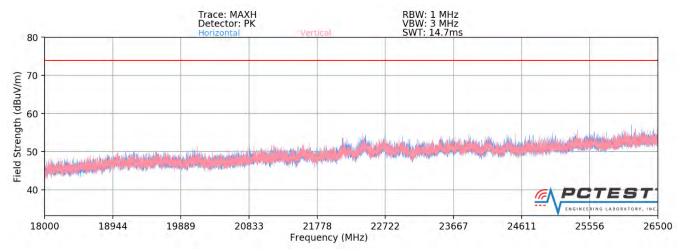
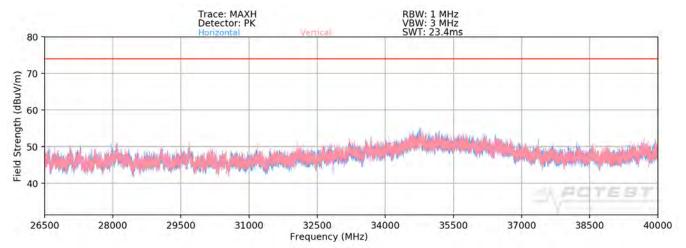


MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-305. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11ax - 242 Tones)



Plot 7-306. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones)

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MIMO Radiated Spurious Emission Measurements (242 Tones)

§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	-		-71.82	18.82	0.00	54.00	68.20	-14.20
*	15540.00	Average	Н	-	-	-85.51	28.27	0.00	49.76	53.98	-4.22
*	15540.00	Peak	Н	-	-	-74.02	28.27	0.00	61.25	73.98	-12.73
*	20720.00	Average	Н	-	-	-81.49	17.17	-9.54	33.14	53.98	-20.84
*	20720.00	Peak	Н	-	-	-69.22	17.17	-9.54	45.41	73.98	-28.57
	25900.00	Peak	Н	-	-	-68.68	19.34	-9.54	48.11	68.20	-20.09

Table 7-128. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5200MHz

	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	-	-	-72.02	18.78	0.00	53.76	68.20	-14.44
*	15600.00	Average	Н	-	-	-85.40	27.80	0.00	49.40	53.98	-4.58
*	15600.00	Peak	Н	-	-	-72.96	27.80	0.00	61.84	73.98	-12.14
*	20800.00	Average	Н	-	-	-80.49	17.31	-9.54	34.28	53.98	-19.70
*	20800.00	Peak	Н	-	-	-69.36	17.31	-9.54	45.41	73.98	-28.57
	26000.00	Peak	Н	-	-	-68.36	19.60	-9.54	48.70	68.20	-19.50

Table 7-129. Radiated Measurements MIMO (242 Tones)

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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	-	-	-72.43	20.06	0.00	54.63	68.20	-13.57
*	15720.00	Average	Н	-	-	-85.24	27.64	0.00	49.40	53.98	-4.58
*	15720.00	Peak	Н	-	-	-73.45	27.64	0.00	61.19	73.98	-12.79
*	20960.00	Average	Н	-	-	-80.22	17.60	-9.54	34.84	53.98	-19.14
*	20960.00	Peak	Н	-	-	-68.98	17.60	-9.54	46.08	73.98	-27.90
	26200.00	Peak	Н	-	-	-68.31	19.73	-9.54	48.88	68.20	-19.32

Table 7-130. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5260MHz

	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	-	-	-72.00	19.70	0.00	54.70	68.20	-13.50
*	15780.00	Average	Н	-	-	-85.15	27.31	0.00	49.16	53.98	-4.82
*	15780.00	Peak	Н	-	-	-74.33	27.31	0.00	59.98	73.98	-14.00
*	21040.00	Average	Н	-	-	-80.12	17.67	-9.54	35.01	53.98	-18.97
*	21040.00	Peak	Н	-	-	-68.96	17.67	-9.54	46.17	73.98	-27.81
ĺ	26300.00	Peak	Н	-	-	-69.12	20.29	-9.54	48.62	68.20	-19.58

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

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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	-	-	-71.57	19.86	0.00	55.29	68.20	-12.91
*	15840.00	Average	Н	-	-	-84.92	27.54	0.00	49.62	53.98	-4.36
*	15840.00	Peak	Н	-	-	-73.55	27.54	0.00	60.99	73.98	-12.99
*	21120.00	Average	Н	-	-	-80.65	17.83	-9.54	34.64	53.98	-19.34
*	21120.00	Peak	Н	-	-	-69.59	17.83	-9.54	45.70	73.98	-28.28
	26400.00	Peak	Н	-	-	-68.32	20.07	-9.54	49.21	68.20	-18.99

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

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	-	-	-83.20	19.52	0.00	43.32	53.98	-10.66
*	10640.00	Peak	Н	-	-	-71.91	19.52	0.00	54.61	73.98	-19.37
*	15960.00	Average	Н	-	-	-85.12	27.84	0.00	49.72	53.98	-4.26
*	15960.00	Peak	Н	-	-	-72.77	27.84	0.00	62.07	73.98	-11.91
*	21280.00	Average	Н	-	-	-79.93	17.98	-9.54	35.50	53.98	-18.47
*	21280.00	Peak	Н	=	=	-68.47	17.98	-9.54	46.96	73.98	-27.01
	26600.00	Peak	Н	-	-	-54.61	4.42	-9.54	47.27	68.20	-20.93

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5500MHz

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	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	-	-	-83.81	20.35	0.00	43.54	53.98	-10.44
*	11000.00	Peak	Н	-	-	-72.58	20.35	0.00	54.77	73.98	-19.21
	16500.00	Peak	Н	-	-	-73.57	28.54	0.00	61.97	68.20	-6.23
	22000.00	Peak	Н	-	•	-68.14	18.43	-9.54	47.75	68.20	-20.45
	27500.00	Peak	Н	-	-	-53.22	3.16	-9.54	47.40	68.20	-20.80

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

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	152	359	-82.74	20.31	0.00	44.57	53.98	-9.41
*	11200.00	Peak	Н	152	359	-71.56	20.31	0.00	55.75	73.98	-18.23
	16800.00	Peak	Н	-	-	-73.27	28.88	0.00	62.61	68.20	-5.59
*	22400.00	Average	Н	-	-	-80.38	18.58	-9.54	35.66	53.98	-18.32
*	22400.00	Peak	Н	-	-	-69.01	18.58	-9.54	47.03	73.98	-26.95
	28000.00	Peak	Н	-	-	-53.37	4.79	-9.54	48.88	68.20	-19.32

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

FCC ID: A3LSMG977T	PCTEST ANGINE LAURENCES : 180	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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	-		-83.08	20.11	0.00	44.03	53.98	-9.95
*	11440.00	Peak	Н	-	-	-72.14	20.11	0.00	54.97	73.98	-19.01
	17160.00	Peak	Н	-	-	-73.94	29.40	0.00	62.46	68.20	-5.74
*	22880.00	Average	Н	-	-	-79.13	18.88	-9.54	37.21	53.98	-16.77
*	22880.00	Peak	Н	-	-	-68.56	18.88	-9.54	47.78	73.98	-26.20
	28600.00	Peak	Н	-	-	-54.11	3.32	-9.54	46.66	68.20	-21.54

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

	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	-		-83.36	20.55	0.00	44.19	53.98	-9.78
*	11490.00	Peak	Н	-	-	-71.90	20.55	0.00	55.65	73.98	-18.32
ĺ	17235.00	Peak	Н		-	-72.65	29.71	0.00	64.06	68.20	-4.14
*	22980.00	Average	Н	-	-	-79.89	19.03	-9.54	36.60	53.98	-17.38
*	22980.00	Peak	Н	-	1	-69.66	19.03	-9.54	46.83	73.98	-27.15
	28725.00	Peak	Н	-	-	-53.01	3.65	-9.54	48.10	68.20	-20.10

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

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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	-	-	-83.64	21.44	0.00	44.80	53.98	-9.18
*	11570.00	Peak	Н	-	•	-72.53	21.44	0.00	55.91	73.98	-18.07
	17355.00	Peak	Н	-	ı	-73.21	29.55	0.00	63.34	68.20	-4.86
	23140.00	Peak	Н	-	ı	-69.36	18.82	-9.54	46.92	68.20	-21.28
	28925.00	Peak	Н	-	•	-52.88	4.50	-9.54	49.08	68.20	-19.12

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

Worst Case Mode: 802.11ax (20MHz BW)

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

	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	-	-	-83.42	20.88	0.00	44.46	53.98	-9.51
*	11650.00	Peak	Н	-	-	-71.87	20.88	0.00	56.01	73.98	-17.96
	17475.00	Peak	Н	-	ı	-73.42	30.26	0.00	63.84	68.20	-4.36
	23300.00	Peak	Н	-	-	-69.29	18.40	-9.54	46.57	68.20	-21.63
	29125.00	Peak	Н	-	-	-52.63	2.23	-9.54	47.06	68.20	-21.14

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

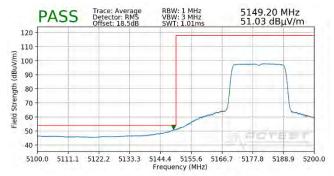
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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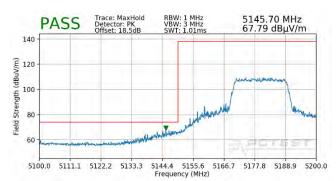
SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

242 Tones

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

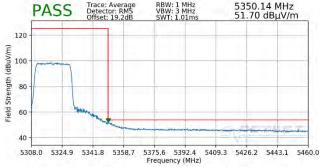


Plot 7-307. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

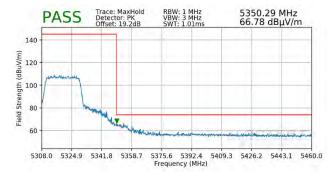


Plot 7-308. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

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



Plot 7-309. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 2A - 242 Tones)



Plot 7-310. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 2A - 242 Tones)

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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

61

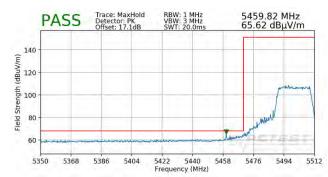
3 Meters

5500MHz

100



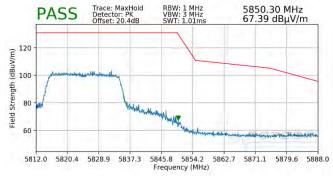
Plot 7-311. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-312. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5825MHz
165

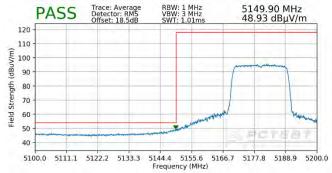


Plot 7-313. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

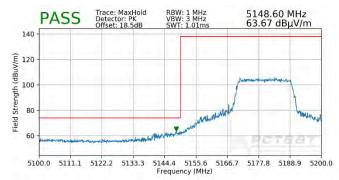
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 3 Meters 5180MHz Operating Frequency: Channel: 36



Plot 7-314. Radiated Band Edge Plot SISO ANT1 (Average - WCP - 242 Tones)



Plot 7-315. Radiated Band Edge Plot SISO ANT1 (Peak - WCP - 242 Tones)

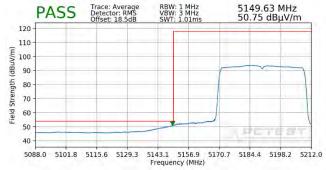
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 256 of 285
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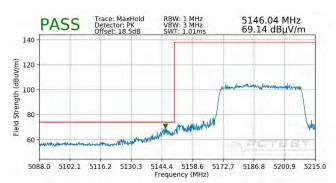
SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) 7.6.5 §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

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



Plot 7-316. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

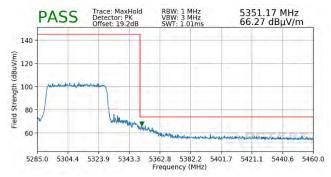


Plot 7-317. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 1 - 484 Tones)

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



Plot 7-318. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)

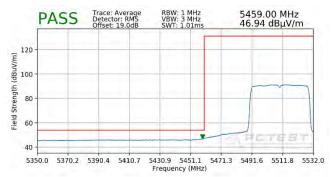


Plot 7-319. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 2A - 484 Tones)

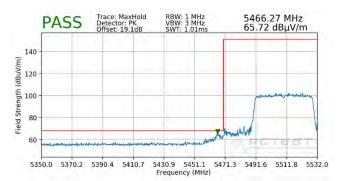
FCC ID: A3LSMG977T	PCTEST ANGINERAL PROPERTY OF COMMERCE AND CO	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5510MHz Channel: 102

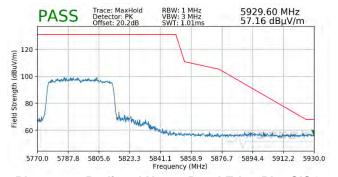


Plot 7-320. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C - 484 Tones)



Plot 7-321. Radiated Lower Band Edge Plot SISO ANT1 (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 7-322. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3 - 484 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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 Worst Case Mode:
 802.11ax

 Worst Case Transfer Rate:
 MCS0

 RU Index:
 65

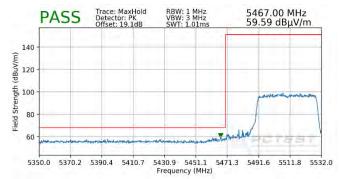
 Distance of Measurements:
 3 Meters

 Operating Frequency:
 5190MHz

 Channel:
 102



Plot 7-323. Radiated Band Edge Plot SISO ANT1 (Average – WCP – 484 Tones)



Plot 7-324. Radiated Band Edge Plot SISO ANT1 (Peak – WCP – 484 Tones)

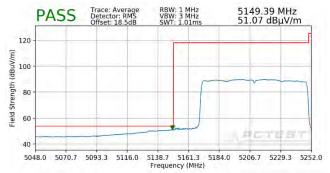
FCC ID: A3LSMG977T	PCTEST ANGINE LAURENTING FOR	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 250 of 205
1M1903060032-09.A3L	01/22 - 05/08/2019	Portable Handset	Page 259 of 285



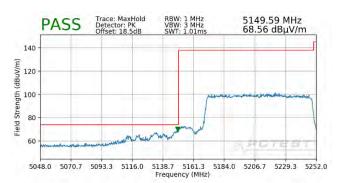
SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

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

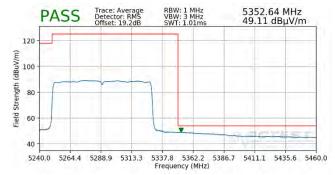


Plot 7-325. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 1 - 996 Tones)

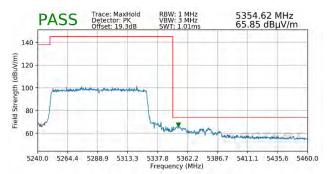


Plot 7-326. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 1 - 996 Tones)

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



Plot 7-327. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



Plot 7-328. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMG977T	PCTEST ANGINERAL PROPERTY OF COMMERCE AND CO	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 260 of 205
1M1903060032-09.A3L	01/22 - 05/08/2019	Portable Handset	Page 260 of 285



Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

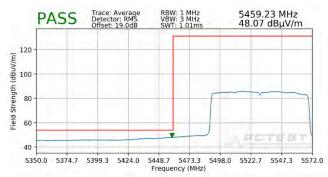
MCS0

67

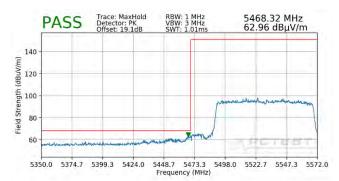
3 Meters

5530MHz

106



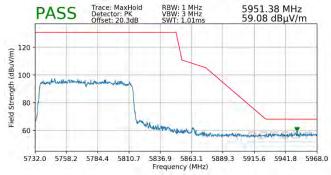
Plot 7-329. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-330. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

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

802.11ax
MCS0
67
3 Meters
5775MHz
155

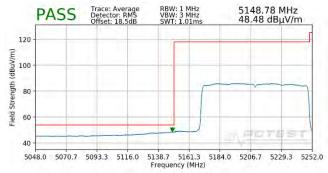


Plot 7-331. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

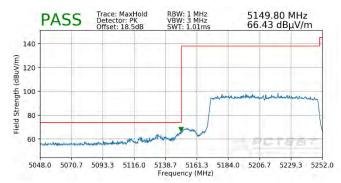
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 261 of 205
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 67 Distance of Measurements: 3 Meters Operating Frequency: 5210MHz Channel: 42



Plot 7-332. Radiated Band Edge Plot SISO ANT1 (Average - WCP - 996 Tones)



Plot 7-333. Radiated Band Edge Plot SISO ANT1 (Peak - WCP - 996 Tones)

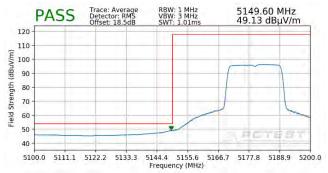
FCC ID: A3LSMG977T	PCTEST ANGINE LAURENTING FOR	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 262 of 205
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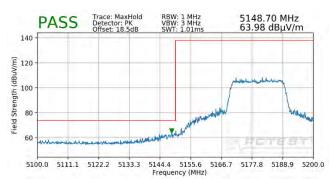
SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

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

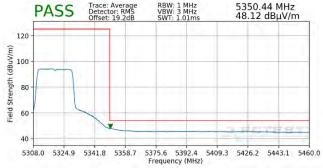


Plot 7-334. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

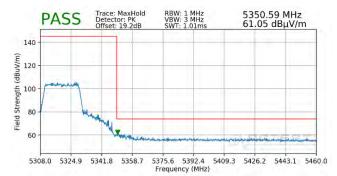


Plot 7-335. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

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



Plot 7-336. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



Plot 7-337. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A - 242 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 262 of 205
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

61

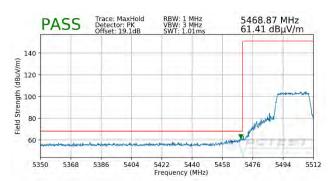
3 Meters

5500MHz

100



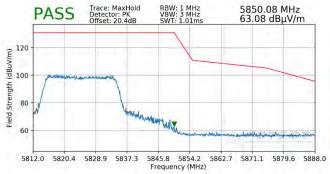
Plot 7-338. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-339. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5825MHz
165

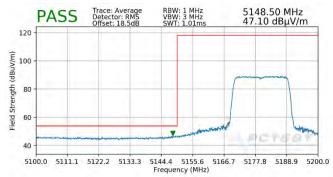


Plot 7-340. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

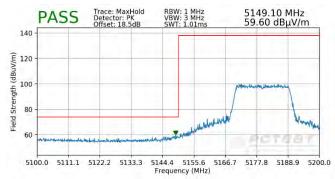
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 264 of 285
1M1903060032-08.A3L	01/22 - 05/08/2019	Portable Handset	Fage 264 01 265



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



Plot 7-341. Radiated Band Edge Plot SISO ANT2 (Average - WCP - 242 Tones)



Plot 7-342. Radiated Band Edge Plot SISO ANT2 (Peak - WCP - 242 Tones)

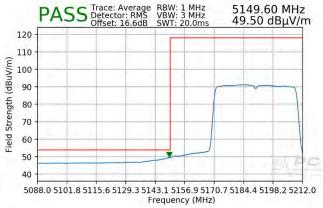
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 265 of 285
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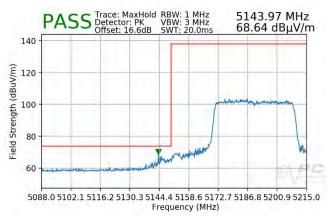
SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) 7.6.8 §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

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



Plot 7-343. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)

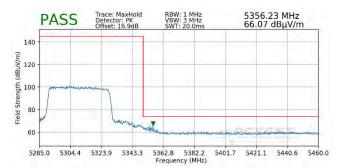


Plot 7-344. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

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



Plot 7-345. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



Plot 7-346. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A - 484 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 266 of 205
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

65

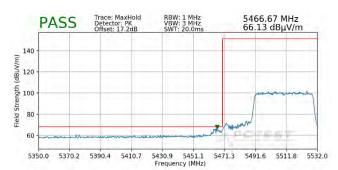
3 Meters

5510MHz

102



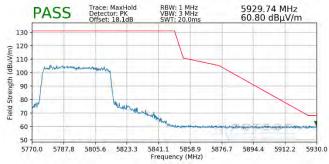
Plot 7-347. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-348. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 484 Tones)

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

802.11ax
MCS0
65
3 Meters
5795MHz
159



Plot 7-349. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 484 Tones)

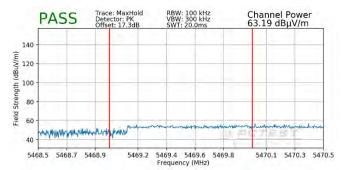
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 267 of 205
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5190MHz Channel: 38



Plot 7-350. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 484 Tones)



Plot 7-351. Radiated Band Edge Plot SISO ANT2 (Peak - WCP - 484 Tones)

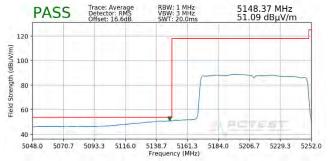
FCC ID: A3LSMG977T	PCTEST ANGINE LAURENTING FOR	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 269 of 295
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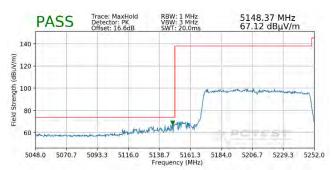
SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW) 7.6.9 §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

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

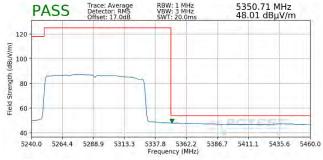


Plot 7-352. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 996 Tones)

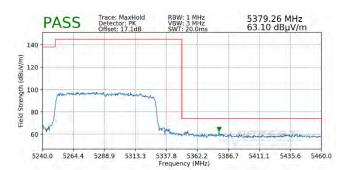


Plot 7-353. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 996 Tones)

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



Plot 7-354. Radiated Upper Band Edge Plot SISO ANT2 (Average - UNII Band 2A - 996 Tones)



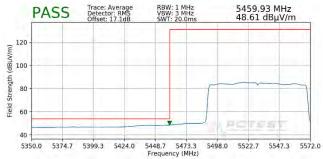
Plot 7-355. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A - 996 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 260 of 205
1M1903060032-08.A3L	01/22 - 05/08/2019	Portable Handset	Page 269 of 285

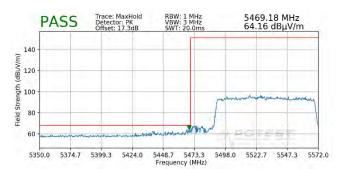


Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
67
3 Meters
5530MHz
106



Plot 7-356. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 996 Tones)



Plot 7-357. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

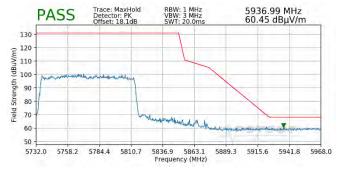
MCS0

67

3 Meters

5775MHz

155



Plot 7-358. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 270 of 285
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

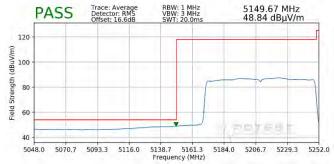
MCS0

67

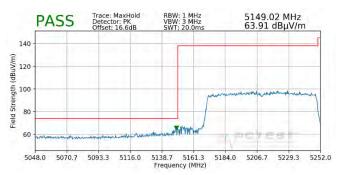
3 Meters

5530MHz

106



Plot 7-359. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 996 Tones)



Plot 7-360. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 996 Tones)

FCC ID: A3LSMG977T	PCTEST Juguetum juga	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 271 of 205
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7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

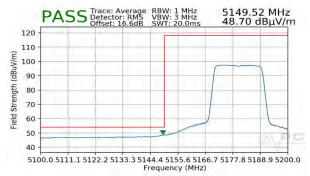
MCS0

61

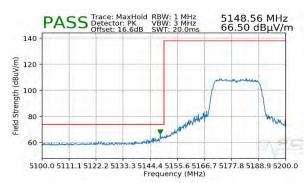
3 Meters

5180MHz

36



Plot 7-361. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)



Plot 7-362. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

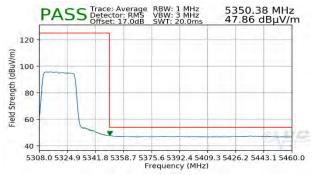
MCS0

61

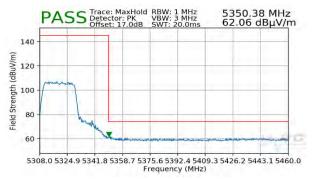
3 Meters

5320MHz

64



Plot 7-363. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



Plot 7-364. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 272 of 285
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

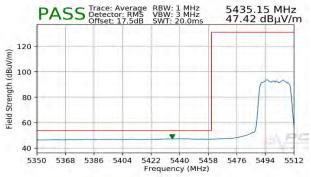
MCS0

61

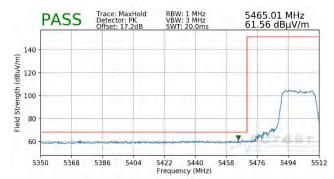
3 Meters

5500MHz

100



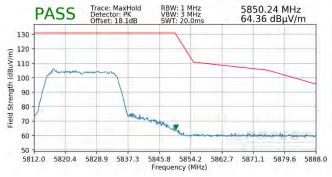
Plot 7-365. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-366. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5825MHz
165



Plot 7-367. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 273 of 285
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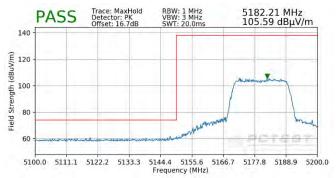
© 2019 PCTEST Engineering Laboratory, Inc.



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



Plot 7-368. Radiated Band Edge Plot MIMO (Average – WCP – 242 Tones)



Plot 7-369. Radiated Band Edge Plot MIMO (Peak -WCP - 242 Tones)

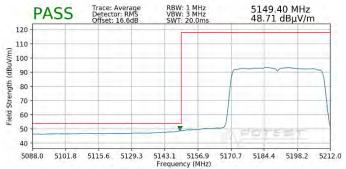
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 274 of 285
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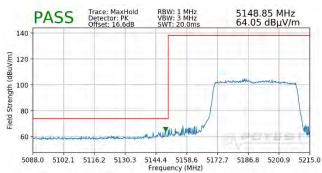
MIMO Radiated Band Edge Measurements (40MHz BW) 7.6.11 §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

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



Plot 7-370. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1 - 484 Tones)

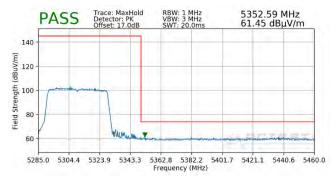


Plot 7-371. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1 - 484 Tones)

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



Plot 7-372. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A - 484 Tones)



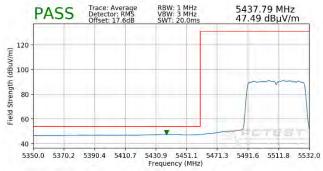
Plot 7-373. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A - 484 Tones)

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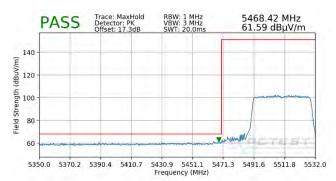


Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
65
3 Meters
5510MHz
102



Plot 7-374. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-375. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

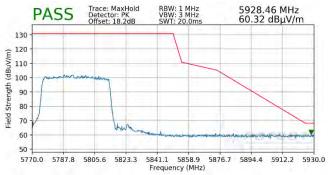
MCS0

65

3 Meters

5795MHz

159

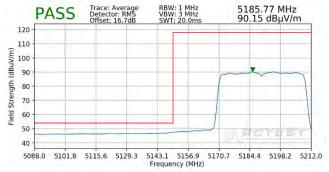


Plot 7-376. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

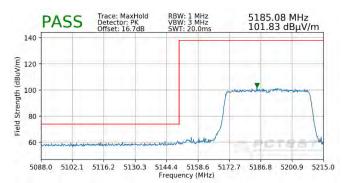
FCC ID: A3LSMG977T	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 65 Distance of Measurements: 3 Meters Operating Frequency: 5190MHz Channel: 38



Plot 7-377. Radiated Band Edge Plot MIMO (Average - WCP - 484 Tones)



Plot 7-378. Radiated Band Edge Plot MIMO (Peak -WCP - 484 Tones)

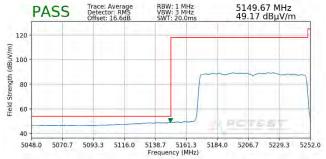
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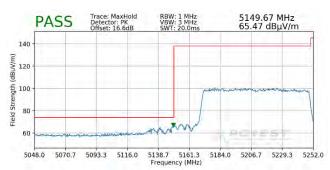
MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

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

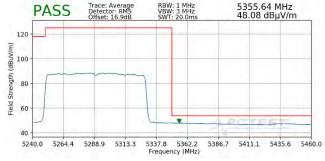


Plot 7-379. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1 - 996 Tones)

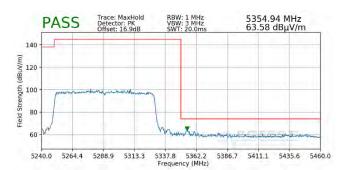


Plot 7-380. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1 - 996 Tones)

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



Plot 7-381. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A - 996 Tones)



Plot 7-382. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A - 996 Tones)

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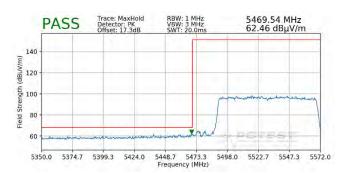


Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
67
3 Meters
5530MHz
106



Plot 7-383. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-384. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

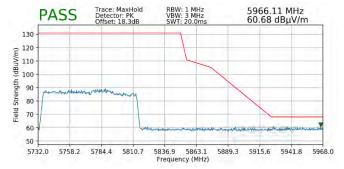
MCS0

67

3 Meters

5775MHz

155



Plot 7-385. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

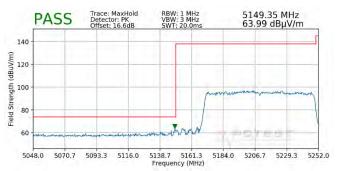
FCC ID: A3LSMG977T	PCTEST Juguetum juga	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 67 Distance of Measurements: 3 Meters Operating Frequency: 5210MHz Channel: 42



Plot 7-386. Radiated Band Edge Plot MIMO (Average – WCP – 996 Tones)



Plot 7-387. Radiated Band Edge Plot MIMO (Peak -WCP - 996 Tones)

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Radiated Spurious Emissions Measurements – Below 1GHz §15.209; RSS-Gen [8.9]

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-130 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-140. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- Trace was allowed to stabilize

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Test Setup

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

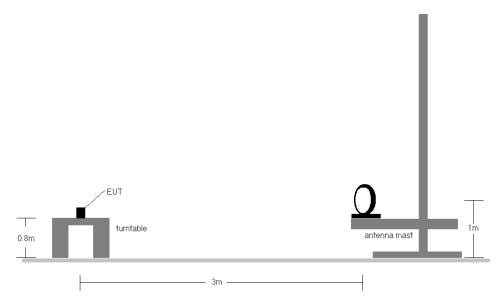


Figure 7-6. Radiated Test Setup < 30MHz

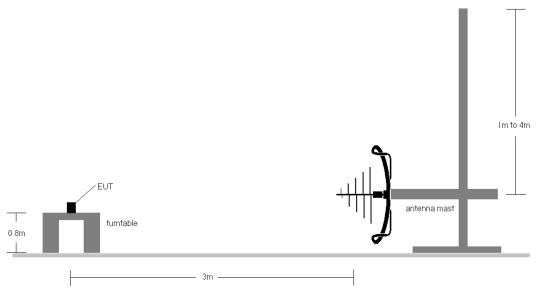


Figure 7-7. Radiated Test Setup < 1GHz

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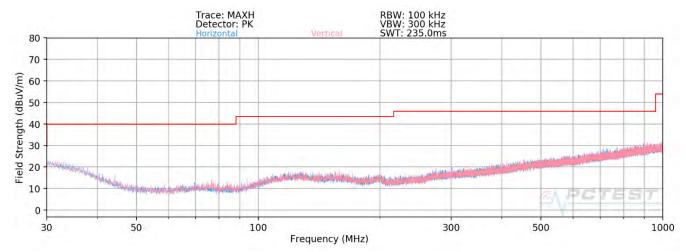


Test Notes

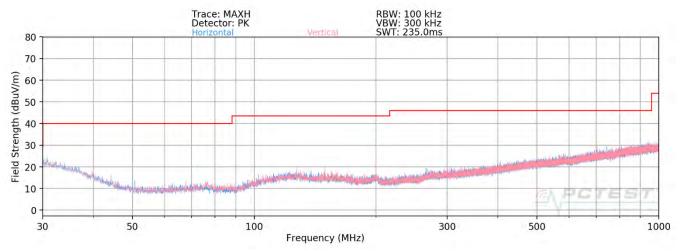
- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-130.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz - 1GHz frequency range, as shown in the subsequent plots.



MIMO Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-388. Radiated Spurious Plot below 1GHz MIMO (802.11ax - 26 Tones - U3 Ch. 157)



Plot 7-389. Radiated Spurious Plot below 1GHz MIMO (802.11ax - 242 Tones - U3 Ch. 157)

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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: A3LSMG977T is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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