

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

484Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

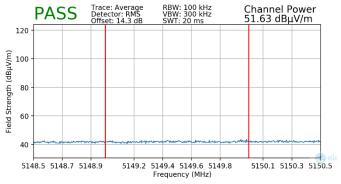
MCS0

65

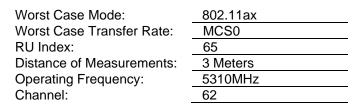
3 Meters

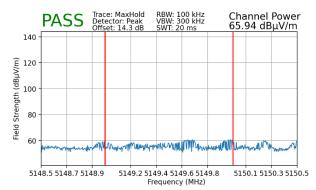
5190MHz

38

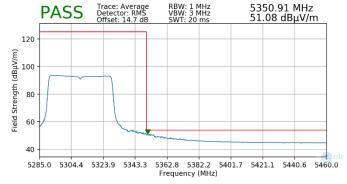


Plot 7-391. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

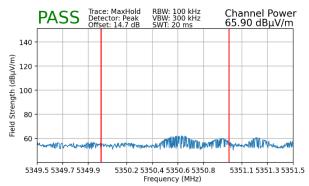




Plot 7-392. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)



Plot 7-393. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



Plot 7-394. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

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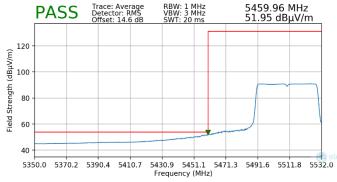


RU Index:

Distance of Measurements: Operating Frequency:

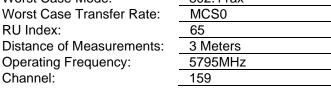
Channel:

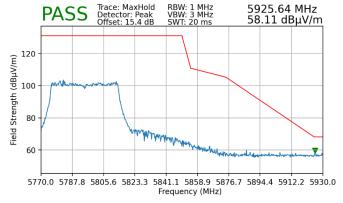
802.11ax	
MCS0	
65	
3 Meters	
5510MHz	
102	



Plot 7-395. Radiated Lower Band Edge Plot SISO ANT1 (Average - 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





Plot 7-397. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3 - 484 Tones)

(m/	140												
dBμ ⁾	120 -												
rength	100 -												
ield St	120 - 100 - 80 -												
_	60 -	Produpos	wagen and	₁ 411/11	Mehren	NAMAN AND AND AND AND AND AND AND AND AND A	Managh	Mahman	man Mill	llan	**************************************	Marrian Marrian	
	5468.5 5468.7 5468.9 5469.2 5469.4 5469.6 5469.8 5470.1 5470.3 5470.5 Frequency (MHz)												
•	Plot 7-396. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)												

PASS

Channel Power 66.27 dBµV/m

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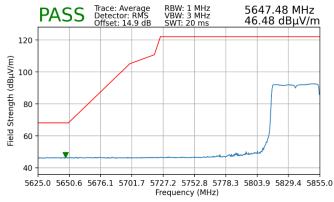
Channel:

RU Index:

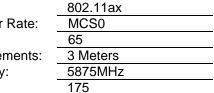
Channel:

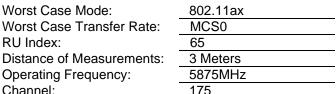
802.11ax Worst Case Mode: Worst Case Transfer Rate: MCS₀ 65 RU Index: Distance of Measurements: 3 Meters 5835MHz Operating Frequency:

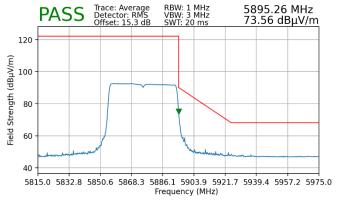
167



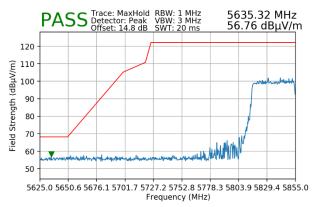
Plot 7-398. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 4 - 484 Tones)



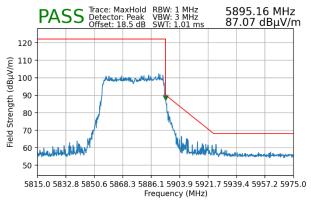




Plot 7-400. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 4 - 484 Tones)



Plot 7-399. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 4 - 484 Tones)



Plot 7-401. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 4 - 484 Tones)

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7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW & 160MHz) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

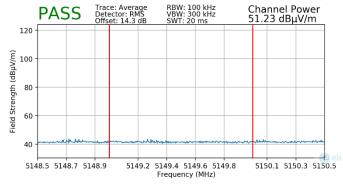
MCS0

67

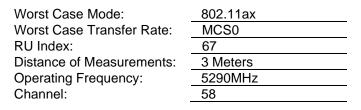
3 Meters

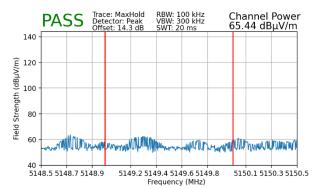
5210MHz

42

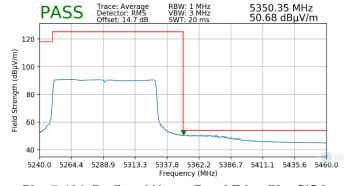


Plot 7-402. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

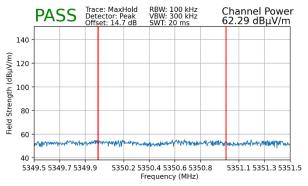




Plot 7-403. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)



Plot 7-404. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



Plot 7-405. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMF721JPN		Approved by: Technical Manager	
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Channel:

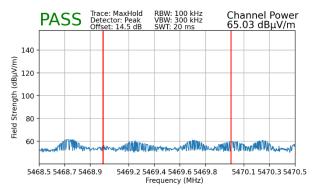
Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:

802.11ax
MCS0
67
3 Meters
5530MHz

106

		PAS	SS	Trac Dete Offs	e: Avera ector: RN et: 14.6	ige //S dB	RBW: 1 VBW: 3 SWT: 20	00 kHz				Pow ΒμV/r	
(M/M	120 - 100 -												
rength (80 -												
Field S	60 -												
	40 -					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	********						
	545	8.5 545	8.7 54	58.9	545		9.4 54	59.6 545 (MHz)	9.8	546	0.1 5	460.3	5460.5

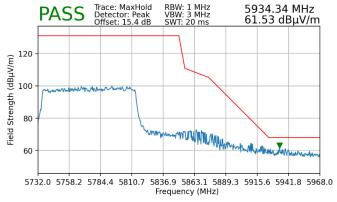
Plot 7-406. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-407. 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 7-408. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMF721JPN		Approved by: Technical Manager	
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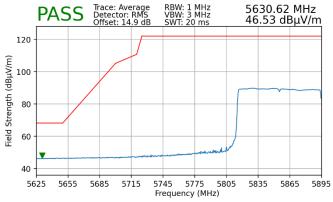


RU Index:

Distance of Measurements: Operating Frequency:

Channel:

802.11ax MCS0 67 3 Meters 5855MHz 171



Plot 7-409. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)

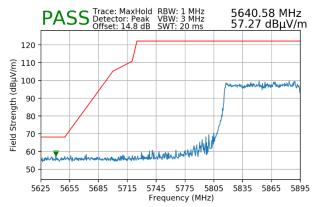
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

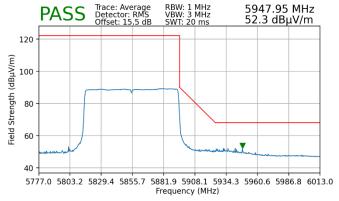
Distance of Measurements: Operating Frequency:

Channel:

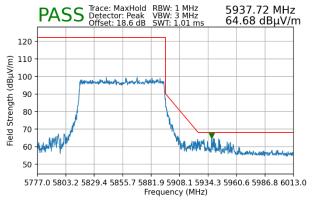
802.11ax MCS0 67 3 Meters 5855MHz 171



Plot 7-410. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4– 996 Tones)



Plot 7-411. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)



Plot 7-412. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 4– 996 Tones)

FCC ID: A3LSMF721JPN		Approved by: Technical Manager	
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

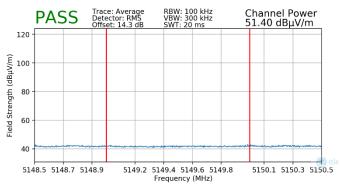
MCS0

67

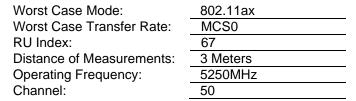
3 Meters

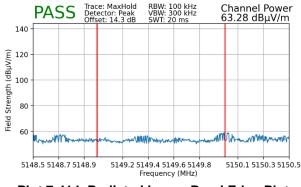
5250MHz

50

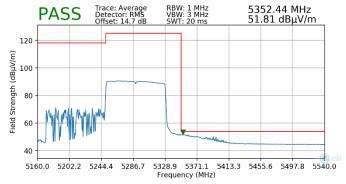


Plot 7-413. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1/2A – 996 Tones)

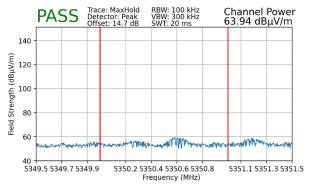




Plot 7-414. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1/2A–996 Tones)



Plot 7-415. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 1/2A – 996 Tones)



Plot 7-416. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 1/2A – 996 Tones)

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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

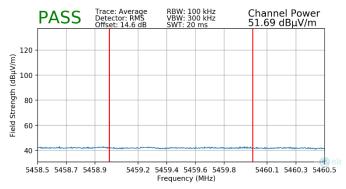
MCS0

67

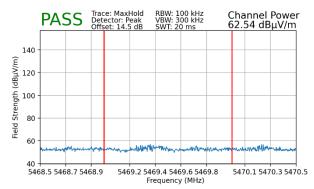
3 Meters

5570MHz

114



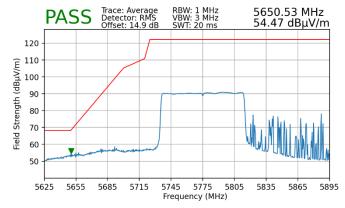
Plot 7-417. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



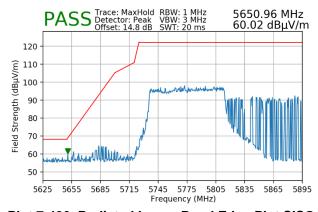
Plot 7-418. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

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

802.11ax
MCS0
67
3 Meters
5815MHz
163



Plot 7-419. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)

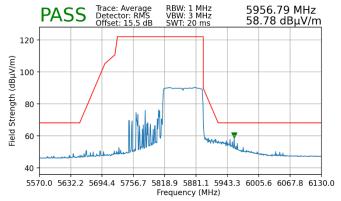


Plot 7-420. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4 – 996 Tones)

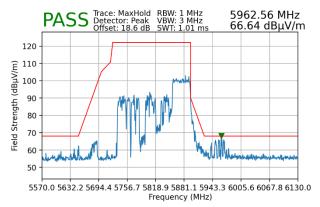
FCC ID: A3LSMF721JPN		Approved by: Technical Manager	
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 67
Distance of Measurements: 3 Meters
Operating Frequency: 5815MHz
Channel: 163



Plot 7-421. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)



Plot 7-422. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 4 – 996 Tones)

FCC ID: A3LSMF721JPN		Approved by: Technical Manager	
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7.6.6 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

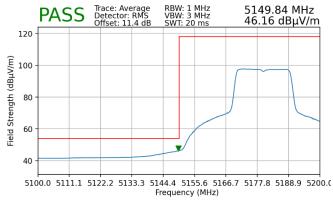
MCS0

61

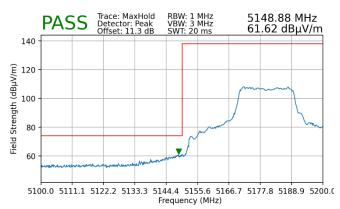
3 Meters

5180MHz

36



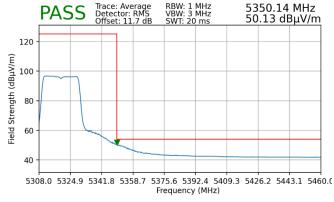
Plot 7-423. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)



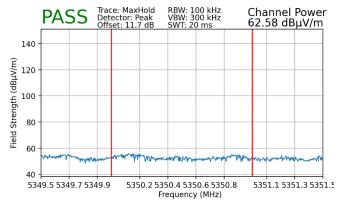
Plot 7-424. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

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

802.11ax
MCS0
61
3 Meters
5320MHz
64



Plot 7-425. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



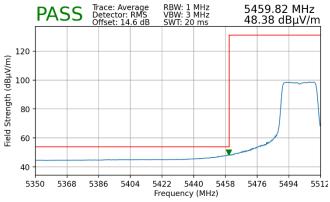
Plot 7-426. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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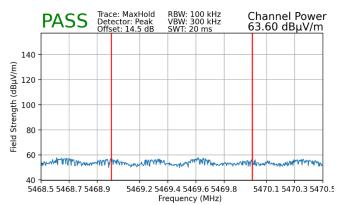


Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS₀ RU Index: 61 Distance of Measurements: 3 Meters 5500MHz Operating Frequency: Channel:

100



Plot 7-427. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C - 242 Tones)



Plot 7-428. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C - 242 Tones)

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



Plot 7-429. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3 - 242 Tones)

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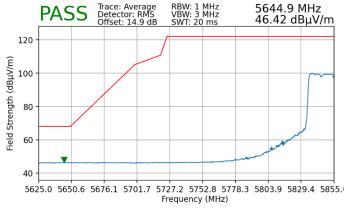


RU Index:

Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
61	
3 Meters	
5845MHz	
169	



Plot 7-430. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4 – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

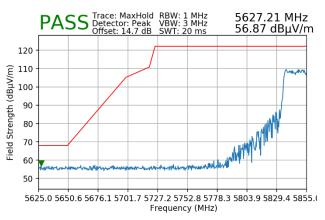
MCS0

61

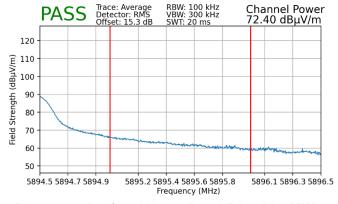
3 Meters

5885MHz

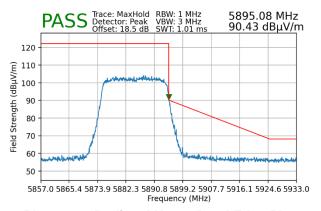
177



Plot 7-431. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 242 Tones)



Plot 7-432. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 242 Tones)



Plot 7-433. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 242 Tones)

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

484 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

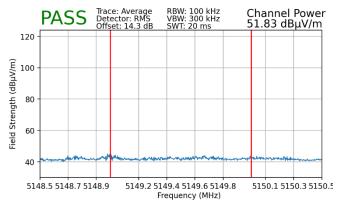
MCS0

65

3 Meters

5190MHz

38



PASS Trace: MaxHold Detector: Peak VBW: 300 kHz VBW: 300 kHz Offset: 14.3 dB VBW: 20 ms 67.79 dBμV/m

Plot 7-434. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

Plot 7-435. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

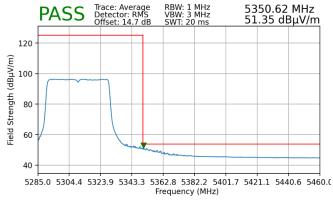
MCS0

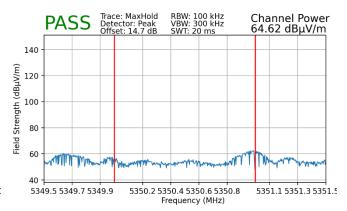
65

3 Meters

5310MHz

62





Plot 7-436. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)

Plot 7-437. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

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Channel:

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

802.11ax

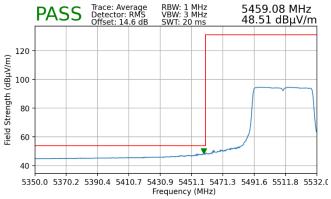
MCS0

65

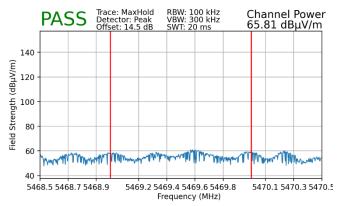
3 Meters

5510MHz

102



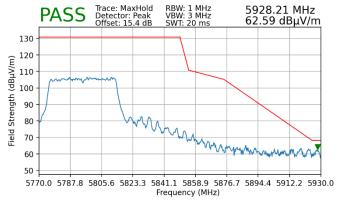
Plot 7-438. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-439. 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 7-440. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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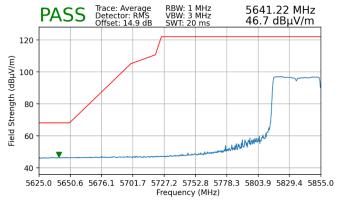


RU Index:

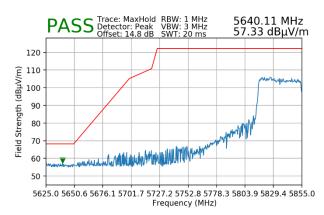
Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
65	
3 Meters	
5835MHz	
167	



Plot 7-441. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4 – 484 Tones)



Plot 7-442. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 484 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

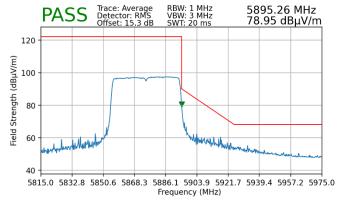
MCS0

65

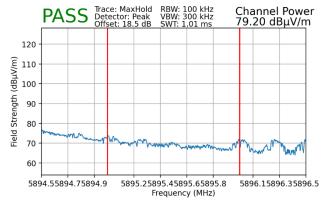
3 Meters

5875MHz

175



Plot 7-443. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 484 Tones)



Plot 7-444. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 484 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.6.8 MIMO Radiated Band Edge Measurements (80MHz BW & 160MHz) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

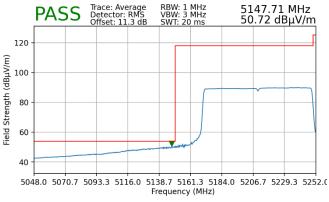
MCS0

67

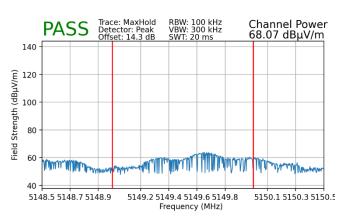
3 Meters

5210MHz

42



Plot 7-445. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)



Plot 7-446. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

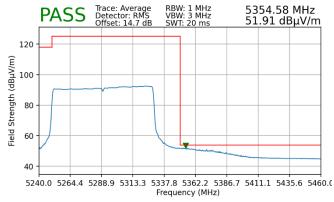
MCS0

67

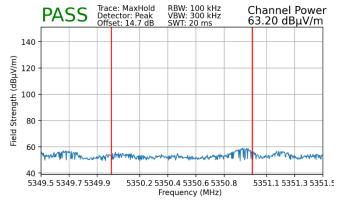
3 Meters

5290MHz

58



Plot 7-447. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



Plot 7-448. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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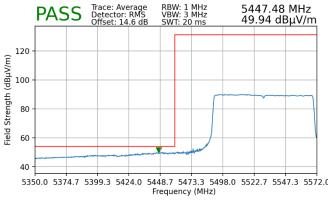


RU Index:

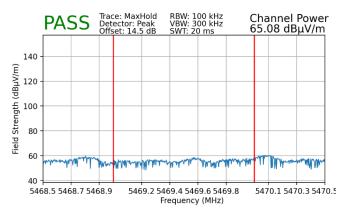
Distance of Measurements: Operating Frequency:

Channel:

	802.11ax
	MCS0
	67
•	3 Meters
•	5530MHz
	106

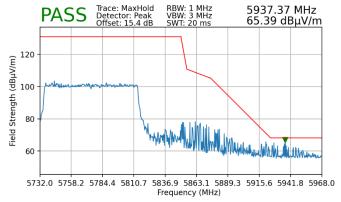


Plot 7-449. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-450. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

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



Plot 7-451. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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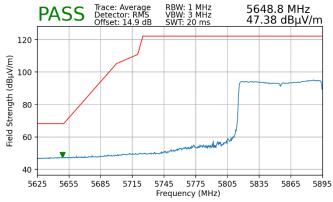


RU Index:

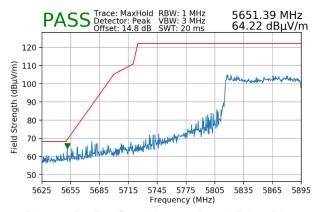
Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
67	
3 Meters	
5855MHz	
171	



Plot 7-452. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4 – 996 Tones)



Plot 7-453. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4– 996 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

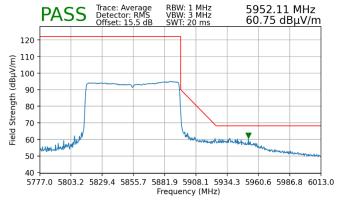
MCS0

67

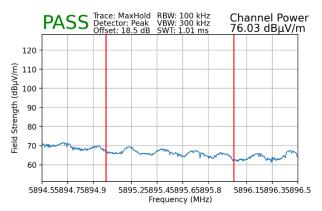
3 Meters

5855MHz

171



Plot 7-454. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 996 Tones)



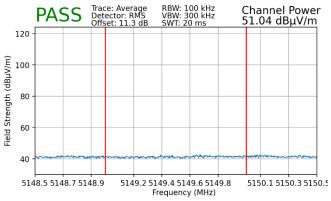
Plot 7-455. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4– 996 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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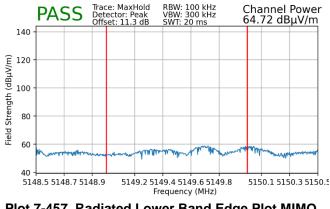


Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS₀ RU Index: 67 Distance of Measurements: 3 Meters 5250MHz Operating Frequency: Channel:

50



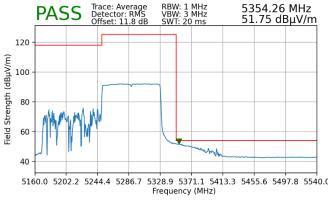
Plot 7-456. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1/2A - 996 Tones)



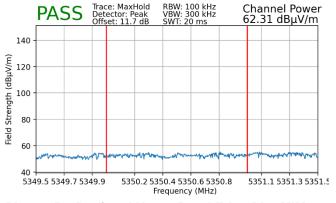
Channel Power

Plot 7-457. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1/2A- 996 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 67 Distance of Measurements: 3 Meters Operating Frequency: 5250MHz Channel: 50



Plot 7-458. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 1/2A - 996 Tones)



Plot 7-459. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 1/2A - 996 Tones)

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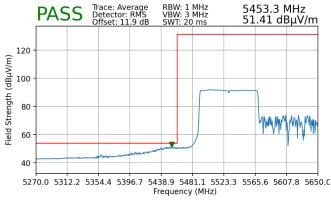


RU Index:

Distance of Measurements: Operating Frequency:

Channel:

802.11ax	
MCS0	
67	
3 Meters	
5570MHz	
11/	



140 120 100 100 40 5468.5 5468.7 5468.9 5469.2 5469.4 5469.6 5469.8 5470.1 5470.3 5470.5 Frequency (MHz)

RBW: 100 kHz VBW: 300 kHz SWT: 20 ms

Channel Power

64.15 dBµV/m

Trace: MaxHold Detector: Peak Offset: 12 dB

PASS

Plot 7-460. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)

Plot 7-461. 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

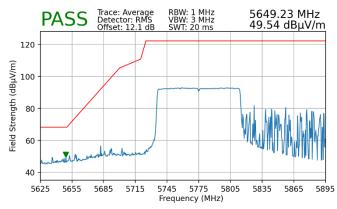
MCS0

67

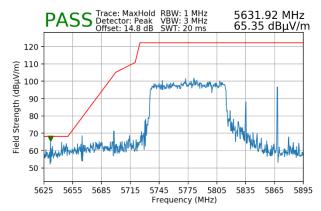
3 Meters

5815MHz

163



Plot 7-462. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4 – 996 Tones)



Plot 7-463. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 996 Tones)

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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

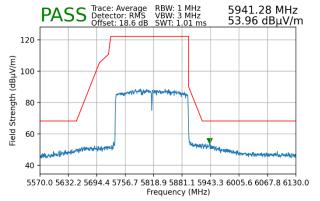
MCS0

67

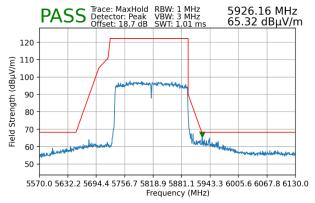
3 Meters

5815MHz

163



Plot 7-464. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 996 Tones)



Plot 7-465. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 996 Tones)

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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CONCLUSION

The data collected relate only the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMF721JPN is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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