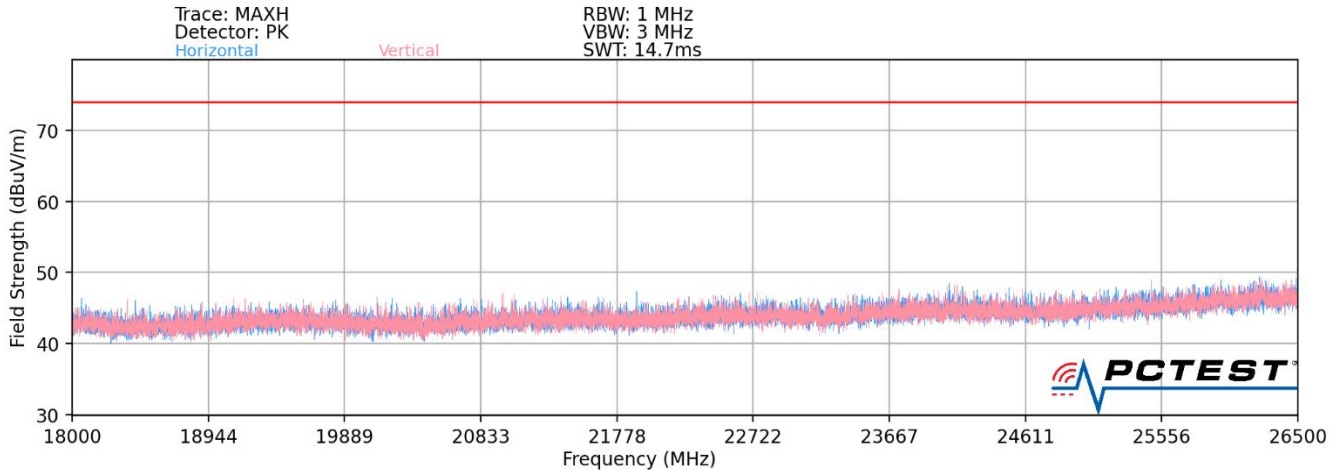
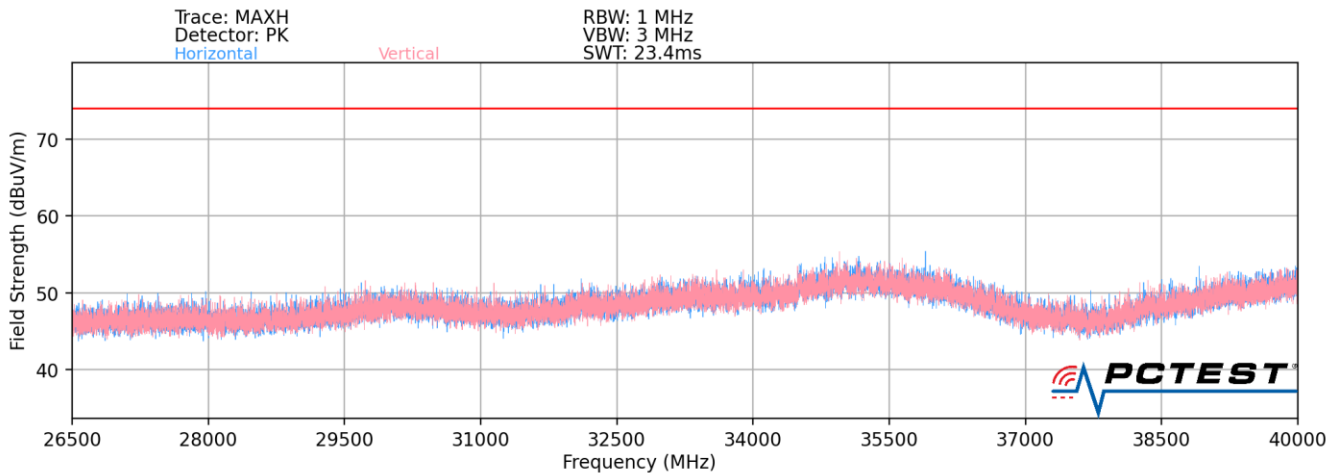



## MIMO Radiated Spurious Emissions Measurements (Above 18GHz) – Q

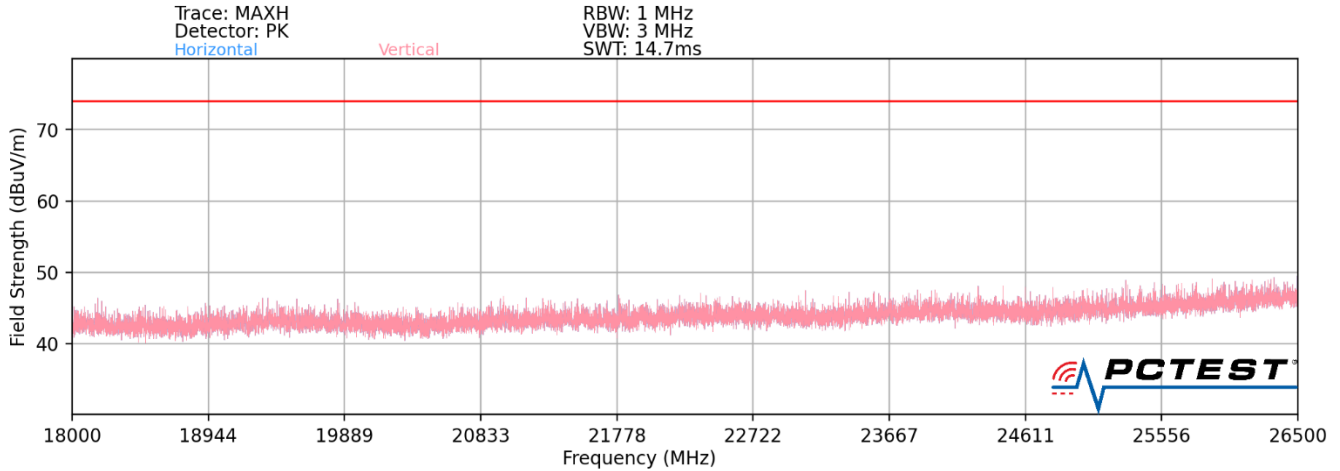


**Plot 7-573. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones) – Open**

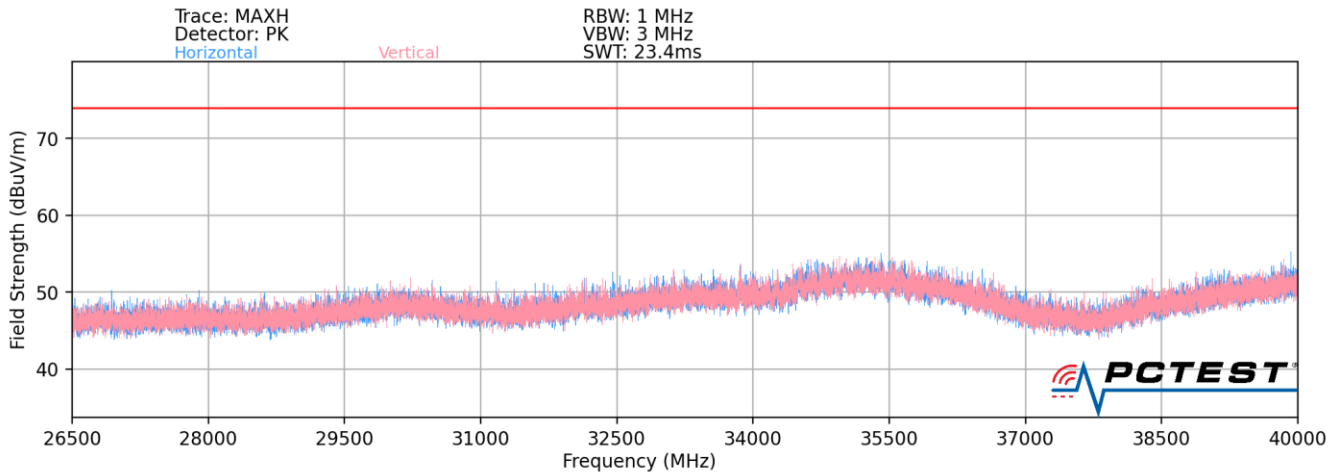


**Plot 7-574. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 26 Tones) – Open**

FCC ID: A3LSMF711U	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 377 of 413



**Plot 7-575. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax - 26 Tones) - Closed**



**Plot 7-576. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 26 Tones) - Closed**

FCC ID: A3LSMF711U	 Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	 <b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104070032-15.A3L	<b>Test Dates:</b> 04/12/2021 - 06/04/2021	<b>EUT Type:</b> Portable Handset	Page 378 of 413

## MIMO Radiated Spurious Emission Measurements (26 Tones) – Q

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

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-77.56	19.96	0.00	49.40	68.20	-18.80
* 15540.00	Average	H	-	-	-89.46	29.65	0.00	47.19	53.98	-6.79
* 15540.00	Peak	H	-	-	-75.65	29.65	0.00	61.00	73.98	-12.98
* 20720.00	Average	H	-	-	-66.66	4.48	-9.54	35.28	53.98	-18.70
* 20720.00	Peak	H	-	-	-56.30	4.48	-9.54	45.64	73.98	-28.34
25900.00	Peak	H	-	-	-55.59	6.92	-9.54	48.78	68.20	-19.42

Table 7-119. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-78.46	20.91	0.00	49.45	68.20	-18.75
* 15600.00	Average	H	-	-	-90.56	28.90	0.00	45.34	53.98	-8.64
* 15600.00	Peak	H	-	-	-77.64	28.90	0.00	58.26	73.98	-15.72
* 20800.00	Average	H	-	-	-66.51	4.89	-9.54	35.83	53.98	-18.14
* 20800.00	Peak	H	-	-	-56.75	4.89	-9.54	45.59	73.98	-28.39
26000.00	Peak	H	-	-	-55.15	7.11	-9.54	49.41	68.20	-18.79

Table 7-120. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 379 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-76.46	21.04	0.00	51.58	68.20	-16.62
* 15720.00	Average	H	-	-	-89.65	29.41	0.00	46.76	53.98	-7.22
* 15720.00	Peak	H	-	-	-77.49	29.41	0.00	58.92	73.98	-15.06
* 20960.00	Average	H	-	-	-67.36	5.01	-9.54	35.11	53.98	-18.87
* 20960.00	Peak	H	-	-	-56.53	5.01	-9.54	45.94	73.98	-28.04
26200.00	Peak	H	-	-	-55.58	6.99	-9.54	48.86	68.20	-19.34

**Table 7-121. Radiated Measurements MIMO (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-78.11	20.61	0.00	49.50	68.20	-18.70
* 15780.00	Average	H	-	-	-89.32	28.91	0.00	46.59	53.98	-7.39
* 15780.00	Peak	H	-	-	-76.22	28.91	0.00	59.69	73.98	-14.29
* 21040.00	Average	H	-	-	-66.85	4.88	-9.54	35.50	53.98	-18.48
* 21040.00	Peak	H	-	-	-56.33	4.88	-9.54	46.01	73.98	-27.97
26300.00	Peak	H	-	-	-55.93	7.06	-9.54	48.59	68.20	-19.61

**Table 7-122. Radiated Measurements MIMO (26 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 380 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-77.46	20.73	0.00	50.27	68.20	-17.93
* 15840.00	Average	H	-	-	-88.76	29.02	0.00	47.26	53.98	-6.72
* 15840.00	Peak	H	-	-	-76.38	29.02	0.00	59.64	73.98	-14.34
* 21120.00	Average	H	-	-	-67.05	5.08	-9.54	35.50	53.98	-18.48
* 21120.00	Peak	H	-	-	-56.29	5.08	-9.54	46.25	73.98	-27.73
26400.00	Peak	H	-	-	-55.66	7.43	-9.54	49.23	68.20	-18.97

**Table 7-123. Radiated Measurements MIMO (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-89.13	20.77	0.00	38.64	53.98	-15.34
* 10640.00	Peak	H	-	-	-76.22	20.77	0.00	51.55	73.98	-22.43
* 15960.00	Average	H	-	-	-89.97	29.34	0.00	46.37	53.98	-7.61
* 15960.00	Peak	H	-	-	-77.11	29.34	0.00	59.23	73.98	-14.75
* 21280.00	Average	H	-	-	-66.73	5.14	-9.54	35.87	53.98	-18.11
* 21280.00	Peak	H	-	-	-56.49	5.14	-9.54	46.11	73.98	-27.87
26600.00	Peak	H	-	-	-55.35	7.21	-9.54	49.32	68.20	-18.88

**Table 7-124. Radiated Measurements MIMO (26 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 381 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-87.56	21.12	0.00	40.56	53.98	-13.42
* 11000.00	Peak	H	-	-	-76.11	21.12	0.00	52.01	73.98	-21.97
16500.00	Peak	H	-	-	-77.16	30.54	0.00	60.38	68.20	-7.82
22000.00	Peak	H	-	-	-56.16	5.16	-9.54	46.45	68.20	-21.75
27500.00	Peak	H	-	-	-55.54	7.69	-9.54	49.61	68.20	-18.59

**Table 7-125. Radiated Measurements MIMO (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-89.79	21.45	0.00	38.66	53.98	-15.32
* 11200.00	Peak	H	-	-	-76.94	21.45	0.00	51.51	73.98	-22.47
16800.00	Peak	H	-	-	-75.39	29.69	0.00	61.30	68.20	-6.90
* 22400.00	Average	H	-	-	-66.16	5.45	-9.54	36.75	53.98	-17.23
* 22400.00	Peak	H	-	-	-55.82	5.45	-9.54	47.08	73.98	-26.90
28000.00	Peak	H	-	-	-56.26	7.97	-9.54	49.16	68.20	-19.04

**Table 7-126. Radiated Measurements MIMO (26 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 382 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-87.69	22.42	0.00	41.73	53.98	-12.25
* 11440.00	Peak	H	-	-	-77.49	22.42	0.00	51.93	73.98	-22.05
17160.00	Peak	H	-	-	-78.11	30.42	0.00	59.31	68.20	-8.89
* 22880.00	Average	H	-	-	-66.44	5.42	-9.54	36.45	53.98	-17.53
* 22880.00	Peak	H	-	-	-55.53	5.42	-9.54	47.35	73.98	-26.63
28600.00	Peak	H	-	-	-55.72	8.29	-9.54	50.03	68.20	-18.17

**Table 7-127. Radiated Measurements MIMO (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-88.97	22.78	0.00	40.81	53.98	-13.17
* 11490.00	Peak	H	-	-	-76.32	22.78	0.00	53.46	73.98	-20.52
17235.00	Peak	H	-	-	-77.16	30.48	0.00	60.32	68.20	-7.88
* 22980.00	Average	H	-	-	-66.40	5.29	-9.54	36.35	53.98	-17.63
* 22980.00	Peak	H	-	-	-55.74	5.29	-9.54	47.01	73.98	-26.97
28725.00	Peak	H	-	-	-55.21	8.24	-9.54	50.48	68.20	-17.72

**Table 7-128. Radiated Measurements MIMO (26 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 383 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-88.64	23.08	0.00	41.44	53.98	-12.54
* 11570.00	Peak	H	-	-	-76.49	23.08	0.00	53.59	73.98	-20.39
17355.00	Peak	H	-	-	-75.73	31.85	0.00	63.12	68.20	-5.08
23140.00	Peak	H	-	-	-55.61	5.34	-9.54	47.18	68.20	-21.02
28925.00	Peak	H	-	-	-58.33	8.47	-9.54	47.60	68.20	-20.60

**Table 7-129. Radiated Measurements MIMO (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

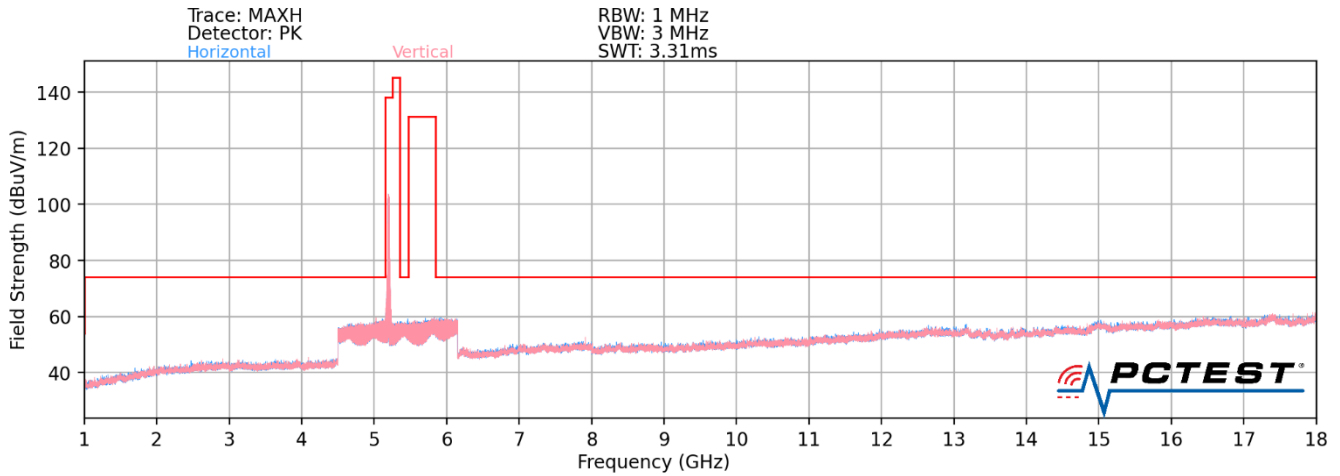
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-89.67	22.91	0.00	40.24	53.98	-13.74
* 11650.00	Peak	H	-	-	-76.83	22.91	0.00	53.08	73.98	-20.90
17475.00	Peak	H	-	-	-77.45	30.58	0.00	60.13	68.20	-8.07
23300.00	Peak	H	-	-	-56.26	5.29	-9.54	46.48	68.20	-21.72
29125.00	Peak	H	-	-	-56.18	8.49	-9.54	49.77	68.20	-18.43

**Table 7-130. Radiated Measurements MIMO (26 Tones)**

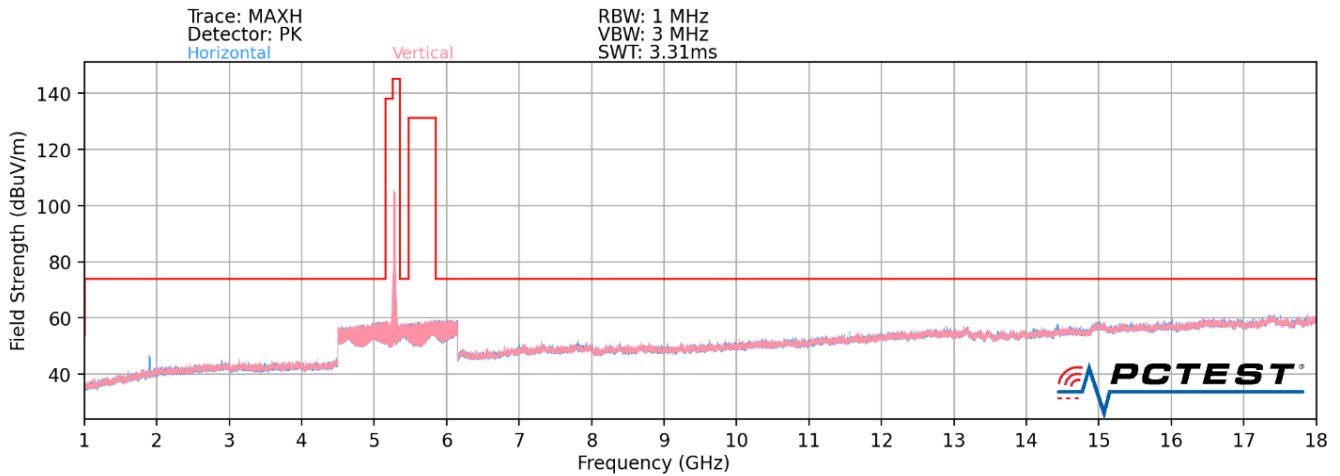
FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 384 of 413



### 242 Tones – Q

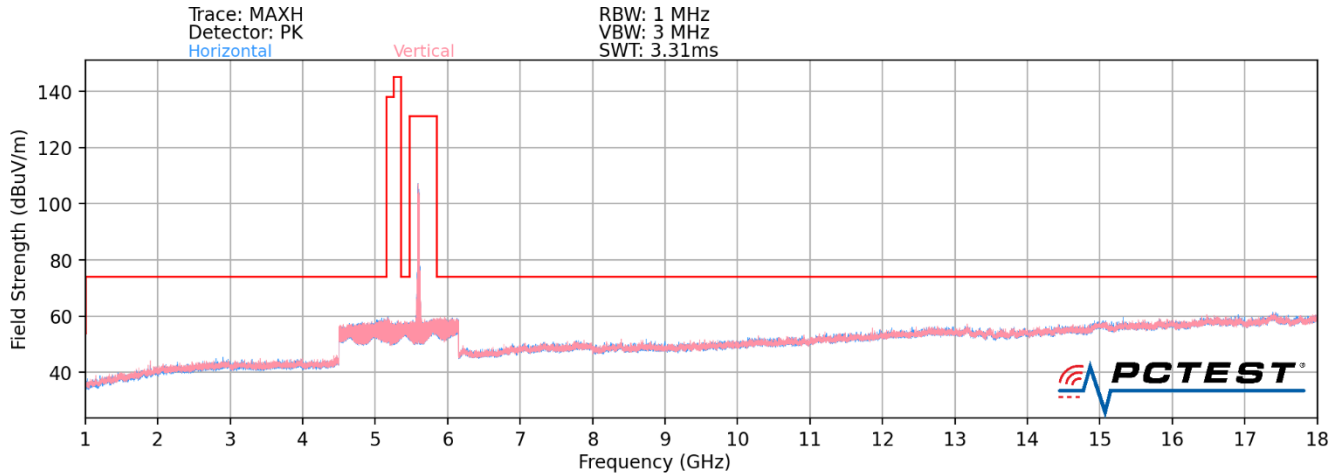


**Plot 7-577. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones) – Open**

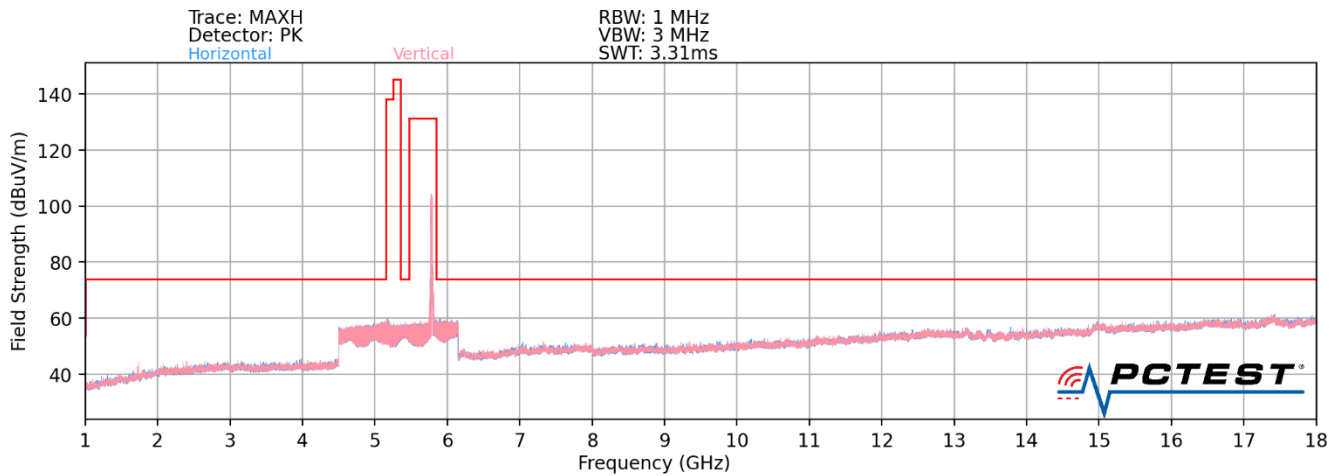


**Plot 7-578. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) – Open**

FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 385 of 413

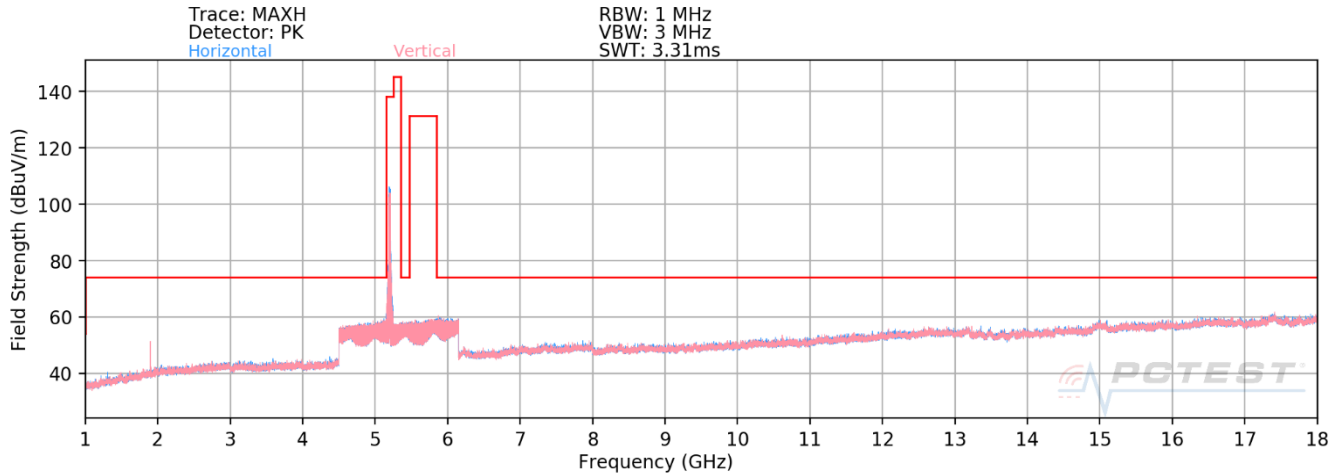


**Plot 7-579. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones) – Open**

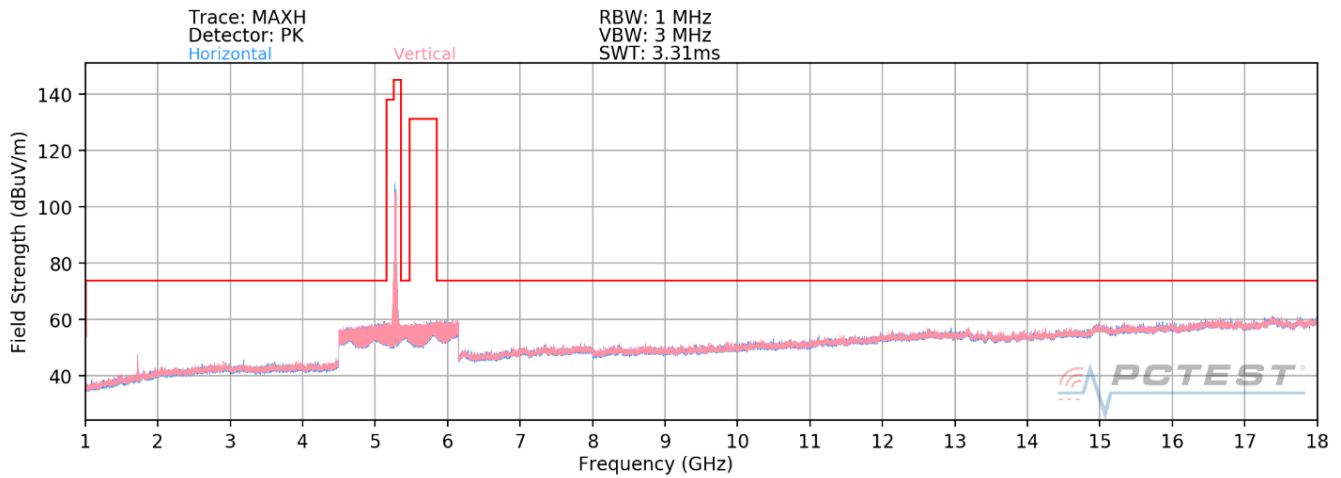


**Plot 7-580. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones) – Open**

FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 386 of 413

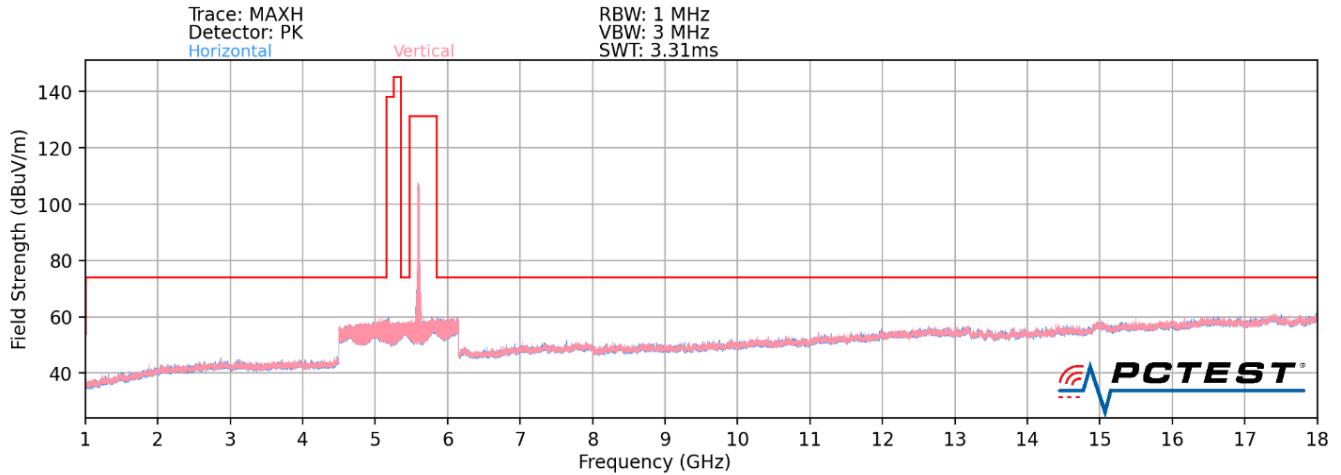


**Plot 7-581. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones) – Closed**

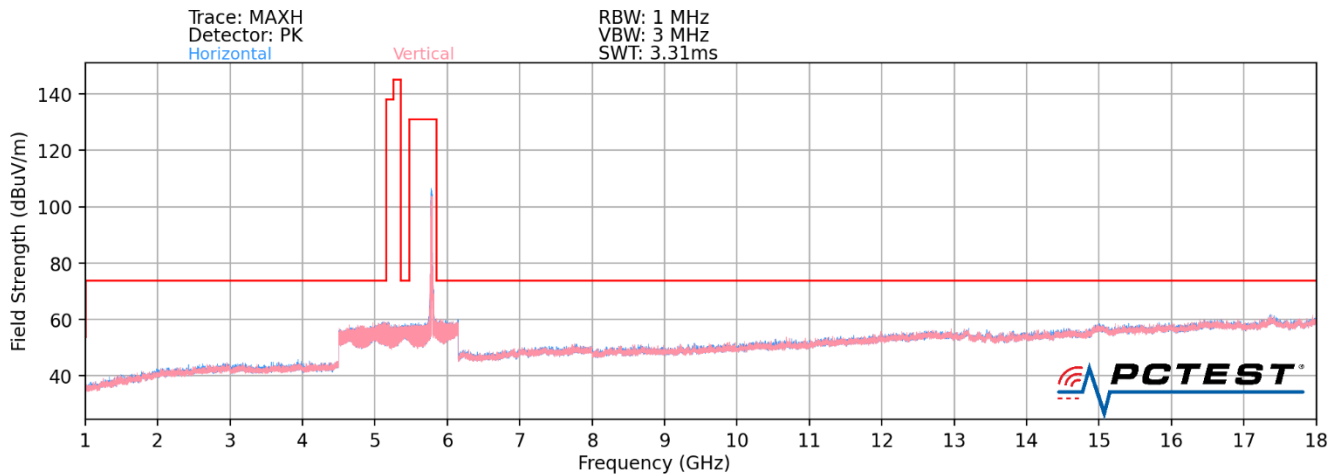


**Plot 7-582. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) – Closed**

FCC ID: A3LSMF711U	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 387 of 413



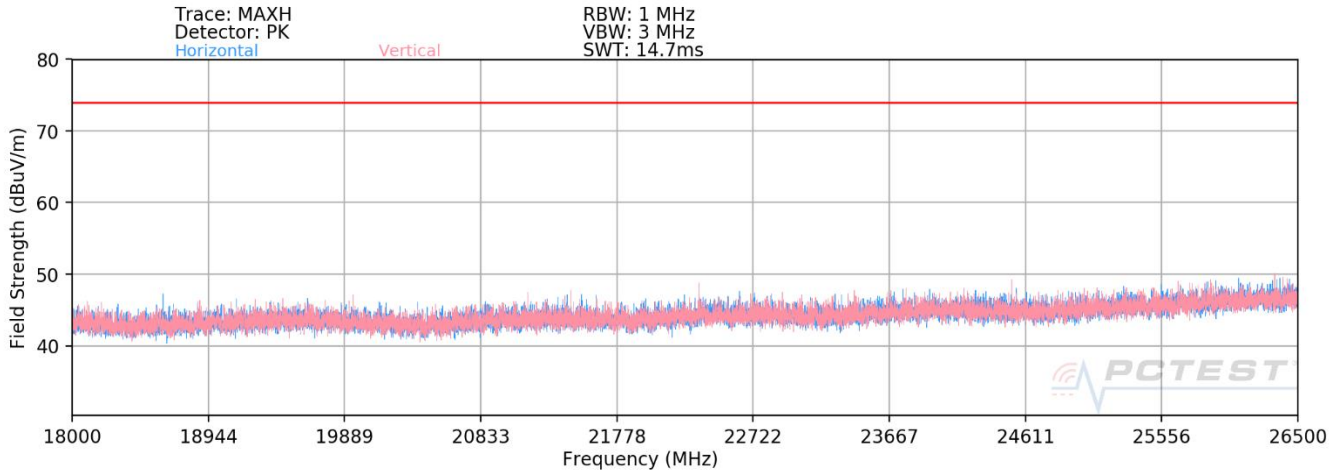
**Plot 7-583. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones) – Closed**



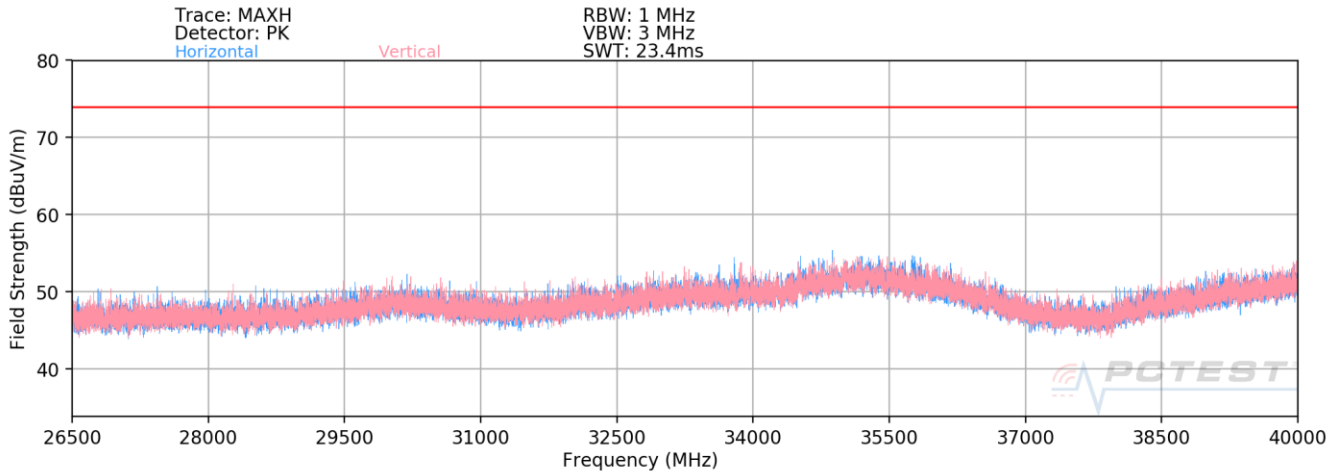
**Plot 7-584. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones) – Closed**

<p>FCC ID: A3LSMF711U</p>	<p><b>PCTEST</b> Proud to be part of element</p>	<p><b>MEASUREMENT REPORT (CERTIFICATION)</b></p>		<p>Approved by: Technical Manager</p>
<p>Test Report S/N: 1M2104070032-15.A3L</p>	<p>Test Dates: 04/12/2021 – 06/04/2021</p>	<p>EUT Type: Portable Handset</p>	<p>Page 388 of 413</p>	


## MIMO Radiated Spurious Emissions Measurements (Above 18GHz) – Q

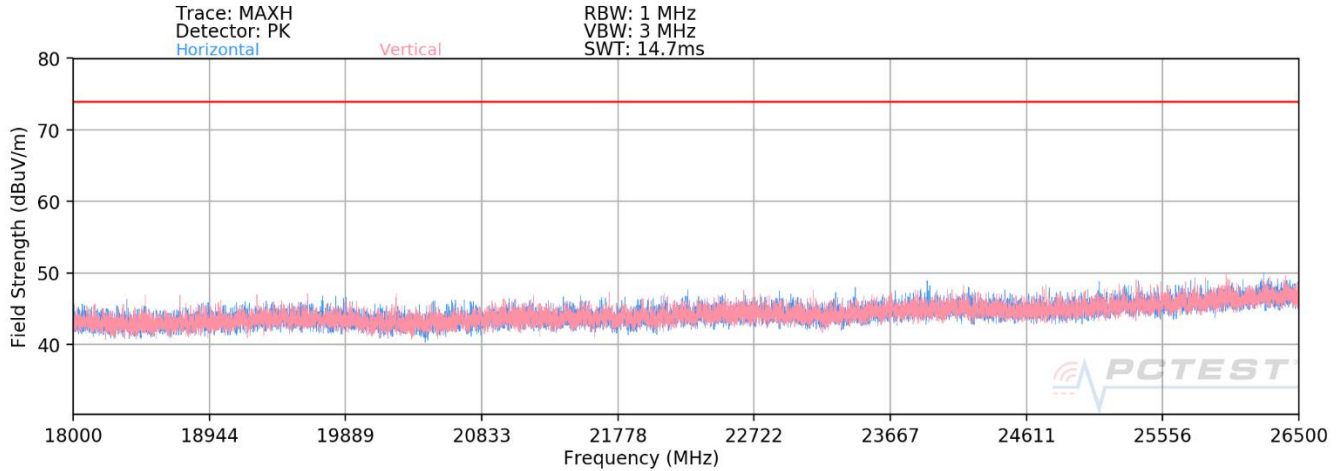


**Plot 7-585. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones) – Open**

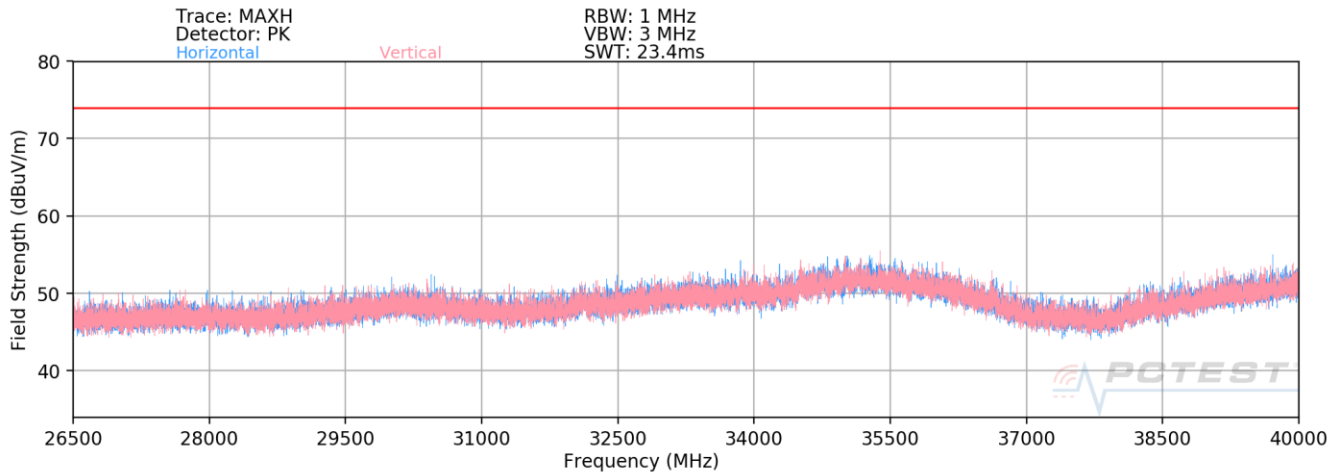


**Plot 7-586. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones) – Open**

FCC ID: A3LSMF711U	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 389 of 413



**Plot 7-587. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax - 242 Tones) - Closed**



**Plot 7-588. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones) - Closed**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 390 of 413	

## MIMO Radiated Spurious Emission Measurements (242 Tones) – Q

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

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-76.59	19.96	0.00	50.37	68.20	-17.83
* 15540.00	Average	H	-	-	-88.63	29.65	0.00	48.02	53.98	-5.96
* 15540.00	Peak	H	-	-	-77.03	29.65	0.00	59.62	73.98	-14.36
* 20720.00	Average	H	-	-	-66.55	4.48	-9.54	35.39	53.98	-18.59
* 20720.00	Peak	H	-	-	-56.80	4.48	-9.54	45.14	73.98	-28.84
25900.00	Peak	H	-	-	-55.01	6.92	-9.54	49.36	68.20	-18.84

Table 7-131. Radiated Measurements MIMO (242 Tones) – Open

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-77.03	20.91	0.00	50.88	68.20	-17.32
* 15600.00	Average	H	-	-	-90.23	28.90	0.00	45.67	53.98	-8.31
* 15600.00	Peak	H	-	-	-78.11	28.90	0.00	57.79	73.98	-16.19
* 20800.00	Average	H	-	-	-66.20	4.88	-9.54	36.14	53.98	-17.84
* 20800.00	Peak	H	-	-	-56.15	4.88	-9.54	46.19	73.98	-27.79
26000.00	Peak	H	-	-	-56.31	7.10	-9.54	48.25	68.20	-19.95

Table 7-132. Radiated Measurements MIMO (242 Tones) – Open

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 391 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-76.56	21.04	0.00	51.48	68.20	-16.72
* 15720.00	Average	H	-	-	-88.64	29.41	0.00	47.77	53.98	-6.21
* 15720.00	Peak	H	-	-	-77.11	29.41	0.00	59.30	73.98	-14.68
* 20960.00	Average	H	-	-	-66.75	5.01	-9.54	35.71	53.98	-18.27
* 20960.00	Peak	H	-	-	-56.19	5.01	-9.54	46.28	73.98	-27.70
26200.00	Peak	H	-	-	-55.12	6.99	-9.54	49.32	68.20	-18.88

**Table 7-133. Radiated Measurements MIMO (242 Tones) – Open**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-76.19	20.61	0.00	51.42	68.20	-16.78
* 15780.00	Average	H	-	-	-89.64	28.91	0.00	46.27	53.98	-7.71
* 15780.00	Peak	H	-	-	-74.22	28.91	0.00	61.69	73.98	-12.29
* 21040.00	Average	H	-	-	-66.20	4.89	-9.54	36.14	53.98	-17.84
* 21040.00	Peak	H	-	-	-55.16	4.89	-9.54	47.18	73.98	-26.80
26300.00	Peak	H	-	-	-54.81	7.06	-9.54	49.71	68.20	-18.49

**Table 7-134. Radiated Measurements MIMO (242 Tones) – Open**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 392 of 413



Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-77.56	20.73	0.00	50.17	68.20	-18.03
* 15840.00	Average	H	-	-	-89.43	29.02	0.00	46.59	53.98	-7.39
* 15840.00	Peak	H	-	-	-76.23	29.02	0.00	59.79	73.98	-14.19
* 21120.00	Average	H	-	-	-66.34	5.08	-9.54	36.21	53.98	-17.77
* 21120.00	Peak	H	-	-	-56.53	5.08	-9.54	46.01	73.98	-27.97
26400.00	Peak	H	-	-	-54.11	7.43	-9.54	50.78	68.20	-17.42

**Table 7-135. Radiated Measurements MIMO (242 Tones) – Open**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-87.23	20.77	0.00	40.54	53.98	-13.44
* 10640.00	Peak	H	-	-	-74.62	20.77	0.00	53.15	73.98	-20.83
* 15960.00	Average	H	-	-	-89.22	29.34	0.00	47.12	53.98	-6.86
* 15960.00	Peak	H	-	-	-73.64	29.34	0.00	62.70	73.98	-11.28
* 21280.00	Average	H	-	-	-66.33	5.14	-9.54	36.26	53.98	-17.72
* 21280.00	Peak	H	-	-	-56.52	5.14	-9.54	46.07	73.98	-27.91
26600.00	Peak	H	-	-	-55.86	7.21	-9.54	48.81	68.20	-19.39

**Table 7-136. Radiated Measurements MIMO (242 Tones) – Open**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 393 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-89.65	21.12	0.00	38.47	53.98	-15.51
* 11000.00	Peak	H	-	-	-74.48	21.12	0.00	53.64	73.98	-20.34
16500.00	Peak	H	-	-	-75.26	30.54	0.00	62.28	68.20	-5.92
22000.00	Peak	H	-	-	-55.98	5.16	-9.54	46.63	68.20	-21.57
27500.00	Peak	H	-	-	-56.01	7.69	-9.54	49.15	68.20	-19.05

**Table 7-137. Radiated Measurements MIMO (242 Tones) – Open**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-89.01	21.45	0.00	39.44	53.98	-14.54
* 11200.00	Peak	H	-	-	-75.63	21.45	0.00	52.82	73.98	-21.16
16800.00	Peak	H	-	-	-77.23	29.69	0.00	59.46	68.20	-8.74
* 22400.00	Average	H	-	-	-66.00	5.45	-9.54	36.91	53.98	-17.07
* 22400.00	Peak	H	-	-	-55.07	5.45	-9.54	47.84	73.98	-26.14
28000.00	Peak	H	-	-	-55.58	7.97	-9.54	49.85	68.20	-18.35

**Table 7-138. Radiated Measurements MIMO (242 Tones) – Open**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 394 of 413

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-89.56	22.42	0.00	39.86	53.98	-14.12
* 11440.00	Peak	H	-	-	-76.48	22.42	0.00	52.94	73.98	-21.04
17160.00	Peak	H	-	-	-77.23	30.42	0.00	60.19	68.20	-8.01
* 22880.00	Average	H	-	-	-66.62	5.43	-9.54	36.27	53.98	-17.71
* 22880.00	Peak	H	-	-	-54.92	5.43	-9.54	47.96	73.98	-26.02
28600.00	Peak	H	-	-	-55.90	8.29	-9.54	49.85	68.20	-18.35

**Table 7-139. Radiated Measurements MIMO (242 Tones) – Open**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-88.46	22.78	0.00	41.32	53.98	-12.66
* 11490.00	Peak	H	-	-	-76.23	22.78	0.00	53.55	73.98	-20.43
17235.00	Peak	H	-	-	-77.45	30.48	0.00	60.03	68.20	-8.17
* 22980.00	Average	H	-	-	-65.79	5.29	-9.54	36.96	53.98	-17.02
* 22980.00	Peak	H	-	-	-55.81	5.29	-9.54	46.95	73.98	-27.03
28725.00	Peak	H	-	-	-55.77	8.24	-9.54	49.93	68.20	-18.27

**Table 7-140. Radiated Measurements MIMO (242 Tones) – Open**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset	Page 395 of 413	

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-88.94	23.08	0.00	41.14	53.98	-12.84
* 11570.00	Peak	H	-	-	-74.91	23.08	0.00	55.17	73.98	-18.81
17355.00	Peak	H	-	-	-75.62	31.85	0.00	63.23	68.20	-4.97
23140.00	Peak	H	-	-	-55.00	5.34	-9.54	47.79	68.20	-20.41
28925.00	Peak	H	-	-	-55.56	8.48	-9.54	50.37	68.20	-17.83

**Table 7-141. Radiated Measurements MIMO (242 Tones) – Open**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 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	-	-	-87.37	22.91	0.00	42.54	53.98	-11.44
* 11650.00	Peak	H	-	-	-75.12	22.91	0.00	54.79	73.98	-19.19
17475.00	Peak	H	-	-	-73.81	30.58	0.00	63.77	68.20	-4.43
23300.00	Peak	H	-	-	-55.45	5.29	-9.54	47.29	68.20	-20.91
29125.00	Peak	H	-	-	-55.66	8.49	-9.54	50.29	68.20	-17.91

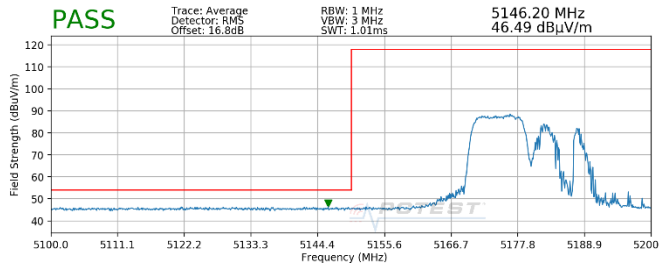
**Table 7-142. Radiated Measurements MIMO (242 Tones) – Open**

FCC ID: A3LSMF711U	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 396 of 413

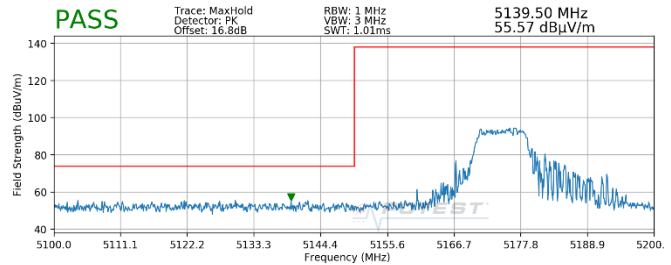
## 7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

### 106 Tones – N

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

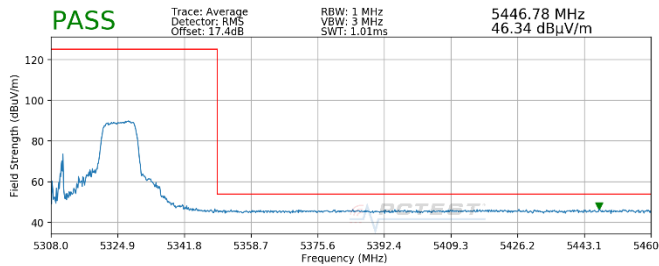


**Plot 7-589. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)**

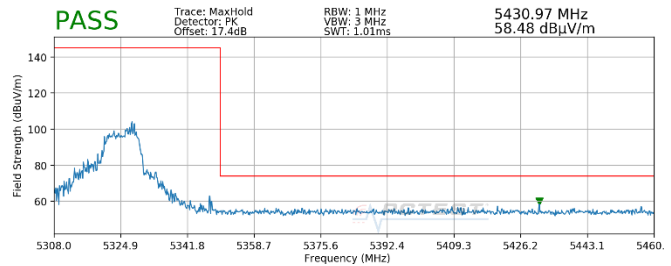


**Plot 7-590. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



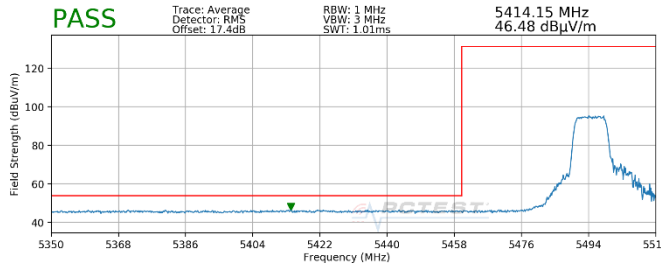
**Plot 7-591. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)**



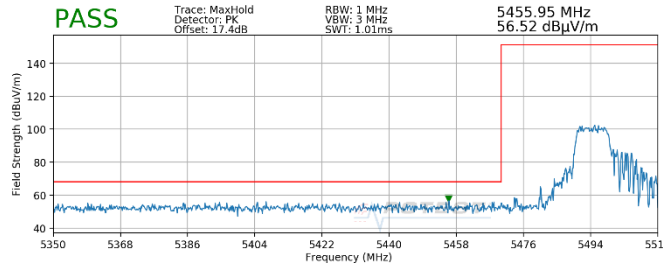
**Plot 7-592. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 397 of 413

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

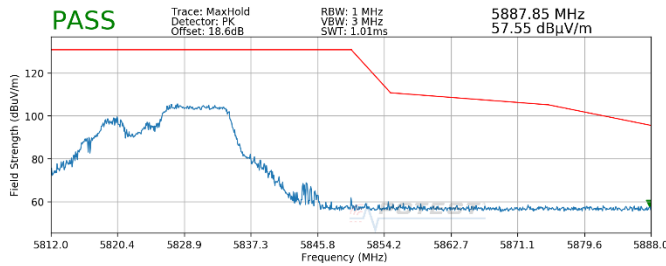


**Plot 7-593. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 106 Tones)**




**Plot 7-594. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

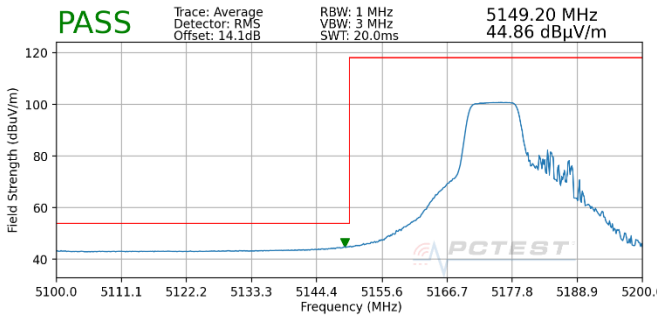


**Plot 7-595. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106 Tones)**

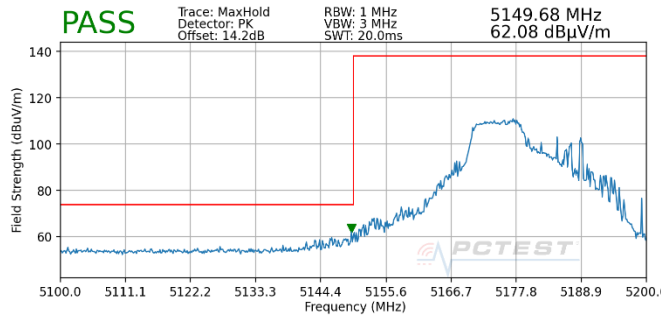
FCC ID: A3LSMF711U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## 106 Tones – Q

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

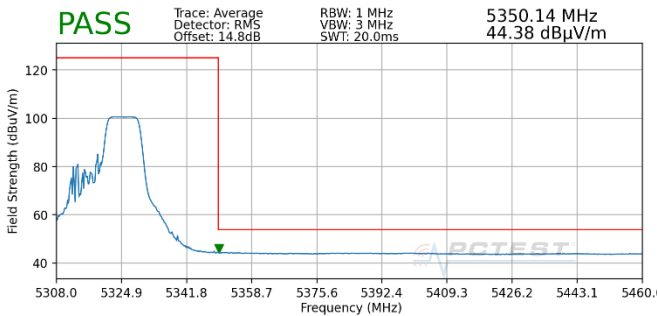


**Plot 7-596. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)**

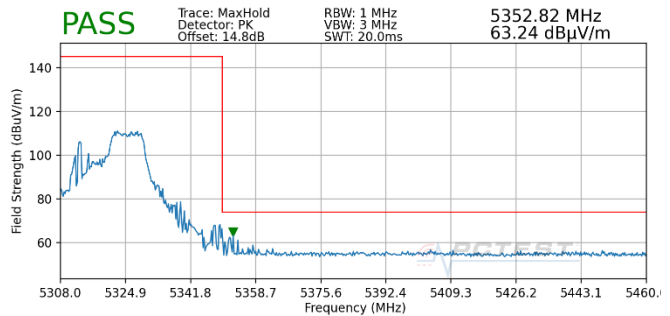


**Plot 7-597. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



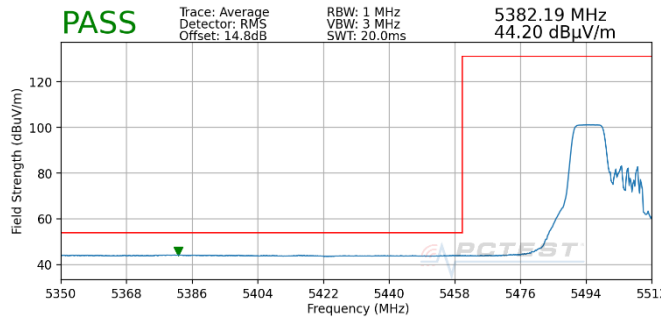
**Plot 7-598. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)**



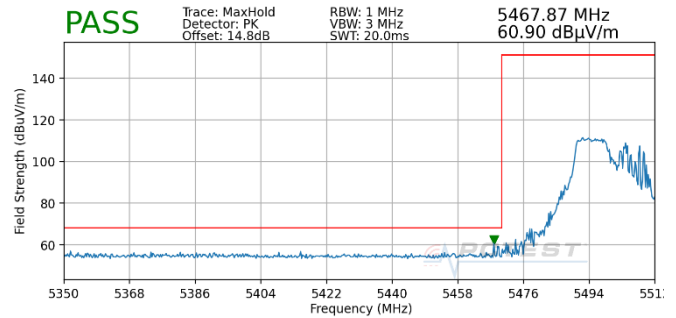
**Plot 7-599. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)**

FCC ID: A3LSMF711U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

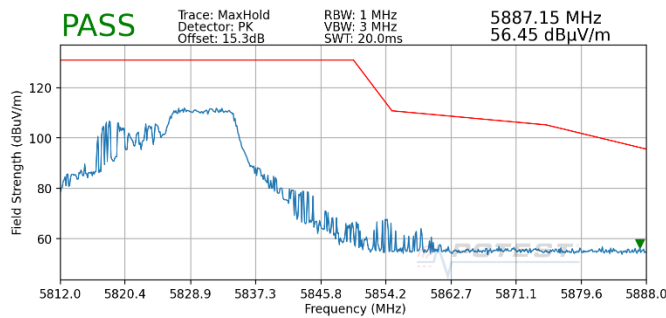


**Plot 7-600. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 106 Tones)**



**Plot 7-601. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165



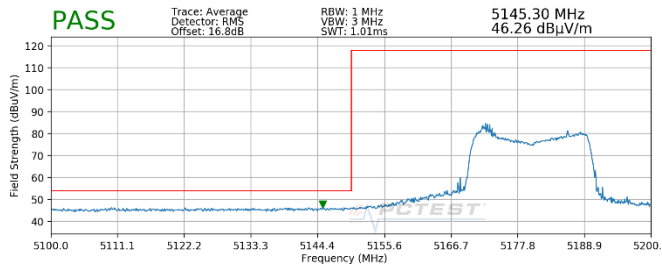
**Plot 7-602. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 400 of 413

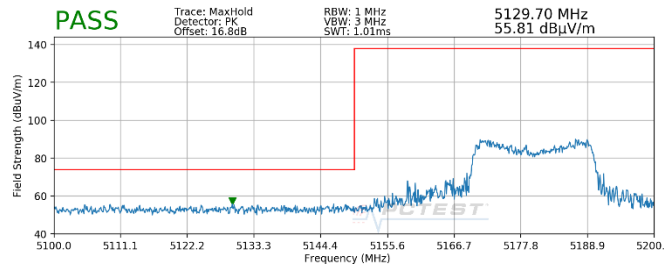


## 242 Tones – N

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

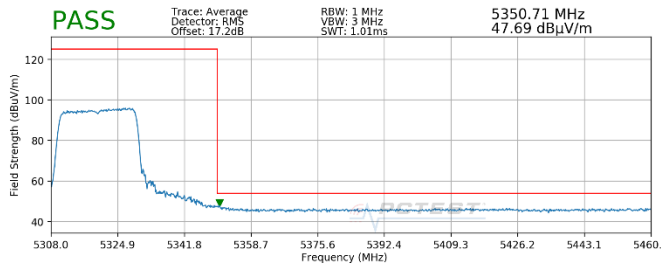


**Plot 7-603. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)**

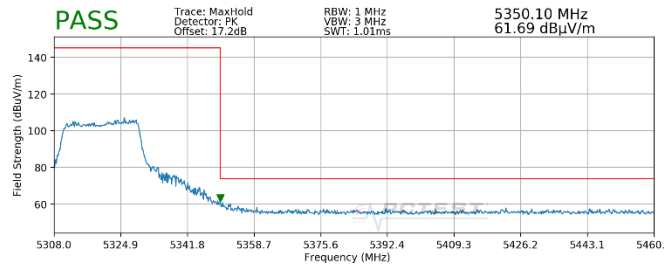


**Plot 7-604. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



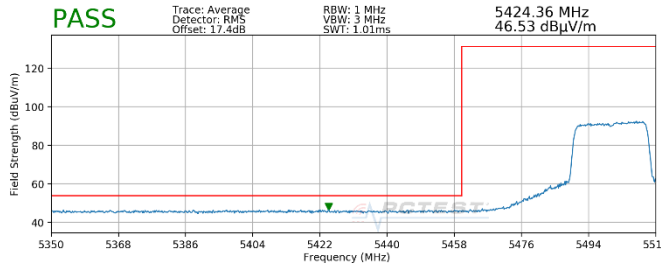
**Plot 7-605. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)**



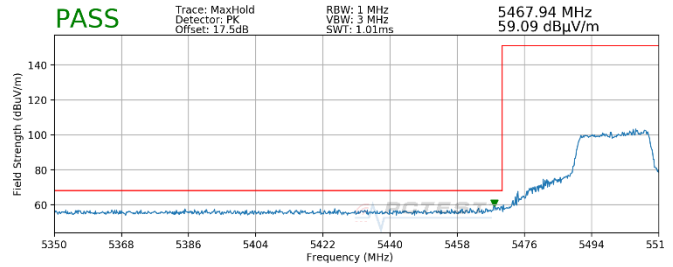
**Plot 7-606. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 401 of 413

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

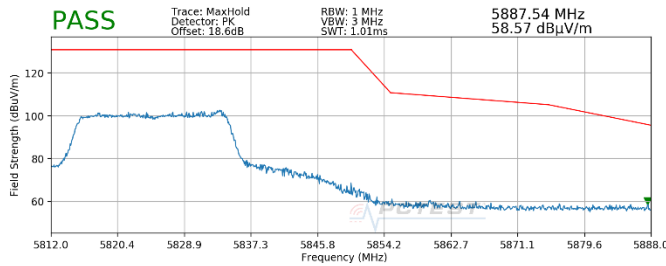


**Plot 7-607. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)**



**Plot 7-608. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

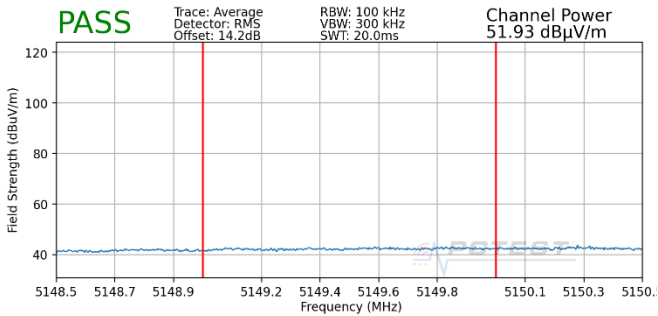


**Plot 7-609. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)**

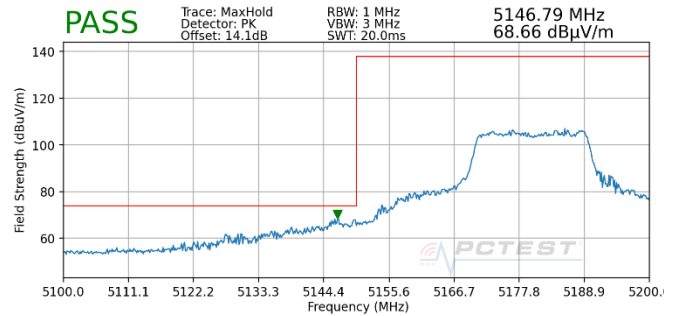
FCC ID: A3LSMF711U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 402 of 413

## 242 Tones – Q

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

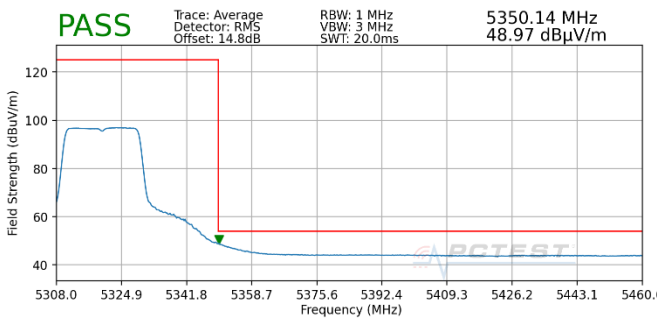


**Plot 7-610. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)**

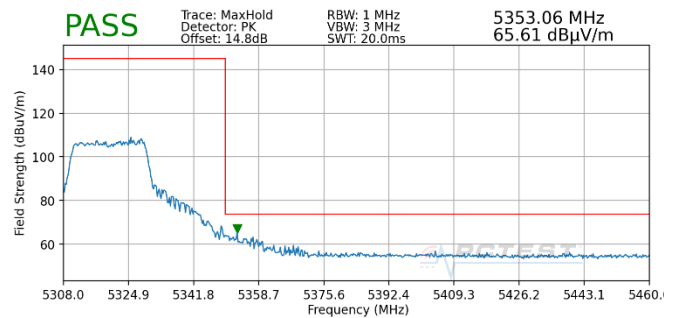


**Plot 7-611. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



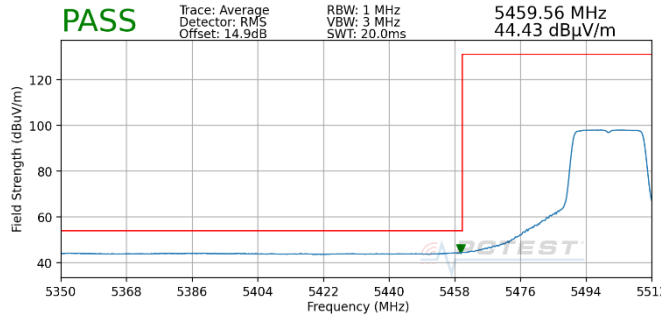
**Plot 7-612. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)**



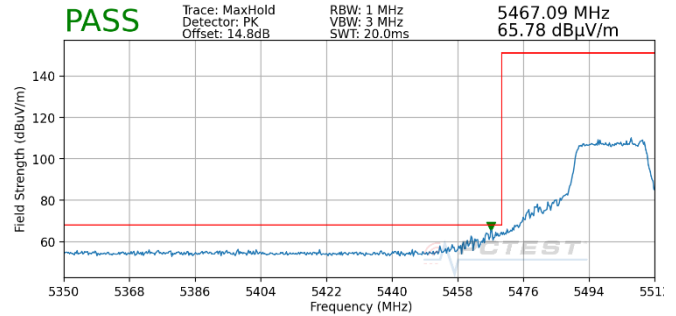
**Plot 7-613. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 403 of 413

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

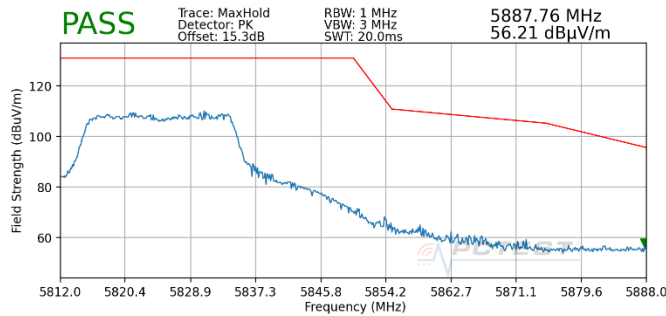


**Plot 7-614. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)**



**Plot 7-615. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165



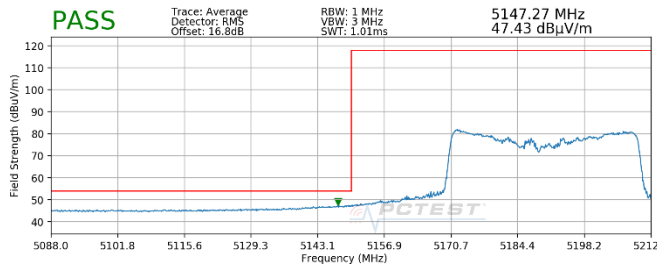
**Plot 7-616. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 404 of 413

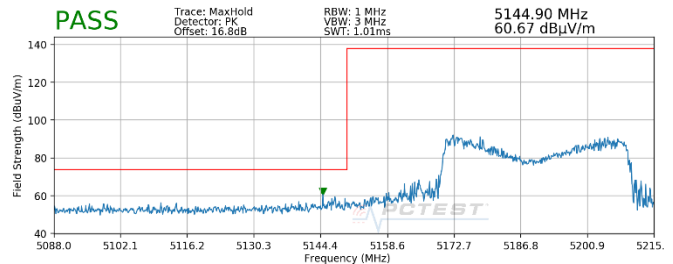
### 7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

#### 484 Tones – N

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

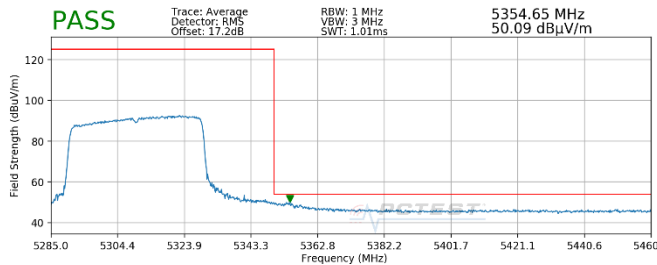


**Plot 7-617. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)**

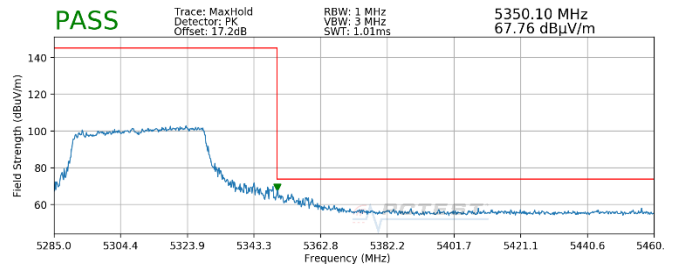


**Plot 7-618. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



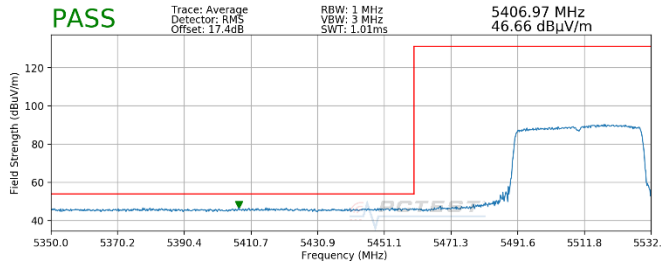
**Plot 7-619. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)**



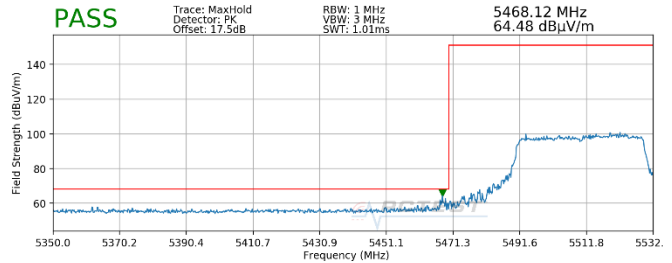
**Plot 7-620. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 405 of 413

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 65  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

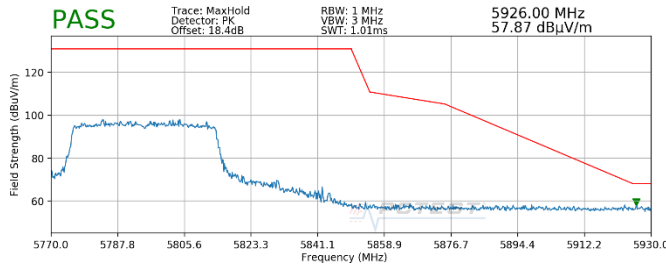


**Plot 7-621. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)**



**Plot 7-622. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 65  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159

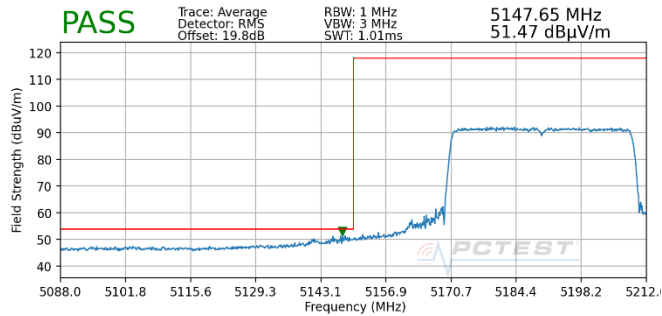


**Plot 7-623. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)**

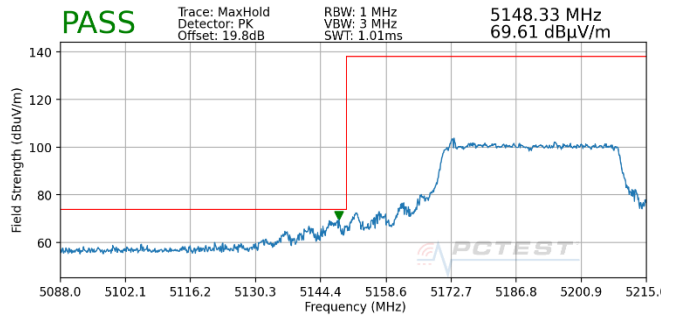
FCC ID: A3LSMF711U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 406 of 413

## 484 Tones – Q

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

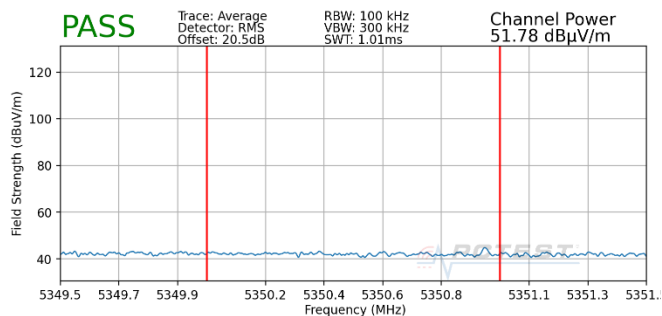


**Plot 7-624. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)**

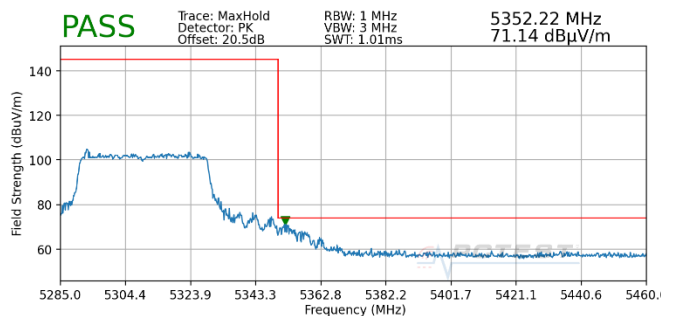


**Plot 7-625. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



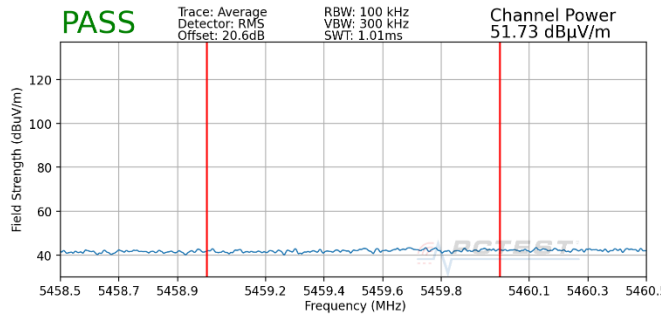
**Plot 7-626. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)**



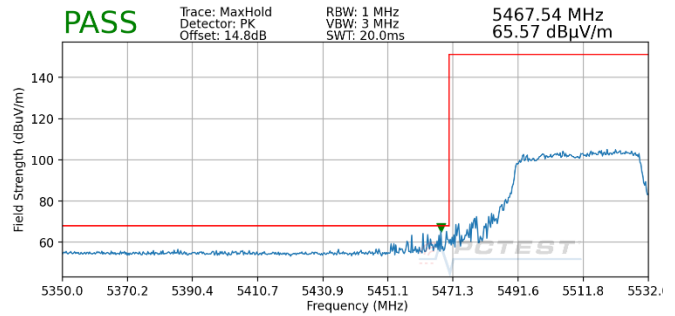
**Plot 7-627. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 407 of 413

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 65  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

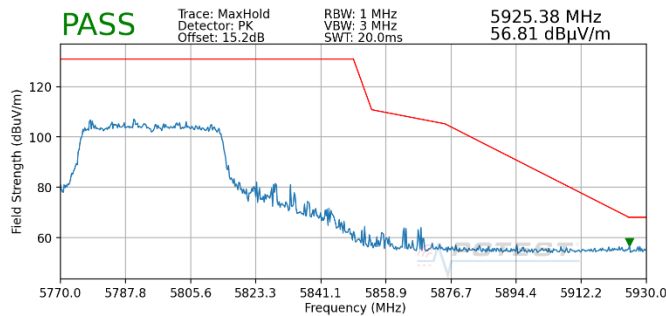


**Plot 7-628. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)**




**Plot 7-629. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 65  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159



**Plot 7-630. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 408 of 413

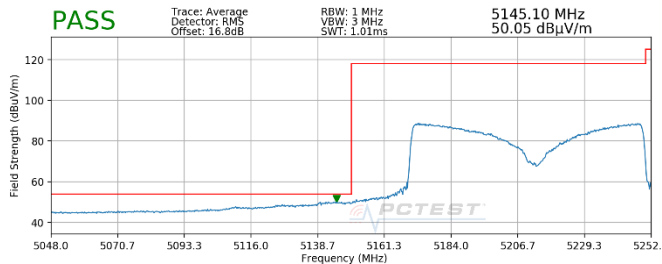


## 7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)

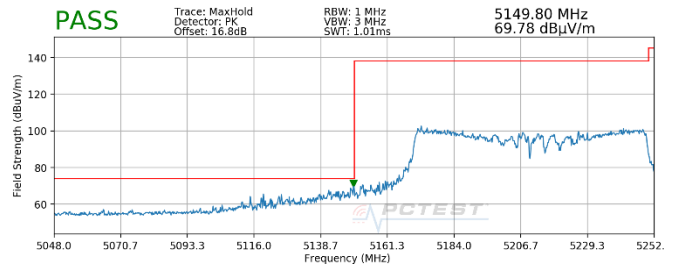
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

### 996 Tones – N

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

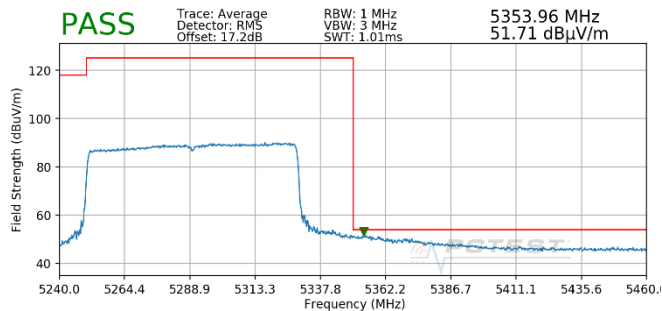


**Plot 7-631. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)**

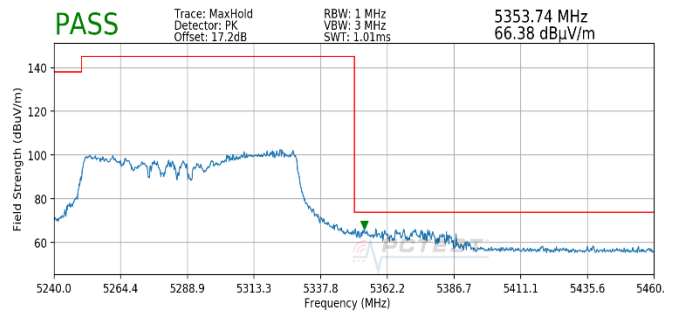


**Plot 7-632. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



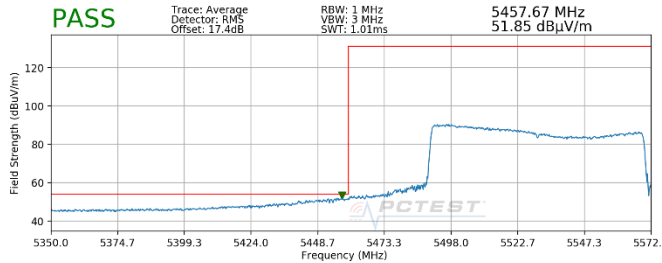
**Plot 7-633. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)**



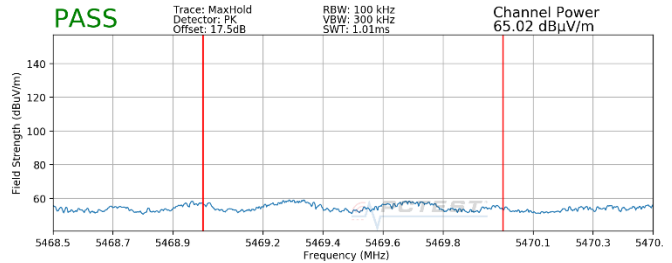
**Plot 7-634. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 409 of 413

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 67  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

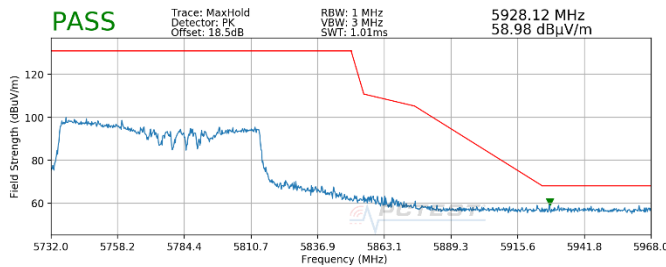


**Plot 7-635. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)**



**Plot 7-636. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 67  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155

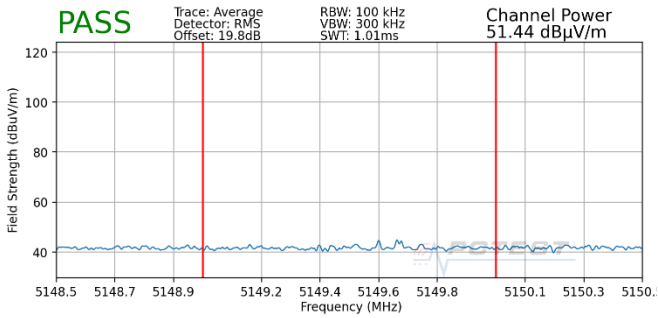


**Plot 7-637. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)**

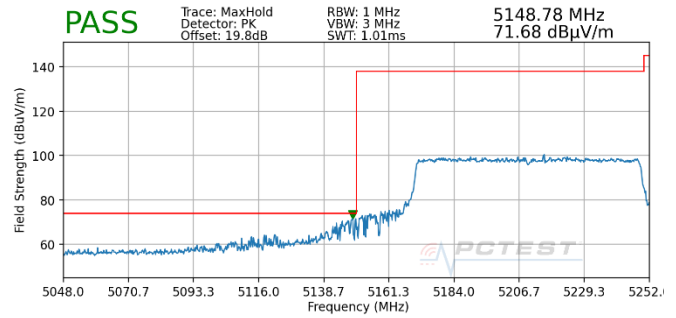
FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset	Page 410 of 413	

## 996 Tones – Q

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

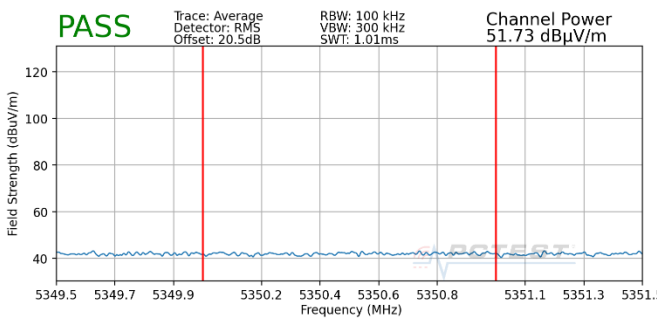


**Plot 7-638. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)**

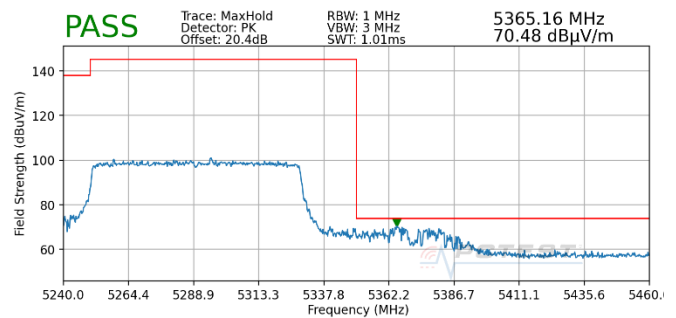


**Plot 7-639. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



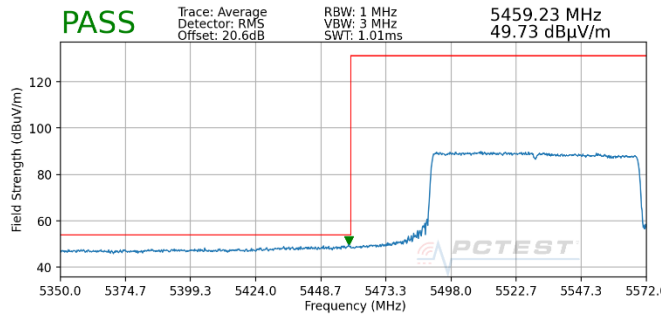
**Plot 7-640. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)**



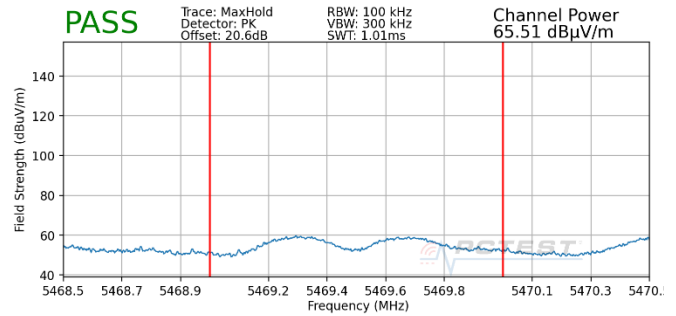
**Plot 7-641. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 67  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

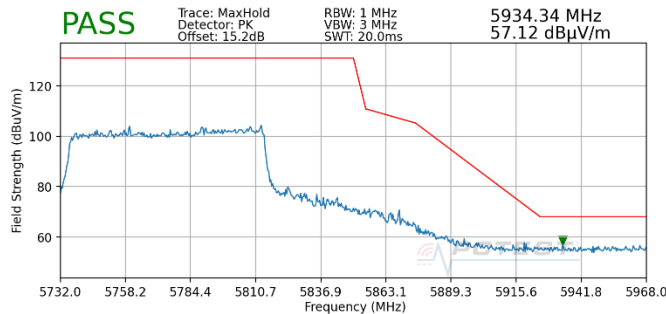


**Plot 7-642. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)**



**Plot 7-643. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 67  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155



**Plot 7-644. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)**

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 412 of 413

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF711U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: A3LSMF711U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104070032-15.A3L	<b>Test Dates:</b> 04/12/2021 – 06/04/2021	<b>EUT Type:</b> Portable Handset	Page 413 of 413	