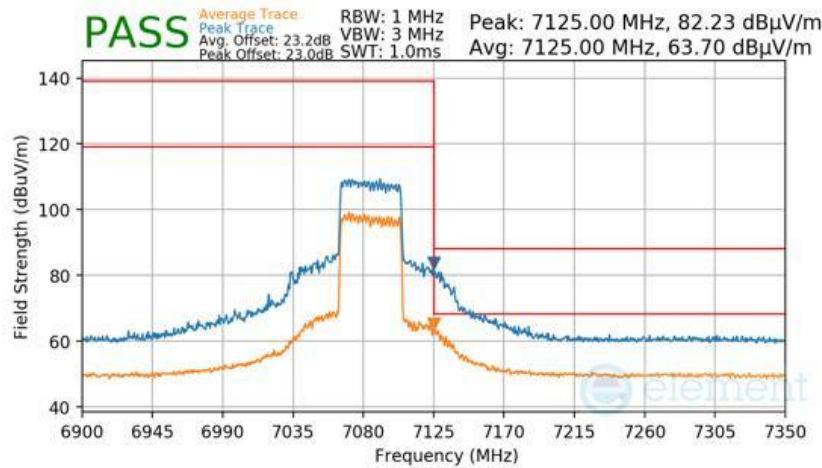
RU484

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 6125MHz
 Channel: 35



Plot 7-387 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



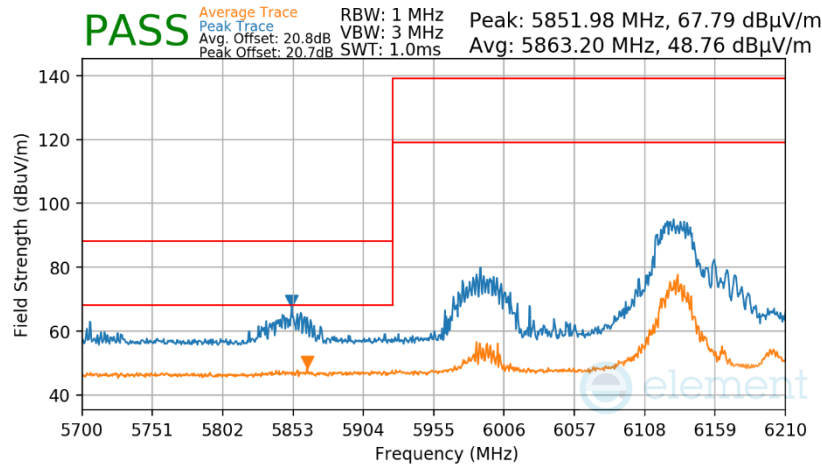
Plot 7-388 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 185 of 198

7.7.12 SDM Radiated Band Edge Measurements (80MHz BW)

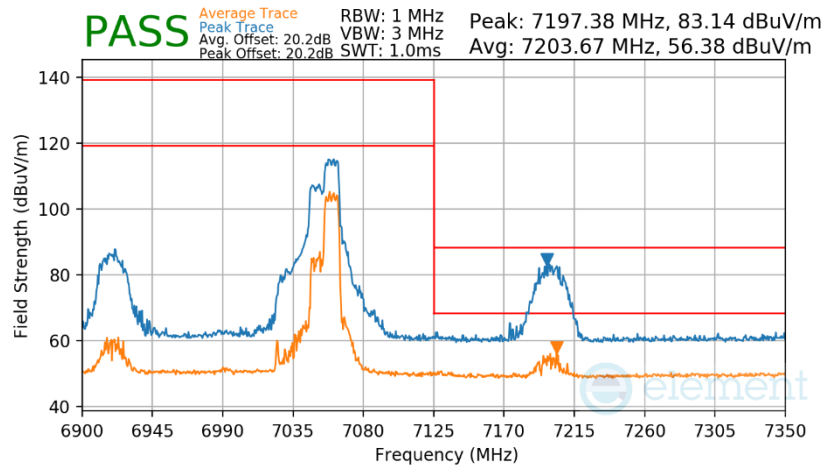
RU106

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	6305MHz
Channel:	71



Plot 7-389 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS11
RU Index:	60
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215

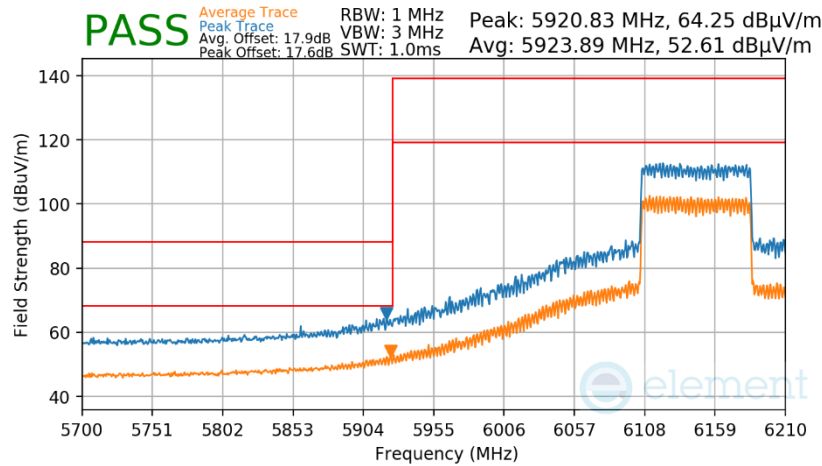


Plot 7-390 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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.		

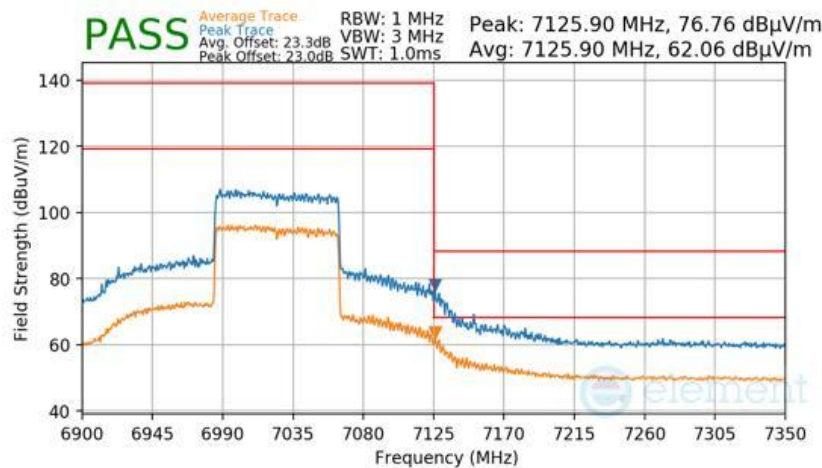
RU996

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 6145MHz
 Channel: 39



Plot 7-391 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



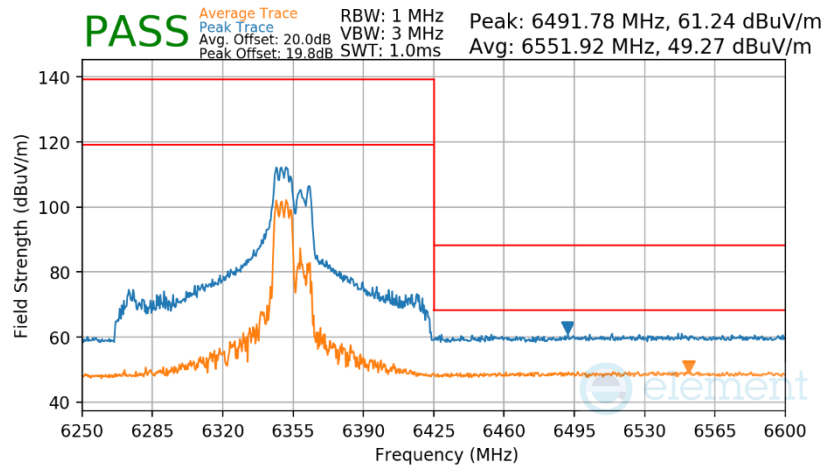
Plot 7-392 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 187 of 198

7.7.13 SDM Radiated Band Edge Measurements (160MHz BW)

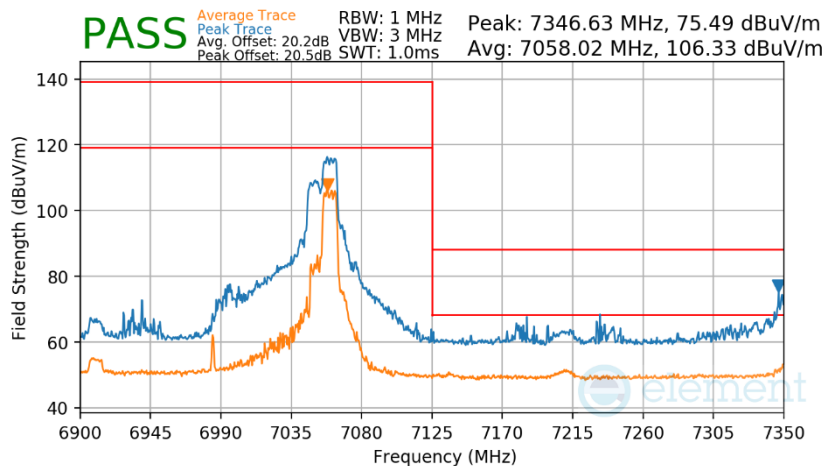
RU106

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 6345MHz
 Channel: 79



Plot 7-393 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 60
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207

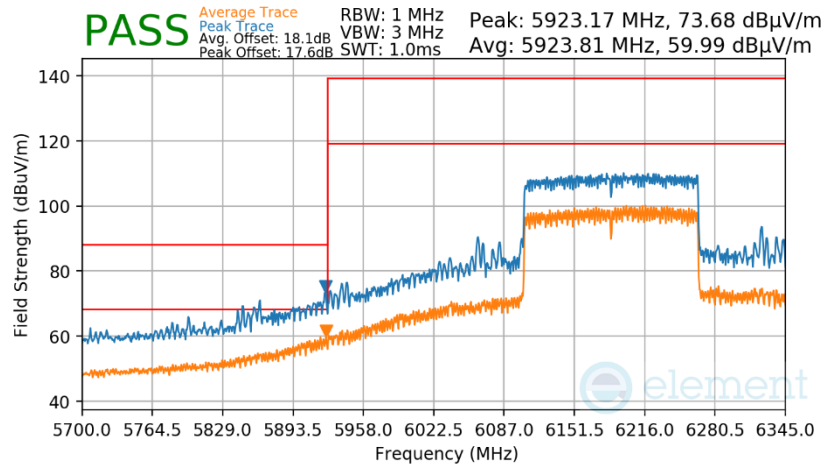


Plot 7-394 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 188 of 198

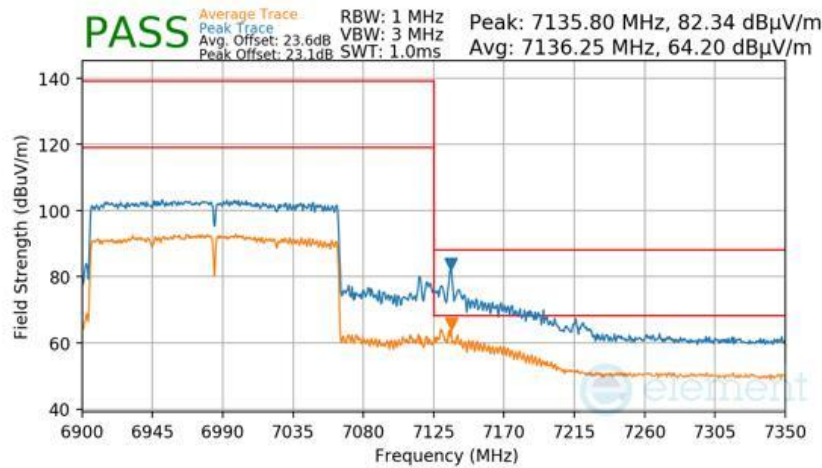
RU996x2

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6185MHz
 Channel: 47



Plot 7-395 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



Plot 7-396 SDM Radiated Higher Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 189 of 198

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 must not exceed the limits shown in Table 7-57 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 7-57. 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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 190 of 198

Test Setup

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

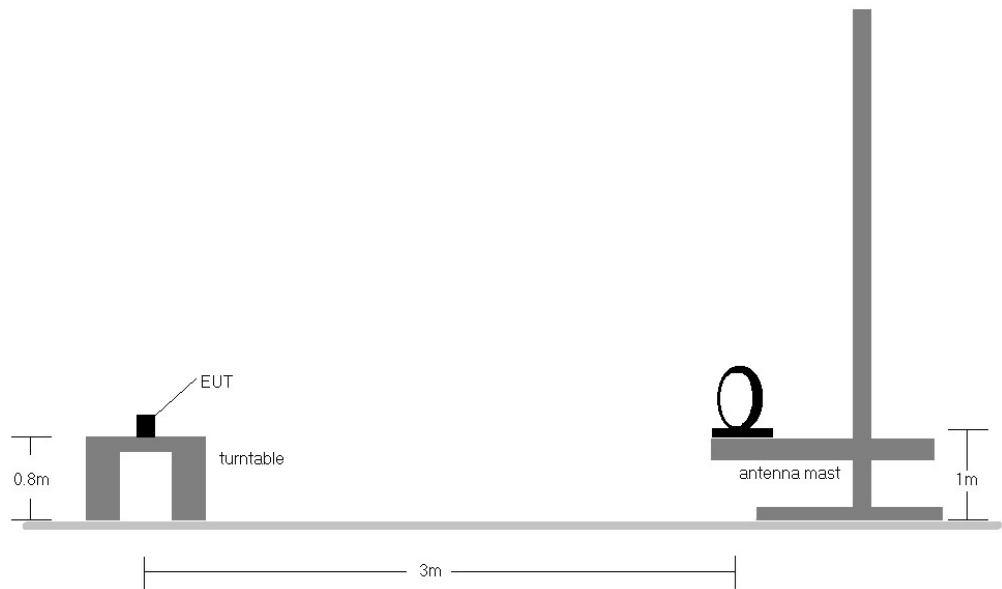


Figure 7-6. Radiated Test Setup < 30MHz

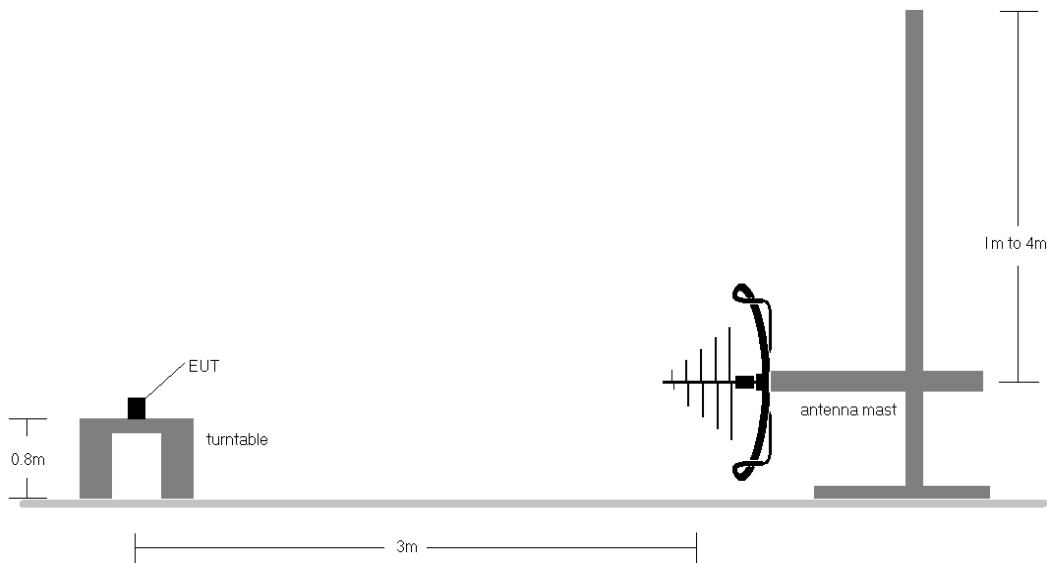


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 191 of 198

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 7-57.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through one orthogonal plane. 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 configuration below was investigated, and the worst case has been 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.

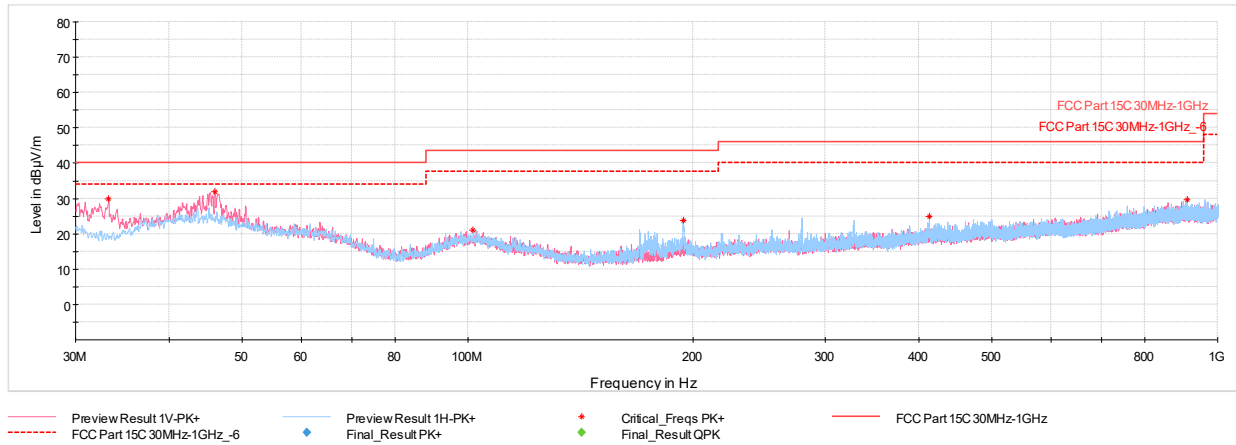
Sample Calculations

Determining Spurious Emissions Levels

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 192 of 198

7.8.1 SDM Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-397. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.61 – RU242) 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]
33.20	MaxPeak	V	100	64	-58.80	-18.36	29.84	40.00	-10.16
46.01	MaxPeak	V	100	339	-60.59	-14.46	31.95	40.00	-8.05
101.64	MaxPeak	H	200	13	-69.55	-16.45	21.00	43.52	-22.52
193.79	MaxPeak	H	200	8	-67.19	-16.08	23.73	43.52	-19.79
412.71	MaxPeak	H	200	206	-72.03	-10.08	24.89	46.02	-21.13
910.37	MaxPeak	H	100	288	-75.88	-1.41	29.71	46.02	-16.31

Table 7-58. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.61 – RU242) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 193 of 198

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 7-59. 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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 194 of 198

Test Setup

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

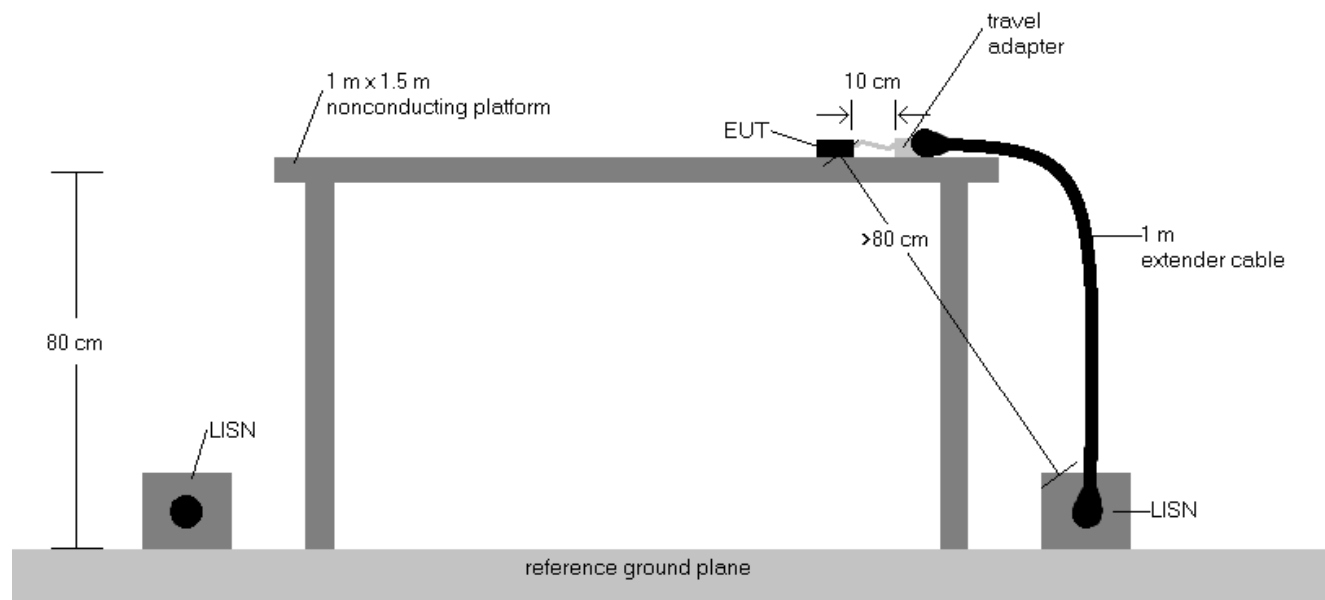


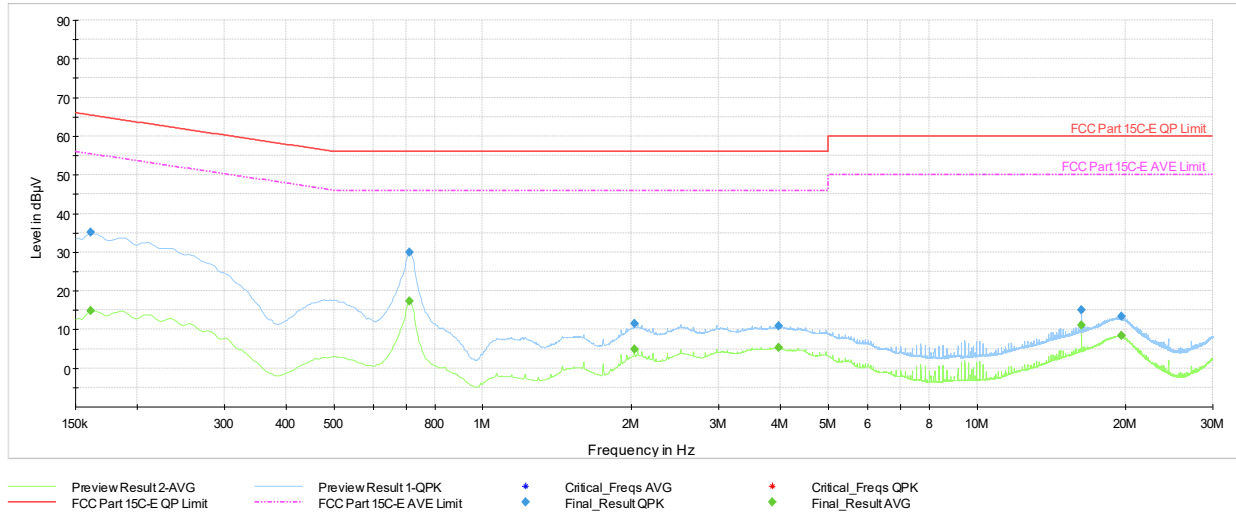
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- The configuration below was investigated, and the worst case has been reported.
 - EUT powered by an AC/DC Adapter via USB-C cable
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (7.4.2).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plots are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.
- The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.9.1 SDM Line-Conducted Emissions Measurements

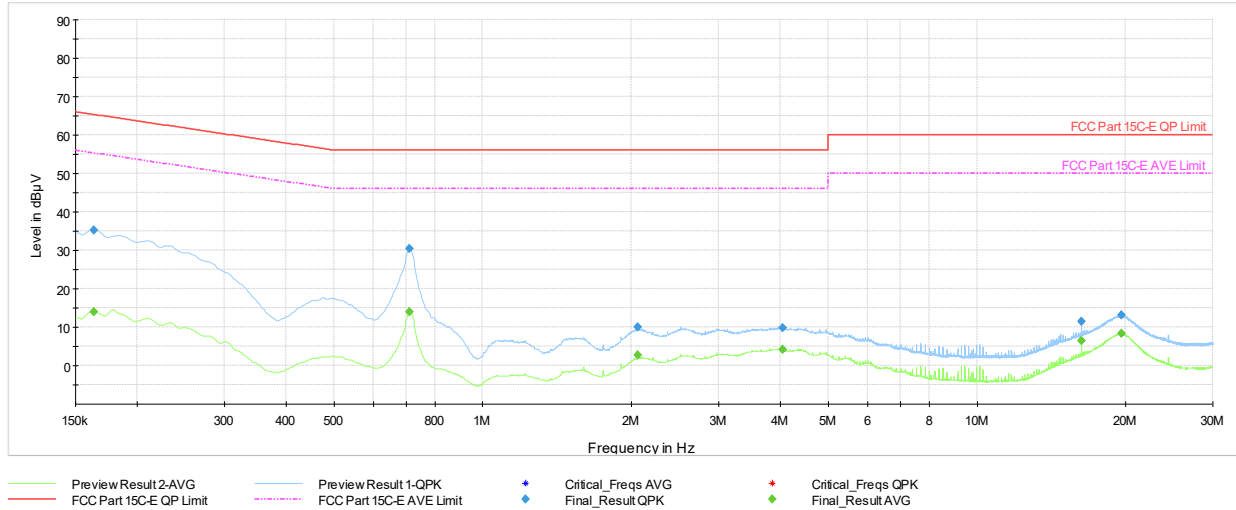


Plot 7-398. AC Line Conducted Plot with 11ax SDM UNII Band 5 – RU242 – Ch.61 (L1) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	—	14.90	55.40	-40.50	L1	GND
0.161	FINAL	35.1	—	65.40	-30.33	L1	GND
0.710	FINAL	—	17.23	46.00	-28.77	L1	GND
0.710	FINAL	30.1	—	56.00	-25.95	L1	GND
2.027	FINAL	—	5.01	46.00	-40.99	L1	GND
2.027	FINAL	11.6	—	56.00	-44.40	L1	GND
3.964	FINAL	10.9	—	56.00	-45.13	L1	GND
3.964	FINAL	—	5.41	46.00	-40.59	L1	GND
16.262	FINAL	15.0	—	60.00	-44.99	L1	GND
16.262	FINAL	—	11.13	50.00	-38.87	L1	GND
19.588	FINAL	—	8.49	50.00	-41.51	L1	GND
19.588	FINAL	13.4	—	60.00	-46.56	L1	GND

Table 7-60. AC Line Conducted Data with 11ax SDM UNII Band 5 – RU242 – Ch.61 (L1) with AC/DC Adapter via USB-C cable

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Plot 7-399. AC Line Conducted Plot with 11ax SDM UNII Band 5 – RU242 – Ch.61 (N) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	—	13.99	55.28	-41.29	N	GND
0.164	FINAL	35.3	—	65.28	-29.97	N	GND
0.710	FINAL	—	13.99	46.00	-32.01	N	GND
0.710	FINAL	30.4	—	56.00	-25.56	N	GND
2.058	FINAL	—	2.70	46.00	-43.30	N	GND
2.058	FINAL	10.0	—	56.00	-46.00	N	GND
4.040	FINAL	9.9	—	56.00	-46.12	N	GND
4.040	FINAL	—	4.21	46.00	-41.79	N	GND
16.258	FINAL	11.4	—	60.00	-48.62	N	GND
16.258	FINAL	—	6.41	50.00	-43.59	N	GND
19.586	FINAL	—	8.41	50.00	-41.59	N	GND
19.586	FINAL	13.2	—	60.00	-46.85	N	GND

Table 7-61. AC Line Conducted Data with 11ax SDM UNII Band 5 – RU242 – Ch.61 (N) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	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: BCGA3300** and **IC: 579C-A3300** 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: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.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 198 of 198