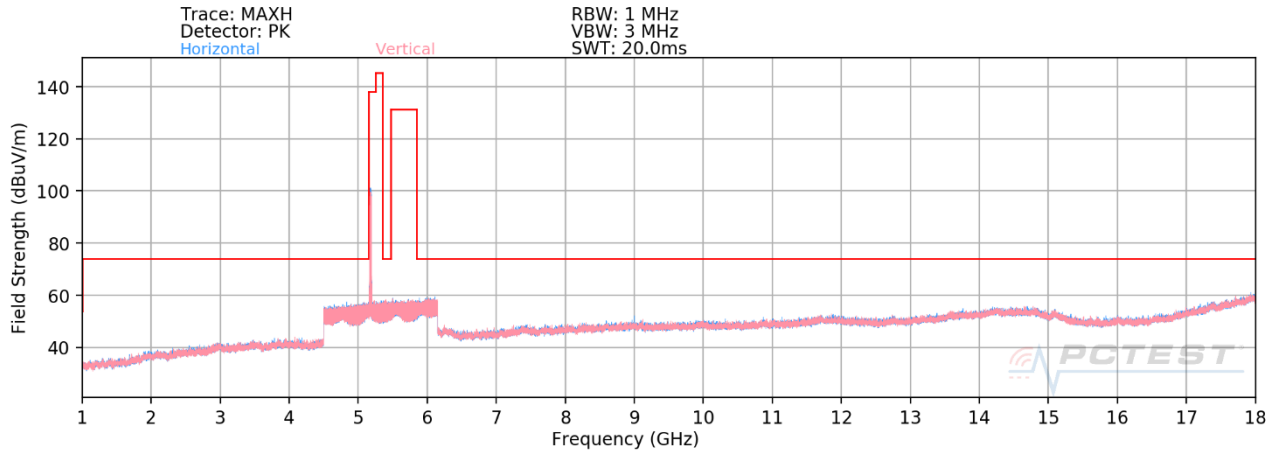
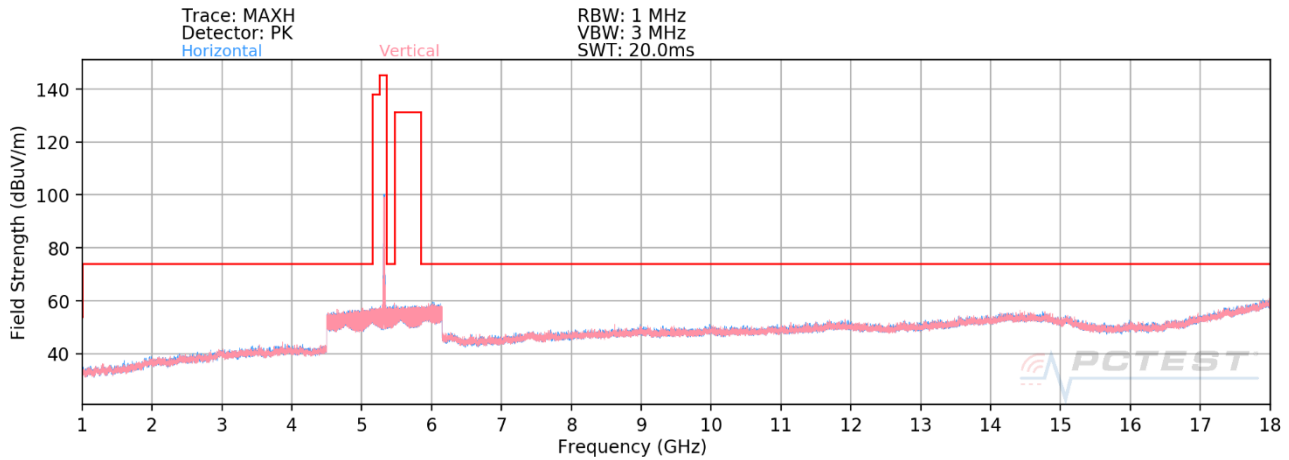


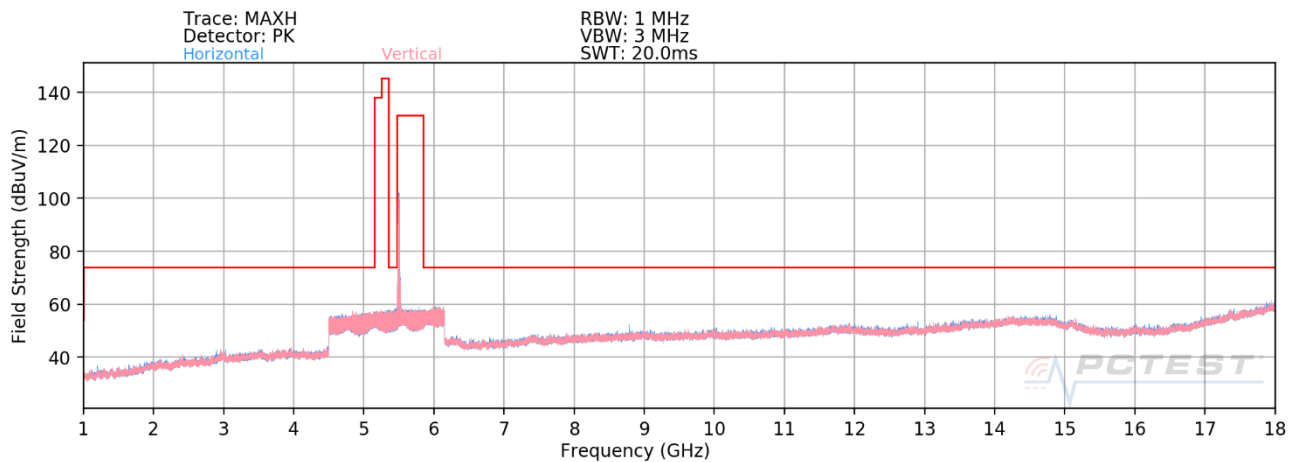
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-331. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 36) – OPEN

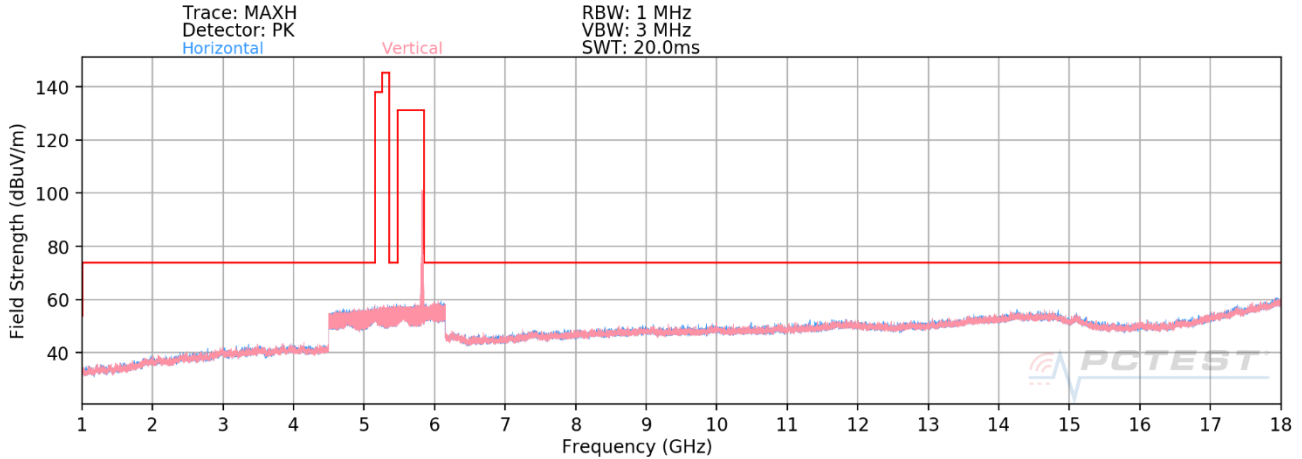


Plot 7-332. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 64) – OPEN

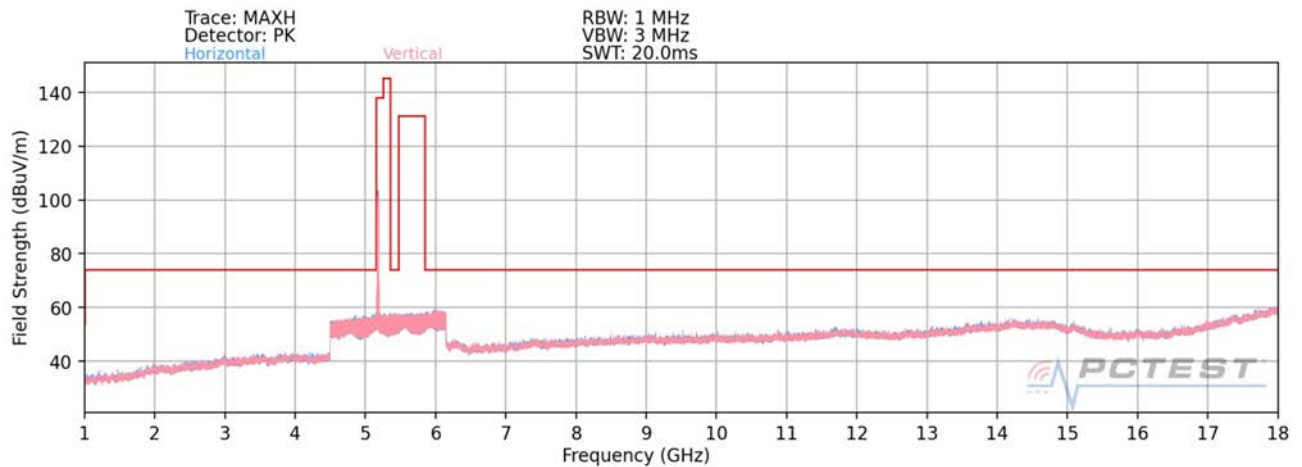


Plot 7-333. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120) – OPEN

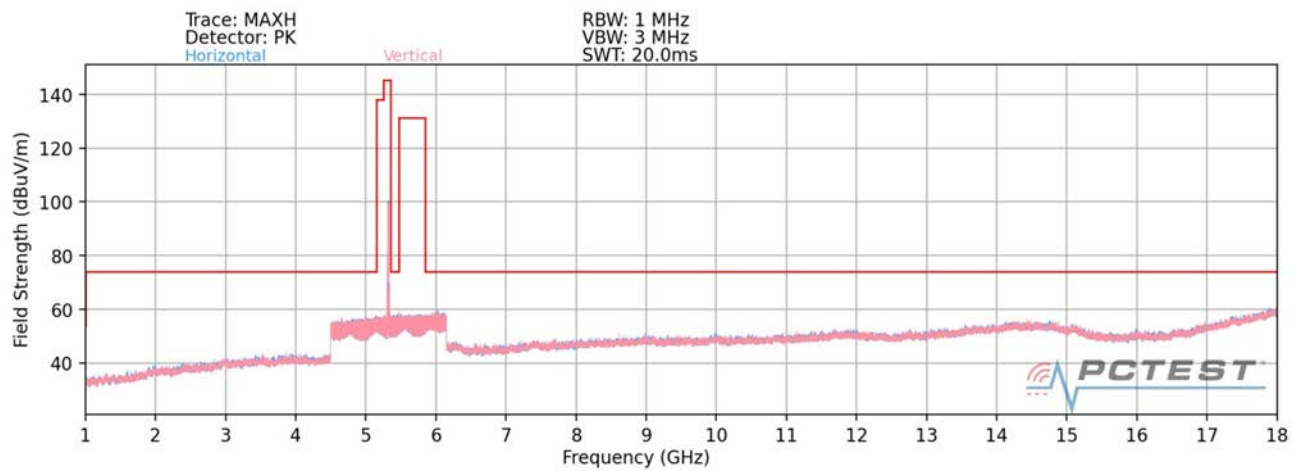
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 202 of 262



Plot 7-334. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 165) – OPEN

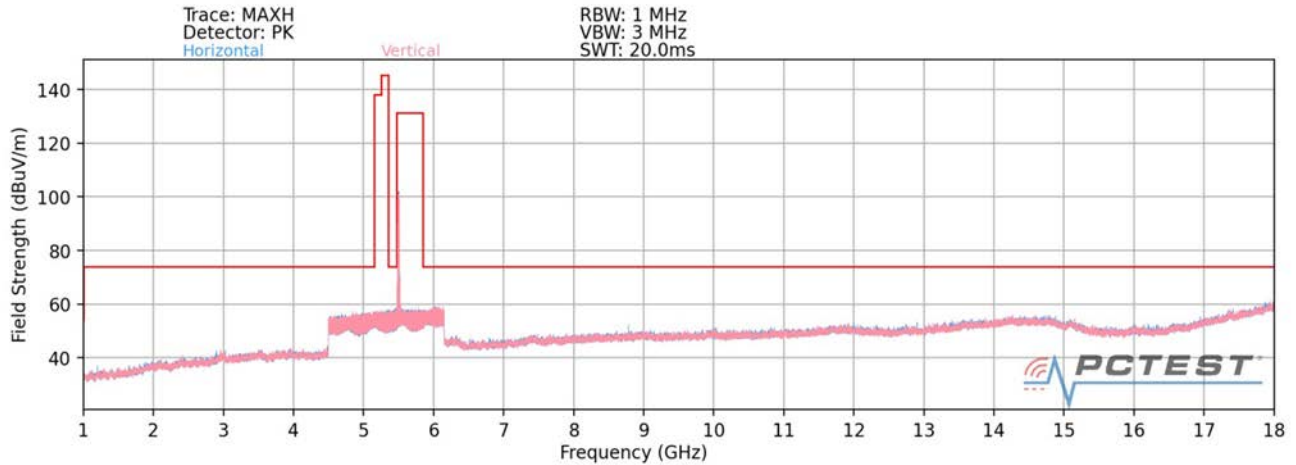


Plot 7-335. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 36) – CLOSED

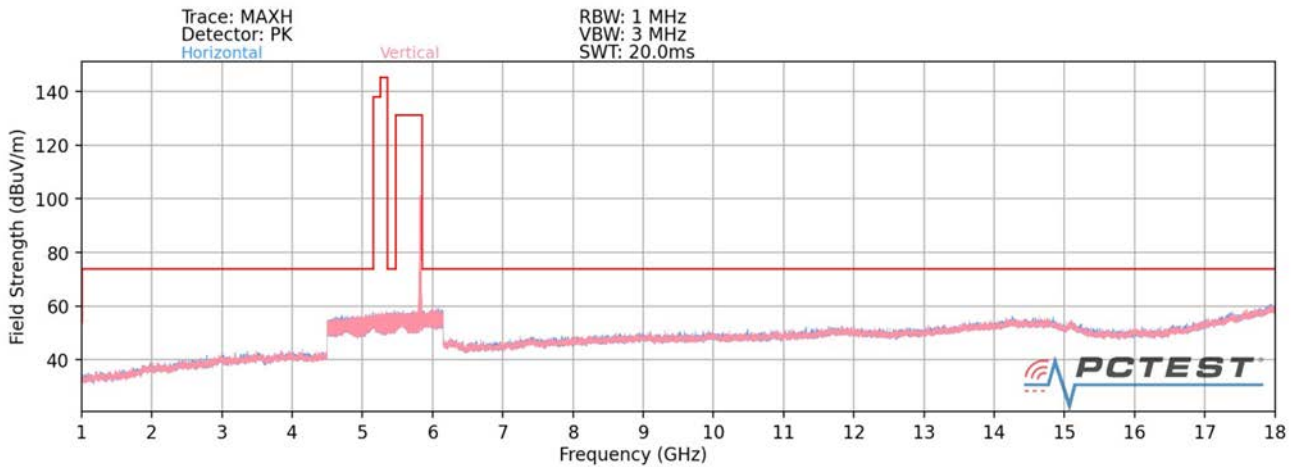


Plot 7-336. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 64) – CLOSED

FCC ID: A3LSMF711B1	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 203 of 262



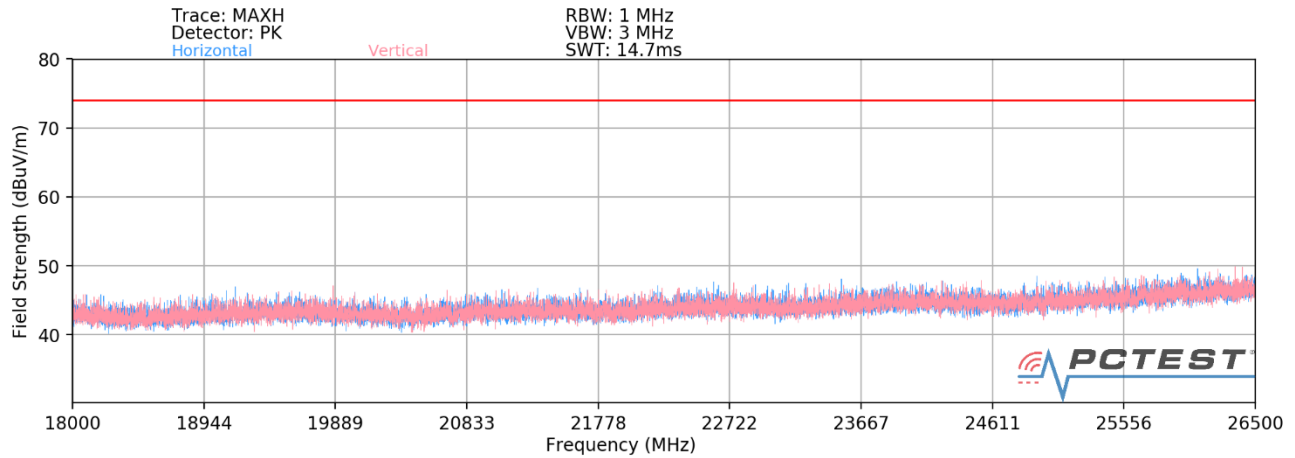
Plot 7-337. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 100) – CLOSED



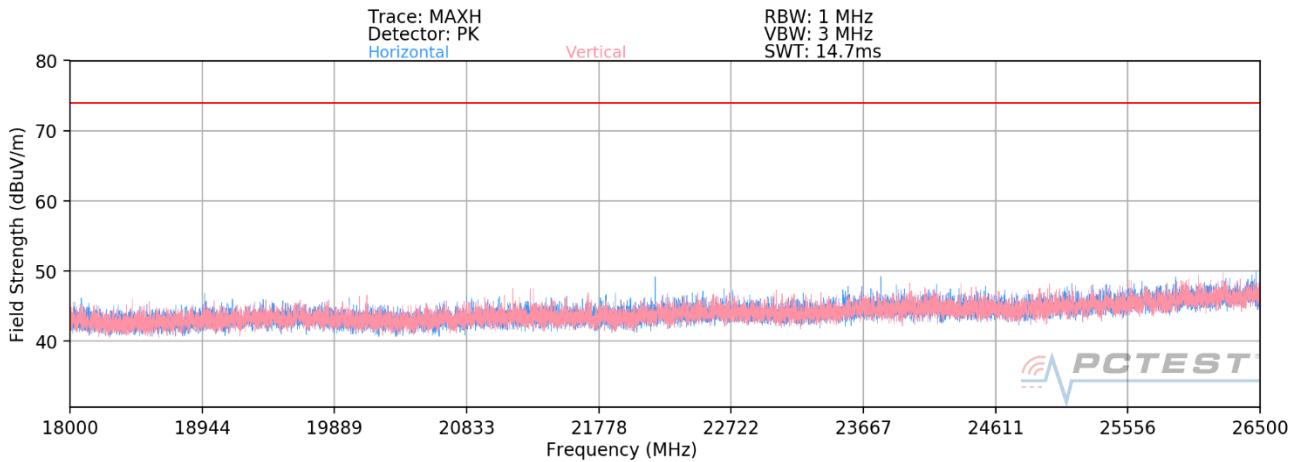
Plot 7-338. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 165) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 204 of 262	

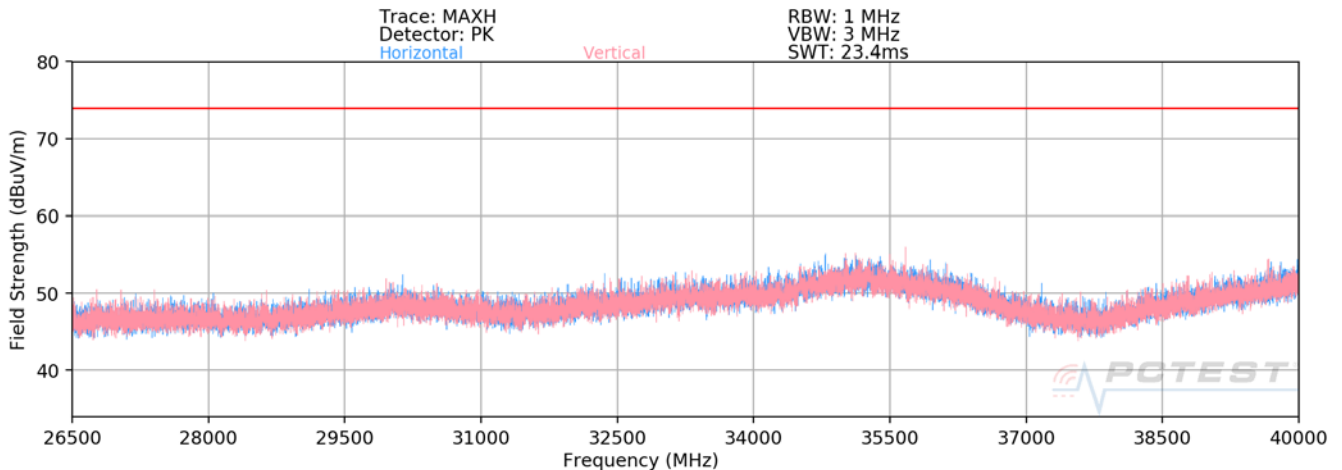
SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-339. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a) – OPEN

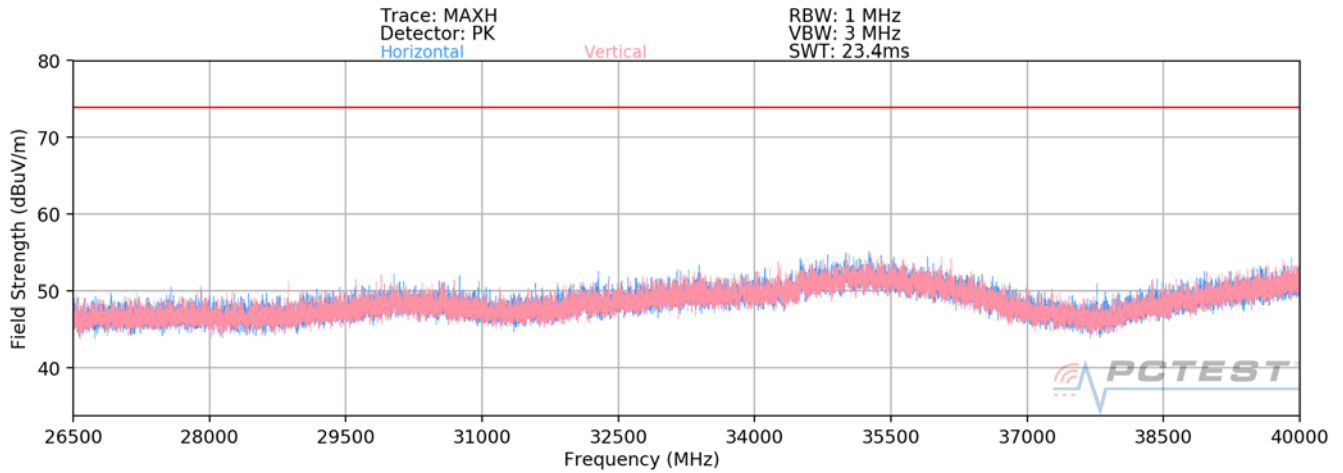


Plot 7-340. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a) – CLOSED



Plot 7-341. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) – OPEN

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 205 of 262



Plot 7-342. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) – CLOSED

FCC ID: A3LSMF711B1	 Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 206 of 262	

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-63.81	12.12	55.31	68.20	-12.89
15540.00	Average	H	-	-	-81.75	13.39	38.64	53.98	-15.34
15540.00	Peak	H	-	-	-69.76	13.39	50.63	73.98	-23.35
20720.00	Average	H	-	-	-66.33	-5.06	26.07	53.98	-27.91
20720.00	Peak	H	-	-	-56.36	-5.06	36.04	73.98	-37.94
25900.00	Peak	H	-	-	-55.32	-2.62	39.51	68.20	-28.69

Table 7-23. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-64.19	11.58	54.39	68.20	-13.81
* 15600.00	Average	H	-	-	-81.87	14.08	39.21	53.98	-14.77
* 15600.00	Peak	H	-	-	-70.19	14.08	50.89	73.98	-23.09
* 20800.00	Average	H	-	-	-65.66	-4.66	27.14	53.98	-26.84
* 20800.00	Peak	H	-	-	-55.16	-4.66	37.64	73.98	-36.34
26000.00	Peak	H	-	-	-55.29	-2.44	39.73	68.20	-28.47

Table 7-24. Radiated Measurements SISO ANT1 (CLOSED)

FCC ID: A3LSMF711B1	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 207 of 262

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]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-64.11	12.38	55.27	68.20	-12.93
* 15720.00	Average	H	-	-	-81.68	13.91	39.23	53.98	-14.75
* 15720.00	Peak	H	-	-	-69.13	13.91	51.78	73.98	-22.20
* 20960.00	Average	H	-	-	-66.71	-4.53	26.21	53.98	-27.77
* 20960.00	Peak	H	-	-	-56.17	-4.53	36.75	73.98	-37.23
26200.00	Peak	H	-	-	-54.98	-2.55	39.92	68.20	-28.28

Table 7-25. 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]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	H	-	-	-64.32	12.34	55.02	68.20	-13.18
* 15780.00	Average	H	-	-	-81.62	13.58	38.96	53.98	-15.02
* 15780.00	Peak	H	-	-	-69.95	13.58	50.63	73.98	-23.35
* 21040.00	Average	H	-	-	-66.26	-4.65	26.54	53.98	-27.44
* 21040.00	Peak	H	-	-	-56.53	-4.65	36.27	73.98	-37.71
26300.00	Peak	H	-	-	-54.95	-2.48	40.03	68.20	-28.17

Table 7-26. Radiated Measurements SISO ANT1 (CLOSED)

FCC ID: A3LSMF711B1	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 208 of 262	

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	H	-	-	-66.06	12.03	52.97	68.20	-15.23
* 15840.00	Average	H	-	-	-81.71	13.60	38.89	53.98	-15.09
* 15840.00	Peak	H	-	-	-69.73	13.60	50.87	73.98	-23.11
* 21120.00	Average	H	-	-	-66.58	-4.46	26.42	53.98	-27.56
* 21120.00	Peak	H	-	-	-55.77	-4.46	37.23	73.98	-36.75
26400.00	Peak	H	-	-	-55.21	-2.11	40.14	68.20	-28.06

Table 7-27. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-78.68	12.39	40.71	53.98	-13.27
* 10640.00	Peak	H	-	-	-65.44	12.39	53.95	73.98	-20.03
* 15960.00	Average	H	-	-	-78.60	14.52	42.92	53.98	-11.06
* 15960.00	Peak	H	-	-	-65.61	14.52	55.91	73.98	-18.07
* 21280.00	Average	H	-	-	-66.45	-4.40	26.60	53.98	-27.38
* 21280.00	Peak	H	-	-	-56.00	-4.40	37.05	73.98	-36.93
26600.00	Peak	H	-	-	-55.88	-2.33	39.25	68.20	-28.95

Table 7-28. Radiated Measurements SISO ANT1 (CLOSED)

FCC ID: A3LSMF711B1	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 209 of 262	

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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-78.65	12.79	41.14	53.98	-12.83
* 11000.00	Peak	H	-	-	-66.24	12.79	53.55	73.98	-20.42
16500.00	Peak	H	-	-	-69.85	15.02	52.17	68.20	-16.03
22000.00	Peak	H	-	-	-55.49	-4.38	37.58	68.20	-30.62
27500.00	Peak	H	-	-	-55.13	-1.85	40.48	68.20	-27.72

Table 7-29. 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	H	-	-	-79.44	12.86	0.00	40.42	53.98	-13.56
11200.00	Peak	H	-	-	-67.30	12.86	0.00	52.56	73.98	-21.42
16800.00	Peak	H	-	-	-70.33	15.52	0.00	52.19	68.20	-16.01
22400.00	Average	H	-	-	-66.34	-4.09	-9.54	27.02	53.98	-26.96
22400.00	Peak	H	-	-	-55.31	-4.09	-9.54	38.05	73.98	-35.93
28000.00	Peak	H	-	-	-55.38	-1.57	-9.54	40.51	68.20	-27.69

Table 7-30. Radiated Measurements SISO ANT1 (CLOSED)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 210 of 262

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	-	-	-79.39	13.08	0.00	40.69	53.98	-13.29
11440.00	Peak	H	-	-	-67.38	13.08	0.00	52.70	73.98	-21.28
17160.00	Peak	H	-	-	-69.20	17.81	0.00	55.61	68.20	-12.59
22880.00	Average	H	-	-	-65.93	-4.11	-9.54	27.41	53.98	-26.57
22880.00	Peak	H	-	-	-55.42	-4.11	-9.54	37.92	73.98	-36.06
28600.00	Peak	H	-	-	-56.53	-1.25	-9.54	39.68	68.20	-28.52

Table 7-31. 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-79.66	13.64	40.98	53.98	-13.00
* 11490.00	Peak	H	-	-	-67.67	13.64	52.97	73.98	-21.01
17235.00	Peak	H	-	-	-69.49	17.96	55.47	68.20	-12.73
* 22980.00	Average	H	-	-	-66.15	-4.25	27.06	53.98	-26.92
* 22980.00	Peak	H	-	-	-54.83	-4.25	38.38	73.98	-35.60
28725.00	Peak	H	-	-	-55.92	-1.30	40.24	68.20	-27.96

Table 7-32. Radiated Measurements SISO ANT1 (CLOSED)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 211 of 262	

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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-79.86	13.36	40.50	53.98	-13.48
* 11570.00	Peak	H	-	-	-67.41	13.36	52.95	73.98	-21.03
17355.00	Peak	H	-	-	-69.36	20.01	57.65	68.20	-10.55
23140.00	Peak	H	-	-	-54.65	-4.20	38.60	68.20	-29.60
28925.00	Peak	H	-	-	-55.73	-1.06	40.66	68.20	-27.54

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: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-79.86	14.11	41.25	53.98	-12.73
* 11650.00	Peak	H	-	-	-67.37	14.11	53.74	73.98	-20.24
17475.00	Peak	H	-	-	-69.34	18.91	56.57	68.20	-11.63
23300.00	Peak	H	-	-	-56.19	-4.25	37.01	68.20	-31.19
29125.00	Peak	H	-	-	-56.19	-1.05	40.22	68.20	-27.98

Table 7-34. Radiated Measurements SISO ANT1 (CLOSED)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 212 of 262	

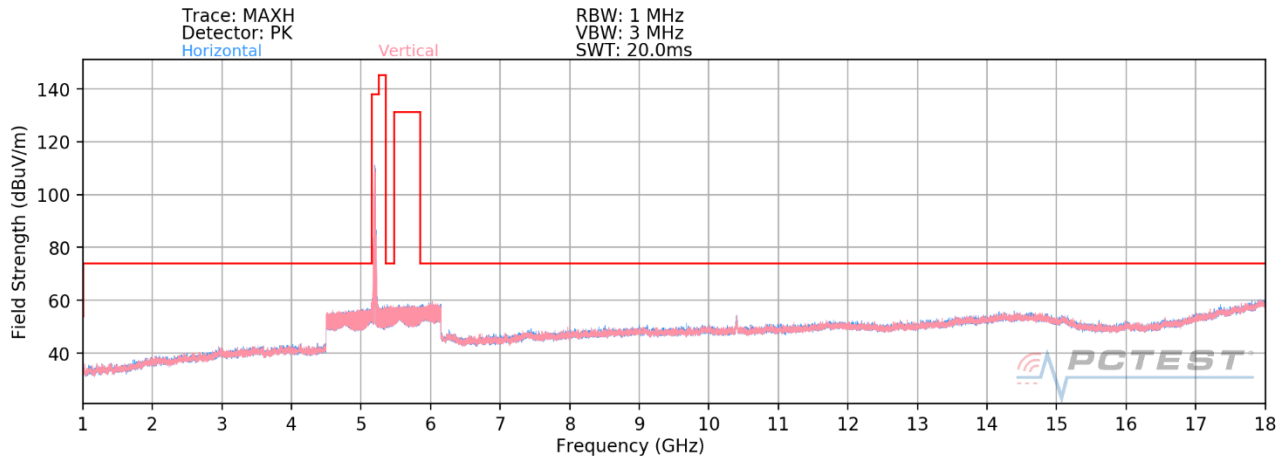
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10640.00	Average	H	-	-	-86.54	20.77	41.23	53.98	-12.75
10640.00	Peak	H	-	-	-74.37	20.77	53.40	73.98	-20.58
15960.00	Average	H	-	-	-89.03	29.34	47.31	53.98	-6.67
15960.00	Peak	H	-	-	-77.92	29.34	58.42	73.98	-15.56
21280.00	Average	H	-	-	-67.01	-4.40	26.04	53.98	-27.94
21280.00	Peak	H	-	-	-55.97	-4.40	37.08	73.98	-36.90
26600.00	Peak	H	-	-	-54.93	-2.33	40.20	68.20	-28.00

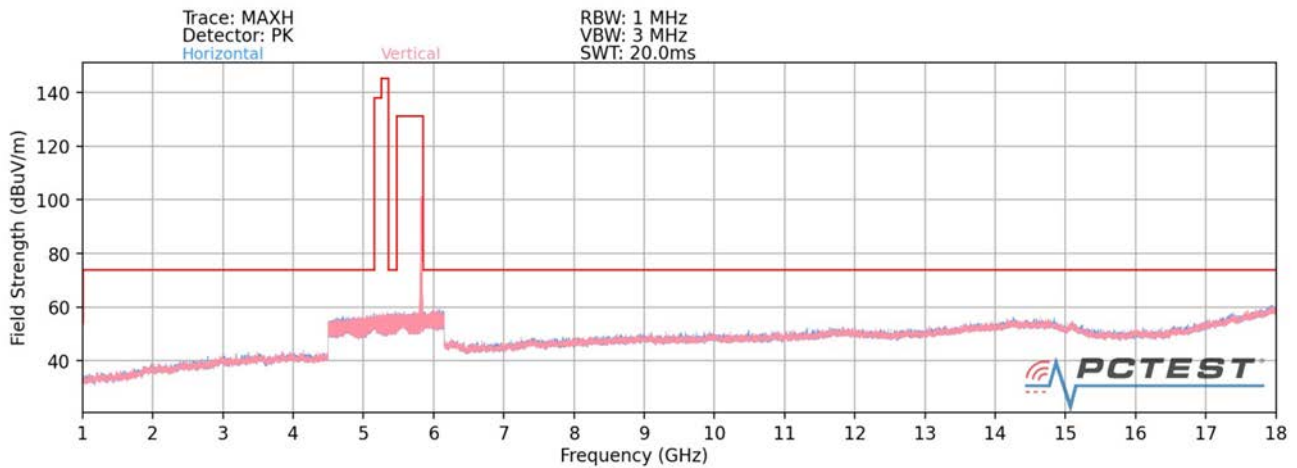
Table 7-35. Radiated Measurements SISO ANT1 with WCP

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 213 of 262	

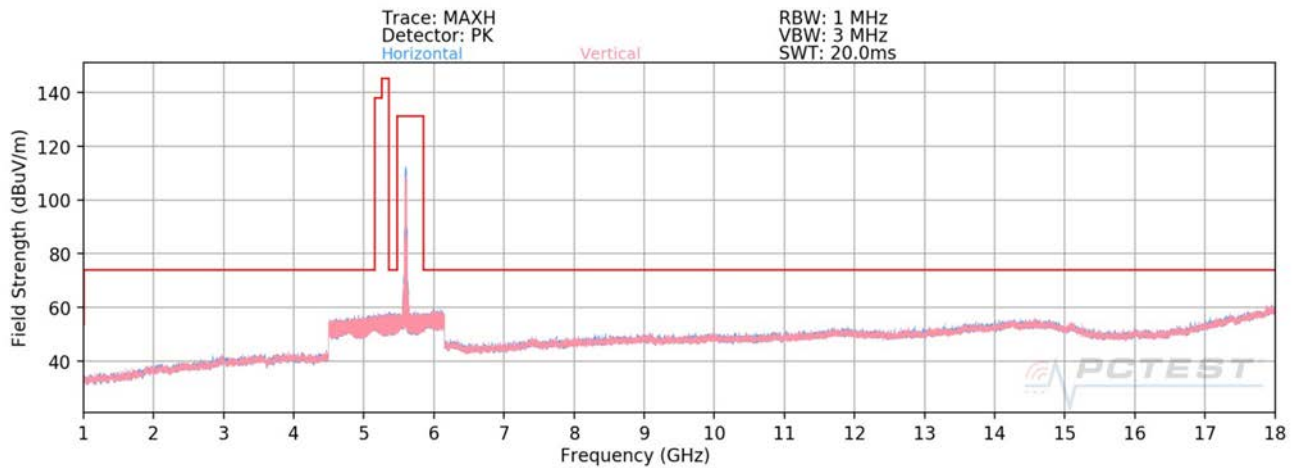
7.6.2 MIMO Radiated Spurious Emission Measurements



Plot 7-343. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 36) – OPEN

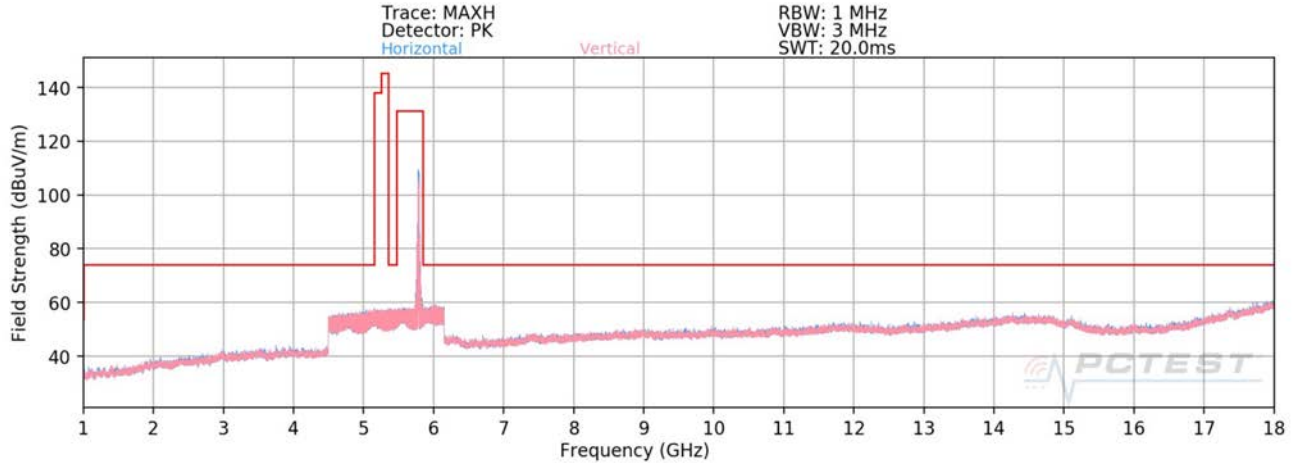


Plot 7-344. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 64) – OPEN

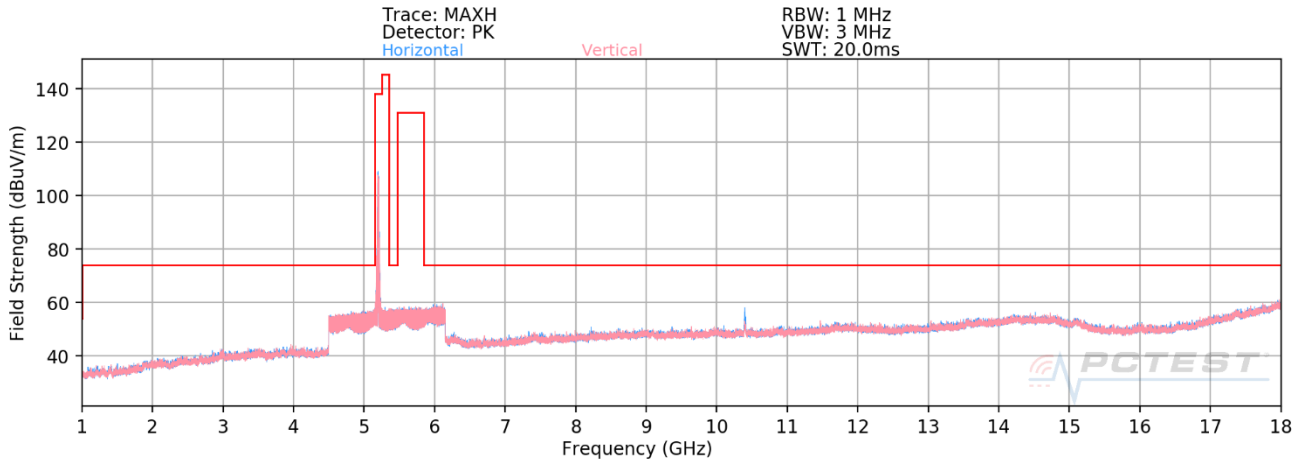


Plot 7-345. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 100) – OPEN

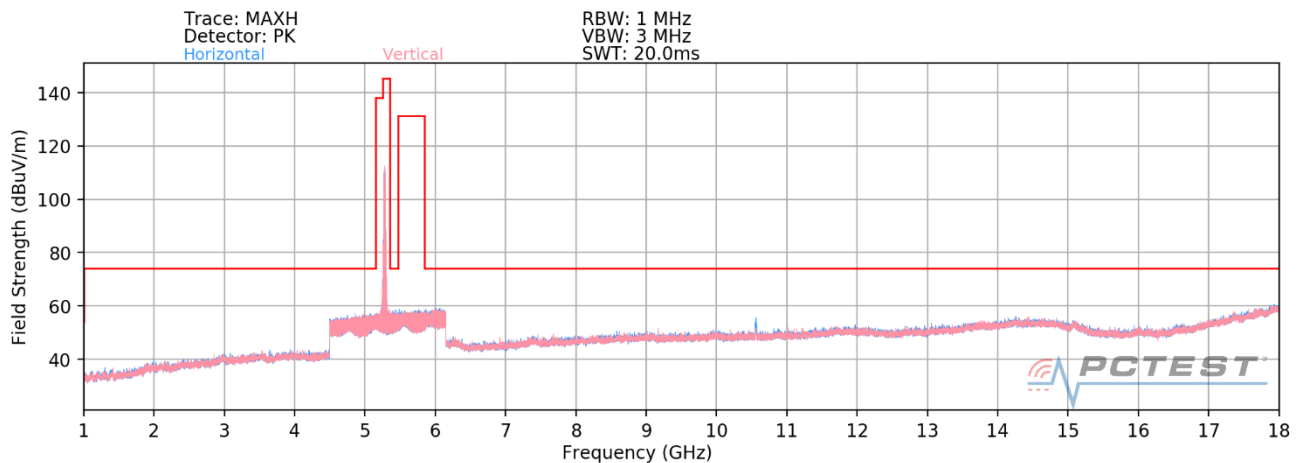
FCC ID: A3LSMF711B1	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 214 of 262



Plot 7-346. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 165) – OPEN

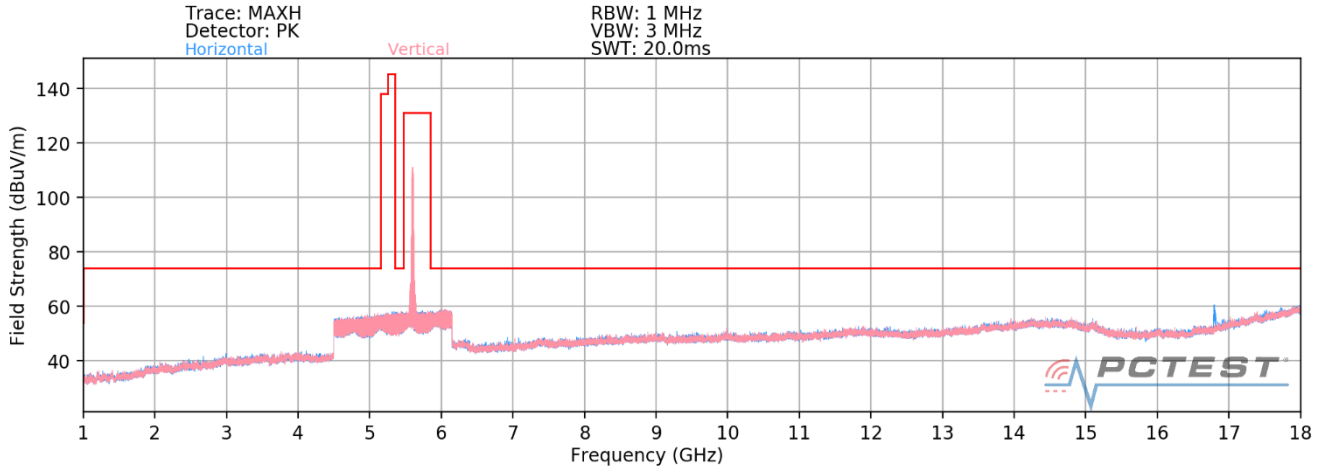


Plot 7-347. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 36) – CLOSED

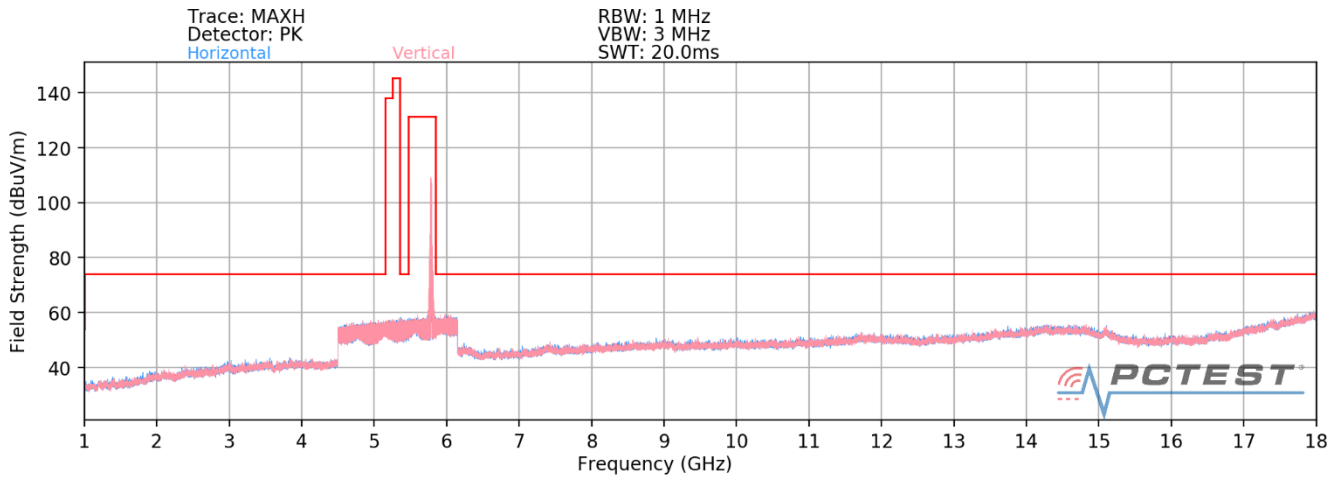


Plot 7-348. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 64) – CLOSED

FCC ID: A3LSMF711B1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 215 of 262



Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 100) – CLOSED



Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 165) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 216 of 262	

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	199	71	-58.69	12.12	60.43	68.20	-7.77
15540.00	Average	H	172	346	-74.55	13.39	45.84	53.98	-8.14
15540.00	Peak	H	172	346	-66.05	13.39	54.34	73.98	-19.64
20720.00	Average	H	-	-	-65.99	4.48	35.95	53.98	-18.03
20720.00	Peak	H	-	-	-54.42	4.48	47.52	73.98	-26.46
25900.00	Peak	H	-	-	-55.73	6.92	48.64	68.20	-19.56

Table 7-36. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	193	70	-58.40	11.58	60.18	68.20	-8.02
15600.00	Average	H	254	347	-72.09	14.08	48.99	53.98	-4.99
15600.00	Peak	H	254	347	-64.90	14.08	56.18	73.98	-17.80
20800.00	Average	H	-	-	-66.04	4.88	36.30	53.98	-17.68
20800.00	Peak	H	-	-	-55.50	4.88	46.84	73.98	-27.14
26000.00	Peak	H	-	-	-55.71	7.10	48.85	68.20	-19.35

Table 7-37. Radiated Measurements MIMO (OPEN)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 217 of 262

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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	195	70	-59.31	12.38	60.07	68.20	-8.13
15720.00	Average	H	-78	345	-70.60	13.91	50.31	53.98	-3.67
15720.00	Peak	H	-78	345	-62.04	13.91	58.87	73.98	-15.11
20960.00	Average	H	-	-	-66.68	5.01	35.78	53.98	-18.20
20960.00	Peak	H	-	-	-56.44	5.01	46.02	73.98	-27.96
26200.00	Peak	H	-	-	-54.50	6.99	49.94	68.20	-18.26

Table 7-38. 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-64.32	12.34	55.02	68.20	-13.18
15780.00	Average	H	-	-	-81.62	13.58	38.96	53.98	-15.02
15780.00	Peak	H	-	-	-69.95	13.58	50.63	73.98	-23.35
21040.00	Average	H	-	-	-66.26	-4.65	26.54	53.98	-27.44
21040.00	Peak	H	-	-	-56.53	-4.65	36.27	73.98	-37.71
26300.00	Peak	H	-	-	-54.95	-2.48	40.03	68.20	-28.17

Table 7-39. Radiated Measurements MIMO (OPEN)

FCC ID: A3LSMF711B1	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 218 of 262	

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	-	-	-66.06	12.03	0.00	52.97	68.20	-15.23
15840.00	Average	H	-	-	-81.71	13.60	0.00	38.89	53.98	-15.09
15840.00	Peak	H	-	-	-69.73	13.60	0.00	50.87	73.98	-23.11
21120.00	Average	H	-	-	-66.58	-4.46	-9.54	26.42	53.98	-27.56
21120.00	Peak	H	-	-	-55.77	-4.46	-9.54	37.23	73.98	-36.75
26400.00	Peak	H	-	-	-55.21	-2.11	-9.54	40.14	68.20	-28.06

Table 7-40. 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10640.00	Average	H	-	-	-78.68	12.39	40.71	53.98	-13.27
10640.00	Peak	H	-	-	-65.44	12.39	53.95	73.98	-20.03
15960.00	Average	H	-	-	-78.60	14.52	42.92	53.98	-11.06
15960.00	Peak	H	-	-	-65.61	14.52	55.91	73.98	-18.07
21280.00	Average	H	-	-	-66.45	-4.40	26.60	53.98	-27.38
21280.00	Peak	H	-	-	-56.00	-4.40	37.05	73.98	-36.93
26600.00	Peak	H	-	-	-55.88	-2.33	39.25	68.20	-28.95

Table 7-41. Radiated Measurements MIMO (OPEN)

Worst Case Mode: 802.11a

FCC ID: A3LSMF711B1	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 219 of 262	

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	H	-	-	-78.65	12.79	41.14	53.98	-12.83
11000.00	Peak	H	-	-	-66.24	12.79	53.55	73.98	-20.42
16500.00	Peak	H	-	-	-69.85	15.02	52.17	68.20	-16.03
22000.00	Peak	H	-	-	-55.49	-4.38	37.58	68.20	-30.62
27500.00	Peak	H	-	-	-55.13	-1.85	40.48	68.20	-27.72

Table 7-42. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11200.00	Average	H	-	-	-81.40	16.82	42.42	53.98	-11.56
11200.00	Peak	H	-	-	-70.54	16.82	53.28	73.98	-20.70
16800.00	Peak	H	-	-	-70.81	24.42	60.61	68.20	-7.59
22400.00	Average	H	-	-	-66.86	5.45	36.04	53.98	-17.94
22400.00	Peak	H	-	-	-56.76	5.45	46.14	73.98	-27.83
28000.00	Peak	H	-	-	-56.17	7.99	49.28	68.20	-18.92

Table 7-43. Radiated Measurements MIMO (OPEN)

Worst Case Mode: 802.11a

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 220 of 262	

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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11440.00	Average	H	-	-	-82.09	17.95	42.86	53.98	-11.12
11440.00	Peak	H	-	-	-70.81	17.95	54.14	73.98	-19.84
17160.00	Peak	H	-	-	-71.94	24.77	59.83	68.20	-8.37
22880.00	Average	H	-	-	-66.67	5.43	36.22	53.98	-17.76
22880.00	Peak	H	-	-	-56.47	5.43	46.42	73.98	-27.56
28600.00	Peak	H	-	-	-56.60	8.29	49.15	68.20	-19.05

Table 7-44. 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	Average	H	150	336	-73.96	13.64	46.68	53.98	-7.30
11490.00	Peak	H	150	336	-69.08	13.64	51.56	73.98	-22.42
17235.00	Peak	H	173	352	-62.53	17.96	62.43	68.20	-5.77
22980.00	Average	H	-	-	-66.03	5.29	36.72	53.98	-17.26
22980.00	Peak	H	-	-	-55.54	5.29	47.21	73.98	-26.77
28725.00	Peak	H	-	-	-55.62	8.24	50.08	69.20	-19.12

Table 7-45. Radiated Measurements MIMO (OPEN)

Worst Case Mode: 802.11a

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 221 of 262	

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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	Average	H	168	333	-74.22	13.36	46.14	53.98	-7.84
11570.00	Peak	H	168	333	-67.95	13.36	52.41	73.98	-21.57
17355.00	Peak	H	168	351	-66.99	20.01	60.02	68.20	-8.18
23140.00	Peak	H	-	-	-55.46	5.34	47.33	68.20	-20.87
28925.00	Peak	H	-	-	-56.22	8.48	49.71	68.20	-18.49

Table 7-46. 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	Average	H	-	-	-78.03	14.11	43.08	53.98	-10.90
11650.00	Peak	H	-	-	-69.09	14.11	52.02	73.98	-21.96
17475.00	Peak	H	148	355	-68.84	18.91	57.07	68.20	-11.13
23300.00	Peak	H	-	-	-55.32	5.29	47.42	68.20	-20.78
29125.00	Peak	H	-	-	-56.10	8.49	49.85	68.20	-18.35

Table 7-47. Radiated Measurements MIMO (OPEN)

Worst Case Mode: 802.11a

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 222 of 262	

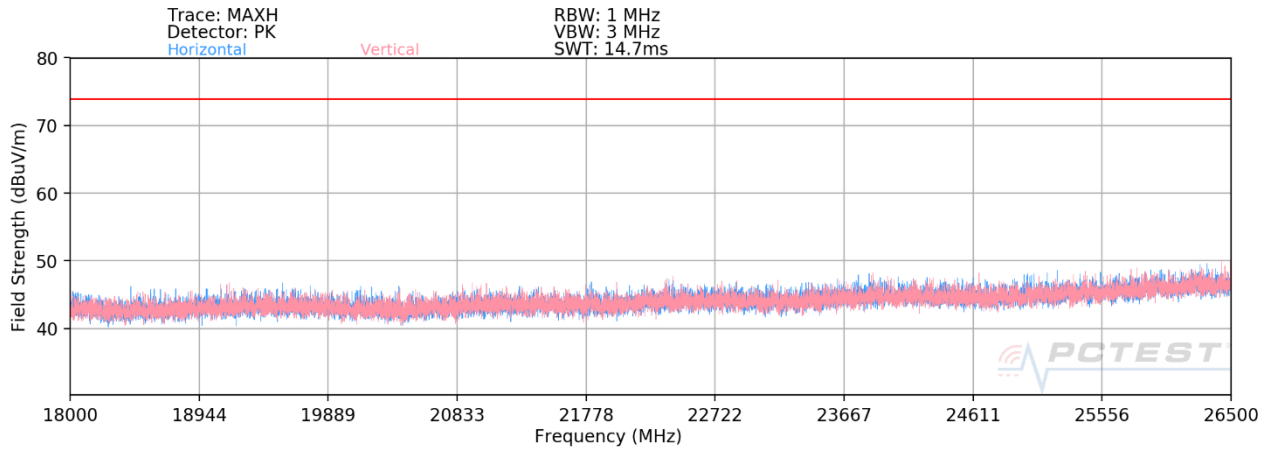
Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11650.00	Average	H	-	-	-77.44	14.11	43.67	53.98	-10.31
11650.00	Peak	H	-	-	-68.90	14.11	52.21	73.98	-21.77
17475.00	Peak	H	171	190	-67.45	18.91	58.46	68.20	-9.74
23300.00	Peak	H	-	-	-54.73	5.29	48.01	68.20	-20.19
29125.00	Peak	H	-	-	-55.16	8.49	50.79	68.20	-17.41

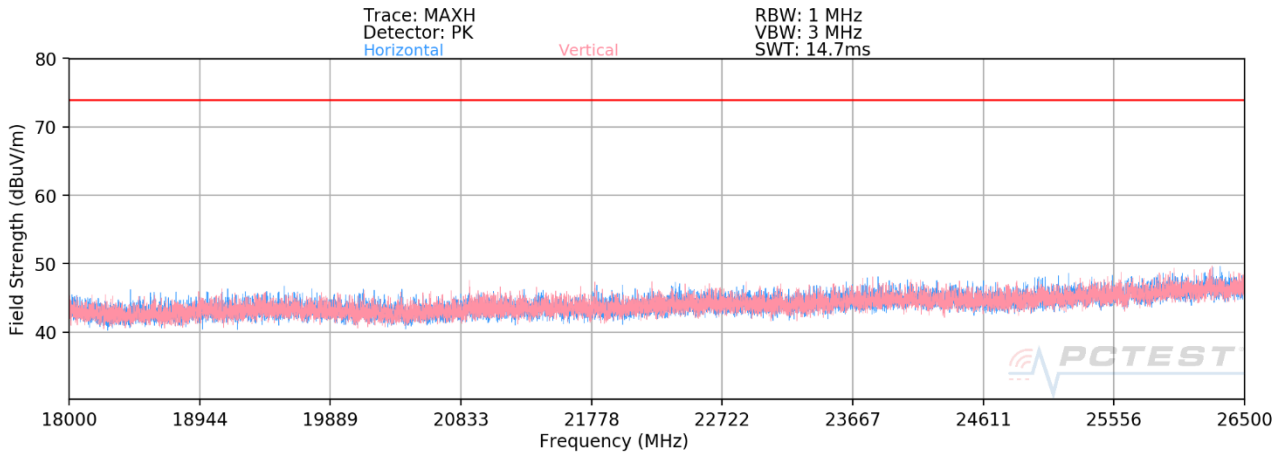
Table 7-48. Radiated Measurements MIMO with WCP

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 223 of 262

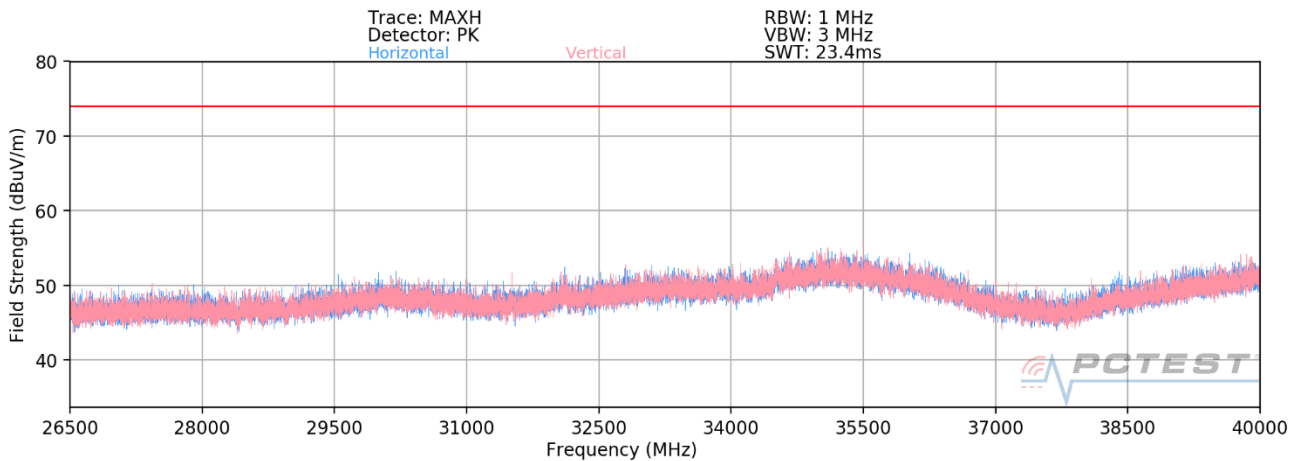
MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-351. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a) – OPEN

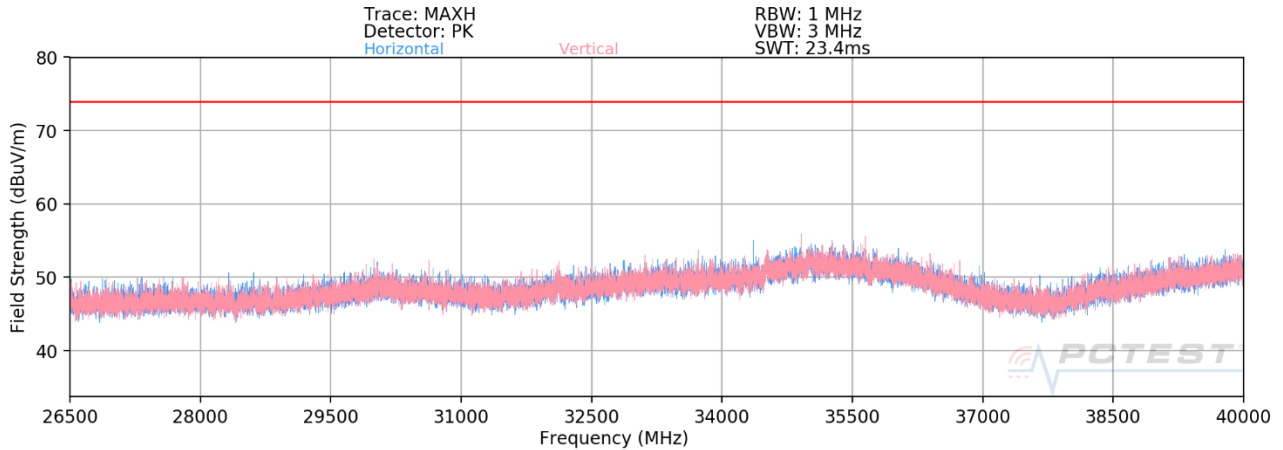


Plot 7-352. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a) – CLOSED



Plot 7-353. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a) – OPEN

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 224 of 262



Plot 7-354. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a) – CLOSED

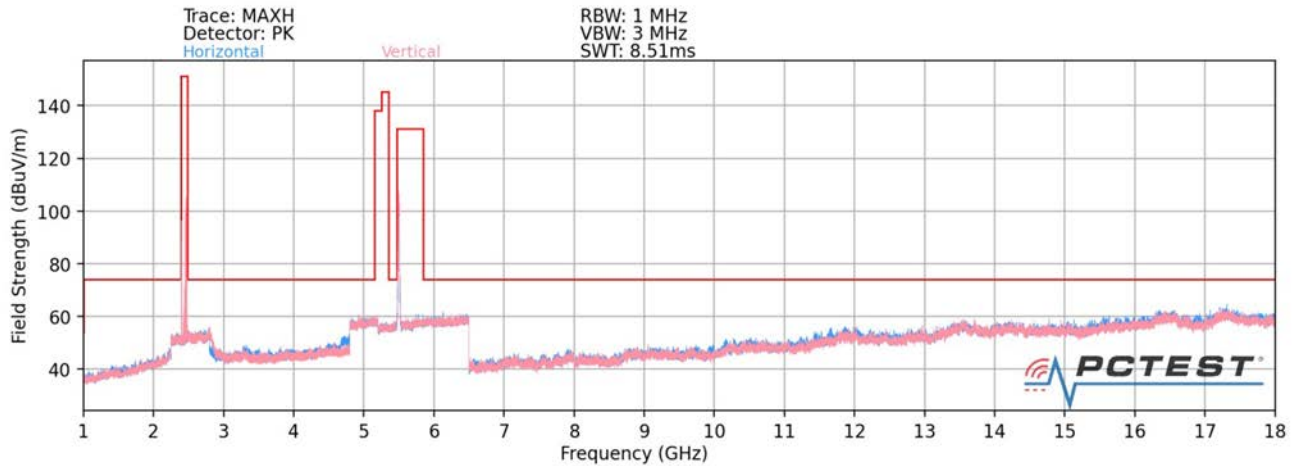
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 225 of 262	

7.6.3 Simultaneous Tx Radiated Spurious Emissions Measurements

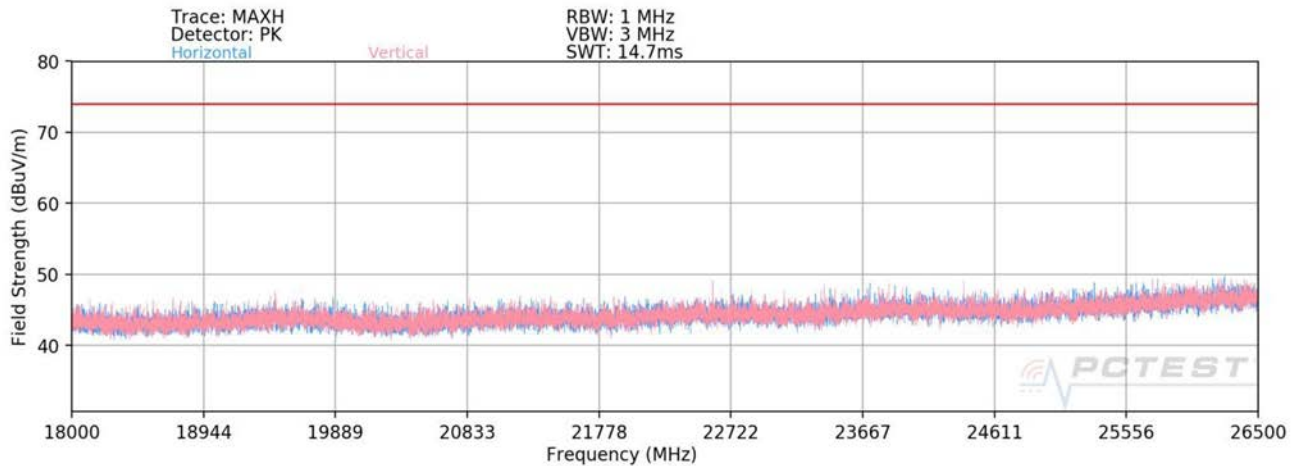
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	Bluetooth	2.4 GHz Emission	5 GHz Emission
Antenna	1	2	1, 2
Channel	0	11	100
Operating Frequency (MHz)	2402	2462	5500
Data Rate (Mbps)	1	1	6
Mode	GFSK	802.11b	802.11a

Table 7-49. Simultaneous Transmission Config-1

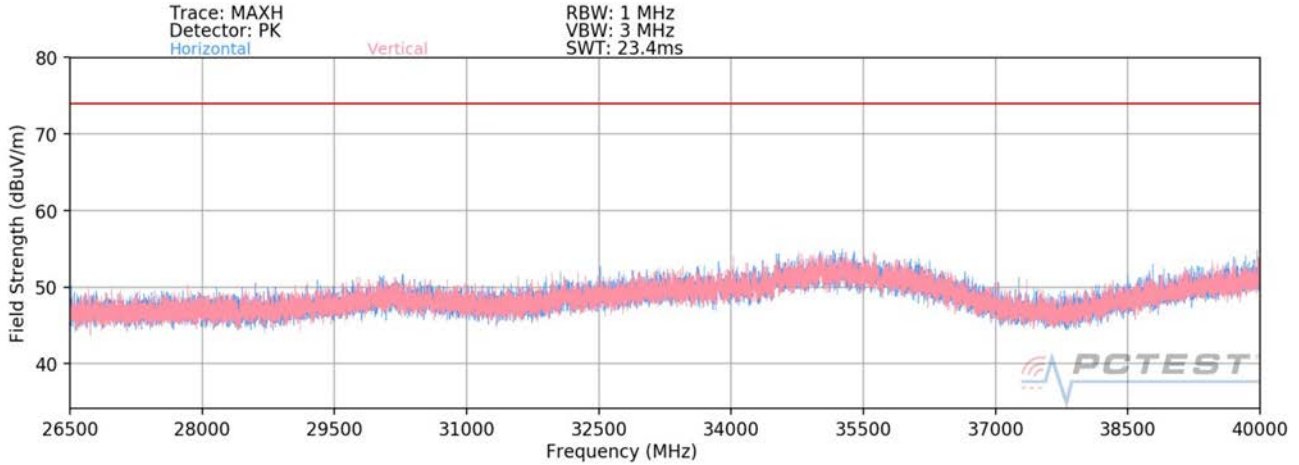


Plot 7-355. Radiated Spurious Plot above 1GHz (5GHz – 2.4GHz) - Open

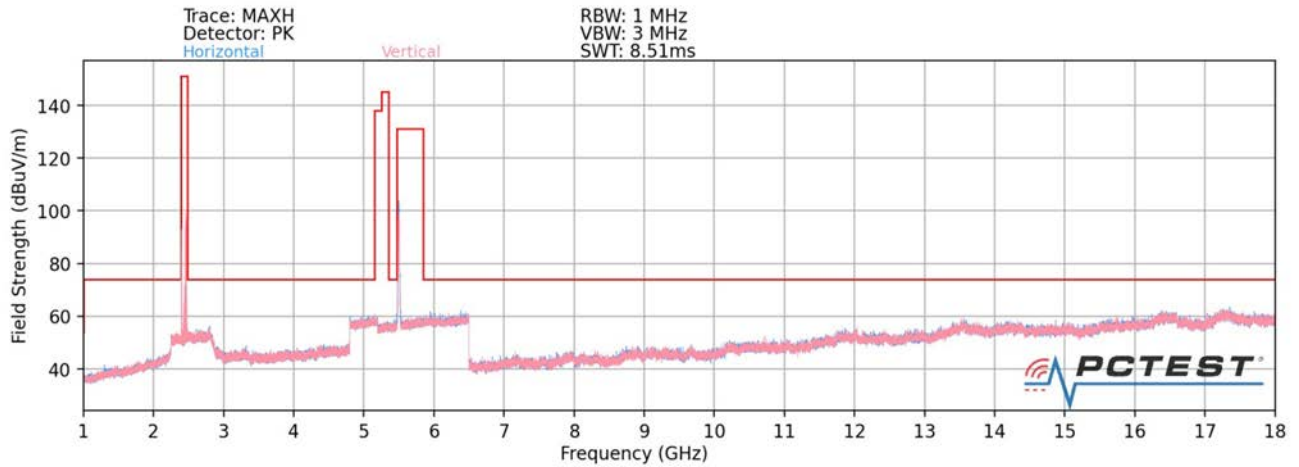


Plot 7-356. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4GHz) - Open

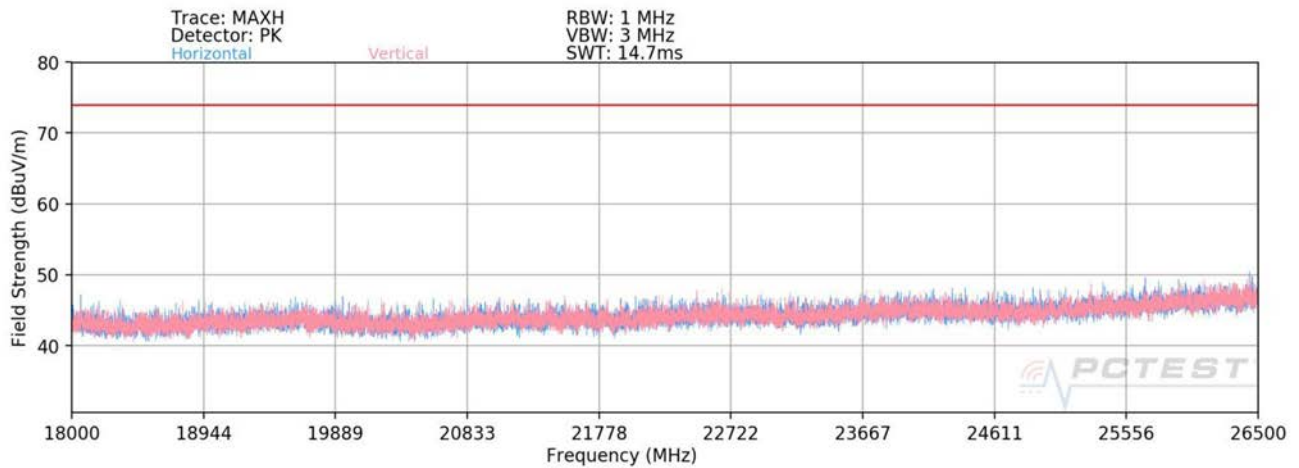
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 226 of 262



Plot 7-357. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4GHz) - Open

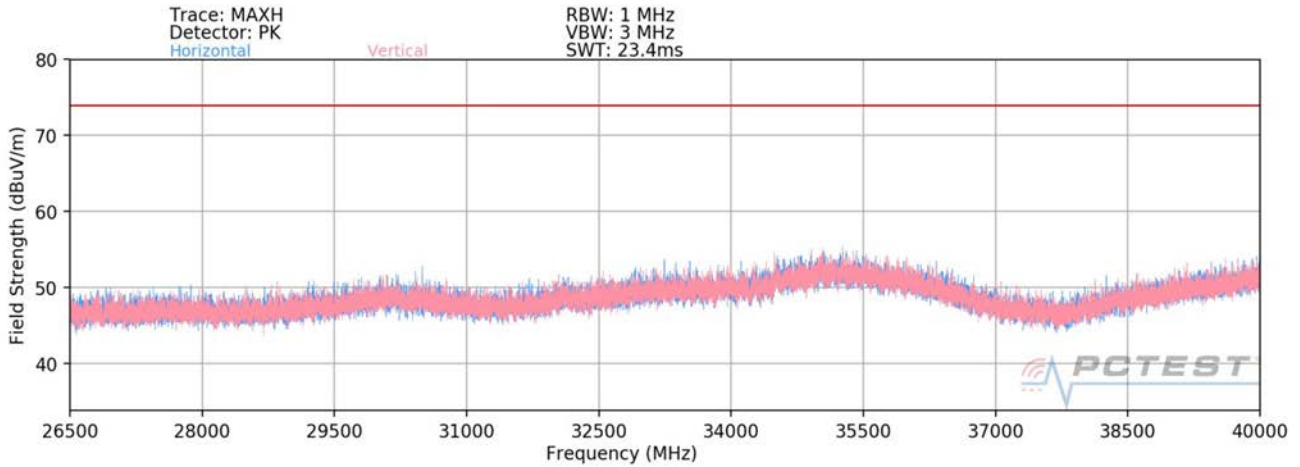


Plot 7-358. Radiated Spurious Plot above 1GHz (5GHz – 2.4GHz) – Closed



Plot 7-359. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4GHz) - Closed

FCC ID: A3LSMF711B1	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 227 of 262

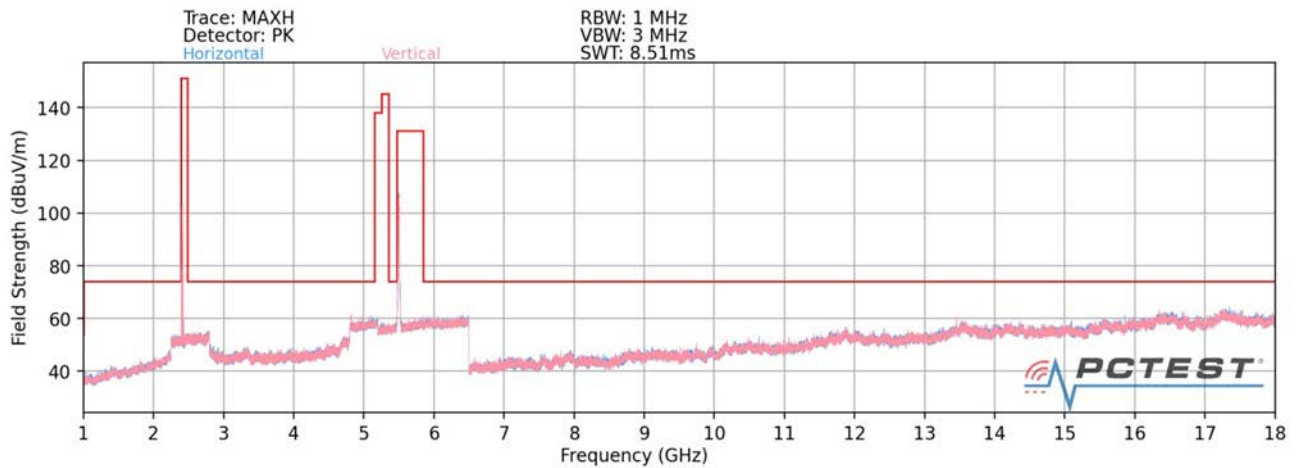


Plot 7-360. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4GHz) - Closed

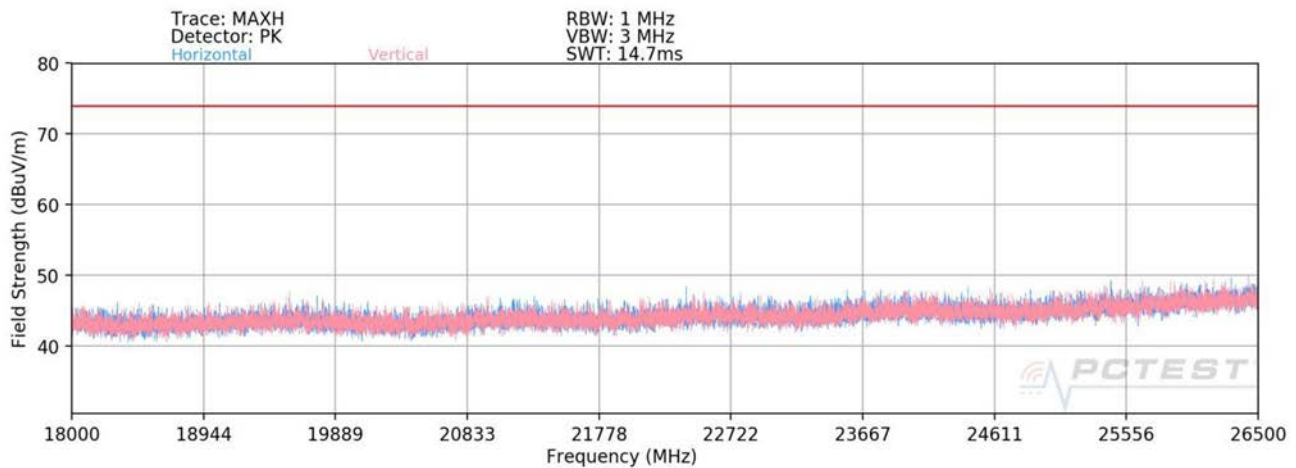
FCC ID: A3LSMF711B1	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 228 of 262	

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	11	100
Operating Frequency (MHz)	2462	5500
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-50. Dual Band Simultaneous Transmission

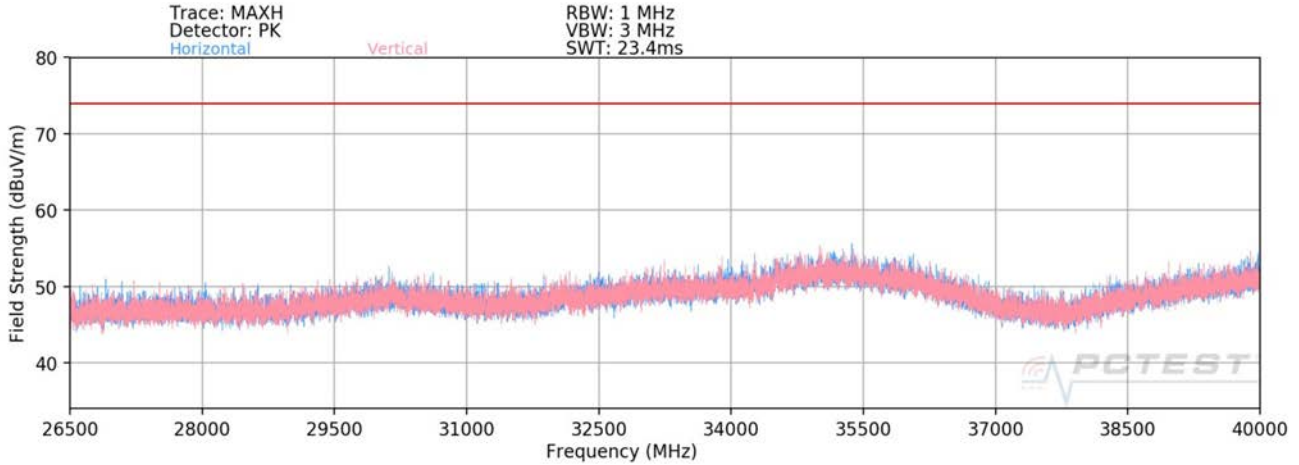


Plot 7-361. Radiated Spurious Plot above 1GHz (5GHz – 2.4GHz) - Open



Plot 7-362. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4GHz) - Open

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 229 of 262



Plot 7-363. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4GHz) – Open

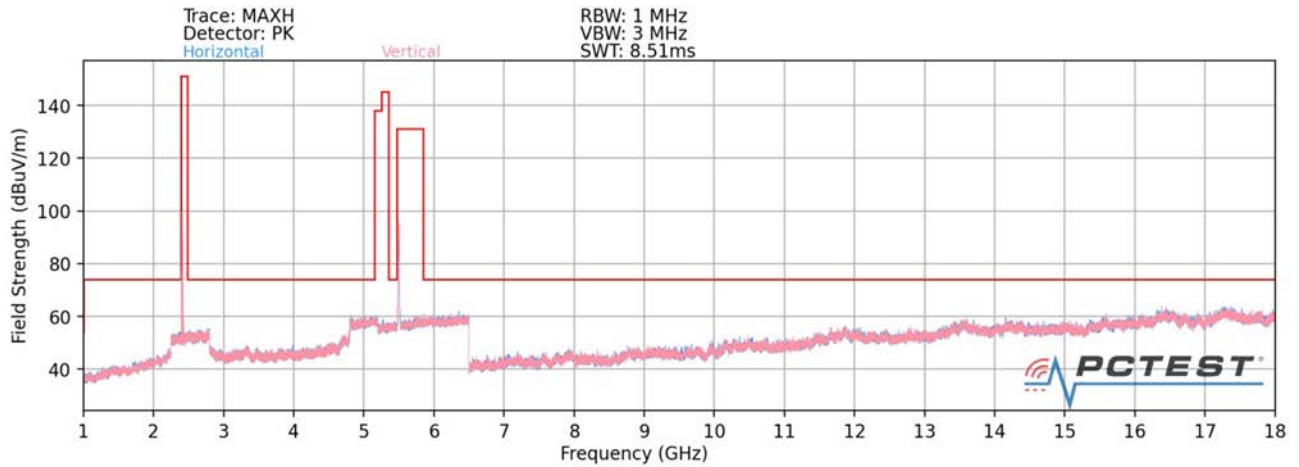


Table 7-51. Radiated Spurious Plot above 1GHz (5GHz – 2.4GHz) – Closed

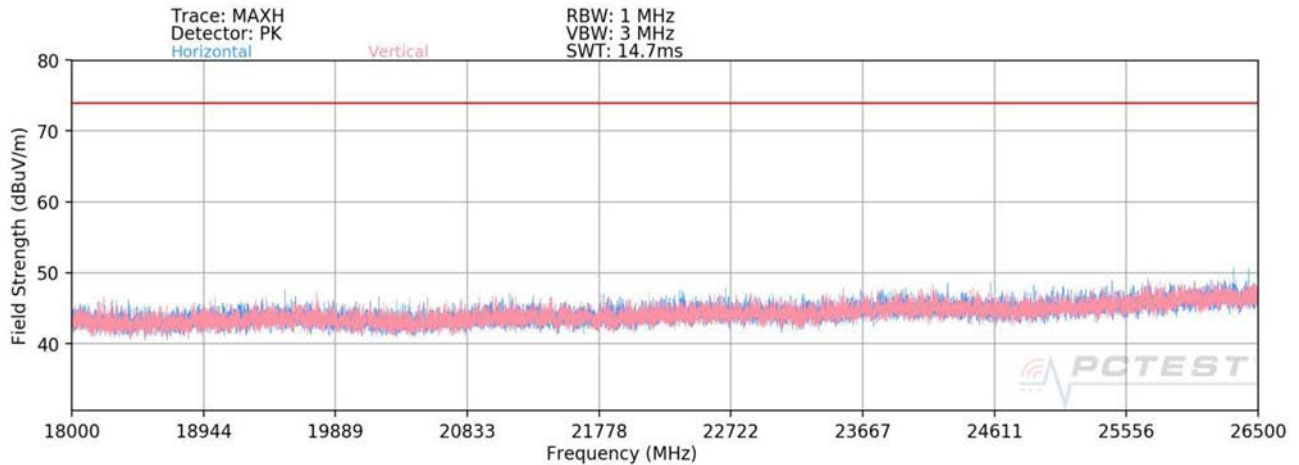


Table 7-52. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4GHz) - Closed

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 230 of 262

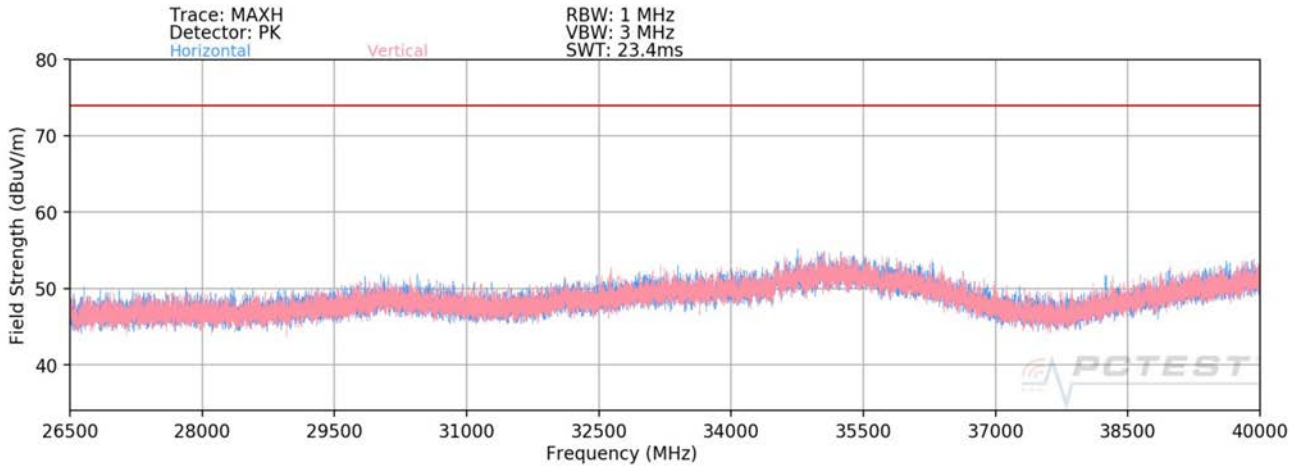
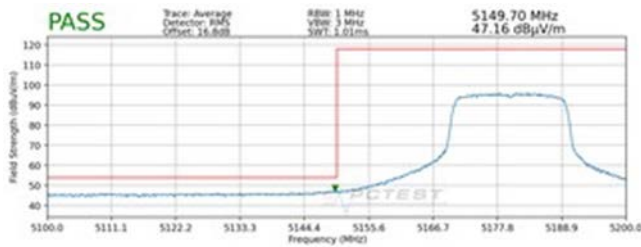


Table 7-53. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4GHz) - Closed

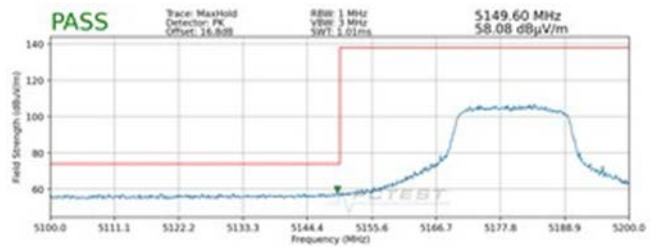
FCC ID: A3LSMF711B1	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 231 of 262	

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:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

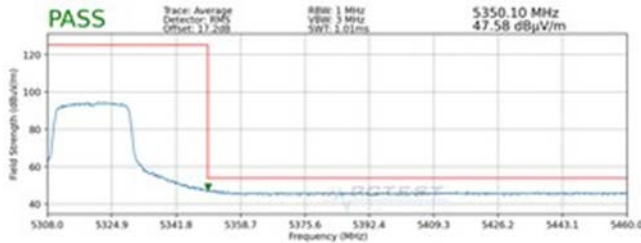


Plot 7-364. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1) (CLOSED)

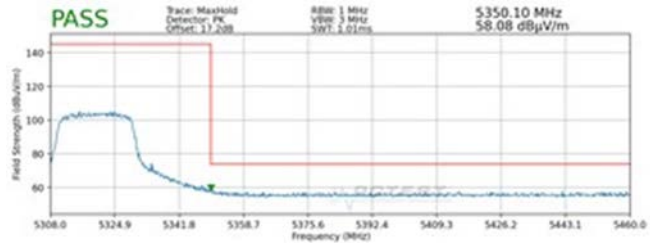


Plot 7-365. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1) (CLOSED)

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



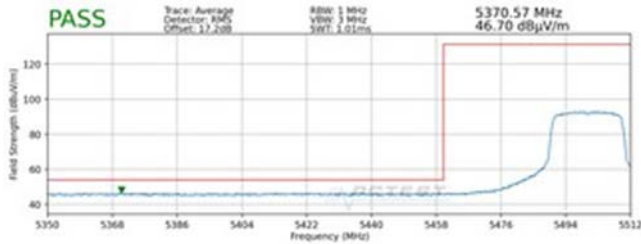
Plot 7-366. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A) (CLOSED)



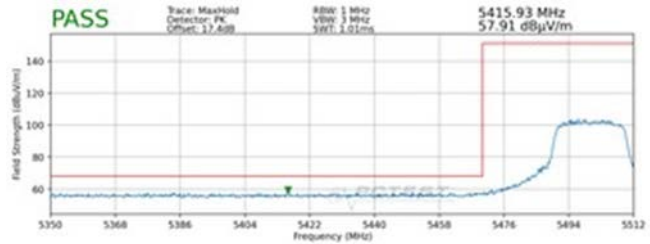
Plot 7-367. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A) (CLOSED)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 232 of 262

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

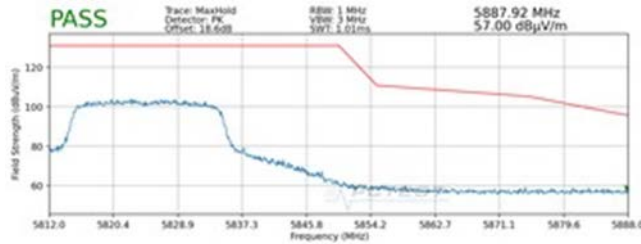


Plot 7-368. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C) (CLOSED)



Plot 7-369. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C) (CLOSED)

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

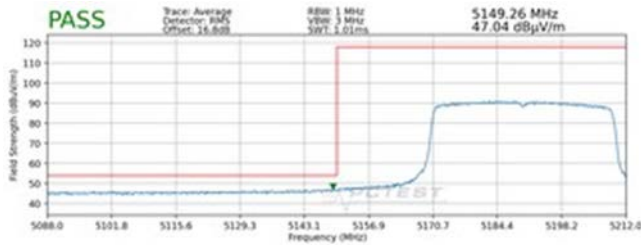


Plot 7-370. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3) (CLOSED)

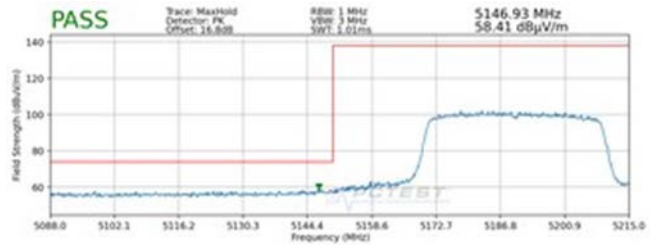
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 233 of 262	

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

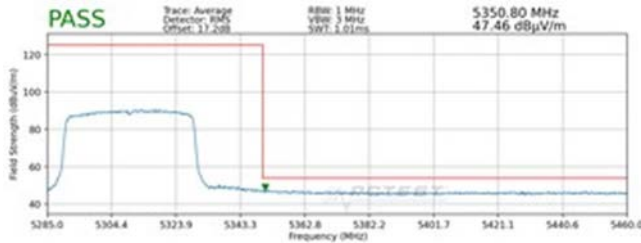


Plot 7-371. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1) (CLOSED)

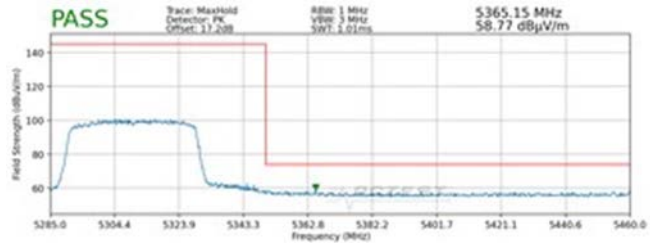


Plot 7-372. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1) (CLOSED)

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



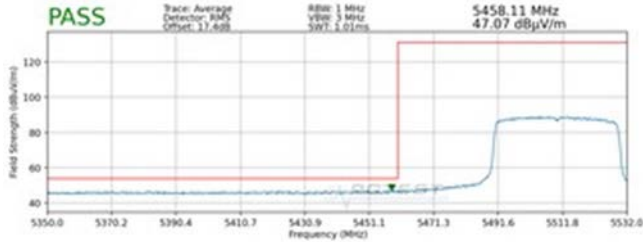
Plot 7-373. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A) (CLOSED)



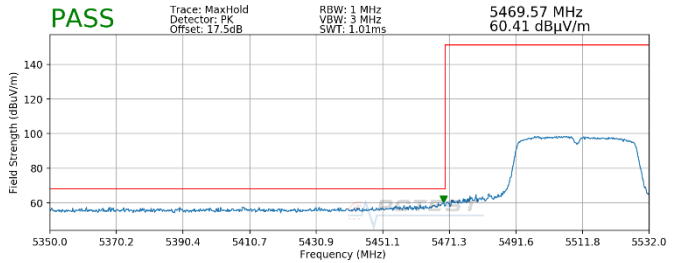
Plot 7-374. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A) (CLOSED)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 234 of 262

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

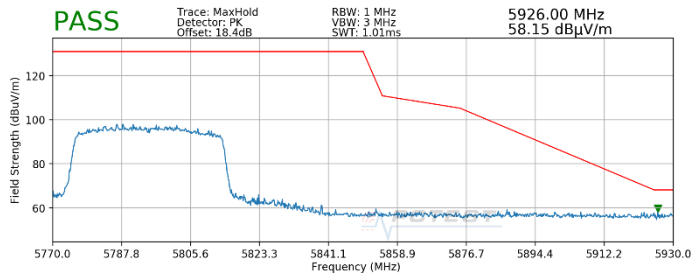


Plot 7-375. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C) (CLOSED)



Plot 7-376. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C) (CLOSED)

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

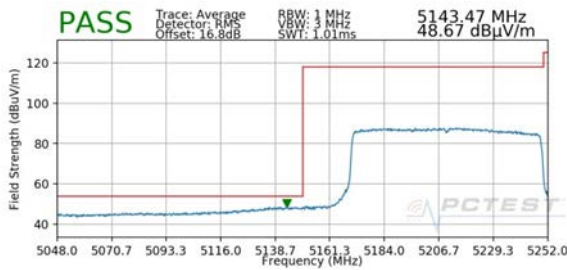


Plot 7-377. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3) (CLOSED)

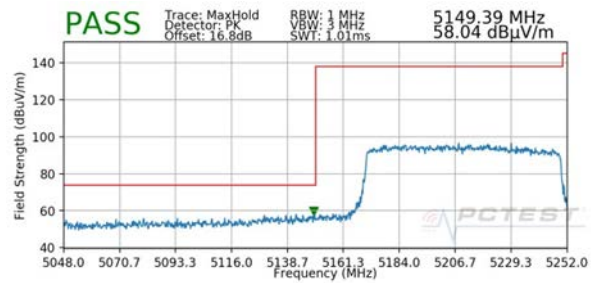
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 235 of 262

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

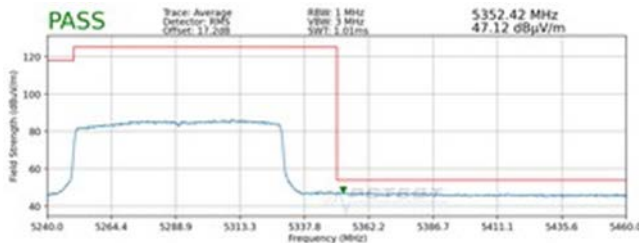


Plot 7-378. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1) (CLOSED)

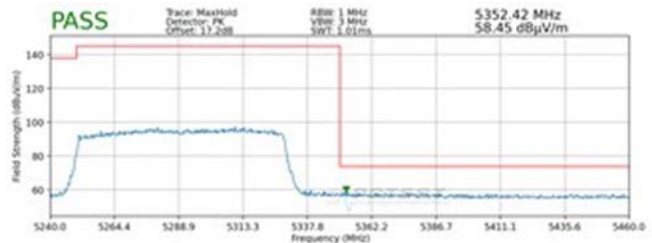


Plot 7-379. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1) (CLOSED)

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



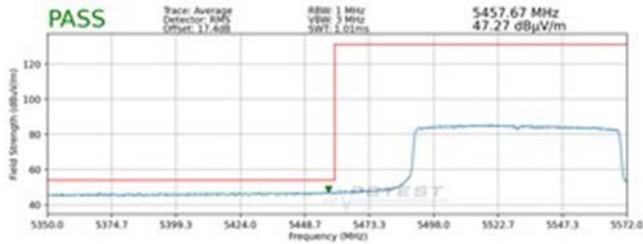
Plot 7-380. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A) (CLOSED)



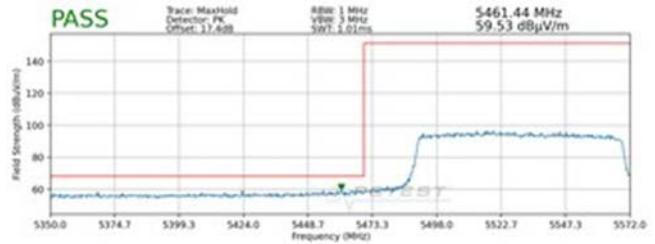
Plot 7-381. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A) (CLOSED)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 236 of 262

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

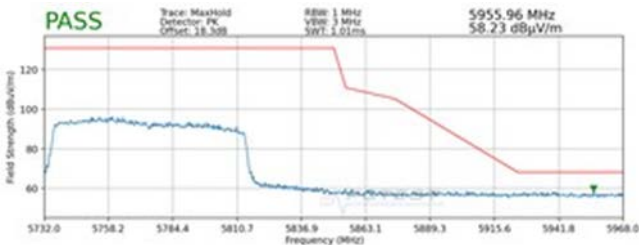


Plot 7-382. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C) (CLOSED)



Plot 7-383. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C) (CLOSED)

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

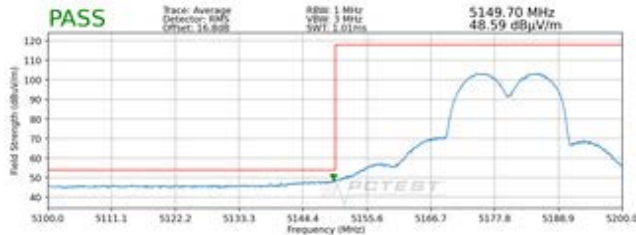


Plot 7-384. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3) (CLOSED)

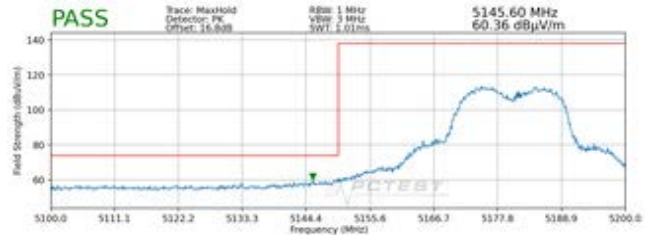
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 237 of 262

7.6.7 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Worst Case Orientation:	Closed
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

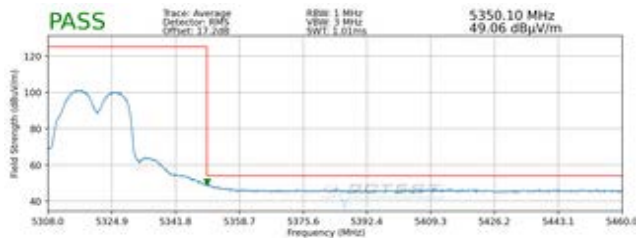


Plot 7-385. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

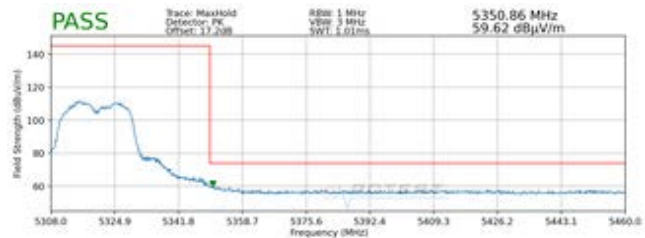


Plot 7-386. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



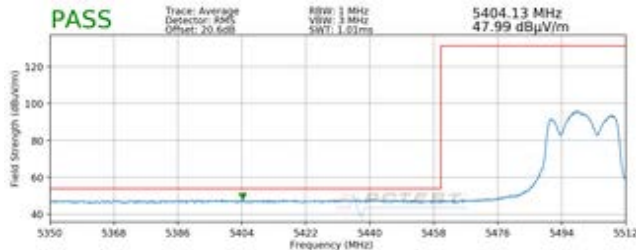
Plot 7-387. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



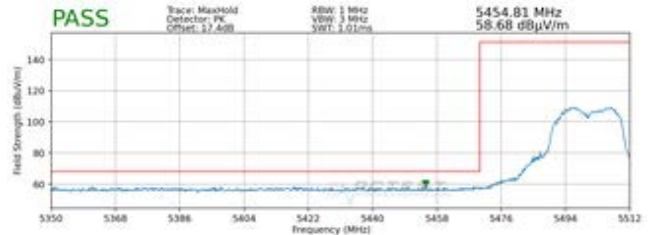
Plot 7-388. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMF711B1	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 238 of 262

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

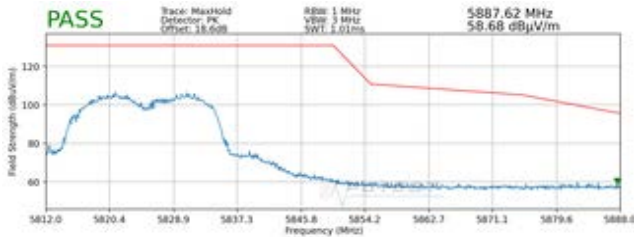


Plot 7-389. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-390. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

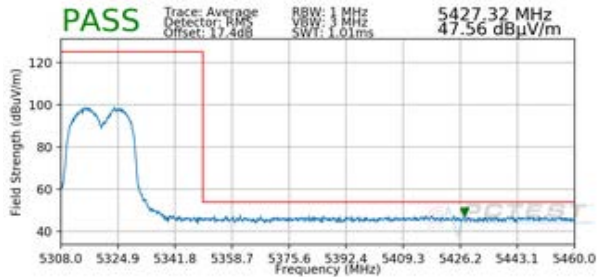
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Worst Case Orientation: Closed
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



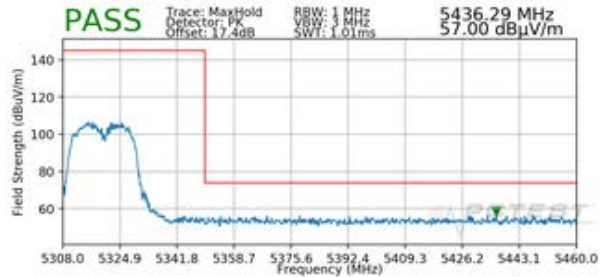
Plot 7-391. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 239 of 262

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



Plot 7-392. Radiated Upper Band Edge Plot MIMO with WCP (Average – UNII Band 2A)

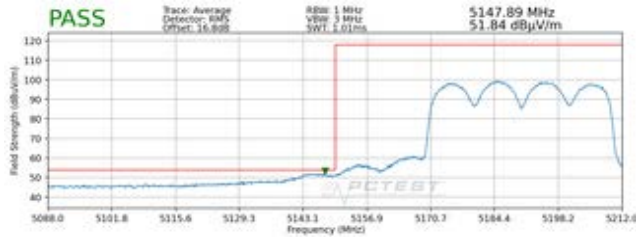


Plot 7-393. Radiated Upper Band Edge Plot MIMO with WCP (Peak – UNII Band 2A)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 240 of 262	

7.6.8 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
Worst Case Orientation:	Closed
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

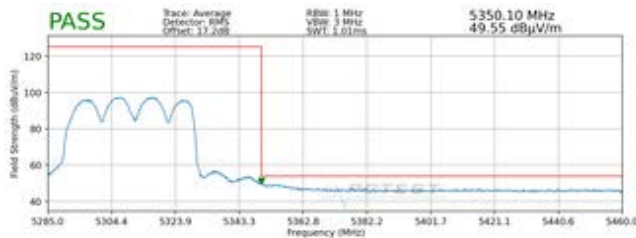


Plot 7-394. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

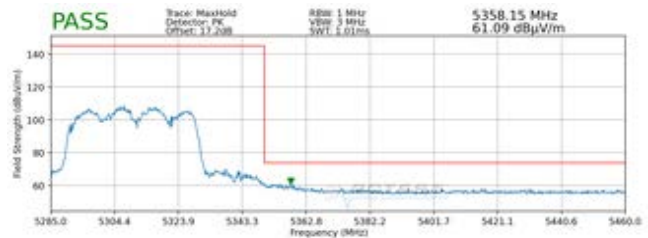


Plot 7-395. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



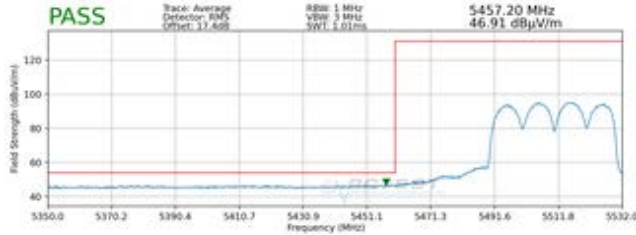
Plot 7-396. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



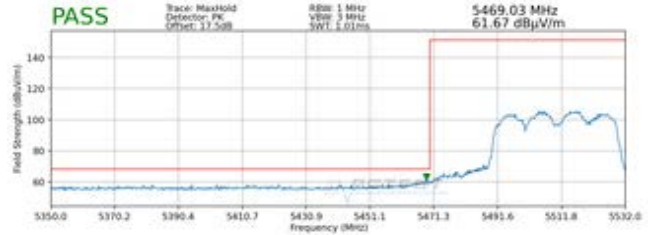
Plot 7-397. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 241 of 262

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

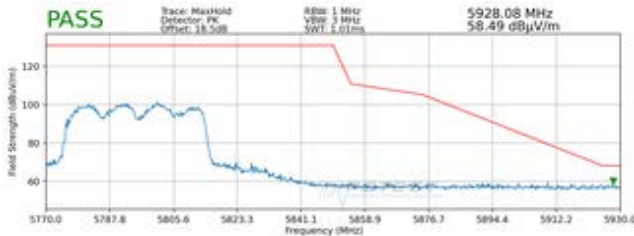


Plot 7-398. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-399. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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



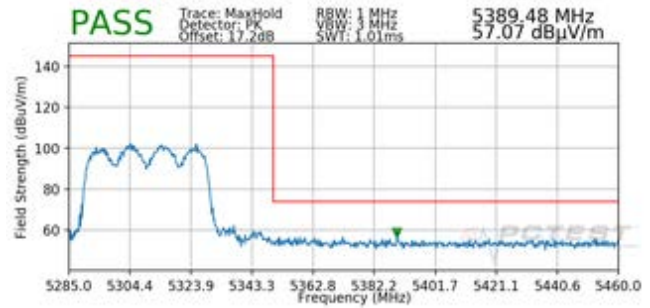
Plot 7-400. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 242 of 262

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



Plot 7-401. Radiated Upper Band Edge Plot MIMO with WCP (Average – UNII Band 2A)

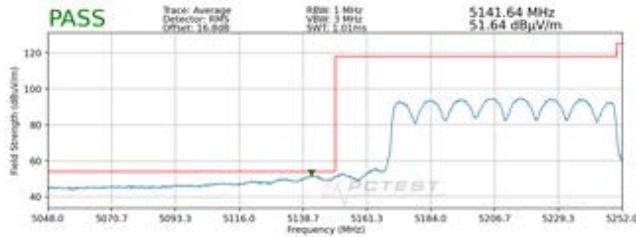


Plot 7-402. Radiated Upper Band Edge Plot MIMO with WCP (Peak – UNII Band 2A)

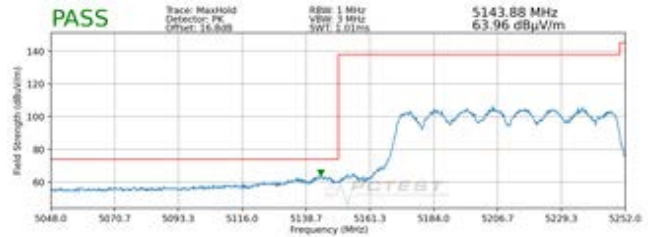
FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset		Page 243 of 262

7.6.9 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
Worst Case Orientation:	Closed
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

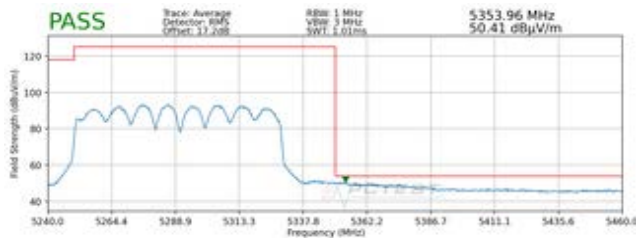


Plot 7-403. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

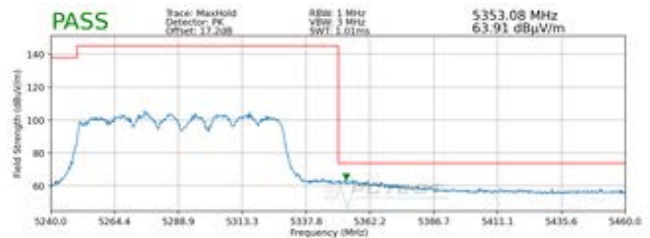


Plot 7-404. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



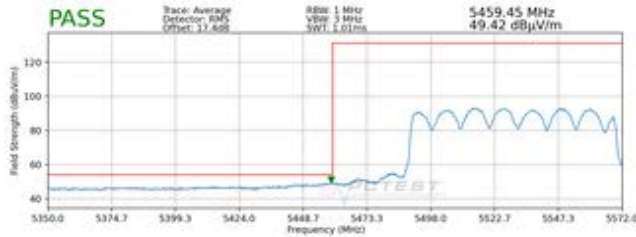
Plot 7-405. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



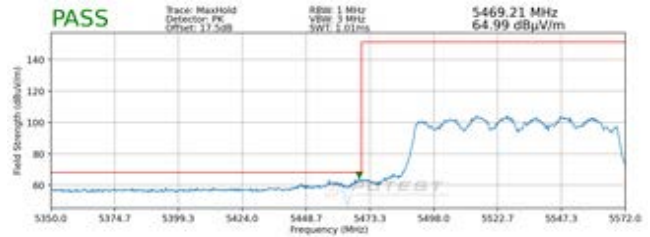
Plot 7-406. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Worst Case Orientation: Closed
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

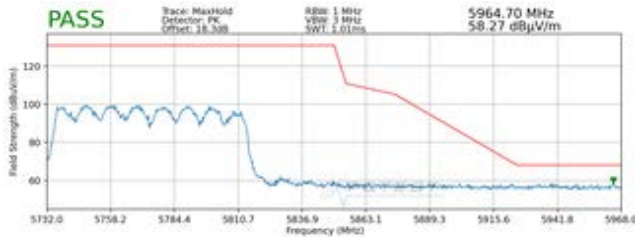


Plot 7-407. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-408. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

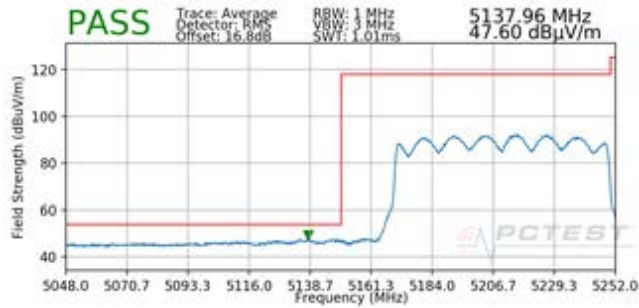
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Worst Case Orientation: Closed
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



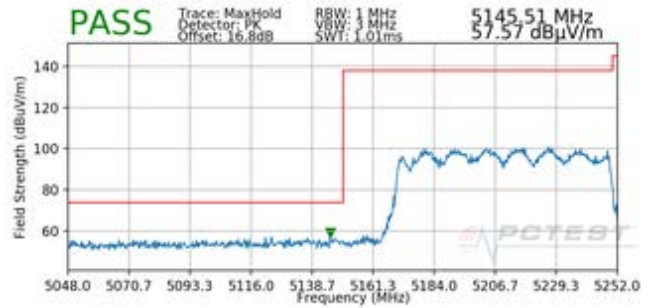
Plot 7-409. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42



Plot 7-410. Radiated Upper Band Edge Plot MIMO with WCP (Average – UNII Band 2C)



Plot 7-411. Radiated Upper Band Edge Plot MIMO with WCP (Peak – UNII Band 2C)

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 7-59 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/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 7-54. 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.

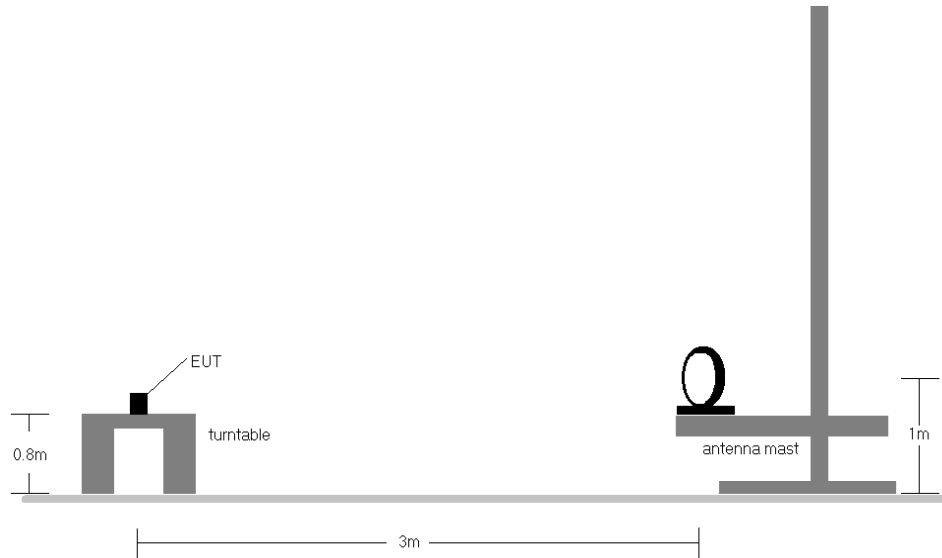


Figure 7-6. Radiated Test Setup < 30MHz

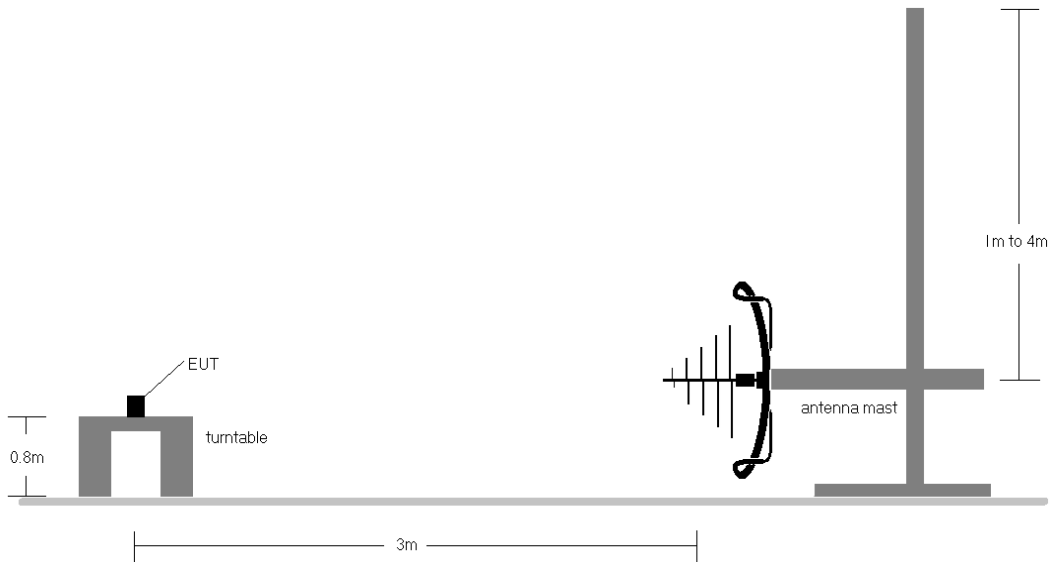


Figure 7-7. Radiated Test Setup < 1GHz

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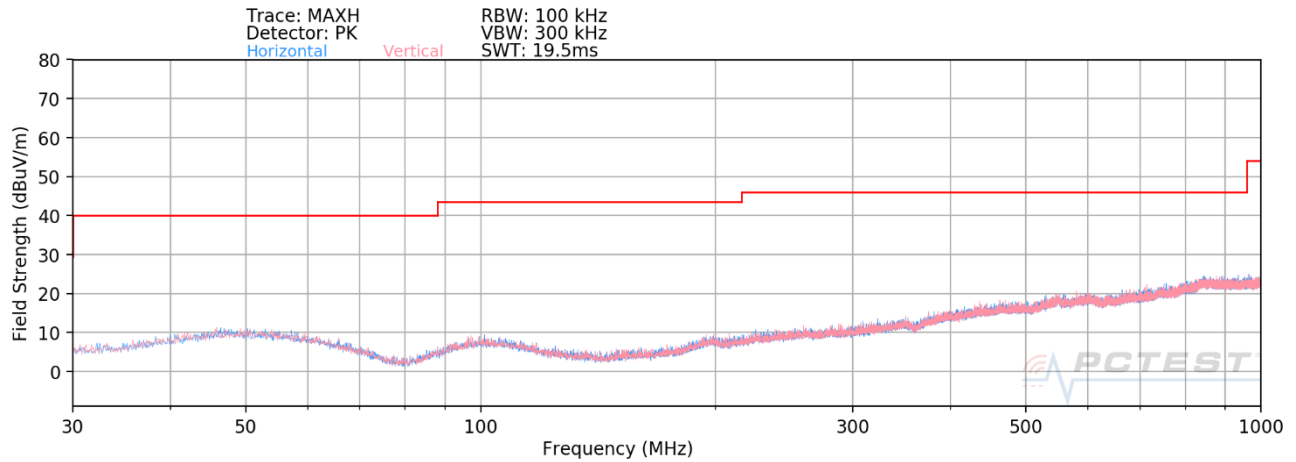
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-54.
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.

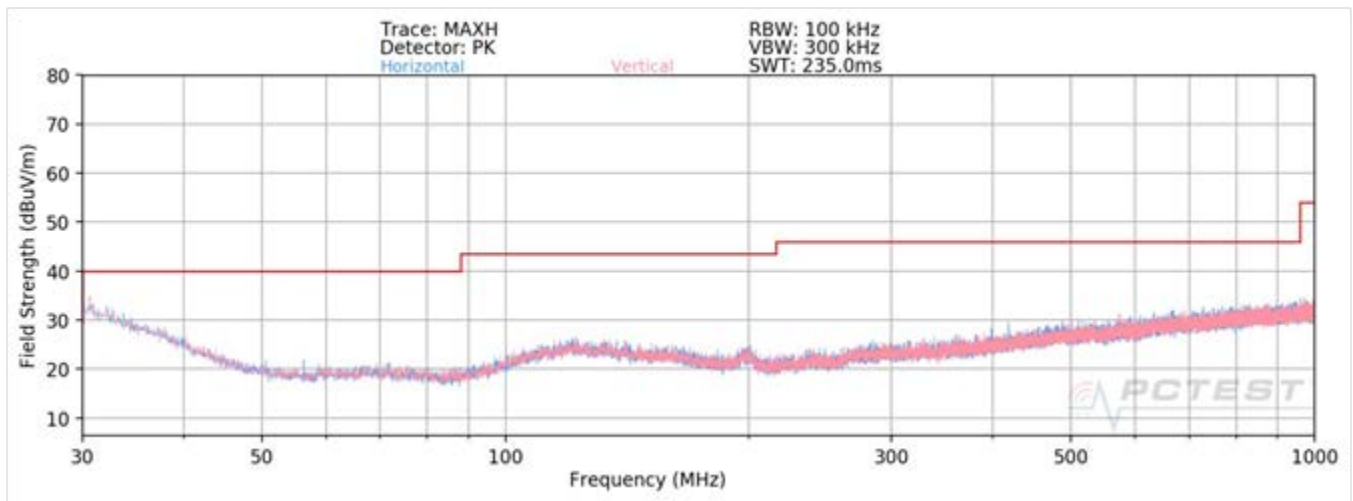
FCC ID: A3LSMF711B1	 Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 249 of 262	

SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



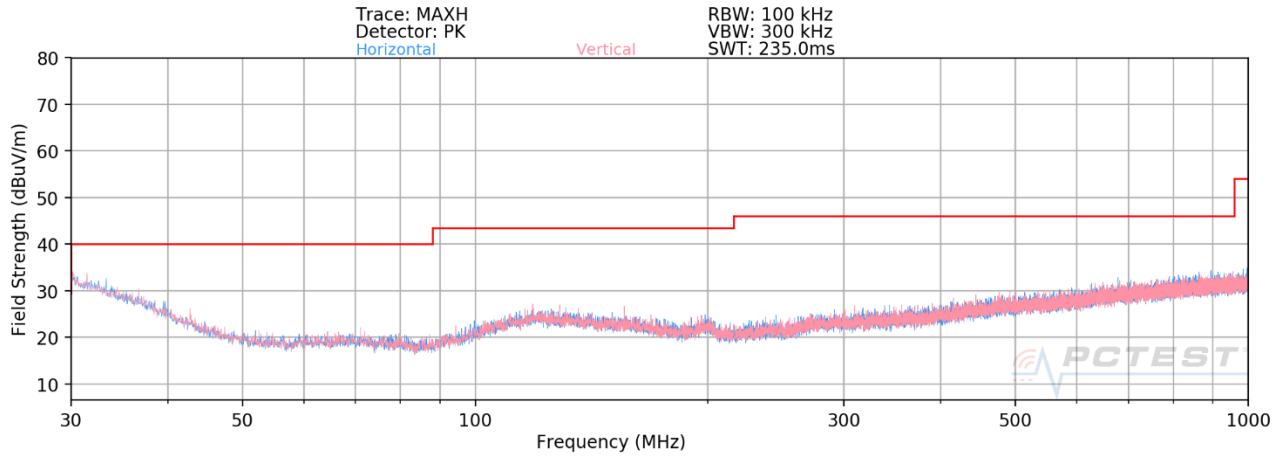
Plot 7-412. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a – U3 Ch. 157) – OPEN



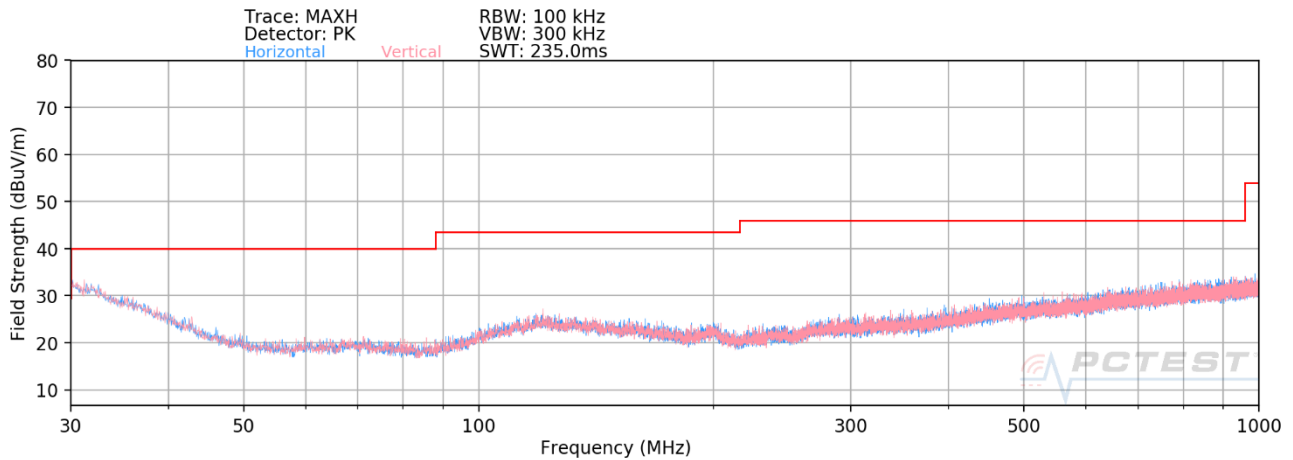
Plot 7-413. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a – U3 Ch. 157) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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CDD Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-414. Radiated Spurious Plot below 1GHz CDD (802.11a – U3 Ch. 157) – OPEN



Plot 7-415. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11a – U3 Ch. 157) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2108160097-09.A3L	Test Dates: 4/12/2021-6/2/2021	EUT Type: Portable Handset	Page 251 of 262	

7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

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

Table 7-55. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

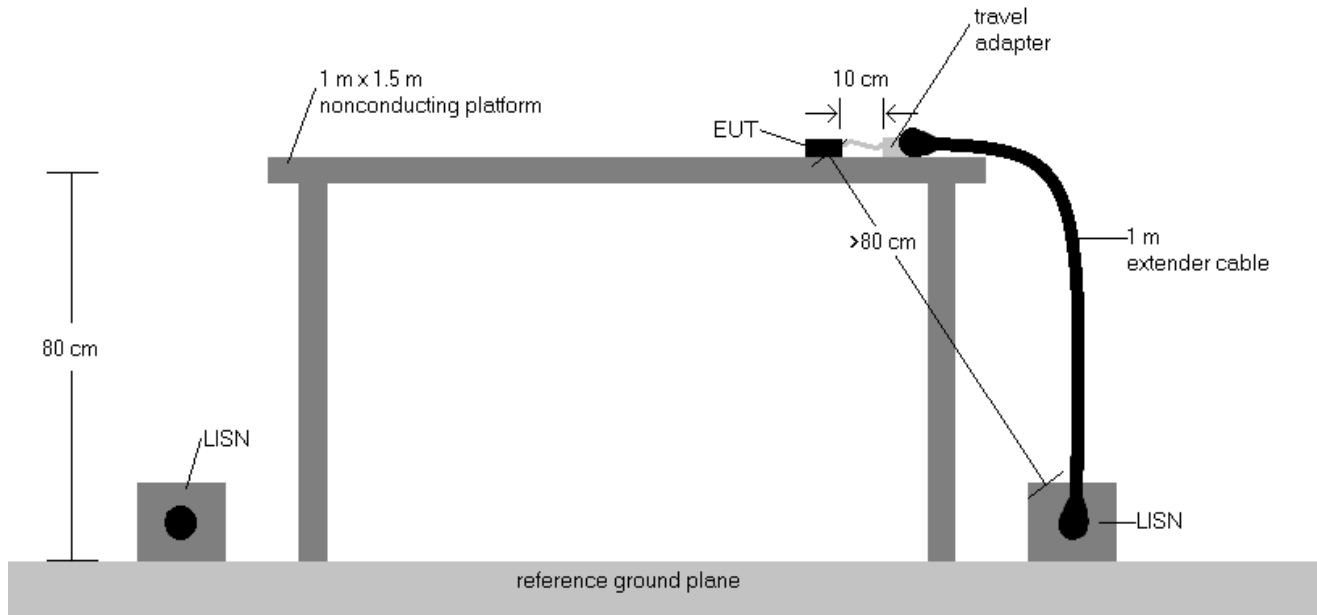
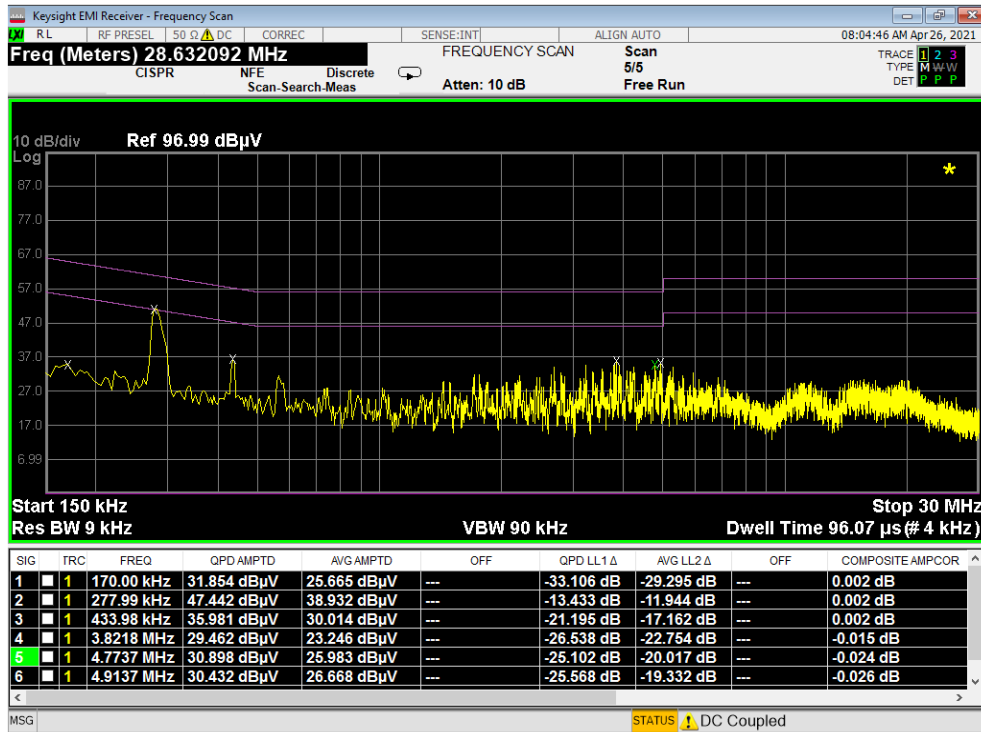


Figure 7-8. Test Instrument & Measurement Setup

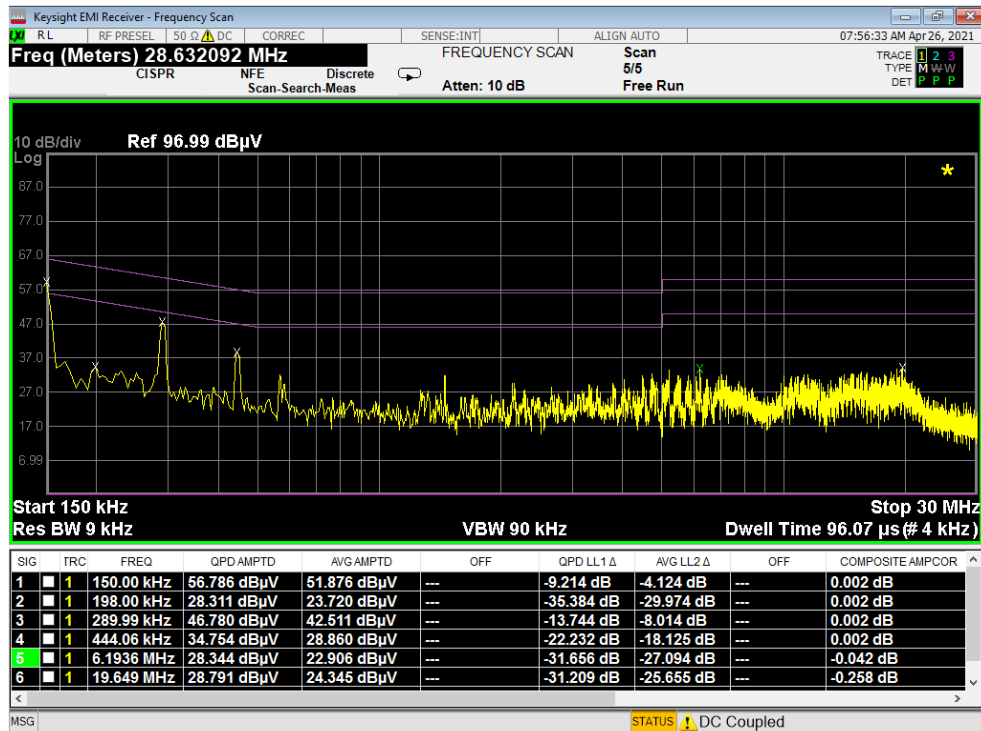
Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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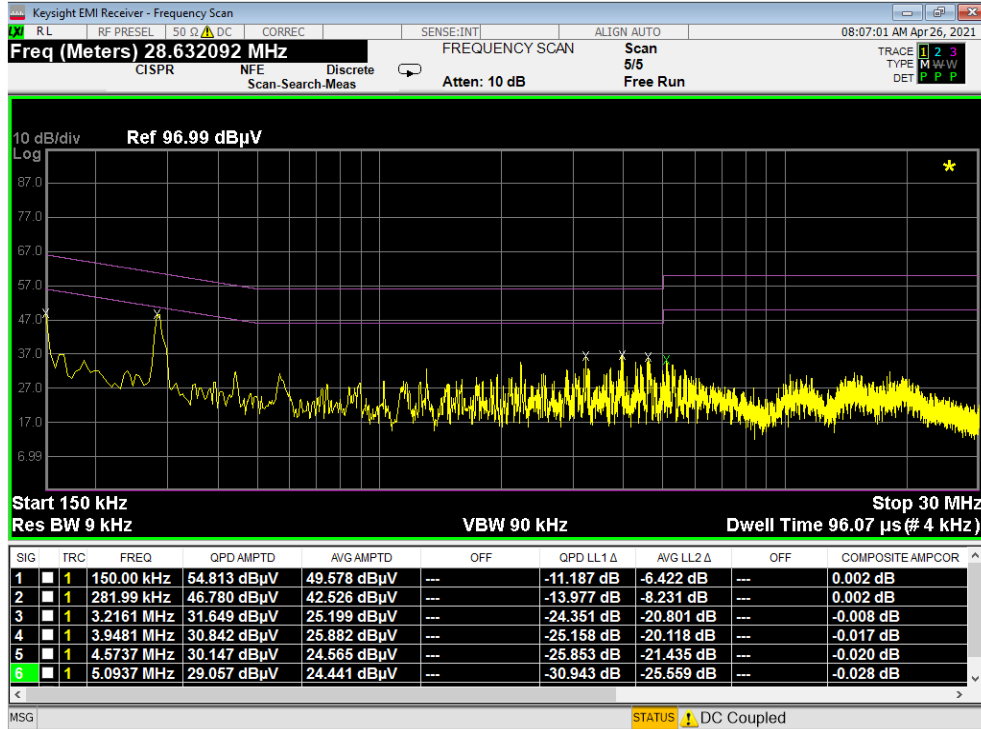


Plot 7-416. Line Conducted Plot with 802.11a UNII Band 1 (L1) - Open

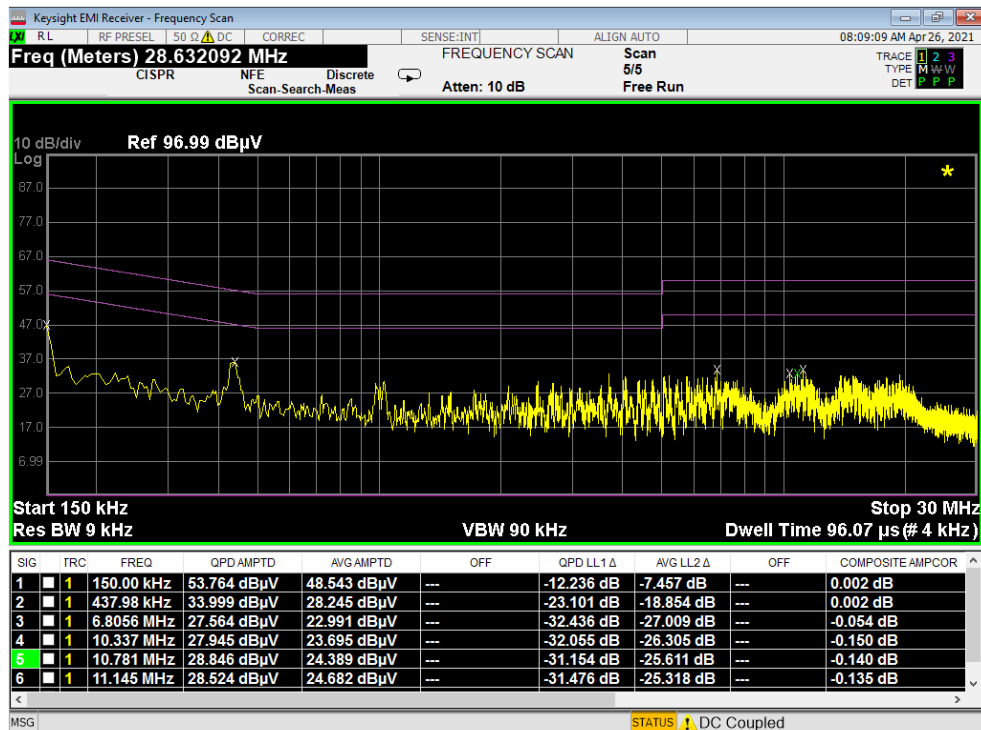


Plot 7-417. Line Conducted Plot with 802.11a UNII Band 1 (N) - Open

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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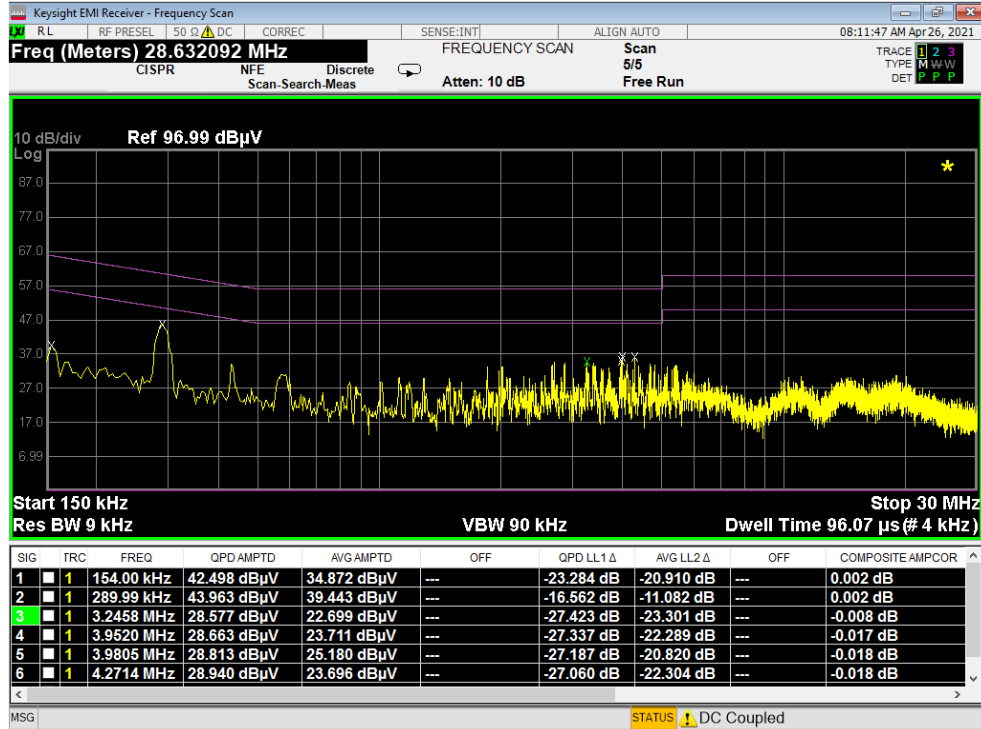


Plot 7-418. Line Conducted Plot with 802.11a UNII Band 2A (L1) - Open

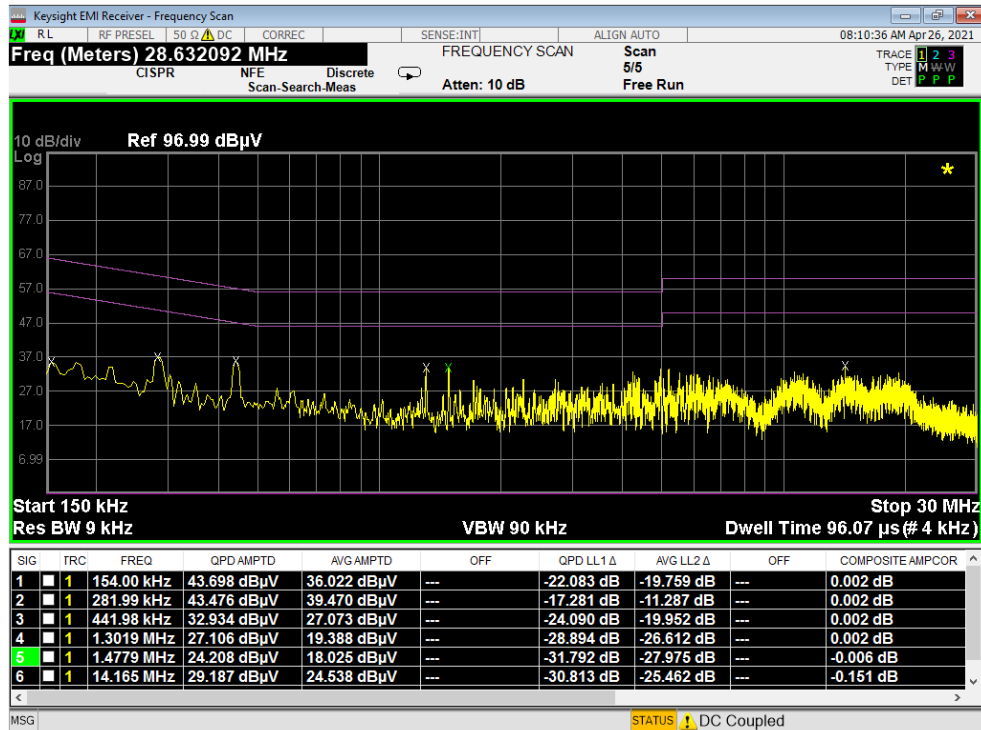


Plot 7-419. Line Conducted Plot with 802.11a UNII Band 2A (N) - Open

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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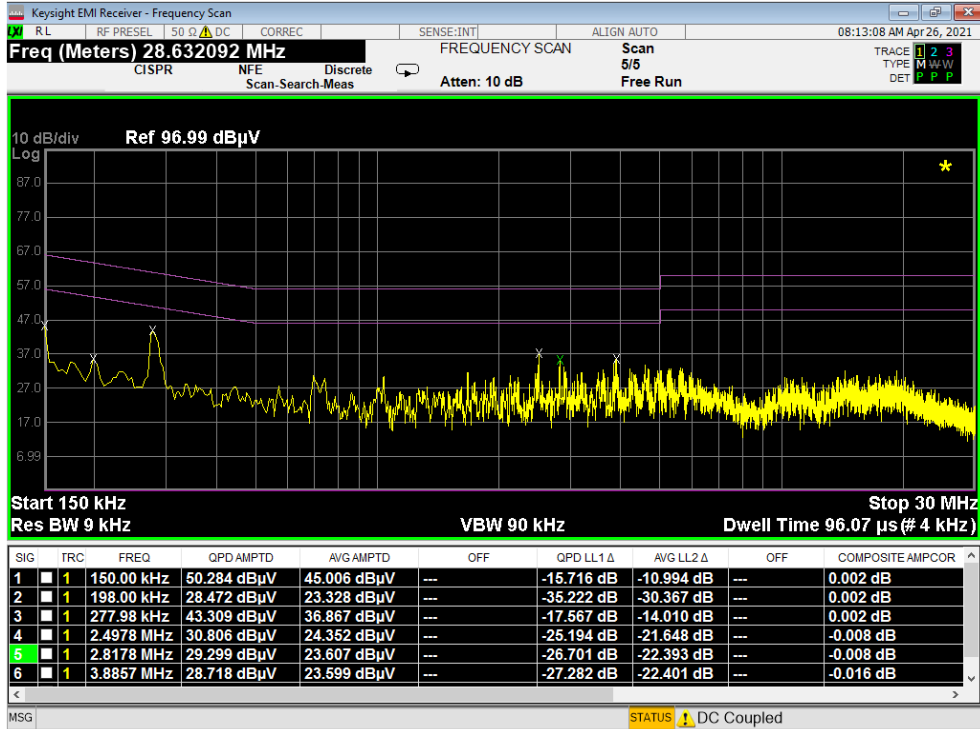


Plot 7-420. Line Conducted Plot with 802.11a UNII Band 2C (L1) - Open

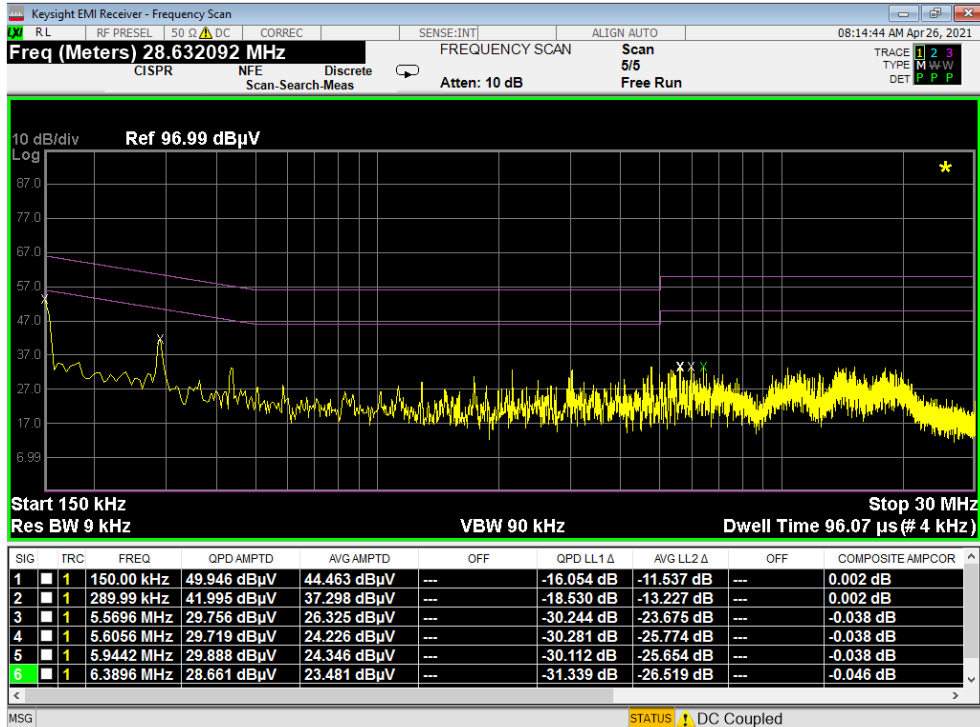


Plot 7-421. Line Conducted Plot with 802.11a UNII Band 2C (N) - Open

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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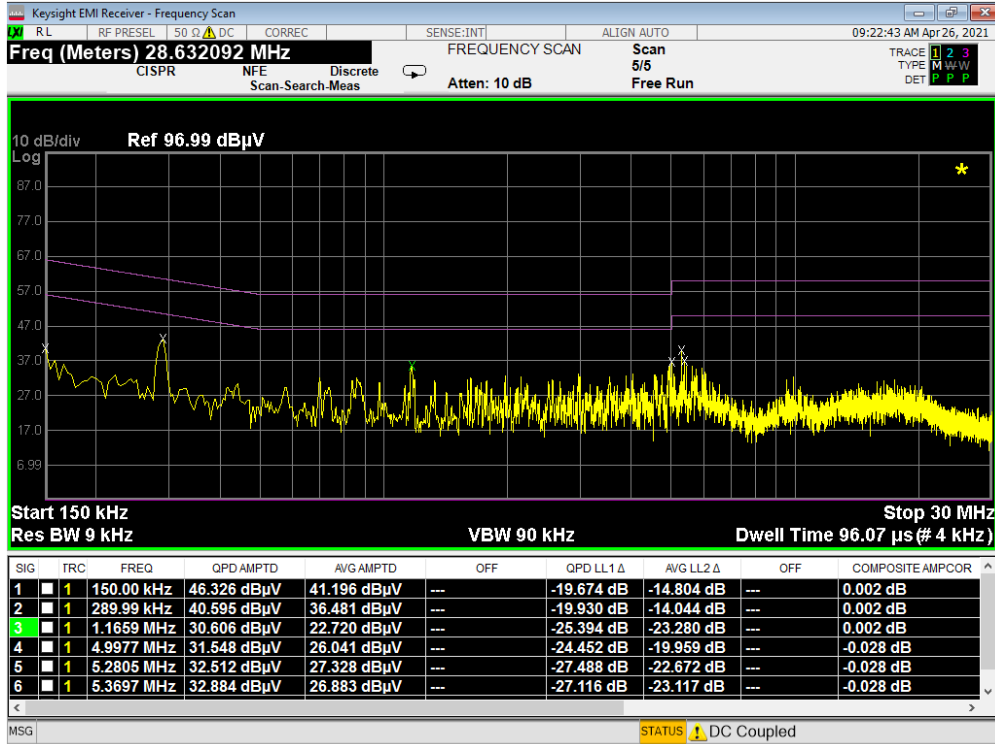


Plot 7-422. Line Conducted Plot with 802.11a UNII Band 3 (L1) - Open

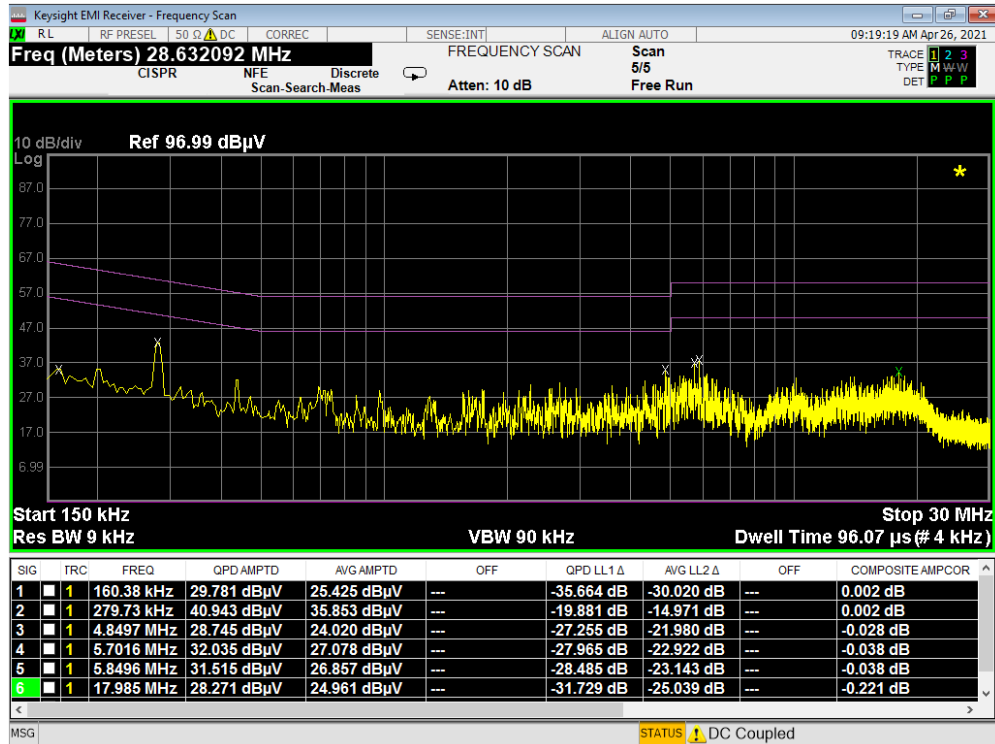


Plot 7-423. Line Conducted Plot with 802.11a UNII Band 3 (N) - Open

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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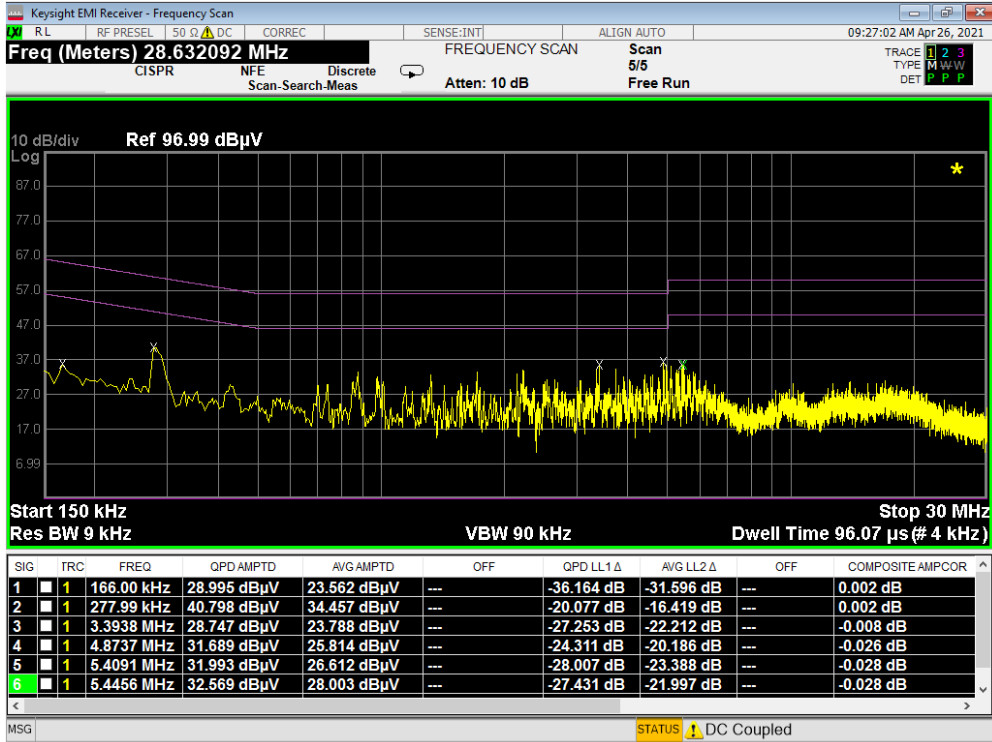


Plot 7-424. Line Conducted Plot with 802.11a UNII Band 1 (L1) – CLOSED

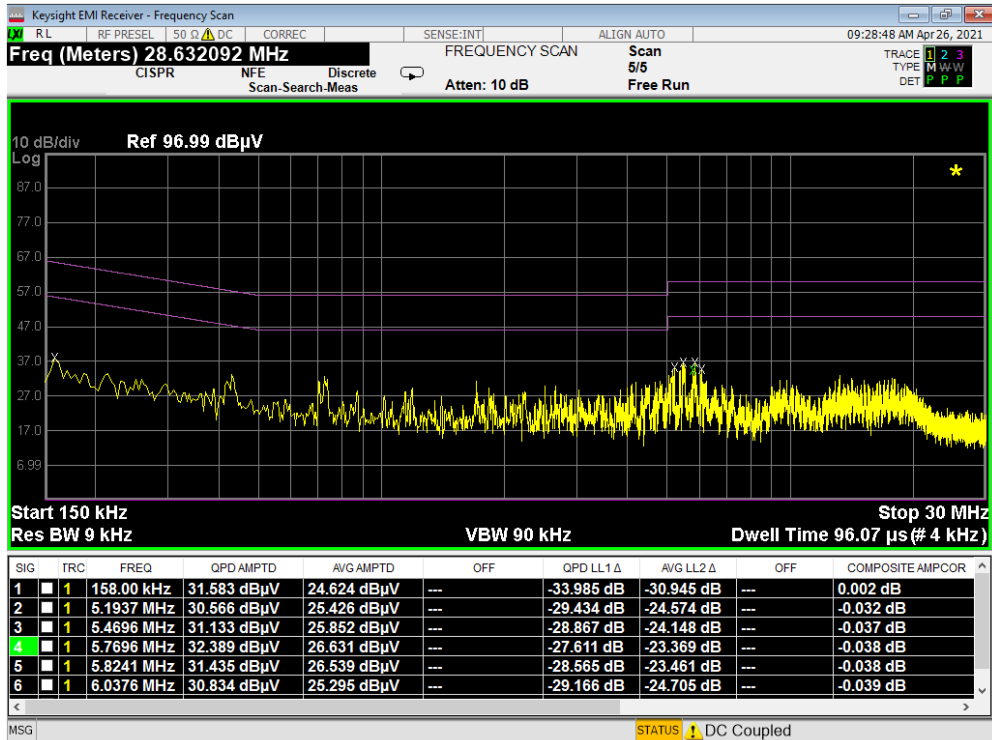


Plot 7-425. Line Conducted Plot with 802.11a UNII Band 1 (N) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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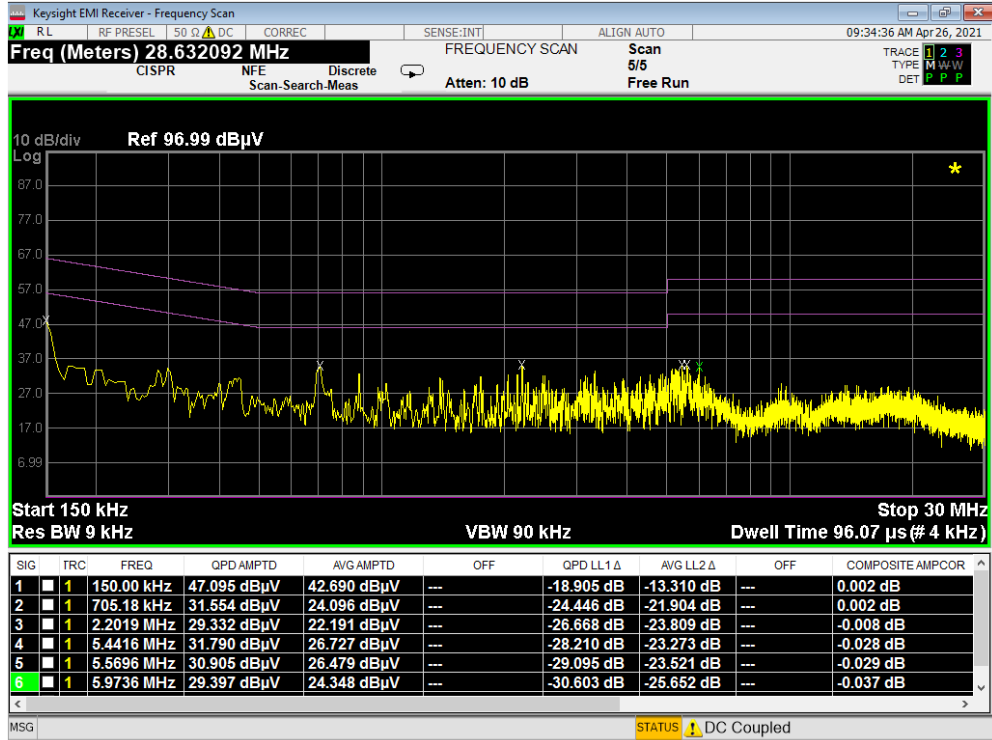


Plot 7-426. Line Conducted Plot with 802.11a UNII Band 2A (L1) – CLOSED

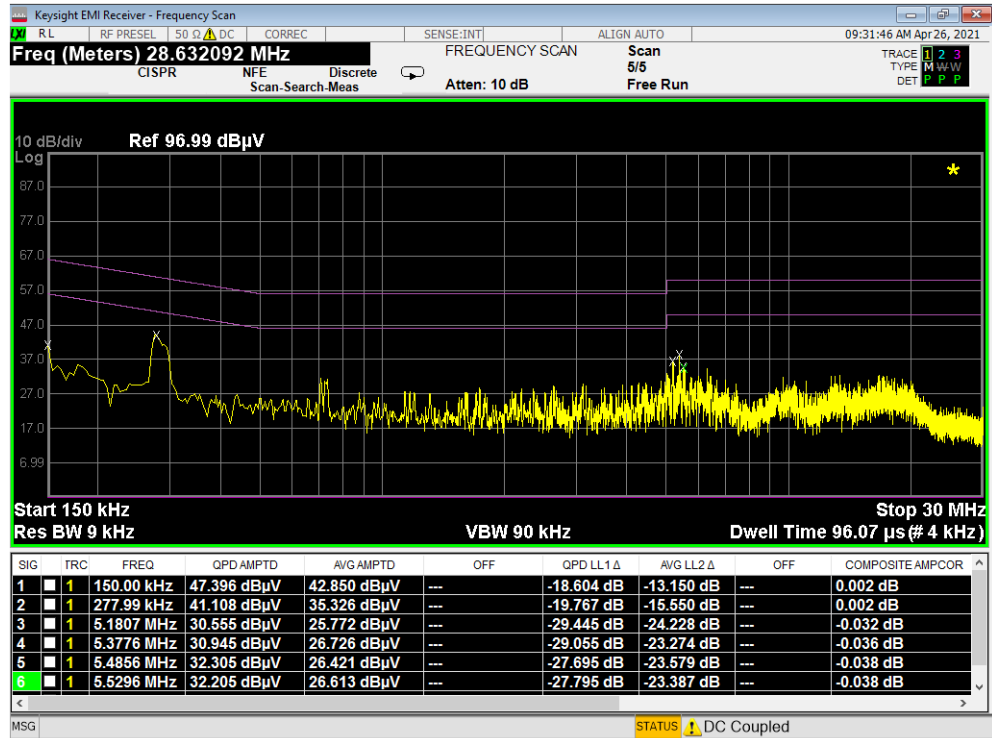


Plot 7-427. Line Conducted Plot with 802.11a UNII Band 2A (N) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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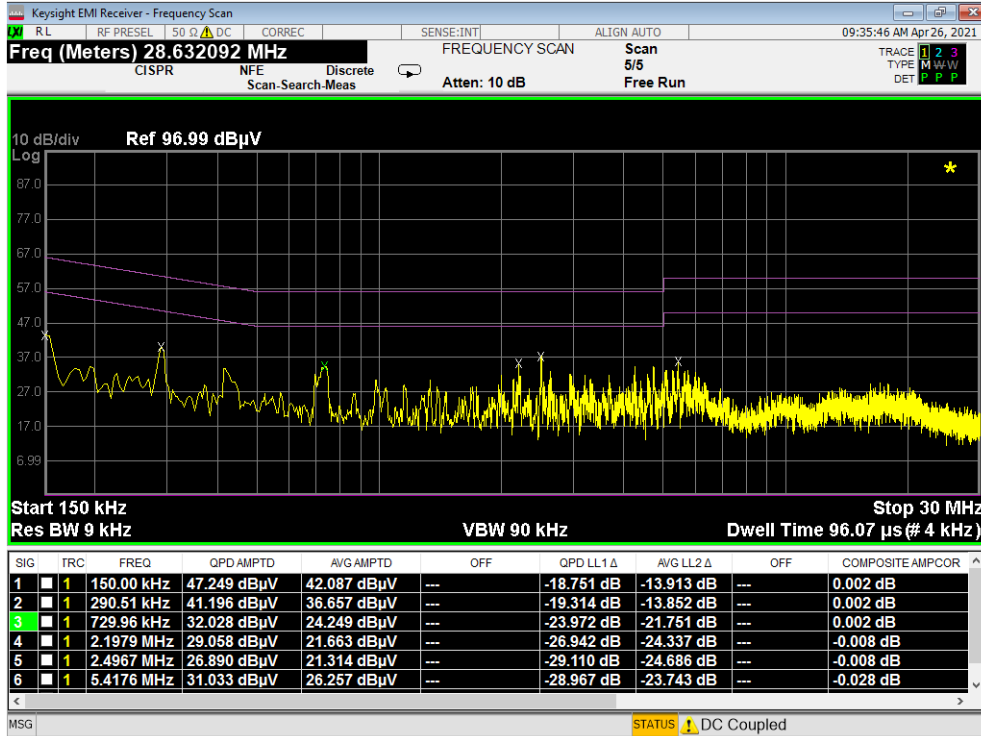


Plot 7-428. Line Conducted Plot with 802.11a UNII Band 2C (L1) – CLOSED

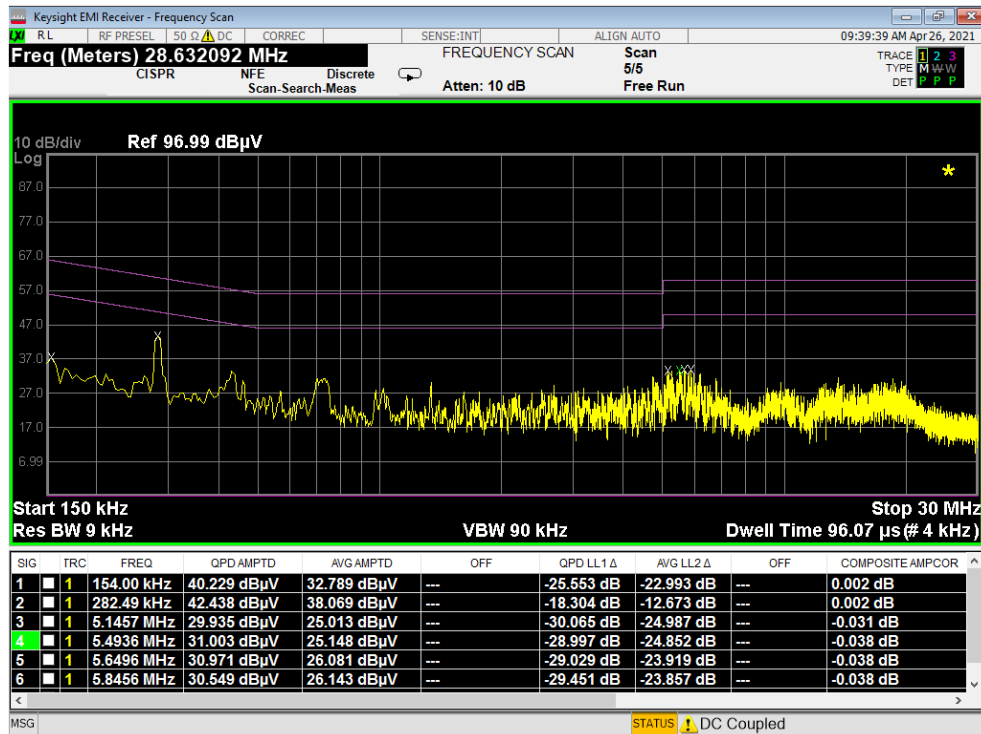


Plot 7-429. Line Conducted Plot with 802.11a UNII Band 2C (N) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-430. Line Conducted Plot with 802.11a UNII Band 3 (L1) – CLOSED



Plot 7-431. Line Conducted Plot with 802.11a UNII Band 3 (N) – CLOSED

FCC ID: A3LSMF711B1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF711B1** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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