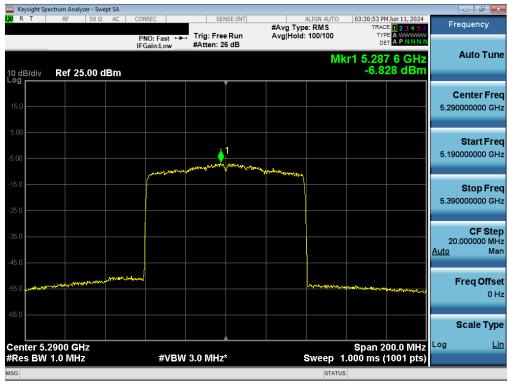


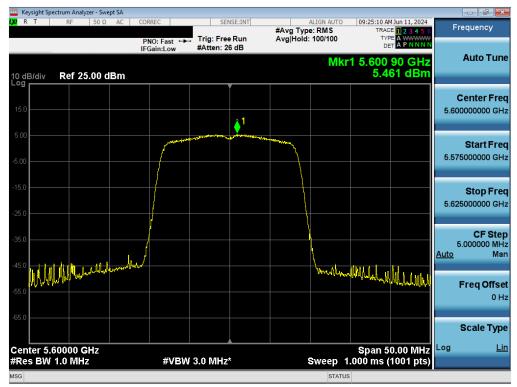
Plot 7-98. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



Plot 7-99. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 77 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 77 of 146





Plot 7-100. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) - Ch. 120)

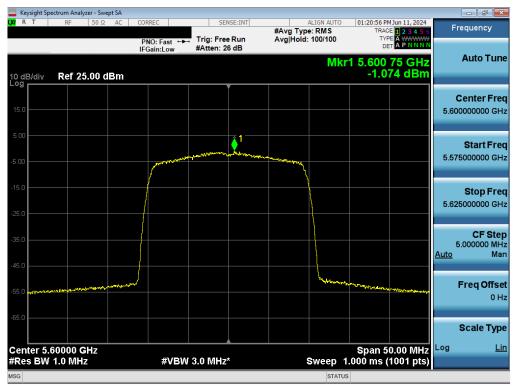


Plot 7-101. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 70 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 78 of 146

/11.1 08/28/2023





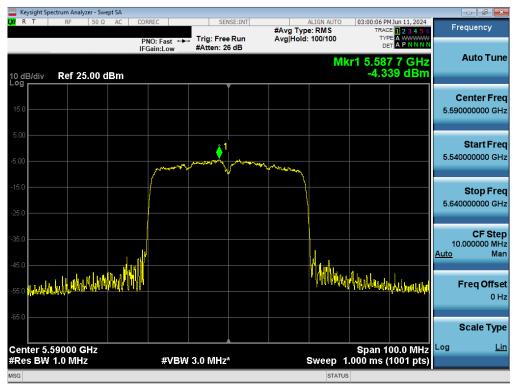
Plot 7-102. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)



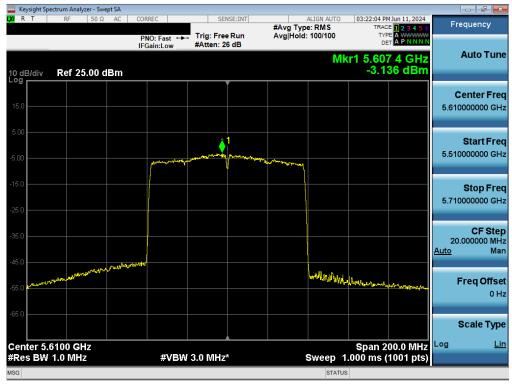
Plot 7-103. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 79 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye 19 01 140





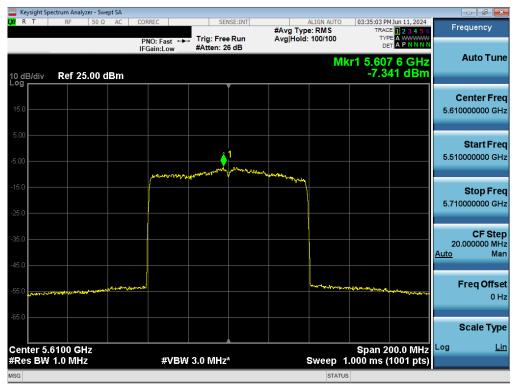
Plot 7-104. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



Plot 7-105. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 80 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage ou ul 140





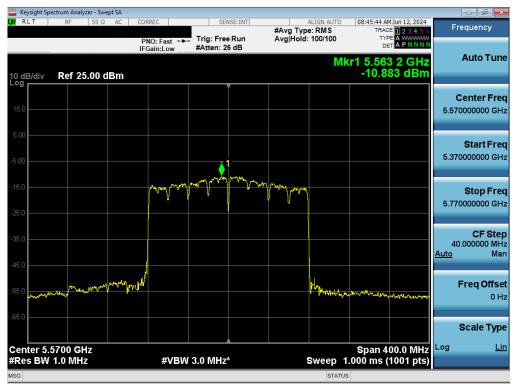
Plot 7-106. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



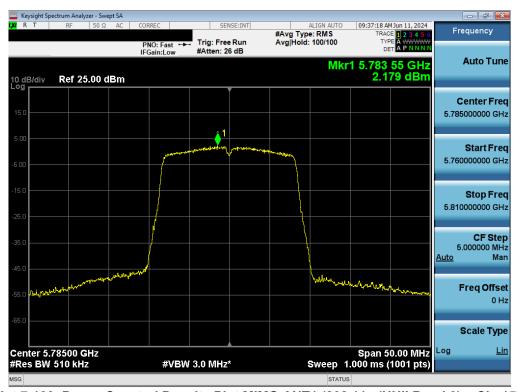
Plot 7-107. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 81 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage of or 140





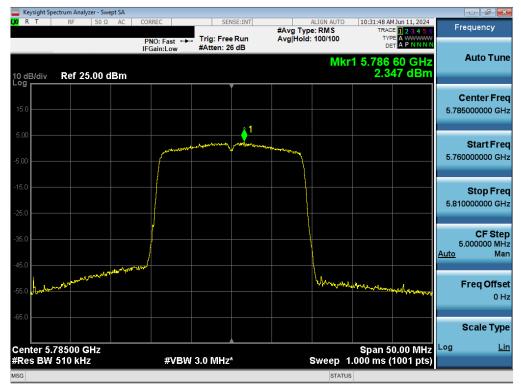
Plot 7-108. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



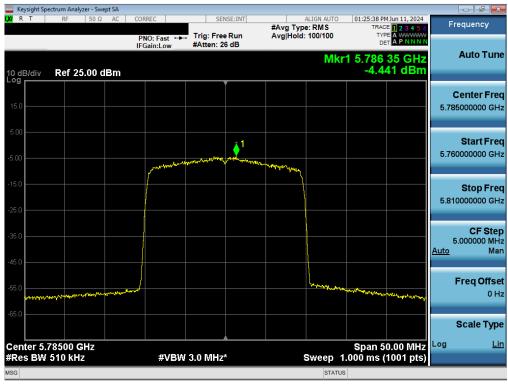
Plot 7-109. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 82 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye oz ul 140





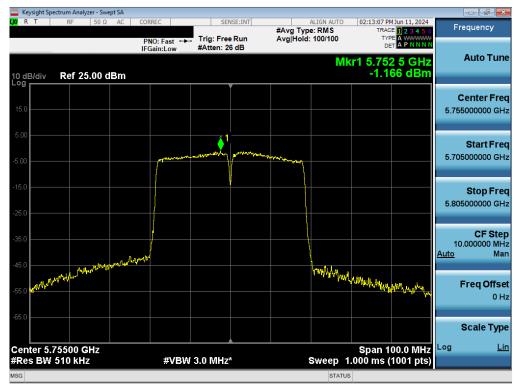
Plot 7-110. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



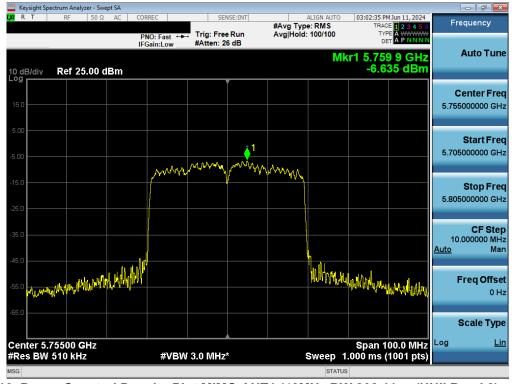
Plot 7-111. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 83 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye oo oo 140





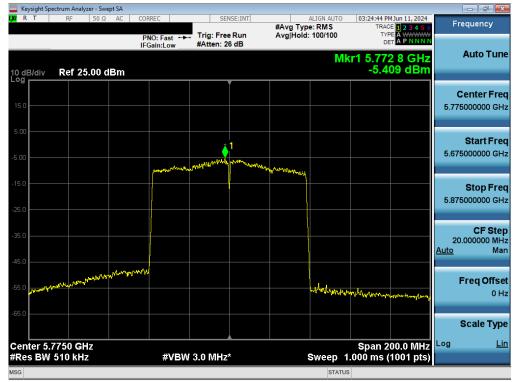
Plot 7-112. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



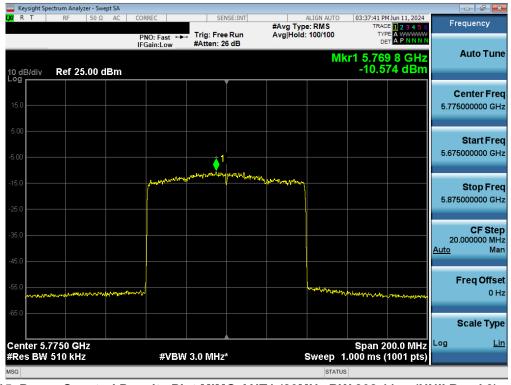
Plot 7-113. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 94 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 84 of 146





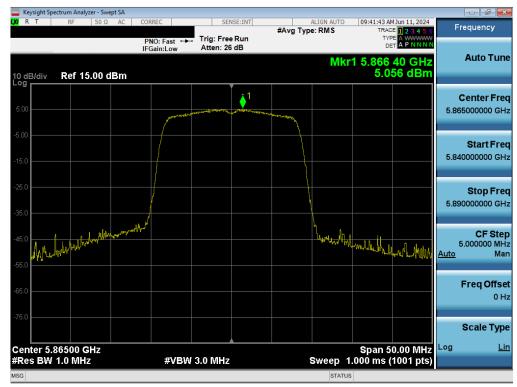
Plot 7-114. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



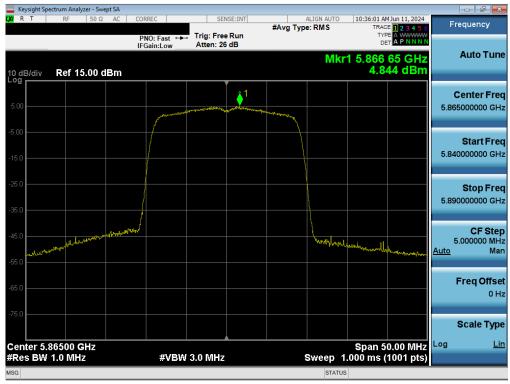
Plot 7-115. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 85 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye oo oi 140





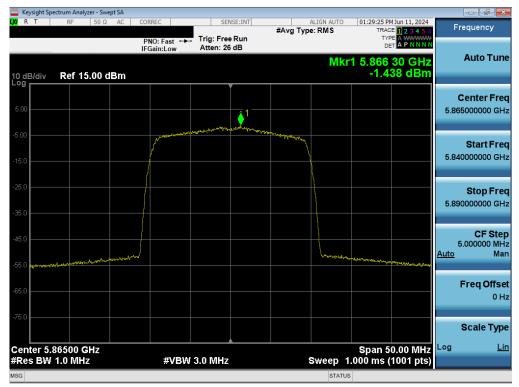
Plot 7-116. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) - Ch. 173)



Plot 7-117. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye oo oi 140





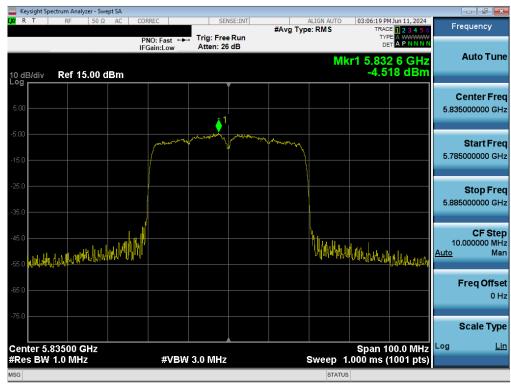
Plot 7-118. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



Plot 7-119. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 97 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 87 of 146





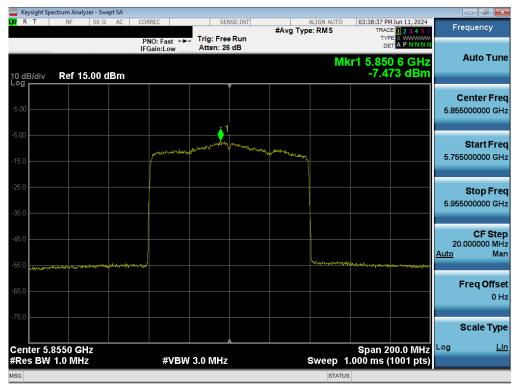
Plot 7-120. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



Plot 7-121. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 88 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye oo oi 140





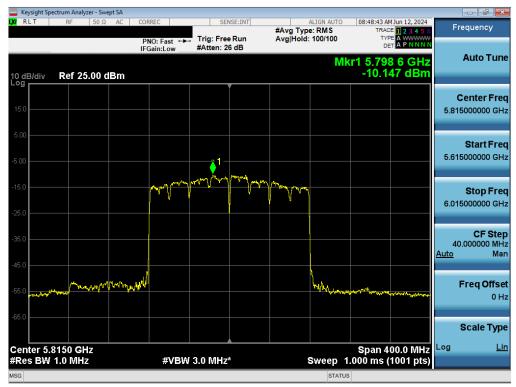
Plot 7-122. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



Plot 7-123. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 90 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 89 of 146





Plot 7-124. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 90 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage 90 of 140



## 7.5.2 MIMO Antenna-2 Power Spectral Density Measurements



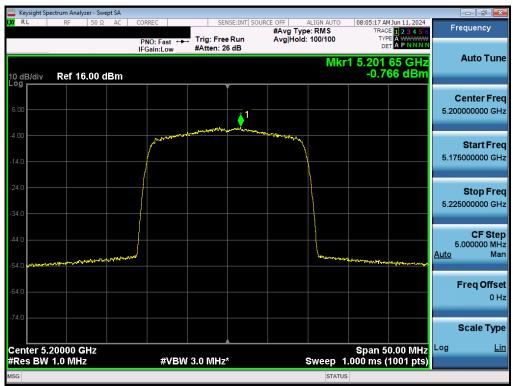
Plot 7-125. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 40)



Plot 7-126. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 91 of 146





Plot 7-127. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)



Plot 7-128. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Fage 92 01 140





Plot 7-129. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)



Plot 7-130. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

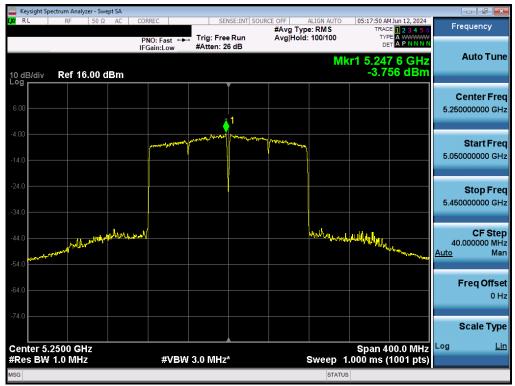
FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 93 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye 95 01 140

V11.1 08/28/2023





Plot 7-131. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



Plot 7-132. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 04 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 94 of 146

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V11.1 08/28/2023

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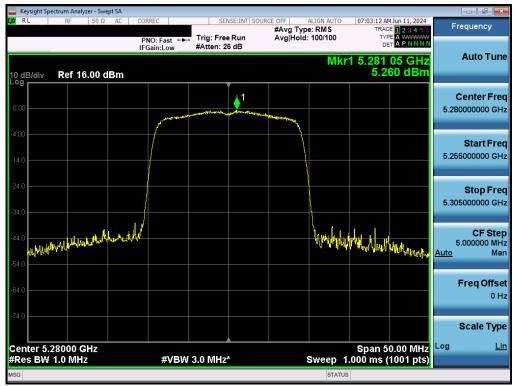
Plot 7-133. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



Plot 7-134. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 95 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Fage 95 01 140





Plot 7-135. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

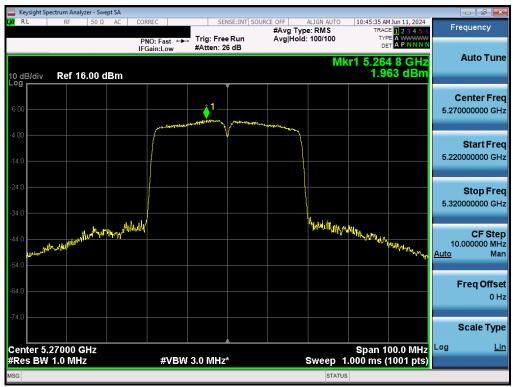


Plot 7-136. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

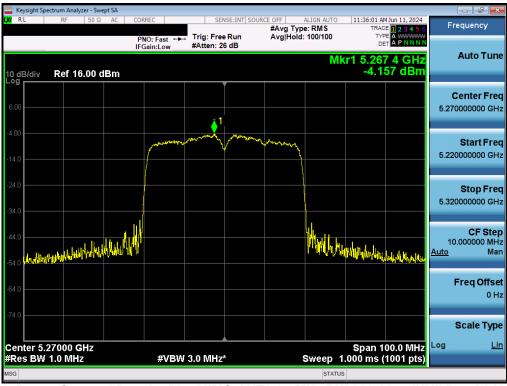
FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 96 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage 90 of 140

/11.1 08/28/2023





Plot 7-137. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



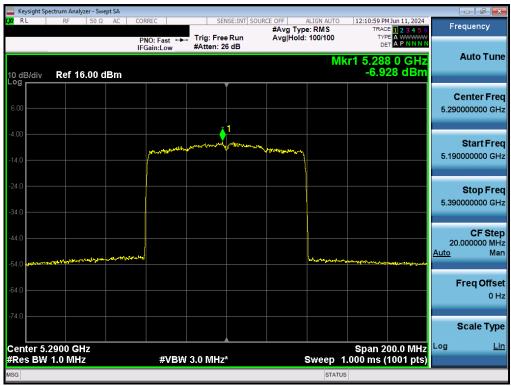
Plot 7-138. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 97 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye 97 01 140





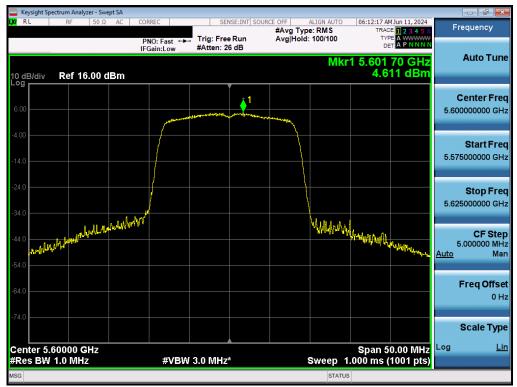
Plot 7-139. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



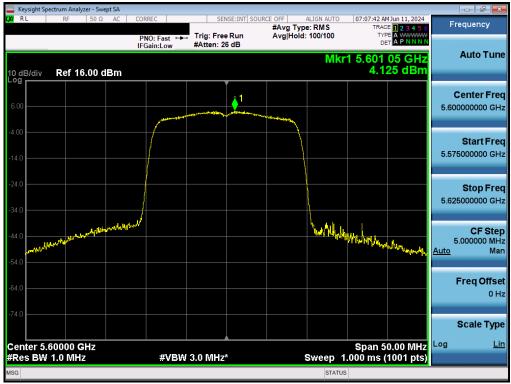
Plot 7-140. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 00 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 98 of 146





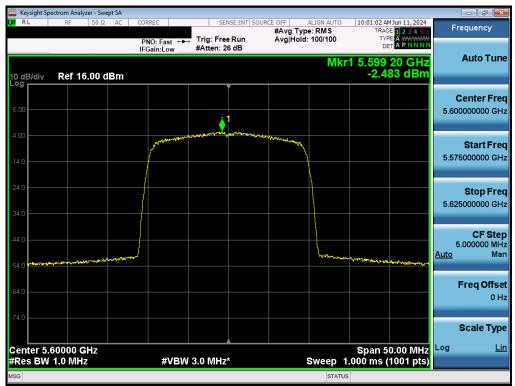
Plot 7-141. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 120)



Plot 7-142. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 00 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 99 of 146





Plot 7-143. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)



Plot 7-144. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 100 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 100 of 146





Plot 7-145. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



Plot 7-146. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 101 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 101 of 146





Plot 7-147. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



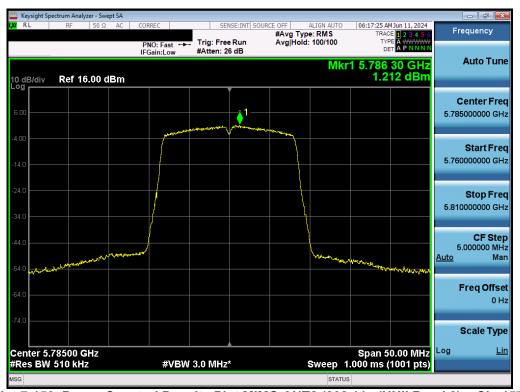
Plot 7-148. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 102 of 146





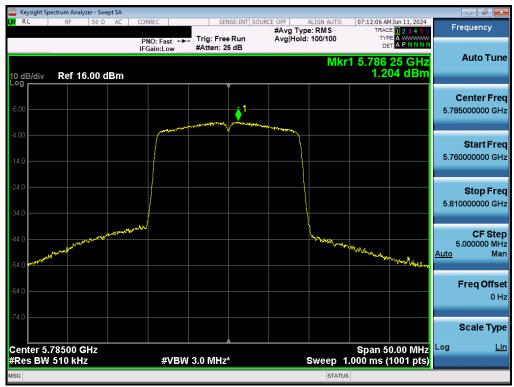
Plot 7-149. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



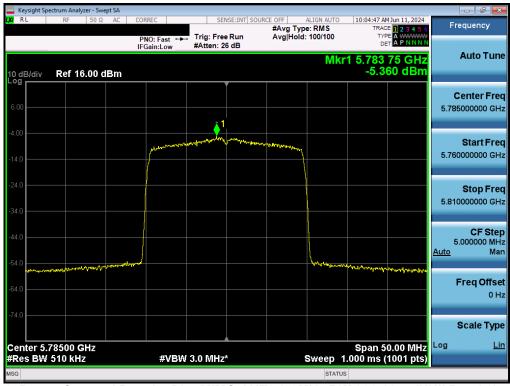
Plot 7-150. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 103 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 103 01 140





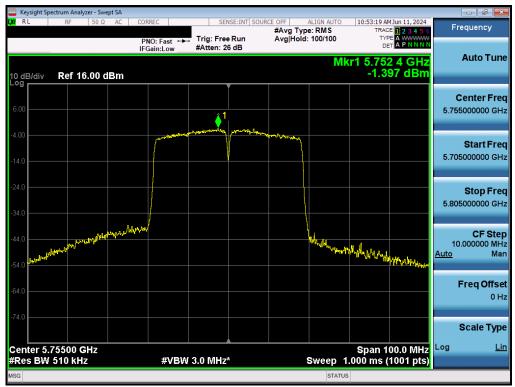
Plot 7-151. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



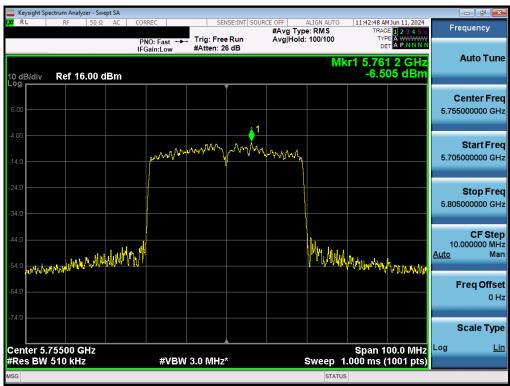
Plot 7-152. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 104 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 104 of 146





Plot 7-153. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



Plot 7-154. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 105 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage 100 01 140





Plot 7-155. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



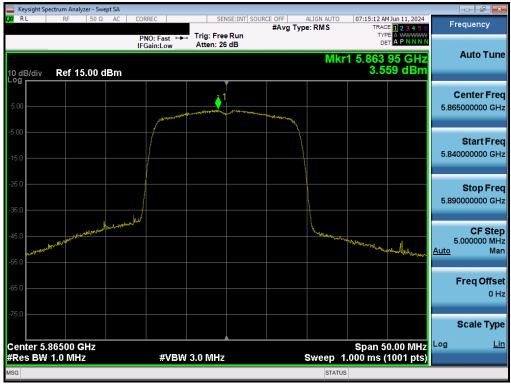
Plot 7-156. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 106 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage 100 01 140





Plot 7-157. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) - Ch. 173)



Plot 7-158. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 107 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	rage 107 01 140





Plot 7-159. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



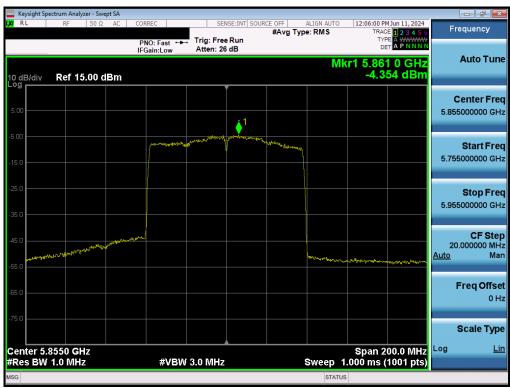
Plot 7-160. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 100 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 108 of 146





Plot 7-161. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



Plot 7-162. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 100 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 109 of 146





Plot 7-163. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



Plot 7-164. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 110 of 116
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 110 of 146





Plot 7-165. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 111 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 111 01 140



## Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna-1 and Antenna-2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

## **Sample MIMO Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.64 dBm for Antenna 1 and 5.00 dBm for Antenna 2.

(5.64 dBm + 5.00 dBm) = (3.66 mW + 3.16 mW) = 6.82 mW = 8.34 dBm

FCC ID: A3LSMX820	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 112 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	raye 112 01 140



#### 7.6 Radiated Emission Measurements

### **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 at the appropriate frequencies. All channels, modes, 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 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dMb/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

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 the table below per FCC §15.209 and RSS-Gen (8.9).

Frequency	Field Strength [  [	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 7-22. Radiated Limits

#### **Test Procedures Used**

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions) ANSI C63.10-2013 – Section 12.7.4.4 (Band Edge Measurements)

FCC ID: A3LSMX820		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dogo 112 of 146			
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 113 of 146			



#### **Test Settings - Above 1GHz**

## <u>Average Field Strength Measurements (Method AD – Average Detection)</u>

- 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)
- Number of measurement points = 1001 (Number of points must be ≥ 2 x 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.

### <u>Test Settings – Below 1GHz</u>

### **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.

#### **Test Setup**

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

FCC ID: A3LSMX820		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dogo 114 of 146			
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 114 of 146			



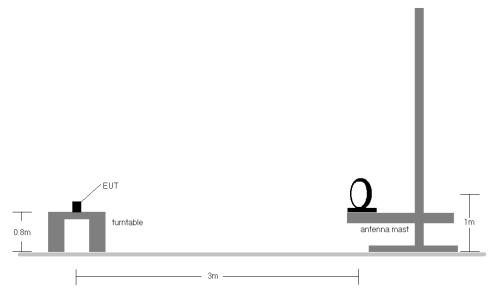


Figure 7-5. Radiated Test Setup < 30MHz

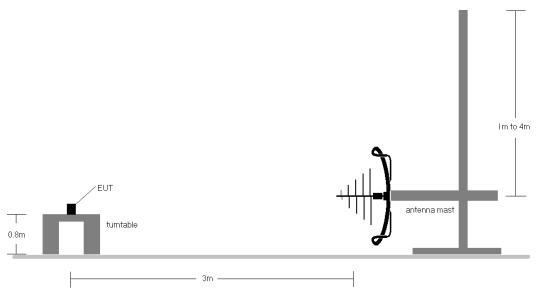


Figure 7-6. Radiated Test Setup < 1GHz

FCC ID: A3LSMX820		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 115 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 115 01 140



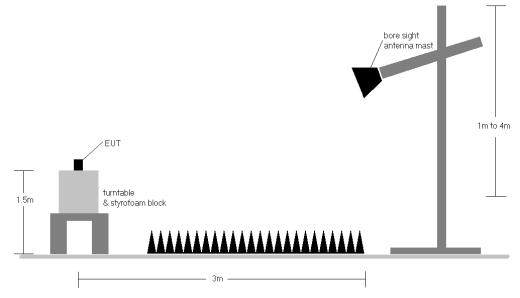


Figure 7-7. Radiated Test Setup > 1GHz

FCC ID: A3LSMX820		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 116 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 110 01 140



#### **Test Notes**

- 1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dBμV/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 68.2dBμV/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 [ $68.2dB_{\mu}V/m$ ]. 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.
- In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
- 10. The results recorded using the broadband antenna are 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.

FCC ID: A3LSMX820		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dog 117 of 146			
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 117 of 146			



### **Sample Calculations**

## **Determining Spurious Emissions Levels**

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

### **Radiated Band Edge Measurement Offset**

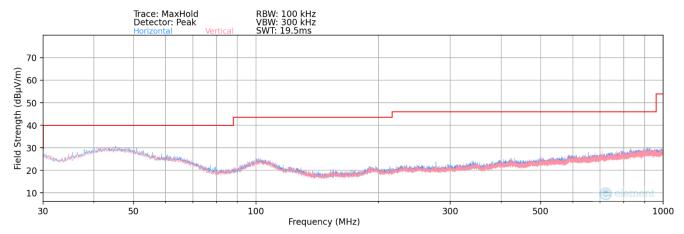
o The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

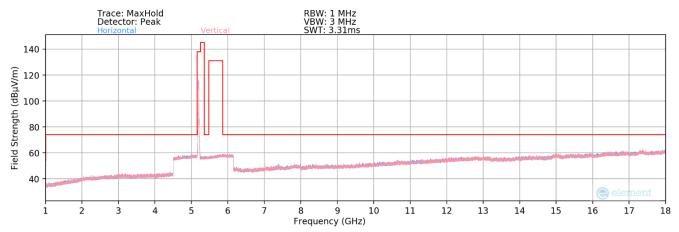
FCC ID: A3LSMX820		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dogo 119 of 146			
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 118 of 146			



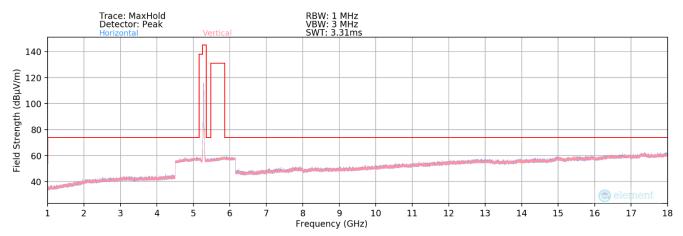
## 7.6.1 MIMO Radiated Spurious Emission Measurements



Plot 7-166. Radiated Spurious Plot below 1GHz MIMO (802.11a)



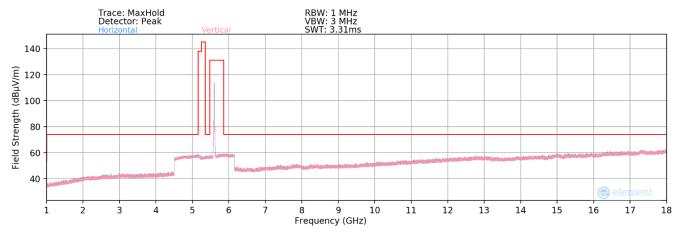
Plot 7-167. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 1 Ch. 40)



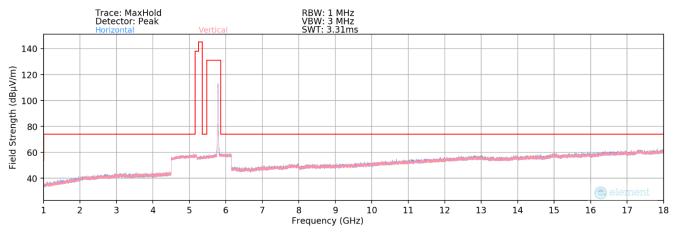
Plot 7-168. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 2A Ch. 56)

FCC ID: A3LSMX820		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 119 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 119 01 140

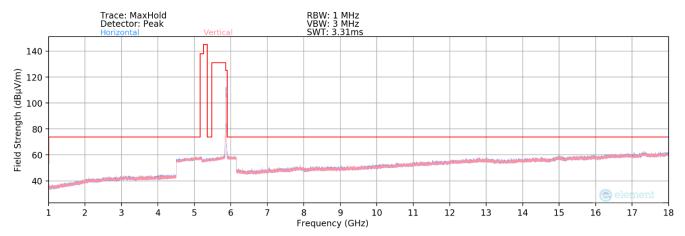




Plot 7-169. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 2C Ch. 120)



Plot 7-170. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 3 Ch. 157)

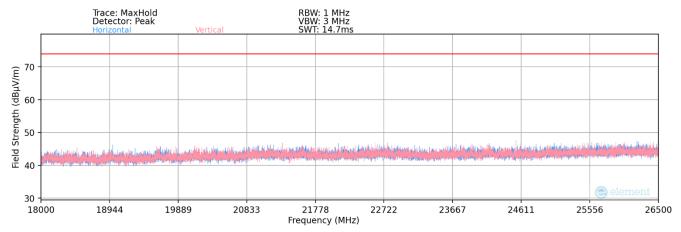


Plot 7-171. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 4 Ch. 173)

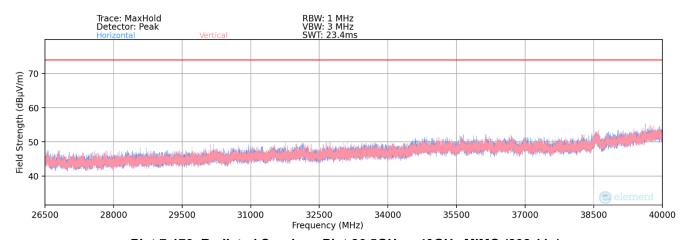
FCC ID: A3LSMX820		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 146		
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 120 of 146		

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Plot 7-172. Radiated Spurious Plot 18GHz – 26.5GHz MIMO (802.11a)



Plot 7-173. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

FCC ID: A3LSMX820		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 121 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 121 01 140



# MIMO Radiated Spurious Emission Measurements – UNII Band 1

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]											
						10360.00	Peak	V	112	31	-67.94	16.03	0.00	55.09	68.20	-13.11											
					*	15540.00	Average	V	-	-	-82.44	23.04	0.00	47.60	53.98	-6.38											
			36	5180	*	15540.00	Peak	V	-	-	-70.66	23.04	0.00	59.38	73.98	-14.60											
			36	5180	*	20720.00	Average	V	-	-	-65.21	3.16	-9.54	35.41	53.98	-18.57											
					*	20720.00	Peak	V	-	-	-55.33	3.16	-9.54	45.29	73.98	-28.69											
											25900.00	Peak	V	-	-	-54.44	4.24	-9.54	47.26	68.20	-20.94						
						10400.00	Peak	V	115	21	-67.83	16.25	0.00	55.42	68.20	-12.78											
					*	15600.00	Average	V	-	-	-81.88	23.40	0.00	48.52	53.98	-5.46											
802.11a	MIMO	1	40	5200	*	15600.00	Peak	V	-	-	-69.45	23.40	0.00	60.95	73.98	-13.03											
			40	5200	*	20800.00	Average	V	-	-	-63.88	3.15	-9.54	36.73	53.98	-17.25											
						*	20800.00	Peak	V	-	-	-55.65	3.15	-9.54	44.96	73.98	-29.02										
						26000.00	Peak	V	-		-54.68	4.16	-9.54	46.94	68.20	-21.26											
						10480.00	Peak	V	118	21	-67.24	16.26	0.00	56.02	68.20	-12.18											
																*	15720.00	Ave ra ge	V	-	-	-82.42	23.33	0.00	47.91	53.98	-6.07
			48	5240	*	15720.00	Peak	V	-	-	-71.32	23.33	0.00	59.01	73.98	-14.97											
						20960.00	Peak	V	-	-	-54.04	3.27	-9.54	46.70	68.20	-21.50											
						26200.00	Peak	V	-	-	-55.15	3.96	-9.54	46.27	68.20	-21.93											

Table 7-23. Radiated Measurements MIMO

FCC ID: A3LSMX820		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dogo 122 of 146				
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 122 of 146				



## MIMO Radiated Spurious Emission Measurements – UNII Band 2A

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBµV/m]	Margin [dB]																	
						10520.00	Peak	V	143	21	-67.83	16.33	0.00	55.50	68.20	-12.70																	
					*	15780.00	Average	V	-	-	-82.16	23.33	0.00	48.17	53.98	-5.81																	
			52	5260	*	15780.00	Peak	v	-		-70.71	23.33	0.00	59.62	73.98	-14.36																	
			32	3260	*	21040.00	Average	V	-		-63.54	3.35	-9.54	37.27	53.98	-16.71																	
					*	21040.00	Peak	V	-		-54.41	3.35	-9.54	46.40	73.98	-27.58																	
						26300.00	Peak	V	-	-	-54.73	3.91	-9.54	46.64	68.20	-21.56																	
						10560.00	Peak	V	155	21	-68.74	16.58	0.00	54.84	68.20	-13.36																	
					*	15840.00	Average	V	-		-82.18	23.62	0.00	48.44	53.98	-5.54																	
			56	5200	*	15840.00	Peak	V	-		-70.67	23.62	0.00	59.95	73.98	-14.03																	
802.11a	MIMO	2A	36	5280	5280	5280	5280	3280	3280	3280	3280	3280	5280	5280	3280	3280	3280	3280	5280	5280	5280	*	21120.00	Average	V	-		-63.86	3.46	-9.54	37.06	53.98	-16.92
					*	21120.00	Peak	V			-55.46	3.46	-9.54	45.46	73.98	-28.52																	
						26400.00	Peak	V			-55.26	3.71	-9.54	45.91	68.20	-22.29																	
					*	10640.00	Average	V	155	17	-80.76	16.85	0.00	43.09	53.98	-10.88																	
					*	10640.00	Peak	V	155	17	-69.55	16.85	0.00	54.30	73.98	-19.68																	
					*	15960.00	Average	V	-		-82.15	24.02	0.00	48.87	53.98	-5.11																	
			64	5320	*	15960.00	Peak	V		,	-70.39	24.02	0.00	60.63	73.98	-13.35																	
					*	21280.00	Average	V	-	,	-64.30	3.58	-9.54	36.74	53.98	-17.24																	
					*	21280.00	Peak	V			-55.26	3.58	-9.54	45.78	73.98	-28.20																	
						26600.00	Peak	V	-	-	-55.62	3.91	-9.54	45.76	68.20	-22.44																	

Table 7-24. Radiated Measurements MIMO

FCC ID: A3LSMX820		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 123 of 146				
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet					



# MIMO Radiated Spurious Emission Measurements – UNII Band 2C

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]				
					*	11000.00	Average	V	-	-	-81.62	17.49	0.00	42.87	53.98	-11.11				
					*	11000.00	Peak	V	-	-	-69.82	17.49	-9.54	45.13	73.98	-28.85				
			100	5500		16500.00	Peak	V	-	-	-71.41	25.00	-9.54	51.05	68.20	-17.15				
						22000.00	Peak	v	-	-	-55.09	3.53	-9.54	45.89	68.20	-22.31				
						27500.00	Peak	V	-	-	-55.19	3.97	-9.54	46.24	68.20	-21.96				
					*	11200.00	Average	V	127	153	-80.60	17.61	0.00	44.01	53.98	-9.97				
					*	11200.00	Peak	V	127	153	-69.06	17.61	0.00	55.55	73.98	-18.43				
			120	5600		16800.00	Peak	V	-	-	-70.48	24.98	0.00	61.50	68.20	-6.70				
802.11a	MIMO	2C	120	3600	*	22400.00	Ave ra ge	V	-	-	-63.75	3.58	-9.54	37.29	53.98	-16.69				
					*	22400.00	Peak	V	-	-	-54.44	3.58	-9.54	46.59	73.98	-27.39				
						28000.00	Peak	V	-	-	-55.74	4.52	-9.54	46.24	68.20	-21.96				
					*	11440.00	Average	V	-	-	-81.68	18.15	0.00	43.47	53.98	-10.51				
					*	11440.00	Peak	V	-	-	-70.39	18.15	0.00	54.76	73.98	-19.22				
			144	5720		17160.00	Peak	V	-	-	-71.21	25.10	0.00	60.89	68.20	-7.31				
			144	3/20	*	22880.00	Average	V	-	-	-63.90	3.76	-9.54	37.31	53.98	-16.67				
					*	22880.00	Peak	V	-	-	-54.27	3.76	-9.54	46.94	73.98	-27.04				
										28600.00	Peak	V	-	-	-54.20	4.96	-9.54	48.22	68.20	-19.98

Table 7-25. Radiated Measurements MIMO

FCC ID: A3LSMX820		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dogo 124 of 146				
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 124 of 146				



# MIMO Radiated Spurious Emission Measurements – UNII Band 3

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
					*	11490.00	Average	V	-	-	-81.82	18.28	0.00	43.46	53.98	-10.52
		140			*	11490.00	Peak	V	-	-	-70.52	18.28	0.00	54.76	73.98	-19.22
			149	5745		17235.00	Peak	V	-	-	-70.71	25.51	0.00	61.80	68.20	-6.40
			149	3/43	*	22980.00	Average	V	-	-	-64.04	3.66	-9.54	37.08	53.98	-16.90
					*	22980.00	Peak	V	-	-	-56.05	3.66	-9.54	45.07	73.98	-28.91
						28725.00	Peak	V	-	-	-55.67	5.05	-9.54	46.85	68.20	-21.35
					*	11570.00	Average	V	-	-	-81.45	18.16	0.00	43.71	53.98	-10.27
802.11a	MIMO	3			*	11570.00	Peak	V	-	-	-69.98	18.16	0.00	55.18	73.98	-18.80
802.11a	MIMO	3	157	5785		17355.00	Peak	V	-	-	-71.01	26.74	0.00	62.73	68.20	-5.47
						23140.00	Peak	V	-	-	-55.11	3.65	-9.54	46.01	68.20	-22.19
						28925.00	Peak	V	-	-	-55.77	4.92	-9.54	46.61	68.20	-21.59
					*	11650.00	Average	V	-	-	-81.61	18.25	0.00	43.64	53.98	-10.34
					*	11650.00	Peak	v	-	-	-69.94	18.25	0.00	55.31	73.98	-18.67
			165	5825		17475.00	Peak	V	-	-	-71.24	26.50	0.00	62.26	68.20	-5.94
						23300.00	Peak	V	-	-	-55.56	3.55	-9.54	45.45	68.20	-22.75
					29125.00	Peak	V	-	-	-55.62	5.01	-9.54	46.85	68.20	-21.35	

Table 7-26. Radiated Measurements MIMO

FCC ID: A3LSMX820		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 125 of 146
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Fage 125 01 140



# MIMO Radiated Spurious Emission Measurements – UNII Band 4

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
					*	11690.00	Average	V	-		-81.61	18.65	0.00	44.04	53.98	-9.94
					*	11690.00	Peak	V	-	-	-69.73	18.65	0.00	55.92	73.98	-18.06
			169	5845		17535.00	Peak	V	-	-	-71.88	26.34	0.00	61.46	68.20	-6.74
				3843		23380.00	Peak	V	-	-	-55.77	3.53	-9.54	45.22	68.20	-22.98
						29225.00	Peak	V	-	-	-55.70	5.04	-9.54	46.80	68.20	-21.40
						35070.00	Peak	V	-	-	-54.58	7.60	-9.54	50.48	68.20	-17.72
					*	11730.00	Average	V	-	-	-81.49	18.20	0.00	43.71	53.98	-10.27
					*	11730.00	Peak	V	-	-	-70.22	18.20	0.00	54.98	73.98	-19.00
002.11	MIMO		173	5065		17595.00	Peak	V	-	-	-71.55	26.29	0.00	61.74	68.20	-6.46
802.11a	MIMO	4	1/3	5865		23460.00	Peak	V	-	-	-55.56	3.57	-9.54	45.48	68.20	-22.72
						29325.00	Peak	V	-	-	-54.72	5.14	-9.54	47.88	68.20	-20.32
						35190.00	Peak	V	-	-	-55.12	7.80	-9.54	50.15	68.20	-18.05
					*	11770.00	Average	V	-	-	-81.50	18.48	0.00	43.98	53.98	-10.00
					*	11770.00	Peak	V	-	-	-69.79	18.48	0.00	55.69	73.98	-18.29
			177	5885		17655.00	Peak	V	-	-	-70.78	26.16	0.00	62.38	68.20	-5.82
			1//	3683		23540.00	Peak	V	-	-	-55.83	3.57	-9.54	45.21	68.20	-22.99
						29425.00	Peak	V	-	-	-55.07	5.13	-9.54	47.52	68.20	-20.68
					35310.00	Peak	V	-	-	-54.73	7.91	-9.54	50.64	68.20	-17.56	

**Table 7-27. Radiated Measurements MIMO** 

FCC ID: A3LSMX820		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dogo 126 of 146				
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 126 of 146				



## 7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)

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

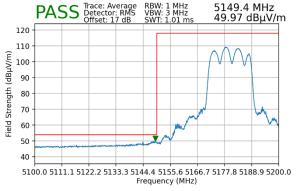
802.11a

6M

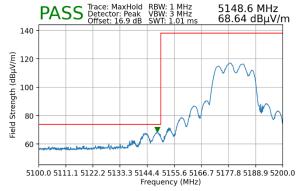
3 Meters

5180MHz

36



Plot 7-174. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 7-175. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

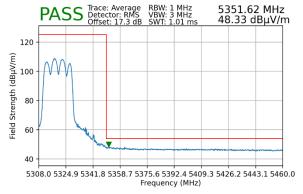
802.11a

6M

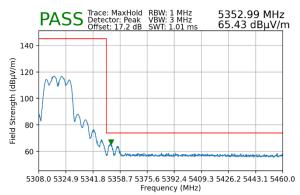
3 Meters

5320MHz

64



Plot 7-176. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-177. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMX820		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 127 of 146	
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	Portable Tablet	Page 127 of 146	

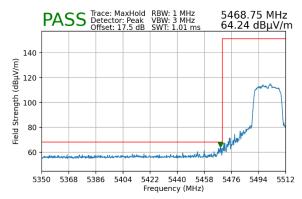


Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	PAS	5S [	race: Av etector offset: 1	erage : RMS 7.7 dB	RBW: 1 VBW: 3 SWT: 1	MHz		9.57 M 5 dBµ	
120 <u>Ê</u>									
/лідр) ч									
Field Strength (dBμV/m)									
<u>=</u> 60		No. and the state of the state							
40 · 53	350 53	68 53	86 54	04 54	122 54	40 545	58 5476	5494	5512

Plot 7-178. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

Frequency (MHz)



Plot 7-179. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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

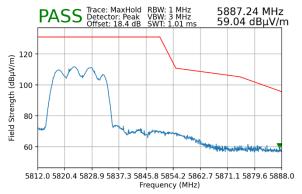
802.11a

6M

3 Meters

5825MHz

165



Plot 7-180. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMX820		Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Page 128 of 146		
1M2405140040-04-R1.A3L	6/5/2024 - 7/10/2024	6/5/2024 – 7/10/2024 Portable Tablet			