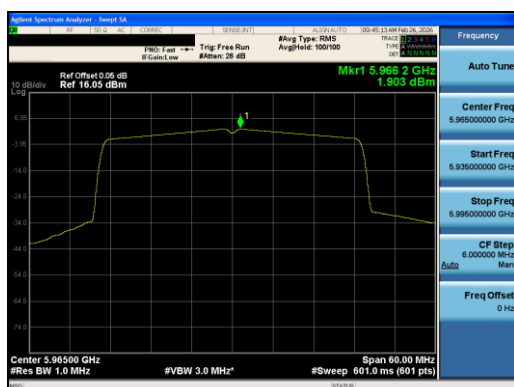
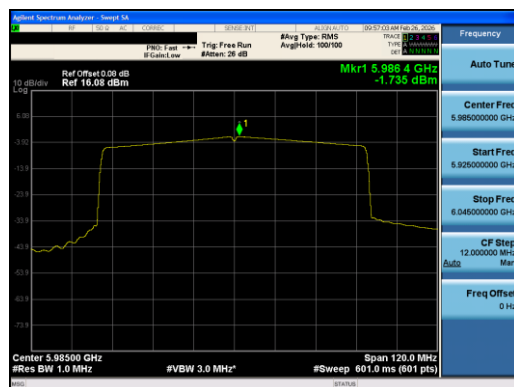
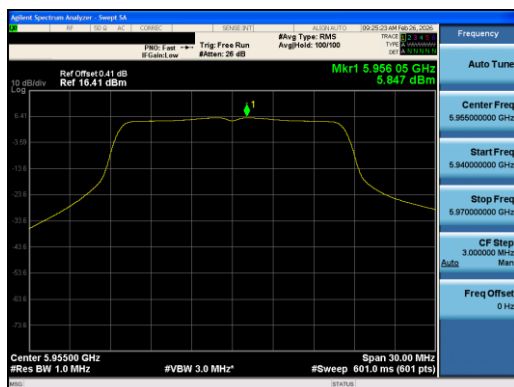
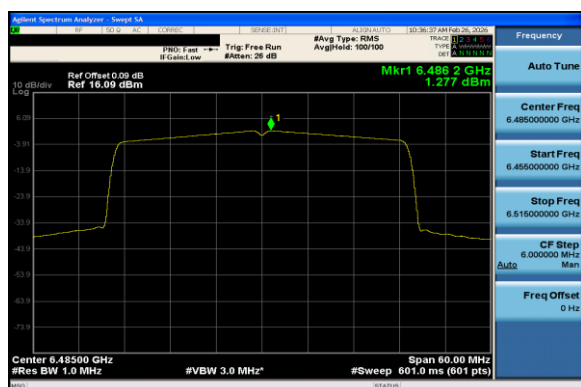
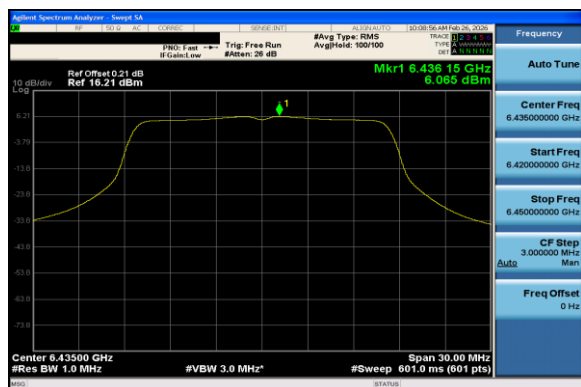
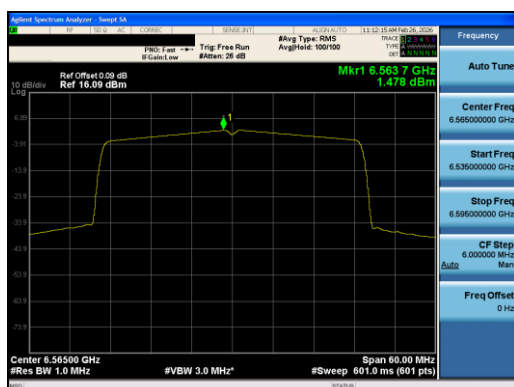
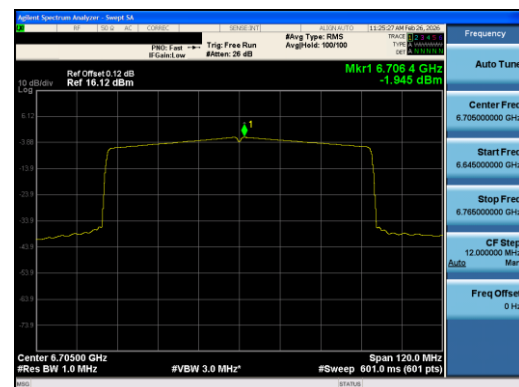
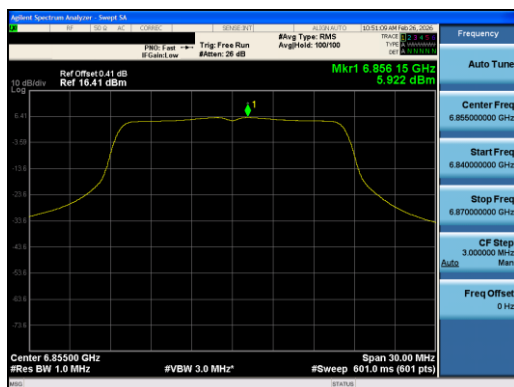




FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 60 of 169



FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 61 of 169



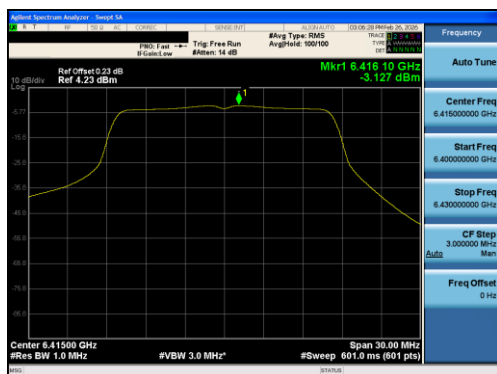
FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 62 of 169

7.4.4 Antenna 1 Power Spectral Density Measurements – LPI

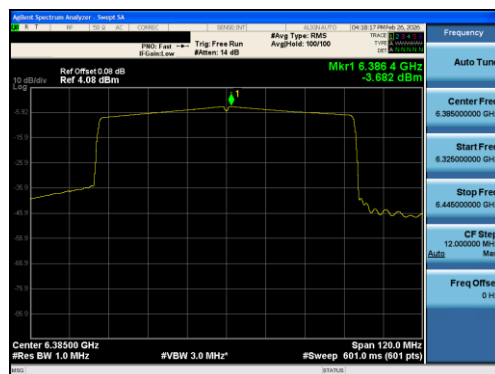
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	36Mbps	-7.31	3.61	-3.70	-1	-2.70
	6175	45	a	12Mbps	-4.04	0.03	-4.01	-1	-3.01
	6415	93	a	6Mbps	-3.13	-0.48	-3.61	-1	-2.61
	5955	1	ax (20MHz)	MCS2	-7.14	3.61	-3.53	-1	-2.53
	6175	45	ax (20MHz)	MCS4	-4.37	0.03	-4.34	-1	-3.34
	6415	93	ax (20MHz)	MCS2	-3.17	-0.48	-3.65	-1	-2.65
	5965	3	ax (40MHz)	MCS2	-7.50	3.61	-3.89	-1	-2.89
	6165	43	ax (40MHz)	MCS2	-4.05	0.03	-4.02	-1	-3.02
	6405	91	ax (40MHz)	MCS2	-3.82	-0.48	-4.30	-1	-3.30
	5985	7	ax (80MHz)	MCS2	-7.15	3.61	-3.54	-1	-2.54
Band 6	6145	39	ax (80MHz)	MCS2	-4.19	0.03	-4.16	-1	-3.16
	6385	87	ax (80MHz)	MCS2	-3.68	-0.48	-4.16	-1	-3.16
	6435	97	a	6Mbps	-3.70	-0.51	-4.21	-1	-3.21
	6475	105	a	36Mbps	-3.89	-0.51	-4.40	-1	-3.40
	6515	113	a	12Mbps	-4.37	-0.51	-4.88	-1	-3.88
	6435	97	ax (20MHz)	MCS2	-4.05	-0.51	-4.56	-1	-3.56
	6475	105	ax (20MHz)	MCS4	-4.03	-0.51	-4.54	-1	-3.54
	6515	113	ax (20MHz)	MCS4	-4.67	-0.51	-5.18	-1	-4.18
	6445	99	ax (40MHz)	MCS4	-3.96	-0.51	-4.47	-1	-3.47
	6485	107	ax (40MHz)	MCS4	-4.28	-0.51	-4.79	-1	-3.79
Band 7	6525	115	ax (40MHz)	MCS4	-4.60	-0.51	-5.11	-1	-4.11
	6465	103	ax (80MHz)	MCS2	-4.57	-0.51	-5.08	-1	-4.08
	6535	117	a	12Mbps	-4.82	-0.10	-4.92	-1	-3.92
	6695	149	a	12Mbps	-4.71	-0.10	-4.81	-1	-3.81
	6875	185	a	6Mbps	-4.42	-0.10	-4.52	-1	-3.52
	6535	117	ax (20MHz)	MCS2	-5.10	-0.10	-5.20	-1	-4.20
	6695	149	ax (20MHz)	MCS2	-4.99	-0.10	-5.09	-1	-4.09
	6875	185	ax (20MHz)	MCS4	-4.53	-0.10	-4.63	-1	-3.63
	6565	123	ax (40MHz)	MCS4	-5.03	-0.10	-5.13	-1	-4.13
	6725	155	ax (40MHz)	MCS2	-4.29	-0.10	-4.39	-1	-3.39
Band 8	6845	179	ax (40MHz)	MCS4	-5.20	-0.10	-5.30	-1	-4.30
	6545	119	ax (80MHz)	MCS2	-5.42	-0.10	-5.52	-1	-4.52
	6705	151	ax (80MHz)	MCS2	-4.85	-0.10	-4.95	-1	-3.95
	6865	183	ax (80MHz)	MCS2	-4.76	-0.10	-4.86	-1	-3.86
	6895	189	a	6Mbps	-3.48	-0.35	-3.83	-1	-2.83
	6995	209	a	12Mbps	-3.08	-0.35	-3.43	-1	-2.43
	7115	233	a	12Mbps	-3.22	-0.35	-3.57	-1	-2.57
	6895	189	ax (20MHz)	MCS2	-3.56	-0.35	-3.91	-1	-2.91
	6995	209	ax (20MHz)	MCS4	-3.32	-0.35	-3.67	-1	-2.67
	7115	233	ax (20MHz)	MCS2	-4.02	-0.35	-4.37	-1	-3.37
	6885	187	ax (40MHz)	MCS4	-4.92	-0.35	-5.27	-1	-4.27
	7005	211	ax (40MHz)	MCS4	-4.02	-0.35	-4.37	-1	-3.37
	7085	227	ax (40MHz)	MCS2	-4.16	-0.35	-4.51	-1	-3.51
	6945	199	ax (80MHz)	MCS2	-3.34	-0.35	-3.69	-1	-2.69
	7025	215	ax (80MHz)	MCS2	-3.45	-0.35	-3.80	-1	-2.80

Table 7-31. Power Spectral Density Measurements Antenna 1

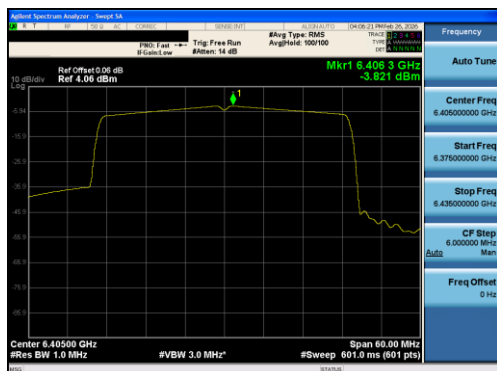
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 63 of 169



Plot 7-73 PSD Antenna 0 (20MHz BW 802.11a - Ch.93)

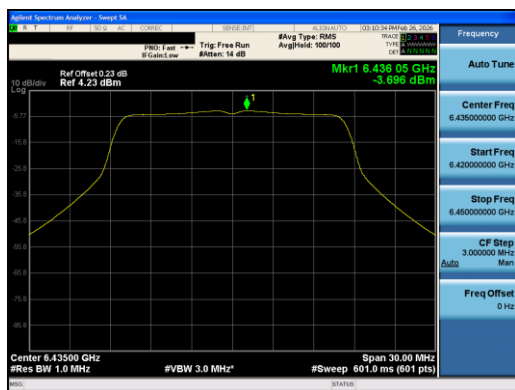


Plot 7-74 PSD Antenna 0 (80MHz BW 802.11ax(SU) - Ch.87)

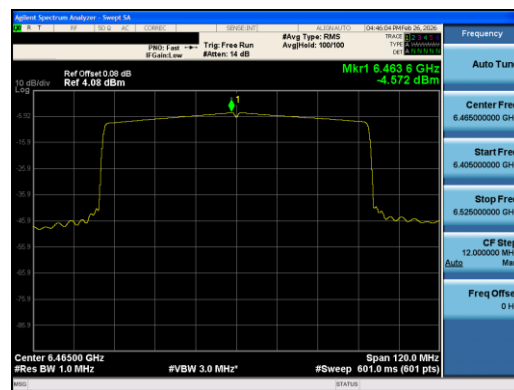


Plot 7-75 PSD Antenna 0 (40MHz BW 802.11ax(SU) - Ch.91)

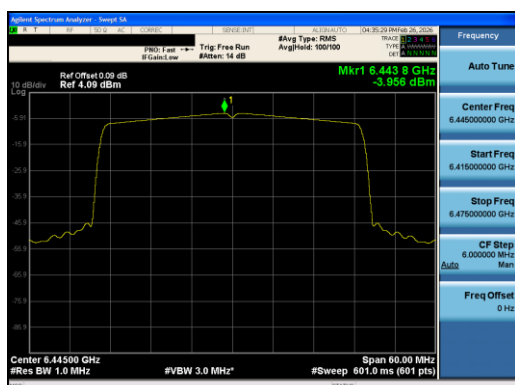
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 64 of 169



Plot 7-76 PSD Antenna 0 (20MHz BW 802.11a - Ch.97)

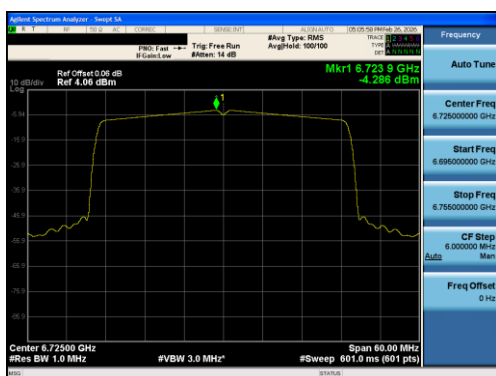
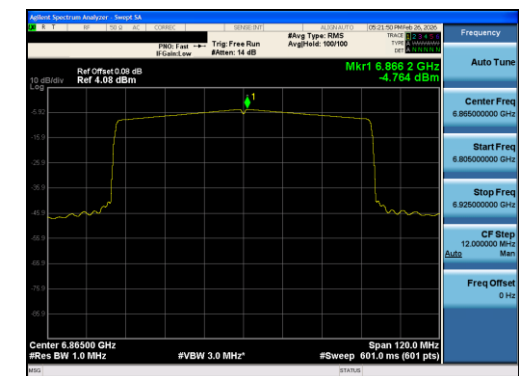
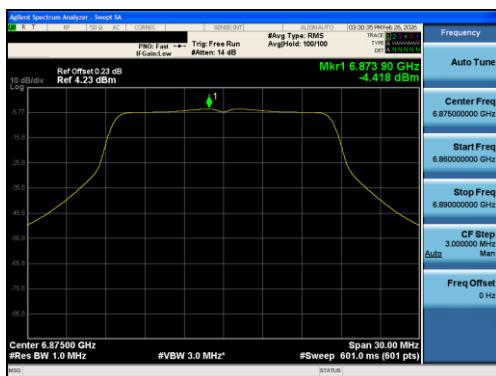


Plot 7-77 PSD Antenna 0 (80MHz BW 802.11ax(SU) - Ch.103)

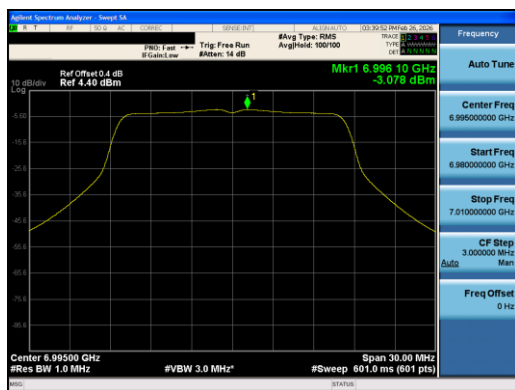


Plot 7-78 PSD Antenna 0 (40MHz BW 802.11ax(SU) - Ch.99)

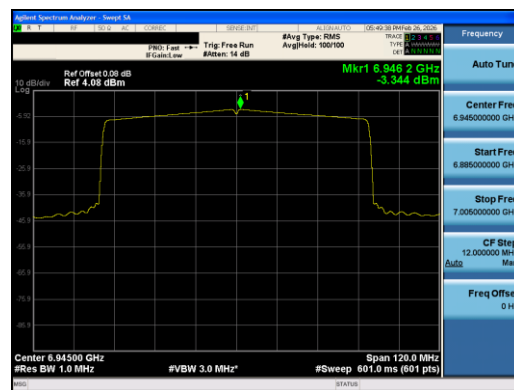
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 65 of 169



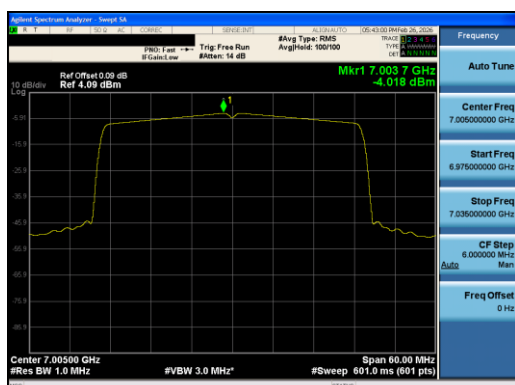
FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 66 of 169



Plot 7-82 PSD Antenna 0 (20MHz BW 802.11a - Ch.209)



Plot 7-83 PSD Antenna 0 (80MHz BW 802.11ax(SU) - Ch.199)



Plot 7-84 PSD Antenna 0 (40MHz BW 802.11ax(SU) - Ch.211)

FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 67 of 169

7.4.5 CDD Power Spectral Density Measurements – SP

	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna 0 Measured Power Density [dBm/MHz]	Antenna 1 Measured Power Density [dBm/MHz]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	ax (20MHz)	CDD	MCS4	4.52	4.05	7.30	6.27	13.57	17	-3.43
	6175	45	ax (20MHz)	CDD	MCS2	3.86	4.22	7.05	3.45	10.50	17	-6.50
	6415	93	ax (20MHz)	CDD	MCS4	3.96	3.89	6.94	2.84	9.78	17	-7.22
	5965	3	ax (40MHz)	CDD	MCS2	2.34	1.90	5.13	6.27	11.41	17	-5.59
	6165	43	ax (40MHz)	CDD	MCS4	1.54	2.16	4.87	3.45	8.32	17	-8.68
	6405	91	ax (40MHz)	CDD	MCS4	0.85	1.29	4.08	2.84	6.92	17	-10.08
	5985	7	ax (80MHz)	CDD	MCS2	-1.48	-1.66	1.44	6.27	7.71	17	-9.29
	6145	39	ax (80MHz)	CDD	MCS4	-2.06	-1.16	1.43	3.45	4.88	17	-12.12
Band 6	6385	87	ax (80MHz)	CDD	MCS4	-2.20	-2.24	0.79	2.84	3.63	17	-13.37
	6435	97	ax (20MHz)	CDD	MCS4	4.23	4.22	7.24	3.02	10.26	17	-6.74
	6475	105	ax (20MHz)	CDD	MCS4	4.02	3.67	6.86	3.02	9.88	17	-7.12
	6515	113	ax (20MHz)	CDD	MCS4	4.03	3.50	6.78	3.02	9.80	17	-7.20
	6445	99	ax (40MHz)	CDD	MCS2	1.18	0.96	4.08	3.02	7.10	17	-9.90
	6485	107	ax (40MHz)	CDD	MCS2	0.68	0.70	3.70	3.02	6.72	17	-10.28
	6525	115	ax (40MHz)	CDD	MCS2	0.93	0.91	3.93	3.02	6.95	17	-10.05
	6465	103	ax (80MHz)	CDD	MCS2	-1.50	-1.23	1.65	3.02	4.67	17	-12.33
Band 7	6535	117	ax (20MHz)	CDD	MCS4	3.78	2.96	6.40	3.52	9.92	17	-7.08
	6695	149	ax (20MHz)	CDD	MCS2	3.52	3.69	6.62	3.52	10.14	17	-6.86
	6855	181	ax (20MHz)	CDD	MCS2	3.59	2.97	6.30	3.52	9.82	17	-7.18
	6565	123	ax (40MHz)	CDD	MCS4	1.06	0.46	3.78	3.52	7.30	17	-9.70
	6725	155	ax (40MHz)	CDD	MCS4	1.35	1.20	4.28	3.52	7.80	17	-9.20
	6845	179	ax (40MHz)	CDD	MCS4	1.25	1.02	4.15	3.52	7.67	17	-9.33
	6545	119	ax (80MHz)	CDD	MCS4	-2.32	-1.88	0.92	3.52	4.44	17	-12.56
	6705	151	ax (80MHz)	CDD	MCS4	-1.69	-2.17	1.09	3.52	4.61	17	-12.39
	6785	167	ax (80MHz)	CDD	MCS2	-2.35	-2.03	0.82	3.52	4.34	17	-12.66

Table 7-32. Power Spectral Density Measurements CDD

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 68 of 169



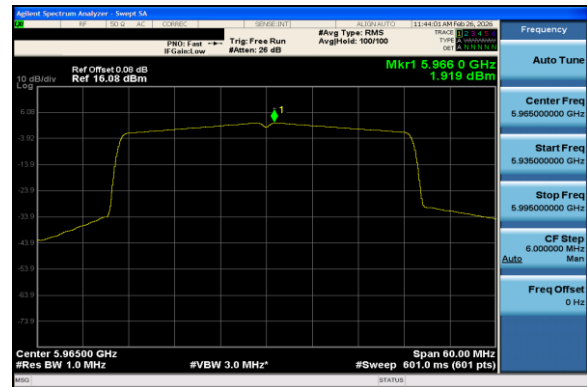
Plot 7-85 PSD CDD Antenna 0 (20MHz BW 802.11ax(SU) - Ch.1)



Plot 7-88 PSD CDD Antenna 1 (20MHz BW 802.11ax(SU) - Ch.1)



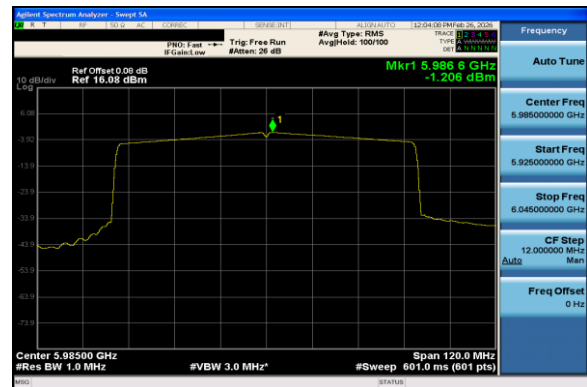
Plot 7-86 PSD CDD Antenna 0 (40MHz BW 802.11ax(SU) - Ch.3)



Plot 7-89 PSD CDD Antenna 1 (40MHz BW 802.11ax(SU) - Ch.3)

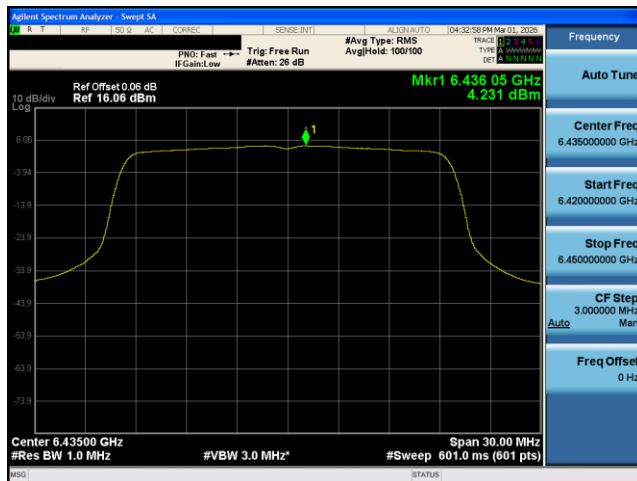


Plot 7-87 PSD CDD Antenna 0 (80MHz BW 802.11ax(SU) - Ch.7)

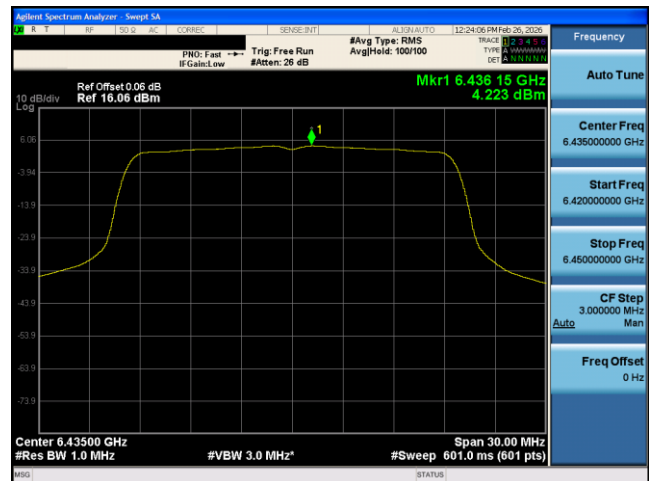


Plot 7-90 PSD CDD Antenna 1 (80MHz BW 802.11ax(SU) - Ch.7)

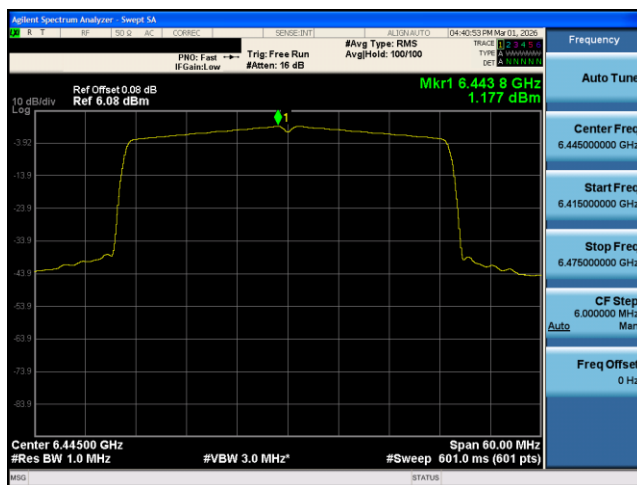
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 69 of 169



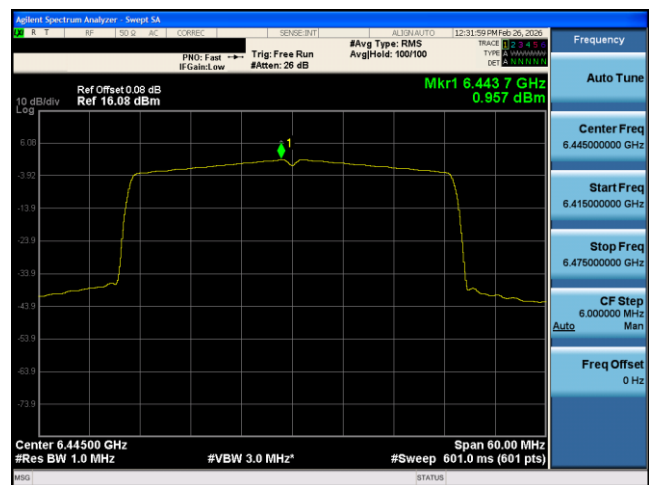
Plot 7-91 PSD CDD Antenna 0 (20MHz BW 802.11ax(SU) - Ch.97)



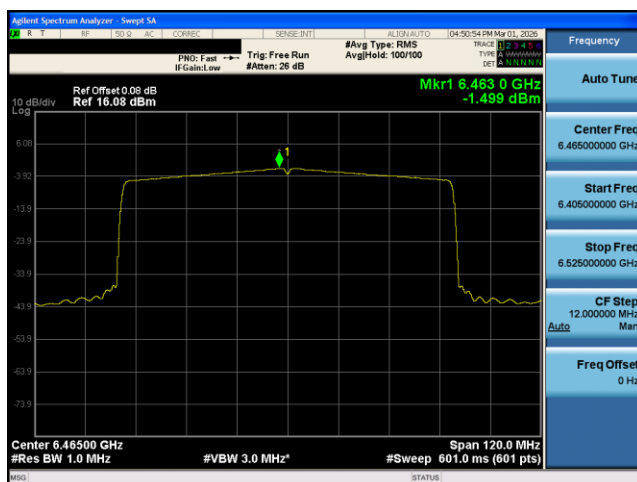
Plot 7-94 PSD CDD Antenna 1 (20MHz BW 802.11ax(SU) - Ch.97)



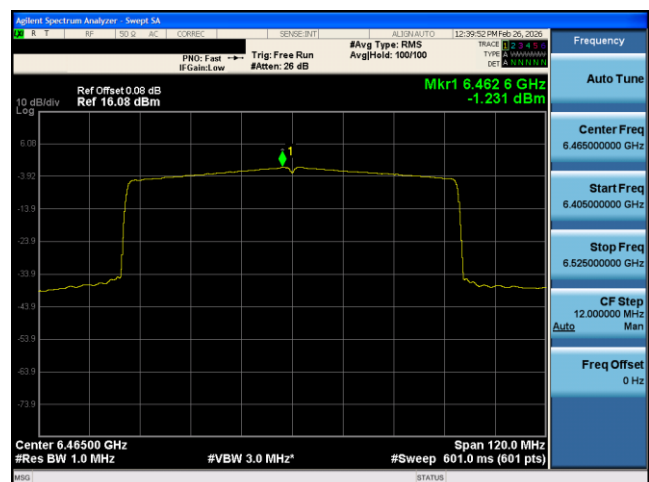
Plot 7-92 PSD CDD Antenna 0 (40MHz BW 802.11ax(SU) - Ch.99)



Plot 7-95 PSD CDD Antenna 1 (40MHz BW 802.11ax(SU) - Ch.99)



Plot 7-93 PSD CDD Antenna 0 (80MHz BW 802.11ax(SU) - Ch.103)

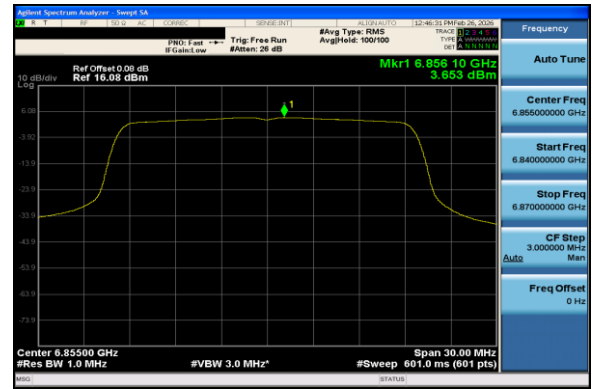


Plot 7-96 PSD CDD Antenna 1 (80MHz BW 802.11ax(SU) - Ch.103)

FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 70 of 169



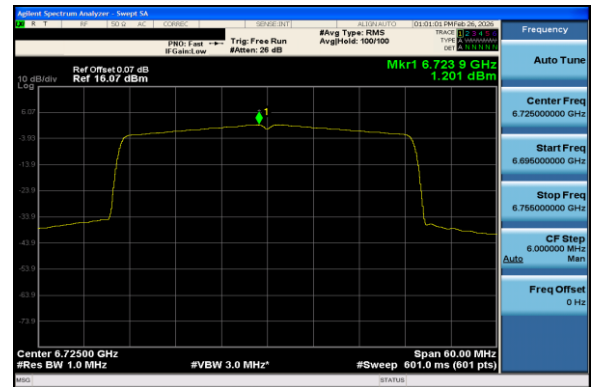
Plot 7-97 PSD CDD Antenna 0 (20MHz BW 802.11ax(SU) - Ch.181)



Plot 7-100 PSD CDD Antenna 1 (20MHz BW 802.11ax(SU) - Ch.181)



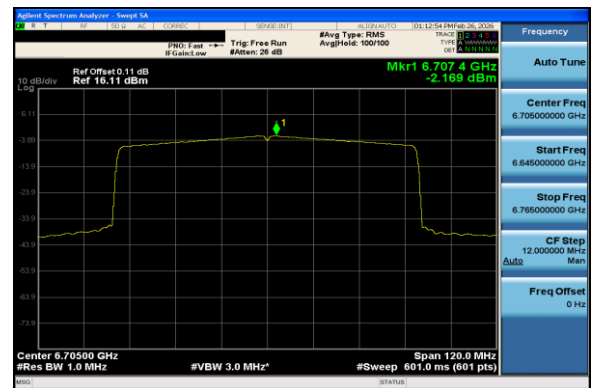
Plot 7-98 PSD CDD Antenna 0 (40MHz BW 802.11ax(SU) - Ch.155)



Plot 7-101 PSD CDD Antenna 1 (40MHz BW 802.11ax(SU) - Ch.155)



Plot 7-99 PSD CDD Antenna 0 (80MHz BW 802.11ax(SU) - Ch.151)



Plot 7-102 PSD CDD Antenna 1 (80MHz BW 802.11ax(SU) - Ch.151)

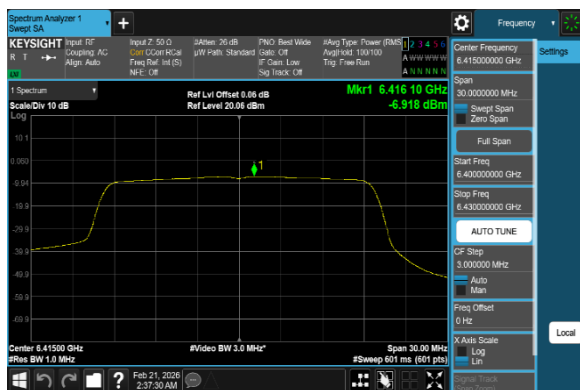
FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 71 of 169

7.4.6 SDM Power Spectral Density Measurements – LPI

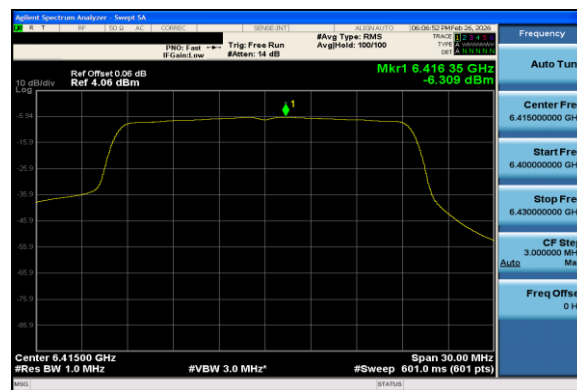
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate	Antenna 0 Measured Power Density [dBm/MHz]	Antenna 1 Measured Power Density [dBm/MHz]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	ax (20MHz)	SDM	MCS2	-9.51	-9.77	-6.63	3.27	-3.36	-1	-2.36
	6175	45	ax (20MHz)	SDM	MCS2	-7.47	-6.92	-4.18	0.45	-3.73	-1	-2.73
	6415	93	ax (20MHz)	SDM	MCS4	-6.92	-6.31	-3.59	-0.17	-3.76	-1	-2.76
	5965	3	ax (40MHz)	SDM	MCS2	-9.81	-10.08	-6.94	3.27	-3.67	-1	-2.67
	6165	43	ax (40MHz)	SDM	MCS4	-7.96	-7.16	-4.53	0.45	-4.08	-1	-3.08
Band 6	6405	91	ax (40MHz)	SDM	MCS2	-7.37	-6.74	-4.03	-0.17	-4.20	-1	-3.20
	5985	7	ax (80MHz)	SDM	MCS2	-10.42	-10.16	-7.28	3.27	-4.01	-1	-3.01
	6145	39	ax (80MHz)	SDM	MCS2	-7.89	-7.10	-4.47	0.45	-4.02	-1	-3.02
	6385	87	ax (80MHz)	SDM	MCS2	-7.00	-6.22	-3.58	-0.17	-3.75	-1	-2.75
	6435	97	ax (20MHz)	SDM	MCS4	-6.70	-6.52	-3.60	0.02	-3.57	-1	-2.57
Band 7	6475	105	ax (20MHz)	SDM	MCS4	-6.81	-7.03	-3.91	0.02	-3.89	-1	-2.89
	6515	113	ax (20MHz)	SDM	MCS4	-6.95	-7.14	-4.03	0.02	-4.01	-1	-3.01
	6445	99	ax (40MHz)	SDM	MCS2	-6.95	-6.88	-3.90	0.02	-3.88	-1	-2.88
	6485	107	ax (40MHz)	SDM	MCS4	-7.06	-6.71	-3.87	0.02	-3.85	-1	-2.85
	6525	115	ax (40MHz)	SDM	MCS4	-7.33	-7.91	-4.60	0.02	-4.57	-1	-3.57
Band 8	6465	103	ax (80MHz)	SDM	MCS2	-6.64	-7.10	-3.85	0.02	-3.83	-1	-2.83
	6535	117	ax (20MHz)	SDM	MCS2	-7.66	-7.62	-4.63	0.53	-4.10	-1	-3.10
	6695	149	ax (20MHz)	SDM	MCS2	-7.58	-7.47	-4.52	0.53	-3.99	-1	-2.99
	6875	185	ax (20MHz)	SDM	MCS4	-7.23	-7.53	-4.36	0.53	-3.83	-1	-2.83
	6565	123	ax (40MHz)	SDM	MCS2	-7.63	-7.93	-4.77	0.53	-4.24	-1	-3.24
Band 8	6725	155	ax (40MHz)	SDM	MCS4	-7.88	-6.69	-4.23	0.53	-3.70	-1	-2.70
	6845	179	ax (40MHz)	SDM	MCS2	-7.69	-7.65	-4.66	0.53	-4.13	-1	-3.13
	6545	119	ax (80MHz)	SDM	MCS2	-7.45	-7.87	-4.64	0.53	-4.11	-1	-3.11
	6705	151	ax (80MHz)	SDM	MCS2	-7.72	-7.39	-4.54	0.53	-4.01	-1	-3.01
	6865	183	ax (80MHz)	SDM	MCS2	-7.60	-7.71	-4.65	0.53	-4.12	-1	-3.12
Band 8	6895	189	ax (20MHz)	SDM	MCS2	-6.43	-6.50	-3.46	-0.23	-3.68	-1	-2.68
	6995	209	ax (20MHz)	SDM	MCS4	-6.40	-5.98	-3.18	-0.23	-3.41	-1	-2.41
	7115	233	ax (20MHz)	SDM	MCS2	-6.85	-6.64	-3.73	-0.23	-3.96	-1	-2.96
	6885	187	ax (40MHz)	SDM	MCS2	-7.73	-7.55	-4.63	-0.23	-4.86	-1	-3.86
	7005	211	ax (40MHz)	SDM	MCS4	-6.77	-6.39	-3.56	-0.23	-3.79	-1	-2.79
Band 8	7085	227	ax (40MHz)	SDM	MCS2	-6.53	-6.19	-3.34	-0.23	-3.57	-1	-2.57
	6945	199	ax (80MHz)	SDM	MCS2	-6.09	-6.55	-3.31	-0.23	-3.53	-1	-2.53
	7025	215	ax (80MHz)	SDM	MCS2	-6.48	-6.69	-3.57	-0.23	-3.80	-1	-2.80

Table 7-33. Power Spectral Density Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 72 of 169



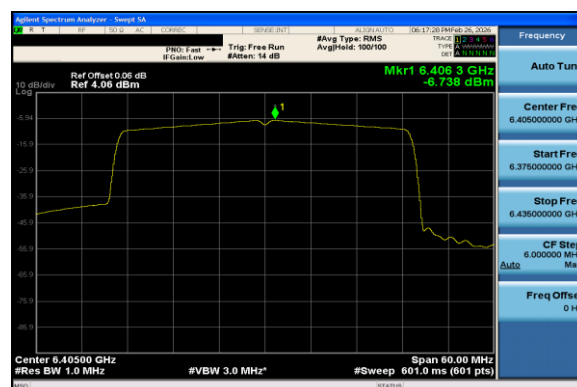
Plot 7-103 PSD SDM Antenna 0 (20MHz BW 802.11ax(SU) - Ch.93)



Plot 7-104 PSD SDM Antenna 1 (20MHz BW 802.11ax(SU) - Ch.93)



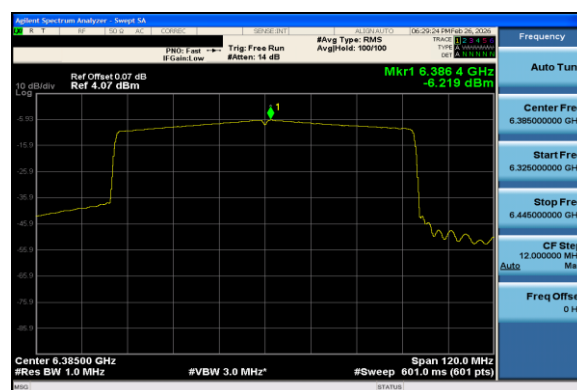
Plot 7-105 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.91)



Plot 7-106 PSD SDM Antenna 1 (40MHz BW 802.11ax(SU) - Ch.91)



Plot 7-107 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.87)

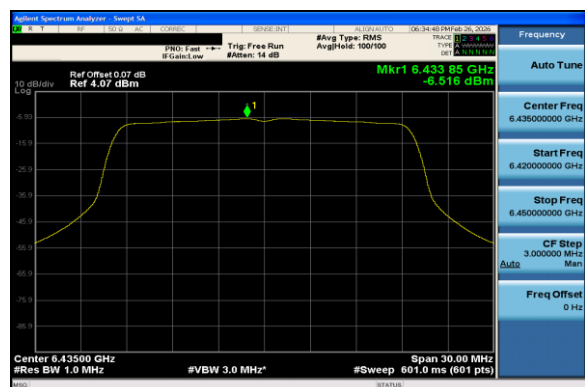


Plot 7-108 PSD SDM Antenna 1 (80MHz BW 802.11ax(SU) - Ch.87)

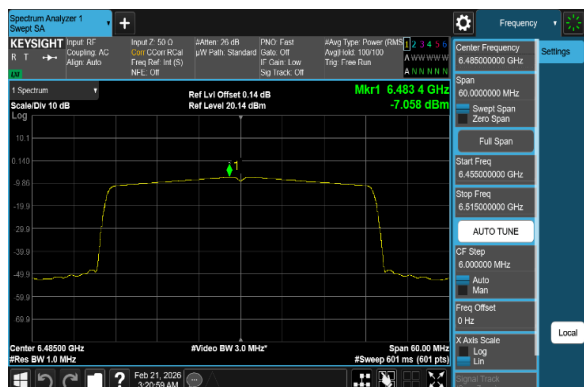
FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 73 of 169



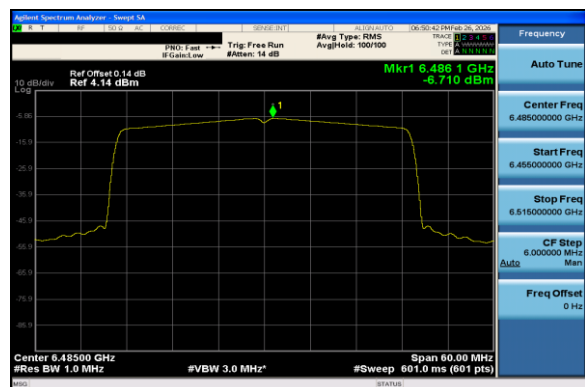
Plot 7-109 PSD SDM Antenna 0 (20MHz BW 802.11ax SU - Ch.97)



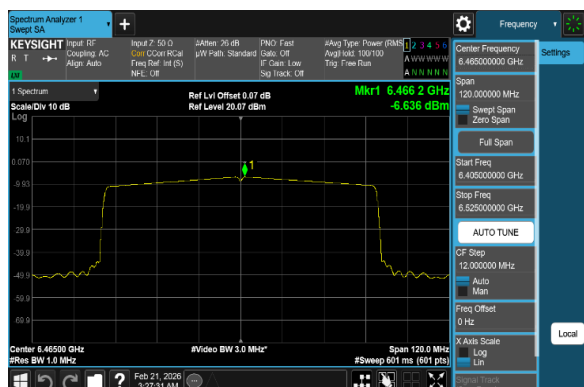
Plot 7-112 PSD SDM Antenna 0 (20MHz BW 802.11ax SU - Ch.97)



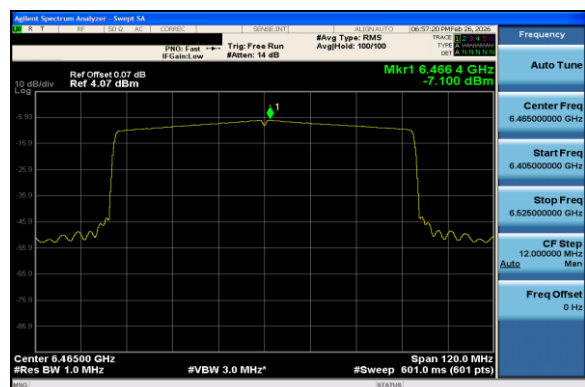
Plot 7-110 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.107)



Plot 7-113 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.107)



Plot 7-111 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.103)

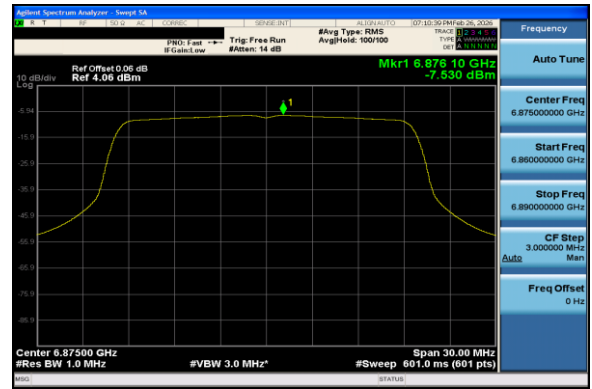


Plot 7-114 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.103)

FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 74 of 169



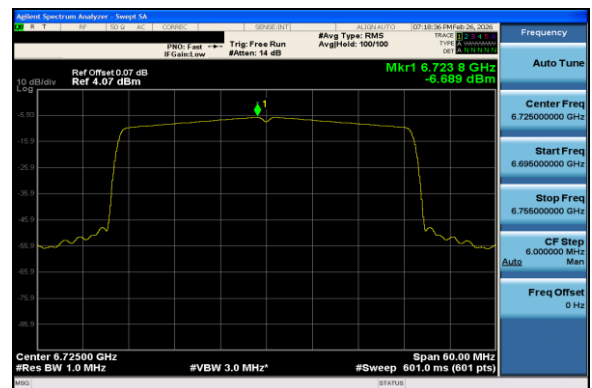
Plot 7-115 PSD SDM Antenna 0 (20MHz BW 802.11ax(SU) - Ch.185)



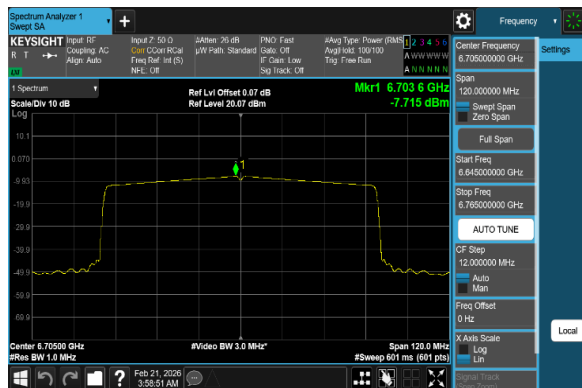
Plot 7-118 PSD SDM Antenna 0 (20MHz BW 802.11ax(SU) - Ch.185)



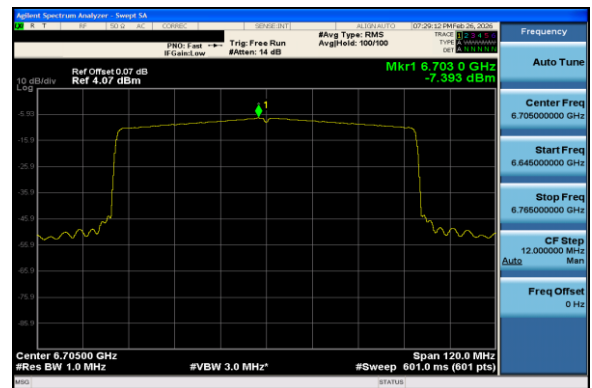
Plot 7-116 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.155)



Plot 7-119 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.155)



Plot 7-117 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.151)

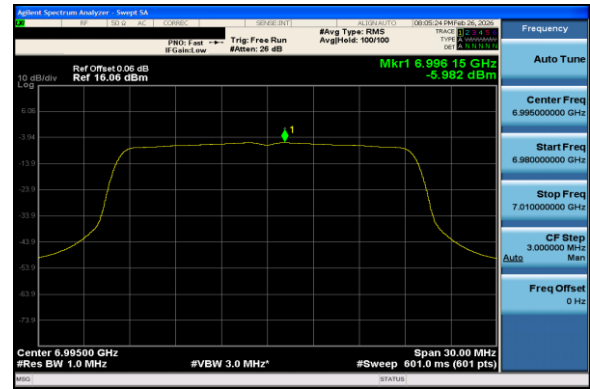


Plot 7-120 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.151)

FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 75 of 169



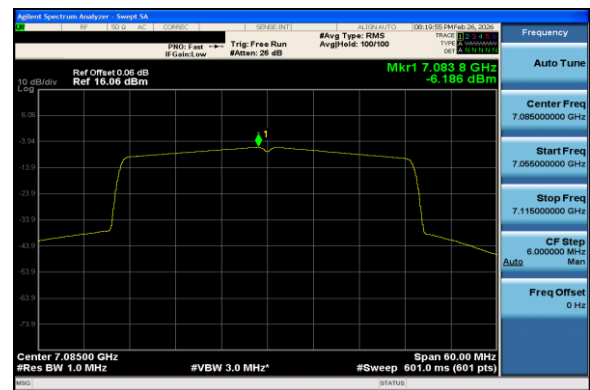
Plot 7-121 PSD SDM Antenna 0 (20MHz BW 802.11ax SU - Ch.209)



Plot 7-124 PSD SDM Antenna 0 (20MHz BW 802.11ax SU - Ch.209)



Plot 7-122 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.227)



Plot 7-125 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.227)



Plot 7-123 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.199)



Plot 7-126 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.199)

FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 76 of 169

Note:

Per ANSI C63.10-2020 Section 14.5.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 0 and Antenna 1 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

For correlated signals, assuming the antenna gain is 2.90 dBi for Antenna 0 and 3.61 dBi for Antenna 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{2.90/20} + 10^{3.61/20} / 2] \text{ dBi} \\ &= 6.27 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 2.90 dBi for Antenna 0 and 3.61 dBi for Antenna 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{2.90/10} + 10^{3.61/10} / 2] \text{ dBi} \\ &= 3.27 \text{ dBi}\end{aligned}$$

Sample SDM Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average power spectral density was measured to be -9.51 dBm for Antenna 0 and -9.77 dBm for Antenna 1.

$$\text{Antenna 0} + \text{Antenna 1} = \text{SDM/SDM}$$

$$(-9.51 \text{ dBm} + -9.77 \text{ dBm}) = (0.112 \text{ mW} + 0.105 \text{ mW}) = 0.217 \text{ mW} = -6.63 \text{ dBm}$$

Sample e.i.r.p Power Spectral Density Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average SDM power density was calculated to be -6.63 dBm with directional gain of 3.27 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$-6.63 \text{ dBm} + 3.27 \text{ dBi} = -3.36 \text{ dBm}$$

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 77 of 169

7.5 In-Band Emissions

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.2.2
KDB 987594 D02 v03 – Section J

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.6.2 of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024.
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 78 of 169

Test Setup

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

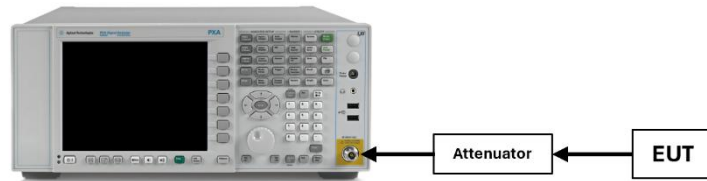


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.

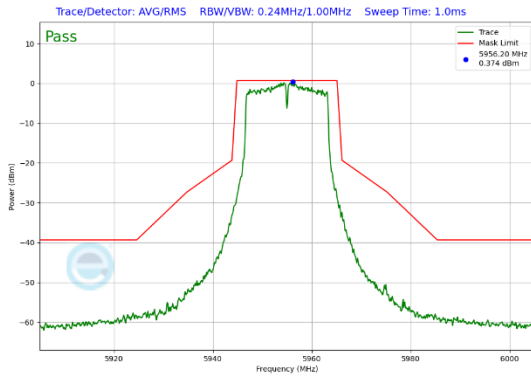
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 79 of 169

7.5.1 Antenna 0 In-Band Emission Measurements – SP

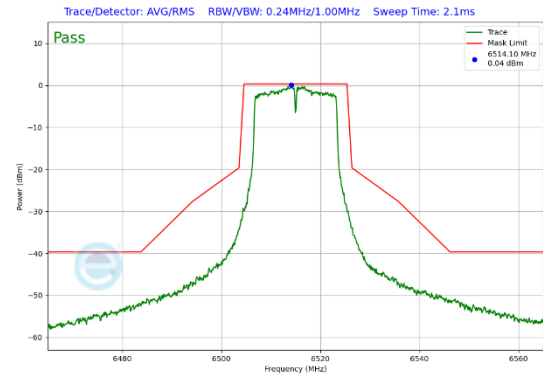
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna 0 In-Band Emission
Band 5	5955	1	a	54Mbps	Pass
	6175	45	a	24Mbps	Pass
	6415	93	a	54Mbps	Pass
	5955	1	ax (20MHz)	MCS2	Pass
	6175	45	ax (20MHz)	MCS2	Pass
	6415	93	ax (20MHz)	MCS4	Pass
	5965	3	ax (40MHz)	MCS2	Pass
	6165	43	ax (40MHz)	MCS4	Pass
	6405	91	ax (40MHz)	MCS4	Pass
	5985	7	ax (80MHz)	MCS2	Pass
	6145	39	ax (80MHz)	MCS4	Pass
	6385	87	ax (80MHz)	MCS2	Pass
Band 6	6435	97	a	24Mbps	Pass
	6475	105	a	54Mbps	Pass
	6515	113	a	12Mbps	Pass
	6435	97	ax (20MHz)	MCS4	Pass
	6475	105	ax (20MHz)	MCS2	Pass
	6515	113	ax (20MHz)	MCS4	Pass
	6445	99	ax (40MHz)	MCS4	Pass
	6485	107	ax (40MHz)	MCS4	Pass
	6525	115	ax (40MHz)	MCS4	Pass
	6465	103	ax (80MHz)	MCS2	Pass
Band 7	6535	117	a	24Mbps	Pass
	6695	149	a	54Mbps	Pass
	6855	181	a	12Mbps	Pass
	6535	117	ax (20MHz)	MCS4	Pass
	6695	149	ax (20MHz)	MCS2	Pass
	6855	181	ax (20MHz)	MCS2	Pass
	6565	123	ax (40MHz)	MCS4	Pass
	6725	155	ax (40MHz)	MCS4	Pass
	6845	179	ax (40MHz)	MCS4	Pass
	6625	135	ax (80MHz)	MCS2	Pass
	6705	151	ax (80MHz)	MCS2	Pass
	6785	167	ax (80MHz)	MCS2	Pass

Table 7-34. In-Band Emission Measurements Antenna 0

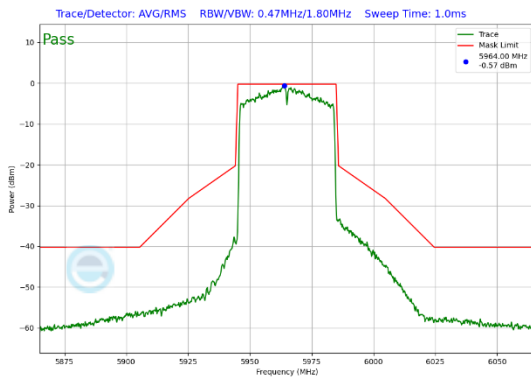
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 80 of 169



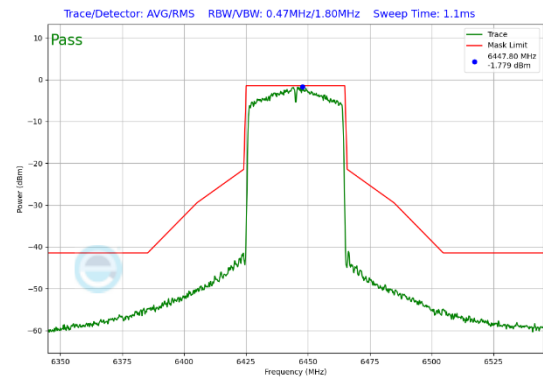
Plot 7-127 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 5) - Ch.1)



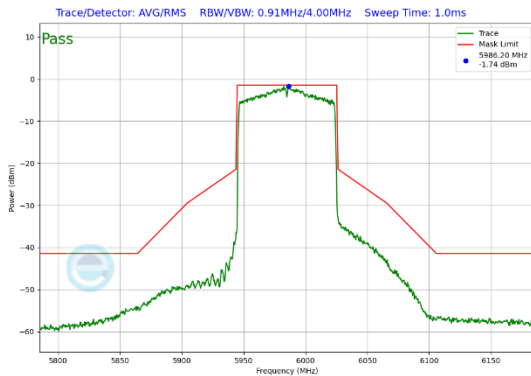
Plot 7-130 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 6) - Ch.113)



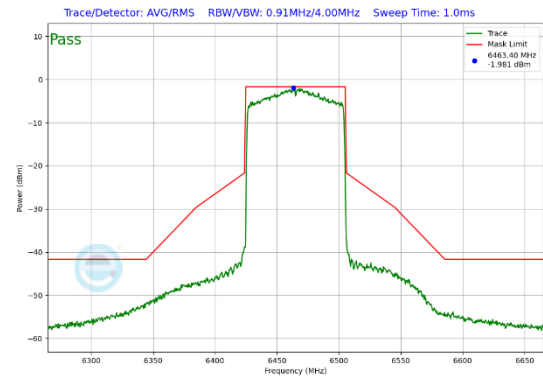
Plot 7-128 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 5) - Ch.3)



Plot 7-131 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 6) - Ch.99)

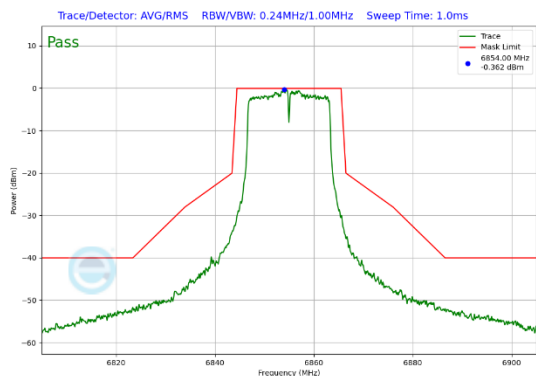


Plot 7-129 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 5) - Ch.7)

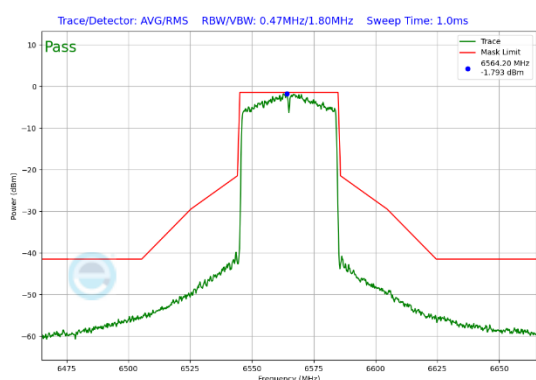


Plot 7-132 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 6) - Ch.103)

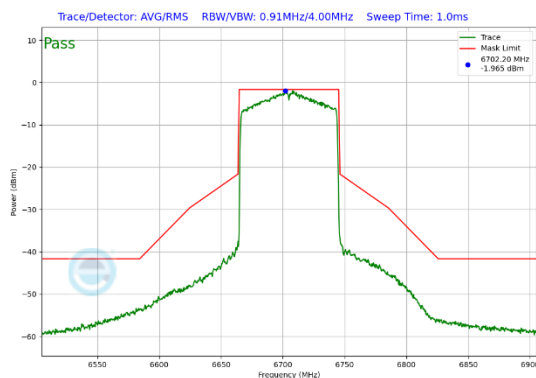
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 81 of 169



Plot 7-133 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 7) - Ch.181)



Plot 7-134 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 7) - Ch.123)



Plot 7-135 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.151)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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.		

7.5.2 Antenna 0 In-Band Emission Measurements – LPI

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna 0 In-Band Emission
Band 5	5955	1	a	12Mbps	Pass
	6175	45	a	36Mbps	Pass
	6415	93	a	36Mbps	Pass
	5955	1	ax (20MHz)	MCS2	Pass
	6175	45	ax (20MHz)	MCS4	Pass
	6415	93	ax (20MHz)	MCS4	Pass
	5965	3	ax (40MHz)	MCS2	Pass
	6165	43	ax (40MHz)	MCS2	Pass
	6405	91	ax (40MHz)	MCS2	Pass
	5985	7	ax (80MHz)	MCS2	Pass
	6145	39	ax (80MHz)	MCS2	Pass
	6385	87	ax (80MHz)	MCS4	Pass
Band 6	6435	97	a	6Mbps	Pass
	6475	105	a	6Mbps	Pass
	6515	113	a	12Mbps	Pass
	6435	97	ax (20MHz)	MCS4	Pass
	6475	105	ax (20MHz)	MCS4	Pass
	6515	113	ax (20MHz)	MCS4	Pass
	6445	99	ax (40MHz)	MCS2	Pass
	6485	107	ax (40MHz)	MCS2	Pass
	6525	115	ax (40MHz)	MCS2	Pass
	6465	103	ax (80MHz)	MCS2	Pass
Band 7	6535	117	a	12Mbps	Pass
	6695	149	a	36Mbps	Pass
	6875	185	a	6Mbps	Pass
	6535	117	ax (20MHz)	MCS4	Pass
	6695	149	ax (20MHz)	MCS4	Pass
	6875	185	ax (20MHz)	MCS4	Pass
	6565	123	ax (40MHz)	MCS2	Pass
	6725	155	ax (40MHz)	MCS2	Pass
	6845	179	ax (40MHz)	MCS2	Pass
	6545	119	ax (80MHz)	MCS2	Pass
	6705	151	ax (80MHz)	MCS2	Pass
	6865	183	ax (80MHz)	MCS4	Pass
Band 8	6895	189	a	12Mbps	Pass
	6995	209	a	12Mbps	Pass
	7115	233	a	6Mbps	Pass
	6895	189	ax (20MHz)	MCS4	Pass
	6995	209	ax (20MHz)	MCS4	Pass
	7115	233	ax (20MHz)	MCS4	Pass
	6885	187	ax (40MHz)	MCS2	Pass
	7005	211	ax (40MHz)	MCS4	Pass
	7085	227	ax (40MHz)	MCS4	Pass
	6945	199	ax (80MHz)	MCS2	Pass
	7025	215	ax (80MHz)	MCS2	Pass

Table 7-35. In-Band Emission Measurements Antenna 0

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 03/12/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-10-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 83 of 169