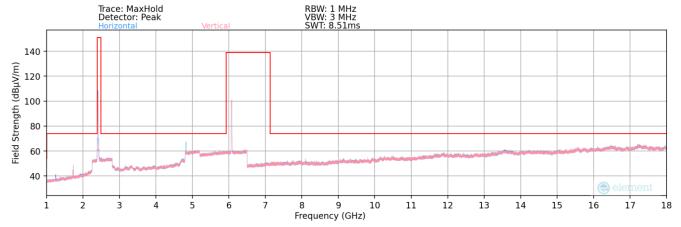


Description	2.4 GHz Emission	6 GHz Emission
Antenna	1, 2	1, 2
Channel	6	25
Operating Frequency (MHz)	2437	6075
Data Rate (Mbps)	1Mbps	6Mbps
Mode	b	a

Table 7-43. Dual Band Simultaneous Transmission



Plot 7-362. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)

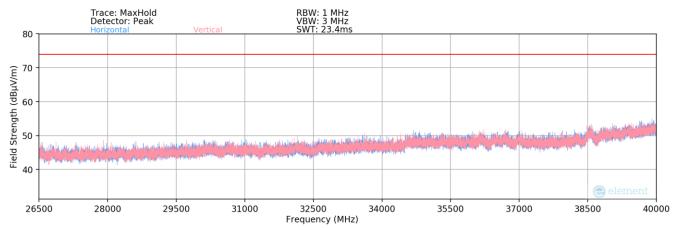


Plot 7-363. Radiated Spurious Plot 18GHz - 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMS918JPN		Approved by: Technical Manager	
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Plot 7-364. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

	Frequency [MHz]	Detector	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]
*	1201.00	Avg	-	-	-77.83	-2.06	0.00	27.11	53.98	-26.87
*	1201.00	Peak	-	-	-65.20	-2.06	0.00	39.74	73.98	-34.24
*	4839.00	Avg	310	174	-74.58	19.99	0.00	52.41	53.98	-1.57
*	4839.00	Peak	310	174	-64.39	19.99	0.00	62.60	73.98	-11.38
*	8477.00	Avg	-	-	-83.72	16.34	0.00	39.62	53.98	-14.36
*	8477.00	Peak	-	-	-70.52	16.34	0.00	52.82	73.98	-21.16
	9713.00	Avg	-	-	-84.72	19.43	0.00	41.71	53.98	-12.27
	9713.00	Peak	-	-	-71.40	19.43	0.00	55.03	73.98	-18.95
*	20627.00	Avg	-	-	-65.53	3.28	-9.54	35.20	53.98	-18.78
*	20627.00	Peak	-	-	-53.84	3.28	-9.54	46.90	73.98	-27.08

Table 7-44. Radiated Measurements (Dual Band Simult. Tx)

FCC ID: A3LSMS918JPN		Approved by: Technical Manager	
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6.6.3 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

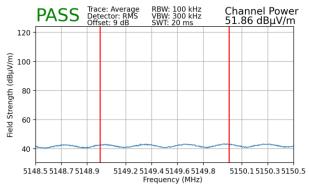
802.11ac

MCS0

3 Meters

5180MHz

36



Plot 7-365. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 7-366. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

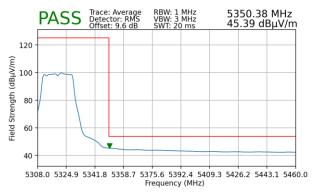
802.11n

MCS0

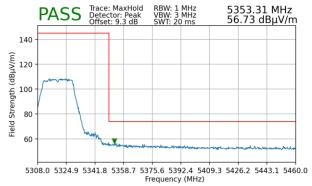
3 Meters

5320MHz

64



Plot 7-367. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



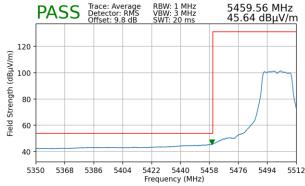
Plot 7-368. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		
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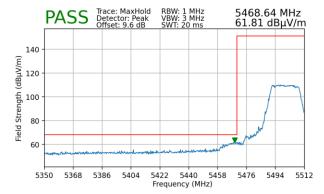


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5500MHz
100



Plot 7-369. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-370. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

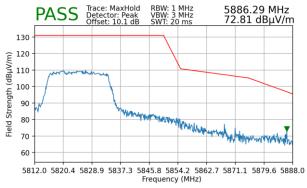
802.11n

MCS0

3 Meters

5825MHz

165



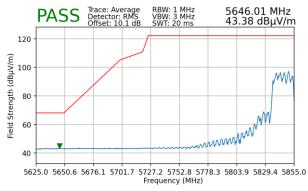
Plot 7-371. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		
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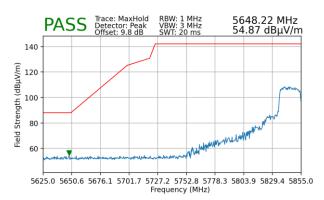


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5845MHz
169



Plot 7-372. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-373. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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

802.11ac

MCS0

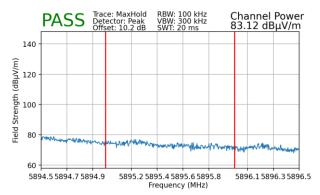
3 Meters

5885MHz

177



Plot 7-374. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-375. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		
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6.6.4 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

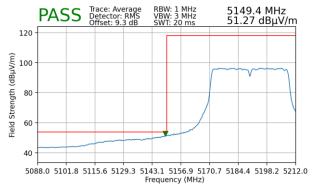
802.11ac

MCS0

3 Meters

5190MHz

38



Plot 7-376. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



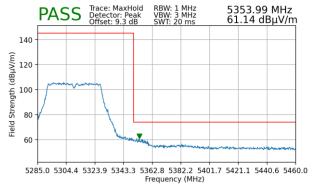
Plot 7-377. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

802.11ac
MCS0
3 Meters
5310MHz
62



Plot 7-378. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



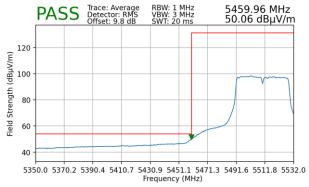
Plot 7-379. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5510MHz
102



Plot 7-380. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

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

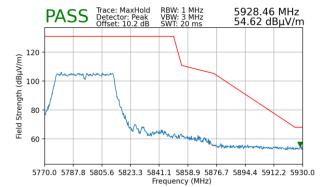
802.11n

MCS0

3 Meters

5795MHz

159



Plot 7-382. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

	PAS	SS	Trace: Ma Detector: Offset: 9.	xHold Peak 6 dB	RBW: 1 VBW: 3 SWT: 20	MHz		68.42 .39 dl	MHz BμV/m
140									
Field Strength (dBµV/m)									
th 100								Lunn	many
Strer 08									
E 60						, July	W		
	-		Mary Mary	der to the total of the total o					
535	50.0 537	0.2 5	390.4 541		30.9 545 requency		71.3 549	1.6 551	1.8 5532.0

Plot 7-381. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

FCC ID: A3LSMS918JPN		Approved by: Technical Manager	
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221200013171171.73E | 03/00 - 11/00/2022 | FOITable Flatiluset | V9.0 02/01/20 | V9.0 02/01/20



Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

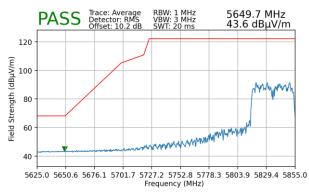
802.11ax

MCS0

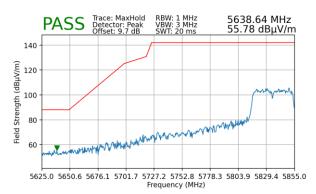
3 Meters

5835MHz

167



Plot 7-383. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-384. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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

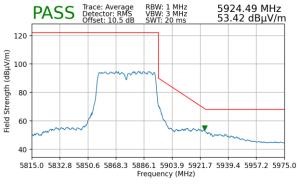
802.11ax

MCS0

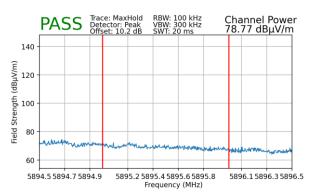
3 Meters

5875MHz

175



Plot 7-385. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-386. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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

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

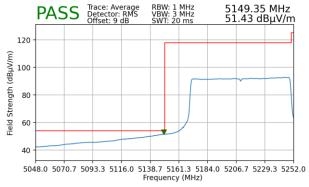
802.11ac

MCS0

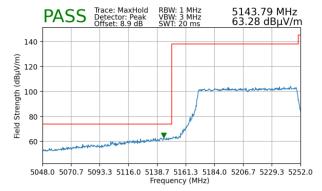
3 Meters

5210MHz

42



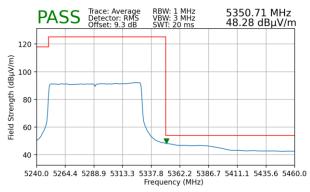
Plot 7-387. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



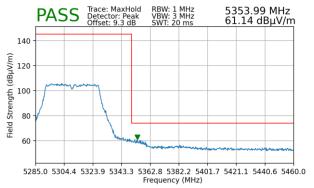
Plot 7-388. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

802.11ac
MCS0
3 Meters
5290MHz
58



Plot 7-389. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-390. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

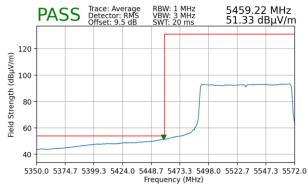
802.11ac

MCS0

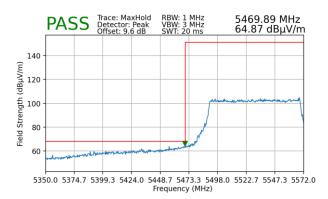
3 Meters

5530MHz

106



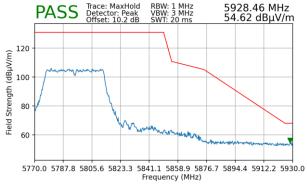
Plot 7-391. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-392. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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

802.11ac
MCS0
3 Meters
5775MHz
155



Plot 7-393. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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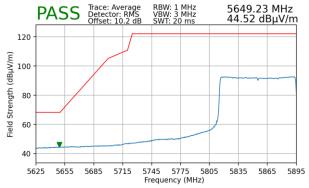
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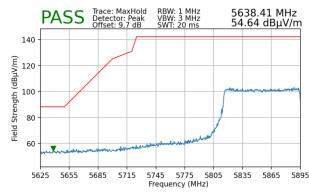


Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel:

802.11ax	
MCS0	
3 Meters	
5855MHz	
171	



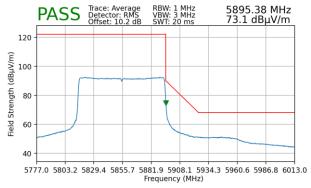
Plot 7-394. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 4)



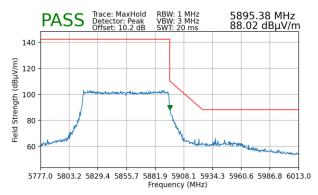
Plot 7-395. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 4)

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

802.11ax	
MCS0	
3 Meters	
5855MHz	
171	



Plot 7-396. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 4)



Plot 7-397. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 4)

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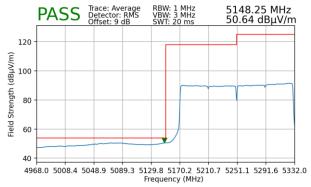
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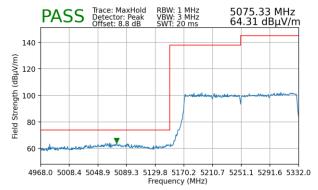
6.6.6 MIMO Radiated Band Edge Measurements (160MHz BW)

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

802.11ax
MCS0
3 Meters
5250MHz
50

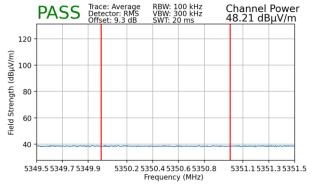


Plot 7-398. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

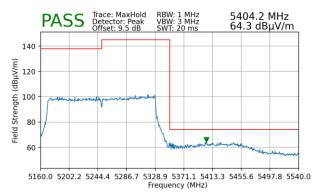


Plot 7-399. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



Plot 7-400. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



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

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

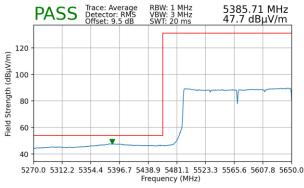
802.11ax

MCS0

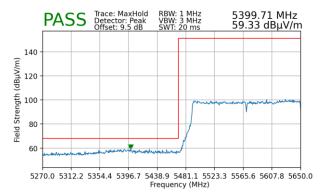
3 Meters

5570MHz

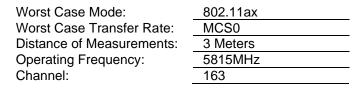
114

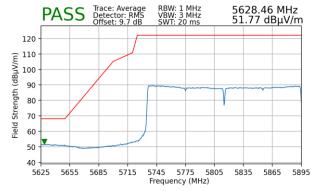


Plot 7-402. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

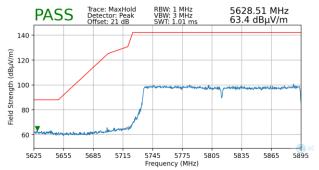


Plot 7-403. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)





Plot 7-404. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-406. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

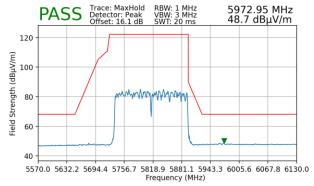
802.11ax

MCS0

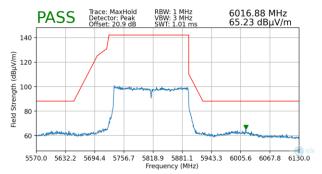
3 Meters

5815MHz

163



Plot 7-405. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)



Plot 7-407. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-45 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 7-45. 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
- 6. Trace was allowed to stabilize

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Test Setup

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

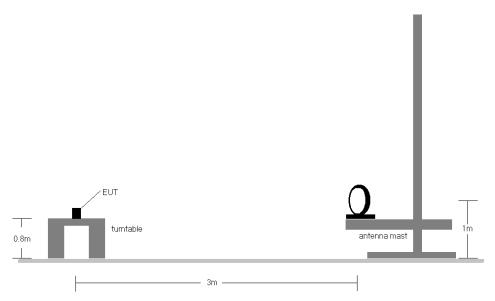


Figure 7-6. Radiated Test Setup < 30MHz

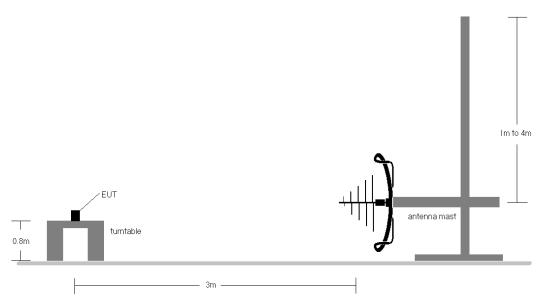


Figure 7-7. Radiated Test Setup < 1GHz

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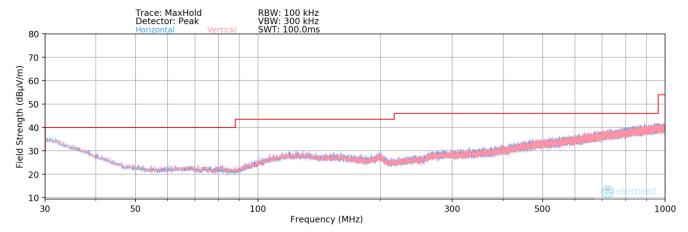
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-45.
- 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.
- The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose
 of emission identification. There were no emissions detected in the 30MHz 1GHz frequency range, as
 shown in the subsequent plots.

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



Plot 7-408. Radiated Spurious Plot below 1GHz MIMO (802.11a - U3 Ch. 157)

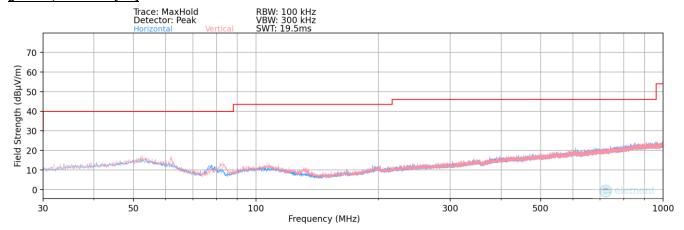
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
751.76	Peak	Н	358	318	-95.43	29.66	41.23	46.02	-4.79

Table 7-46. Radiated Spurious Emissions below 1GHz MIMO

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



Plot 7-409. Radiated Spurious Plot below 1GHz (Dual Band Simult. Tx)

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7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

Test Overview and Limit

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

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

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

Table 7-47. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

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

Average Field Strength Measurements

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

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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

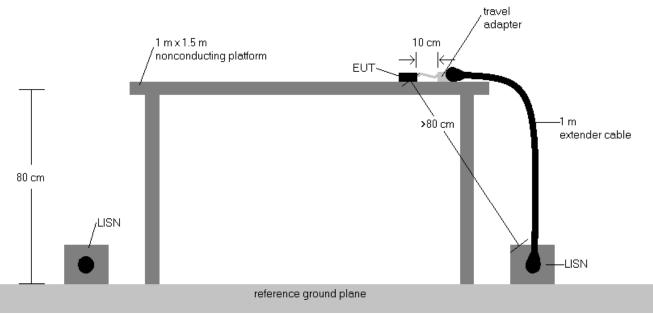


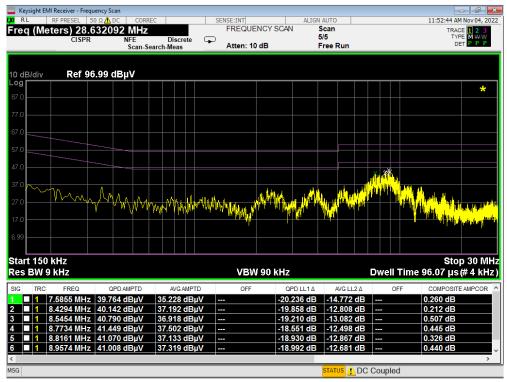
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

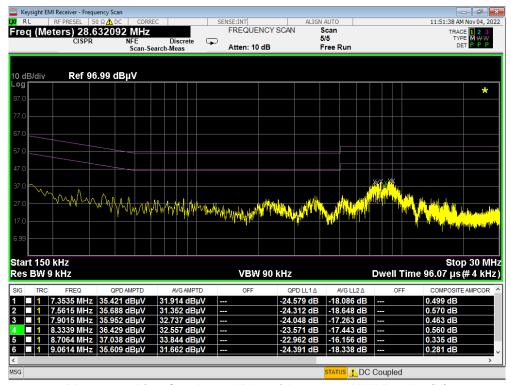
- All modes of operation were investigated and the worst-case emissions are reported using mid channel.
 The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 3.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

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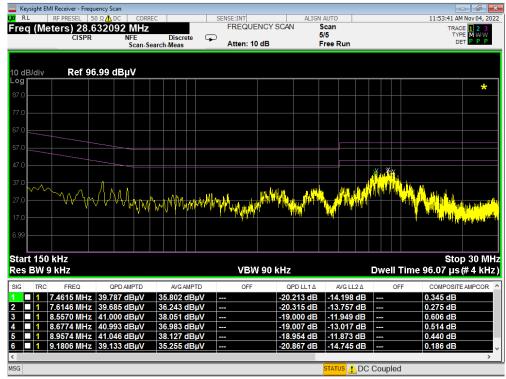
Plot 7-410. Line Conducted Plot with 802.11a UNII Band 1 (L1)



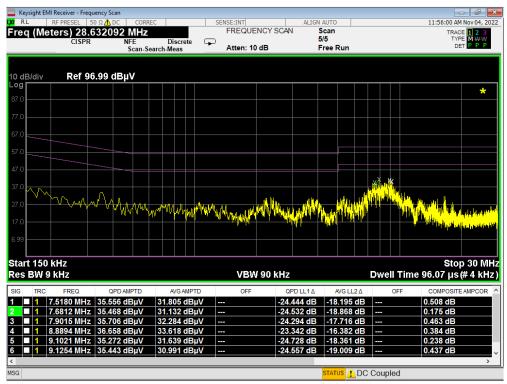
Plot 7-411. Line Conducted Plot with 802.11a UNII Band 1 (N)

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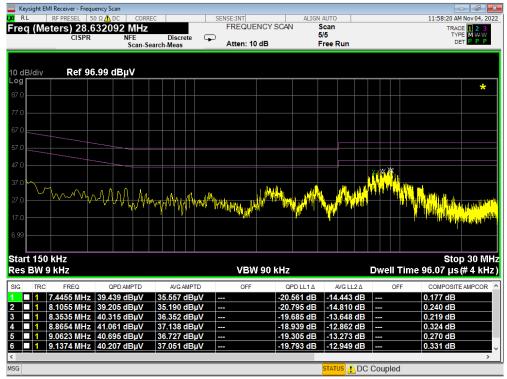
Plot 7-412. Line Conducted Plot with 802.11a UNII Band 2A (L1)



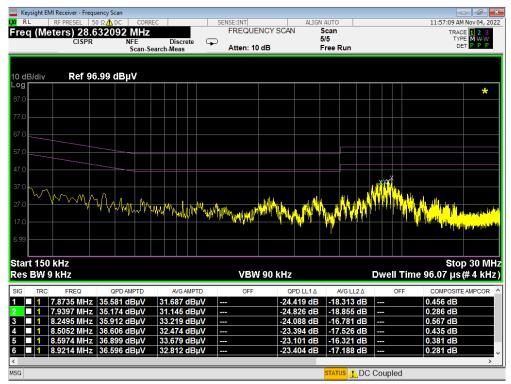
Plot 7-413. Line Conducted Plot with 802.11a UNII Band 2A (N)

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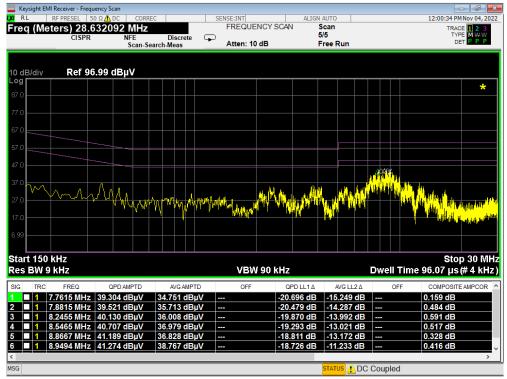
Plot 7-414. Line Conducted Plot with 802.11a UNII Band 2C (L1)



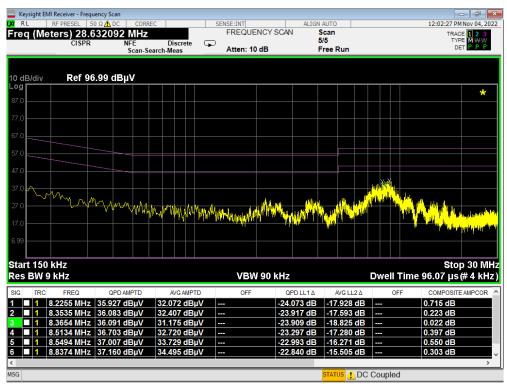
Plot 7-415. Line Conducted Plot with 802.11a UNII Band 2C (N)

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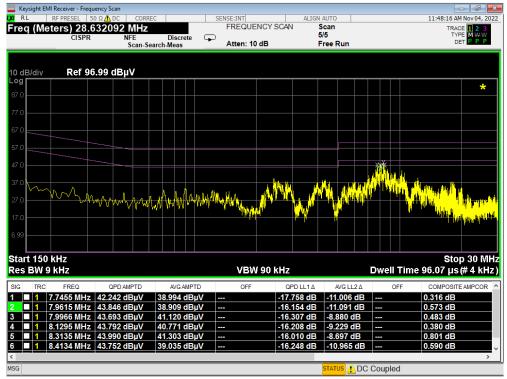
Plot 7-416. Line Conducted Plot with 802.11a UNII Band 3 (L1)



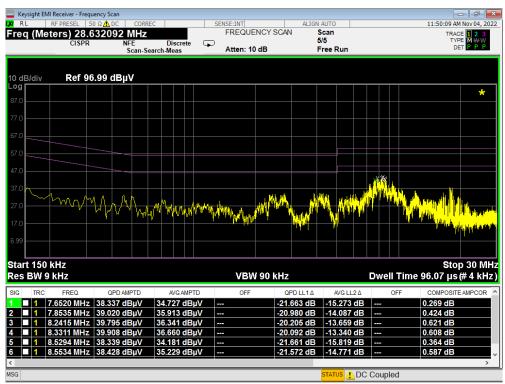
Plot 7-417. Line Conducted Plot with 802.11a UNII Band 3 (N)

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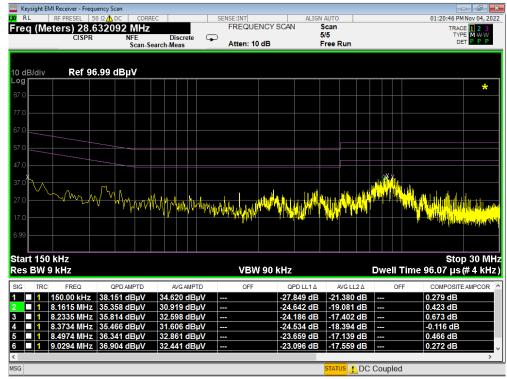
Plot 7-418. Line Conducted Plot with 802.11a UNII Band 4 (L1)



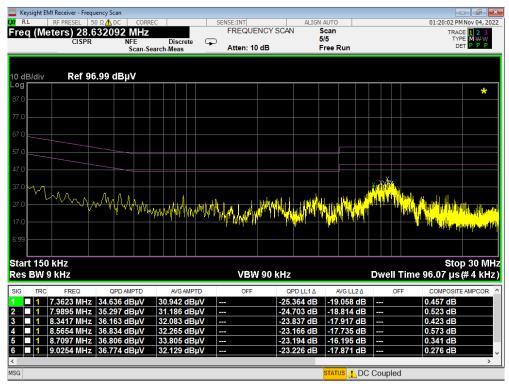
Plot 7-419. Line Conducted Plot with 802.11a UNII Band 4 (N)

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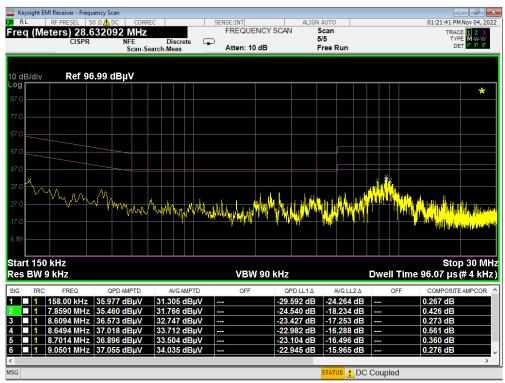
Plot 7-420. Line Conducted Plot with 802.11a UNII Band 1 (L1) with WCP



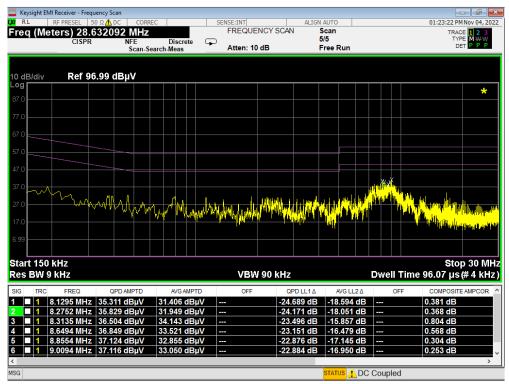
Plot 7-421. Line Conducted Plot with 802.11a UNII Band 1 (N) with WCP

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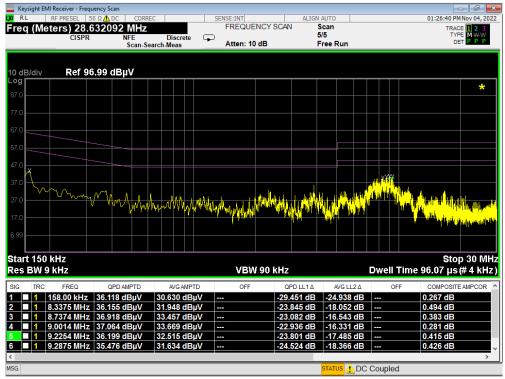
Plot 7-422. Line Conducted Plot with 802.11a UNII Band 2A (L1) with WCP



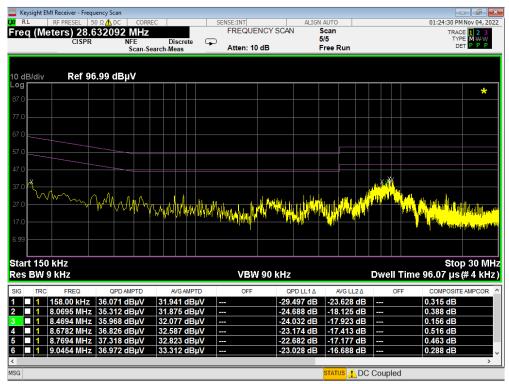
Plot 7-423. Line Conducted Plot with 802.11a UNII Band 2A (N) with WCP

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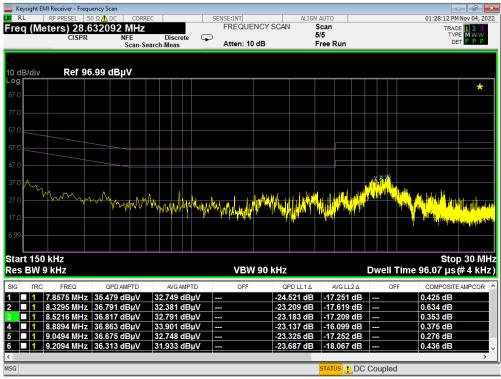
Plot 7-424. Line Conducted Plot with 802.11a UNII Band 2C (L1) with WCP



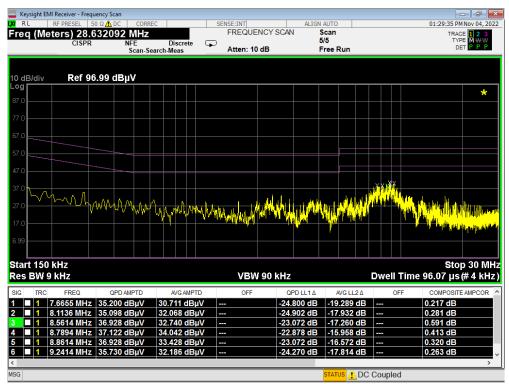
Plot 7-425. Line Conducted Plot with 802.11a UNII Band 2C (N) with WCP

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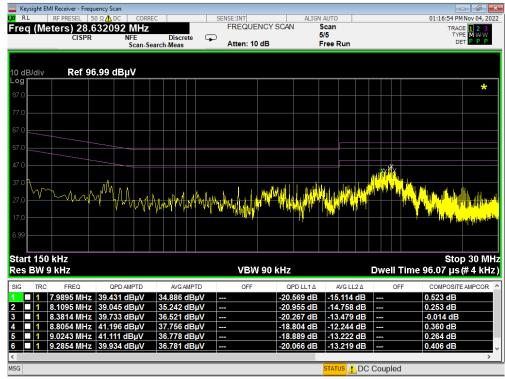
Plot 7-426. Line Conducted Plot with 802.11a UNII Band 3 (L1) with WCP



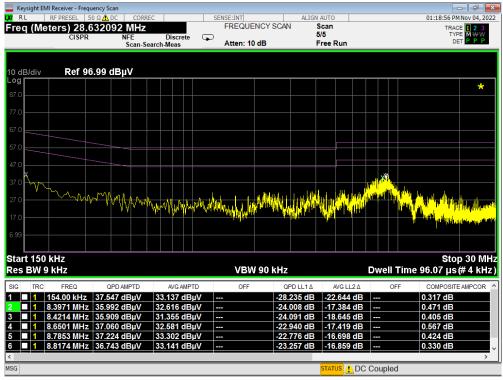
Plot 7-427. Line Conducted Plot with 802.11a UNII Band 3 (N) with WCP

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Plot 7-428. Line Conducted Plot with 802.11a UNII Band 4 (L1) with WCP



Plot 7-429. Line Conducted Plot with 802.11a UNII Band 4 (N) with WCP

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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: A3LSMS918JPN** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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