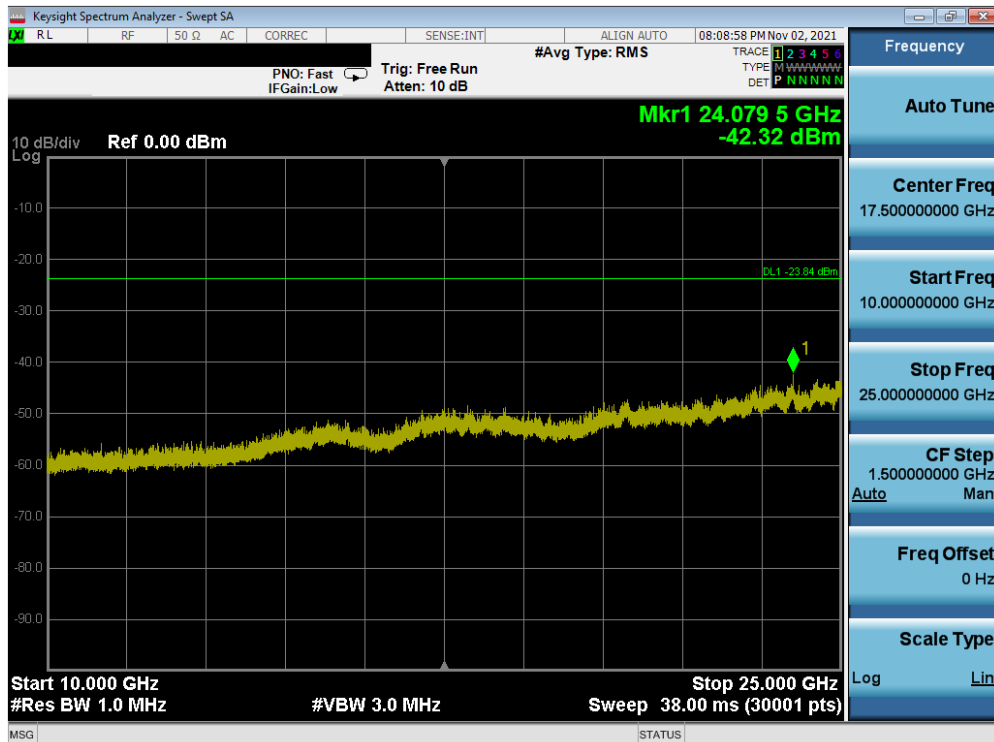
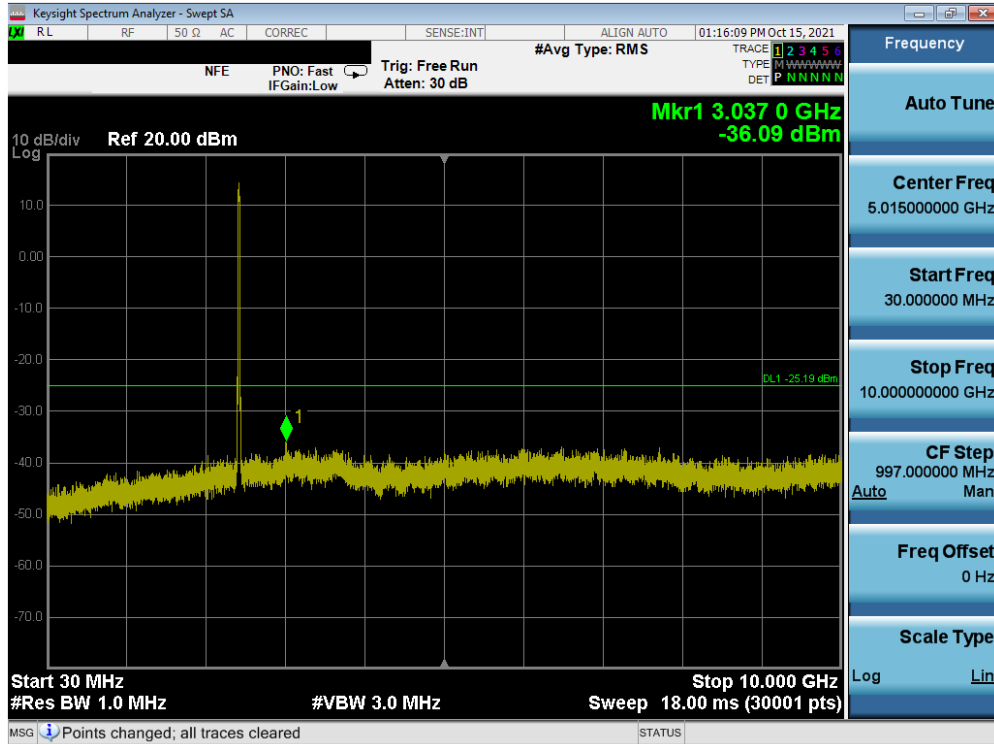


Plot 7-113. Conducted Spurious Plot MIMO ANT2 (802.11g – Ch. 1)

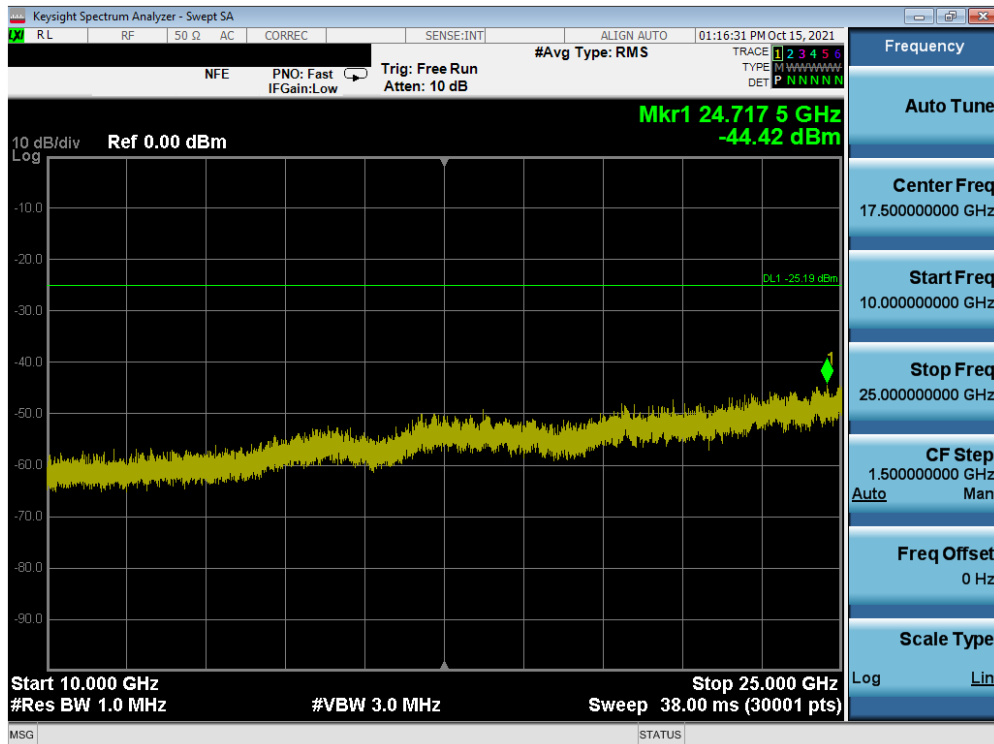


Plot 7-114. Conducted Spurious Plot MIMO ANT2 (802.11g – Ch. 1)

FCC ID: A3LSMS908E	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset		Page 84 of 124

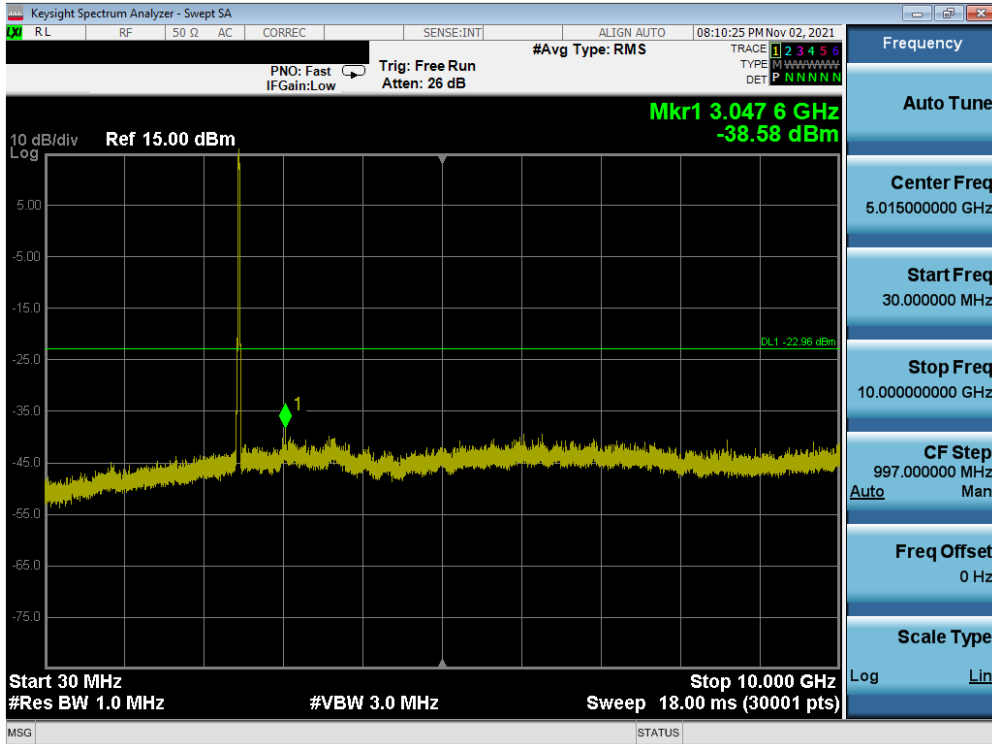


Plot 7-115. Conducted Spurious Plot MIMO ANT2 (802.11g – Ch. 6)

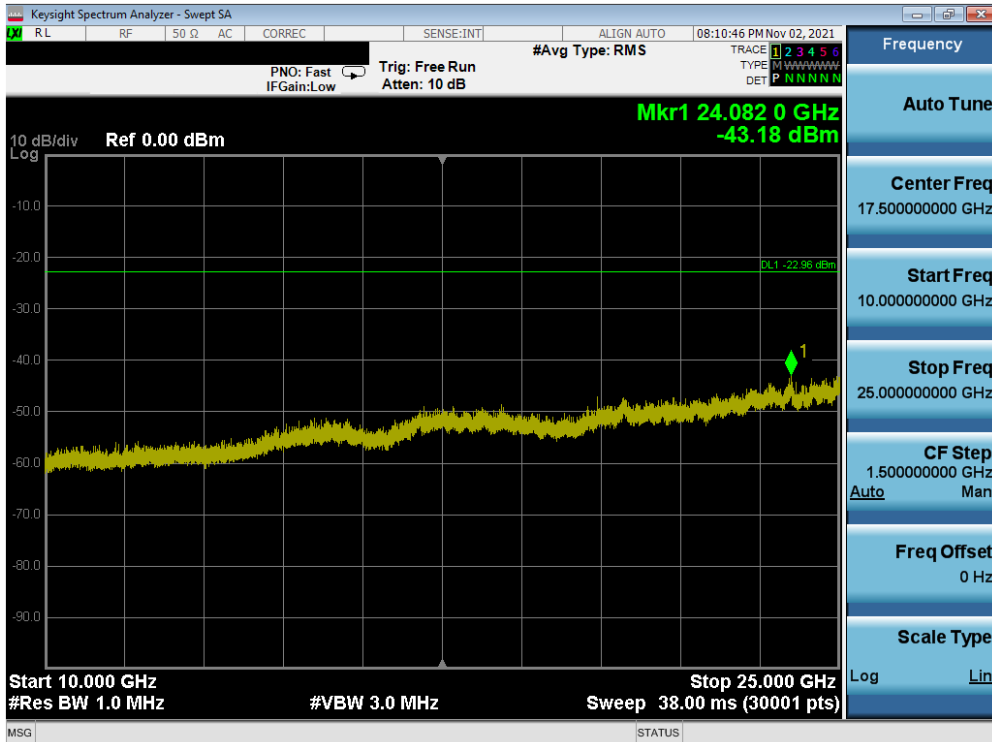


Plot 7-116. Conducted Spurious Plot MIMO ANT2 (802.11g – Ch. 6)

FCC ID: A3LSMS908E	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset		Page 85 of 124



Plot 7-117. Conducted Spurious Plot MIMO ANT2 (802.11g – Ch. 11)



Plot 7-118. Conducted Spurious Plot MIMO ANT2 (802.11g – Ch. 11)

FCC ID: A3LSMS908E	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset		Page 86 of 124

7.7 Radiated Spurious Emission Measurements – Above 1 GHz

§15.247(d) §15.205 & §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 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

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. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

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

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Test Setup

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

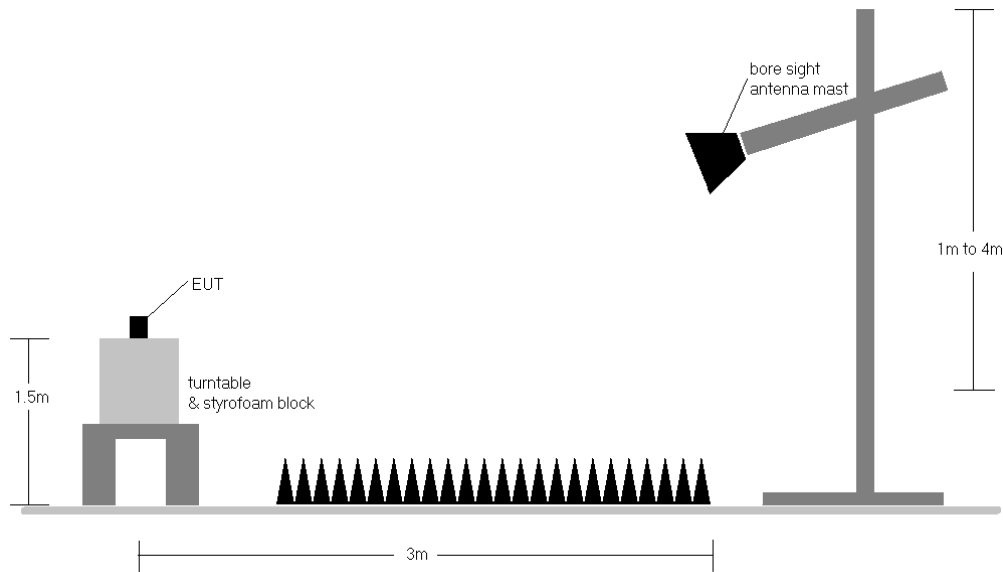


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-13.
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. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions

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produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.

8. 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.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

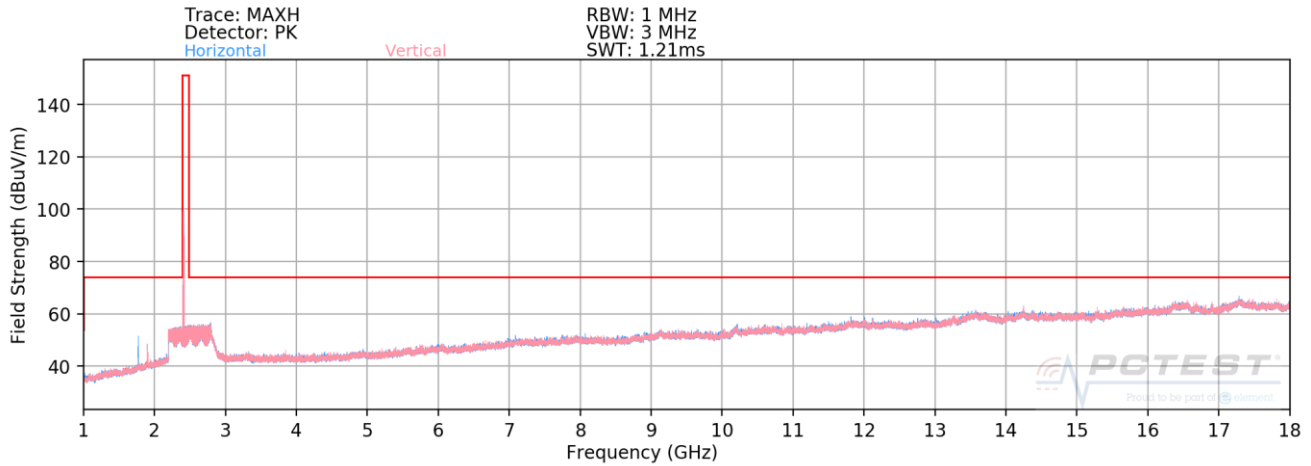
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

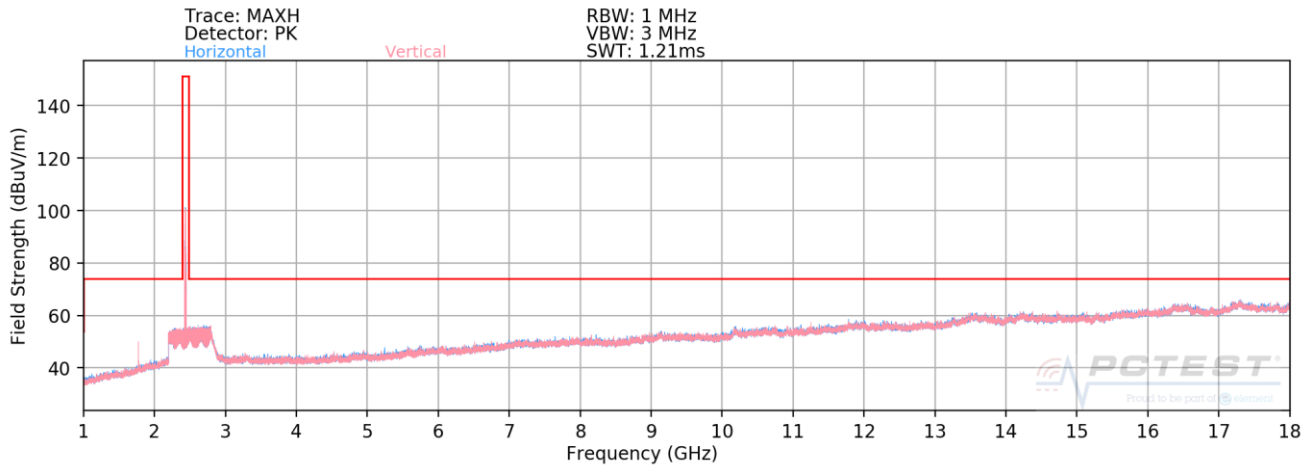
FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.1 SISO Antenna-1 Radiated Spurious Emission Measurements

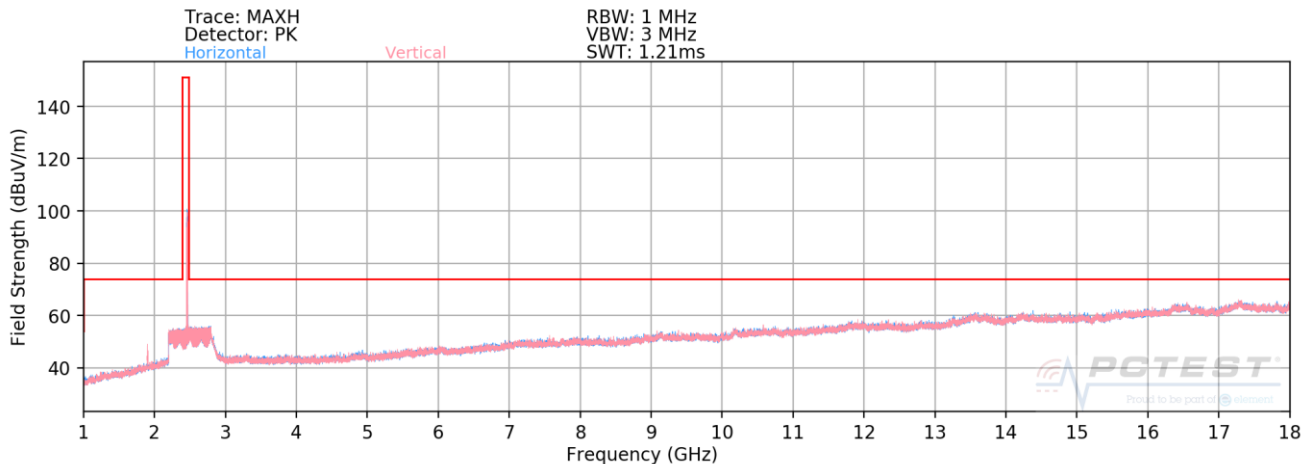
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-119. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11b – Ch. 1)



Plot 7-120. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11b – Ch. 6)

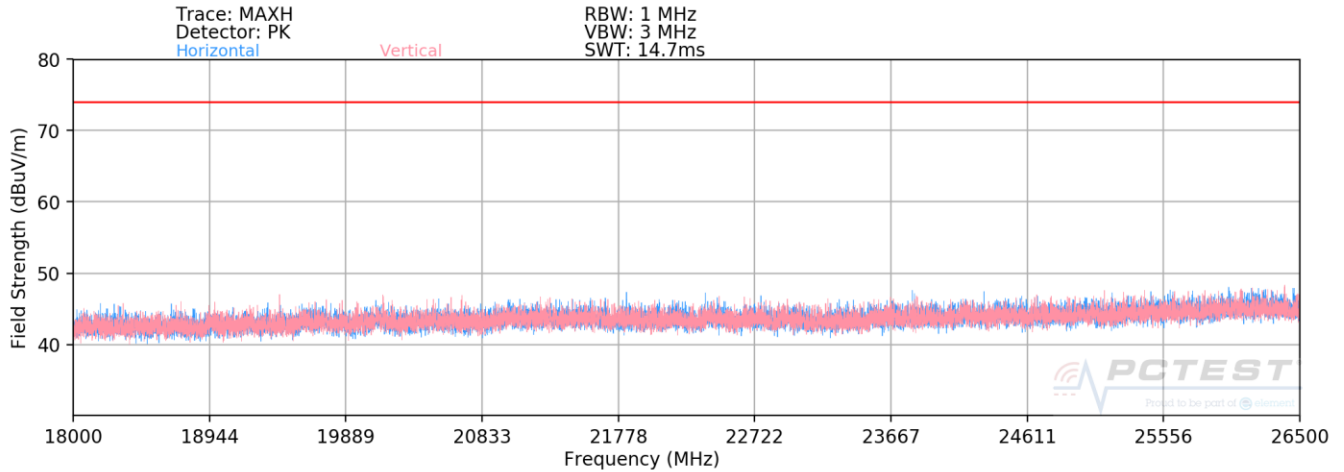


Plot 7-121. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-122. Radiated Spurious Plot above 18GHz SISO ANT1

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SISO Antenna-1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

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]
4824.00	Avg	H	400	18	-80.48	8.82	35.34	53.98	-18.64
4824.00	Peak	H	400	18	-70.92	8.82	44.90	73.98	-29.08
12060.00	Avg	H	-	-	-83.87	22.55	45.68	53.98	-8.30
12060.00	Peak	H	-	-	-73.20	22.55	56.35	73.98	-17.63

Table 7-14. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

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]
4874.00	Avg	H	262	36	-81.48	9.05	34.57	53.98	-19.40
4874.00	Peak	H	262	36	-70.92	9.05	45.13	73.98	-28.84
7311.00	Avg	H	-	-	-82.42	14.70	39.28	53.98	-14.70
7311.00	Peak	H	-	-	-72.26	14.70	49.44	73.98	-24.54
12185.00	Avg	H	-	-	-84.41	23.50	46.09	53.98	-7.89
12185.00	Peak	H	-	-	-74.25	23.50	56.25	73.98	-17.73

Table 7-15. Radiated Measurements SISO ANT1

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

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]
4924.00	Avg	H	253	14	-80.77	9.43	35.66	53.98	-18.32
4924.00	Peak	H	253	14	-71.06	9.43	45.37	73.98	-28.61
7386.00	Avg	H	-	-	-82.68	14.73	39.05	53.98	-14.93
7386.00	Peak	H	-	-	-72.67	14.73	49.06	73.98	-24.92
12310.00	Avg	H	-	-	-84.78	23.83	46.05	53.98	-7.93
12310.00	Peak	H	-	-	-74.21	23.83	56.62	73.98	-17.36

Table 7-16. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

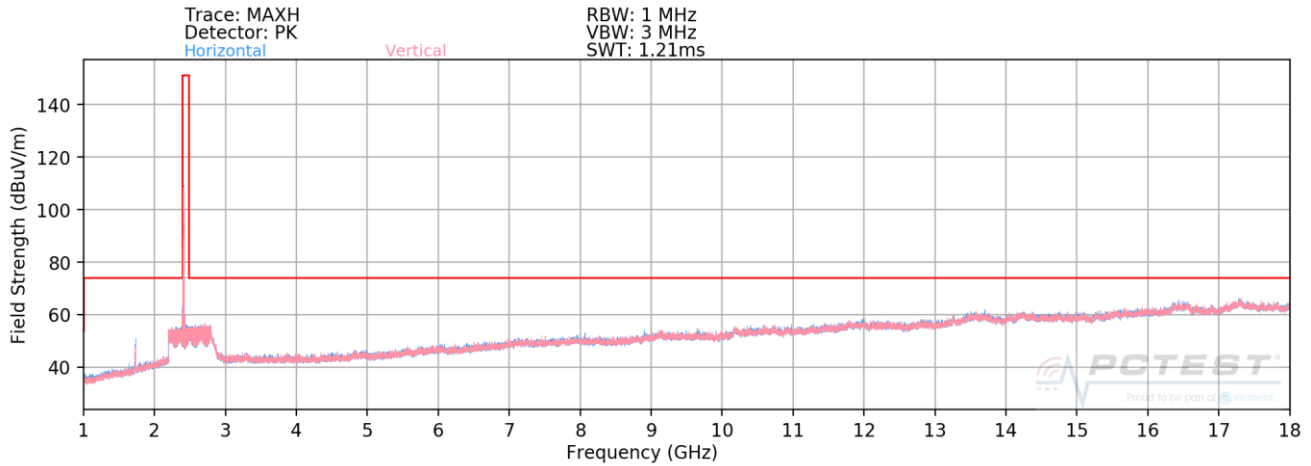
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	270	201	-79.75	9.43	36.68	53.98	-17.30
4924.00	Peak	H	270	201	-71.00	9.43	45.43	73.98	-28.55
7386.00	Avg	H	-	-	-82.54	14.73	39.19	53.98	-14.79
7386.00	Peak	H	-	-	-71.85	14.73	49.88	73.98	-24.10
12310.00	Avg	H	-	-	-84.61	23.83	46.22	53.98	-7.76
12310.00	Peak	H	-	-	-74.10	23.83	56.73	73.98	-17.25

Table 7-17. Radiated Measurements SISO ANT1 with WCP

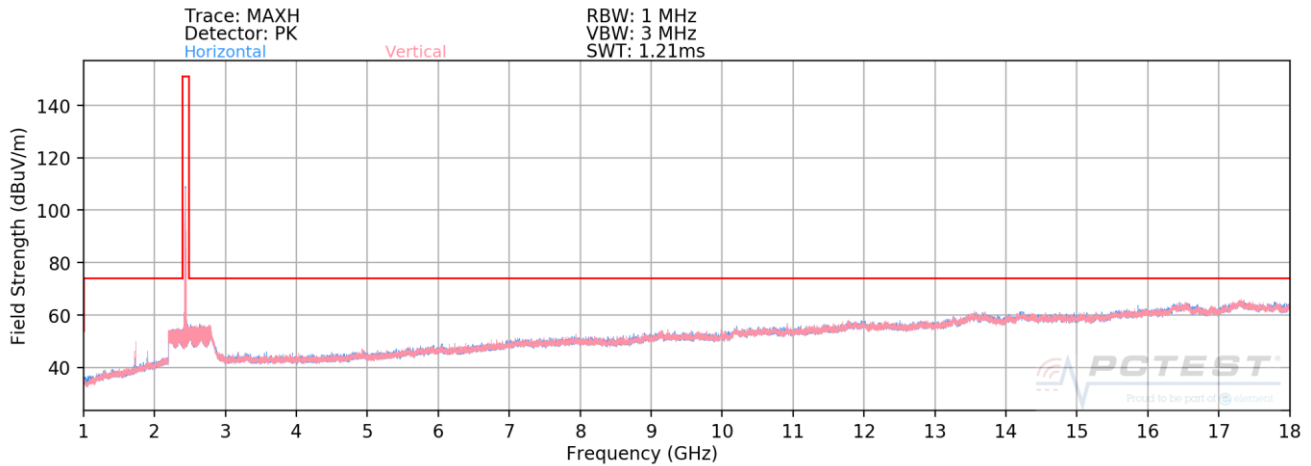
FCC ID: A3LSMS908E	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.2 SISO Antenna-2 Radiated Spurious Emission Measurements

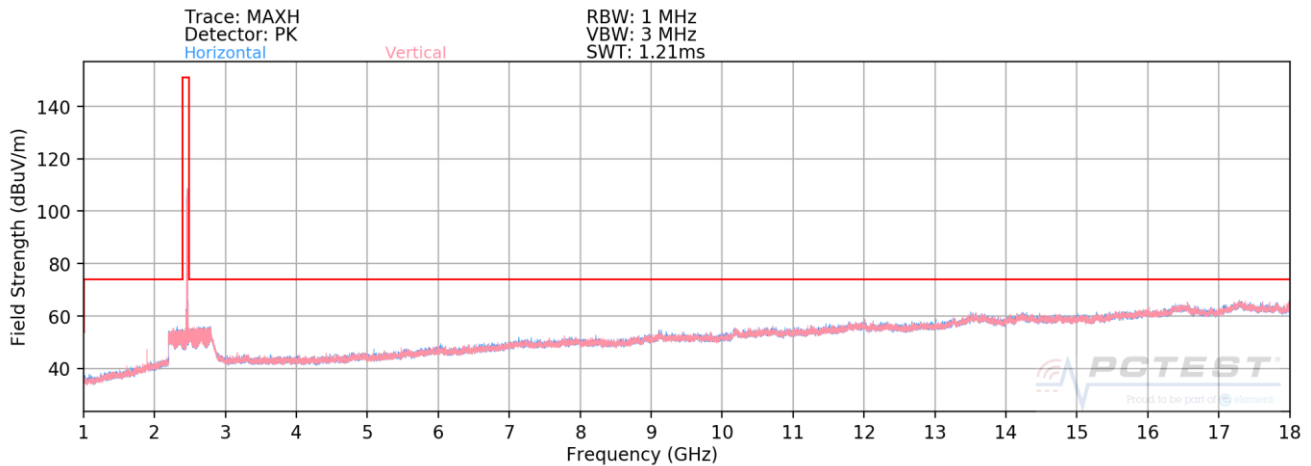
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-123. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11b – Ch. 1)



Plot 7-124. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11b – Ch. 6)

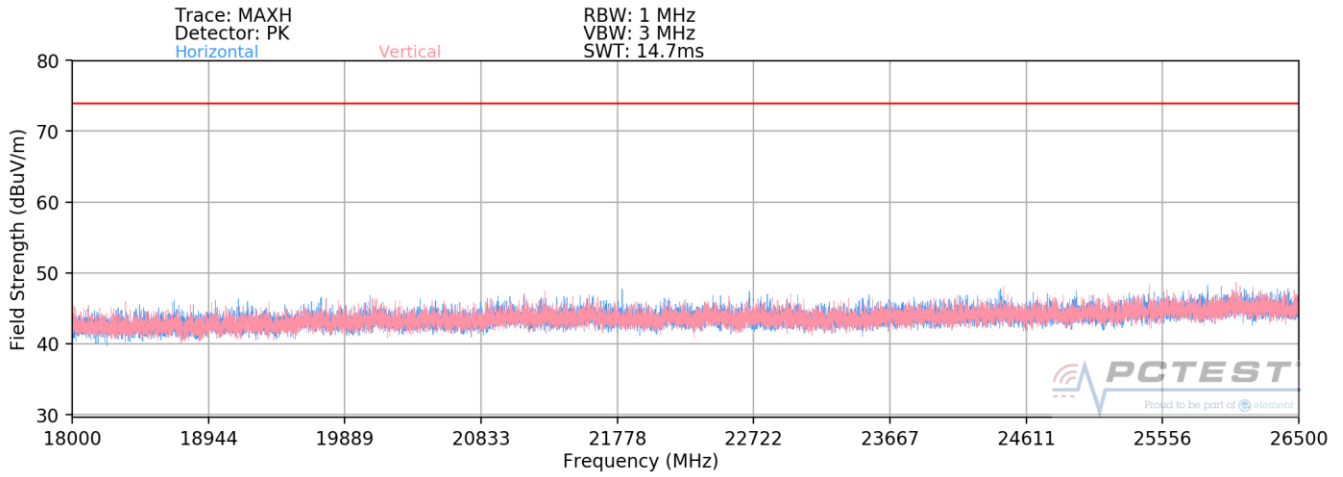


Plot 7-125. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11b – Ch. 11)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-126. Radiated Spurious Plot above 18GHz SISO ANT2

FCC ID: A3LSMS908E	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-2 Radiated Spurious Emission Measurements
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

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]
4824.00	Avg	H	313	342	-74.21	8.82	41.61	53.98	-12.37
4824.00	Peak	H	313	342	-68.43	8.82	47.39	73.98	-26.59
12060.00	Avg	H	-	-	-83.54	22.55	46.01	53.98	-7.97
12060.00	Peak	H	-	-	-73.65	22.55	55.90	73.98	-18.08

Table 7-18. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

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]
4874.00	Avg	H	118	146	-78.88	9.05	37.17	53.98	-16.80
4874.00	Peak	H	118	146	-70.35	9.05	45.70	73.98	-28.27
7311.00	Avg	H	-	-	-82.28	14.70	39.42	53.98	-14.56
7311.00	Peak	H	-	-	-72.22	14.70	49.48	73.98	-24.50
12185.00	Avg	H	-	-	-84.25	23.50	46.25	53.98	-7.73
12185.00	Peak	H	-	-	-73.29	23.50	57.21	73.98	-16.77

Table 7-19. Radiated Measurements SISO ANT2

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

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]
4924.00	Avg	H	100	142	-77.02	9.43	39.41	53.98	-14.57
4924.00	Peak	H	100	142	-70.18	9.43	46.25	73.98	-27.73
7386.00	Avg	H	-	-	-82.62	14.73	39.11	53.98	-14.87
7386.00	Peak	H	-	-	-72.64	14.73	49.09	73.98	-24.89
12310.00	Avg	H	-	-	-84.52	23.83	46.31	53.98	-7.67
12310.00	Peak	H	-	-	-74.57	23.83	56.26	73.98	-17.72

Table 7-20. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

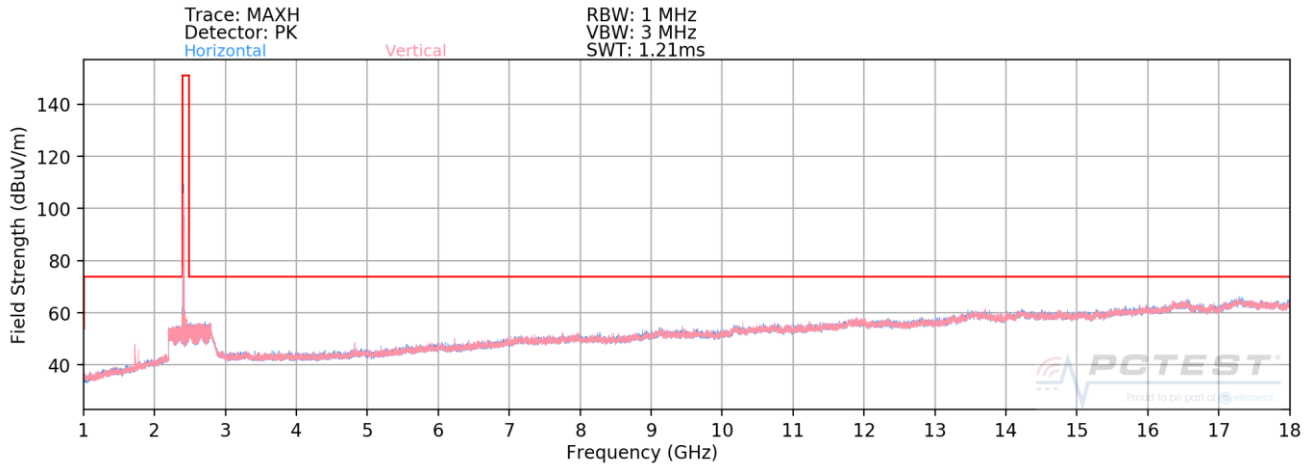
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	107	213	-75.83	8.82	39.99	53.98	-13.99
4824.00	Peak	H	107	213	-69.02	8.82	46.80	73.98	-27.18
12060.00	Avg	H	-	-	-83.73	22.55	45.82	53.98	-8.16
12060.00	Peak	H	-	-	-73.05	22.55	56.50	73.98	-17.48

Table 7-21. Radiated Measurements SISO ANT2 with WCP

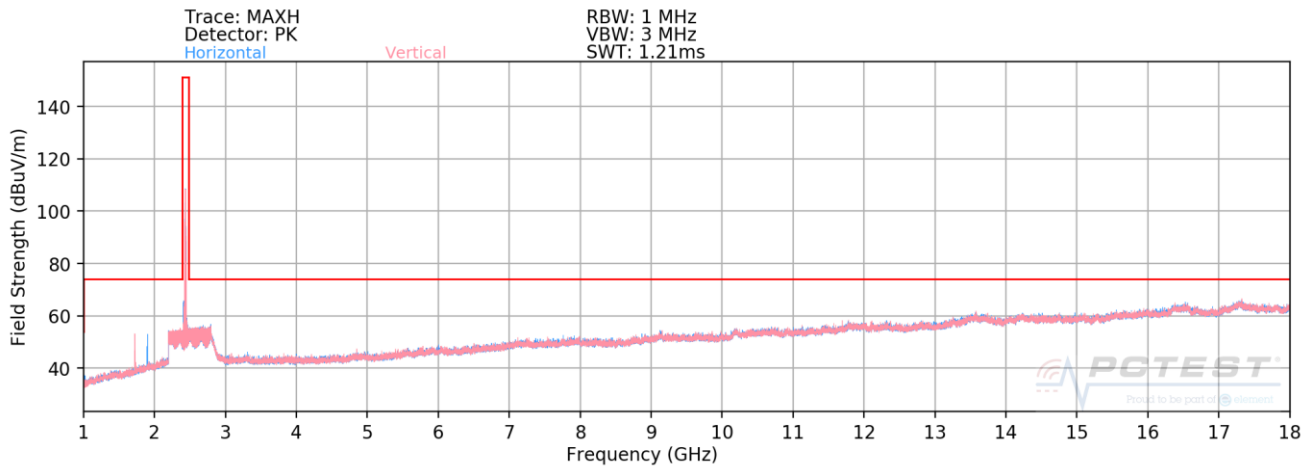
FCC ID: A3LSMS908E	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.3 MIMO/CDD Radiated Spurious Emission Measurements

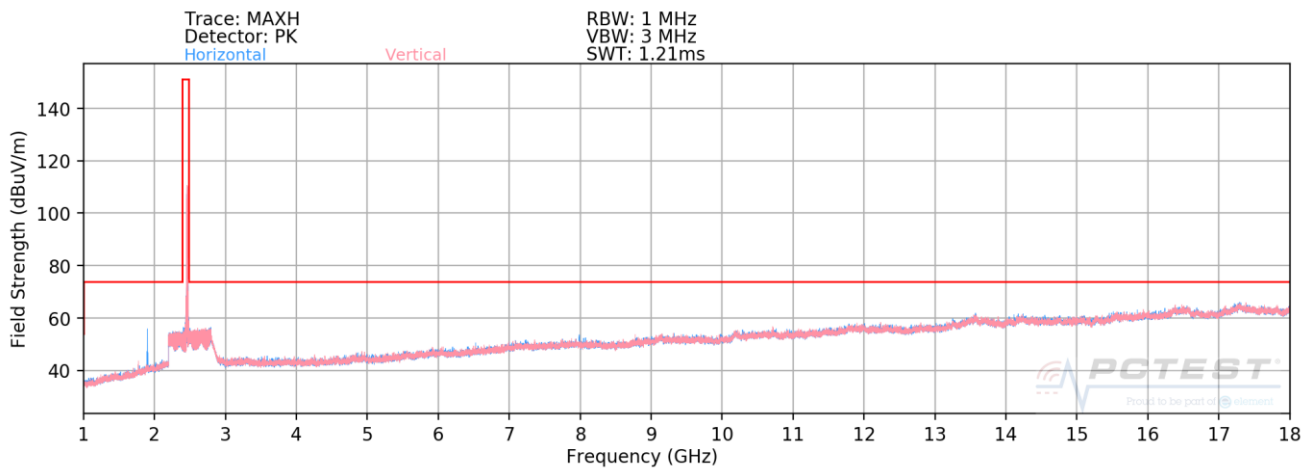
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-127. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11g – Ch. 1)



Plot 7-128. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11g – Ch. 6)

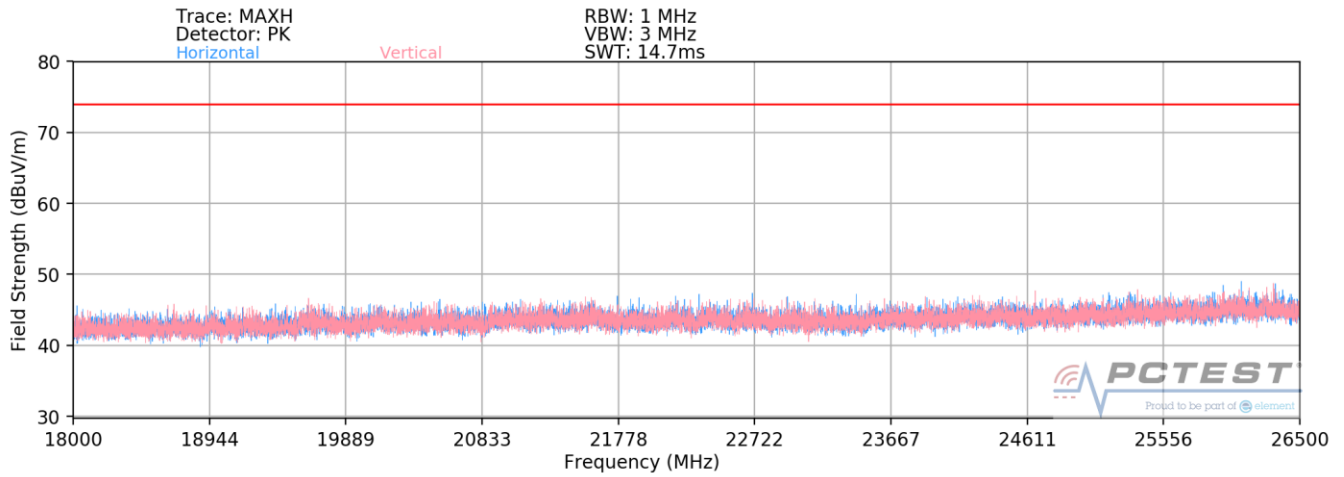


Plot 7-129. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11g – Ch. 11)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO/CDD Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-130. Radiated Spurious Plot above 18GHz MIMO/CDD

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CDD Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

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]
4824.00	Avg	V	294	338	-70.82	8.82	45.00	53.98	-8.98
4824.00	Peak	V	294	338	-65.93	8.82	49.89	73.98	-24.09
12060.00	Avg	V	-	-	-83.58	22.55	45.97	53.98	-8.01
12060.00	Peak	V	-	-	-72.90	22.55	56.65	73.98	-17.33

Table 7-22. Radiated Measurements CDD

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

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]
4874.00	Avg	V	220	344	-78.37	9.05	37.68	53.98	-16.29
4874.00	Peak	V	220	344	-69.37	9.05	46.68	73.98	-27.29
7311.00	Avg	V	-	-	-82.45	14.70	39.25	53.98	-14.73
7311.00	Peak	V	-	-	-72.25	14.70	49.45	73.98	-24.53
12185.00	Avg	V	-	-	-84.43	23.50	46.07	53.98	-7.91
12185.00	Peak	V	-	-	-73.95	23.50	56.55	73.98	-17.43

Table 7-23. Radiated Measurements CDD

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07-A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 100 of 124	

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

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]
4924.00	Avg	V	317	47	-74.65	9.43	41.78	53.98	-12.20
4924.00	Peak	V	317	47	-68.38	9.43	48.05	73.98	-25.93
7386.00	Avg	V	144	346	-81.93	14.73	39.80	53.98	-14.18
7386.00	Peak	V	144	346	-72.30	14.73	49.43	73.98	-24.55
12310.00	Avg	V	-	-	-84.91	23.83	45.92	53.98	-8.06
12310.00	Peak	V	-	-	-74.00	23.83	56.83	73.98	-17.15

Table 7-24. Radiated Measurements CDD

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

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]
4824.00	Avg	V	175	147	-77.72	8.82	38.10	53.98	-15.88
4824.00	Peak	V	175	147	-69.75	8.82	46.07	73.98	-27.91
12060.00	Avg	V	-	-	-83.72	22.55	45.83	53.98	-8.15
12060.00	Peak	V	-	-	-73.44	22.55	56.11	73.98	-17.87

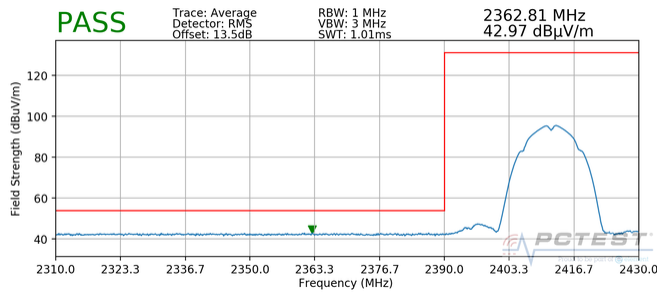
Table 7-25. Radiated Measurements CDD with WCP

FCC ID: A3LSMS908E	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 101 of 124	

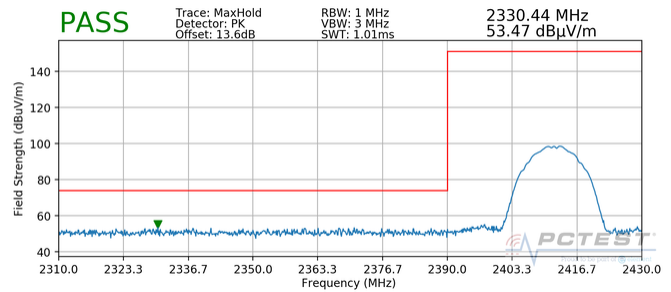
7.7.4 SISO Antenna-1 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

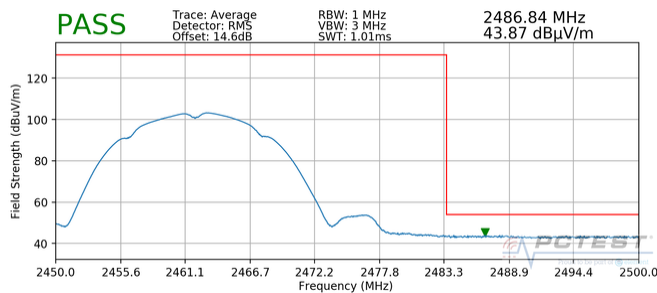


Plot 7-131. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average)

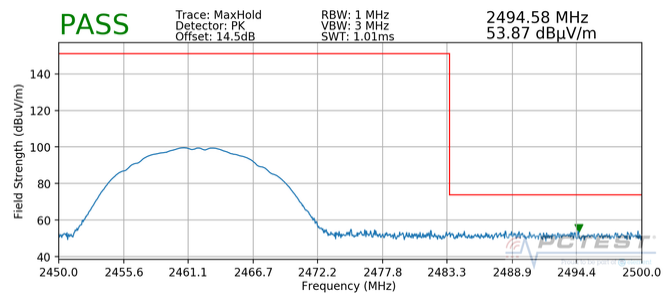


Plot 7-132. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak)

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



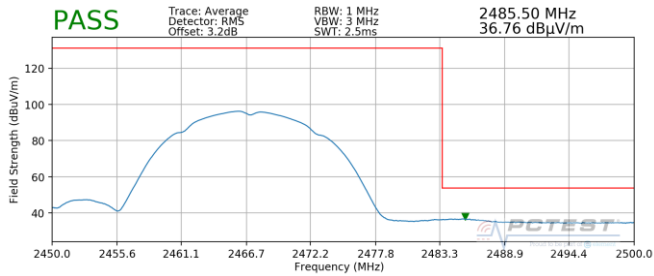
Plot 7-133. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average)



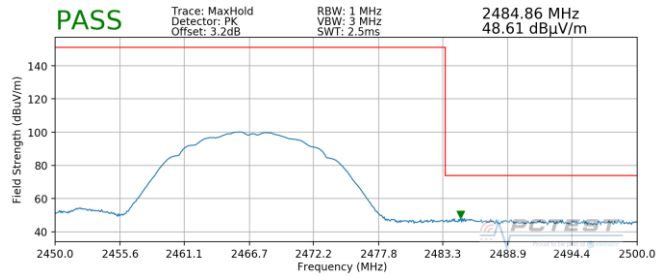
Plot 7-134. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset		Page 102 of 124

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

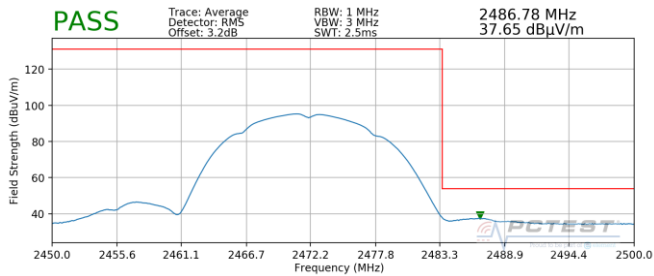


Plot 7-135. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average)

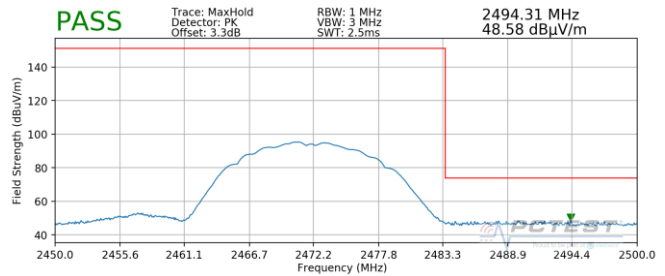


Plot 7-136. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak)

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-137. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average)



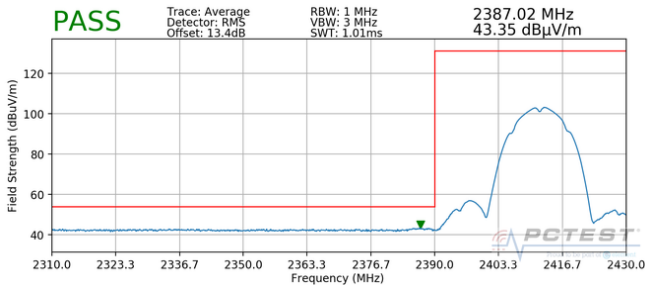
Plot 7-138. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak)

FCC ID: A3LSMS908E	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 103 of 124

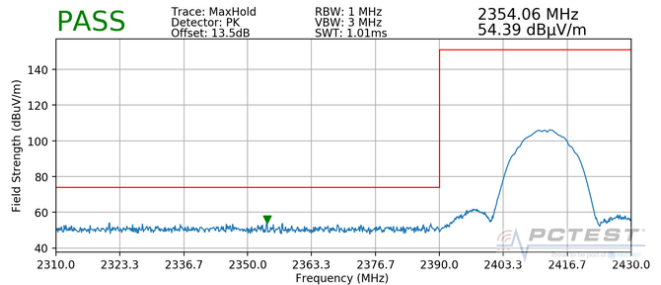
7.7.5 SISO Antenna-2 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

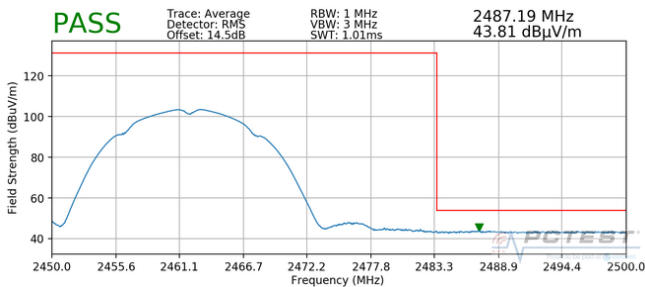


Plot 7-139. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)

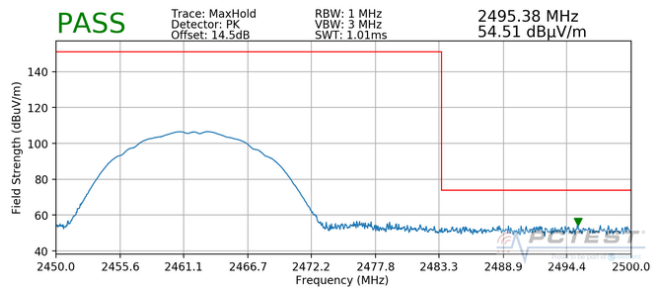


Plot 7-140. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



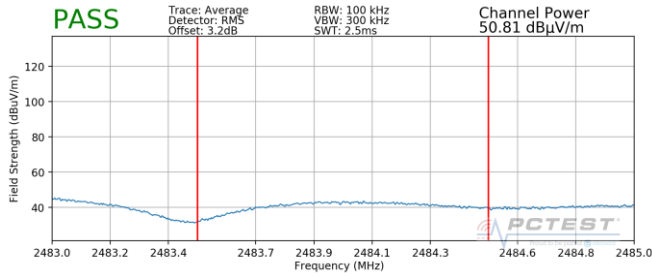
Plot 7-141. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



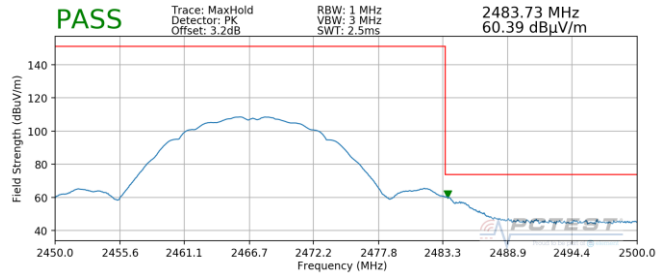
Plot 7-142. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset		Page 104 of 124

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

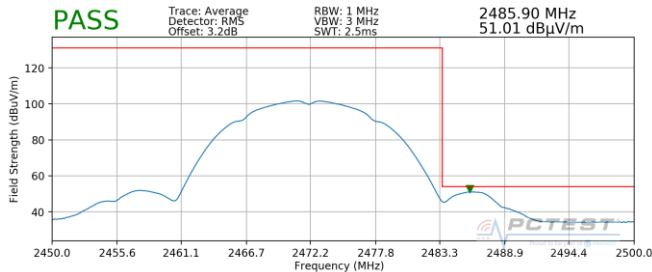


Plot 7-143. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)

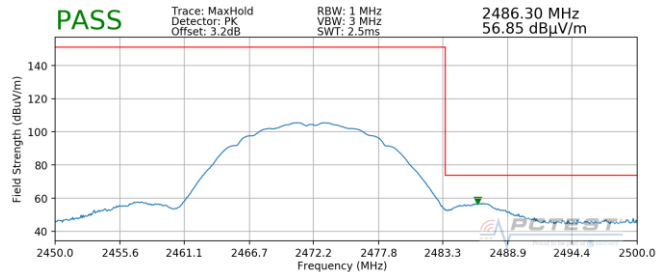


Plot 7-144. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-145. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



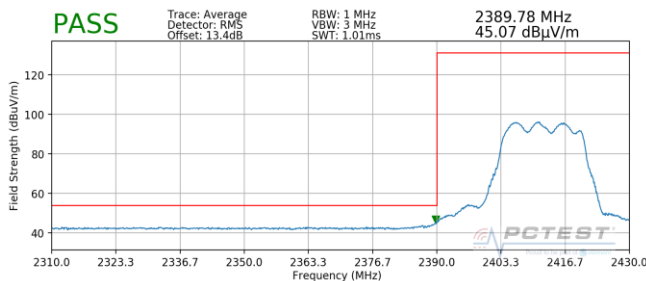
Plot 7-146. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 105 of 124

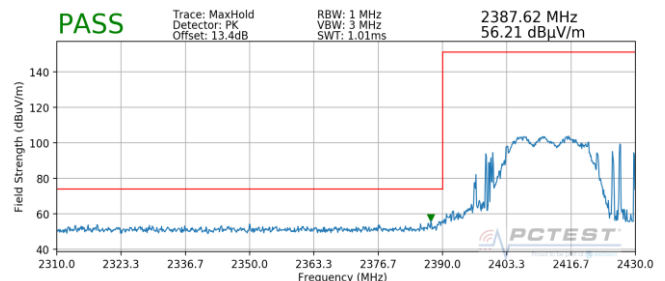
7.7.6 MIMO Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11g
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

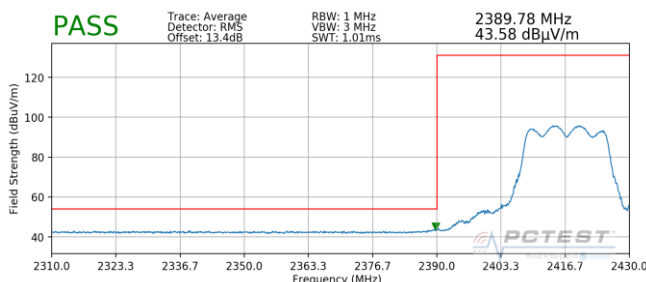


Plot 7-147. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

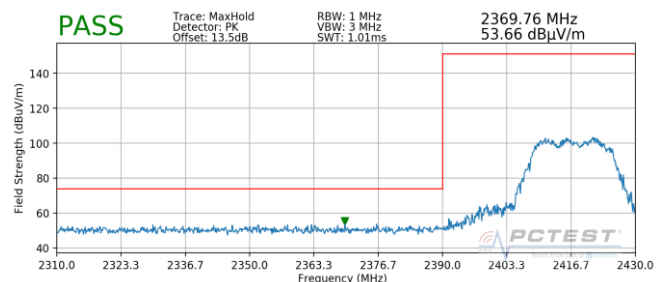


Plot 7-148. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode:	802.11g
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



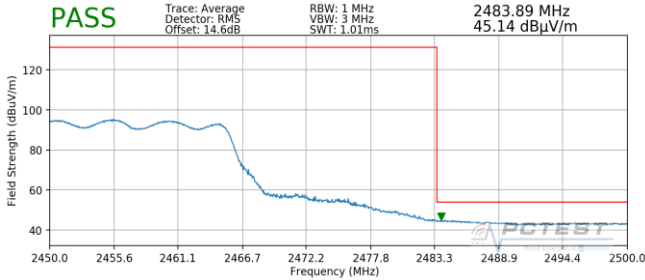
Plot 7-149. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



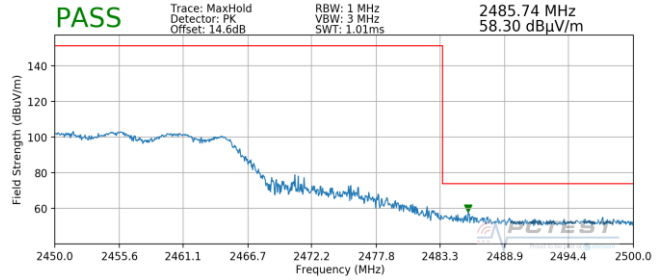
Plot 7-150. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 106 of 124	

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10

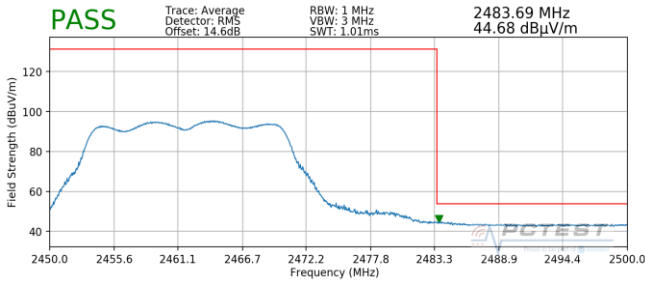


Plot 7-151. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

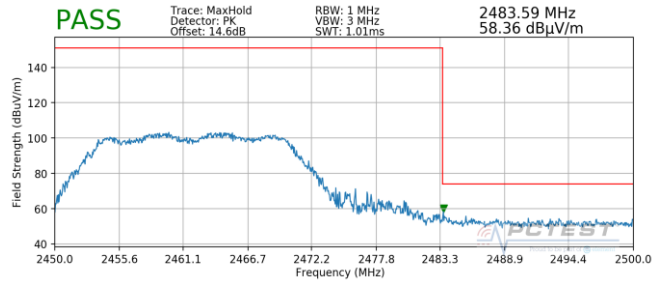


Plot 7-152. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



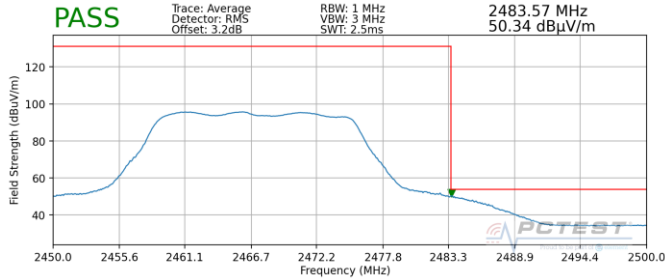
Plot 7-153. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



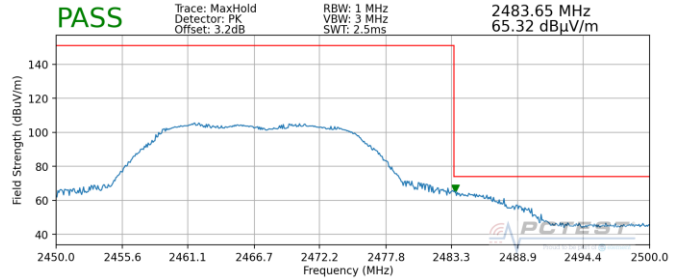
Plot 7-154. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 107 of 124

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

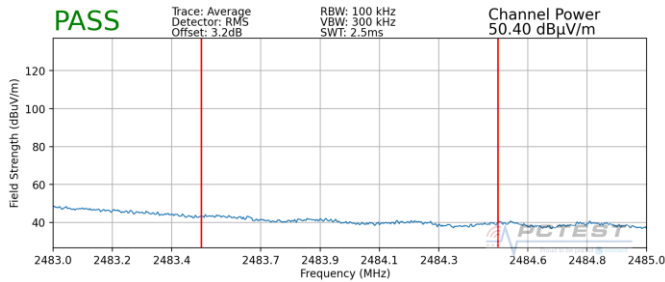


Plot 7-155. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

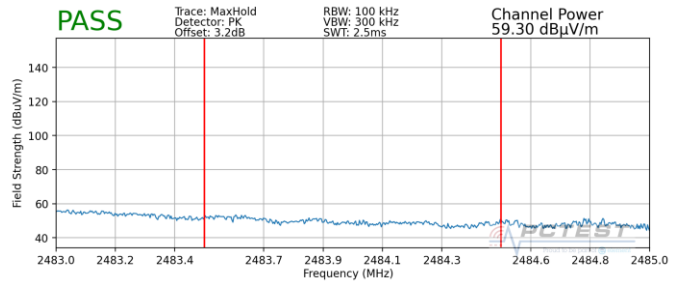


Plot 7-156. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11g
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



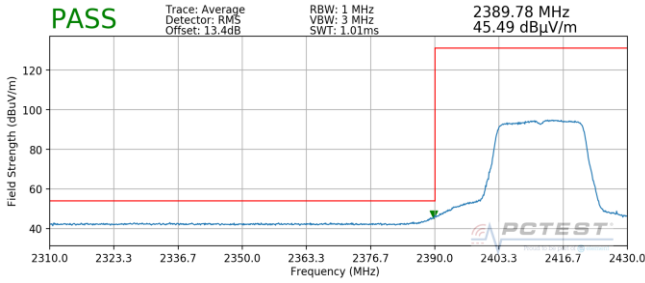
Plot 7-157. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



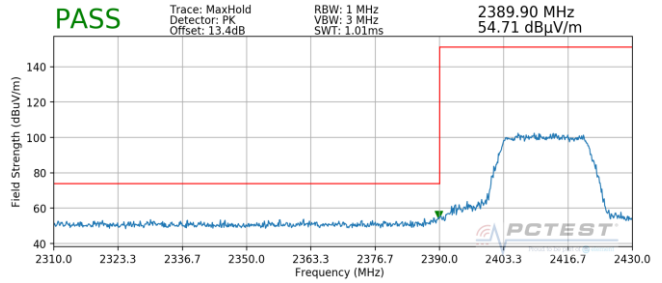
Plot 7-158. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 108 of 124

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

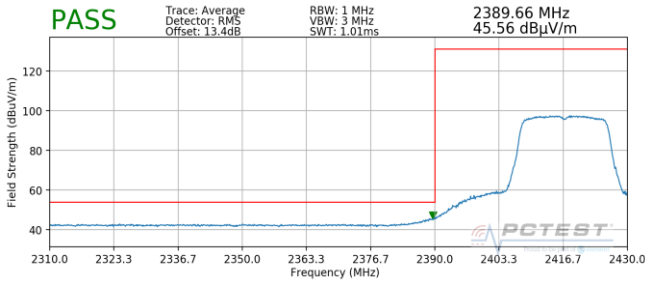


Plot 7-159. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

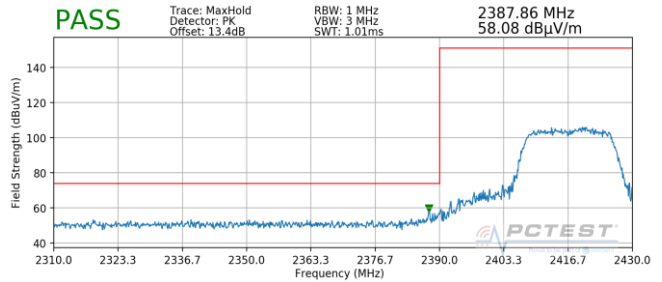


Plot 7-160. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



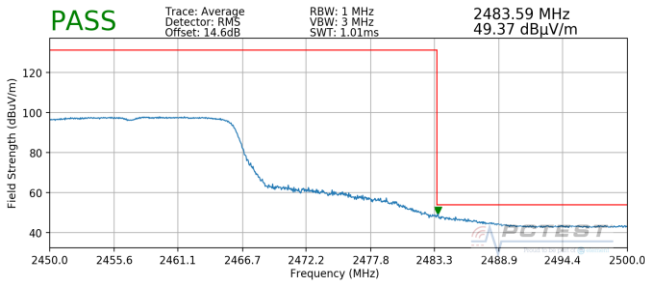
Plot 7-161. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



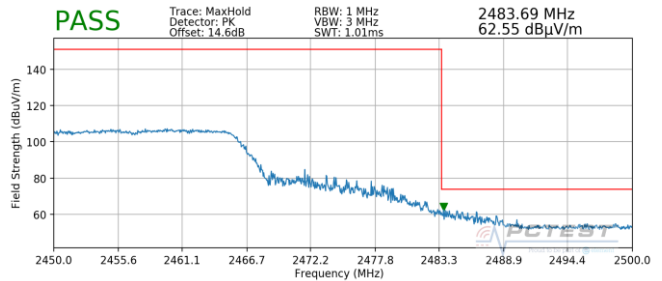
Plot 7-162. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 109 of 124

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10

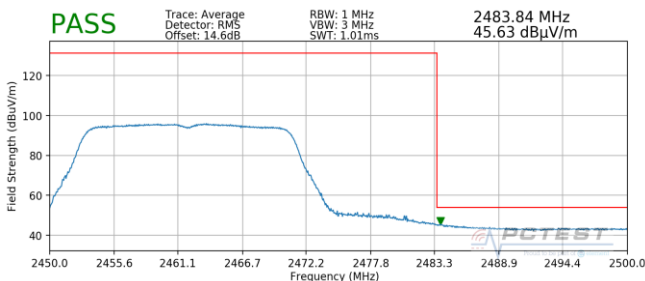


Plot 7-163. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

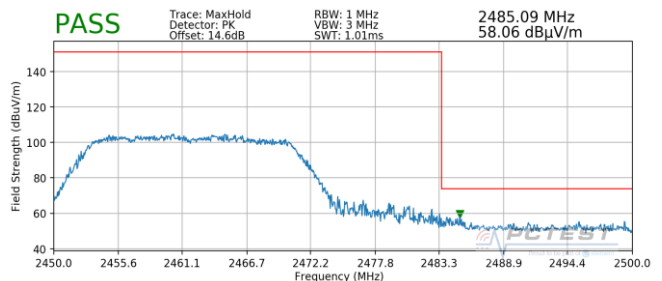


Plot 7-164. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



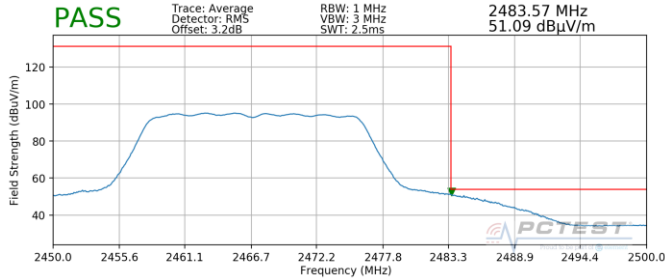
Plot 7-165. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



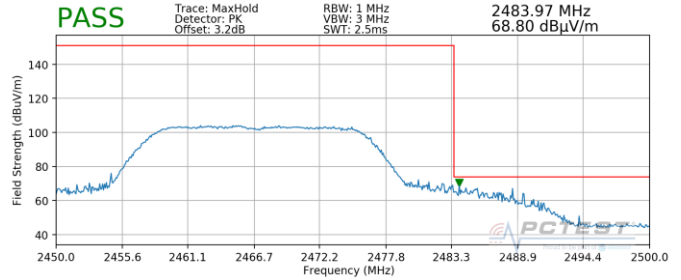
Plot 7-166. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset		Page 110 of 124

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

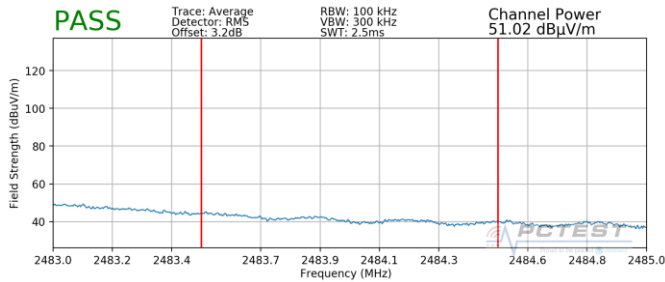


Plot 7-167. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

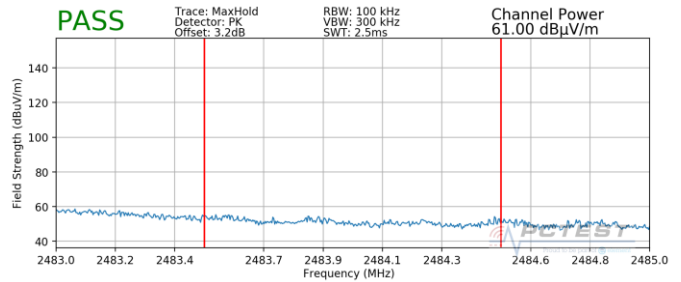


Plot 7-168. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



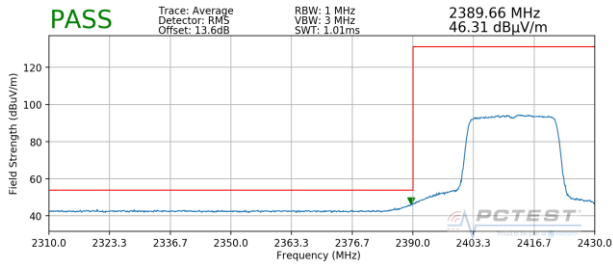
Plot 7-169. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



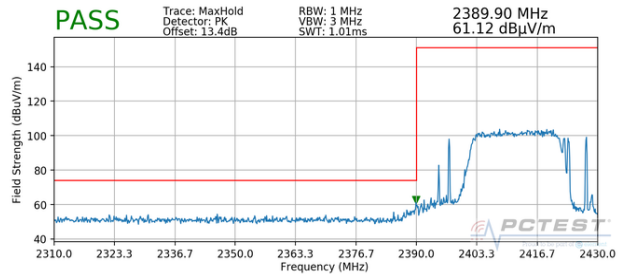
Plot 7-170. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 111 of 124

Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

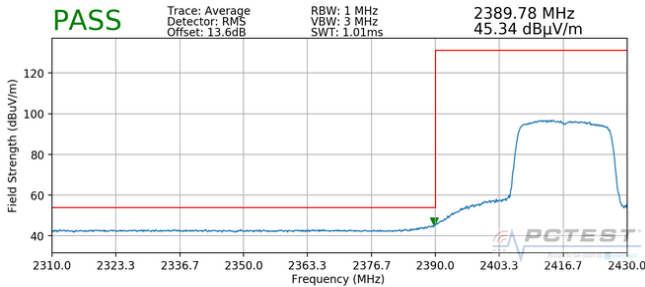


Plot 7-171. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

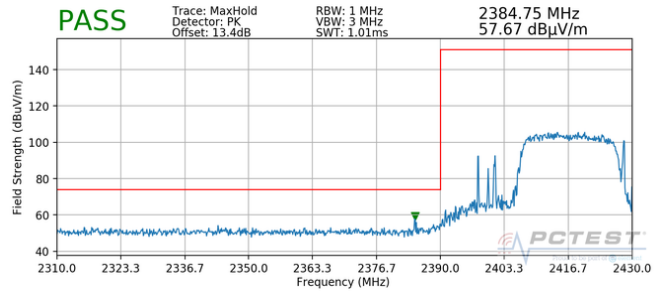


Plot 7-172. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



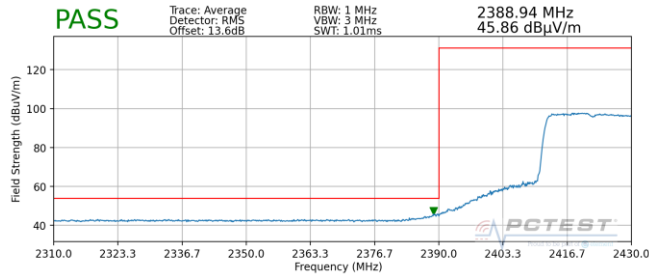
Plot 7-173. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



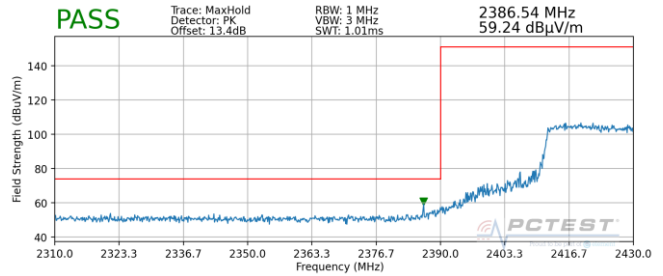
Plot 7-174. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS908E	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2109220110-07.A3L	Test Dates: 9/14/2021 - 12/8/2021	EUT Type: Portable Handset	Page 112 of 124

Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3

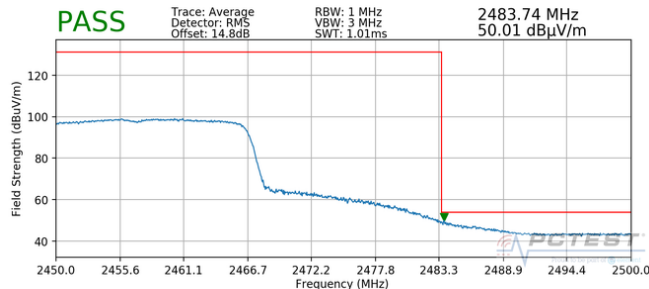


Plot 7-175. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

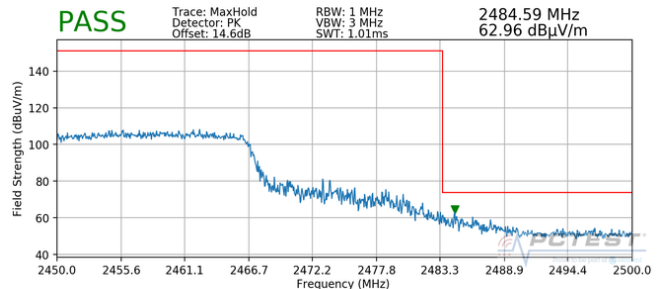


Plot 7-176. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



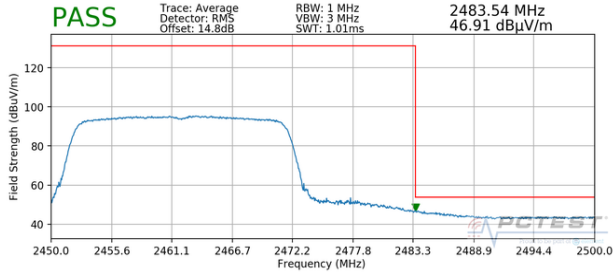
Plot 7-177. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



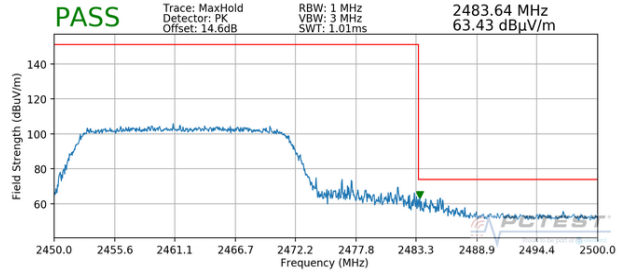
Plot 7-178. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

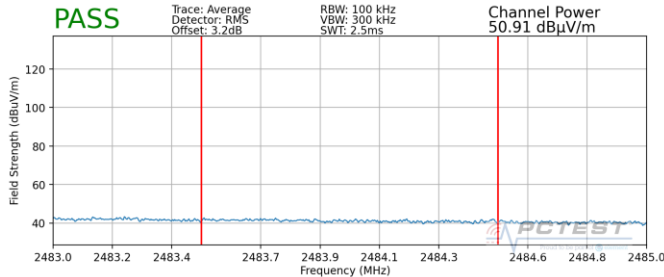


Plot 7-179. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

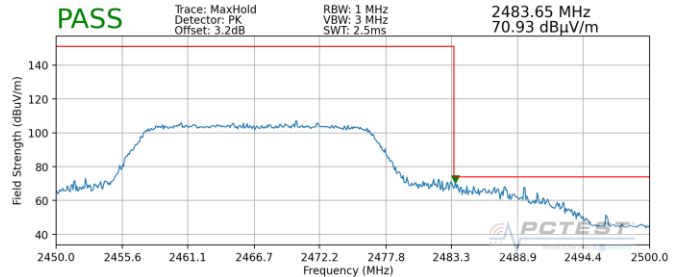


Plot 7-180. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



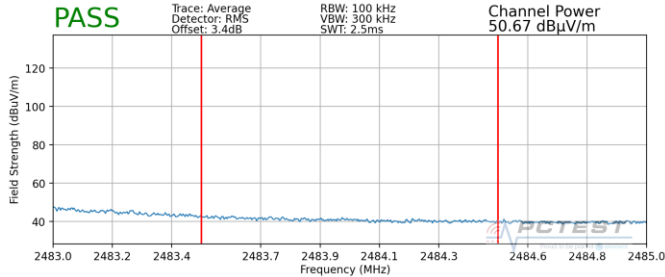
Plot 7-181. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



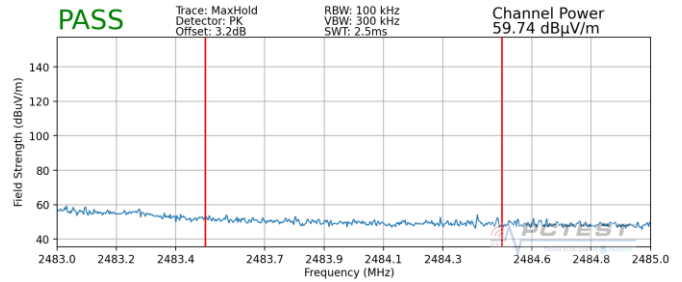
Plot 7-182. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-183. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-184. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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7.8 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 7-26 per Section 15.209 and RSS-Gen (8.9).

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 7-26. 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.

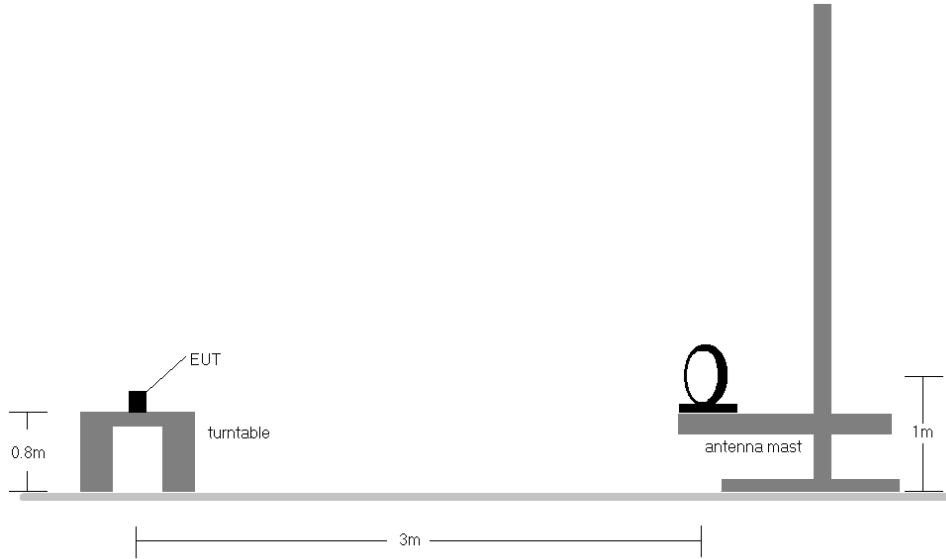


Figure 7-7. Radiated Test Setup < 30Mhz

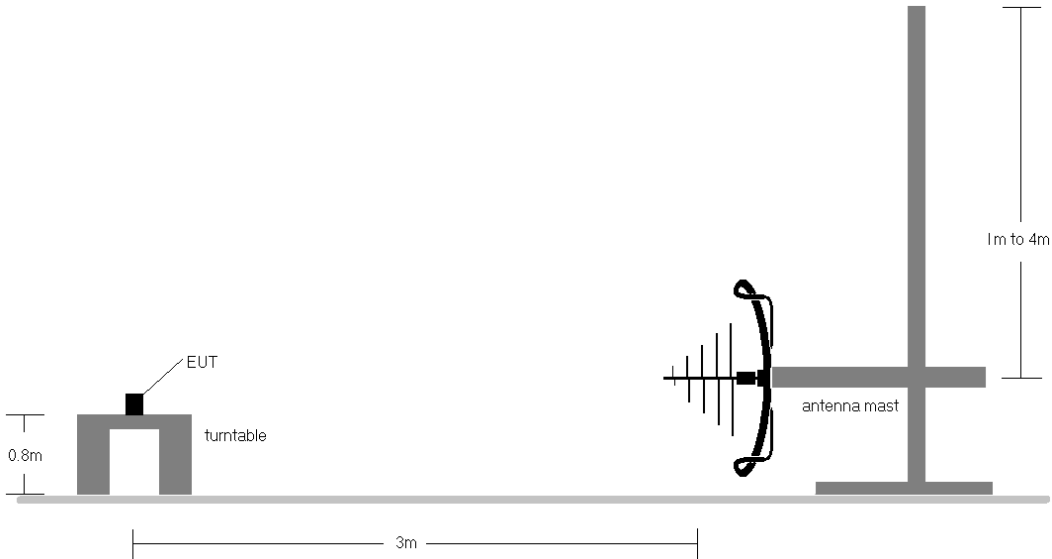


Figure 7-8. Radiated Test Setup < 1GHz

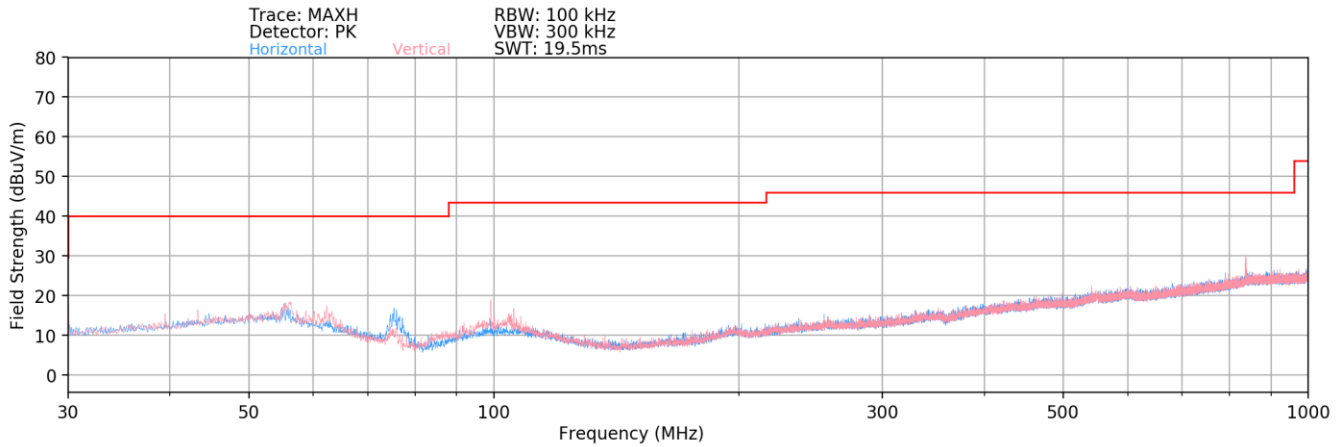
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-26.
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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CDD Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-185. Radiated Spurious Plot below 1GHz CDD

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7.9 Line-Conducted Test Data

§15.207; 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 (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 7-27. 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.

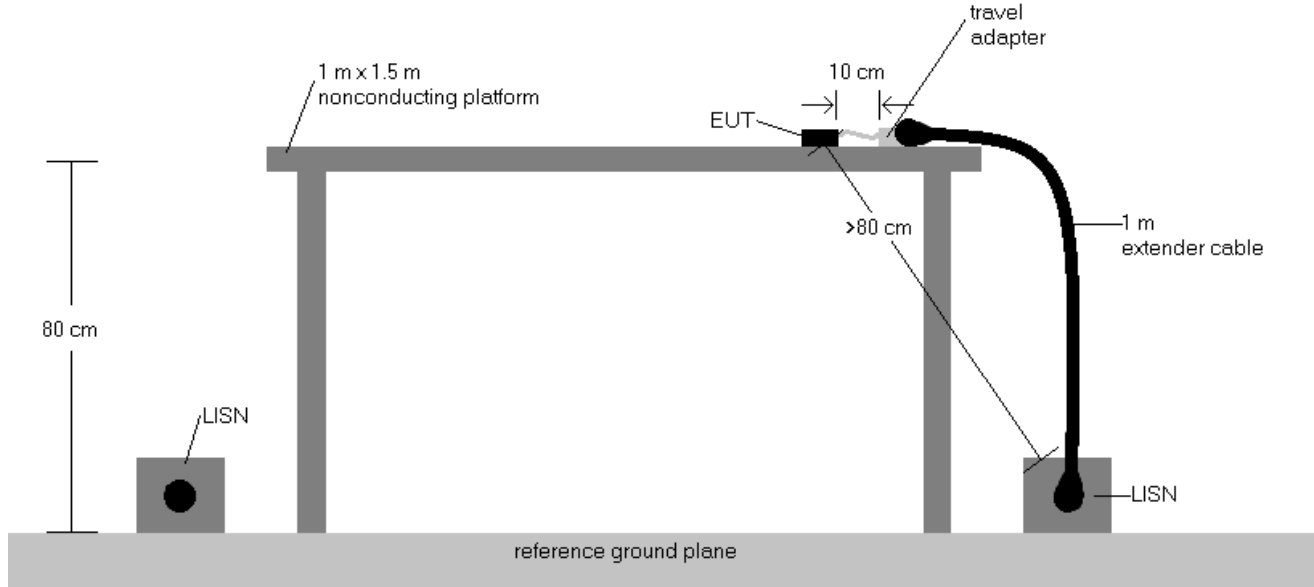
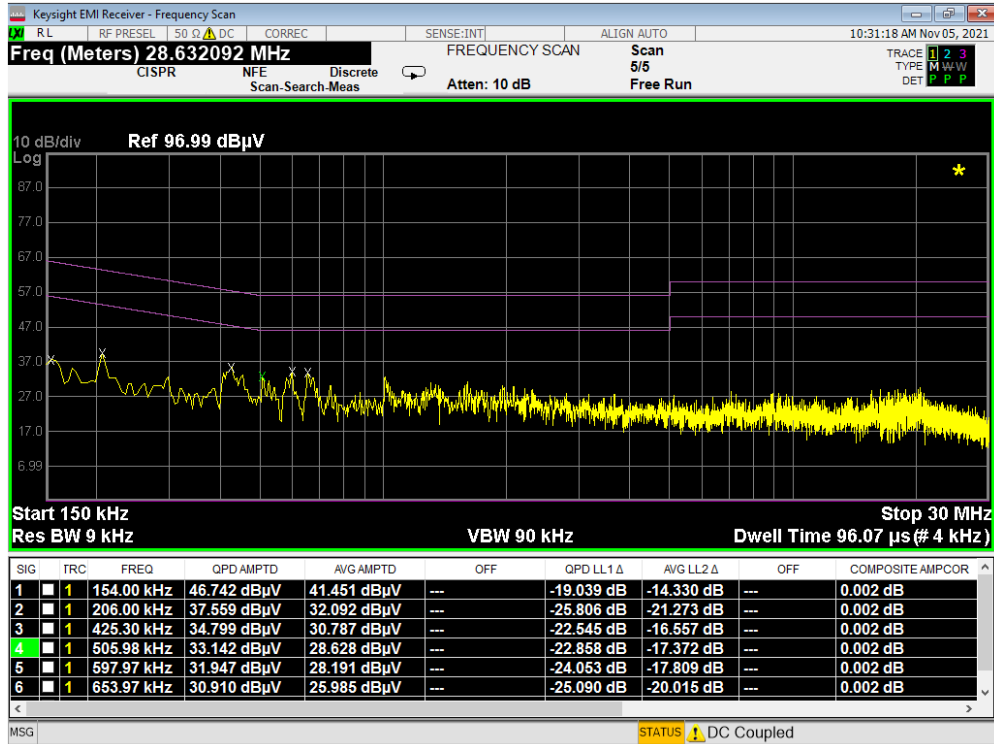


Figure 7-9. Test Instrument & Measurement Setup

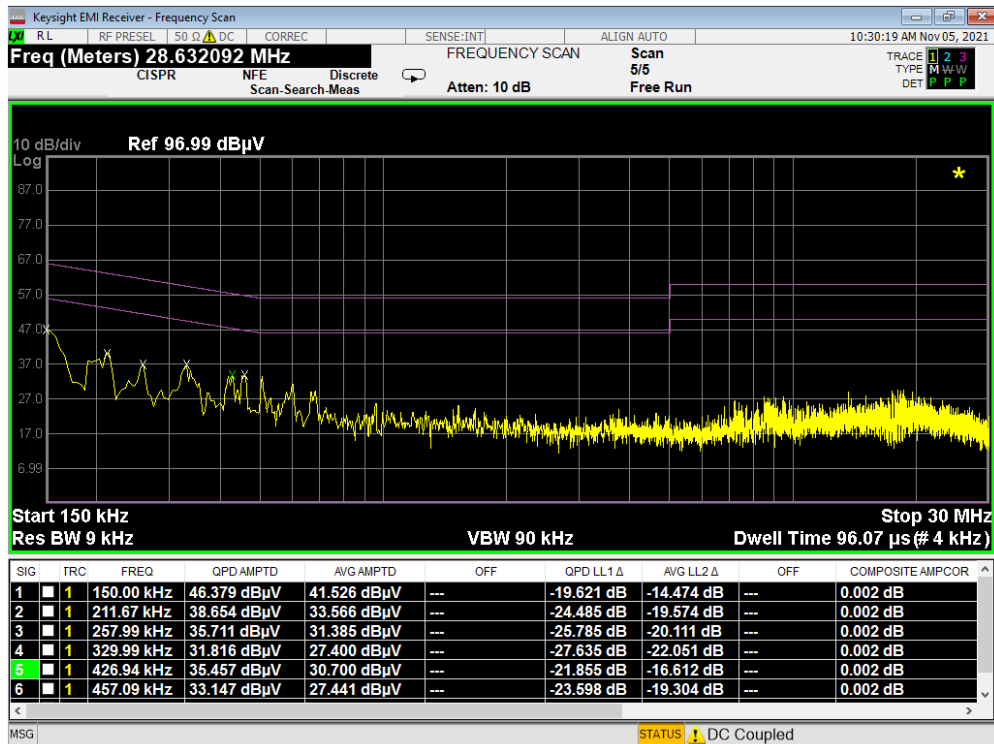
Test Notes

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 Part 15.207 and RSS-Gen(8.8).
3. $Corr. (dB) = Cable\ loss (dB) + LISN\ insertion\ factor (dB)$
4. $QP/AV\ Level (dB\mu V) = QP/AV\ Analyzer/Receiver\ Level (dB\mu V) + Corr. (dB)$
5. $Margin (dB) = QP/AV\ Limit (dB\mu V) - QP/AV\ Level (dB\mu V)$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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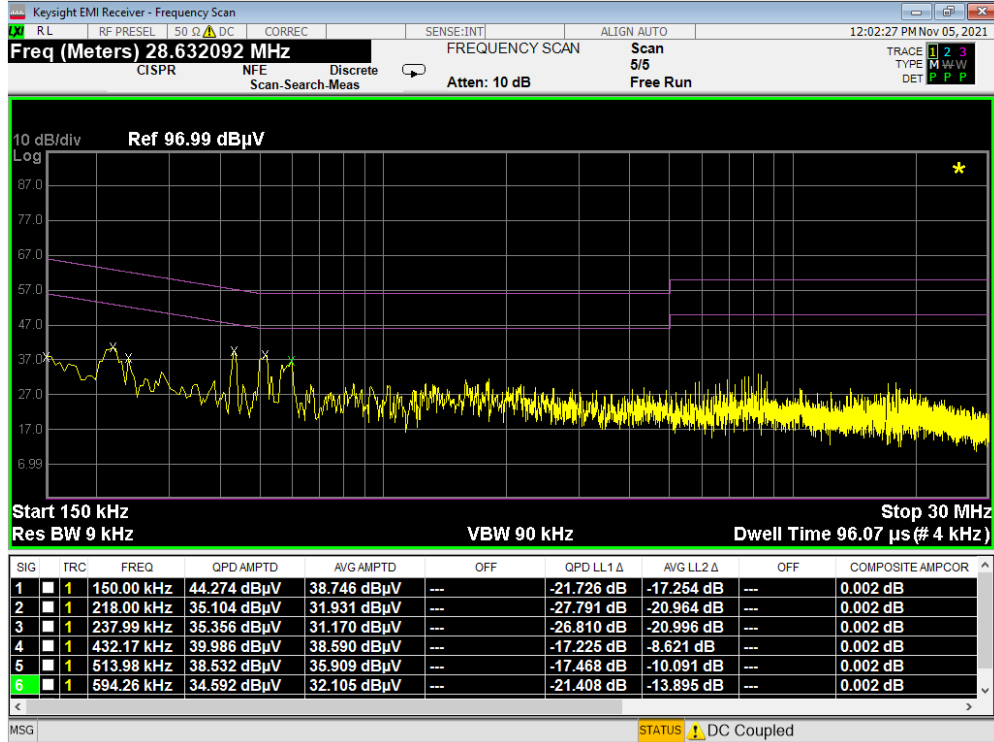


Plot 7-186. Line Conducted Plot with 802.11b (L1)

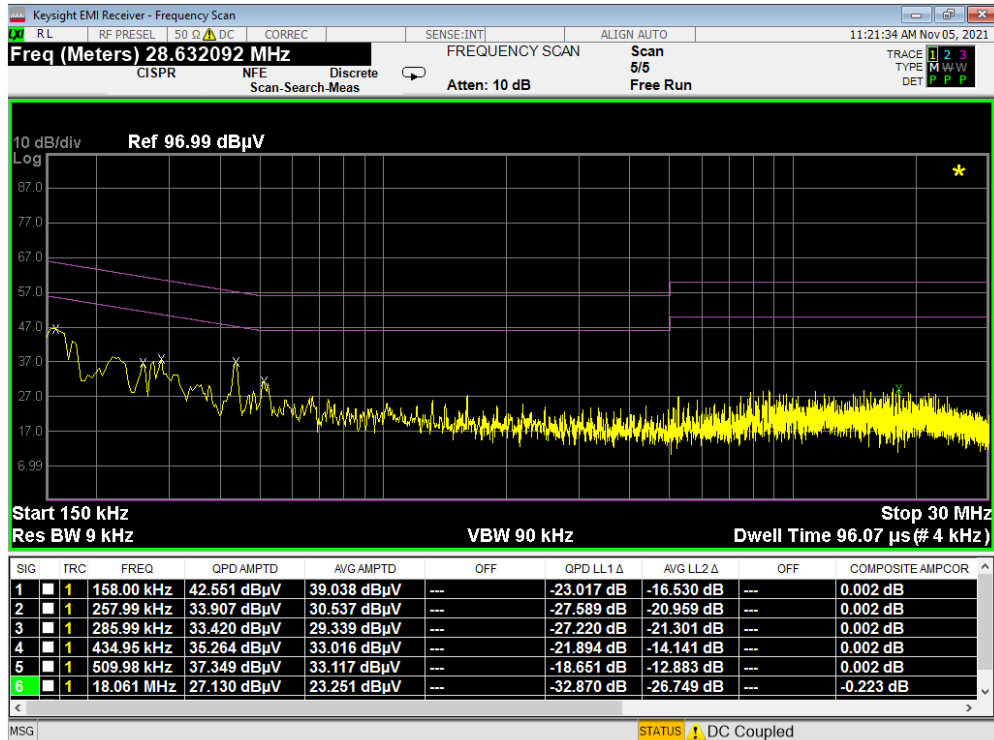


Plot 7-187. Line Conducted Plot with 802.11b (N)

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Plot 7-188. Line Conducted Plot with 802.11b (L1) WCP



Plot 7-189. Line Conducted Plot with 802.11b (N) 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: A3LSMS908E** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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