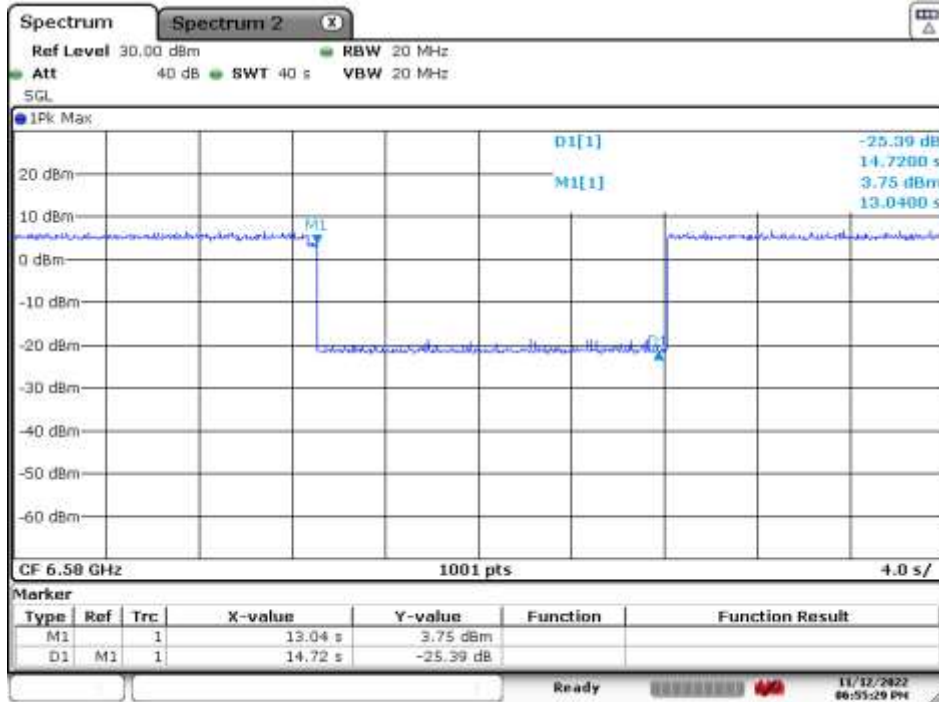


Date: 12.NOV.2022 18:59:18

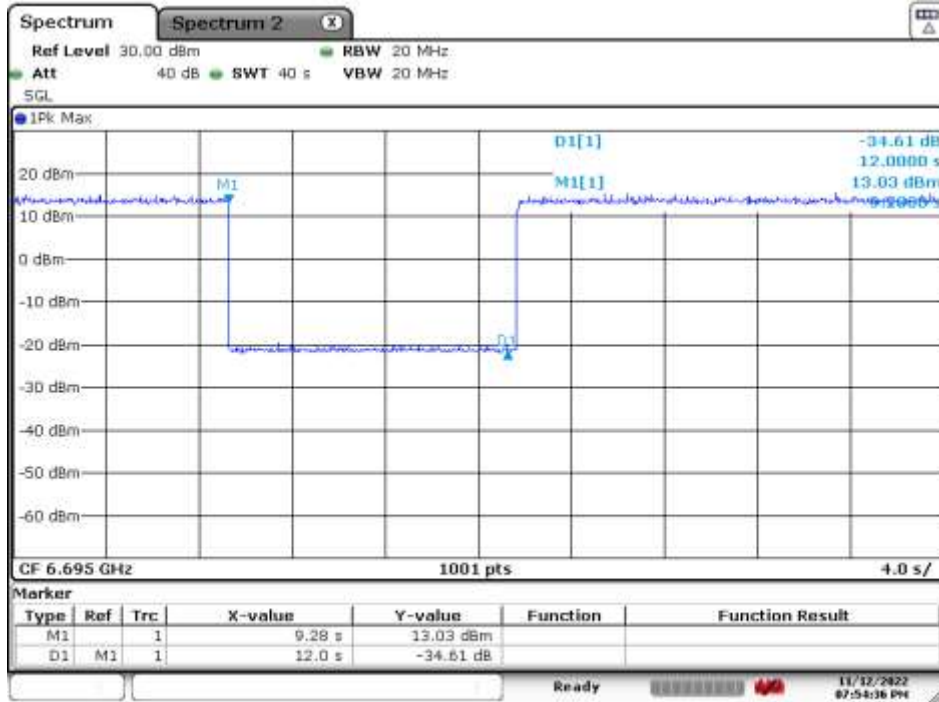
Plot 7-335. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 – Mid



Date: 12.NOV.2022 18:55:29

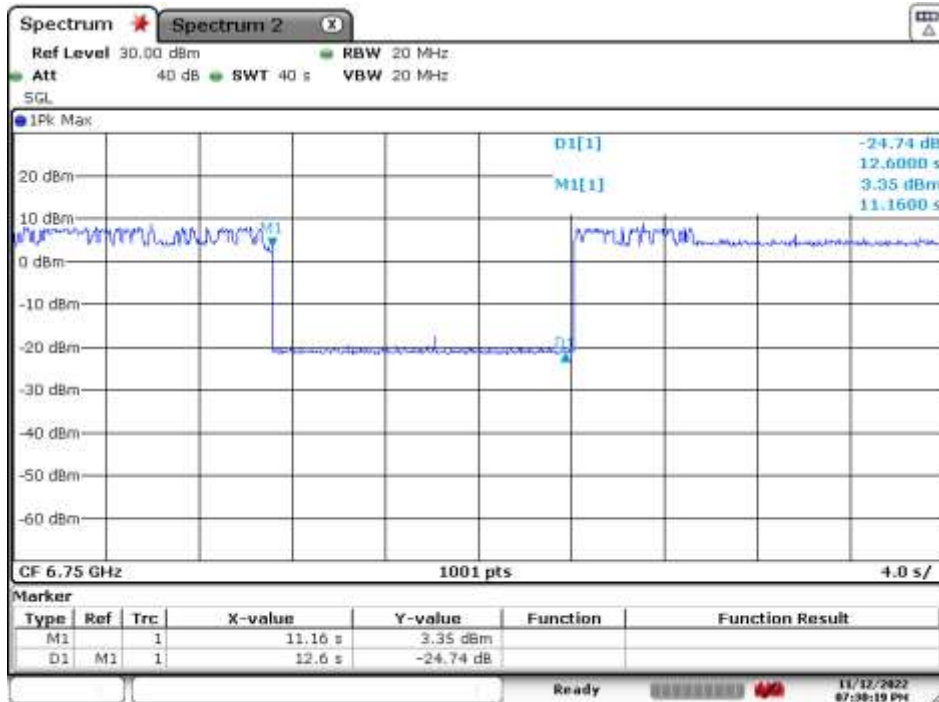
Plot 7-336. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 - High

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 202 of 239



Date: 12.NOV.2022 19:58:35

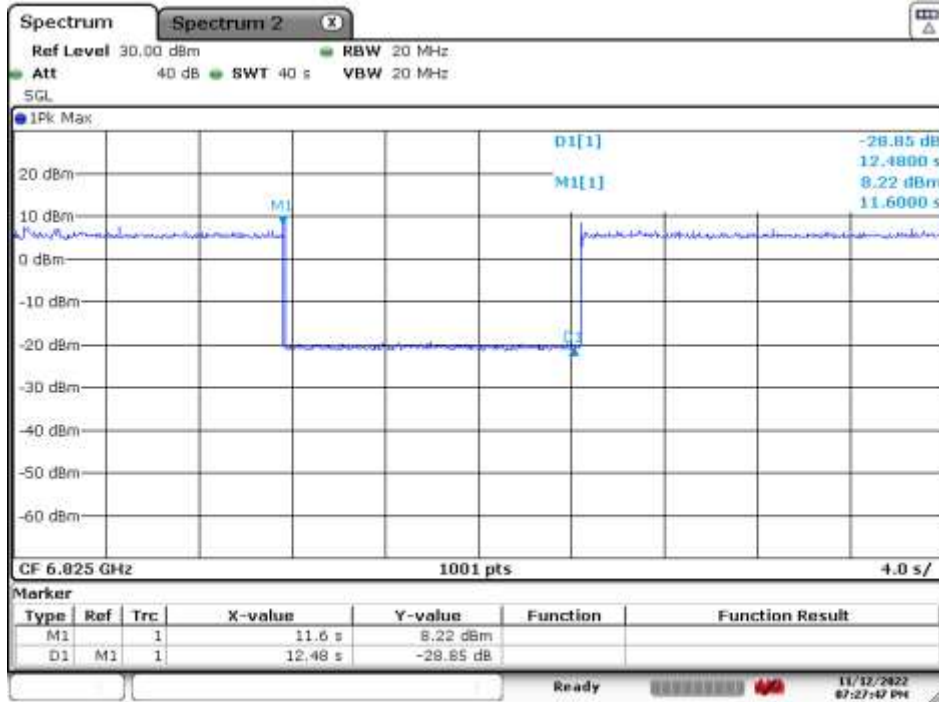
Plot 7-337. Contention Based Protocol Timing Plot – UNII 7 – 20MHz Ch149



Date: 12.NOV.2022 19:30:16

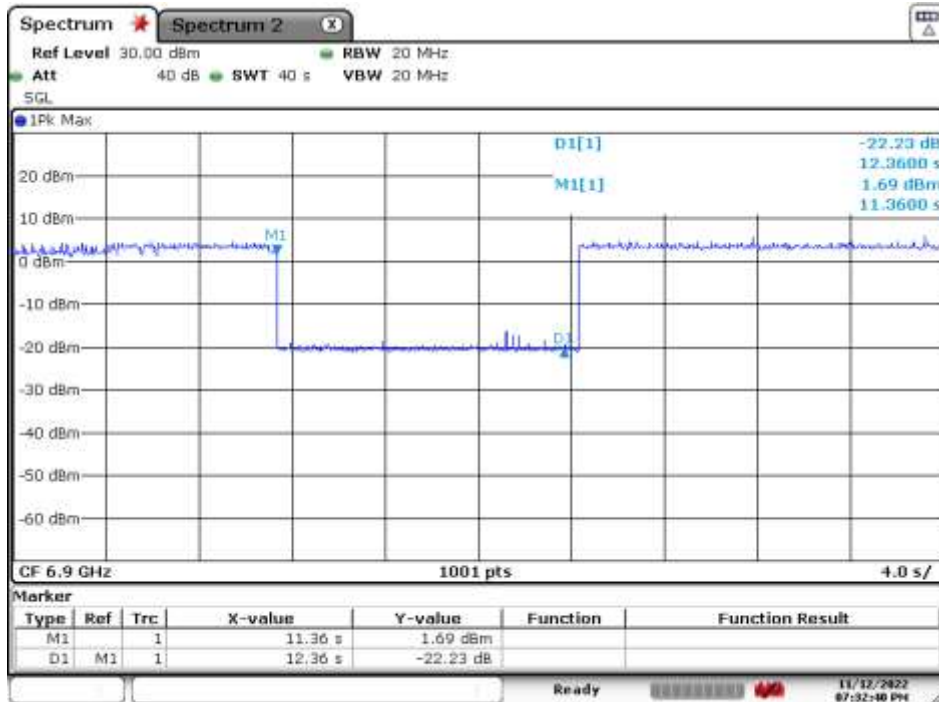
Plot 7-338. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 – Low

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 203 of 239



Date: 12.NOV.2022 19:27:47

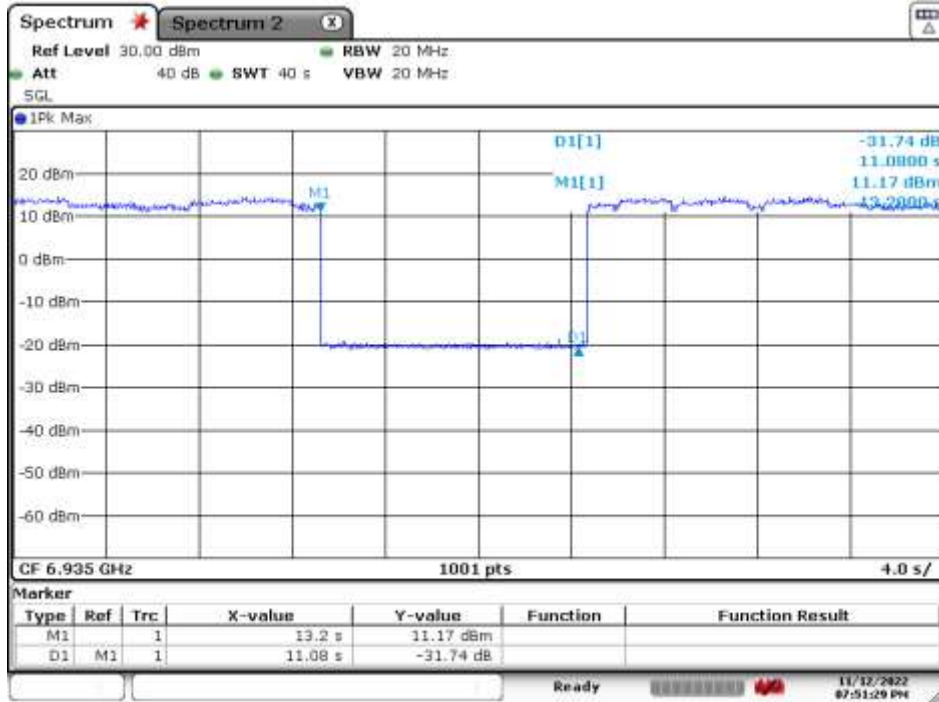
Plot 7-339. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 – Mid



Date: 12.NOV.2022 19:32:40

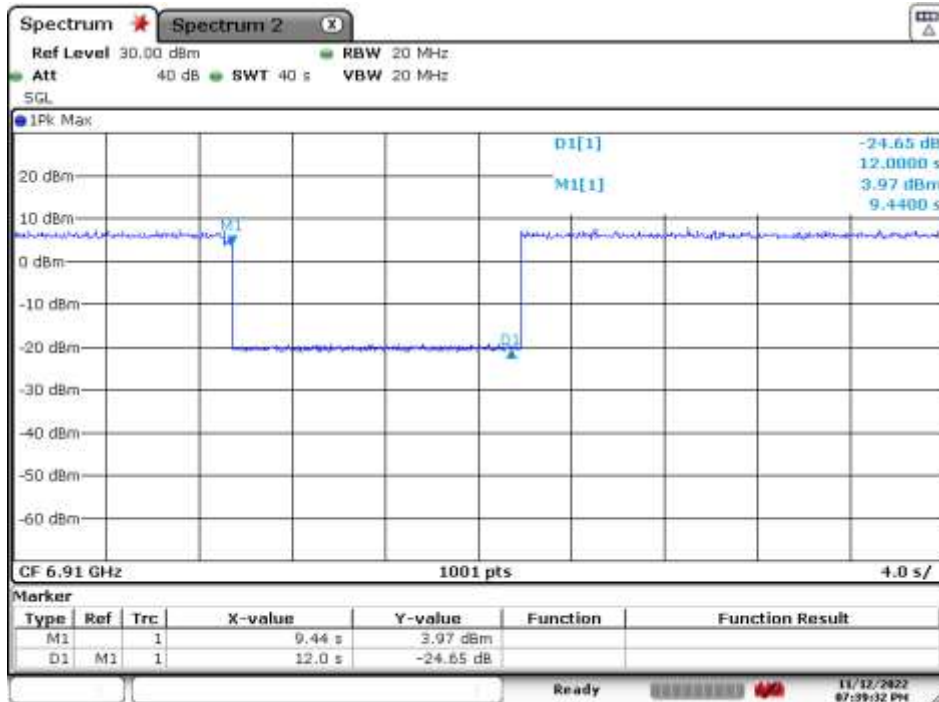
Plot 7-340. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 - High

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 204 of 239



Date: 12-30-V-2022 19:51:29

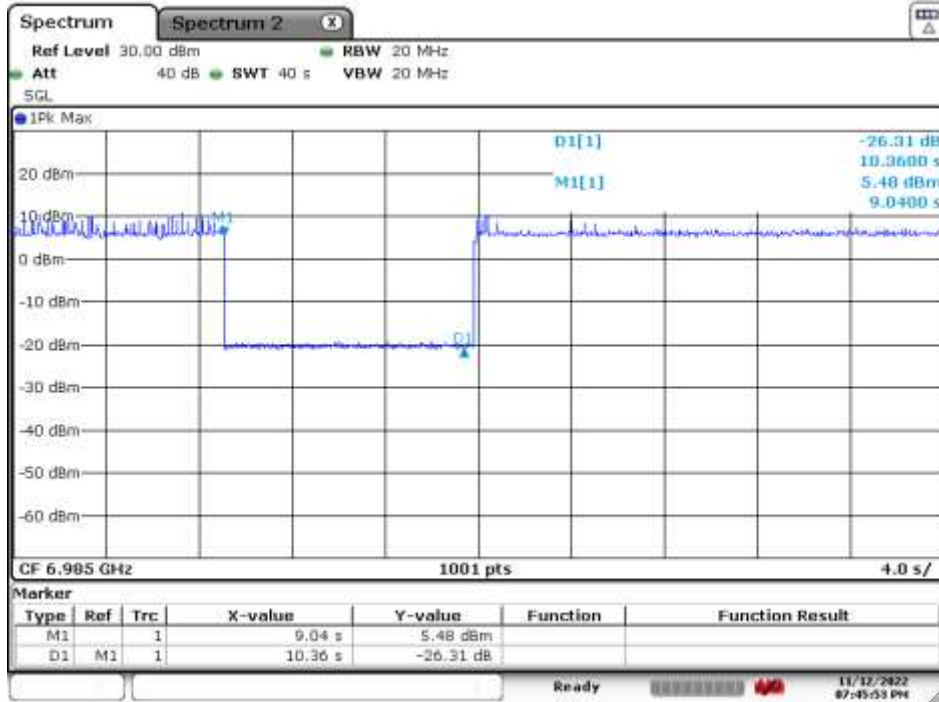
Plot 7-341. Contention Based Protocol Timing Plot – UNII 8 – 20MHz Ch197



Date: 12-30-V-2022 19:39:32

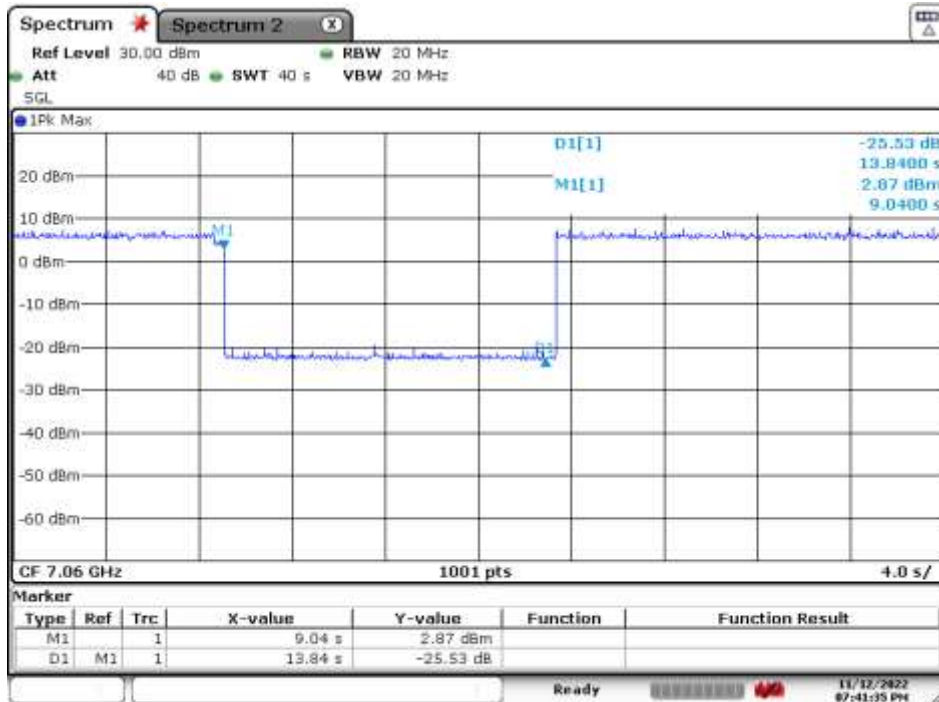
Plot 7-342. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 – Low

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset		Page 205 of 239



Date: 12.NOV.2022 19:45:52

Plot 7-343. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 – Mid



Date: 12.NOV.2022 19:41:34

Plot 7-344. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 - High

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 206 of 239



7.7 Radiated Spurious Emission Measurements – Above 1GHz
§15.205, §15.209, §15.407(b)(6)

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 its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax (20/40/80/160MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27dBm/MHz (68.2dBuV/m at a 3m distance). Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-11. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
 KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

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

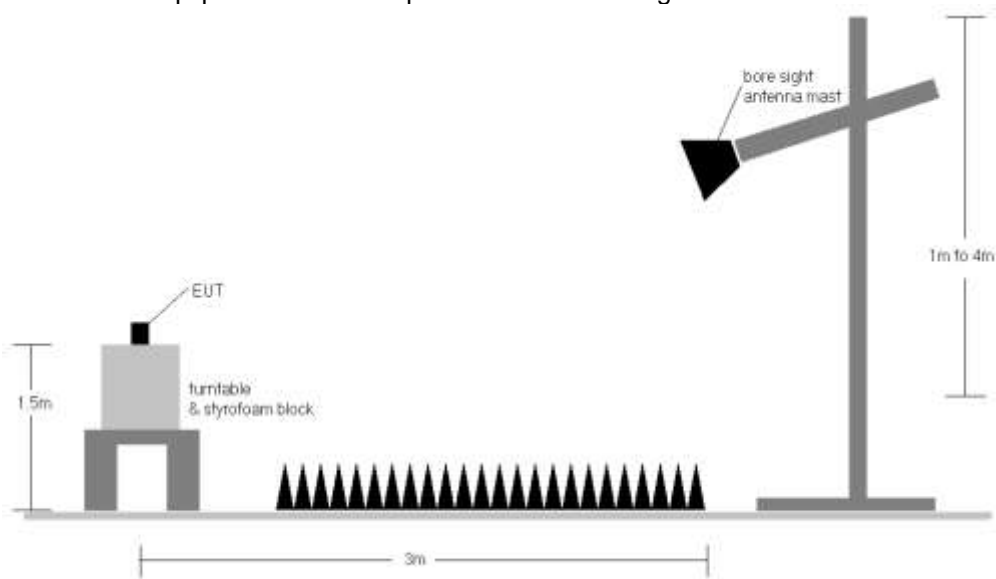


Figure 7-6. Test Instrument & Measurement Setup

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 208 of 239

Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-11. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.

Sample Calculations

Determining Spurious Emissions Levels

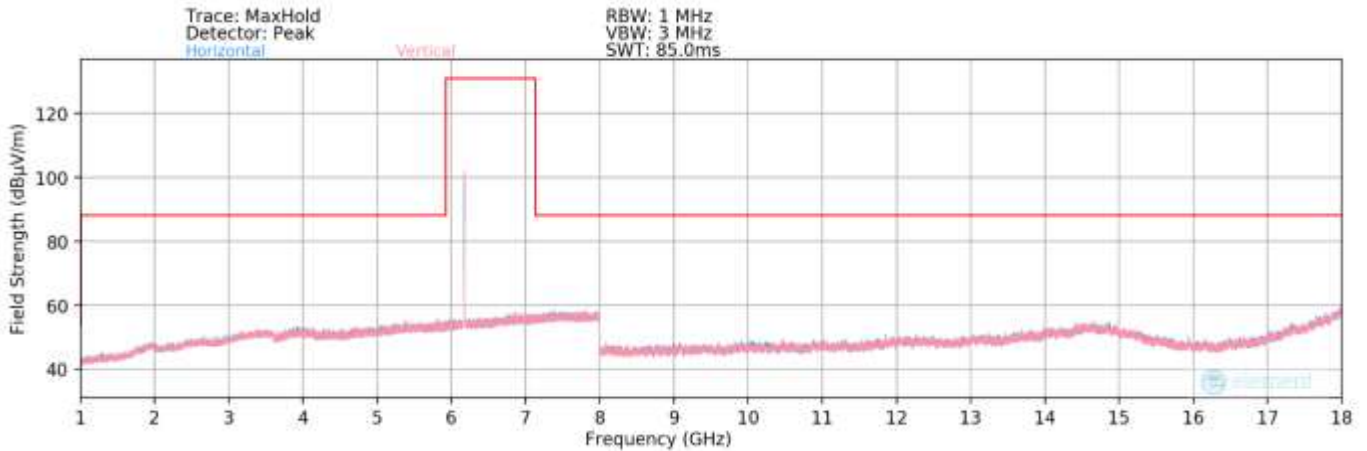
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

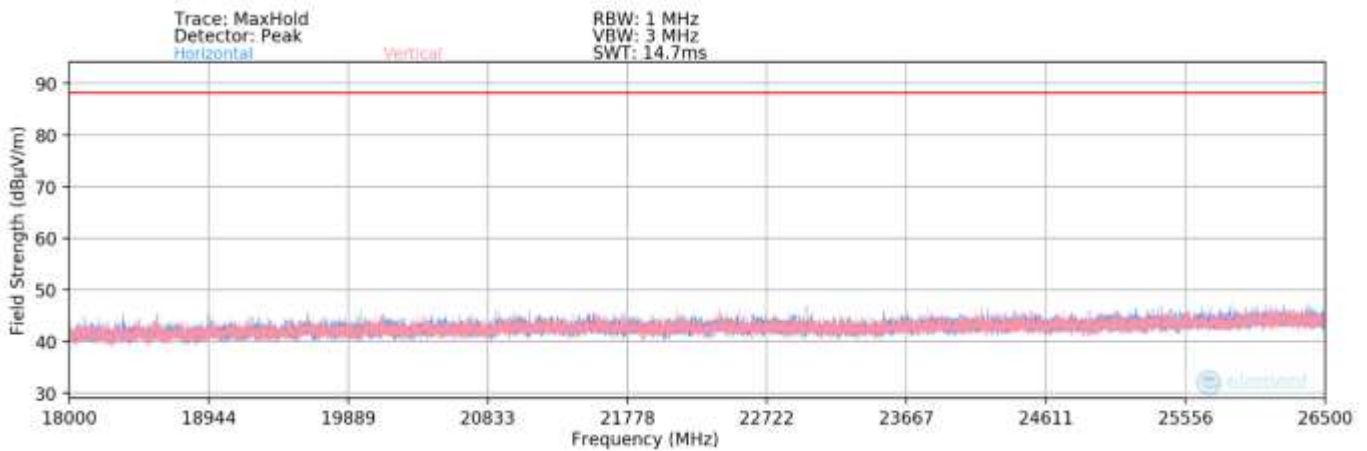
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Pre-amplifier Gain

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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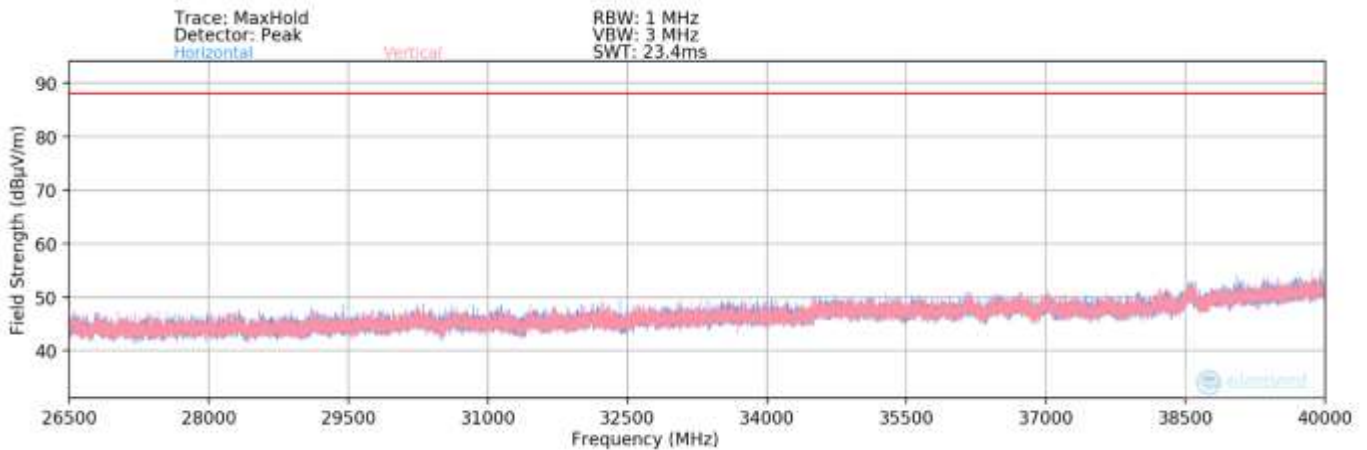
11.7.1 MIMO Radiated Spurious Emission Measurements



Plot 7-345. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII Band 5 – 20MHz – Ch.45)



Plot 7-346. Radiated Spurious Plot above 18GHz - 26.5GHz – CH 45 - MIMO (802.11ax)



Plot 7-347. Radiated Spurious Plot 26.5GHz - 40GHz – CH 45 - MIMO (802.11ax)

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MIMO Radiated Spurious Emission Measurements
§15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2

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]
* 11870.00	Average	H	-	-	-75.17	11.97	0.00	43.80	53.98	-10.18
* 11870.00	Peak	H	-	-	-63.83	11.97	0.00	55.14	73.98	-18.84
* 17805.00	Average	H	-	-	-77.41	19.16	0.00	48.75	53.98	-5.23
* 17805.00	Peak	H	-	-	-63.11	19.16	0.00	63.05	73.98	-10.93
* 23740.00	Average	H	-	-	-71.85	3.89	-9.54	29.50	53.98	-24.48
* 23740.00	Peak	H	-	-	-60.42	3.89	-9.54	40.93	73.98	-33.05
29675.00	Peak	H	-	-	-60.72	6.04	-9.54	42.78	68.20	-25.42

Table 7-12. Radiated Measurements MIMO (UNII Band 5 – Low Channel – 20MHz)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 211 of 239



Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6175MHz
 Channel: 45

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]
* 12350.00	Average	H	-	-	-74.67	12.08	0.00	44.41	53.98	-9.57
* 12350.00	Peak	H	-	-	-62.15	12.08	0.00	56.93	73.98	-17.05
* 18525.00	Average	H	-	-	-66.28	1.68	-9.54	32.86	53.98	-21.12
* 18525.00	Peak	H	-	-	-55.72	1.68	-9.54	43.42	73.98	-30.56
24700.00	Peak	H	-	-	-55.29	4.25	-9.54	46.42	68.20	-21.78
30875.00	Peak	H	-	-	-55.81	6.73	-9.54	48.38	68.20	-19.82

Table 7-13. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6415MHz
 Channel: 93

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]
12830.00	Peak	H	-	-	-62.29	12.39	0.00	57.10	68.20	-11.10
* 19245.00	Average	H	-	-	-66.17	2.45	-9.54	33.74	53.98	-20.24
* 19245.00	Peak	H	-	-	-55.40	2.45	-9.54	44.51	73.98	-29.47
25660.00	Peak	H	-	-	-55.76	4.57	-9.54	46.27	68.20	-21.93
32075.00	Peak	H	-	-	-55.47	6.88	-9.54	48.86	68.20	-19.34

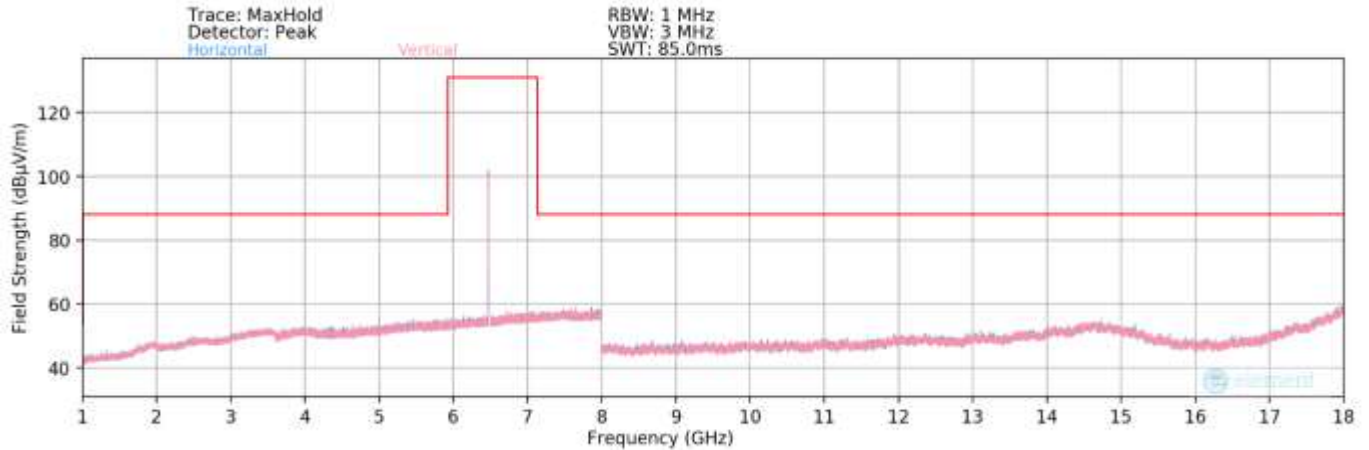
Table 7-14. Radiated Measurements MIMO (UNII Band 5 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6175MHz
 Channel: 45

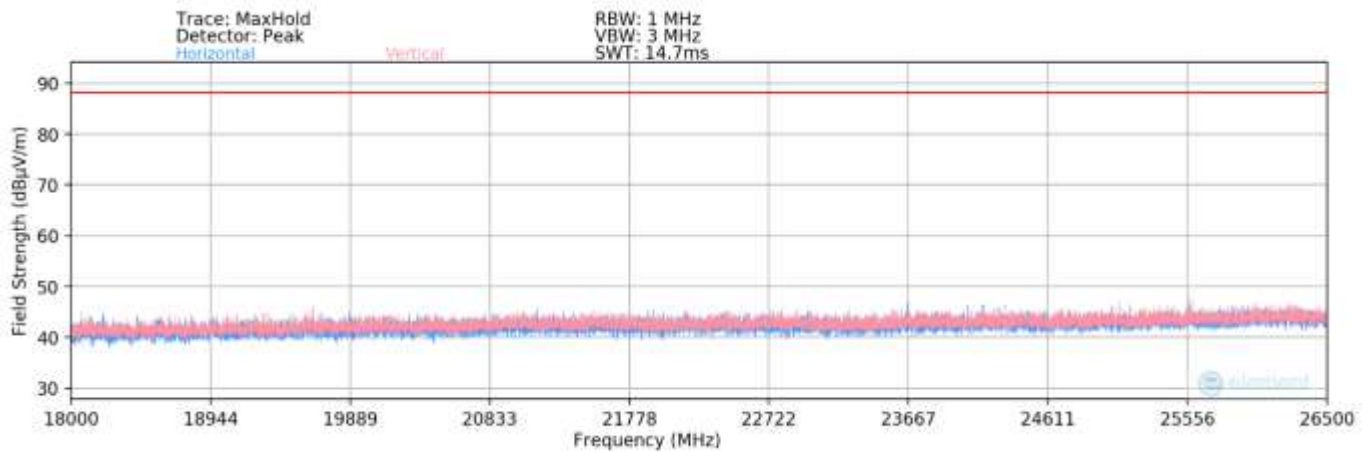
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 12350.00	Average	H	-	-	-76.60	12.08	0.00	42.48	53.98	-11.50
* 12350.00	Peak	H	-	-	-65.83	12.08	0.00	53.25	73.98	-20.73
* 18525.00	Average	H	-	-	-66.16	1.68	-9.54	32.98	53.98	-21.00
* 18525.00	Peak	H	-	-	-55.06	1.68	-9.54	44.08	73.98	-29.90
24700.00	Peak	H	-	-	-55.21	4.25	-9.54	46.50	68.20	-21.70
30875.00	Peak	H	-	-	-55.86	6.73	-9.54	48.33	68.20	-19.87

Table 7-15. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz) with WCP

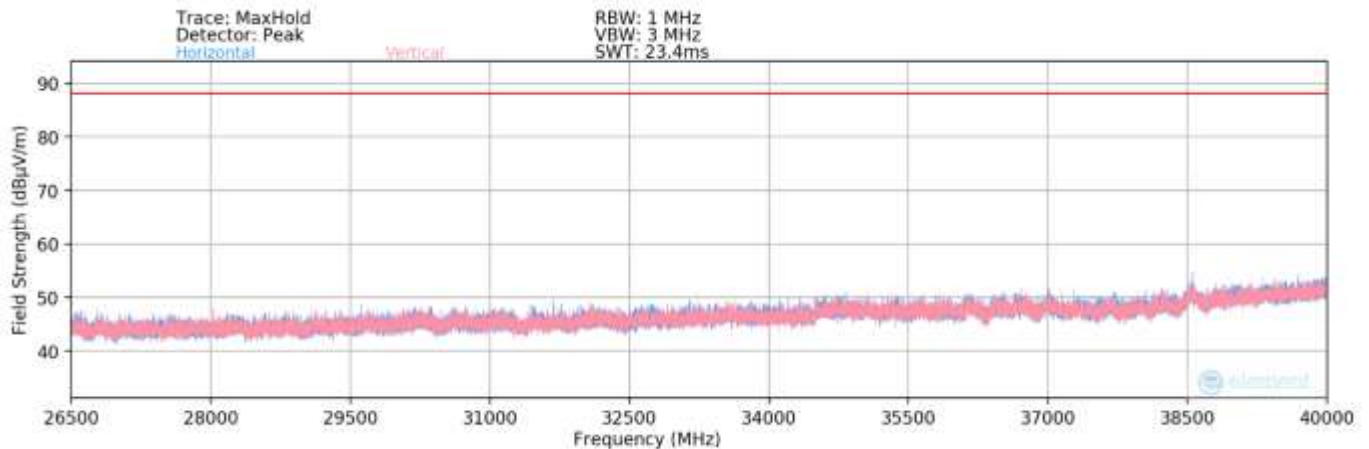
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-348. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 6 - 20MHz - Ch.105)



Plot 7-349. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 105 - MIMO (802.11ax)



Plot 7-350. Radiated Spurious Plot 26.5GHz - 40GHz - CH 105 - MIMO (802.11ax)

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6435MHz
 Channel: 97

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]
12870.00	Peak	H	-	-	-65.03	12.51	0.00	54.48	68.20	-13.72
* 19305.00	Average	H	-	-	-66.18	2.29	-9.54	33.57	53.98	-20.41
* 19305.00	Peak	H	-	-	-55.66	2.29	-9.54	44.09	73.98	-29.89
25740.00	Peak	H	-	-	-55.90	4.49	-9.54	46.04	68.20	-22.16
32175.00	Peak	H	-	-	-55.15	7.04	-9.54	49.35	68.20	-18.85

Table 7-16. Radiated Measurements MIMO (UNII Band 6 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6475MHz
 Channel: 105

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]
12950.00	Peak	H	-	-	-66.02	12.67	0.00	53.65	68.20	-14.55
* 19425.00	Average	H	-	-	-66.50	2.36	-9.54	33.32	53.98	-20.66
* 19425.00	Peak	H	-	-	-55.86	2.36	-9.54	43.96	73.98	-30.02
25900.00	Peak	H	-	-	-55.32	4.84	-9.54	46.97	68.20	-21.23
32375.00	Peak	H	-	-	-56.00	6.78	-9.54	48.24	68.20	-19.96

Table 7-17. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6515MHz
 Channel: 113

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]
13030.00	Peak	H	-	-	-66.44	12.83	0.00	53.39	68.20	-14.81
* 19545.00	Average	H	-	-	-72.31	2.31	-9.54	27.46	53.98	-26.52
* 19545.00	Peak	H	-	-	-61.97	2.31	-9.54	37.80	73.98	-36.18
26060.00	Peak	H	-	-	-61.05	4.92	-9.54	41.33	68.20	-26.87
32575.00	Peak	H	-	-	-59.26	6.55	-9.54	44.75	68.20	-23.45

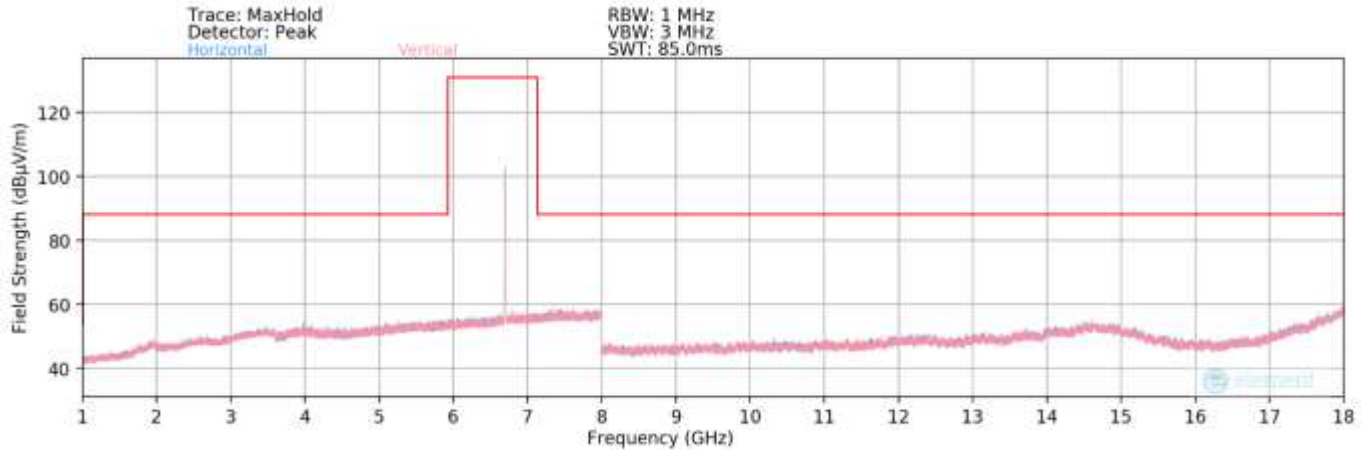
Table 7-18. Radiated Measurements MIMO (UNII Band 6 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6475MHz
 Channel: 105

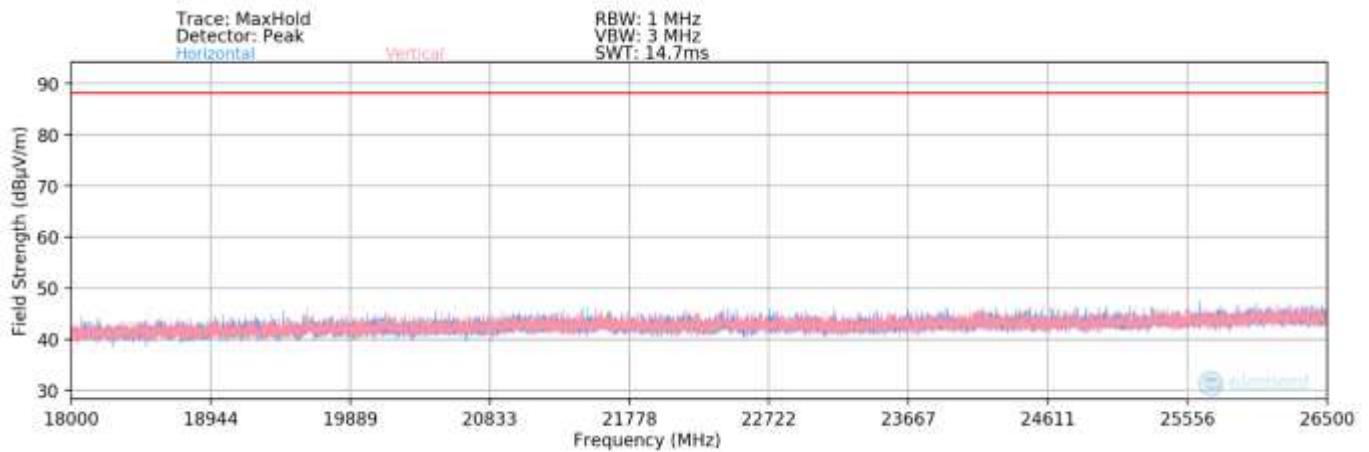
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
12950.00	Peak	H	-	-	-66.06	12.67	0.00	53.61	68.20	-14.59
* 19425.00	Average	H	-	-	-66.50	2.36	-9.54	33.32	53.98	-20.66
* 19425.00	Peak	H	-	-	-56.27	2.36	-9.54	43.55	73.98	-30.43
25900.00	Peak	H	-	-	-55.67	4.84	-9.54	46.62	68.20	-21.58
32375.00	Peak	H	-	-	-56.80	6.78	-9.54	47.44	68.20	-20.76

Table 7-19. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz) with WCP

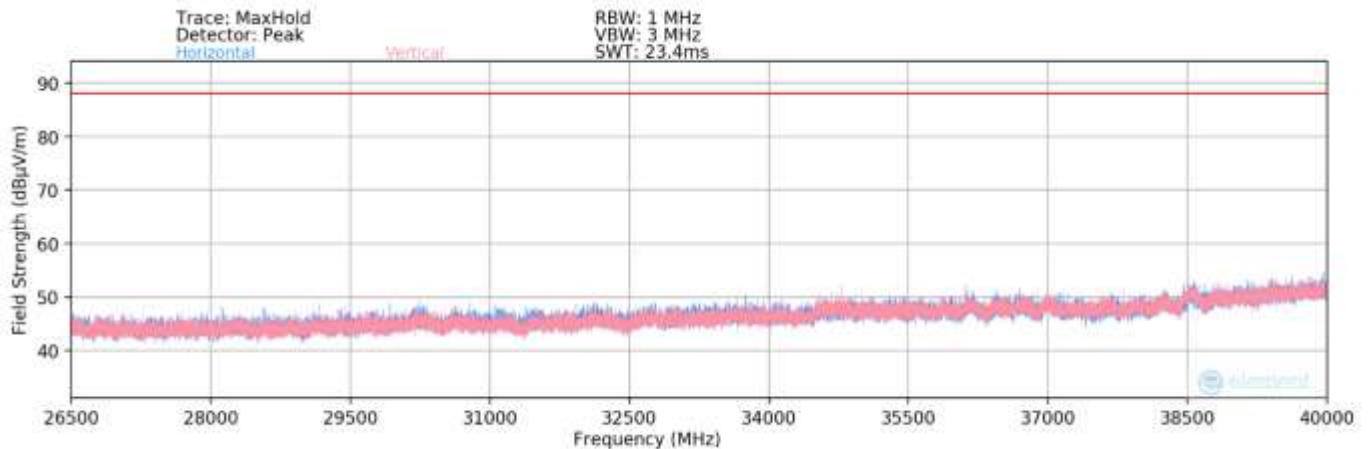
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 7 - 20MHz - Ch.149)



Plot 7-352. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 149 - MIMO (802.11ax)



Plot 7-353. Radiated Spurious Plot 26.5GHz - 40GHz - CH 149 - MIMO (802.11ax)

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6535MHz
 Channel: 117

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]
13070.00	Peak	H	-	-	-66.13	12.94	0.00	53.81	68.20	-14.39
* 19605.00	Average	H	-	-	-66.31	2.79	-9.54	33.94	53.98	-20.04
* 19605.00	Peak	H	-	-	-55.31	2.79	-9.54	44.94	73.98	-29.04
26140.00	Peak	H	-	-	-55.54	4.83	-9.54	46.75	68.20	-21.45
32675.00	Peak	H	-	-	-55.26	6.85	-9.54	49.05	68.20	-19.15

Table 7-20. Radiated Measurements MIMO (UNII Band 7 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 13390.00	Average	H	-	-	-79.08	12.97	0.00	40.89	53.98	-13.09
* 13390.00	Peak	H	-	-	-65.75	12.97	0.00	54.22	73.98	-19.76
* 20085.00	Average	H	-	-	-66.44	3.04	-9.54	34.06	53.98	-19.92
* 20085.00	Peak	H	-	-	-55.72	3.04	-9.54	44.78	73.98	-29.20
26780.00	Peak	H	-	-	-55.36	5.16	-9.54	47.26	68.20	-20.94
33475.00	Peak	H	-	-	-54.98	7.26	-9.54	49.74	68.20	-18.46

Table 7-21. Radiated Measurements MIMO (UNII Band 7 – Mid Channel – 20MHz)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080136-12-R1.A3L	Test Dates: 9/3/2022 – 11/22/2022	EUT Type: Portable Handset	Page 218 of 239

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6875MHz
 Channel: 185

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]
13750.00	Peak	H	-	-	-66.09	13.83	0.00	54.74	68.20	-13.46
* 20625.00	Average	H	-	-	-67.44	3.28	-9.54	33.30	53.98	-20.68
* 20625.00	Peak	H	-	-	-56.68	3.28	-9.54	44.06	73.98	-29.92
27500.00	Peak	H	-	-	-55.81	4.79	-9.54	46.43	68.20	-21.77
34375.00	Peak	H	-	-	-55.01	7.69	-9.54	50.14	68.20	-18.06

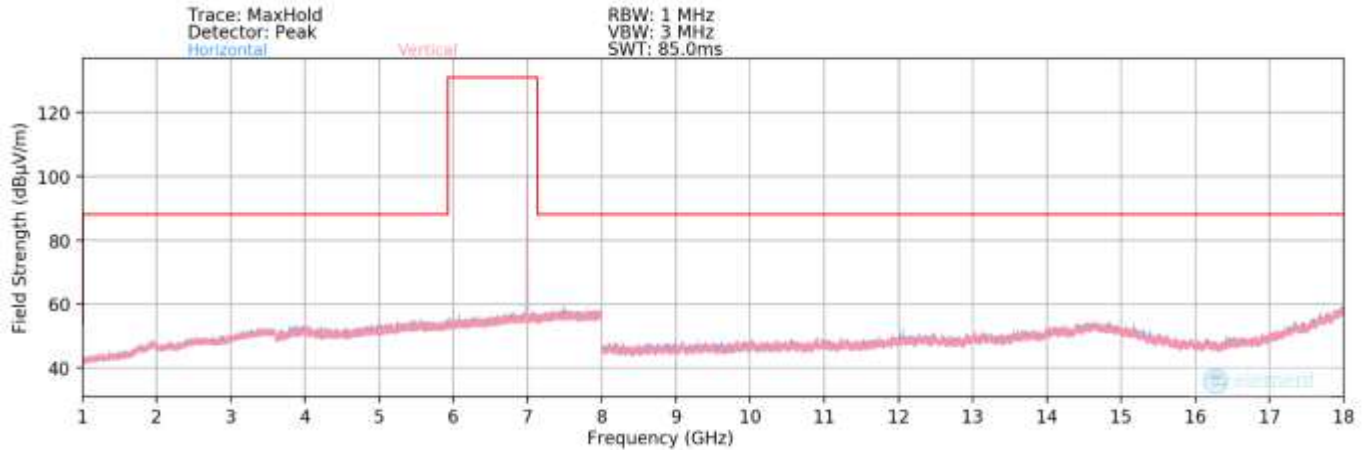
Table 7-22. Radiated Measurements MIMO (UNII Band 7 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6535MHz
 Channel: 117

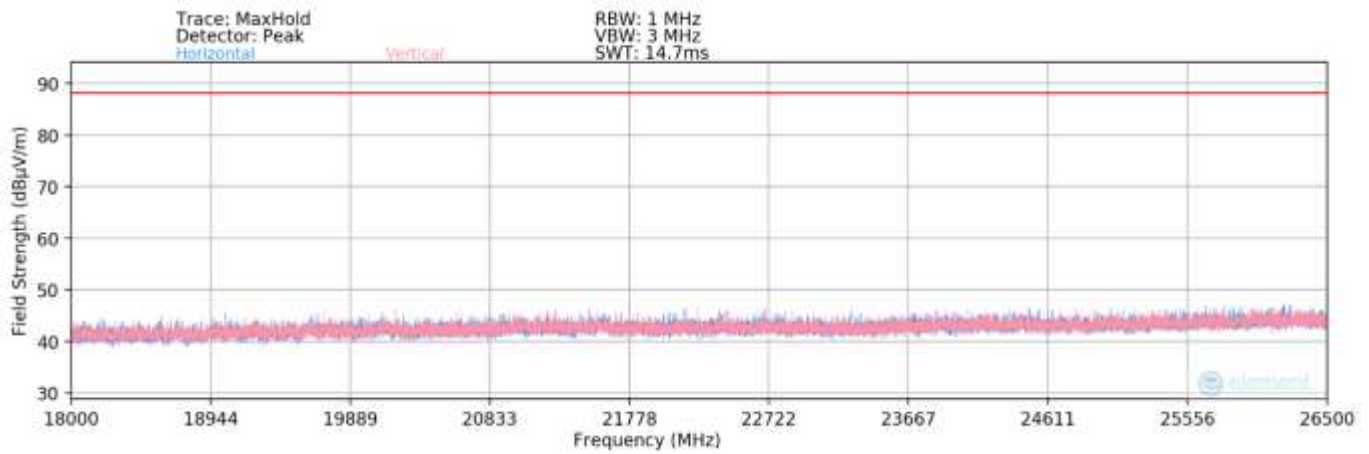
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 13390.00	Average	H	-	-	-77.08	12.97	0.00	42.89	53.98	-11.09
* 13390.00	Peak	H	-	-	-65.91	12.97	0.00	54.06	73.98	-19.92
* 20085.00	Average	H	-	-	-66.09	3.04	-9.54	34.41	53.98	-19.57
* 20085.00	Peak	H	-	-	-55.57	3.04	-9.54	44.93	73.98	-29.05
26780.00	Peak	H	-	-	-55.10	5.16	-9.54	47.52	68.20	-20.68
33475.00	Peak	H	-	-	-55.04	7.26	-9.54	49.68	68.20	-18.52

Table 7-23. Radiated Measurements MIMO (UNII Band 7 – Mid Channel – 20MHz) with WCP

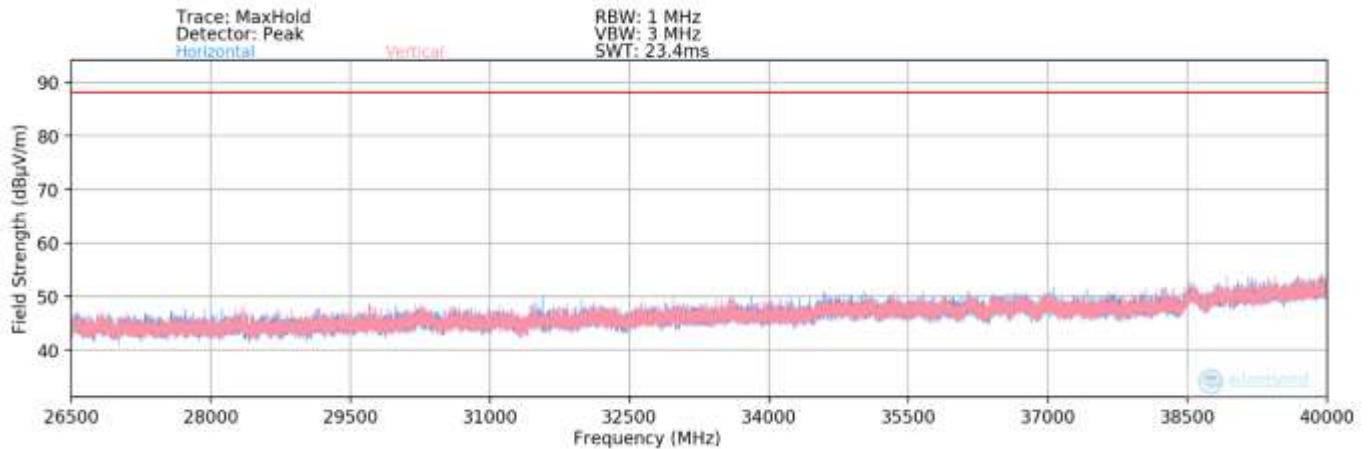
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-354. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 8 - 20MHz - Ch.209)



Plot 7-355. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 209 - MIMO (802.11ax)



Plot 7-356. Radiated Spurious Plot 26.5GHz - 40GHz - CH 209 - MIMO (802.11ax)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements
 §15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6895MHz
 Channel: 189

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]
13790.00	Peak	H	-	-	-63.79	13.66	0.00	56.87	68.20	-11.33
* 20685.00	Average	H	-	-	-68.91	3.27	-9.54	31.82	53.98	-22.16
* 20685.00	Peak	H	-	-	-55.92	3.27	-9.54	44.81	73.98	-29.17
27580.00	Peak	H	-	-	-55.50	5.23	-9.54	47.19	68.20	-21.01
34475.00	Peak	H	-	-	-55.42	7.64	-9.54	49.67	68.20	-18.53

Table 7-24. Radiated Measurements MIMO (UNII Band 8 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6995MHz
 Channel: 209

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]
13990.00	Peak	H	-	-	-64.67	13.89	0.00	56.22	68.20	-11.98
* 20985.00	Average	H	-	-	-73.19	3.46	-9.54	27.73	53.98	-26.25
* 20985.00	Peak	H	-	-	-62.26	3.46	-9.54	38.66	73.98	-35.32
27980.00	Peak	H	-	-	-61.54	5.02	-9.54	40.93	68.20	-27.27
34975.00	Peak	H	-	-	-57.80	7.91	-9.54	47.56	68.20	-20.64

Table 7-25. Radiated Measurements MIMO (UNII Band 8 – Mid Channel – 20MHz)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233

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]
14230.00	Peak	H	-	-	-64.34	14.92	0.00	57.58	68.20	-10.62
* 21345.00	Average	H	-	-	-66.71	3.78	-9.54	34.53	53.98	-19.45
* 21345.00	Peak	H	-	-	-56.70	3.78	-9.54	44.54	73.98	-29.44
28460.00	Peak	H	-	-	-56.07	5.45	-9.54	46.84	68.20	-21.36
35575.00	Peak	H	-	-	-54.32	7.65	-9.54	50.79	68.20	-17.41

Table 7-26. Radiated Measurements MIMO (UNII Band 8 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6995MHz
 Channel: 209

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]
13990.00	Peak	H	-	-	-65.71	13.89	0.00	55.18	68.20	-13.02
* 20985.00	Average	H	-	-	-67.13	3.46	-9.54	33.79	53.98	-20.19
* 20985.00	Peak	H	-	-	-57.17	3.46	-9.54	43.75	73.98	-30.23
27980.00	Peak	H	-	-	-56.21	5.02	-9.54	46.27	68.20	-21.93
34975.00	Peak	H	-	-	-54.81	7.91	-9.54	50.56	68.20	-17.64

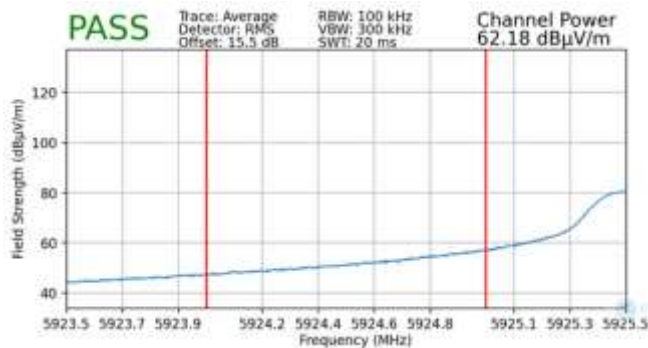
Table 7-27. Radiated Measurements MIMO (UNII Band 8 – Mid Channel – 20MHz) with WCP

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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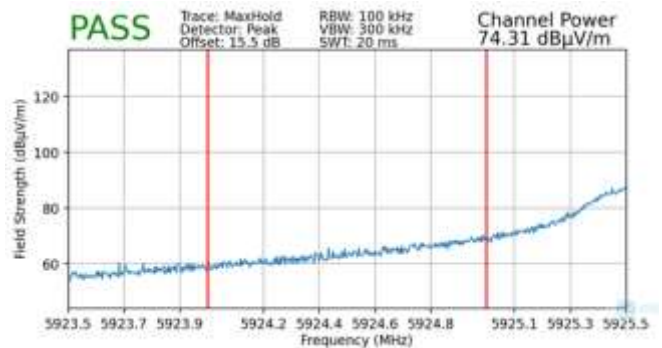
11.7.2 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b)(6) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

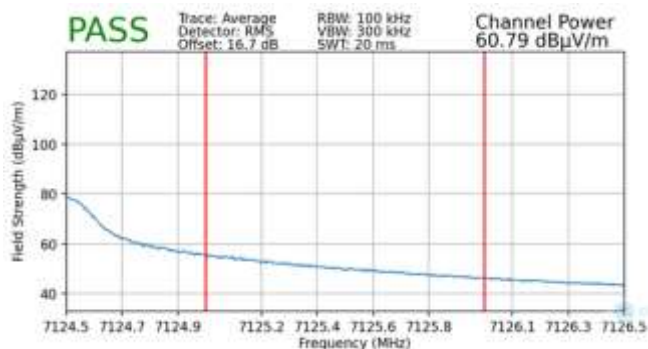


Plot 7-357. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

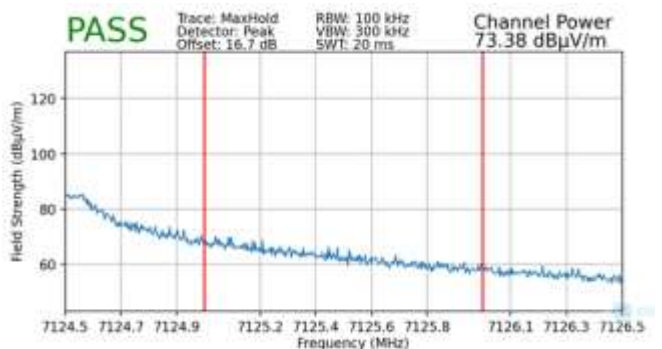


Plot 7-358. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-359. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

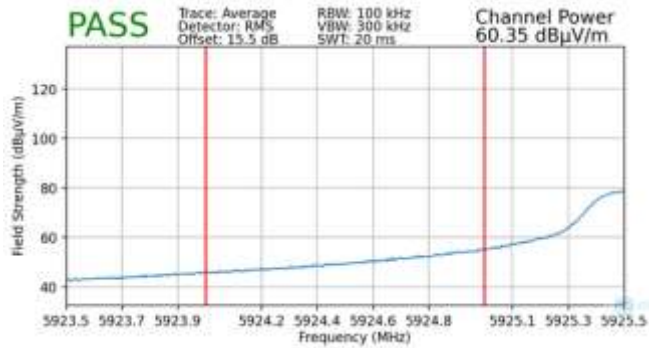


Plot 7-360. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

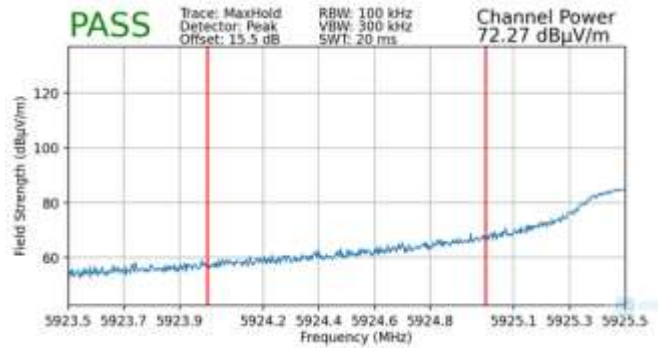
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2



Plot 7-361. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) with WCP

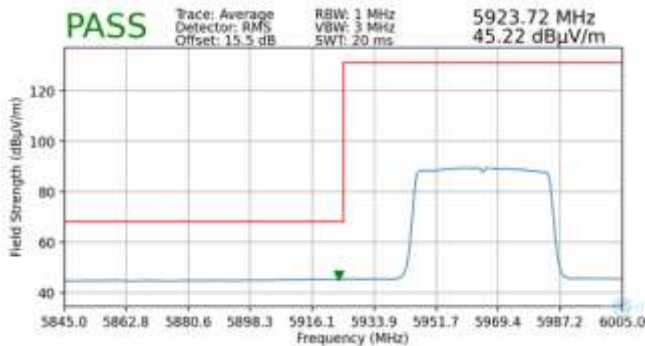


Plot 7-362. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) with WCP

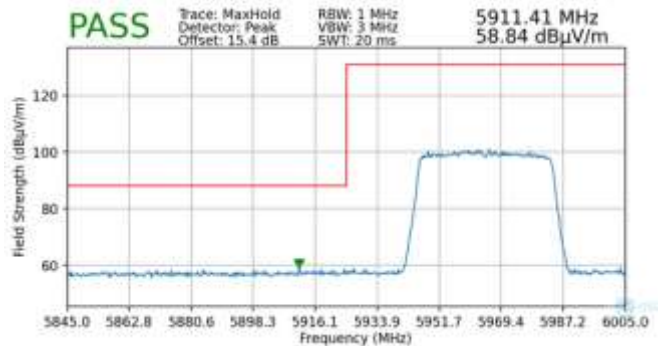
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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11.7.3 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

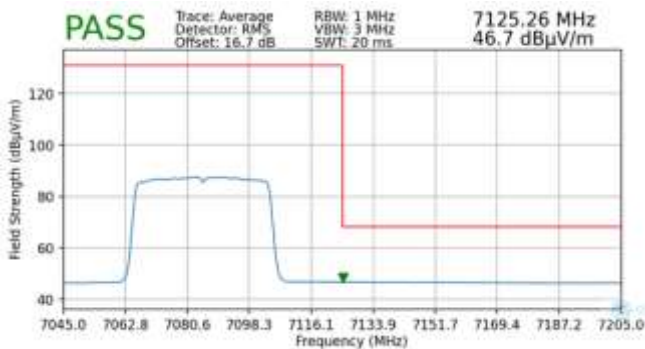


Plot 7-363. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

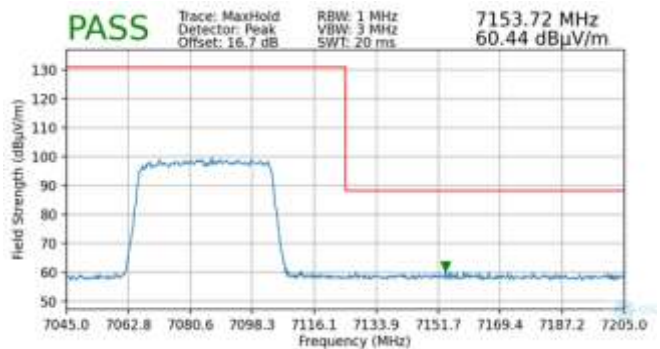


Plot 7-364. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-365. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

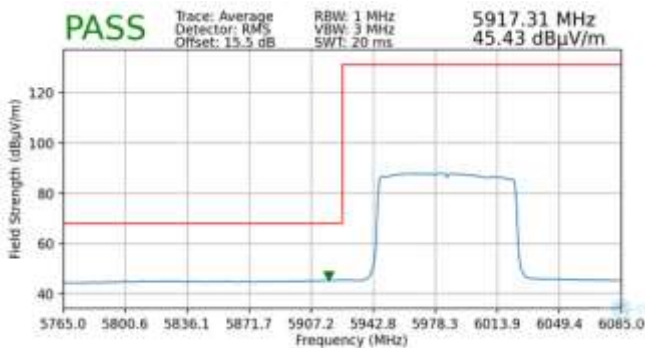


Plot 7-366. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

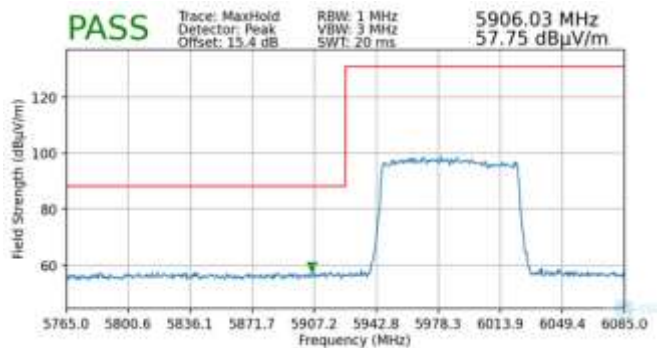
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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11.7.4 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

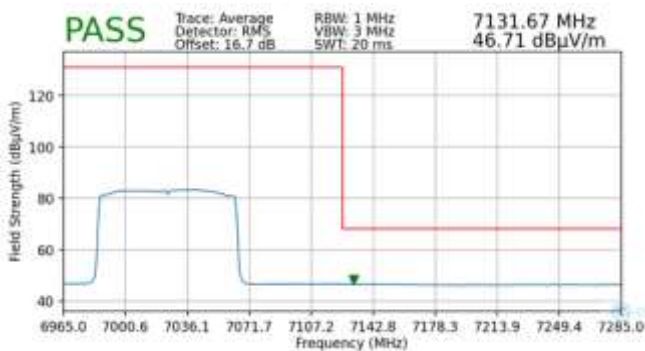


Plot 7-367. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

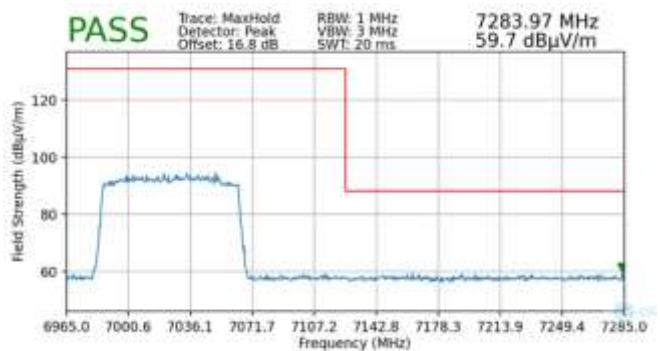


Plot 7-368. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-369. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

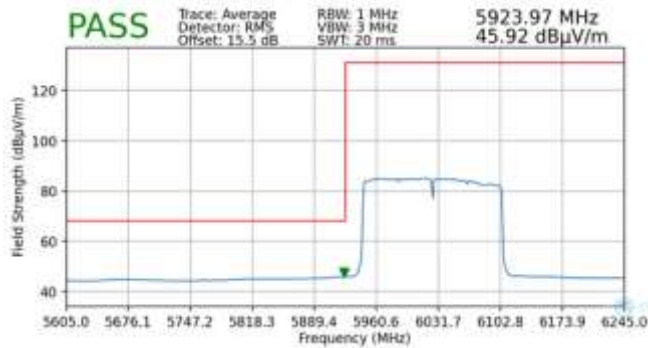


Plot 7-370. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

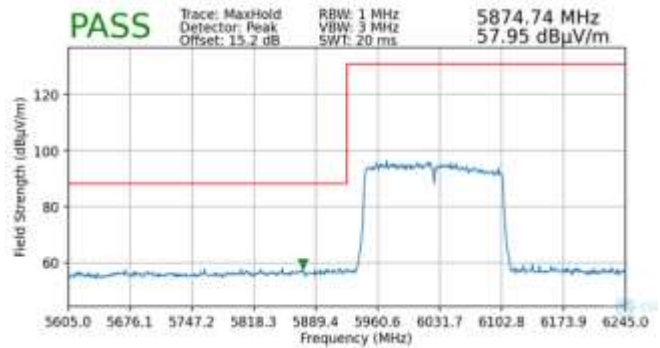
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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11.7.5 MIMO Radiated Band Edge Measurements (160MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

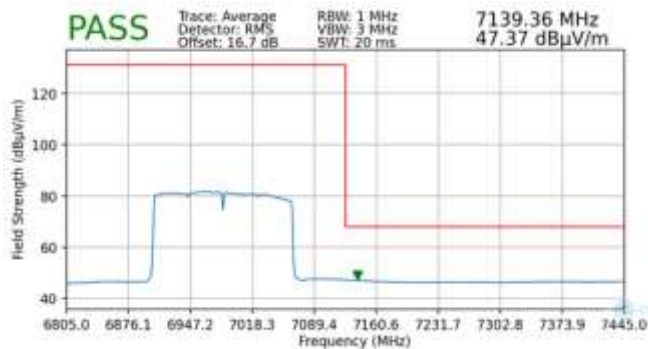


Plot 7-371. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

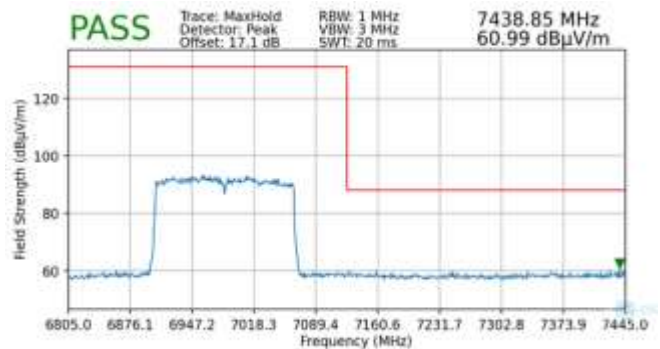


Plot 7-372. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-373. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-374. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

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7.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209

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 emissions < 960MHz must not exceed the limit shown in Table 7-28 per Section 15.209

Frequency	Field Strength [$\mu\text{V/m}$]	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 7-28. 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
2. 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.

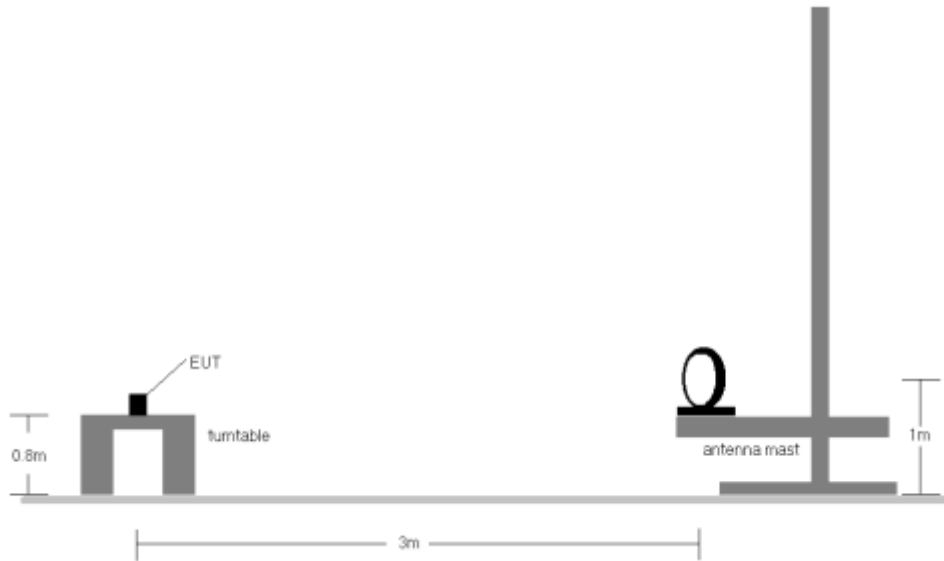


Figure 7-7. Radiated Test Setup < 30MHz

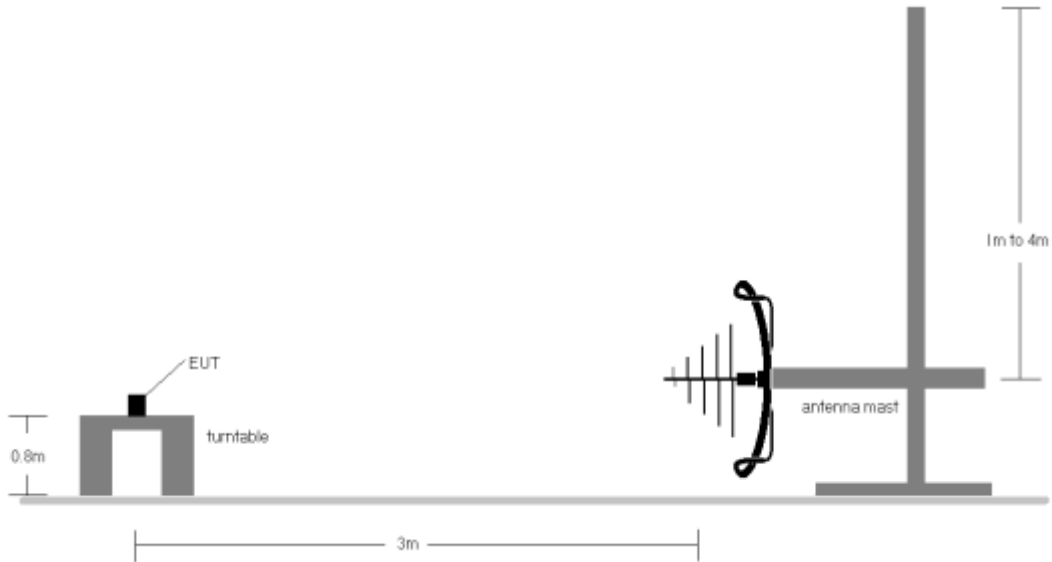


Figure 7-8. Radiated Test Setup < 1GHz

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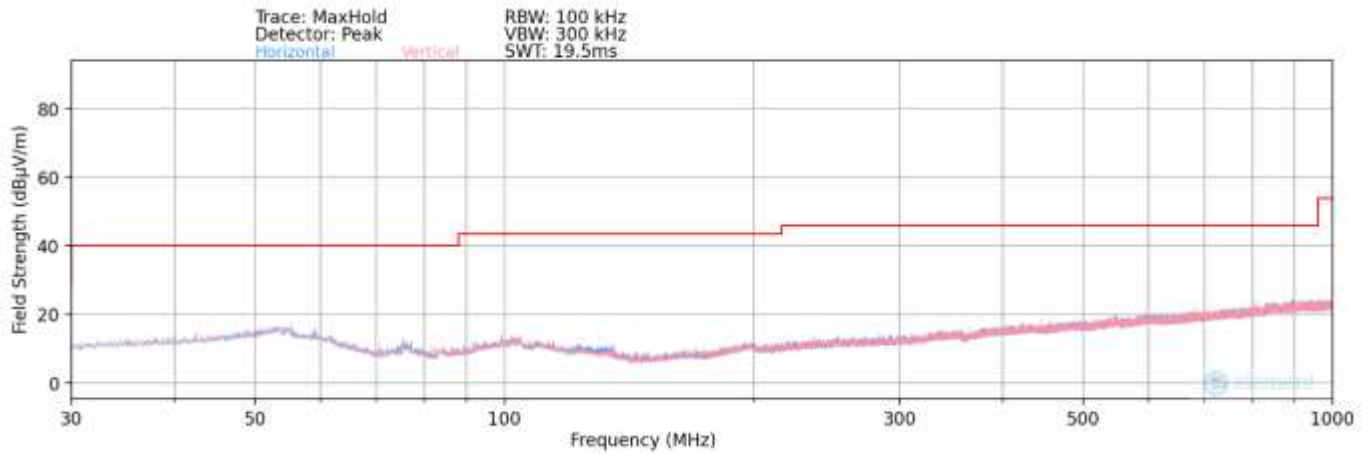
Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-28.
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.

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209



Plot 7-375. Radiated Spurious Plot below 1GHz

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]
834.00	Quasi-Peak	V	-	-	-91.11	-4.48	11.41	46.02	-34.61

Plot 7-376. Radiated Spurious Data below 1GHz

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7.9 Line-Conducted Test Data

§15.407(b)(9)

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.

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

Table 7-29. Conducted Limits

*Decreases with the logarithm of the frequency.

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
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
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 diagram below.

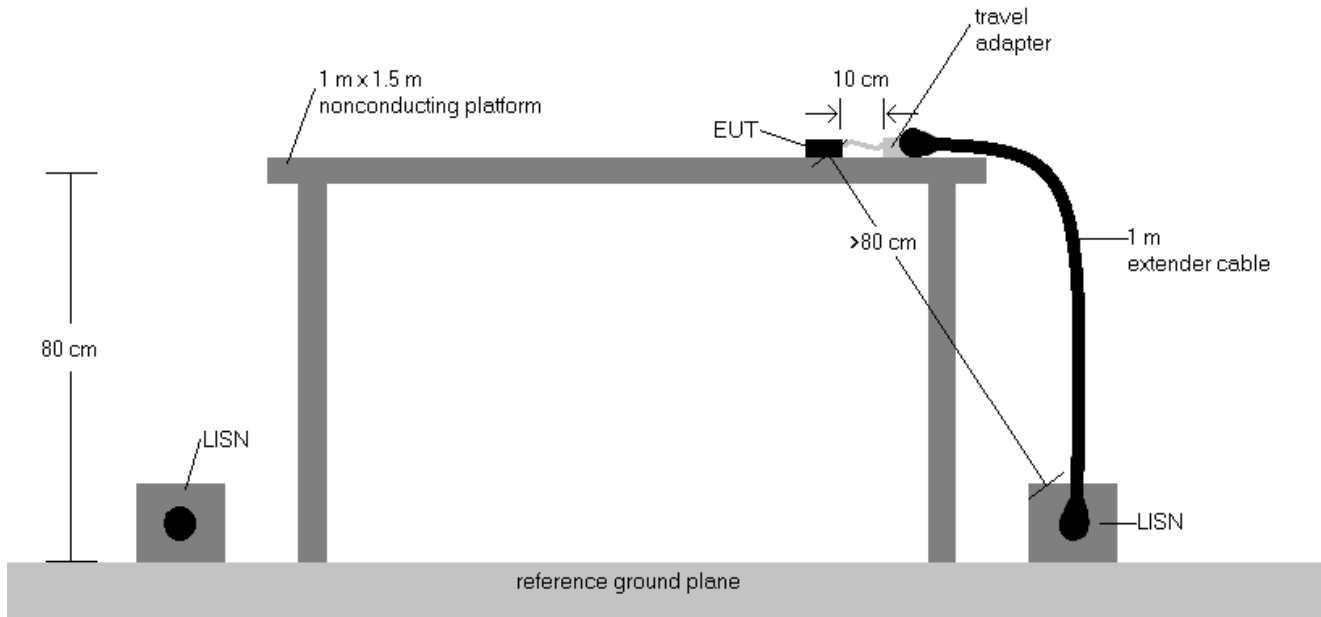
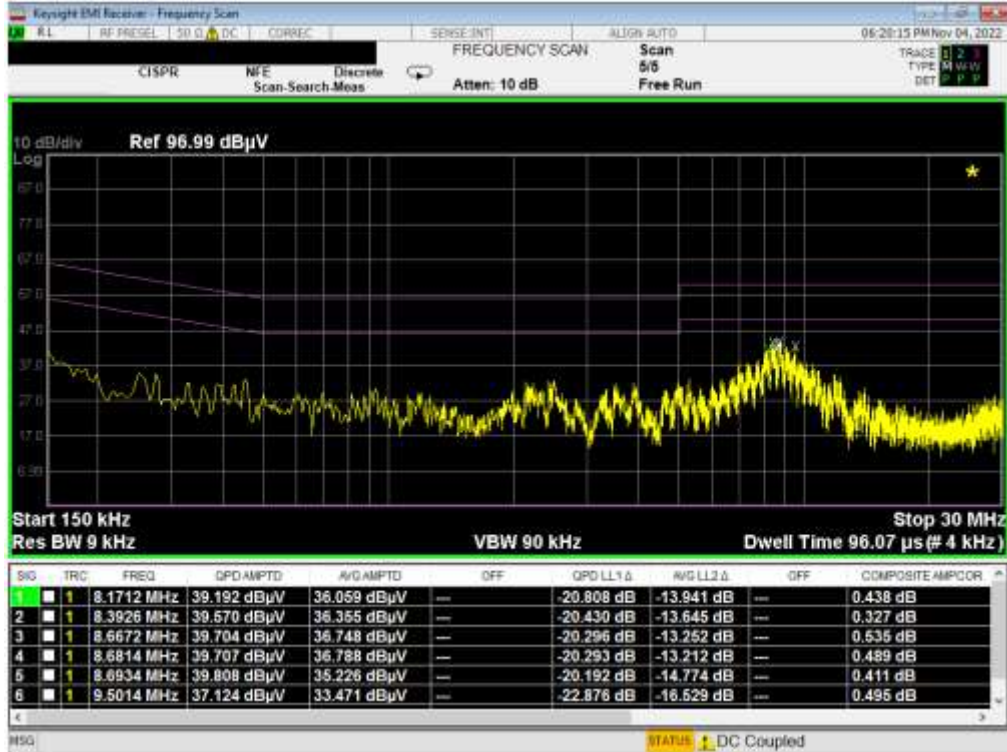


Figure 7-9. Test Instrument & Measurement Setup

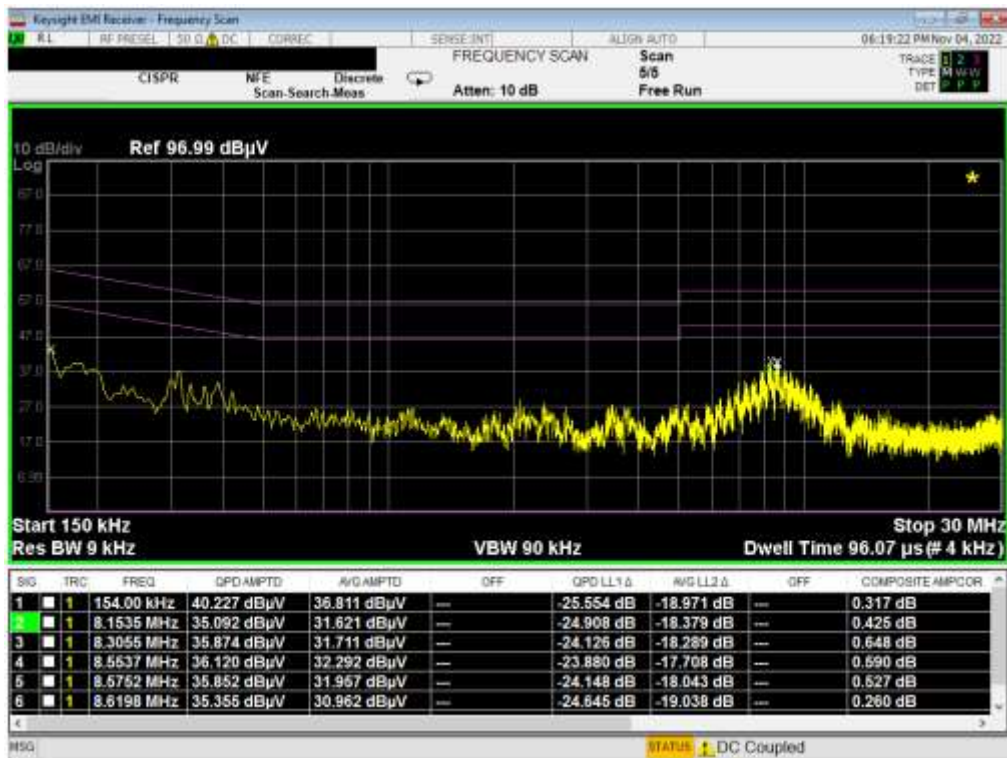
Test Notes

1. 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.
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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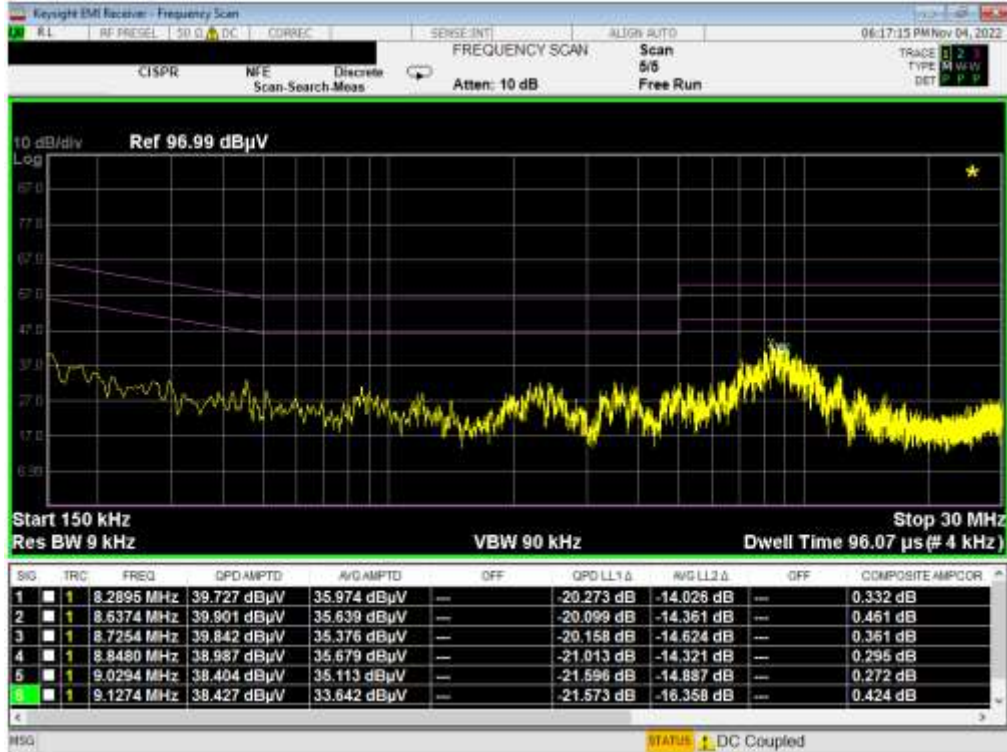


Plot 7-377. Line Conducted Plot with 802.11a UNII Band 5 (L1)

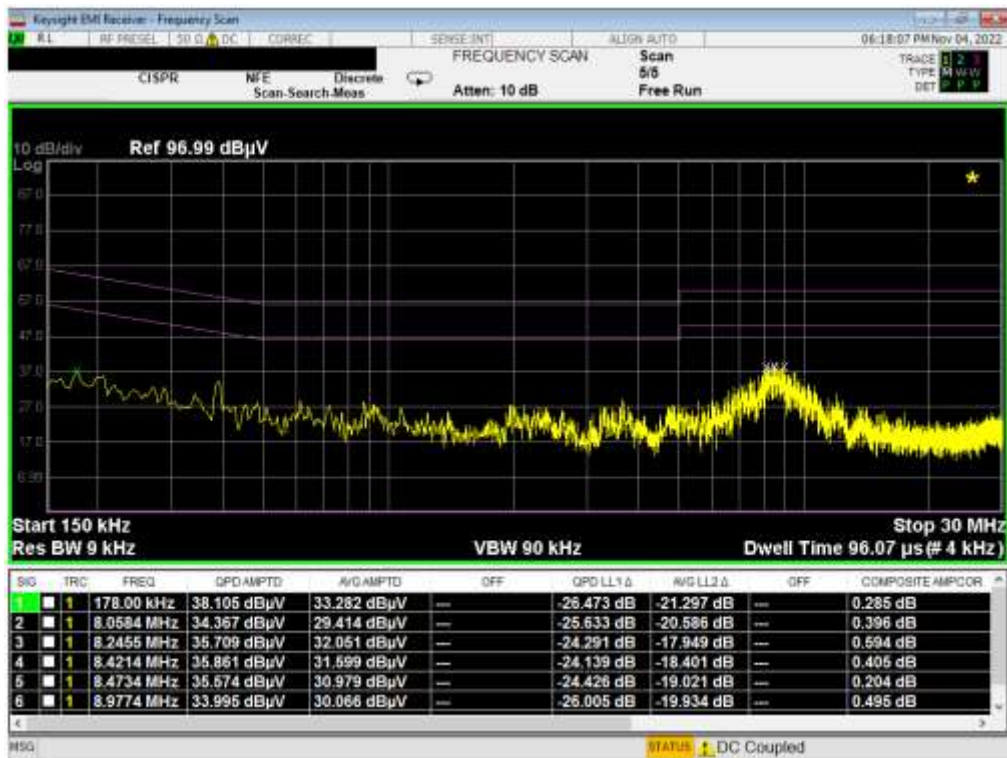


Plot 7-378. Line Conducted Plot with 802.11a UNII Band 5 (N)

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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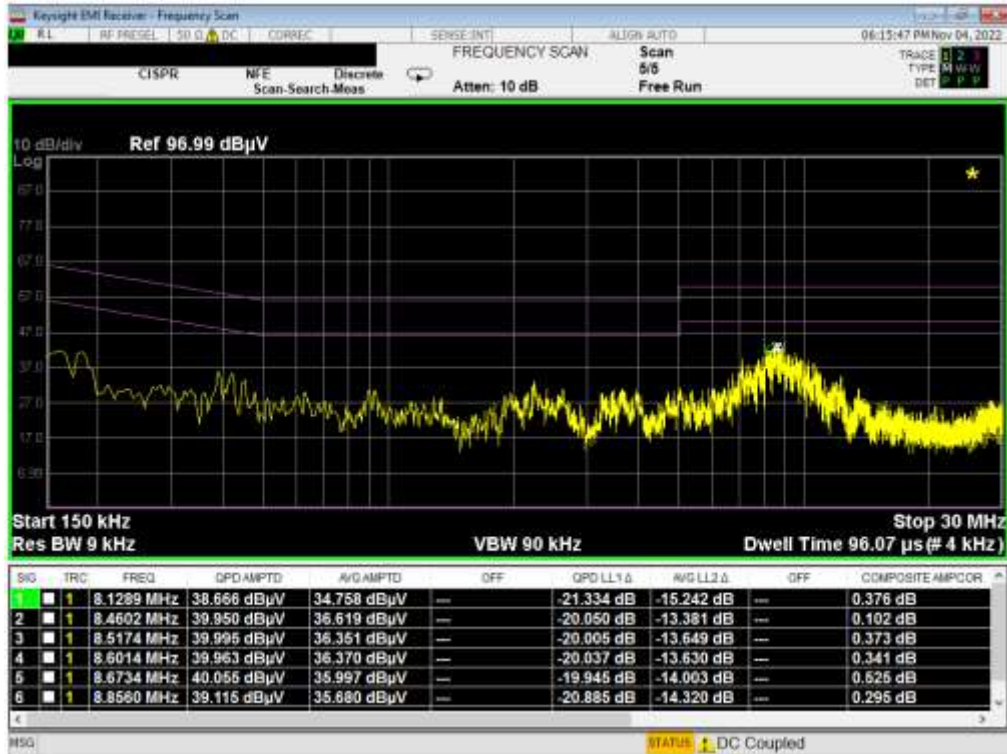


Plot 7-379. Line Conducted Plot with 802.11a UNII Band 6 (L1)

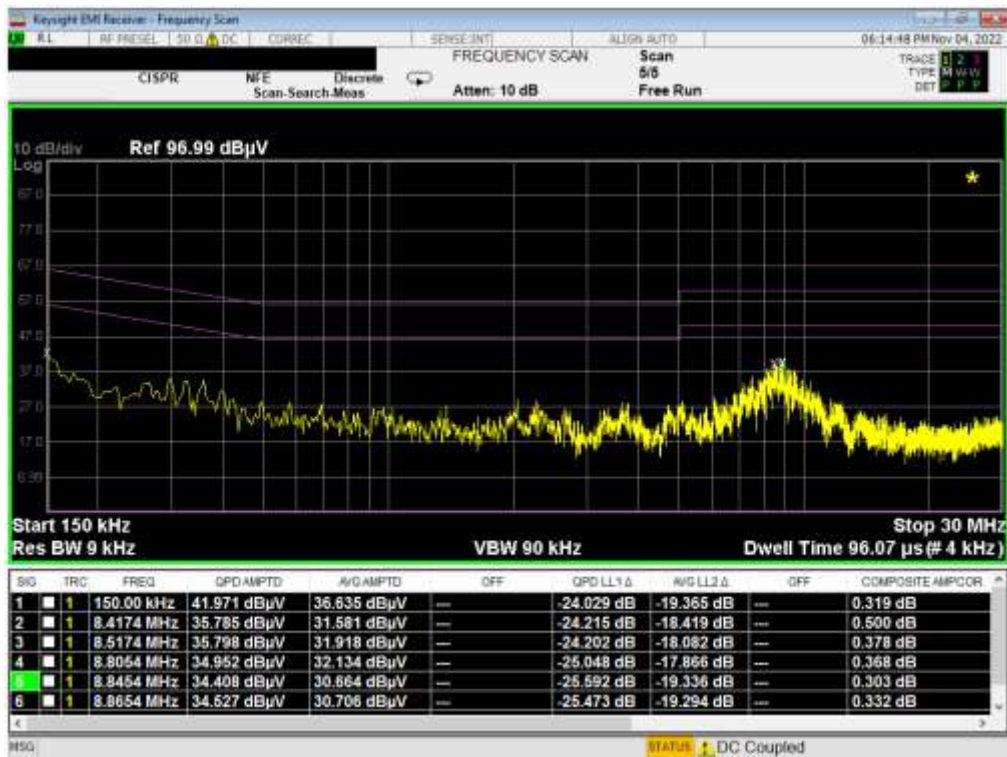


Plot 7-380. Line Conducted Plot with 802.11a UNII Band 6 (N)

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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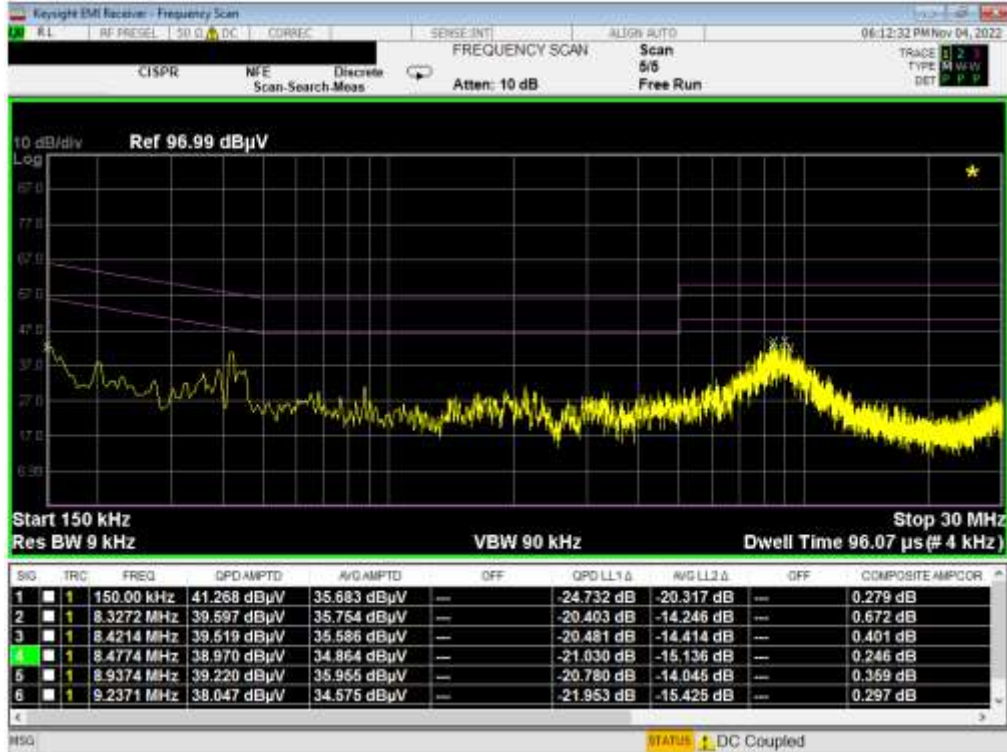


Plot 7-381. Line Conducted Plot with 802.11a UNII Band 7 (L1)

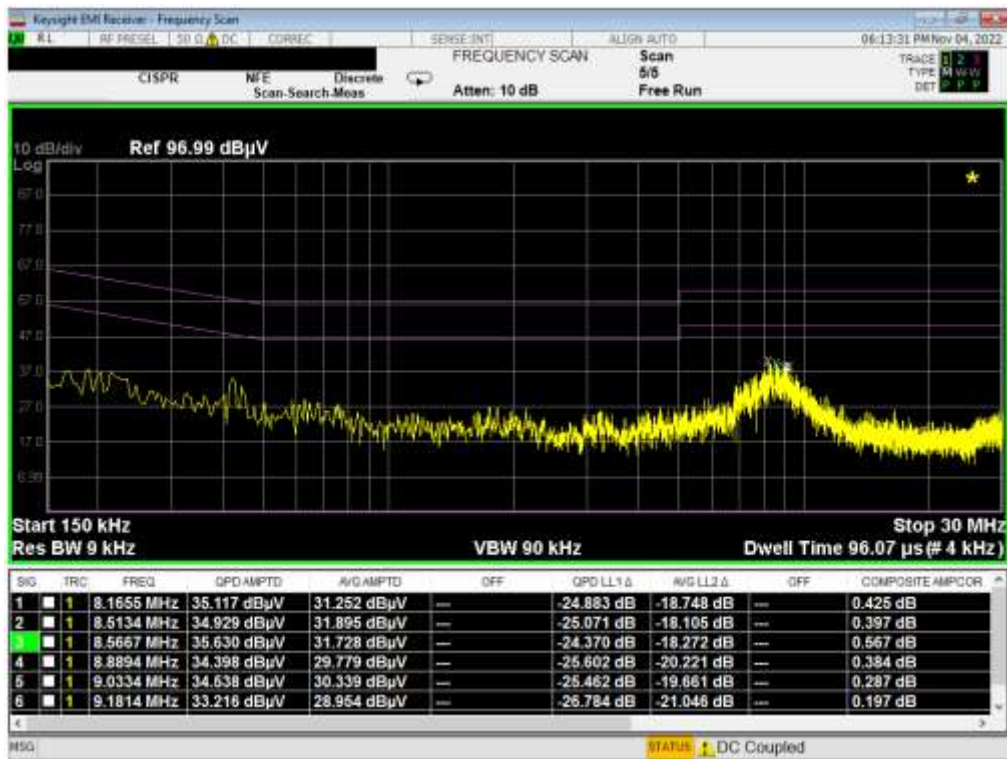


Plot 7-382. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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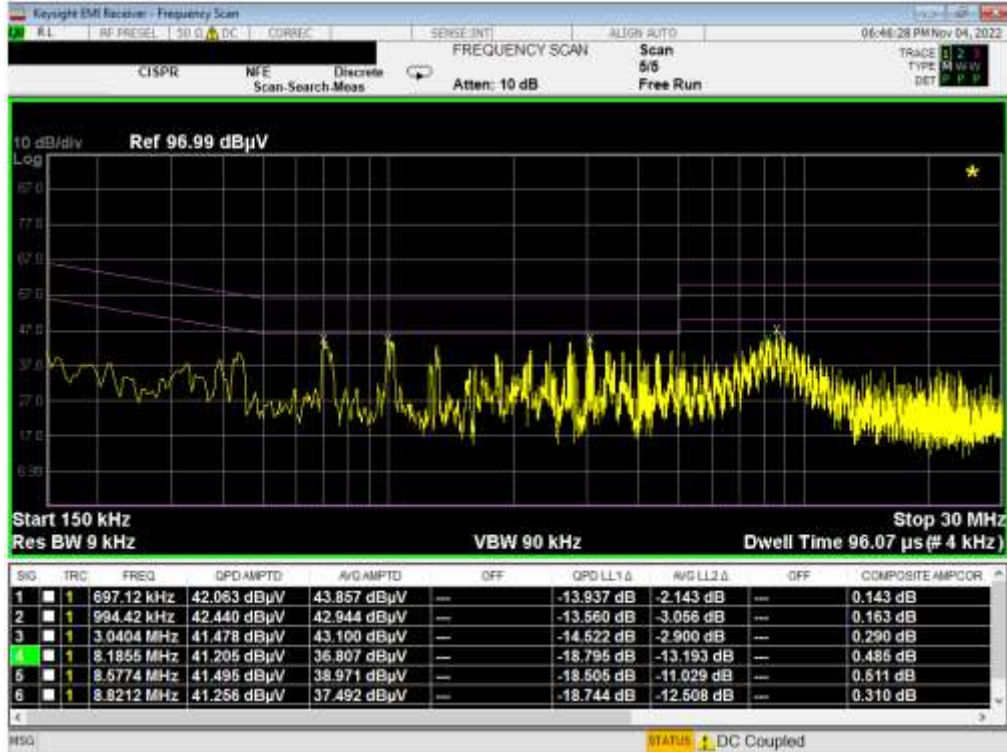


Plot 7-383. Line Conducted Plot with 802.11a UNII Band 8 (L1)

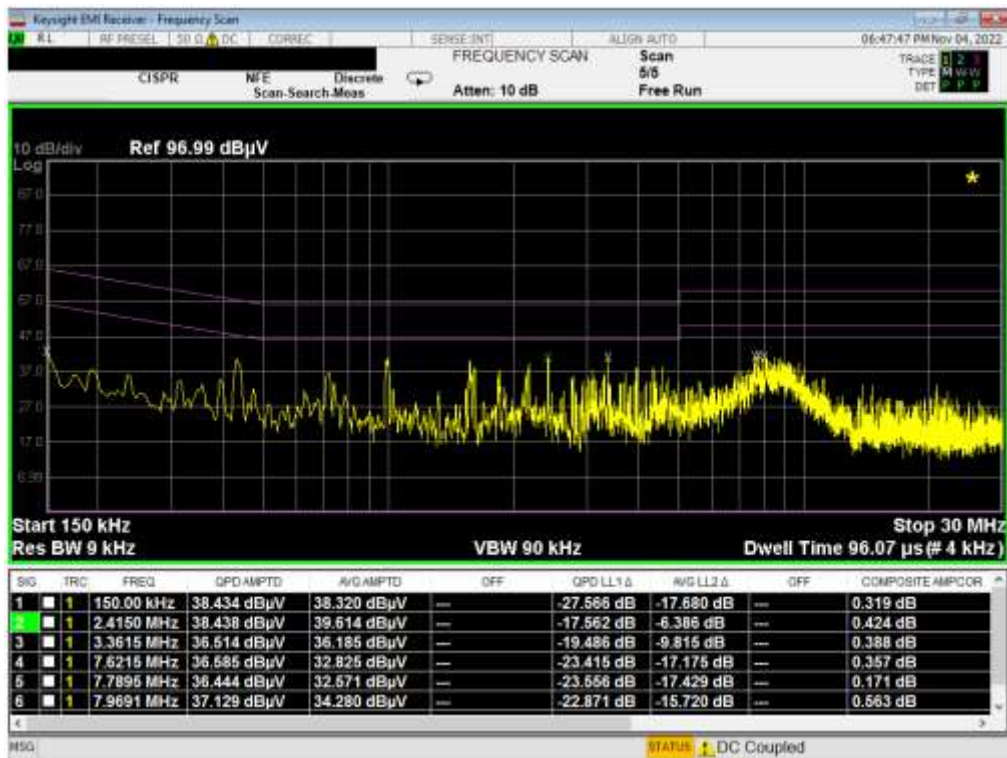


Plot 7-384. Line Conducted Plot with 802.11a UNII Band 8 (N)

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Plot 7-385. Line Conducted Plot with 802.11a UNII Band 5 (L1) with WCP



Plot 7-386. Line Conducted Plot with 802.11a UNII Band 5 (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: A3LSMS911JPN** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device.

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