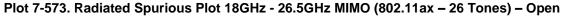
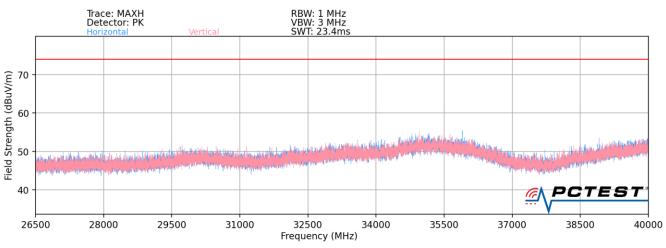


# MIMO Radiated Spurious Emissions Measurements (Above 18GHz) – Q

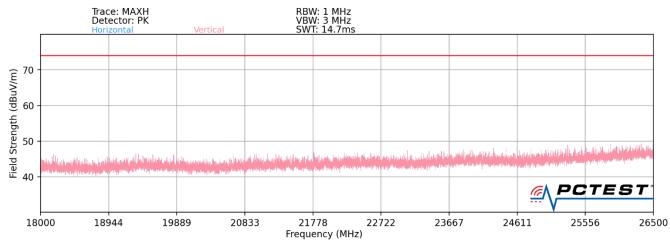


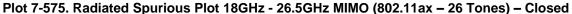


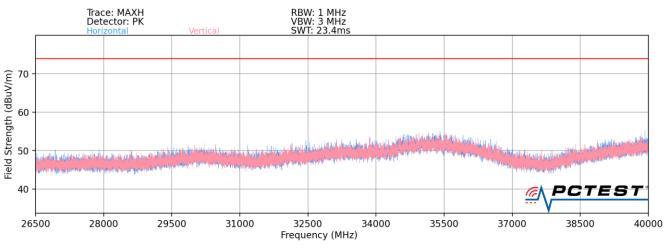
Plot 7-574. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 26 Tones) - Open

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 077 of 440	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	1 – 06/04/2021 Portable Handset		Page 377 of 413	
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Plot 7-576. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 26 Tones) - Closed

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 270 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 378 of 413
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# 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	н	-	-	-77.56	19.96	0.00	49.40	68.20	-18.80
*	15540.00	Average	н	-	-	-89.46	29.65	0.00	47.19	53.98	-6.79
*	15540.00	Peak	н	-	-	-75.65	29.65	0.00	61.00	73.98	-12.98
*	20720.00	Average	н	-	-	-66.66	4.48	-9.54	35.28	53.98	-18.70
*	20720.00	Peak	н	-	-	-56.30	4.48	-9.54	45.64	73.98	-28.34
	25900.00	Peak	н	-	-	-55.59	6.92	-9.54	48.78	68.20	-19.42

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

Worst Case Mode:	8
Worst Case Transfer Rate:	
RU Index:	
Distance of Measurements:	
Operating Frequency:	Ę
Channel:	4

802.11ax (20MHz BW)
MCS0
54
1 & 3 Meters
5200MHz
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	Н	-	-	-78.46	20.91	0.00	49.45	68.20	-18.75
*	15600.00	Average	Н	-	-	-90.56	28.90	0.00	45.34	53.98	-8.64
*	15600.00	Peak	Н	-	-	-77.64	28.90	0.00	58.26	73.98	-15.72
*	20800.00	Average	Н	-	-	-66.51	4.89	-9.54	35.83	53.98	-18.14
*	20800.00	Peak	Н	-	-	-56.75	4.89	-9.54	45.59	73.98	-28.39
	26000.00	Peak	Н	-	-	-55.15	7.11	-9.54	49.41	68.20	-18.79

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

FCC ID: A3LSMF711B	Proved to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Deep 270 of 442	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 379 of 413	
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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
Channel.	+0

	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	Н	-	-	-76.46	21.04	0.00	51.58	68.20	-16.62
*	15720.00	Average	Н	-	-	-89.65	29.41	0.00	46.76	53.98	-7.22
*	15720.00	Peak	Н	-	-	-77.49	29.41	0.00	58.92	73.98	-15.06
*	20960.00	Average	Н	-	-	-67.36	5.01	-9.54	35.11	53.98	-18.87
*	20960.00	Peak	Н	-	-	-56.53	5.01	-9.54	45.94	73.98	-28.04
	26200.00	Peak	Н	-	-	-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	Н	-	-	-78.11	20.61	0.00	49.50	68.20	-18.70
*	15780.00	Average	Н	-	-	-89.32	28.91	0.00	46.59	53.98	-7.39
*	15780.00	Peak	Н	-	-	-76.22	28.91	0.00	59.69	73.98	-14.29
*	21040.00	Average	Н	-	-	-66.85	4.88	-9.54	35.50	53.98	-18.48
*	21040.00	Peak	Н	-	-	-56.33	4.88	-9.54	46.01	73.98	-27.97
	26300.00	Peak	Н	-	-	-55.93	7.06	-9.54	48.59	68.20	-19.61

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dage 200 of 412			
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 380 of 413			
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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	Н	-	-	-77.46	20.73	0.00	50.27	68.20	-17.93
*	15840.00	Average	Н	-	-	-88.76	29.02	0.00	47.26	53.98	-6.72
*	15840.00	Peak	Н	-	-	-76.38	29.02	0.00	59.64	73.98	-14.34
*	21120.00	Average	Н	-	-	-67.05	5.08	-9.54	35.50	53.98	-18.48
*	21120.00	Peak	Н	-	-	-56.29	5.08	-9.54	46.25	73.98	-27.73
	26400.00	Peak	Н	-	-	-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	Н	-	-	-89.13	20.77	0.00	38.64	53.98	-15.34
*	10640.00	Peak	Н	-	-	-76.22	20.77	0.00	51.55	73.98	-22.43
*	15960.00	Average	Н	-	-	-89.97	29.34	0.00	46.37	53.98	-7.61
*	15960.00	Peak	Н	-	-	-77.11	29.34	0.00	59.23	73.98	-14.75
*	21280.00	Average	Н	-	-	-66.73	5.14	-9.54	35.87	53.98	-18.11
*	21280.00	Peak	Н	-	-	-56.49	5.14	-9.54	46.11	73.98	-27.87
	26600.00	Peak	Н	-	-	-55.35	7.21	-9.54	49.32	68.20	-18.88

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 201 of 442		
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 381 of 413		
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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	Н	-	-	-87.56	21.12	0.00	40.56	53.98	-13.42
*	11000.00	Peak	Н	-	-	-76.11	21.12	0.00	52.01	73.98	-21.97
	16500.00	Peak	Н	-	-	-77.16	30.54	0.00	60.38	68.20	-7.82
	22000.00	Peak	Н	-	-	-56.16	5.16	-9.54	46.45	68.20	-21.75
	27500.00	Peak	Н	-	-	-55.54	7.69	-9.54	49.61	68.20	-18.59

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

802.11ax (20MHz BW)
MCS0
54
1 & 3 Meters
5600MHz
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	Н	-	-	-89.79	21.45	0.00	38.66	53.98	-15.32
*	11200.00	Peak	Н	-	-	-76.94	21.45	0.00	51.51	73.98	-22.47
	16800.00	Peak	Н	-	-	-75.39	29.69	0.00	61.30	68.20	-6.90
*	22400.00	Average	Н	-	-	-66.16	5.45	-9.54	36.75	53.98	-17.23
*	22400.00	Peak	Н	-	-	-55.82	5.45	-9.54	47.08	73.98	-26.90
	28000.00	Peak	Н	-	-	-56.26	7.97	-9.54	49.16	68.20	-19.04

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

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 202 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 382 of 413
© 2021 PCTEST			V 9.0 02/01/2019



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	Н	-	-	-87.69	22.42	0.00	41.73	53.98	-12.25
*	11440.00	Peak	Н	-	-	-77.49	22.42	0.00	51.93	73.98	-22.05
	17160.00	Peak	Н	-	-	-78.11	30.42	0.00	59.31	68.20	-8.89
*	22880.00	Average	Н	-	-	-66.44	5.42	-9.54	36.45	53.98	-17.53
*	22880.00	Peak	Н	-	-	-55.53	5.42	-9.54	47.35	73.98	-26.63
	28600.00	Peak	Н	-	-	-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	Н	-	-	-88.97	22.78	0.00	40.81	53.98	-13.17
*	11490.00	Peak	Н	-	-	-76.32	22.78	0.00	53.46	73.98	-20.52
	17235.00	Peak	Н	-	-	-77.16	30.48	0.00	60.32	68.20	-7.88
*	22980.00	Average	Н	-	-	-66.40	5.29	-9.54	36.35	53.98	-17.63
*	22980.00	Peak	Н	-	-	-55.74	5.29	-9.54	47.01	73.98	-26.97
	28725.00	Peak	Н	-	-	-55.21	8.24	-9.54	50.48	68.20	-17.72

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 202 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 383 of 413
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802.11ax (20MHz BW)
MCS0
54
1 & 3 Meters
5785MHz
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	Н	-	-	-88.64	23.08	0.00	41.44	53.98	-12.54
*	11570.00	Peak	Н	-	-	-76.49	23.08	0.00	53.59	73.98	-20.39
	17355.00	Peak	Н	-	-	-75.73	31.85	0.00	63.12	68.20	-5.08
	23140.00	Peak	Н	-	-	-55.61	5.34	-9.54	47.18	68.20	-21.02
	28925.00	Peak	Н	-	-	-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:MCS0RU Index:54Distance of Measurements:1 & 3 MetersOperating Frequency:5825MHzChannel:165

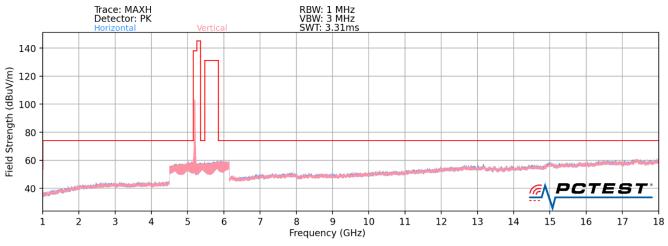
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	Н	-	-	-89.67	22.91	0.00	40.24	53.98	-13.74
*	11650.00	Peak	Н	-	-	-76.83	22.91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

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

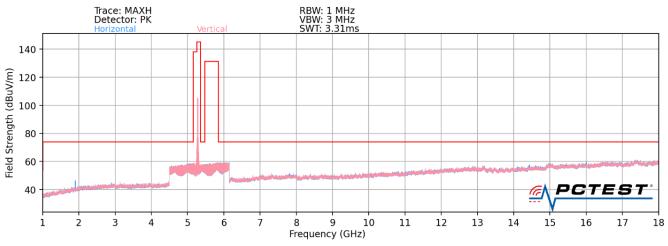
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 204 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 384 of 413
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# 242 Tones – Q



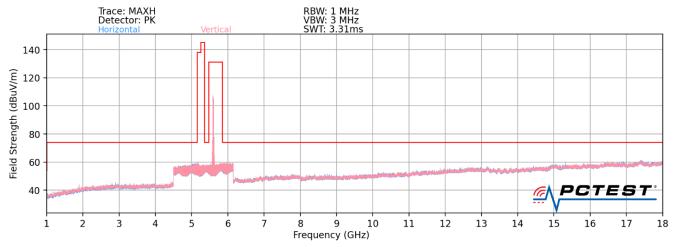
Plot 7-577. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U1 Ch. 40 - 242 Tones) - Open



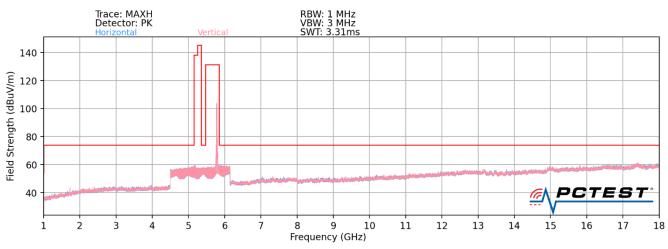
Plot 7-578. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U2A Ch. 56 - 242 Tones) - Open

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 205 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 385 of 413
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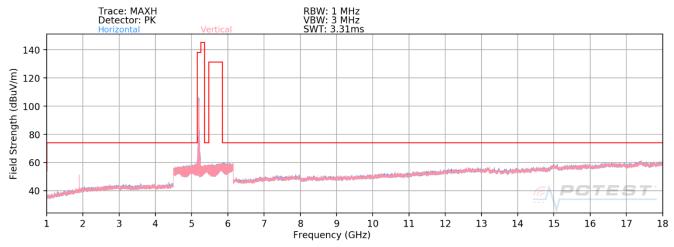




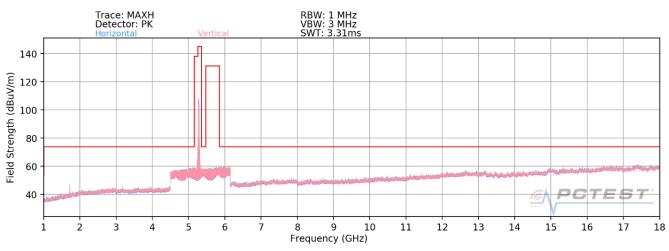
Plot 7-580. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U3 Ch. 157 - 242 Tones) - Open

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 296 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 386 of 413
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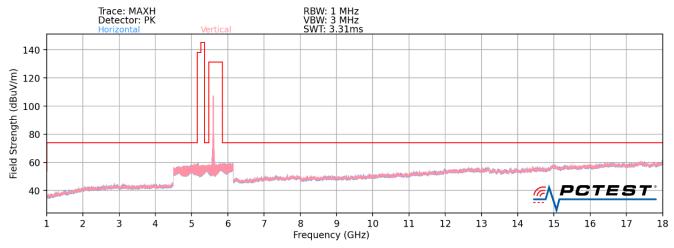




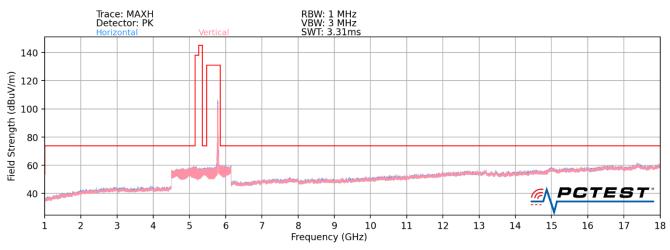
Plot 7-582. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) – Closed

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dega 207 of 442	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 387 of 413	
2021 PCTEST V 9.0 02/01/2019					





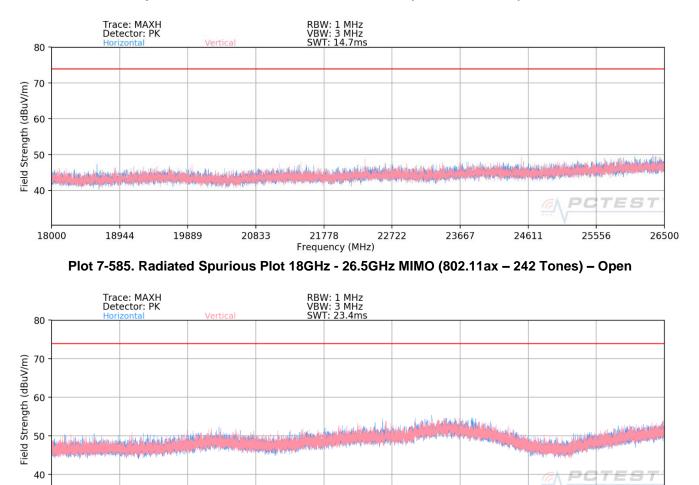




Plot 7-584. Radiated Spurious Plot above 1GHz MIMO (802.11ax - U3 Ch. 157 - 242 Tones) - Closed

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 288 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 388 of 413
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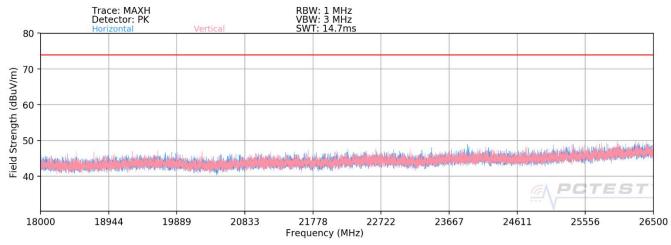
# MIMO Radiated Spurious Emissions Measurements (Above 18GHz) – Q

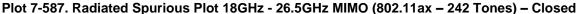
Plot 7-586. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones) - Open

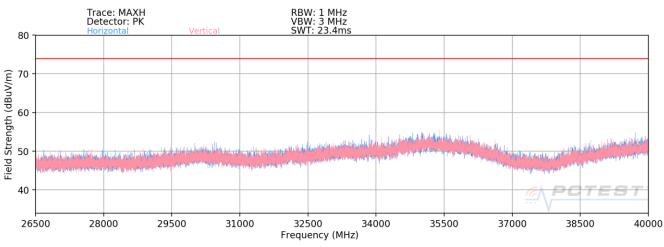
Frequency (MHz)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Dage 200 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 389 of 413
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Plot 7-588. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones) - Closed

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 200 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 390 of 413
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# 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	Н	-	-	-76.59	19.96	0.00	50.37	68.20	-17.83
*	15540.00	Average	Н	-	-	-88.63	29.65	0.00	48.02	53.98	-5.96
*	15540.00	Peak	Н	-	-	-77.03	29.65	0.00	59.62	73.98	-14.36
*	20720.00	Average	Н	-	-	-66.55	4.48	-9.54	35.39	53.98	-18.59
*	20720.00	Peak	Н	-	-	-56.80	4.48	-9.54	45.14	73.98	-28.84
	25900.00	Peak	Н	-	-	-55.01	6.92	-9.54	49.36	68.20	-18.84

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

Worst Case Mode:	
Worst Case Transfer Rate:	
RU Index:	
Distance of Measurements:	_
Operating Frequency:	Ę
Channel:	4

802.11ax (20MHz BW)
MCS0
61
1 & 3 Meters
5200MHz
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	Н	-	-	-77.03	20.91	0.00	50.88	68.20	-17.32
*	15600.00	Average	Н	-	-	-90.23	28.90	0.00	45.67	53.98	-8.31
*	15600.00	Peak	Н	-	-	-78.11	28.90	0.00	57.79	73.98	-16.19
*	20800.00	Average	Н	-	-	-66.20	4.88	-9.54	36.14	53.98	-17.84
*	20800.00	Peak	Н	-	-	-56.15	4.88	-9.54	46.19	73.98	-27.79
	26000.00	Peak	Н	-	-	-56.31	7.10	-9.54	48.25	68.20	-19.95

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 201 of 412	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 391 of 413	
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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	Н	-	-	-76.56	21.04	0.00	51.48	68.20	-16.72
*	15720.00	Average	Н	-	-	-88.64	29.41	0.00	47.77	53.98	-6.21
*	15720.00	Peak	Н	-	-	-77.11	29.41	0.00	59.30	73.98	-14.68
*	20960.00	Average	Н	-	-	-66.75	5.01	-9.54	35.71	53.98	-18.27
*	20960.00	Peak	Н	-	-	-56.19	5.01	-9.54	46.28	73.98	-27.70
	26200.00	Peak	Н	-	-	-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	Н	-	-	-76.19	20.61	0.00	51.42	68.20	-16.78
15780.00	Average	Н	-	-	-89.64	28.91	0.00	46.27	53.98	-7.71
15780.00	Peak	Н	-	-	-74.22	28.91	0.00	61.69	73.98	-12.29
21040.00	Average	Н	-	-	-66.20	4.89	-9.54	36.14	53.98	-17.84
21040.00	Peak	Н	-	-	-55.16	4.89	-9.54	47.18	73.98	-26.80
26300.00	Peak	Н	-	-	-54.81	7.06	-9.54	49.71	68.20	-18.49
	[MHz] 10520.00 15780.00 15780.00 21040.00 21040.00	[MHz]         Detector           10520.00         Peak           15780.00         Average           15780.00         Peak           21040.00         Average           21040.00         Peak	[MHz]         Detector         [H/V]           10520.00         Peak         H           15780.00         Average         H           15780.00         Peak         H           21040.00         Average         H           21040.00         Peak         H	[MHz]         Detector         [H/V]         Height [cm]           10520.00         Peak         H         -           15780.00         Average         H         -           15780.00         Peak         H         -           15780.00         Peak         H         -           21040.00         Average         H         -           21040.00         Peak         H         -	Frequency [MHz]DetectorAnt. Pol. [H/V]Antenna Height [cm]Azimuth [degree]10520.00PeakH15780.00AverageH15780.00PeakH21040.00AverageH21040.00PeakH21040.00PeakH	Frequency [MHz]DetectorAnt. Pol. [H/V]Antenna Height [cm]Azimuth [degree]Analyzer Level [dBm]10520.00PeakH76.1915780.00AverageH89.6415780.00PeakH74.2221040.00AverageH66.2021040.00PeakH55.16	Frequency [MHz]DetectorAnt. Pol. [H/V]Antenna Height [cm]Azimuth [degree]Analyzer Level [dBm]AFCL [dB/]10520.00PeakH76.1920.6115780.00AverageH89.6428.9115780.00PeakH74.2228.9121040.00AverageH66.204.8921040.00PeakH66.204.89	Frequency [MHz]         Detector         Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Analyzer Level [dBm]         AFCL [dB/m]         Correction Factor [dB]           10520.00         Peak         H         -         -76.19         20.61         0.00           15780.00         Average         H         -         -         -89.64         28.91         0.00           15780.00         Peak         H         -         -         -74.22         28.91         0.00           15780.00         Peak         H         -         -         -74.22         28.91         0.00           15780.00         Average         H         -         -         -66.20         4.89         -9.54           21040.00         Peak         H         -         -         -55.16         4.89         -9.54	Frequency [MHz]         Detector         Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Analyzer Level [dBm]         AFCL [dB/m]         Correction Factor [dB]         Strength [dBµV/m]           10520.00         Peak         H         -         -76.19         20.61         0.00         51.42           15780.00         Average         H         -         -         -89.64         28.91         0.00         46.27           15780.00         Peak         H         -         -         -74.22         28.91         0.00         61.69           21040.00         Average         H         -         -         -66.20         4.89         -9.54         36.14           21040.00         Peak         H         -         -         -65.16         4.89         -9.54         36.14	Frequency [MHz]         Detector         Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth (degree)         Analyzer Level [dBm]         AFCL [dBm]         Correction Factor [dB]         Strength [dBµV/m]         Limit [dBµV/m]           10520.00         Peak         H         -         -76.19         20.61         0.00         51.42         68.20           15780.00         Average         H         -         -         -89.64         28.91         0.00         46.27         53.98           15780.00         Peak         H         -         -         -74.22         28.91         0.00         61.69         73.98           21040.00         Average         H         -         -         -66.20         4.89         -9.54         36.14         53.98           21040.00         Peak         H         -         -         -66.20         4.89         -9.54         36.14         53.98           21040.00         Peak         H         -         -         -66.20         4.89         -9.54         36.14         53.98           21040.00         Peak         H         -         -         -         64.20         -         9.54         36.14         53.98

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

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 202 of 442	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 392 of 413	
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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	Н	-	-	-77.56	20.73	0.00	50.17	68.20	-18.03
*	15840.00	Average	Н	-	-	-89.43	29.02	0.00	46.59	53.98	-7.39
*	15840.00	Peak	Н	-	-	-76.23	29.02	0.00	59.79	73.98	-14.19
*	21120.00	Average	Н	-	-	-66.34	5.08	-9.54	36.21	53.98	-17.77
*	21120.00	Peak	Н	-	-	-56.53	5.08	-9.54	46.01	73.98	-27.97
	26400.00	Peak	Н	-	-	-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	Н	-	-	-87.23	20.77	0.00	40.54	53.98	-13.44
*	10640.00	Peak	Н	-	-	-74.62	20.77	0.00	53.15	73.98	-20.83
*	15960.00	Average	Н	-	-	-89.22	29.34	0.00	47.12	53.98	-6.86
*	15960.00	Peak	Н	-	-	-73.64	29.34	0.00	62.70	73.98	-11.28
*	21280.00	Average	Н	-	-	-66.33	5.14	-9.54	36.26	53.98	-17.72
*	21280.00	Peak	Н	-	-	-56.52	5.14	-9.54	46.07	73.98	-27.91
	26600.00	Peak	Н	-	-	-55.86	7.21	-9.54	48.81	68.20	-19.39

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 202 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 393 of 413
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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	Н	-	-	-89.65	21.12	0.00	38.47	53.98	-15.51
*	11000.00	Peak	Н	-	-	-74.48	21.12	0.00	53.64	73.98	-20.34
	16500.00	Peak	Н	-	-	-75.26	30.54	0.00	62.28	68.20	-5.92
	22000.00	Peak	Н	-	-	-55.98	5.16	-9.54	46.63	68.20	-21.57
	27500.00	Peak	Н	-	-	-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	Н	-	-	-89.01	21.45	0.00	39.44	53.98	-14.54
*	11200.00	Peak	Н	-	-	-75.63	21.45	0.00	52.82	73.98	-21.16
	16800.00	Peak	Н	-	-	-77.23	29.69	0.00	59.46	68.20	-8.74
*	22400.00	Average	Н	-	-	-66.00	5.45	-9.54	36.91	53.98	-17.07
*	22400.00	Peak	Н	-	-	-55.07	5.45	-9.54	47.84	73.98	-26.14
	28000.00	Peak	Н	-	-	-55.58	7.97	-9.54	49.85	68.20	-18.35

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dega 204 of 442	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 394 of 413	
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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	Н	-	-	-89.56	22.42	0.00	39.86	53.98	-14.12
*	11440.00	Peak	Н	-	-	-76.48	22.42	0.00	52.94	73.98	-21.04
	17160.00	Peak	Н	-	-	-77.23	30.42	0.00	60.19	68.20	-8.01
*	22880.00	Average	Н	-	-	-66.62	5.43	-9.54	36.27	53.98	-17.71
*	22880.00	Peak	Н	-	-	-54.92	5.43	-9.54	47.96	73.98	-26.02
	28600.00	Peak	Н	-	-	-55.90	8.29	-9.54	49.85	68.20	-18.35

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

02.11ax (20MHz BW)
MCS0
51
& 3 Meters
745MHz
49

	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	Н	-	-	-88.46	22.78	0.00	41.32	53.98	-12.66
*	11490.00	Peak	Н	-	-	-76.23	22.78	0.00	53.55	73.98	-20.43
	17235.00	Peak	Н	-	-	-77.45	30.48	0.00	60.03	68.20	-8.17
*	22980.00	Average	Н	-	-	-65.79	5.29	-9.54	36.96	53.98	-17.02
*	22980.00	Peak	Н	-	-	-55.81	5.29	-9.54	46.95	73.98	-27.03
	28725.00	Peak	Н	-	-	-55.77	8.24	-9.54	49.93	68.20	-18.27

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

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 205 of 412	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 395 of 413	
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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	Н	-	-	-88.94	23.08	0.00	41.14	53.98	-12.84
*	11570.00	Peak	Н	-	-	-74.91	23.08	0.00	55.17	73.98	-18.81
	17355.00	Peak	Н	-	-	-75.62	31.85	0.00	63.23	68.20	-4.97
	23140.00	Peak	Н	-	-	-55.00	5.34	-9.54	47.79	68.20	-20.41
	28925.00	Peak	Н	-	-	-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	Н	-	-	-87.37	22.91	0.00	42.54	53.98	-11.44
*	11650.00	Peak	Н	-	-	-75.12	22.91	0.00	54.79	73.98	-19.19
	17475.00	Peak	Н	-	-	-73.81	30.58	0.00	63.77	68.20	-4.43
	23300.00	Peak	Н	-	-	-55.45	5.29	-9.54	47.29	68.20	-20.91
	29125.00	Peak	Н	-	-	-55.66	8.49	-9.54	50.29	68.20	-17.91

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

FCC ID: A3LSMF711B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 396 of 413
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 396 01 413
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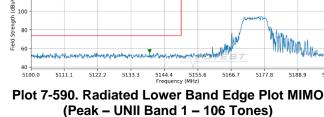
#### 7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

## 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)



RBW: 1 MHz VBW: 3 MHz SWT: 1.01m

PASS

140

€ 120

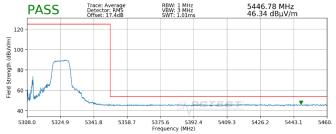
Trace: MaxHold Detector: PK Offset: 16.8dB

5139.50 MHz 55.57 dBµV/m

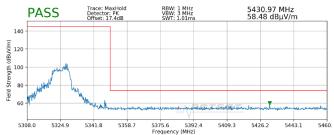
5200

Worst Case Mo Worst Case Tra **RU Index:** Distance of Me **Operating Freq** Channel:

ode:	802.11ax
ansfer Rate:	MCS0
	54
easurements:	3 Meters
quency:	5320MHz
	64



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

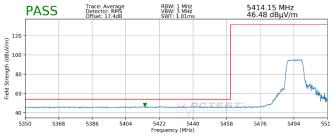


Plot 7-592. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)

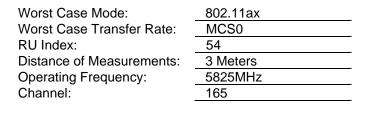
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 207 of 412
1M2104130035-13.A3L 04/12/2021 - 06/04/202		Portable Handset	Page 397 of 413
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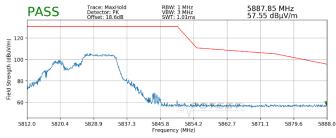


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

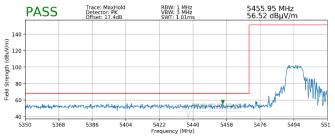








Plot 7-595. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106 Tones)

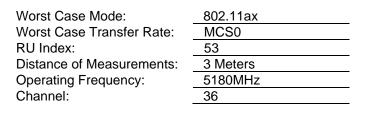


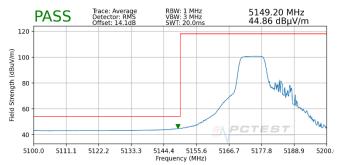
Plot 7-594. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 200 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 398 of 413
© 2021 PCTEST	·		V 9.0 02/01/2019

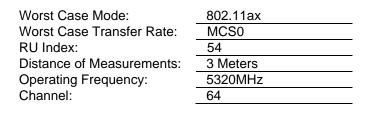


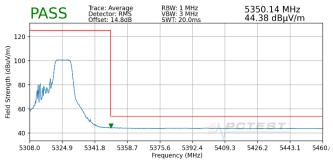
# 106 Tones – Q





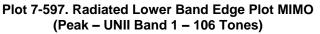
Plot 7-596. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)

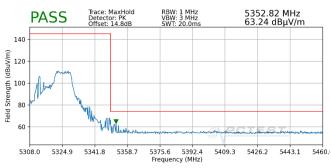




Plot 7-598. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)





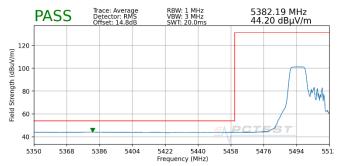


Plot 7-599. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)

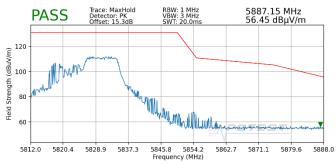
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 200 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 399 of 413
© 2021 PCTEST			V 9.0 02/01/2019



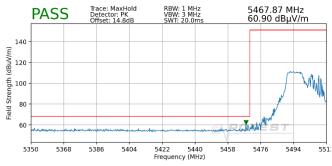
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100







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

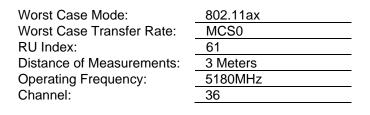


Plot 7-601. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 400 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 400 of 413
© 2021 PCTEST V 9.0 02/01/2019			



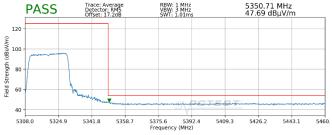
# 242 Tones – N



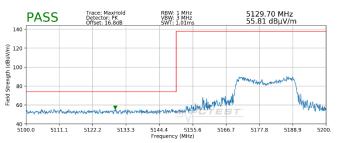




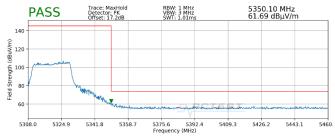
802.11ax
MCS0
61
3 Meters
5320MHz
64







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



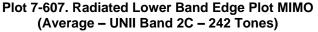
Plot 7-606. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

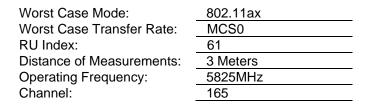
FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 401 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 401 of 413
© 2021 PCTEST				V 9.0 02/01/2019

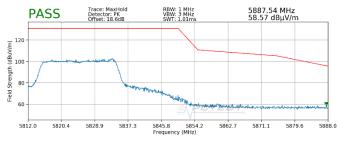


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

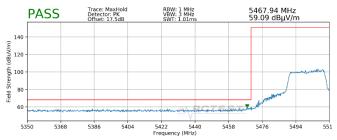








Plot 7-609. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

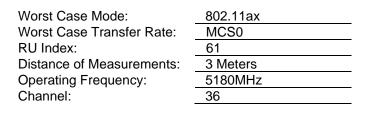


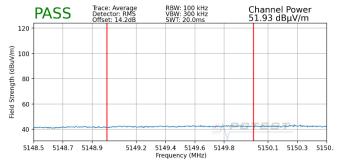
Plot 7-608. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 402 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 402 of 413
© 2021 PCTEST			V 9.0 02/01/2019

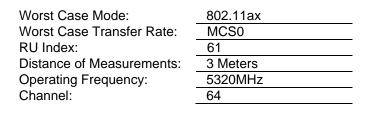


# 242 Tones – Q





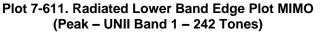






Plot 7-612. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)





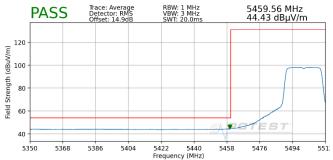


Plot 7-613. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 402 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 403 of 413
© 2021 PCTEST			V 9.0 02/01/2019

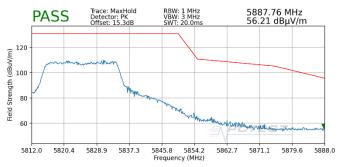


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

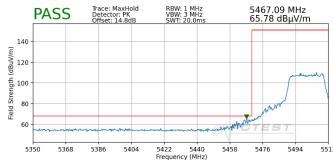


Plot 7-614. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)

802.11ax
MCS0
61
3 Meters
5825MHz
165



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



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

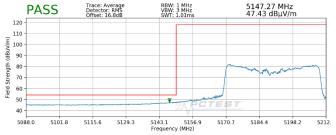
FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 404 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 404 of 413
© 2021 PCTEST			V 9.0 02/01/2019



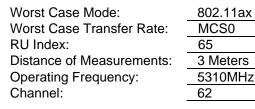
## 7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

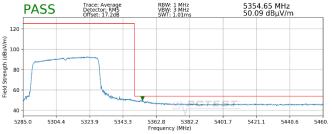
## 484 Tones – N

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

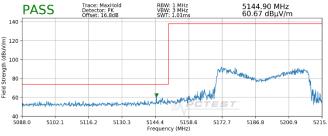


Plot 7-617. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

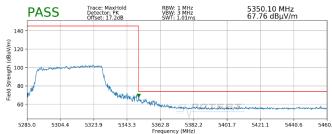




Plot 7-619. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



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

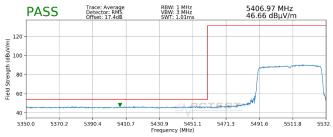


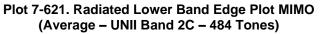
Plot 7-620. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 405 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 405 of 413
© 2021 PCTEST	•	·	V 9.0 02/01/2019

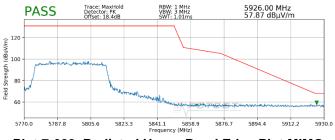


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

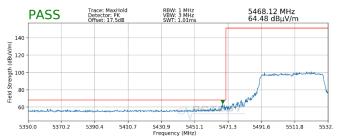




Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



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

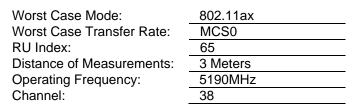


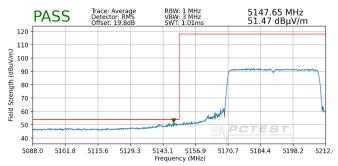
Plot 7-622. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 406 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 406 of 413
© 2021 PCTEST V 9.0 02/01/2019			

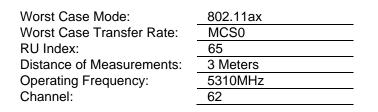


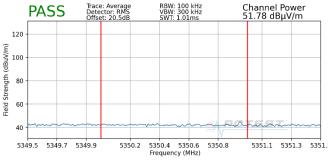
## 484 Tones – Q





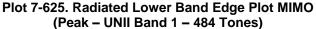












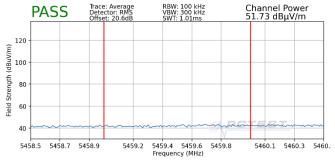




FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 407 of 413
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 407 01 413
© 2021 PCTEST	•		V 9.0 02/01/2019

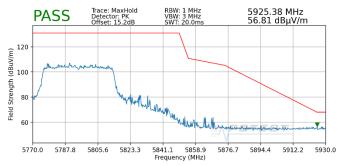


802.11ax
MCS0
65
3 Meters
5510MHz
102

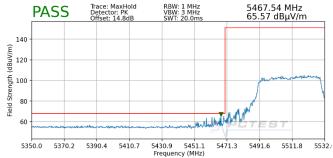




Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



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



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

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 409 of 442
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 408 of 413
© 2021 PCTEST			V 9.0 02/01/2019



## 7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

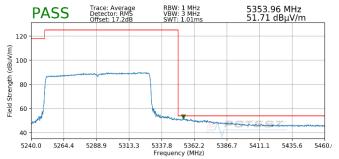
## 996 Tones – N

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

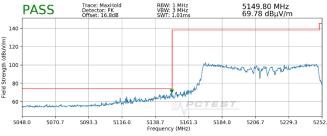


Plot 7-631. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

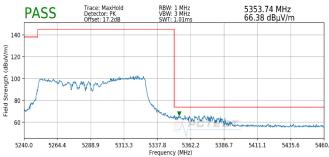
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58
·	



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



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

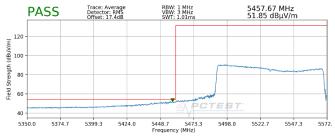


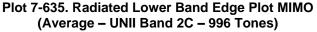
Plot 7-634. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

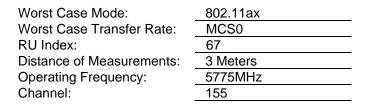
FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 400 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 409 of 413
© 2021 PCTEST			V 9.0 02/01/2019

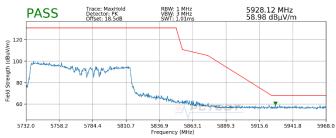


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

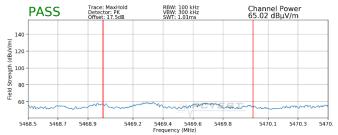








Plot 7-637. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

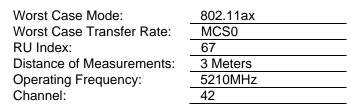


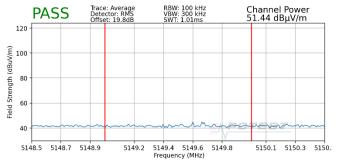
Plot 7-636. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 410 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 410 of 413
© 2021 PCTEST V 9.0 02/01/2019			

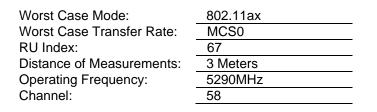


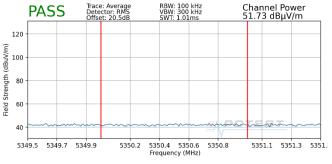
# 996 Tones – Q



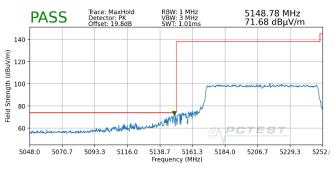




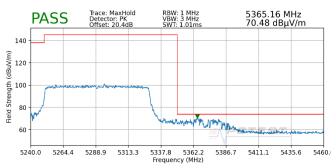








Plot 7-639. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

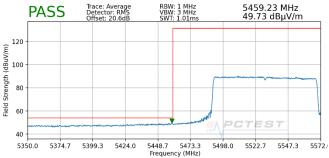


Plot 7-641. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

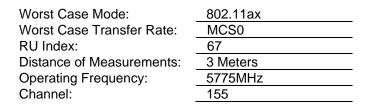
FCC ID: A3LSMF711B	Poul to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 411 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 411 of 413
© 2021 PCTEST			V 9.0 02/01/2019

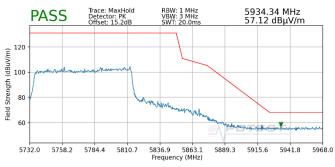


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

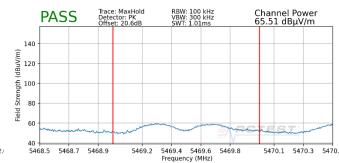








Plot 7-644. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)



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

FCC ID: A3LSMF711B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 412 of 412	
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 412 of 413	
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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: A3LSMF711B** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: A3LSMF711B	PCTEST <sup>®</sup> Proud to be part of <b>®</b> element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dame 412 of 412
1M2104130035-13.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 413 of 413
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