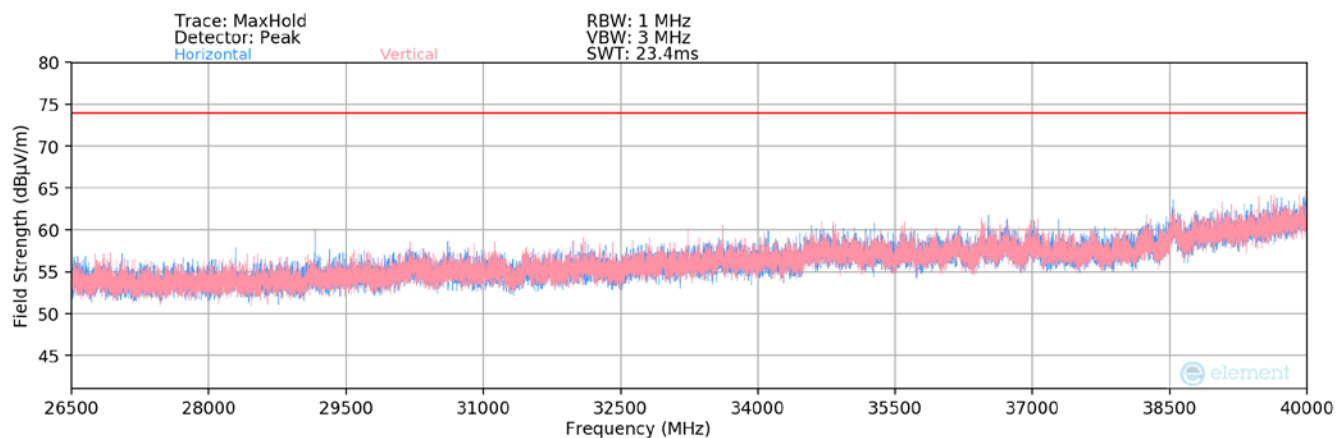


Plot 7-381. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) – Closed



Plot 7-382. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) – Half Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 238 of 305

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SISO Antenna-1 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36

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]
10360.00	Peak	V	278	38	-63.83	11.85	0.00	55.02	68.20	-13.18
* 15540.00	Average	V	-	-	-80.42	16.63	0.00	43.21	53.98	-10.77
* 15540.00	Peak	V	-	-	-68.16	16.63	0.00	55.47	73.98	-18.51
* 20720.00	Average	V	-	-	-67.51	3.16	-9.54	33.11	53.98	-20.87
* 20720.00	Peak	V	-	-	-59.01	3.16	-9.54	41.61	73.98	-32.37
25900.00	Peak	V	-	-	-56.26	4.77	-9.54	45.97	68.20	-22.23

Table 7-33. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5200MHz
Channel:	40

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]
10400.00	Peak	V	310	72	-63.94	11.49	0.00	54.55	68.20	-13.65
* 15600.00	Average	V	-	-	-80.21	16.85	0.00	43.64	53.98	-10.34
* 15600.00	Peak	V	-	-	-68.55	16.85	0.00	55.30	73.98	-18.68
* 20800.00	Average	V	-	-	-66.32	3.48	-9.54	34.62	53.98	-19.36
* 20800.00	Peak	V	-	-	-58.27	3.48	-9.54	42.67	73.98	-31.31
26000.00	Peak	V	-	-	-56.67	5.16	-9.54	45.95	68.20	-22.25

Table 7-34. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 239 of 305

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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

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]
10480.00	Peak	V	265	332	-68.02	12.01	0.00	50.99	68.20	-17.21
* 15720.00	Average	V	-	-	-80.36	17.21	0.00	43.85	53.98	-10.13
* 15720.00	Peak	V	-	-	-69.04	17.21	0.00	55.17	73.98	-18.81
* 20960.00	Average	V	-	-	-67.26	3.47	-9.54	33.68	53.98	-20.30
* 20960.00	Peak	V	-	-	-58.88	3.47	-9.54	42.06	73.98	-31.92
26200.00	Peak	V	-	-	-55.58	4.78	-9.54	46.66	68.20	-21.54

Table 7-35. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	V	345	303	-64.02	12.54	0.00	55.52	68.20	-12.68
* 15780.00	Average	V	-	-	-80.48	17.03	0.00	43.55	53.98	-10.43
* 15780.00	Peak	V	-	-	-68.53	17.03	0.00	55.50	73.98	-18.48
* 21040.00	Average	V	-	-	-66.57	3.53	-9.54	34.42	53.98	-19.56
* 21040.00	Peak	V	-	-	-56.95	3.53	-9.54	44.04	73.98	-29.94
26300.00	Peak	V	-	-	-55.79	4.64	-9.54	46.30	68.20	-21.90

Table 7-36. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1-A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 240 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

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]
10560.00	Peak	V	352	305	-64.32	12.39	0.00	55.07	68.20	-13.13
* 15840.00	Average	V	-	-	-80.46	16.71	0.00	43.25	53.98	-10.73
* 15840.00	Peak	V	-	-	-68.59	16.71	0.00	55.12	73.98	-18.86
* 21120.00	Average	V	-	-	-67.14	3.68	-9.54	34.00	53.98	-19.98
* 21120.00	Peak	V	-	-	-55.95	3.68	-9.54	45.19	73.98	-28.79
26400.00	Peak	V	-	-	-57.88	4.78	-9.54	44.36	68.20	-23.84

Table 7-37. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

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]
* 10640.00	Average	V	286	219	-76.56	12.36	0.00	42.80	53.98	-11.18
* 10640.00	Peak	V	344	307	-64.60	12.36	0.00	54.76	73.98	-19.22
* 15960.00	Average	V	-	-	-80.84	18.25	0.00	44.41	53.98	-9.57
* 15960.00	Peak	V	-	-	-68.56	18.25	0.00	56.69	73.98	-17.29
* 21280.00	Average	V	-	-	-66.83	3.72	-9.54	34.35	53.98	-19.63
* 21280.00	Peak	V	-	-	-58.21	3.72	-9.54	42.97	73.98	-31.01
26600.00	Peak	V	-	-	-56.48	4.72	-9.54	45.69	68.20	-22.51

Table 7-38. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 241 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

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]
* 11000.00	Average	V	285	313	-76.54	12.61	0.00	43.07	53.98	-10.91
* 11000.00	Peak	V	285	313	-63.97	12.61	0.00	55.64	73.98	-18.34
16500.00	Peak	V	-	-	-68.37	18.00	0.00	56.63	68.20	-11.57
22000.00	Peak	V	-	-	-56.76	3.83	-9.54	44.53	68.20	-23.67
27500.00	Peak	V	-	-	-57.19	4.97	-9.54	45.24	68.20	-22.96

Table 7-39. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

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]
* 11000.00	Average	V	285	313	-76.54	12.61	0.00	43.07	53.98	-10.91
* 11000.00	Peak	V	285	313	-63.97	12.61	0.00	55.64	73.98	-18.34
16500.00	Peak	V	-	-	-68.37	18.00	0.00	56.63	68.20	-11.57
22000.00	Peak	V	-	-	-56.76	3.83	-9.54	44.53	68.20	-23.67
27500.00	Peak	V	-	-	-57.19	4.97	-9.54	45.24	68.20	-22.96

Table 7-40. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 242 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

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]
* 11440.00	Average	V	292	91	-77.27	12.91	0.00	42.64	53.98	-11.33
* 11440.00	Peak	V	292	91	-64.35	12.91	0.00	55.56	73.98	-18.41
17160.00	Peak	V	-	-	-68.00	17.87	0.00	56.87	68.20	-11.33
* 22880.00	Average	V	-	-	-67.19	3.79	-9.54	34.07	53.98	-19.91
* 22880.00	Peak	V	-	-	-57.41	3.79	-9.54	43.84	73.98	-30.14
28600.00	Peak	V	-	-	-56.66	5.28	-9.54	46.07	68.20	-22.13

Table 7-41. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
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]
* 11490.00	Average	V	272	241	-77.04	13.32	0.00	43.28	53.98	-10.69
* 11490.00	Peak	V	272	241	-64.72	13.32	0.00	55.60	73.98	-18.37
17235.00	Peak	V	-	-	-68.58	17.85	0.00	56.27	68.20	-11.93
* 22980.00	Average	V	-	-	-67.49	3.79	-9.54	33.76	53.98	-20.22
* 22980.00	Peak	V	-	-	-57.55	3.79	-9.54	43.70	73.98	-30.28
28725.00	Peak	V	-	-	-59.23	5.41	-9.54	43.64	68.20	-24.56

Table 7-42. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1-A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 243 of 305

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	V	287	178	-77.82	12.93	0.00	42.11	53.98	-11.87
* 11570.00	Peak	V	287	178	-64.37	12.93	0.00	55.56	73.98	-18.42
17355.00	Peak	V	-	-	-68.37	18.36	0.00	56.99	68.20	-11.21
23140.00	Peak	V	-	-	-56.53	3.75	-9.54	44.68	68.20	-23.52
28925.00	Peak	V	-	-	-58.39	5.46	-9.54	44.53	68.20	-23.67

Table 7-43. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	V	396	90	-78.60	13.82	0.00	42.22	53.98	-11.76
* 11650.00	Peak	V	396	90	-66.27	13.82	0.00	54.55	73.98	-19.43
17475.00	Peak	V	-	-	-67.86	17.74	0.00	56.88	68.20	-11.32
23300.00	Peak	V	-	-	-57.31	3.76	-9.54	43.91	68.20	-24.29
29125.00	Peak	V	-	-	-56.54	5.54	-9.54	46.46	68.20	-21.74

Table 7-44. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 244 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5845MHz
Channel: 169

	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]
*	11690.00	Average	V	292	189	-80.19	13.95	0.00	40.76	53.98	-13.22
*	11690.00	Peak	V	292	189	-68.09	13.95	0.00	52.86	73.98	-21.12
	17535.00	Peak	V	-	-	-68.27	18.12	0.00	56.85	68.20	-11.35
	23380.00	Peak	V	-	-	-55.89	3.85	-9.54	45.42	68.20	-22.78
	29225.00	Peak	V	-	-	-59.44	5.60	-9.54	43.62	68.20	-24.58
	35070.00	Peak	V	-	-	-55.08	8.11	-9.54	50.49	68.20	-17.71

Table 7-45. Radiated Measurements SISO ANT1 – Closed

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5865MHz
Channel: 173

	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]
*	11730.00	Average	V	-	-	-80.70	14.16	0.00	40.46	53.98	-13.52
*	11730.00	Peak	V	-	-	-78.51	14.16	0.00	42.65	73.98	-31.33
	17595.00	Peak	V	-	-	-68.68	18.19	0.00	56.51	68.20	-11.69
	23460.00	Peak	V	-	-	-56.87	3.85	-9.54	44.45	68.20	-23.75
	29325.00	Peak	V	-	-	-55.72	5.85	-9.54	47.59	68.20	-20.61
	35190.00	Peak	V	-	-	-55.68	8.16	-9.54	49.94	68.20	-18.26

Table 7-46. Radiated Measurements SISO ANT1 – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 245 of 305

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

	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]
*	11770.00	Average	V	357	89	-79.02	14.19	0.00	42.17	53.98	-11.81
*	11770.00	Peak	V	357	89	-67.02	14.19	0.00	54.17	73.98	-19.81
	17655.00	Peak	V	-	-	-67.94	18.07	0.00	57.13	68.20	-11.07
	23540.00	Peak	V	-	-	-58.38	3.84	-9.54	42.92	68.20	-25.28
	29425.00	Peak	V	-	-	-56.00	5.87	-9.54	47.33	68.20	-20.87
	35310.00	Peak	V	-	-	-57.73	8.04	-9.54	47.77	68.20	-20.43

Table 7-47. Radiated Measurements SISO ANT1 – Closed

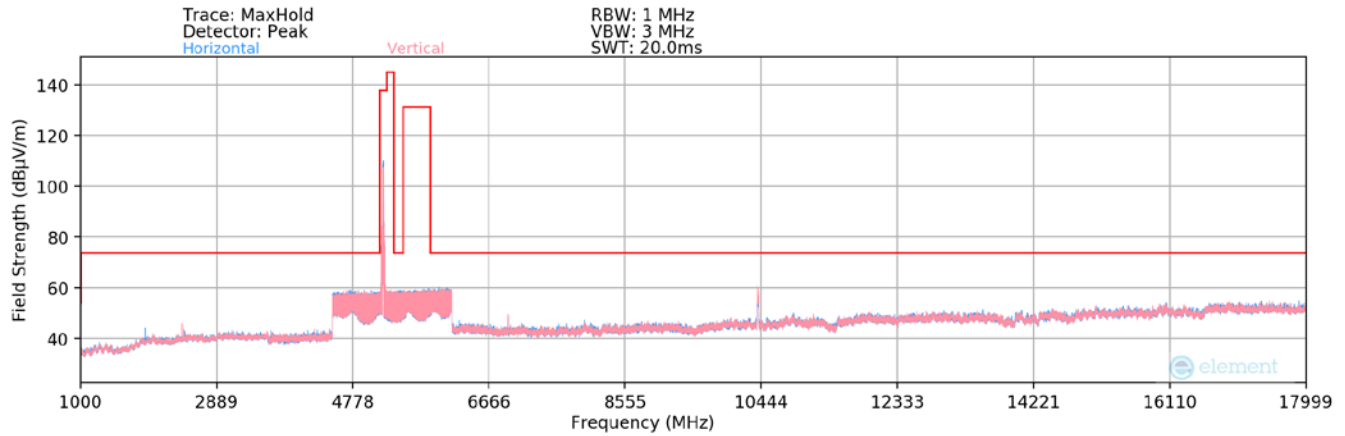
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

	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]
*	11200.00	Average	V	244	341	-77.23	12.49	0.00	42.26	53.98	-11.72
*	11200.00	Peak	V	244	341	-65.33	12.49	0.00	54.16	73.98	-19.82
	16800.00	Peak	V	-	-	-68.70	18.32	0.00	56.62	68.20	-11.58
*	22400.00	Average	V	-	-	-67.82	3.79	-9.54	33.43	53.98	-20.55
*	22400.00	Peak	V	-	-	-58.07	3.79	-9.54	43.18	73.98	-30.80
	28000.00	Peak	V	-	-	-58.42	4.94	-9.54	43.98	68.20	-24.22

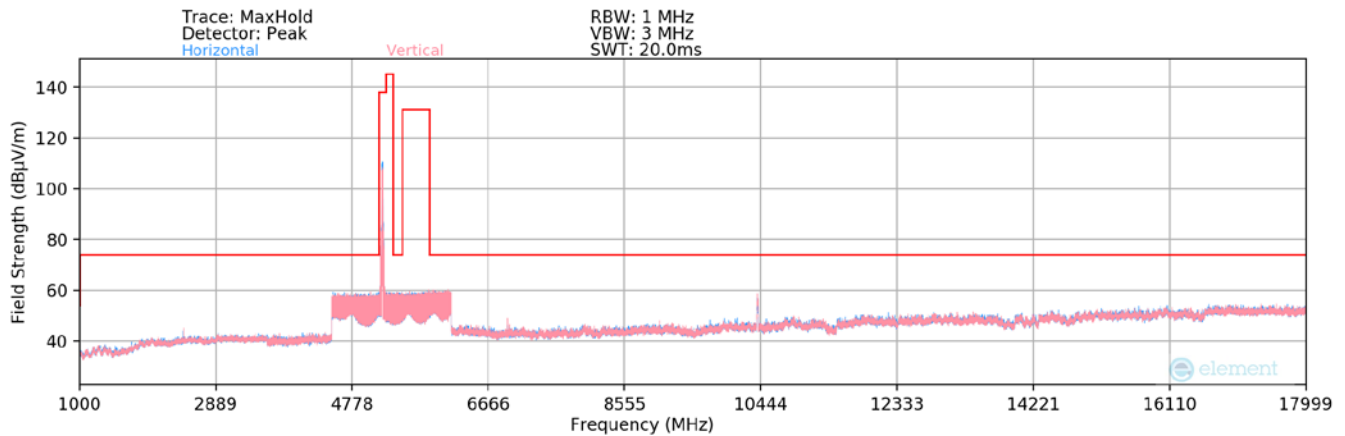
Table 7-48. Radiated Measurements SISO ANT1 with WCP

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 246 of 305

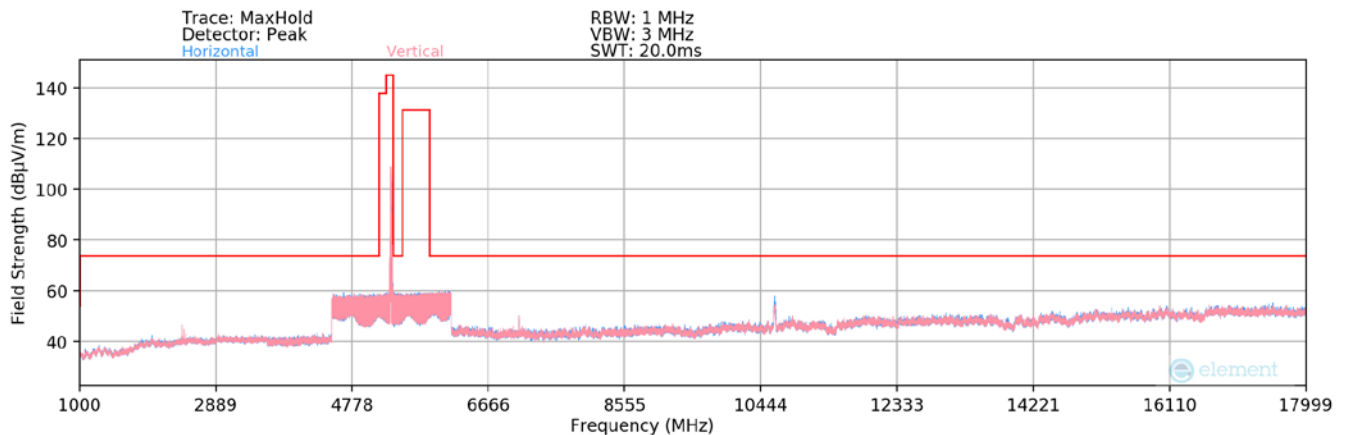
7.6.2 MIMO Radiated Spurious Emission Measurements



Plot 7-383. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 40) – Open



Plot 7-384. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 40) – Half Open

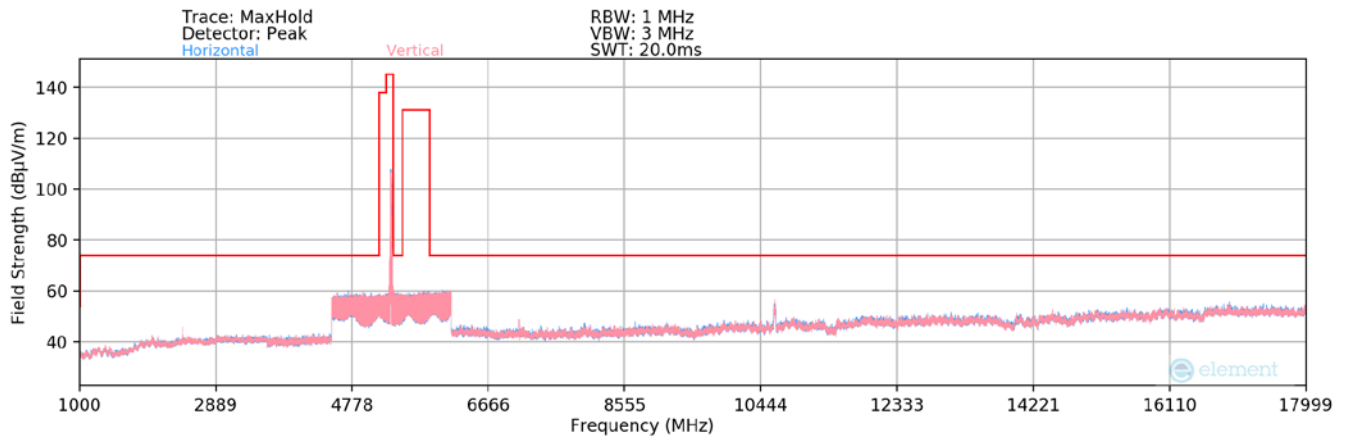


Plot 7-385. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 56) – Open

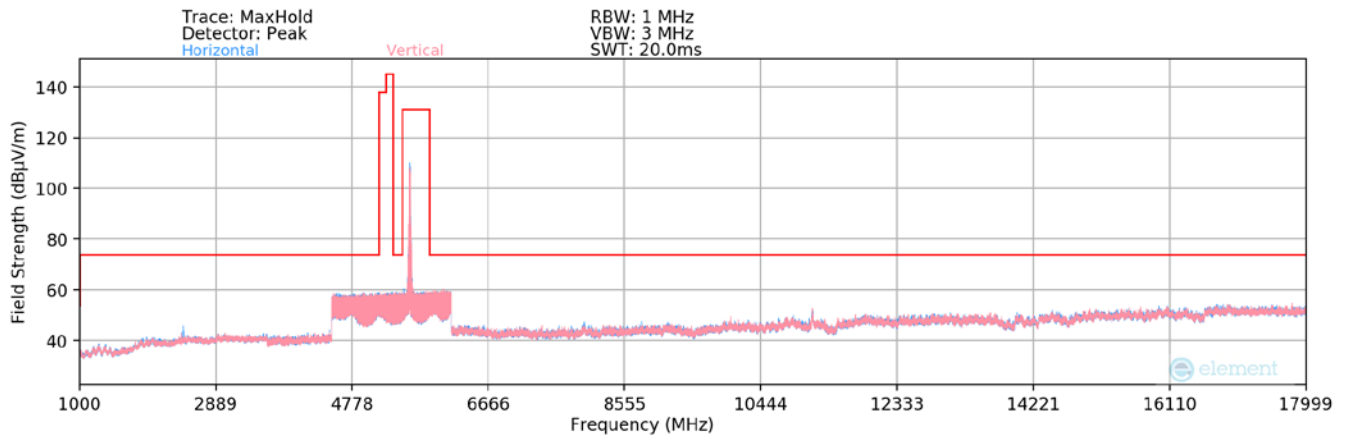
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 247 of 305

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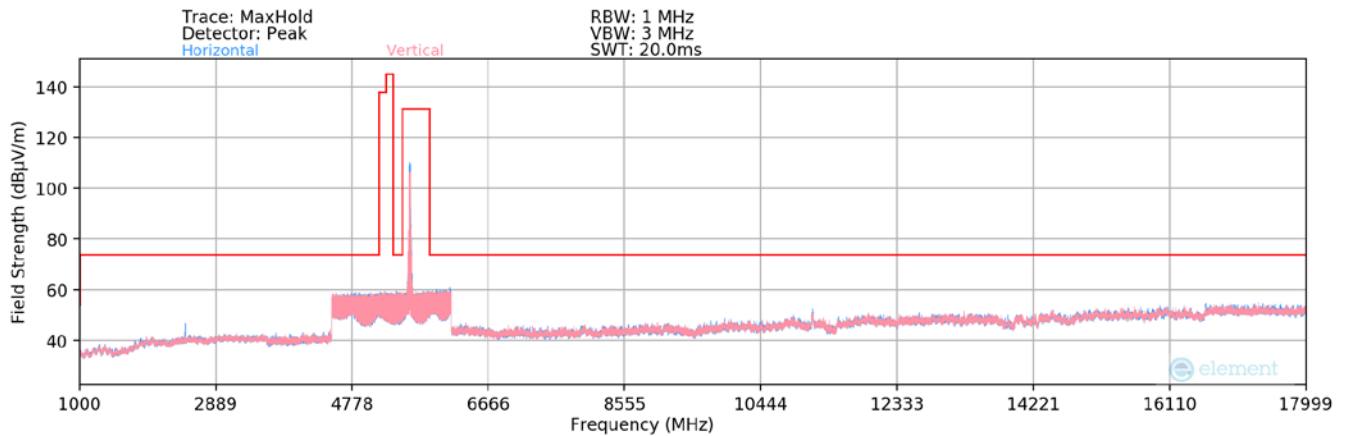
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Plot 7-386. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 56) – Half Open



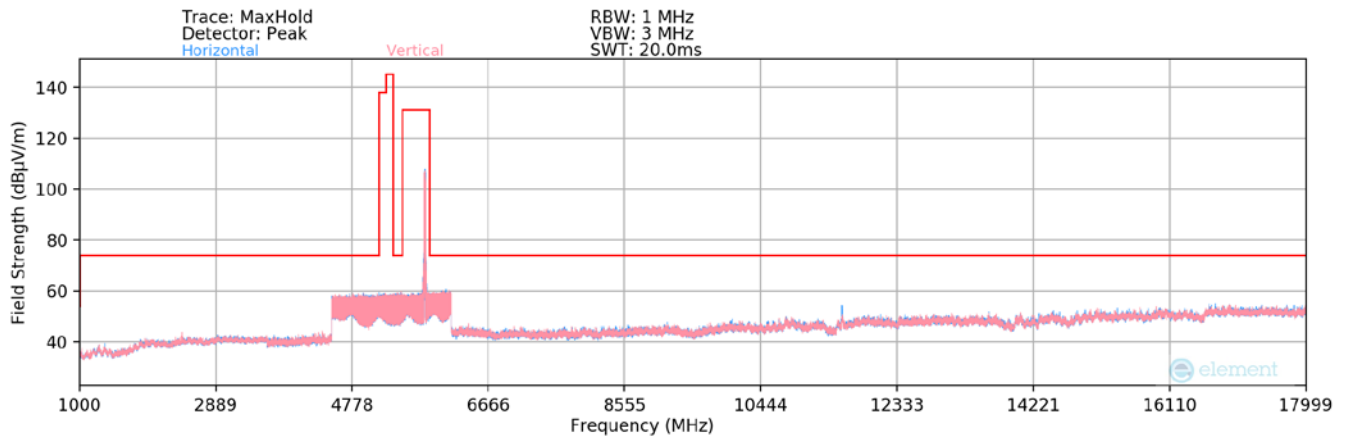
Plot 7-387. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 120) – Open



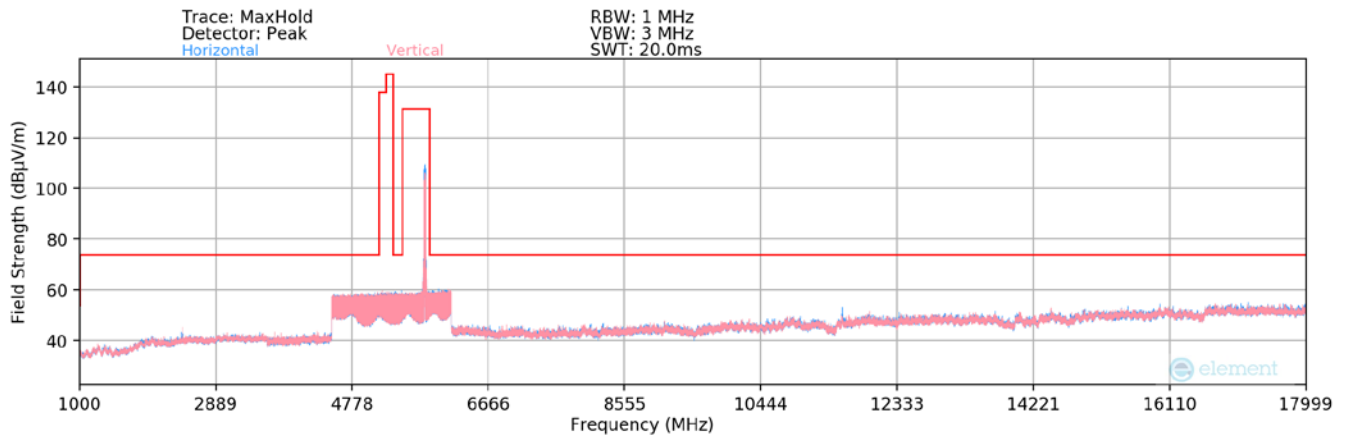
Plot 7-388. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 120) – Half Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 248 of 305

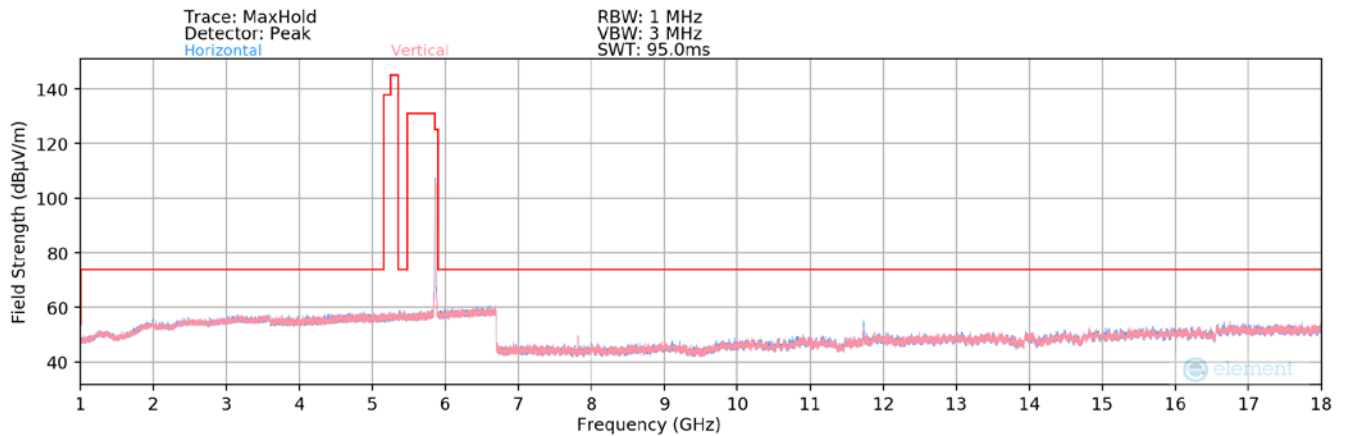
V9.0 02/01/2019



Plot 7-389. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 157) – Open



Plot 7-390. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 157) – Half Open

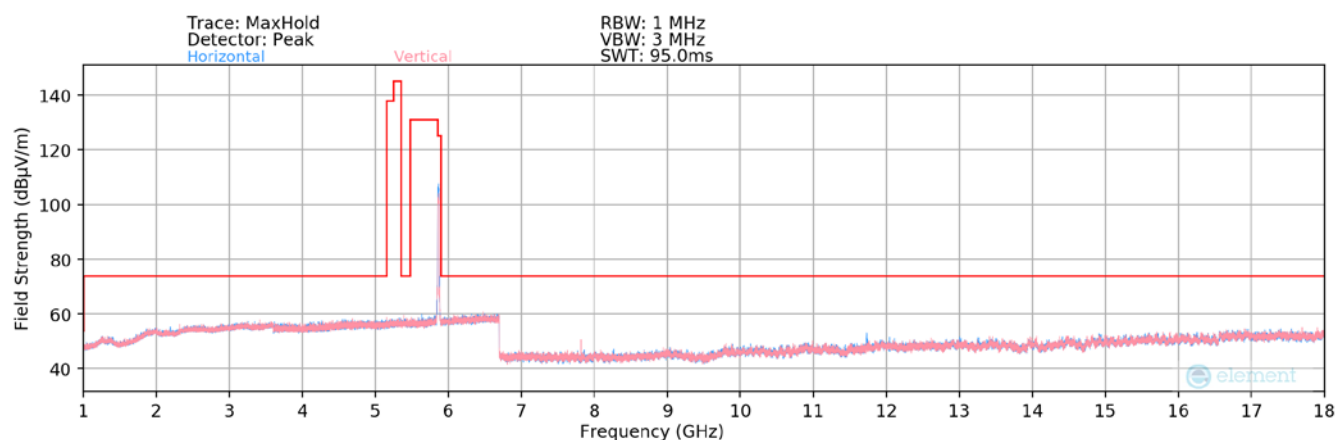


Plot 7-391. Radiated Spurious Plot above 1GHz MIMO (802.11a – U4 Ch. 173) – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 249 of 305

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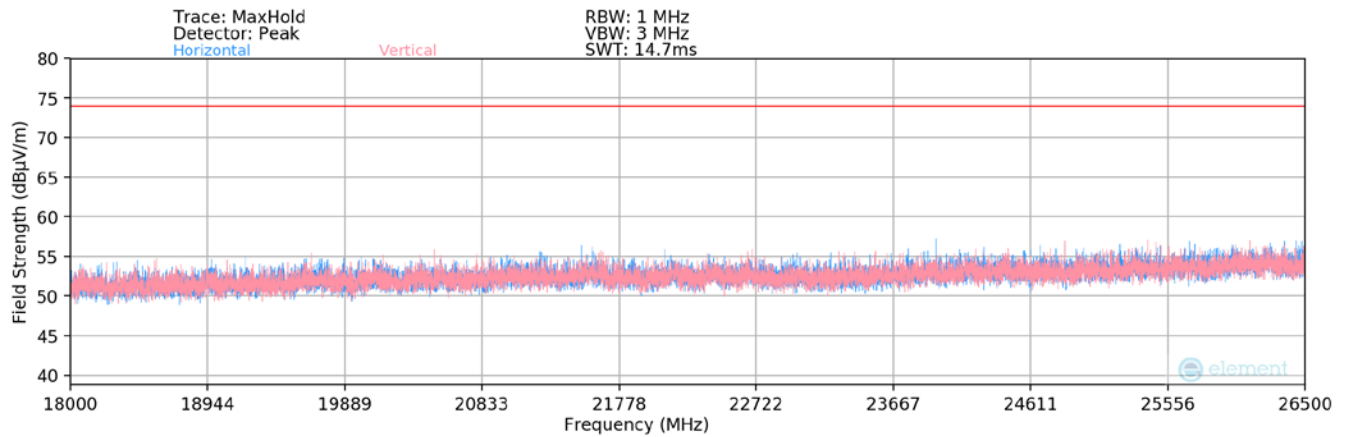
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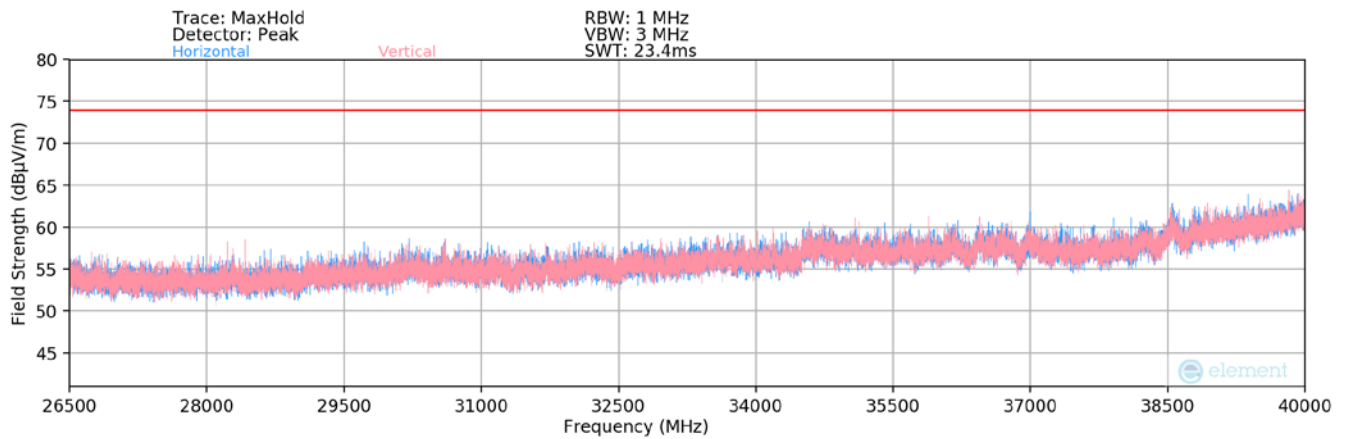
Plot 7-392. Radiated Spurious Plot above 1GHz MIMO (802.11a – U4 Ch. 173) – Half Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 250 of 305

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-393. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a) – Open



Plot 7-394. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a) – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 251 of 305

MIMO Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

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]
10360.00	Peak	H	148	133	-53.30	11.33	0.00	65.03	68.20	-3.17
* 15540.00	Average	H	-	-	-79.55	15.93	0.00	43.38	53.98	-10.60
* 15540.00	Peak	H	-	-	-67.51	15.93	0.00	55.42	73.98	-18.56
* 20720.00	Average	H	-	-	-67.32	3.15	-9.54	33.29	53.98	-20.69
* 20720.00	Peak	H	-	-	-57.80	3.15	-9.54	42.81	73.98	-31.17
25900.00	Peak	H	-	-	-58.30	4.77	-9.54	43.93	68.20	-24.27

Table 7-49. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

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]
10400.00	Peak	H	205	335	-53.35	11.51	0.00	65.16	68.20	-3.04
* 15600.00	Average	H	-	-	-79.61	16.74	0.00	44.13	53.98	-9.85
* 15600.00	Peak	H	-	-	-67.23	16.74	0.00	56.51	73.98	-17.47
* 20800.00	Average	H	-	-	-66.63	3.48	-9.54	34.31	53.98	-19.67
* 20800.00	Peak	H	-	-	-57.59	3.48	-9.54	43.35	73.98	-30.63
26000.00	Peak	H	-	-	-59.48	5.15	-9.54	43.13	68.20	-25.07

Table 7-50. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 252 of 305

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

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]
10480.00	Peak	H	152	330	-53.71	11.80	0.00	65.09	68.20	-3.11
* 15720.00	Average	H	-	-	-79.58	17.52	0.00	44.94	53.98	-9.03
* 15720.00	Peak	H	-	-	-67.40	17.52	0.00	57.12	73.98	-16.85
* 20960.00	Average	H	-	-	-67.29	3.48	-9.54	33.65	53.98	-20.33
* 20960.00	Peak	H	-	-	-59.31	3.48	-9.54	41.62	73.98	-32.36
26200.00	Peak	H	-	-	-58.34	4.78	-9.54	43.90	68.20	-24.30

Table 7-51. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

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]
10520.00	Peak	H	203	318	-54.01	12.03	0.00	65.02	68.20	-3.18
* 15780.00	Average	H	-	-	-80.41	17.59	0.00	44.18	53.98	-9.80
* 15780.00	Peak	H	-	-	-69.58	17.59	0.00	55.01	73.98	-18.97
* 21040.00	Average	H	-	-	-67.21	3.53	-9.54	33.78	53.98	-20.20
* 21040.00	Peak	H	-	-	-59.02	3.53	-9.54	41.97	73.98	-32.01
26300.00	Peak	H	-	-	-58.93	4.64	-9.54	43.16	68.20	-25.04

Table 7-52. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 253 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

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]
10560.00	Peak	H	207	317	-55.17	13.05	0.00	64.88	68.20	-3.32
* 15840.00	Average	H	-	-	-80.75	16.84	0.00	43.09	53.98	-10.89
* 15840.00	Peak	H	-	-	-68.99	16.84	0.00	54.85	73.98	-19.13
* 21120.00	Average	H	-	-	-65.60	3.68	-9.54	35.53	53.98	-18.44
* 21120.00	Peak	H	-	-	-59.36	3.68	-9.54	41.78	73.98	-32.20
26400.00	Peak	H	-	-	-59.23	4.78	-9.54	43.01	68.20	-25.19

Table 7-53. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

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]
* 10640.00	Average	H	139	69	-69.77	13.51	0.00	50.74	53.98	-3.24
* 10640.00	Peak	H	139	69	-57.43	13.51	0.00	63.08	73.98	-10.90
* 15960.00	Average	H	-	-	-80.08	16.97	0.00	43.89	53.98	-10.09
* 15960.00	Peak	H	-	-	-68.68	16.97	0.00	55.29	73.98	-18.69
* 21280.00	Average	H	-	-	-66.96	3.72	-9.54	34.21	53.98	-19.77
* 21280.00	Peak	H	-	-	-59.58	3.72	-9.54	41.59	73.98	-32.38
26600.00	Peak	H	-	-	-59.53	4.72	-9.54	42.64	68.20	-25.56

Table 7-54. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 254 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

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]
* 11000.00	Average	H	177	101	-74.83	12.81	0.00	44.98	53.98	-9.00
* 11000.00	Peak	H	177	101	-60.91	12.81	0.00	58.90	73.98	-15.08
16500.00	Peak	H	-	-	-68.33	17.74	0.00	56.41	68.20	-11.79
22000.00	Peak	H	-	-	-58.87	3.83	-9.54	42.43	68.20	-25.77
27500.00	Peak	H	-	-	-58.82	4.97	-9.54	43.61	68.20	-24.59

Table 7-55. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

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]
* 11200.00	Average	H	172	108	-73.76	12.63	0.00	45.87	53.98	-8.11
* 11200.00	Peak	H	172	108	-61.05	12.63	0.00	58.58	73.98	-15.40
16800.00	Peak	H	-	-	-68.83	18.01	0.00	56.18	68.20	-12.02
* 22400.00	Average	H	-	-	-67.50	3.79	-9.54	33.75	53.98	-20.23
* 22400.00	Peak	H	-	-	-57.86	3.79	-9.54	43.38	73.98	-30.59
28000.00	Peak	H	-	-	-58.86	4.94	-9.54	43.54	68.20	-24.66

Table 7-56. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 255 of 305

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	H	207	315	-73.55	12.91	0.00	46.36	53.98	-7.62
* 11440.00	Peak	H	207	315	-61.34	12.91	0.00	58.57	73.98	-15.41
17160.00	Peak	H	-	-	-68.43	17.57	0.00	56.14	68.20	-12.06
* 22880.00	Average	H	-	-	-67.25	3.79	-9.54	34.00	53.98	-19.98
* 22880.00	Peak	H	-	-	-59.24	3.79	-9.54	42.01	73.98	-31.97
28600.00	Peak	H	-	-	-59.42	5.27	-9.54	43.31	68.20	-24.89

Table 7-57. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	H	194	308	-71.96	10.71	0.00	45.75	53.98	-8.23
* 11490.00	Peak	H	194	308	-60.24	10.71	0.00	57.47	73.98	-16.51
17235.00	Peak	H	-	-	-68.76	13.90	0.00	52.14	68.20	-16.06
* 22980.00	Average	H	-	-	-67.77	3.79	-9.54	33.47	53.98	-20.51
* 22980.00	Peak	H	-	-	-59.48	3.79	-9.54	41.77	73.98	-32.21
28725.00	Peak	H	-	-	-58.53	5.41	-9.54	44.34	68.20	-23.86

Table 7-58. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 256 of 305

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

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]
* 11570.00	Average	H	126	317	-72.23	10.93	0.00	45.70	53.98	-8.28
* 11570.00	Peak	H	126	317	-60.80	10.93	0.00	57.13	73.98	-16.85
17355.00	Peak	H	-	-	-69.35	13.63	0.00	51.28	68.20	-16.92
23140.00	Peak	H	-	-	-59.24	3.75	-9.54	41.97	68.20	-26.23
28925.00	Peak	H	-	-	-58.34	5.46	-9.54	44.58	68.20	-23.62

Table 7-59. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

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]
* 11650.00	Average	H	136	312	-72.16	11.09	0.00	45.93	53.98	-8.05
* 11650.00	Peak	H	136	312	-60.52	11.09	0.00	57.57	73.98	-16.41
17475.00	Peak	H	-	-	-69.51	13.73	0.00	51.22	68.20	-16.98
23300.00	Peak	H	-	-	-58.59	3.76	-9.54	42.62	68.20	-25.58
29125.00	Peak	H	-	-	-57.18	5.54	-9.54	45.82	68.20	-22.38

Table 7-60. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 257 of 305

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

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]
* 11690.00	Average	H	122	313	-72.42	13.65	0.00	48.23	53.98	-5.75
* 11690.00	Peak	H	122	313	-61.01	13.65	0.00	59.64	73.98	-14.34
17535.00	Peak	H	-	-	-79.37	17.82	0.00	45.45	68.20	-22.75
23380.00	Peak	H	-	-	-55.93	3.85	-9.54	45.38	68.20	-22.82
29225.00	Peak	H	-	-	-58.51	5.60	-9.54	44.55	68.20	-23.65
35070.00	Peak	H	-	-	-56.09	8.11	-9.54	49.48	68.20	-18.72

Table 7-61. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5865MHz
 Channel: 173

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]
* 11730.00	Average	H	145	315	-73.43	13.70	0.00	47.27	53.98	-6.71
* 11730.00	Peak	H	145	315	-61.50	13.70	0.00	59.20	73.98	-14.78
17595.00	Peak	H	-	-	-79.55	17.70	0.00	45.15	68.20	-23.05
23460.00	Peak	H	-	-	-57.42	3.85	-9.54	43.89	68.20	-24.31
29325.00	Peak	H	-	-	-57.31	5.85	-9.54	46.00	68.20	-22.20
35190.00	Peak	H	-	-	-57.73	8.16	-9.54	47.89	68.20	-20.31

Table 7-62. Radiated Measurements MIMO – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

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]
* 11770.00	Average	H	129	314	-72.01	13.81	0.00	48.80	53.98	-5.18
* 11770.00	Peak	H	129	314	-60.23	13.81	0.00	60.58	73.98	-13.40
17655.00	Peak	H	-	-	-79.41	17.52	0.00	45.11	68.20	-23.09
23540.00	Peak	H	-	-	-58.01	3.84	-9.54	43.29	68.20	-24.91
29425.00	Peak	H	-	-	-57.35	5.87	-9.54	45.98	68.20	-22.22
35310.00	Peak	H	-	-	-56.17	8.04	-9.54	49.33	68.20	-18.87

Table 7-63. Radiated Measurements MIMO – Open

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	199	51	-56.27	11.51	0.00	62.24	68.20	-5.96
* 15600.00	Average	H	-	-	-79.61	16.74	0.00	44.13	53.98	-9.85
* 15600.00	Peak	H	-	-	-67.23	16.74	0.00	56.51	73.98	-17.47
* 20800.00	Average	H	-	-	-66.50	3.48	-9.54	34.44	53.98	-19.54
* 20800.00	Peak	H	-	-	-58.74	3.48	-9.54	42.20	73.98	-31.78
26000.00	Peak	H	-	-	-59.37	5.15	-9.54	43.23	68.20	-24.97

Table 7-64. Radiated Measurements MIMO with WCP

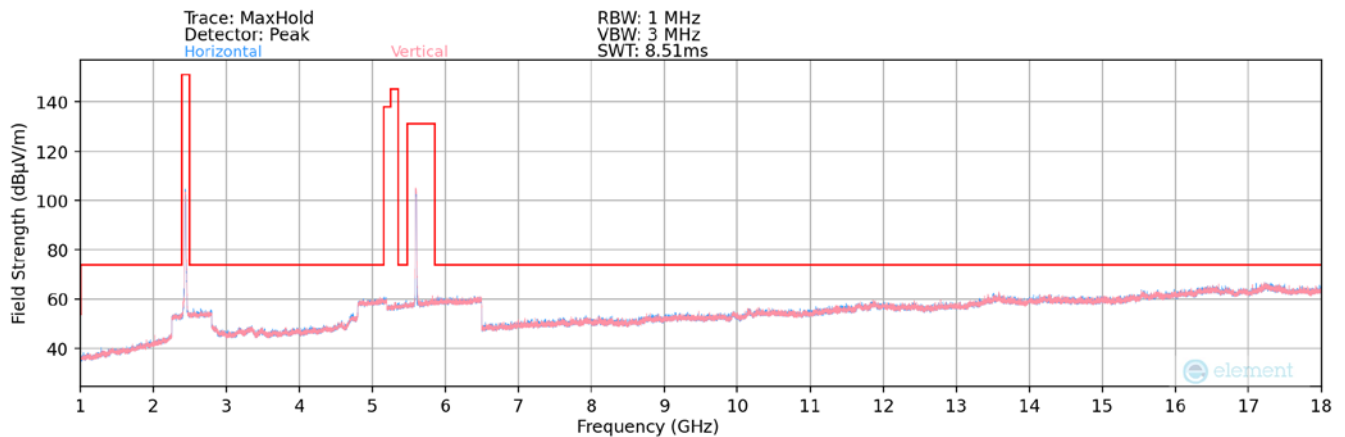
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 259 of 305

7.6.3 Simultaneous Tx Radiated Spurious Emissions Measurements

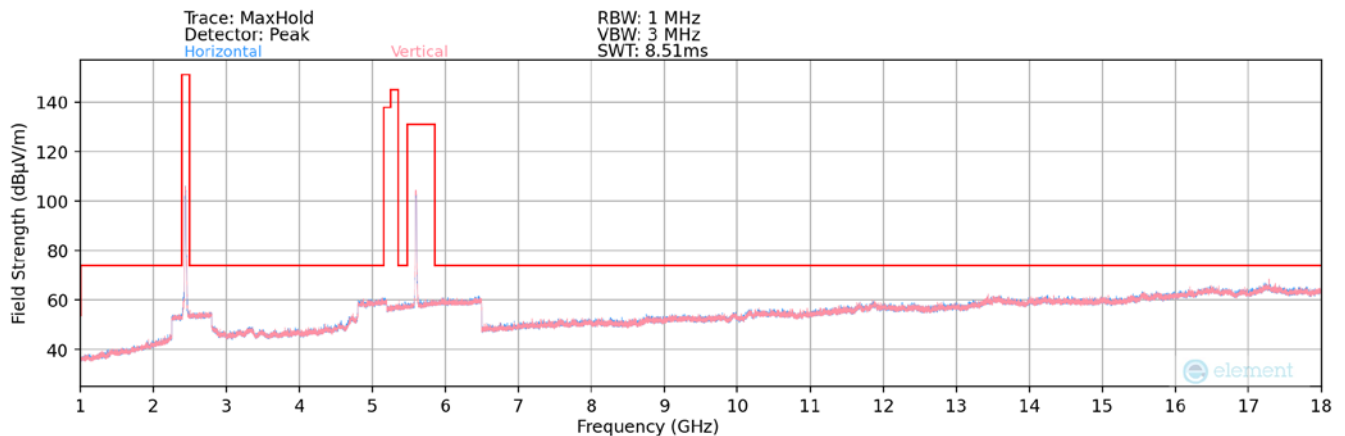
\$15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	6	120
Operating Frequency (MHz)	2437	5600
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-65. Simultaneous Transmission Config-1



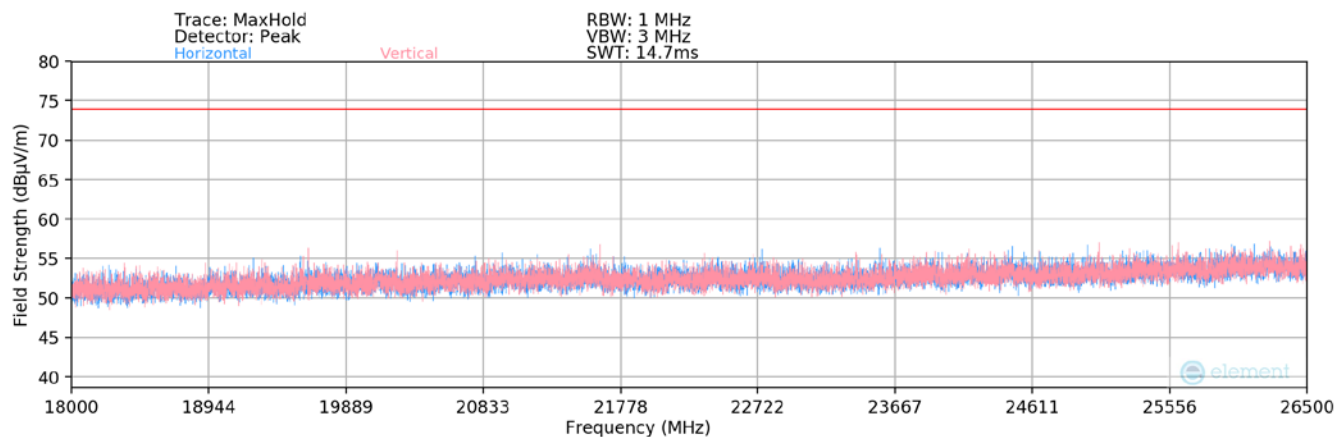
Plot 7-395. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz) – Open



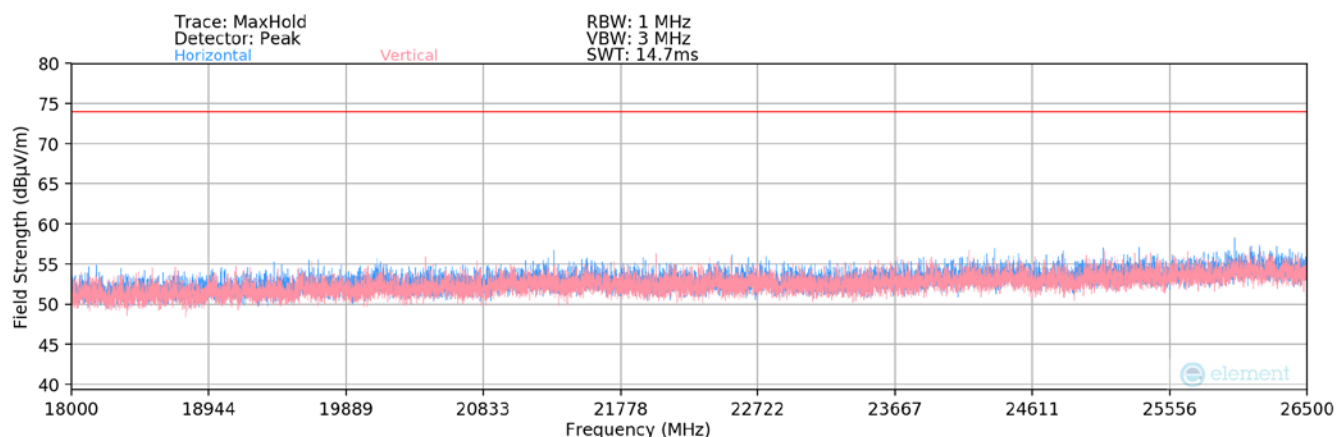
Plot 7-396. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 260 of 305

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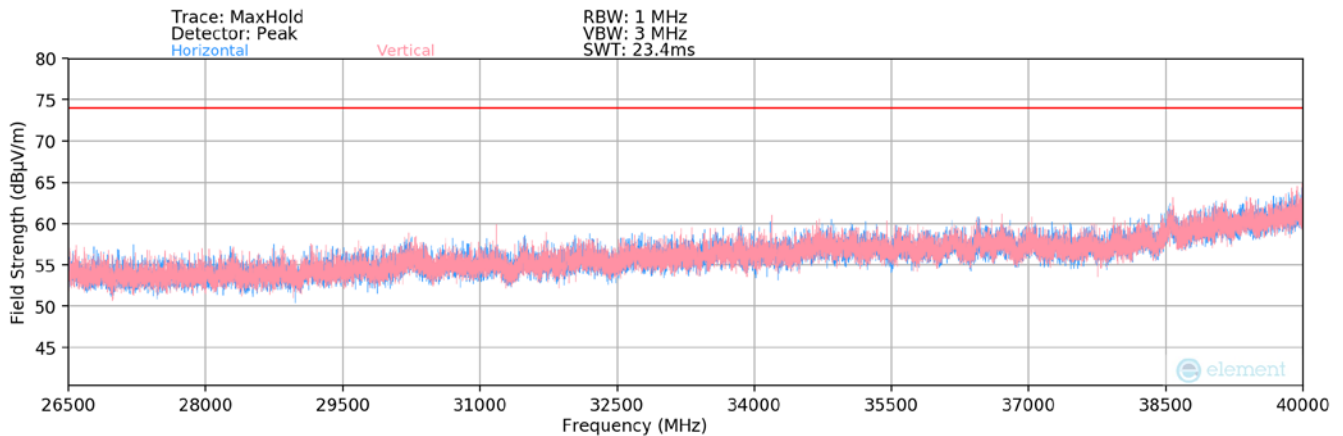
Plot 7-397. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz) – Open



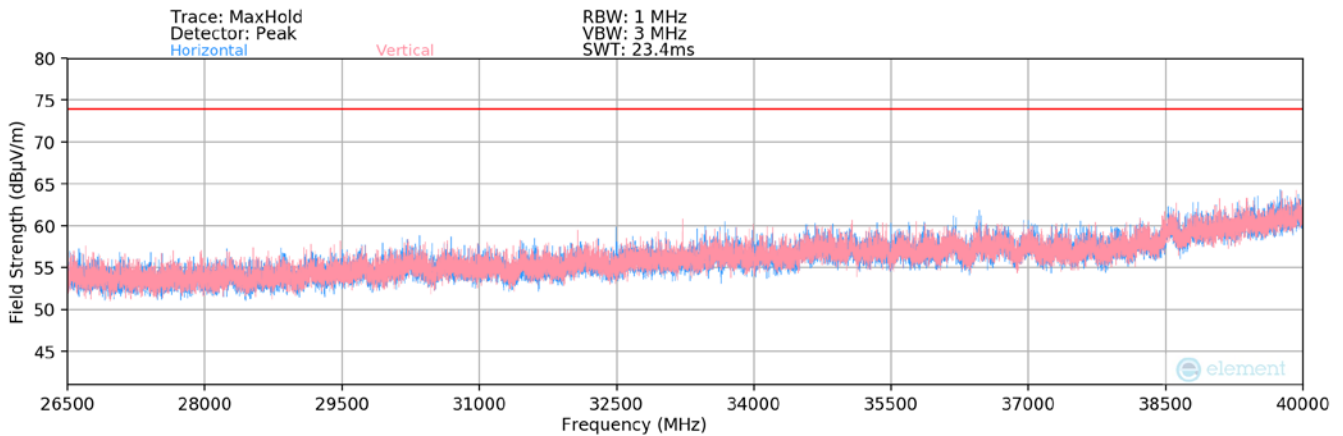
Plot 7-398. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 261 of 305

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Plot 7-399. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz) – Open



Plot 7-400. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz) – Closed

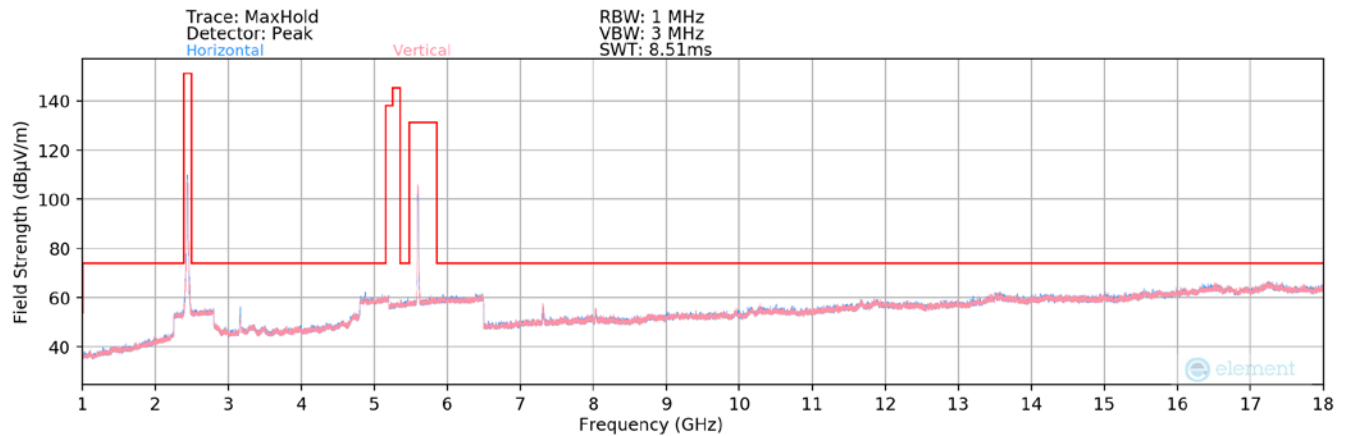
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
3163.00	Peak	H	-	-	-67.90	5.18	44.28	73.98	-29.70
6326.00	Peak	H	-	-	-69.95	9.89	46.94	73.98	-27.04
8763.00	Peak	H	-	-	-70.85	13.83	49.98	73.98	-23.99
10474.00	Peak	H	-	-	-71.37	16.61	52.24	73.98	-21.74

Table 7-66. Radiated Measurements (Ant1 5GHz – Ant2 2.4 GHz) – Open

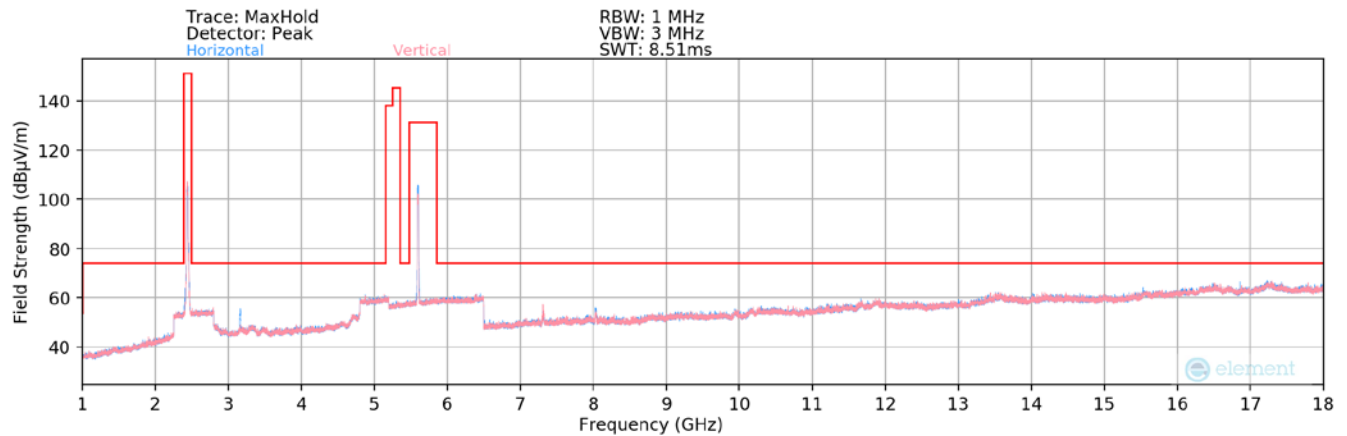
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 262 of 305

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	120
Operating Frequency (MHz)	2437	5600
Data Rate (Mbps)	1	6
Mode	802.11g	802.11a

Table 7-67. Dual Band Simultaneous Transmission



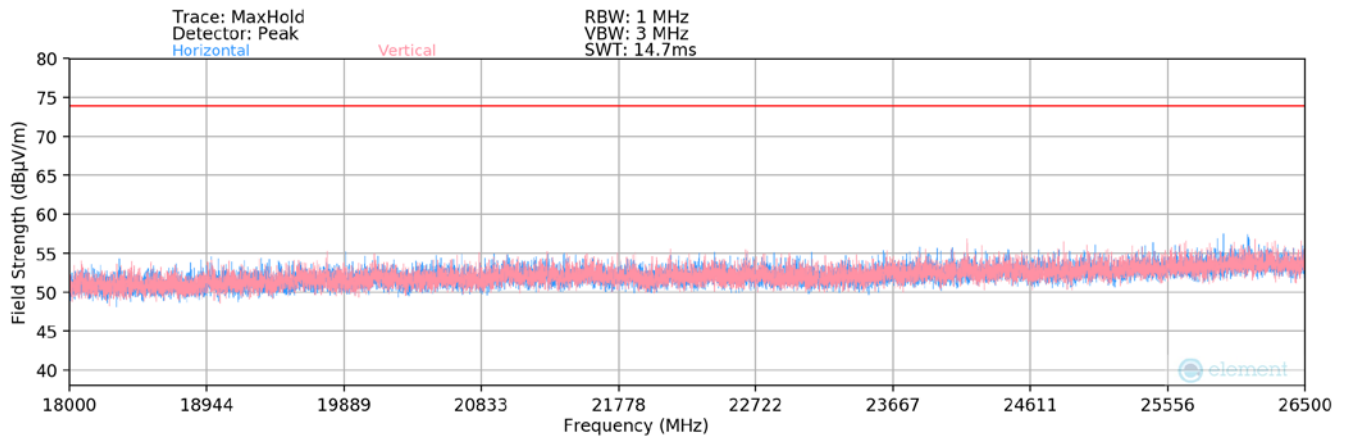
Plot 7-401. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx) – Open



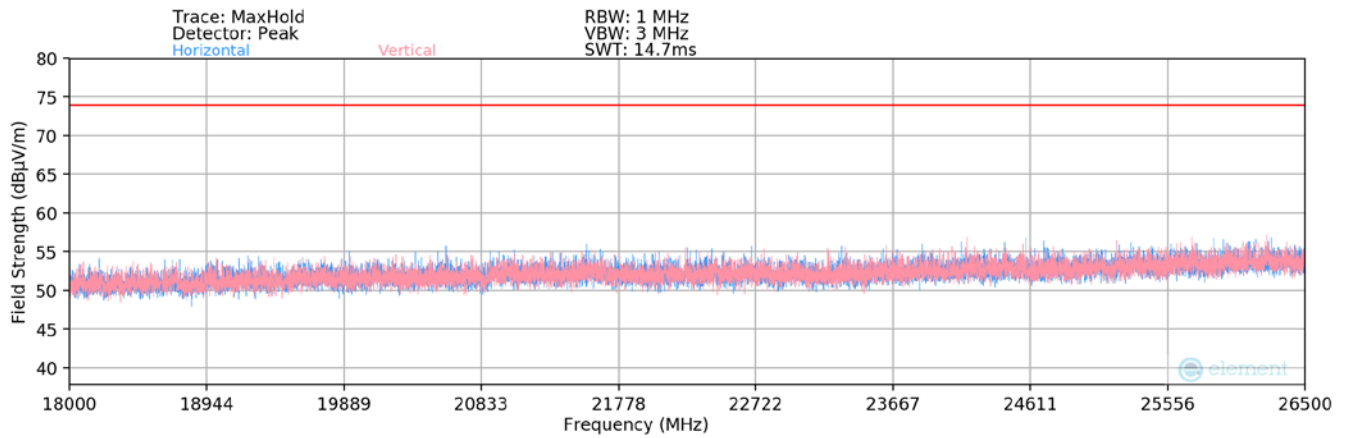
Plot 7-402. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 263 of 305

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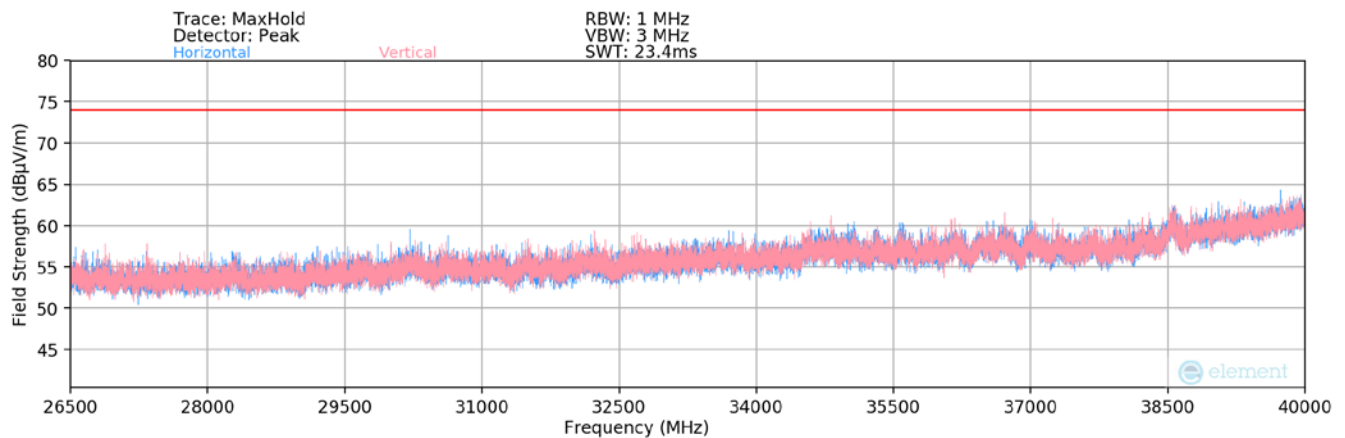


Plot 7-403. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx) – Open

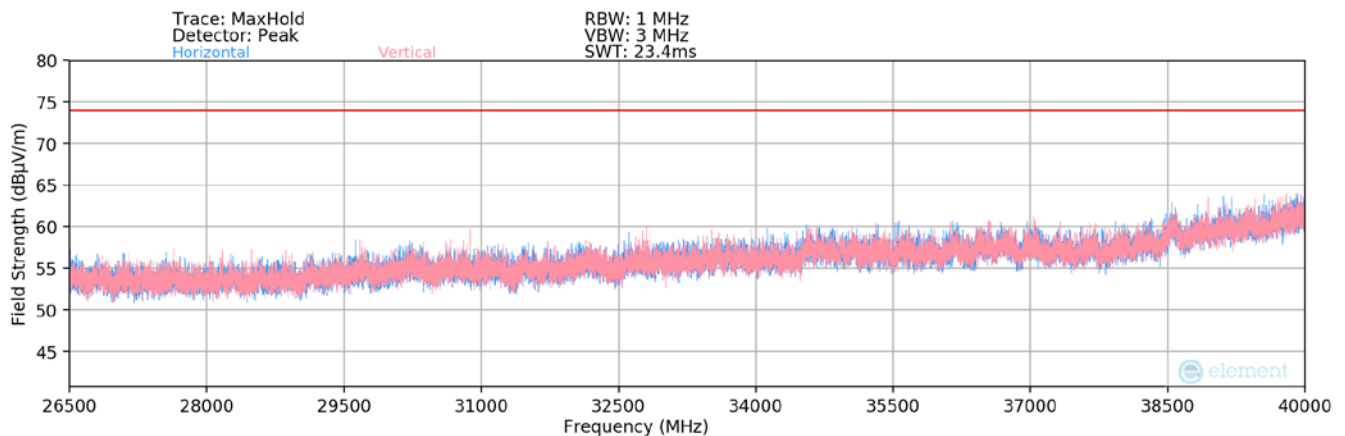


Plot 7-404. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 264 of 305



Plot 7-405. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx) – Open



Plot 7-406. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx) – Closed

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]
3160.00	Peak	H	102.00	304.00	-62.54	8.05	52.51	73.98	-21.47
* 4870.00	Avg	H	168.00	215.00	-81.77	21.61	46.84	53.98	-7.14
* 4870.00	Peak	H	168.00	215.00	-72.07	21.61	56.54	73.98	-17.44
* 7310.00	Avg	V	102.00	358.00	-79.36	16.45	44.09	53.98	-9.89
* 7310.00	Peak	V	102.00	358.00	-65.88	16.45	57.57	73.98	-16.41
* 8035.00	Avg	V	105.00	43.00	-79.32	16.81	44.49	53.98	-9.49
* 8035.00	Peak	V	105.00	43.00	-68.87	16.81	54.94	73.98	-19.04

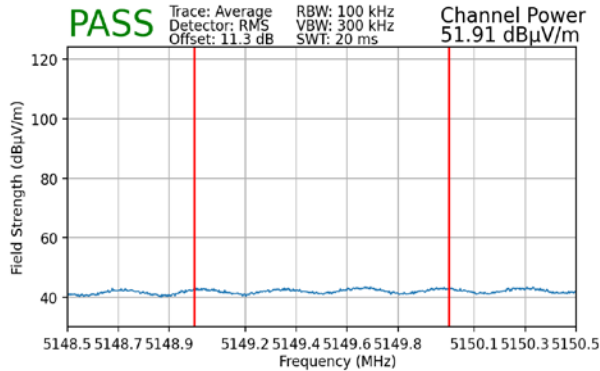
Table 7-68. Radiated Measurements (Dual Band Simult. Tx) – Open

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1-A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 265 of 305

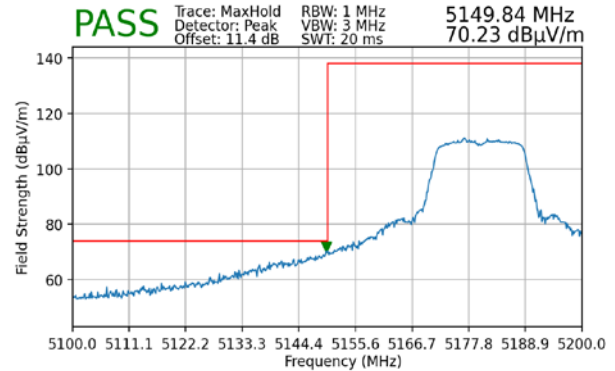
7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MSC0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

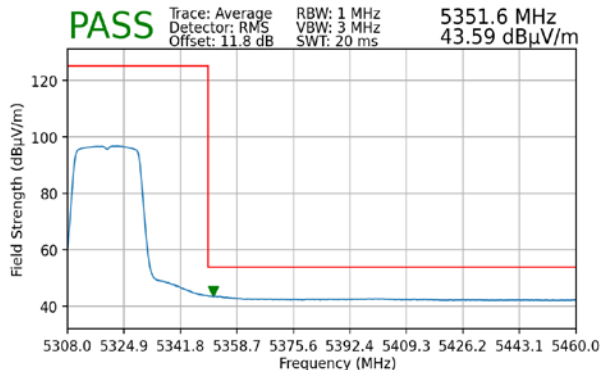


Plot 7-407. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

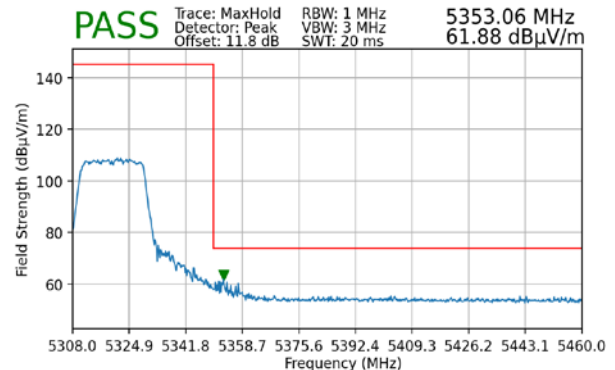


Plot 7-408. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-409. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



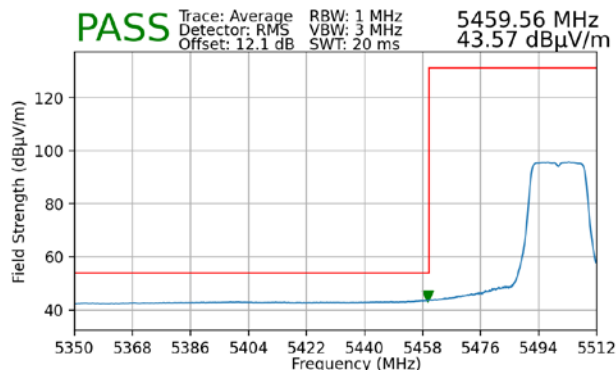
Plot 7-410. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMF721JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 266 of 305

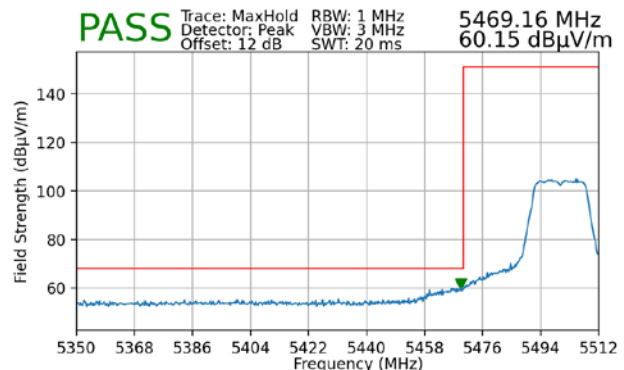
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

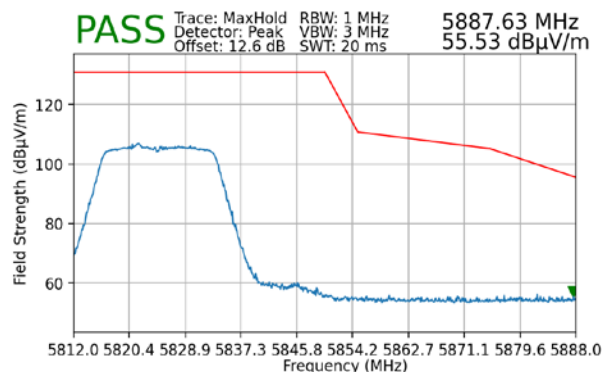


Plot 7-411. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-412. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

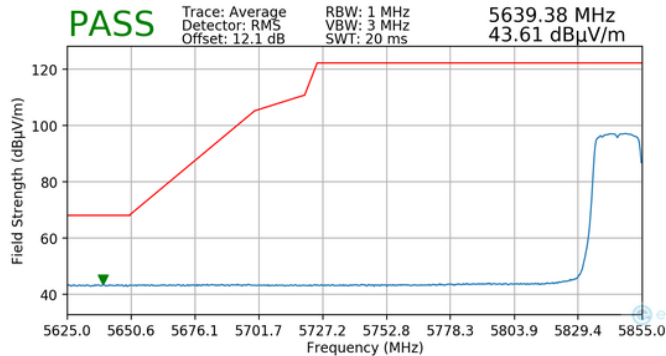
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



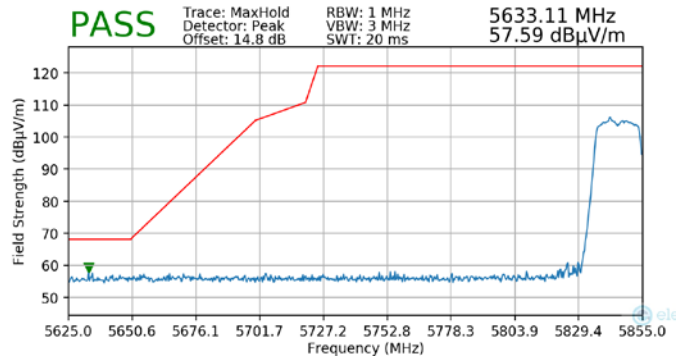
Plot 7-413. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 267 of 305

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

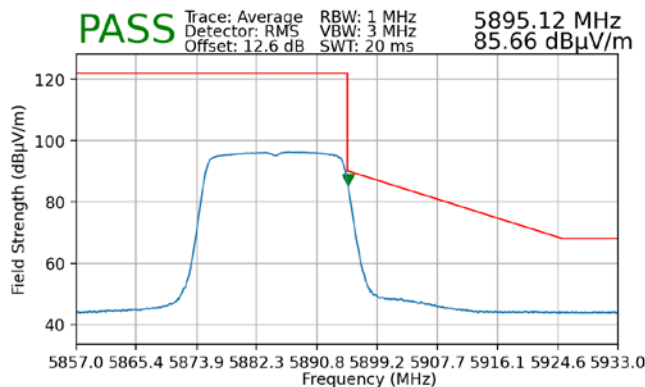


Plot 7-414. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4)

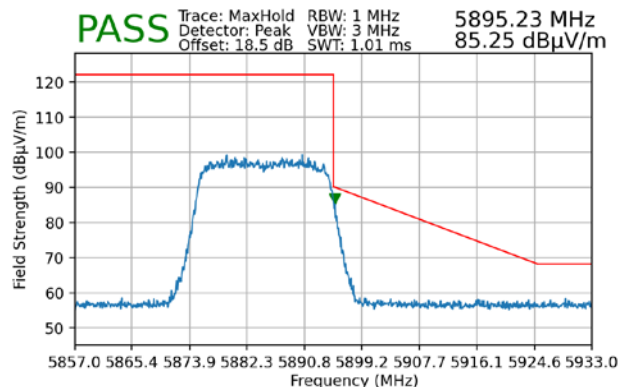


Plot 7-415. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-416. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4)



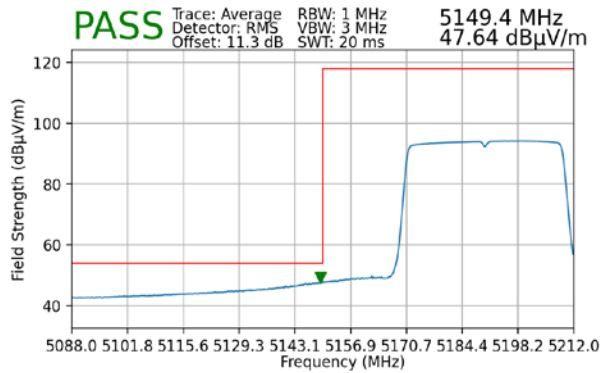
Plot 7-417. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 268 of 305

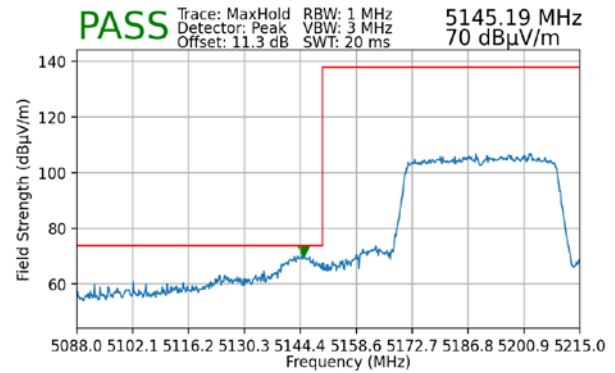
7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

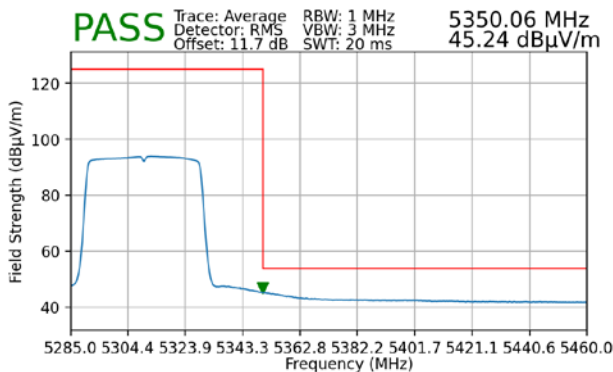


Plot 7-418. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

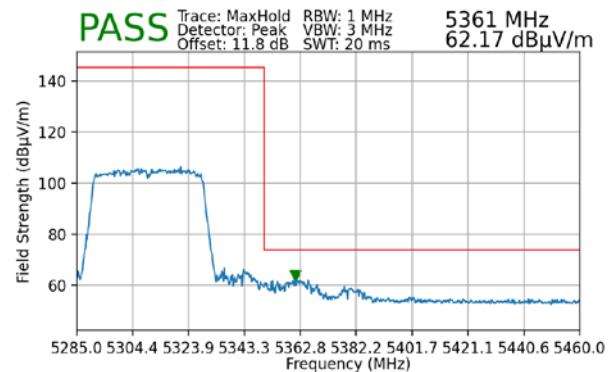


Plot 7-419. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-420. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)

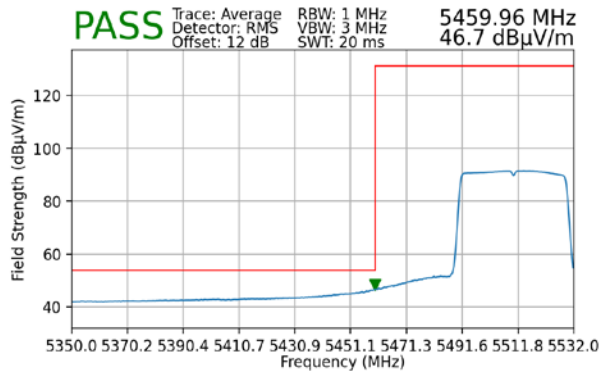


Plot 7-421. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

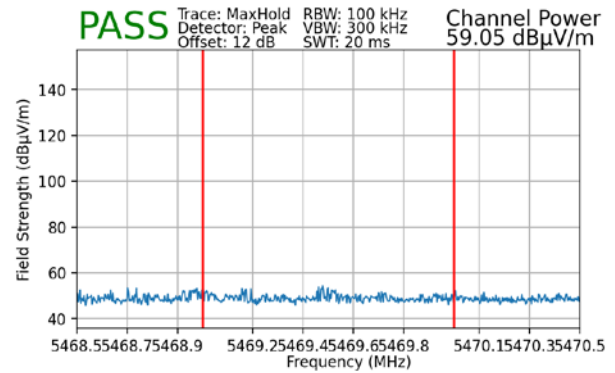
FCC ID: A3LSMF721JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 269 of 305

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Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

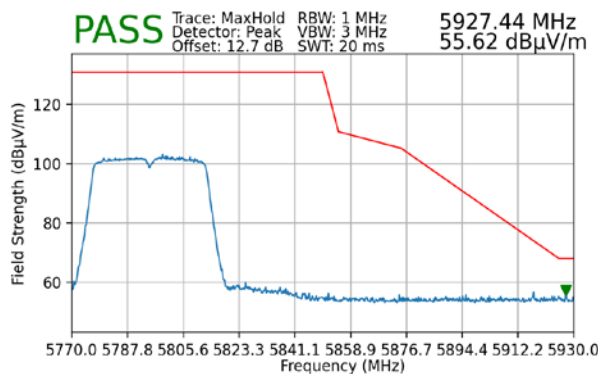


Plot 7-422. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-423. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



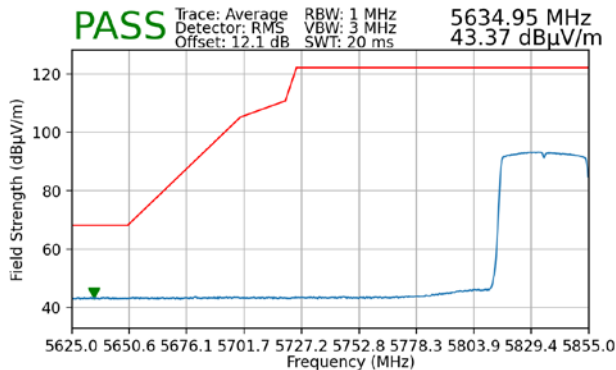
Plot 7-424. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: A3LSMF721JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 270 of 305

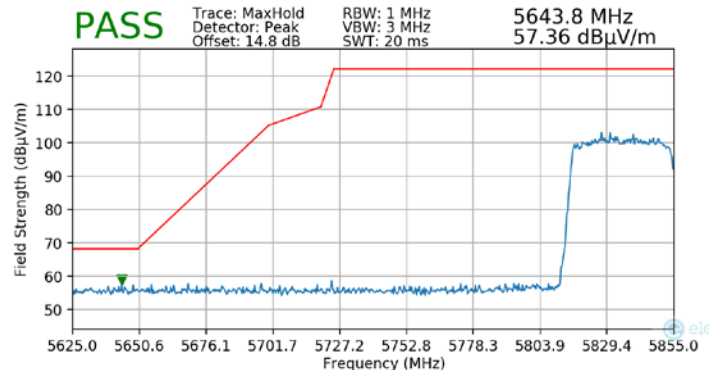
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167

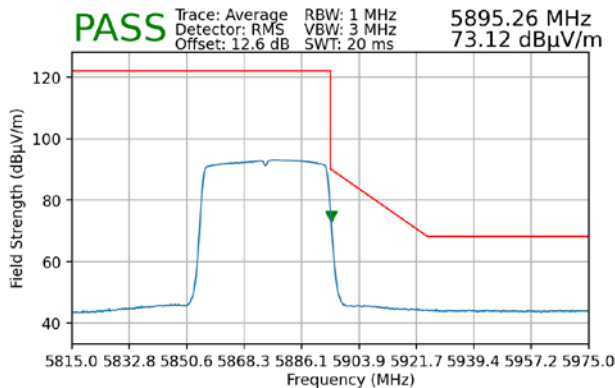


Plot 7-425. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4)

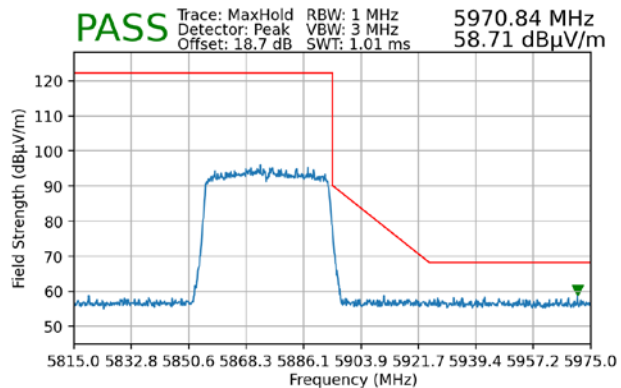


Plot 7-426. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5875MHz
 Channel: 175



Plot 7-427. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4)



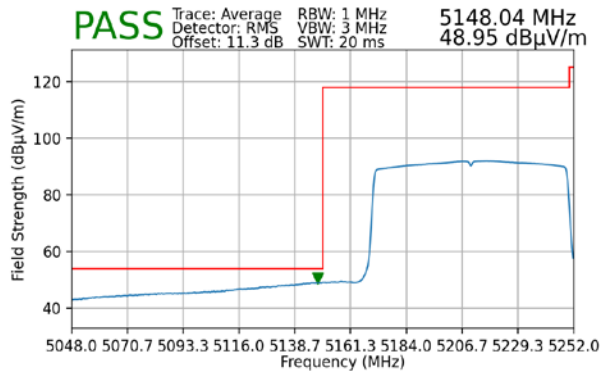
Plot 7-428. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 271 of 305

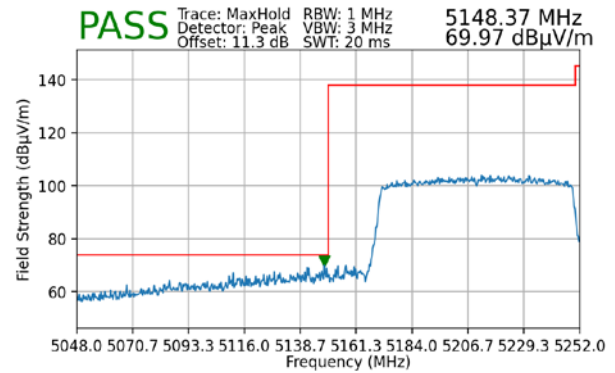
7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

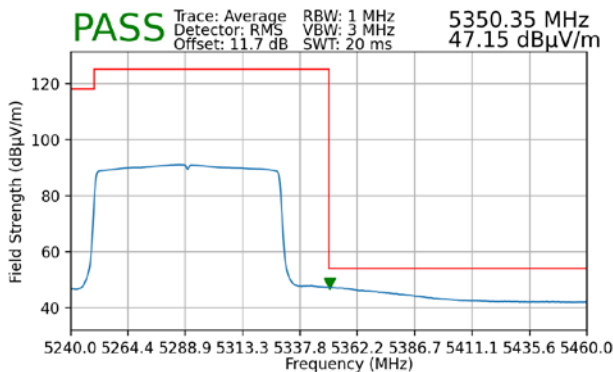


Plot 7-429. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

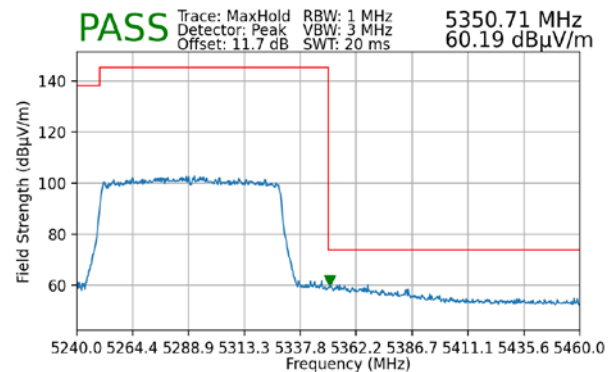


Plot 7-430. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-431. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)

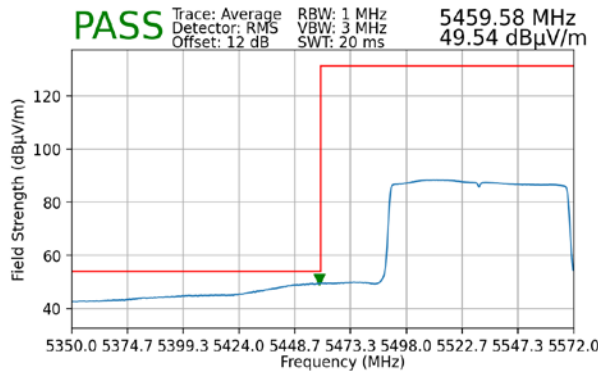


Plot 7-432. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

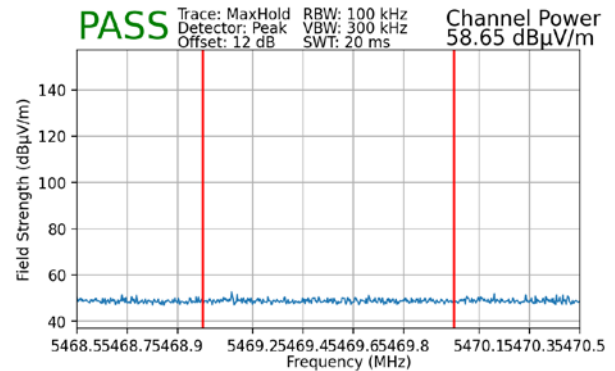
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 272 of 305

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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106

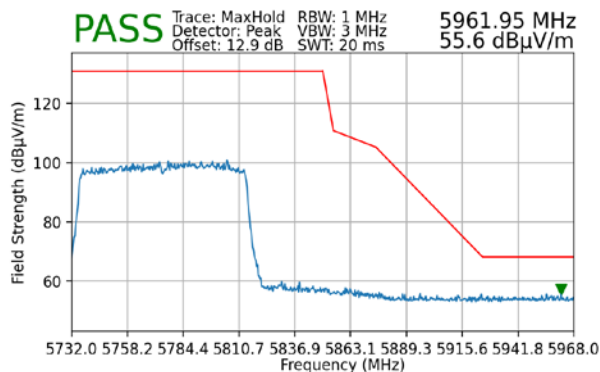


Plot 7-433. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-434. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155

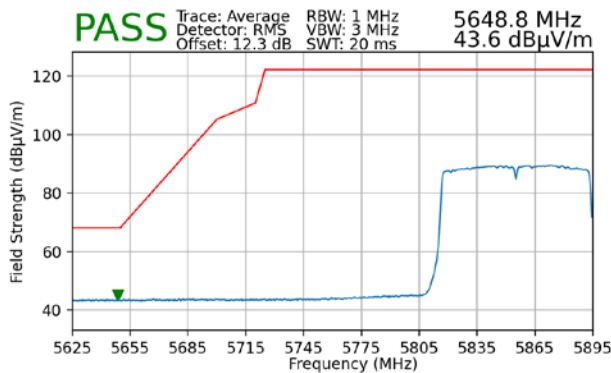


Plot 7-435. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

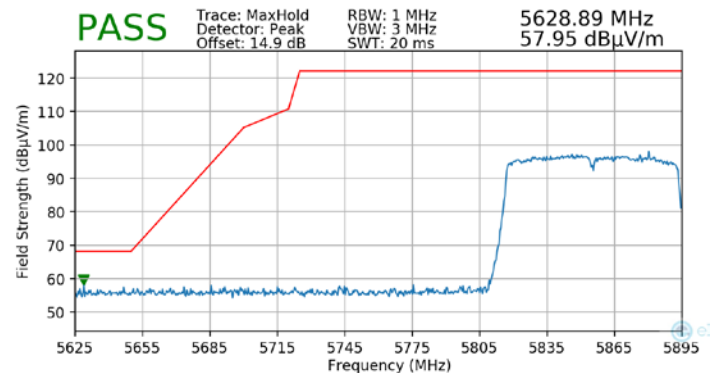
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 273 of 305

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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171

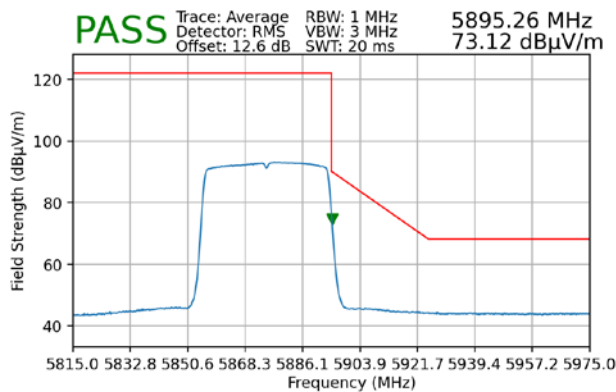


Plot 7-436. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4)

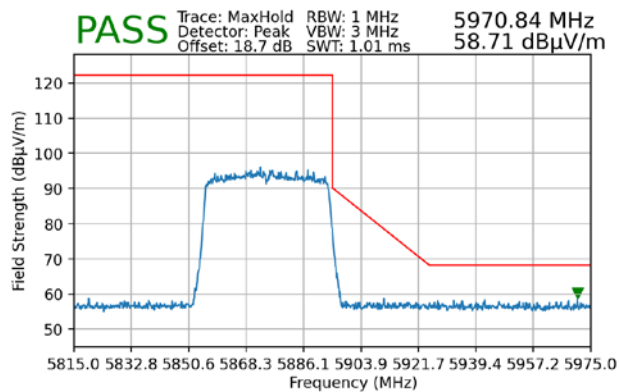


Plot 7-437. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-438. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4)

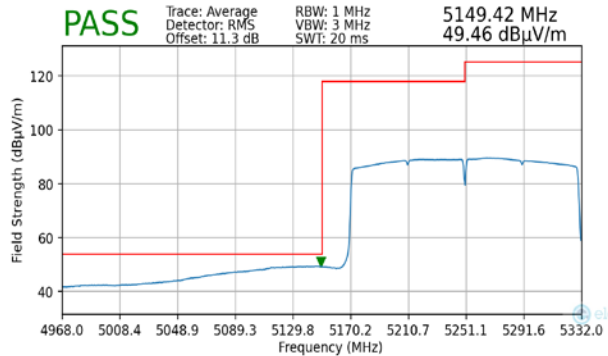


Plot 7-439. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

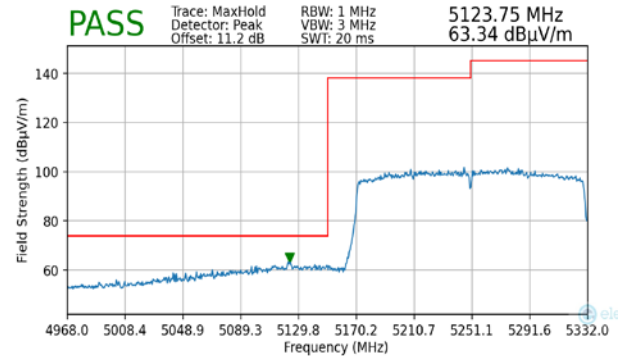
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 274 of 305

7.6.7 SISO Antenna-1 Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

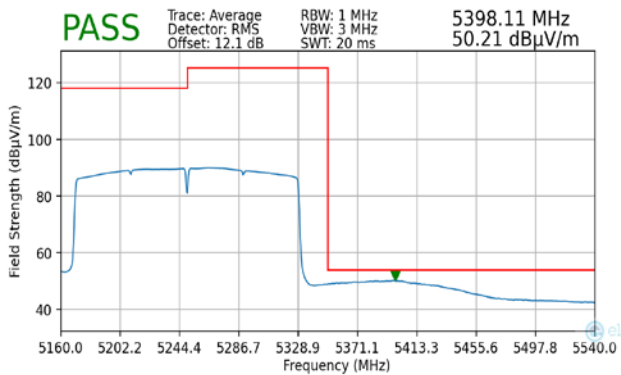


Plot 7-440. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

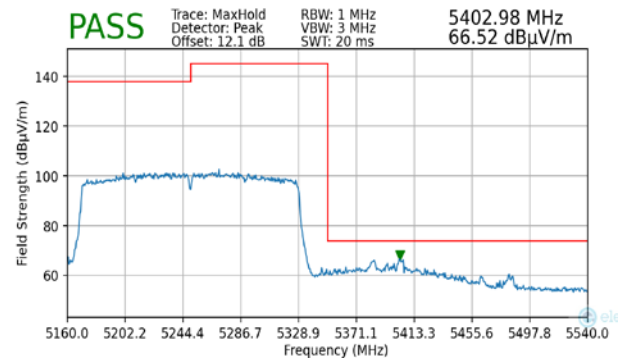


Plot 7-441. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 7-442. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



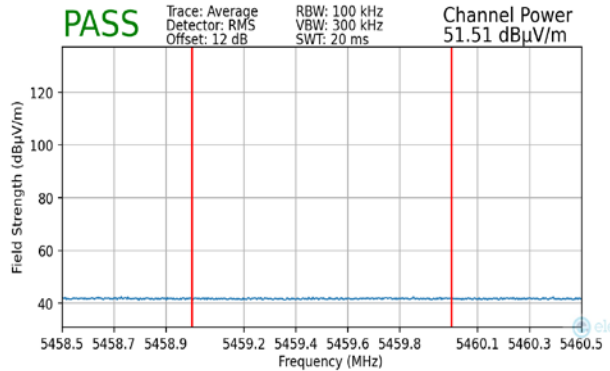
Plot 7-443. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMF721JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 275 of 305

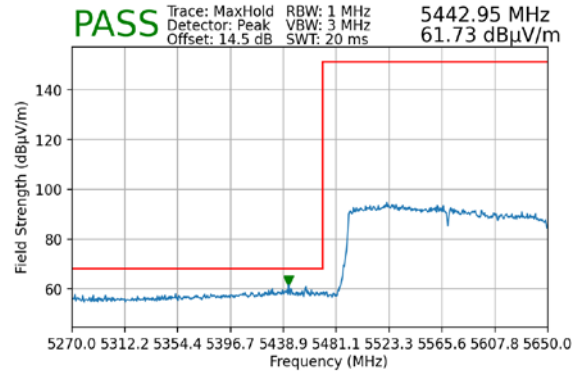
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5570MHz
Channel: 114

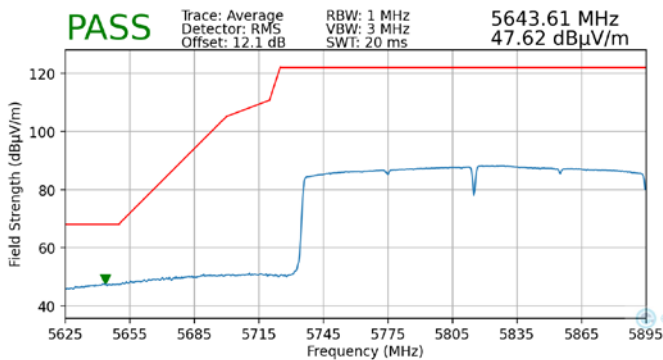


Plot 7-444. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)

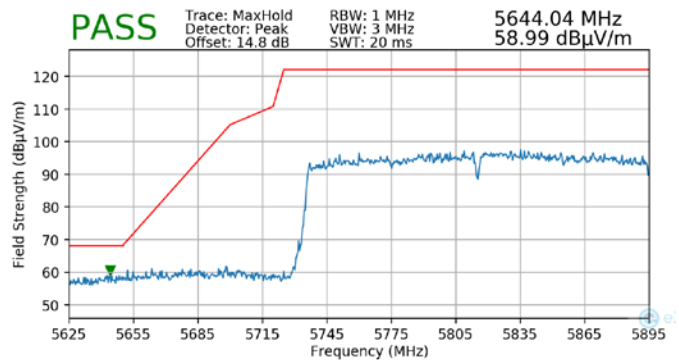


Plot 7-445. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5815MHz
Channel: 163



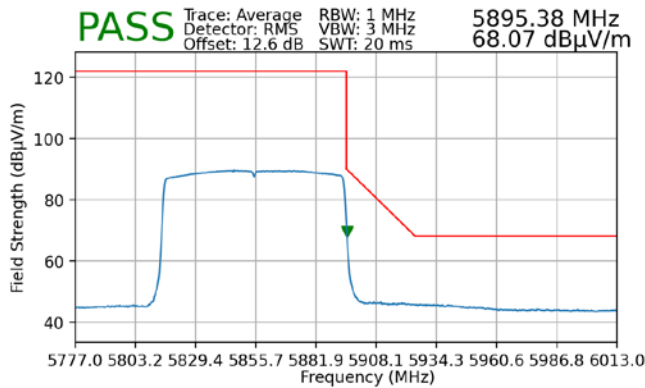
Plot 7-446. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4)



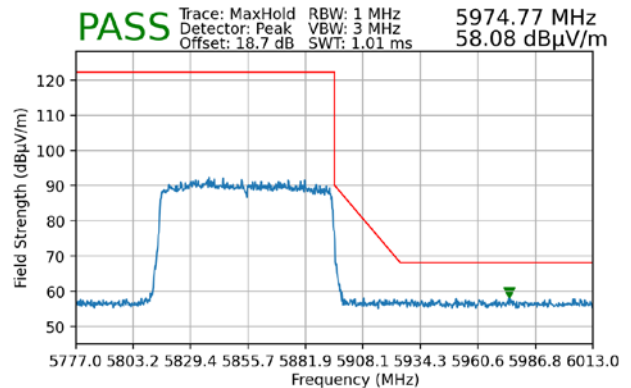
Plot 7-447. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 276 of 305

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



**Plot 7-448. Radiated Upper Band Edge Plot SISO
ANT1 (Average – UNII Band 4)**



**Plot 7-449. Radiated Upper Band Edge Plot SISO
ANT1 (Peak – UNII Band 4)**

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 277 of 305

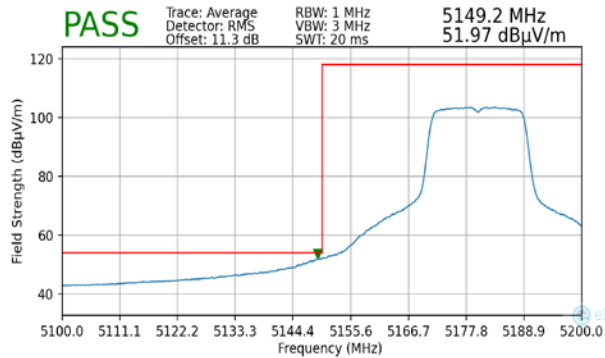
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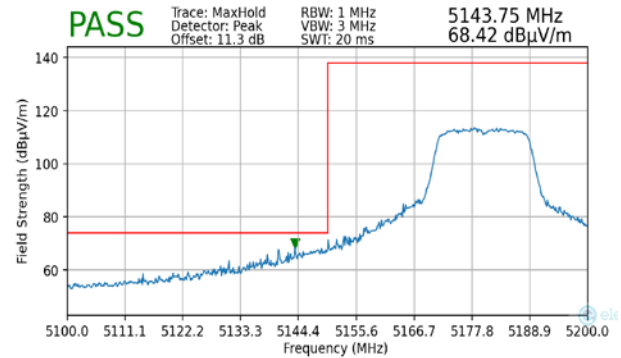
7.6.8 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

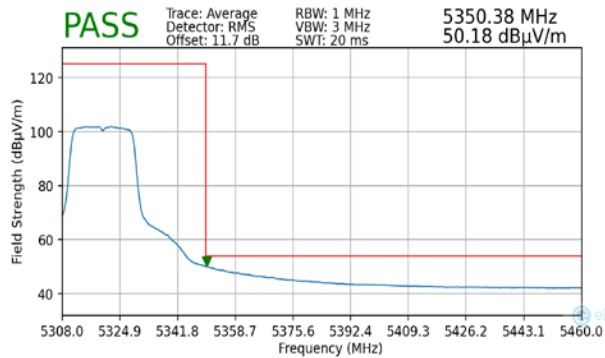


Plot 7-450. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

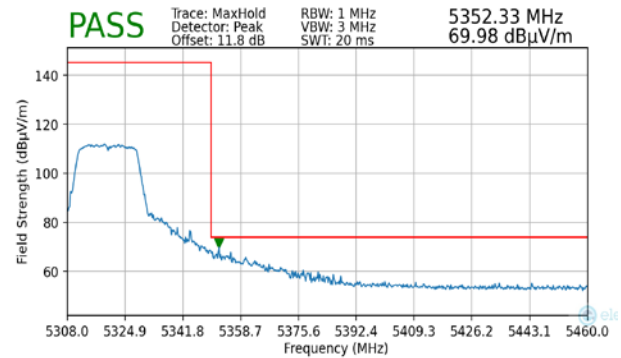


Plot 7-451. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-452. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

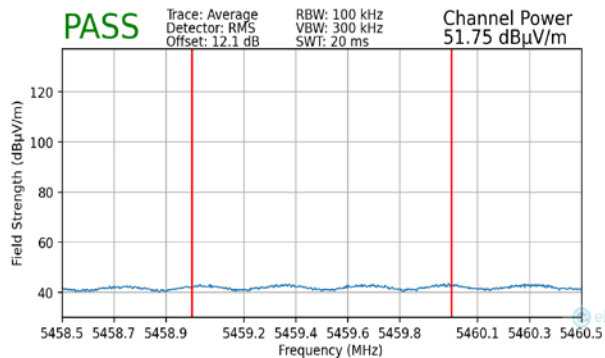


Plot 7-453. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

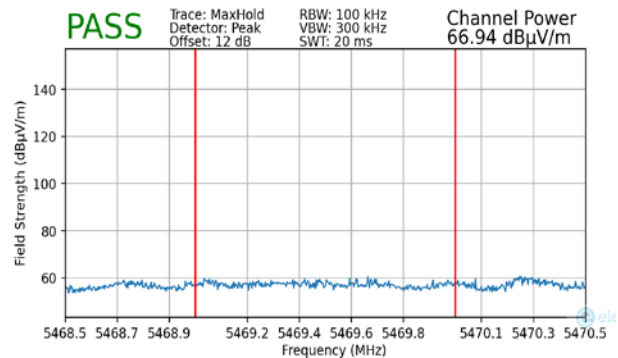
FCC ID: A3LSMF721JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 278 of 305

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Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

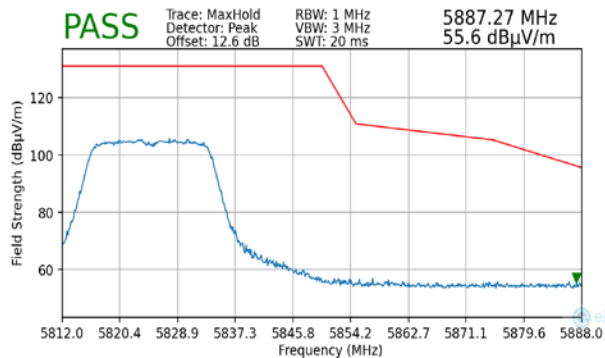


Plot 7-454. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-455. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

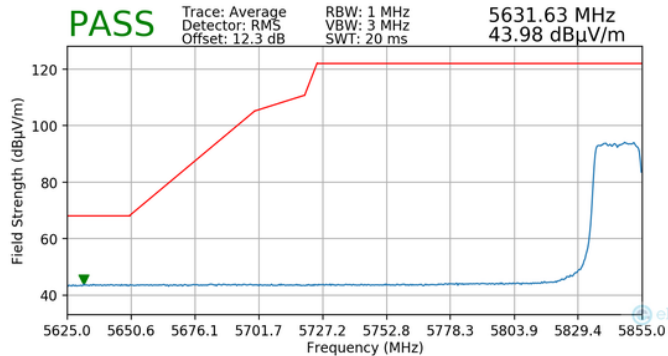
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



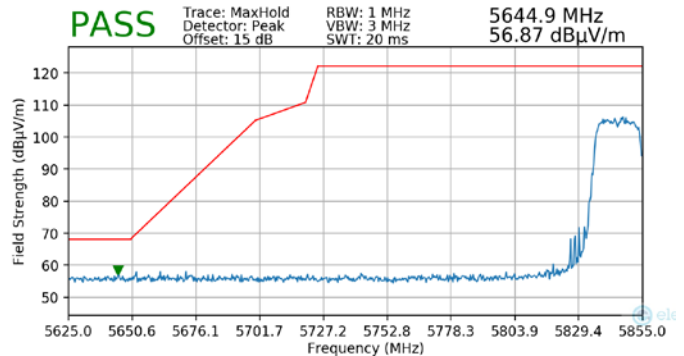
Plot 7-456. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 279 of 305

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

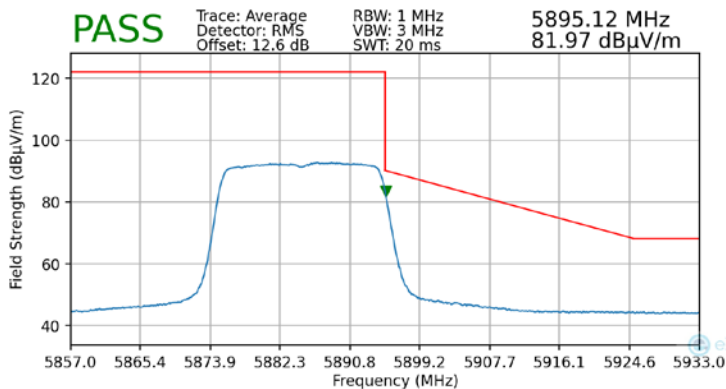


Plot 7-457. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

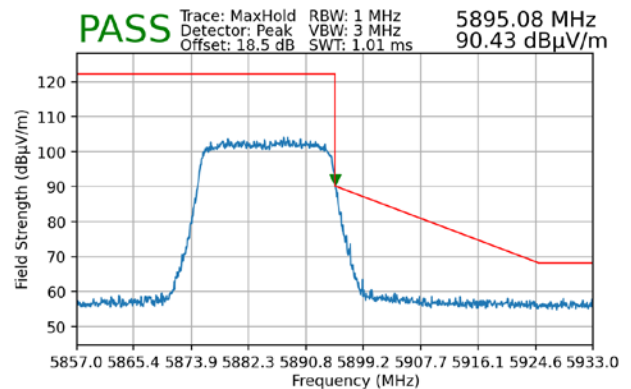


Plot 7-458. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-459. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



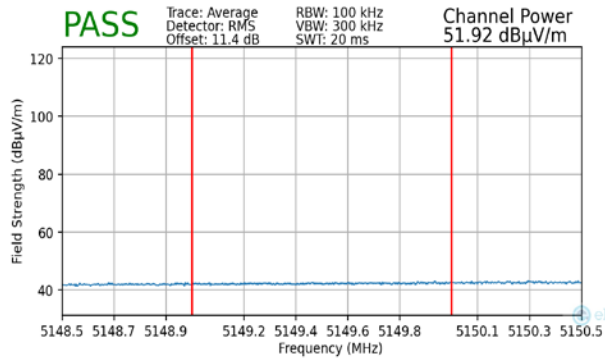
Plot 7-460. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 280 of 305

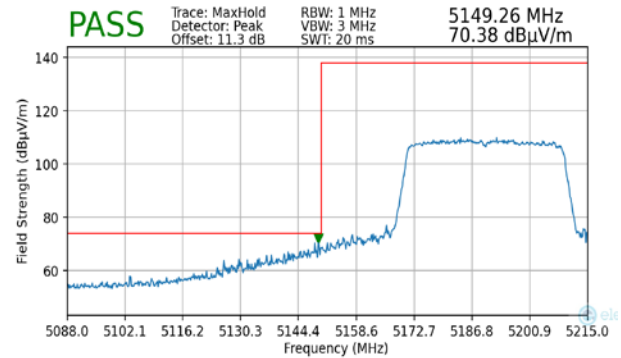
7.6.9 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

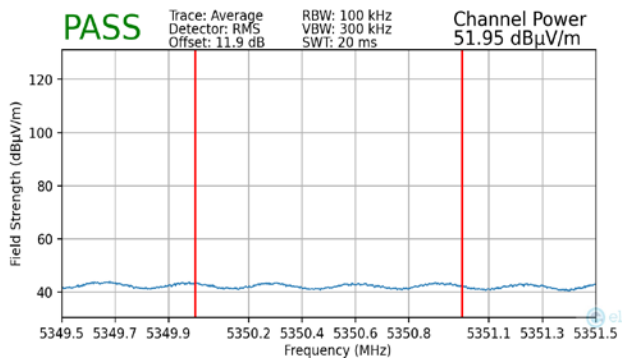


Plot 7-461. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

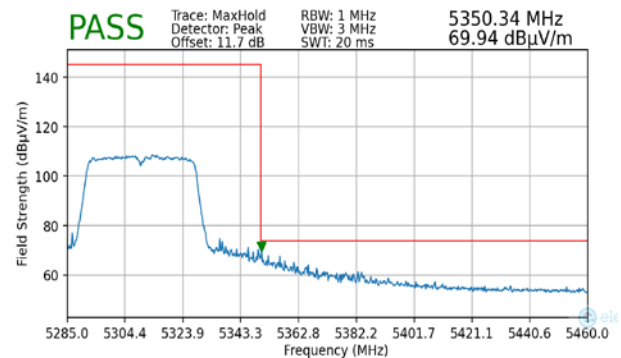


Plot 7-462. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-463. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

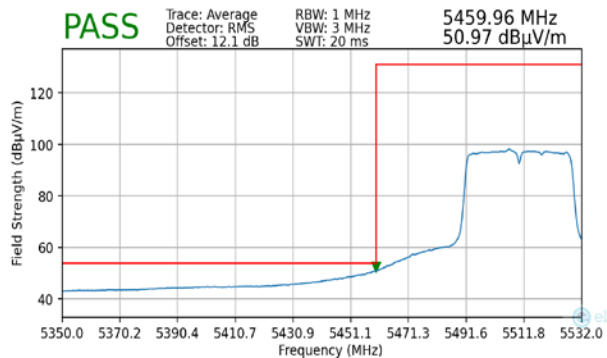


Plot 7-464. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

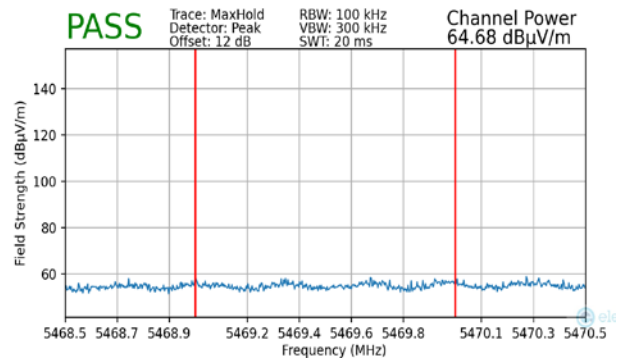
FCC ID: A3LSMF721JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset		Page 281 of 305

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Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

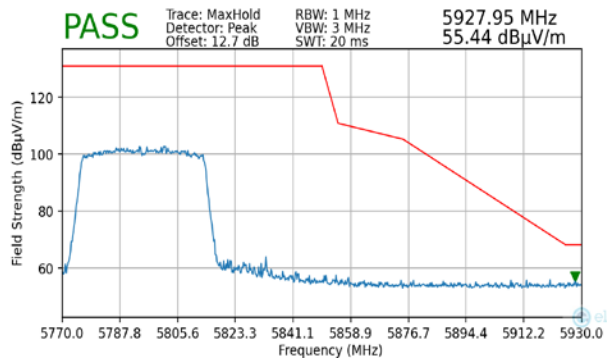


Plot 7-465. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-466. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

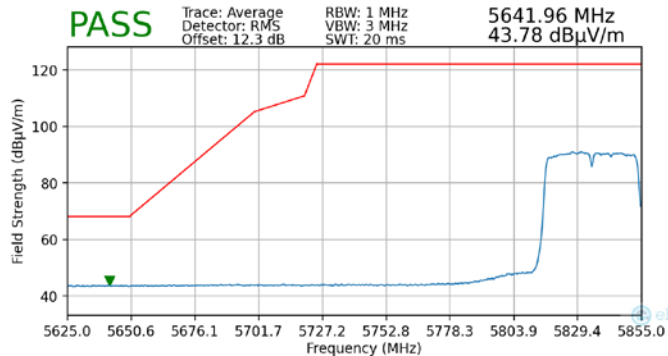
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



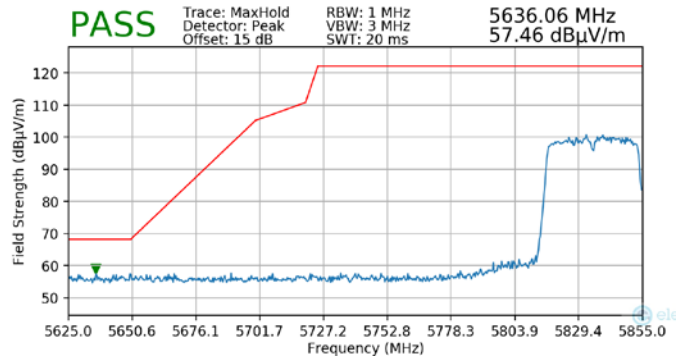
Plot 7-467. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5835MHz
Channel:	167

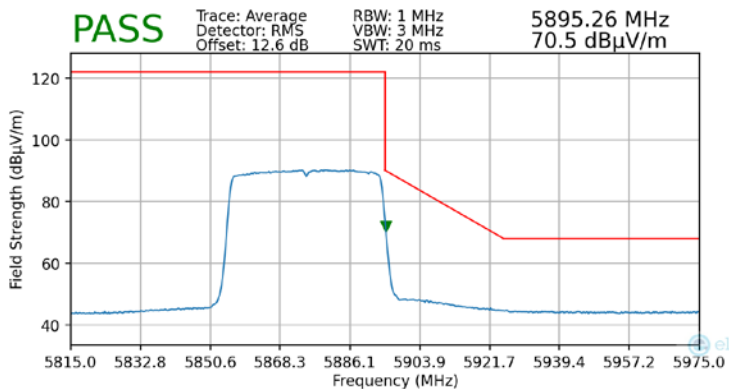


Plot 7-468. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

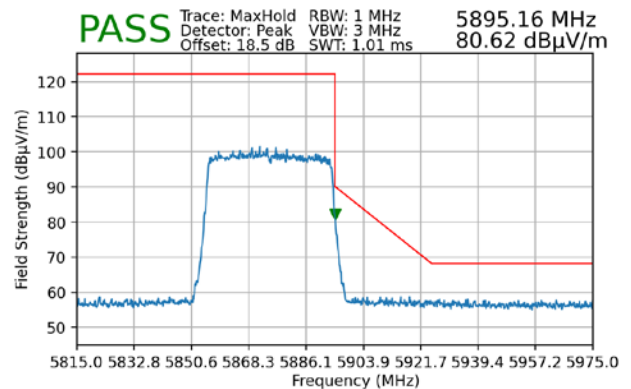


Plot 7-469. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5875MHz
Channel:	175



Plot 7-470. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



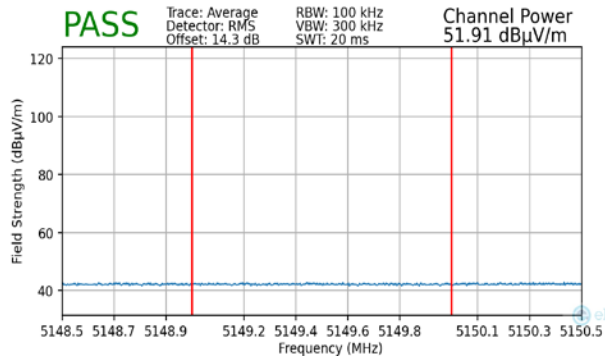
Plot 7-471. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 283 of 305

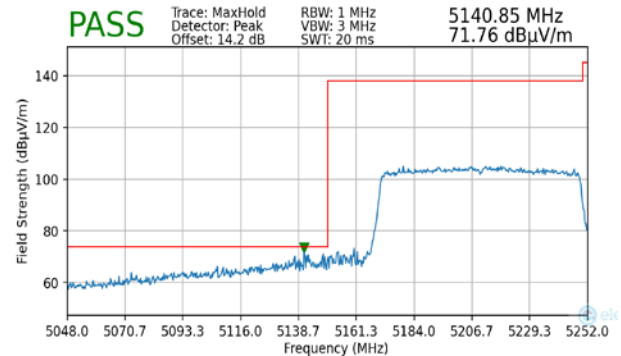
7.6.10 MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

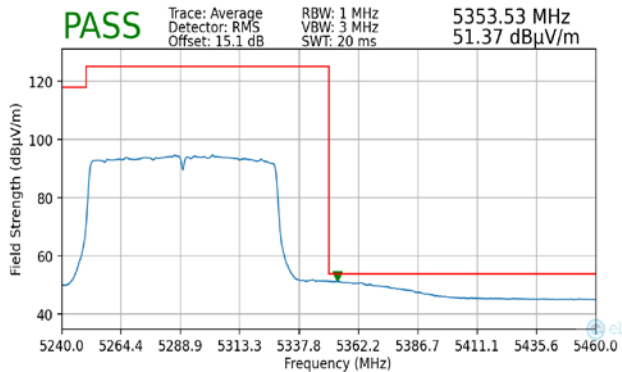


Plot 7-472. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

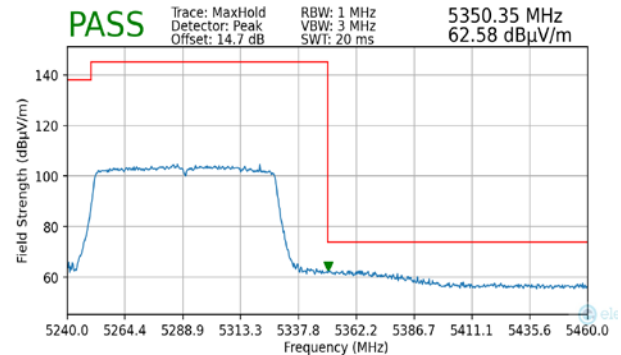


Plot 7-473. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-474. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

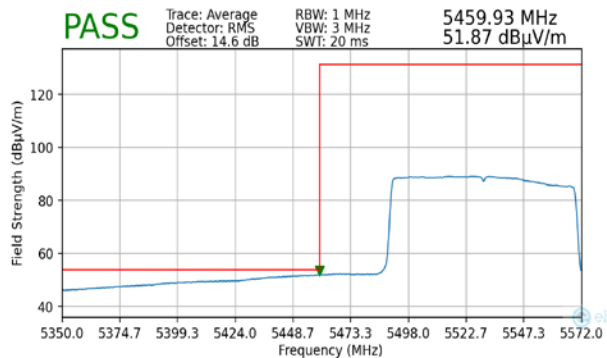


Plot 7-475. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

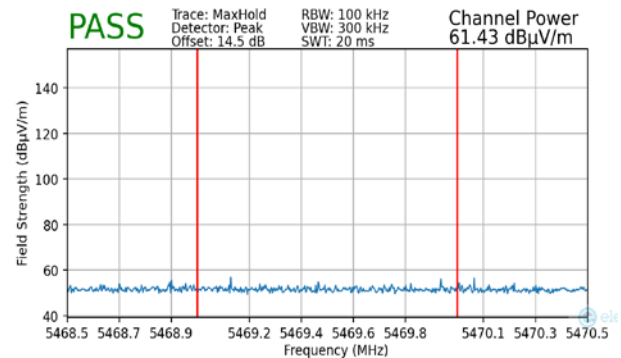
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 284 of 305

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Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

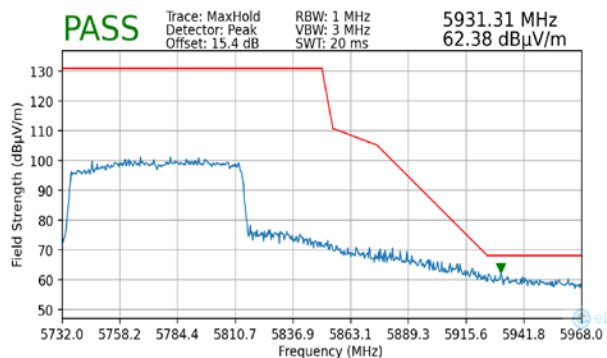


**Plot 7-476. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C)**



**Plot 7-477. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C)**

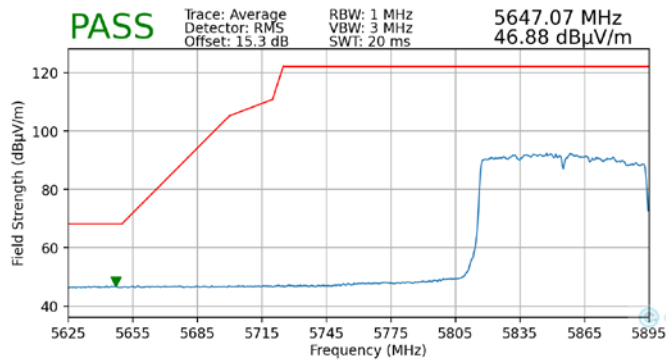
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



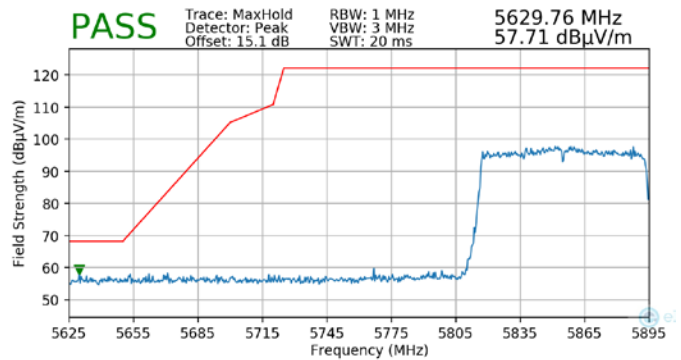
**Plot 7-478. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 3)**

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 285 of 305

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171

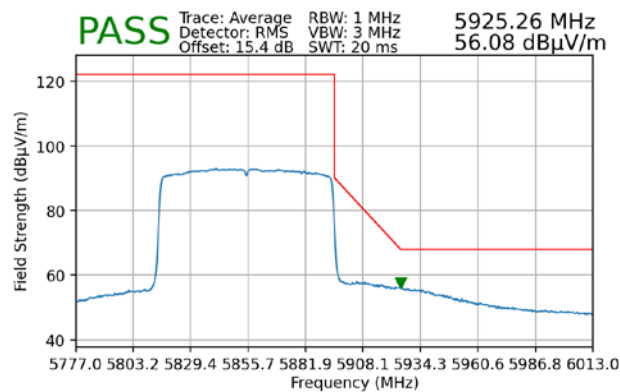


Plot 7-479. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

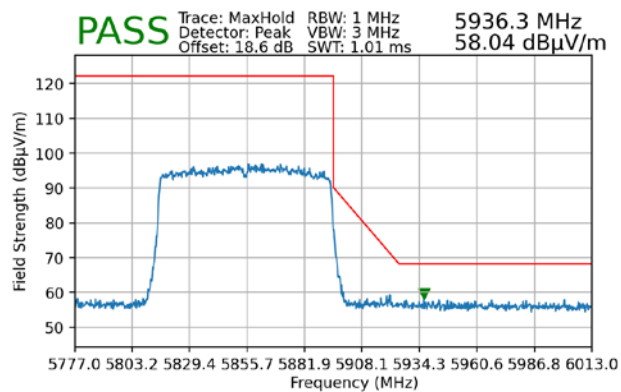


Plot 7-480. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-481. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

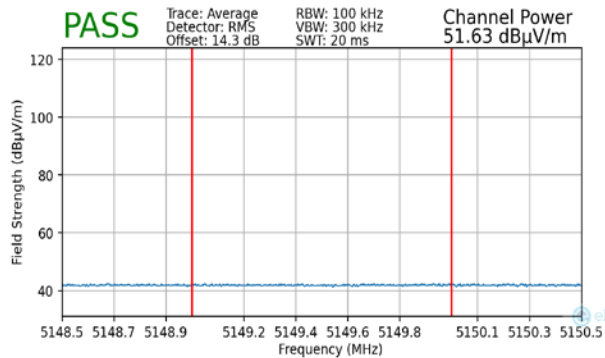


Plot 7-482. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

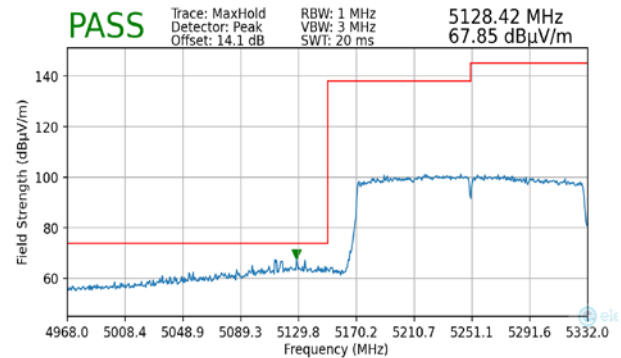
FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2206140073-11-R1.A3L	Test Dates: 4/8/2022 – 7/30/2022	EUT Type: Portable Handset	Page 286 of 305

7.6.11 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

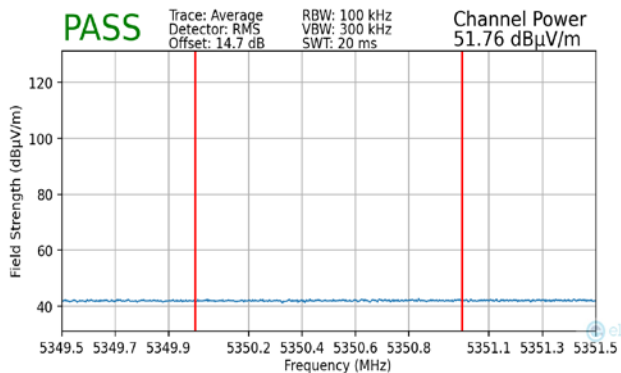


Plot 7-483. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

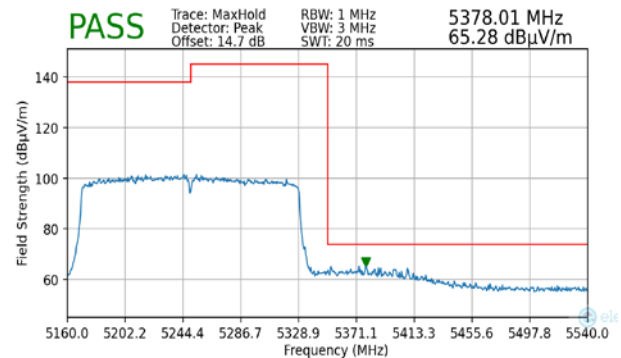


Plot 7-484. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



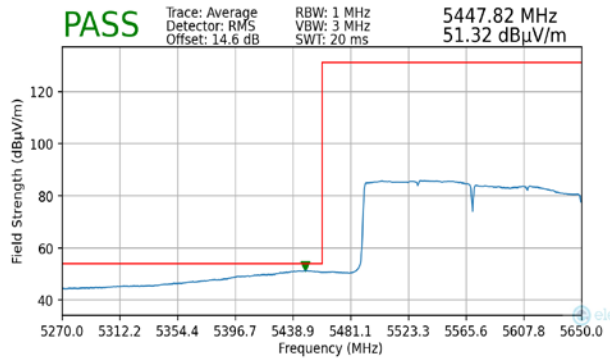
Plot 7-485. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



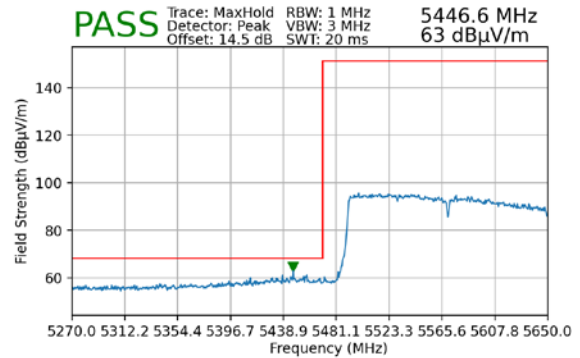
Plot 7-486. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114

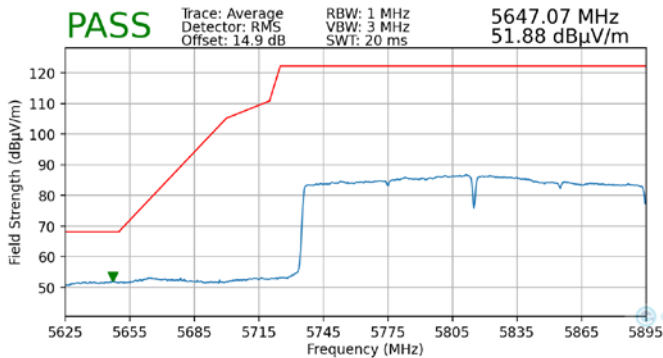


Plot 7-487. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

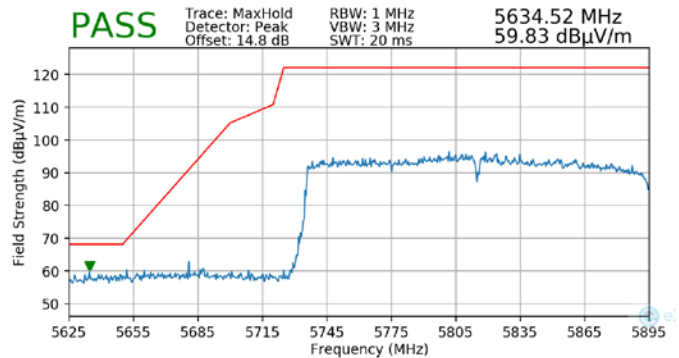


Plot 7-488. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



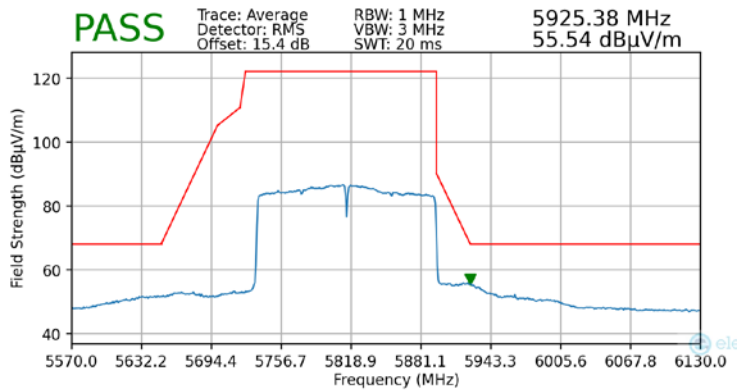
Plot 7-489. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)



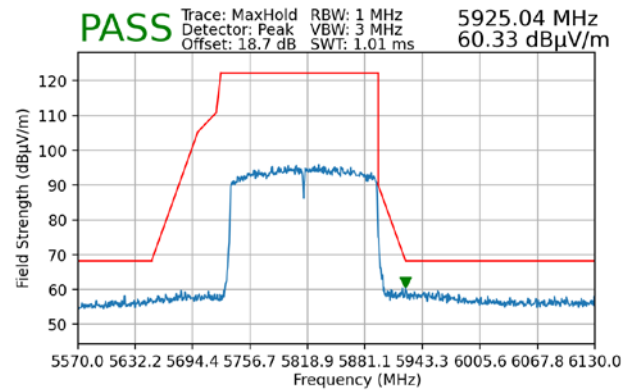
Plot 7-490. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5815MHz
 Channel: 163



Plot 7-491. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-492. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-69 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-69. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

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

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Test Setup

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

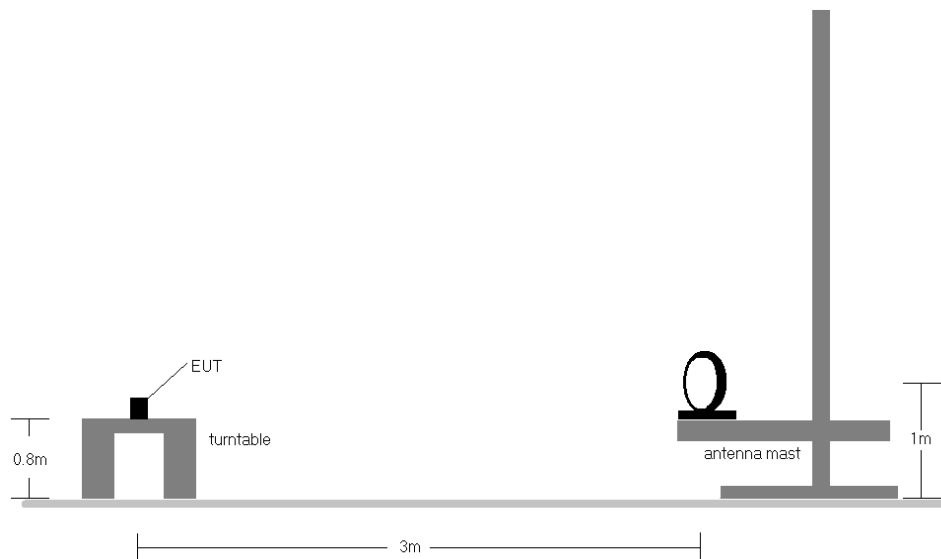


Figure 7-6. Radiated Test Setup < 30MHz

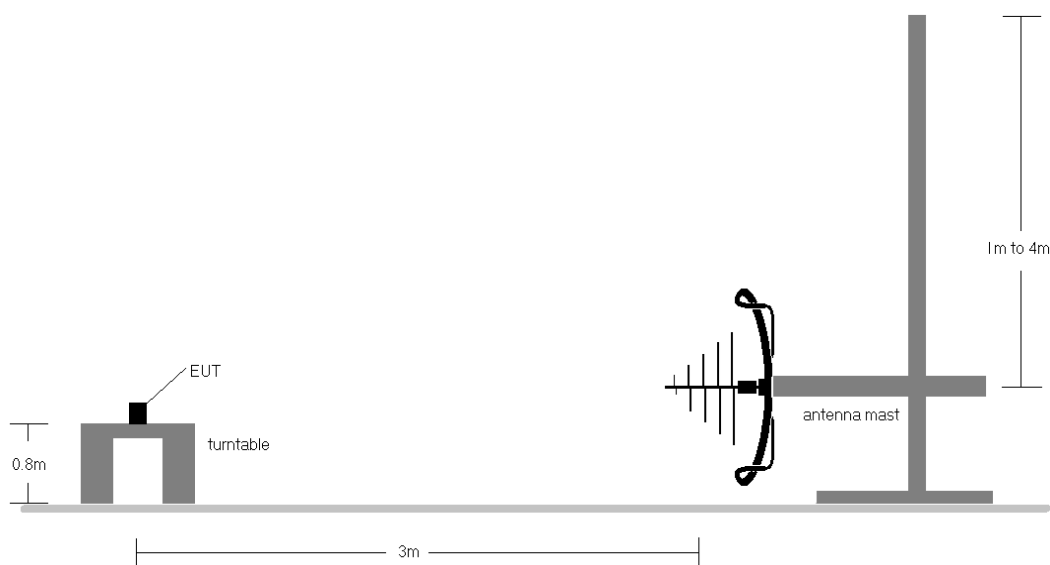


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-69.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
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 wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

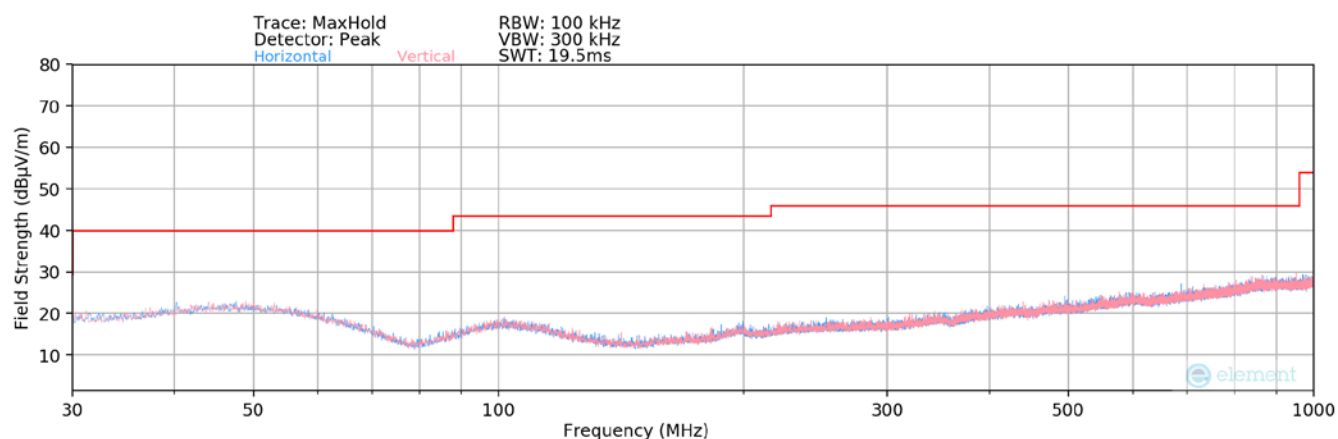
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MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-493. Radiated Spurious Plot below MIMO (802.11a – 2C Ch. 120)

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