



Plot 7-47. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 6)



Plot 7-48. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 42 of 450
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 42 of 150



# 7.3 Output Power Measurement

#### **Test Overview and Limits**

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt per 15.247.

### **Test Procedure Used**

ANSI C63.10-2013 - Section 11.9.1.3 PKPM1 Peak Power Method

ANSI C63.10-2013 - Section 11.9.2.3.2 Method AVGPM-G

ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

### **Test Settings**

### **Method PKPM1 (Peak Power Measurement)**

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

#### Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

# **Test Setup**

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



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

#### **Test Notes**

None.

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Test Report S/N:	Test Dates:	EUT Type:	Dogo 42 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 43 of 150



	2.4Gl	dz WIFI (20M	Hz 802.11b S	ISO ANT1)	Cambustad	Conducted
802.11b	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
<del>-</del>	0440					
<u> </u>	2412 2437	6	ł	15.59	30.00	-14.41 -14.72
$\sim$	2462	11	Average	15.28 15.46	30.00 30.00	-14.72
$\sim$	2467	12	/ Welage	8.23	30.00	-21.77
ω	2472	13	İ	2.23	30.00	-27.77
Ш	2412	1		18.23	30.00	-11.77
	2437	6	İ	17.85	30.00	-12.15
Ш	2462	11	Peak	18.03	30.00	-11.97
	2467	12	İ	11.04	30.00	-18.96
	2472	13	İ	5.11	30.00	-24.89
			Hz 802.11g S			
802.11g	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
_	2412	1		16.66	30.00	-13.34
۸i	2437	6	İ	16.15	30.00	-13.85
$\sim$	2462	11	Average	16.43	30.00	-13.57
$\simeq$	2467	12	, worago	8.19	30.00	-21.81
	2472	13	İ	2.24	30.00	-27.76
Щ	2412	1		23.89	30.00	-6.11
Щ	2437	6	Ť	23.72	30.00	-6.28
Ш	2462	11	Peak	23.18	30.00	-6.82
	2467	12	1	15.34	30.00	-14.66
	2472	13	Ī	10.78	30.00	-19.22
			Hz 802.11n S			
1n	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
802.1	2412	1		16.56	30.00	-13.44
۸i	2437	6	İ	16.42	30.00	-13.58
$\sim$	2462	11	Average	16.41	30.00	-13.59
$\widetilde{\mathbf{x}}$	2467	12	ĺ	8.24	30.00	-21.76
· · · ·	2472	13	İ	2.23	30.00	-27.77
	2412	1		23.84	30.00	-6.16
Щ	2437	6	İ	23.82	30.00	-6.18
Ш	2462	11	Peak	23.05	30.00	-6.95
<u>—</u>	2467	12		16.18	30.00	-13.82
	2472	13	Î	10.54	30.00	-19.46
	2.4GH	z WIFI (20Mi	Hz 802.11ac S	SISO ANT1)	Conducted	Conducted
ac	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Power Limit [dBm]	Power Margin [dB]
<u>~</u>	2412	1		15.47	30.00	-14.53
· ·			l.			
	2437	6				
2	2437 2462	6 11	Average	15.38	30.00	-14.62
02.	2462	11	Average	15.38 15.35	30.00 30.00	-14.62 -14.65
802.11ac	2462 2467	11 12	Average	15.38 15.35 8.23	30.00 30.00 30.00	-14.62 -14.65 -21.77
E 802.	2462 2467 2472	11 12 13	Average	15.38 15.35 8.23 2.11	30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89
	2462 2467 2472 2412	11 12 13 1	Average	15.38 15.35 8.23 2.11 23.83	30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17
Ш	2462 2467 2472	11 12 13	Average Peak	15.38 15.35 8.23 2.11	30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32
Ш	2462 2467 2472 2412 2437 2462	11 12 13 1 6 11		15.38 15.35 8.23 2.11 23.83 23.68	30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52
Ш	2462 2467 2472 2412 2437 2462 2467	11 12 13 1 6 11		15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79
Ш	2462 2467 2472 2412 2437 2462 2467 2472	11 12 13 1 6 11 12 13	Peak	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82
Ш	2462 2467 2472 2412 2437 2462 2467 2472	11 12 13 1 6 11 12 13		15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79
	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH	11 12 13 1 6 11 12 13 z WFI (20MF	Peak Hz 802.11ax S	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82 Conducted Power Margin [dB]
.11ax   IEEE	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH	11 12 13 1 6 11 12 13 z WFI (20MI	Peak Hz 802.11ax S	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49
.11ax   IEEE	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437	11 12 13 1 6 11 12 13 z WFI (20M) Channel	Peak  Hz 802.11ax S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37
.11ax   IEEE	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462	11 12 13 1 6 11 12 13 2 WFI (20M) Channel 1 6 11	Peak Hz 802.11ax S	15.38 15.35 15.35 2.11 23.83 23.68 22.48 16.21 10.18 8ISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39
.11ax   IEEE	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467	11 12 13 1 6 11 12 13 2 WFI (20M) Channel 1 6 11 12	Peak  Hz 802.11ax S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52
802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472	11 12 13 1 6 11 12 13 2 WFI (20M) Channel 1 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  Hz 802.11ax S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46
.11ax   IEEE	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412	11 12 13 1 6 11 12 13 2 MFI (20MH  Channel  1 6 11 12 13 1	Peak  Hz 802.11ax S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39
EE 802.11ax   IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437	11 12 13 1 6 11 12 13 2 WFI (20M) Channel  1 6 11 12 13 1 16	Peak  Hz 802.11ax S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25
E 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462	11 12 13 1 6 11 12 13 2 WFI (20MF  Channel  1 6 11 12 13 1 6 11 11 12 13 1 6 11	Peak  Hz 802.11ax S  Detector  Average	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73
EE 802.11ax   IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467	11 12 13 1 6 11 12 13 2 WFI (20M) Channel  1 6 11 12 13 1 16	Peak  Hz 802.11ax S  Detector  Average	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85
EE 802.11ax   IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	11 12 13 1 6 11 12 13 2 WFI (20M) Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1	Peak  Detector  Average	15.38 15.35 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.15	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44
IEEE 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	11 12 13 1 6 11 12 13 2 WFI (20M) Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1	Peak  Hz 802.11ax S  Detector  Average	15.38 15.35 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 SISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.15	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted
IEEE 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2417 2468 Freq. [MHz]	11 12 13 1 6 11 12 13 2 WFI (20MH  Channel  1 6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 2 WFI (20MH	Peak  Detector  Average  Peak	15.38 15.35 15.35 2.11 23.83 23.68 22.48 16.21 10.18 16.21 10.18 16.61 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.56 10.	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB]
IEEE 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467	11 12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 6 11 12 13 13 1 6 11 12 13 2 WFI (20M)  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  Detector  Average  Peak	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 ISSO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.56 ISSO ANT1) Conducted Power [dBm] 16.51	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.52
IEEE 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GH	11 12 13 1 6 11 12 13 2 13 2 WFI (20MH  Channel  1 6 11 12 13 1 6 11 12 13 2 13 2 WFI (20MH  Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1	Peak  Detector  Average  Peak  Lz 802.11be S  Detector	15.38 15.35 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 ISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 23.75 23.27 16.15 10.56 ISO ANT1) Conducted Power [dBm] 16.65	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.39 -13.40 -13.40 -13.40
IEEE 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2468	11 12 13 1 6 11 12 13 2 WFI (20M) Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 16 6 11 11 12 13 1 10 10 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 11 12 13 11 11 11 12 13 11 11 11 11 11 11 11 11 11 11 11 11	Peak  Detector  Average  Peak	15.38 15.35 15.35 15.35 15.35 15.35 23.83 23.68 22.48 16.21 10.18 ISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 10.56 ISO ANT1) Conducted Power [dBm] 16.65 16.65 16.65 16.61 23.75	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.52 -13.46 -13.38
802.11be IEEE 802.11ax IEEE SU SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472 2472 2472 2472 247	11 12 13 1 6 11 12 13 2 13 2 WFI (20MH  Channel  1 6 11 12 13 1 6 11 12 13 2 13 2 WFI (20MH  Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1	Peak  Detector  Average  Peak  Lz 802.11be S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 10.18 10.18 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.56 10.5	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.52 -13.46 -13.38 -21.61
802.11be IEEE 802.11ax IEEE SU SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437	11 12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 6 11 12 13 2 WFI (20M)  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  Detector  Average  Peak  Lz 802.11be S  Detector	15.38 15.35 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 10.18 10.19 16.51 16.63 16.61 23.75 23.27 16.15 10.56 10	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.52 -13.46 -13.38 -13.38 -13.46 -13.38 -21.61 -27.72
IEEE 802.11ax IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472 2472 2472 2472 247	11 12 13 1 6 11 12 13 1 12 13 2 WFI (20Mi  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20Mi  Channel  1 12 13 1 1 6 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 14 14 15 16 11 12 13 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Peak  Detector  Average  Peak  Lz 802.11be S  Detector	15.38 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 10.18 10.18 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.56 10.5	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.52 -13.46 -13.38 -21.61
E 802.11be   IEEE 802.11ax   IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2.4GH	11 12 13 1 6 11 12 13 2 MFI (20Mi  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20Mi  Channel  1 10 12 13 1 12 13 1 12 13 1 12 13 1 12 13 1 12 13 1 12 13 1 14 14 15 16 11 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Peak  Detector  Average  Peak  Lz 802.11be S  Detector	15.38 15.35 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 10.18 ISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 10.56 ISO ANT1) Conducted Power [dBm] 16.48 16.54 16.69 16.48 16.54 16.62 8.39 2.28 23.68	30.00 30.00	-14.62 -14.65 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] [dB] -13.52 -13.46 -13.38 -21.61 -27.72 -6.32
EE 802.11be   IEEE 802.11ax   IEEE SU	2462 2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2413	11 12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20M)  Channel	Peak  Detector  Average  Peak  Lz 802.11be S  Detector  Average	15.38 15.35 15.35 8.23 2.11 23.83 23.68 22.48 16.21 10.18 ISO ANT1) Conducted Power [dBm] 16.51 16.63 16.61 8.48 2.54 23.61 23.75 23.27 16.15 10.56 ISO ANT1) Conducted Power [dBm] 16.48 16.64 16.62 8.39 2.28 23.68 23.68	30.00 30.00	-14.62 -14.62 -14.63 -21.77 -27.89 -6.17 -6.32 -7.52 -13.79 -19.82  Conducted Power Margin [dB] -13.49 -13.37 -13.39 -21.52 -27.46 -6.39 -6.25 -6.73 -13.85 -19.44  Conducted Power Margin [dB] -13.52 -13.46 -13.38 -21.61 -27.72 -6.32 -6.32

Table 7-5. Conducted Output Power Measurements SISO ANT1

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Fage 44 01 150



	2.4Gl	lz WIFI (20M	Hz 802.11b S	ISO ANT2)	011	01
802.11b	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
<del>-</del>	0440	4				= =
i:	2412 2437	6	•	15.41	30.00 30.00	-14.59 -14.38
$\sim$	2462	11	Average	15.62 15.54	30.00	-14.46
$\sim$	2467	12	Average	8.46	30.00	-21.54
ω,	2472	13	İ	2.70	30.00	-27.30
Ш	2412	1		18.16	30.00	-11.84
	2437	6	Ì	17.85	30.00	-12.15
Ш	2462	11	Peak	18.13	30.00	-11.87
	2467	12		10.98	30.00	-19.02
	2472	13	İ	5.26	30.00	-24.74
		Iz WIFI (20M	Hz 802.11g S			011
802.11g	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
<del></del>	2412	1		16.28	30.00	-13.72
۸i	2437	6	Ì	16.31	30.00	-13.69
	2462	11	Average	16.03	30.00	-13.97
$\simeq$	2467	12		8.49	30.00	-21.51
	2472	13	Ī	2.76	30.00	-27.24
Щ	2412	1		24.22	30.00	-5.78
Ш	2437	6	]	24.08	30.00	-5.92
ш	2462	11	Peak	23.06	30.00	-6.94
	2467	12		15.85	30.00	-14.15
	2472	13	Î	11.24	30.00	-18.76
			Hz 802.11n S			
<del>_</del>	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
802.1	2412	1		16.23	30.00	-13.77
Qi _	2437	6		16.15	30.00	-13.85
$\sim$	2462	11	Average	16.04	30.00	-13.96
$\simeq$	2467	12	İ	8.46	30.00	-21.54
	2472	13	Ī	2.97	30.00	-27.03
	2412	1		24.04	30.00	-5.96
Щ	2437	6	Ī	24.05	30.00	-5.95
Ш	2462	11	Peak	23.21	30.00	-6.79
_	2467	12		15.91	30.00	-14.09
	2472	13	Î	11.27	30.00	-18.73
	2.4GH	z WIFI (20Mi	Hz 802.11ac S	ISO ANT2)	Conducted	Conducted
ac	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Power Limit [dBm]	Power Margin [dB]
<u>~</u>	2412	1		15.22	30.00	-14.78
``.	2437	6	Ì	15.18	30.00	-14.82
$\sim$						
	2462	11	Average			
02	2462 2467	11 12	Average	15.03	30.00	-14.97
802.11ac	2467	12	Average	15.03 8.48	30.00 30.00	-14.97 -21.52
E 802	2467 2472	12 13	Average	15.03 8.48 2.92	30.00 30.00 30.00	-14.97 -21.52 -27.08
EE 802	2467 2472 2412	12 13 1	Average	15.03 8.48 2.92 23.48	30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52
Ш	2467 2472	12 13	Average Peak	15.03 8.48 2.92	30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15
Ш	2467 2472 2412 2437 2462	12 13 1 6 11		15.03 8.48 2.92 23.48 23.85 22.24	30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76
Ш	2467 2472 2412 2437	12 13 1 6		15.03 8.48 2.92 23.48 23.85	30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11
Ш	2467 2472 2412 2437 2462 2467 2472	12 13 1 6 11 12	Peak	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68
Ш	2467 2472 2412 2437 2462 2467 2472	12 13 1 6 11 12		15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32	30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11
	2467 2472 2412 2437 2462 2467 2472 2.4GH	12 13 1 6 11 12 13 z WFI (20MI	Peak 1z 802.11ax S	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68 Conducted Power Margin [dB]
.11ax   IEEE	2467 2472 2412 2437 2462 2467 2472 2.4GH	12 13 1 6 11 12 13 z WFI (20MI	Peak 1z 802.11ax S	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68 Conducted Power Margin [dB] -13.96
.11ax   IEEE	2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437	12 13 1 6 11 12 13 z WFI (20MF	Peak  Hz 802.11ax S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2 Conducted Power [dBm] 16.04 16.42	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68 Conducted Power Margin [dB] -13.96 -13.58
.11ax   IEEE	2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462	12 13 1 6 11 12 13 z WFI (20MF Channel	Peak 1z 802.11ax S	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45
802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467	12 13 1 6 11 12 13 z WFI (20MF Channel 1 6 11	Peak  Hz 802.11ax S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32
802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GP Freq. [MHz] 2412 2437 2462 2467 2472	12 13 1 6 11 12 13 <b>z WFI (20MH</b> <b>Channel</b> 1 6 11 12 13	Peak  Hz 802.11ax S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68 Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03
.11ax   EEE	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412	12 13 1 6 11 12 13 <b>z WFI (20MI</b> <b>Channel</b> 1 6 11 12 13	Peak  Hz 802.11ax S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99
EE 802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437	12 13 1 6 11 12 13 <b>z WFI (20MF</b> <b>Channel</b> 1 6 11 12 13 14	Peak  Hz 802.11ax S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.58 -13.45 -21.32 -27.03 -5.99 -5.82
E802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412	12 13 1 6 11 12 13 <b>z WFI (20MH</b> <b>Channel</b> 1 6 1 11 12 13 13	Peak  Hz 802.11ax S  Detector  Average	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59	30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41
EE 802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2462 2467	12 13 1 6 11 12 13 <b>z WFI (20M!</b> <b>Channel</b> 1 6 11 12 13 1 1 6	Peak  Hz 802.11ax S  Detector  Average	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84
EE 802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2437 2462 2467 2472	12 13 1 6 11 12 13 <b>z WFI (20MF</b> <b>Channel</b> 1 6 11 12 13 1 6 11 12 13	Peak  Detector  Average	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2437 2462 2467 2472	12 13 1 6 11 12 13 <b>z WFI (20MF</b> <b>Channel</b> 1 6 11 12 13 1 6 11 12 13	Peak  Hz 802.11ax S  Detector  Average	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2467 2472 2467 2472 2467 2472	12 13 1 6 11 12 13 <b>z WFI (20MH</b> Channel  1 6 11 12 13 1 1 12 13 1 12 13 2 WFI (20MH	Peak  Detector  Average  Peak	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit EdBm]	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB]
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467	12 13 1 6 11 12 13 z WFI (20M) Channel 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 Channel 11 12 13	Peak  Detector  Average  Peak	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.16 11.53 ISO ANT2) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.95
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2467 2472 2467 2472 2467 2472	12 13 1 6 11 12 13 <b>z WFI (20MH</b> Channel  1 6 11 12 13 1 1 12 13 1 12 13 2 WFI (20MH	Peak  Detector  Average  Peak	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] Conducted Power Limit [dBm]	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB]
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2468 Freq. [MHz]	12 13 1 6 11 12 13 z WFI (20M)  Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 6	Peak  Detector  Average  Peak  tz 802.11be S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.05 16.05	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 40.00 40.	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.96 -13.62
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2468 Freq. [MHz]  Freq. [MHz] 2437 2462	12 13 1 6 11 12 13 z WFI (20MF  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20MF  Channel  Channel  1 6 11 11 12 13 11 6 11 11 12 13 11 11 11 12 13 11 11 11 11 12 13 11 11 11 11 11 11 11 11 11 11 11 11	Peak  Detector  Average  Peak  tz 802.11be S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.06 11.53 ISO ANT2) Conducted Power [dBm] 16.05	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.95 -13.62 -13.71 -21.34
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467	12 13 1 6 11 12 13 z WFI (20M) Channel 1 6 11 12 13 z WFI (20M) Channel 1 6 11 12 13 z WFI (20M) Channel 1 1 12 13 1 1 12 13 z WFI (20M) Channel 1 1 12 13 z WFI (20M) Lipidad (20M) Lip	Peak  Detector  Average  Peak  tz 802.11be S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.66 11.53 ISO ANT2) Conducted Power [dBm] 16.06 16.38 16.29 8.66	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.95 -13.62 -13.71
EE 802.11ax   IEEE 802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 24472 24484  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437	12 13 16 11 12 13 2 WFI (20Mi  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20Mi  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20Mi  11 12 13 2 WFI (20Mi  11 12 13 2 WFI (20Mi  11 12 13 2 WFI (20Mi  11 14 15 16 11 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Peak  Detector  Average  Peak  tz 802.11be S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.05 16.38 16.29 16.38 16.29	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.95 -13.62 -13.71 -21.34 -27.16
IEEE 802.11ax IEEE SU	2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2457 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437	12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 6 11 12 13 1 6 11 12 13 2 WFI (20M)  Channel  1 1 12 13 1 1 1 12 13 1 1 1 12 13 1 1 1 1	Peak  Detector  Average  Peak  tz 802.11be S  Detector	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.06 11.53 ISO ANT2 Conducted Power [dBm] 16.05 16.38 16.29 8.66 2.284 24.03	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.96 -13.71 -21.384 -18.47
EE 802.11ax   IEEE 802.11ax   IEEE SU	2467 2472 2412 2437 2462 2467 2472 2.4GH  Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2412 2437 2462 2467	12 13 1 6 11 12 13 z WFI (20M) Channel  1 6 11 12 13 1 16 11 12 13 z WFI (20M) Channel  1 6 11 12 13 1 11 12 13 11 12 13 11 12 13 11 12 13 11 16 6 11 16 6 11 16	Peak  Detector  Average  Peak  Lz 802.11be S  Detector  Average	15.03 8.48 2.92 23.48 23.85 22.24 15.89 11.32 ISO ANT2) Conducted Power [dBm] 16.04 16.42 16.55 8.68 2.97 24.01 24.18 23.59 16.16 11.53 ISO ANT2) Conducted Power [dBm] 16.05 8.68 2.97 24.01 24.18 23.59 16.16 2.84 24.03 2.84	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-14.97 -21.52 -27.08 -6.52 -6.15 -7.76 -14.11 -18.68  Conducted Power Margin [dB] -13.96 -13.58 -13.45 -21.32 -27.03 -5.99 -5.82 -6.41 -13.84 -18.47  Conducted Power Margin [dB] -13.96 -13.62 -13.71 -21.34 -27.16 -5.97 -5.87

Table 7-6. Conducted Output Power Measurements SISO ANT2

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 45 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Fage 45 01 150



			2 4GHz WIF	1 (20MHz 802.11	h MIMO)			
Q	Freq [MHz]	Channel	Detector		onducted Power [dl	Bm]	Conducted Power Limit	Conducted Power Margin
	rieq[winz]	Gilannei	Detector	ANT1	ANT2	мімо	[dBm]	[dB]
802.11	2412	1		15.61	15.24	18.44	30.00	-11.56
۸i	2437	6	1 1	15.58	15.36	18.48	30.00	-11.52
$\sim$	2462	11	Average	15.52	15.38	18.46	30.00	-11.54
36	2467	12	1	8.24	8.51	11.39	30.00	-18.61
$\sim$	2472	13	1 [	2.15	2.98	5.60	30.00	-24.40
Щ	2412	1		18.71	18.01	21.38	30.00	-8.62
<u> </u>	2437	6	1 [	18.11	17.75	20.94	30.00	-9.06
Ш	2462	11	Peak	18.01	17.98	21.01	30.00	-8.99
_	2467	12	1 [	11.15	11.19	14.18	30.00	-15.82
	2472	13	1 1	5.09	5.71	8.42	30.00	-21.58
			2.4GHz WIF	I (20MHz 802.11	(OMIM p			
_						David	Conducted	Conducted
D	Freq [MHz]	Channel	Detector	C	onducted Power [dl	smj	Power Limit	Power Margin
~				ANT1	ANT2	MIMO	[dBm]	[dB]
802.1	2412	1	] [	16.64	16.39	19.53	30.00	-10.47
Νİ	2437	6	] [	16.52	16.32	19.43	30.00	-10.57
$\ddot{\circ}$	2462	11	Average	16.51	16.14	19.34	30.00	-10.66
$\widetilde{\sigma}$	2467	12	] [	8.15	8.41	11.29	30.00	-18.71
111	2472	13		2.08	2.95	5.55	30.00	-24.45
Ĥ	2412	1		23.82	24.13	26.99	30.00	-3.01
出	2437	6	j l	23.57	24.05	26.83	30.00	-3.17
<u> </u>	2462	11	Peak	23.16	23.11	26.15	30.00	-3.85
	2467	12	] [	15.24	15.83	18.56	30.00	-11.44
	2472	13	1 h	10.23	11.27	13.79	30.00	-16.21
			2.4GHz WIF	FI (20MHz 802.11)		•		
							Conducted	Conducted
⊑	Freq [MHz]	Channel	Detector	Co	onducted Power [dl	Bm]	Power Limit	Power Margin
802.11				ANT1	ANT2	MIMO	[dBm]	[dB]
~	2412	1		16.58	16.31	19.46	30.00	-10.54
۸i	2437	6	1	16.45	16.22	19.35	30.00	-10.65
	2462	11	Average	16.41	16.06	19.25	30.00	-10.75
$\simeq$	2467	12	/ Werage	8.89	8.47	11.70	30.00	-18.30
	2472	13	1 -	1.94	2.65	5.32	30.00	-24.68
Ш	2412	1		23.68	23.95	26.83	30.00	-3.17
Ш			1 1					
Ш	2437	6	Dools	23.56	23.96	26.77	30.00	-3.23
=	2462	11	Peak	23.08	23.10	26.10	30.00	-3.90
	2467	12		15.88	15.71	18.81	30.00	-11.19
	2472	13		10.45	10.80	13.64	30.00	-16.36
			2.4GHz WIF	I (20MHz 802.11a	ic MIMO)		Conducted	Conducted
802.11ac			5.44	Co	onducted Power [dl	Bm]	Power Limit	Power Margin
$\sigma$	Freq [MHz]	Channel	Detector	A 1.177.4	41170	1 11110	[dBm]	[dB]
_	0.110			ANT1	ANT2	MIMO		
<u> </u>	2412	1	<b>I</b> ⊦	15.47	15.51	18.50	30.00	-11.50
∼i	2437	6	<b>!</b> . ⊦	15.39	15.17	18.29	30.00	-11.71
$\sim$	2462	11	Average	15.57	15.03	18.32	30.00	-11.68
$\widetilde{\mathfrak{S}}$	2467	12	<b>∤</b> ⊦	8.10	8.30	11.21	30.00	-18.79
	2472	13		2.02	2.93	5.51	30.00	-24.49
H	2412	1		23.14	23.32	26.24	30.00	-3.76
	2437	6	1 _ L	23.47	23.88	26.69	30.00	-3.31
Ш	2462	11	Peak	22.67	22.16	25.43	30.00	-4.57
	2467	12	į į	15.28	15.65			
		40				18.48	30.00	-11.52
	2472	13		10.04	11.23	18.48 13.69	30.00 30.00	-11.52 -16.31
	2472	13	2.4GHz WIF		11.23		30.00	-16.31
×				10.04 I (20MHz 802.11a	11.23 x MIMO)	13.69	30.00 Conducted	-16.31 Conducted
ax	Freq [MHz]	Channel	2.4GHz WIF	10.04 I (20MHz 802.11a Co	x MIMO) onducted Power [dl	13.69 Bm]	30.00  Conducted Power Limit	-16.31  Conducted Power Margin
1ax	Freq [MHz]			10.04 I (20MHz 802.11a	x MIMO) onducted Power [dl	13.69 Bm] MIMO	30.00  Conducted Power Limit [dBm]	-16.31 Conducted
~	Freq [MHz]	Channel 1		10.04 I (20MHz 802.11a Cc ANT1 16.16	x MIMO) onducted Power [dl ANT2 15.94	13.69  Bm]  MIMO  19.06	30.00  Conducted Power Limit [dBm]  30.00	-16.31  Conducted Power Margin [dB] -10.94
$\overline{}$	Freq [MHz]	Channel	Detector	10.04 I (20MHz 802.11a Co ANT1	x MIMO) onducted Power [dl	13.69 Bm] MIMO	30.00  Conducted Power Limit [dBm]	-16.31  Conducted Power Margin [dB]
~	Freq [MHz]	Channel 1		10.04 I (20MHz 802.11a Cc ANT1 16.16	x MIMO) onducted Power [dl ANT2 15.94	13.69  Bm]  MIMO  19.06	30.00  Conducted Power Limit [dBm]  30.00	-16.31  Conducted Power Margin [dB] -10.94
$\overline{}$	Freq [MHz]  2412 2437	Channel  1 6	Detector	10.04 I (20MHz 802.11a Cc ANT1 16.16 16.63	11.23 x MIMO) producted Power [dl ANT2 15.94 16.67	13.69  Bm]  MIMO  19.06  19.66	30.00  Conducted Power Limit [dBm]  30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34
$\overline{}$	Freq [MHz]  2412 2437 2462	Channel  1 6 11	Detector	10.04 I (20MHz 802.11a Cc ANT1 16.16 16.63 16.51	11.23 x MIMO) Inducted Power [dl ANT2 15.94 16.67 16.25	13.69  Bm]  MIMO 19.06 19.66 19.39	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61
~	Freq [MHz]  2412 2437 2462 2467	Channel  1 6 11 12	Detector	10.04 1 (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63	13.69  MIMO 19.06 19.66 19.39 11.52	30.00  Conducted Power Limit [dBm]  30.00  30.00  30.00  30.00	-16.31  Conducted Power Margin [dB]  -10.94  -10.34  -10.61  -18.48
2.11 J	Freq [MHz]  2412 2437 2462 2467 2472	Channel  1 6 11 12 13	Detector	10.04 1 (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23	11.23 x MIMO) onducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91	13.69    MIMO   19.06   19.66   19.39   11.52   5.59	30.00  Conducted Power Limit [dBm]  30.00  30.00  30.00  30.00  30.00  30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41
$\overline{}$	Freq [MHz]  2412 2437 2462 2467 2472 2412	Channel  1 6 11 12 13 1	Detector	10.04 1 (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86	11.23 x MIMO) onducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02	13.69    MIMO   19.06   19.66   19.39   11.52   5.59   26.95	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41 -3.05
$\overline{}$	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 6	<b>Detector</b> Average	10.04 (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86 23.71	11.23 x MIMO) inducted Power [di ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.92	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08
$\overline{}$	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462	Channel  1 6 11 12 13 1 6 11	<b>Detector</b> Average	10.04 I (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86 23.71 23.44	11.23 x MIMO) inducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36	13.69  MIMO 19.06 19.39 11.52 5.59 26.95 26.92 26.41	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59
$\overline{}$	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467	Channel  1 6 11 12 13 1 6 11 12	Average Peak	10.04  (20MHz 802.11a  Cc  ANT1  16.16  16.63  16.51  8.38  2.23  23.86  23.71  23.44  15.64  10.48	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.95 26.95 26.91 18.91	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467	Channel  1 6 11 12 13 1 6 11 12	Average Peak	10.04  (20MHz 802.11a  Cc  ANT1  16.16  16.63  16.51  8.38  2.23  23.86  23.71  23.44  15.64  10.48	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 te MIMO)	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.95 26.91 18.91 13.83	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467	Channel  1 6 11 12 13 1 6 11 12	Average Peak	10.04  (20MHz 802.11a  Cc  ANT1  16.16  16.63  16.51  8.38  2.23  23.86  23.71  23.44  15.64  10.48	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.95 26.91 18.91 13.83	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 1 13 1 1 13 1 1 13 1 1 12 13	Average Peak  2.4GHz WF	10.04  (20MHz 802.11a  Cc  ANT1  16.16  16.63  16.51  8.38  2.23  23.86  23.71  23.44  15.64  10.48	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 te MIMO)	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.95 26.91 18.91 13.83	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 1 1 13 1 1 13 1 1 13 1 1 12 13	Average Peak  2.4GHz WF	10.04  (20MHz 802.11a  Cc  ANT1  16.16  16.63  16.51  8.38  2.23  23.86  23.71  23.44  15.64  10.48  (20MHz 802.11b  Cc  ANT1	11.23 x MIMO) onducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 the MIMO) onducted Power [dl ANT2	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.92 26.41 18.91 13.83	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB]
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 1 Channel	Average Peak  2.4GHz WF	10.04 1 (20MHz 802.11a	11.23 x MIMO) nducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 e MIMO) nducted Power [dl ANT2 15.93	13.69	30.00  Conducted Power Limit [dBm]  30.00  30.00  30.00  30.00  30.00  30.00  30.00  Conducted Power Limit [dBm]  30.00  30.00  30.00  30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13  Channel	Peak  2.4GHz WIF  Detector	10.04  (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86 23.71 23.44 15.64 10.48  (20MHz 802.11b Cc ANT1 16.13 16.54	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 e MIMO) anducted Power [dl ANT2 15.93 16.41	13.69    MIMO   19.06   19.66   19.39   11.52   5.59   26.95   26.95   26.41   18.91   13.83	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 Freq [MHz]  2412 2437	Channel  1 6 11 12 13 1 6 11 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Average Peak  2.4GHz WF	10.04  (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86 23.71 23.44 15.64 10.48 1(20MHz 802.11b Cc ANT1 16.13 16.54 16.54 16.58	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 e MIMO) anducted Power [dl ANT2 15.93 16.41 16.29	13.69  MIMO 19.06 19.06 19.66 19.39 11.52 5.59 26.95 26.95 26.41 18.91 13.83  Bm]  MIMO 19.04 19.49	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51 -10.55
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  2412 2437 2462 2467	Channel  1 6 11 12 13 1 6 11 12 13 Channel 1 6 11 12 13	Peak  2.4GHz WIF  Detector	10.04  (20MHz 802.11a  Cc  ANT1  16.16  16.63  16.51  8.38  2.23  23.86  23.71  23.44  15.64  10.48  (20MHz 802.11b  Cc  ANT1  16.13  16.54  16.58  8.31	11.23 x MIMO) mducted Power [dl  ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 the MIMO) mducted Power [dl  ANT2 15.93 16.41 16.29 8.58	13.69	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51 -10.55 -18.54
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  2412 2437 2462 2467 2472	Channel  1 6 11 12 13 1 6 11 12 13  Channel  1 6 11 12 13	Peak  2.4GHz WIF  Detector	10.04  (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86 23.71 23.44 15.64 10.48 1(20MHz 802.11b Cc ANT1 16.13 16.54 16.54 16.58 8.31 2.06	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 11.13 and MIMO) anducted Power [dl ANT2 15.93 16.41 16.29 16.93 16.41 16.29 8.58 2.98	13.69	30.00  Conducted Power Limit [dBm] 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51 -10.55 -18.54 -24.45
IEEE 802.11 SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 Freq [MHz] 2412 2437 2462 2467 2472 2412	Channel  1 6 11 12 13 1 6 11 12 13 1 6 11 12 13 1 16 11 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector	10.04  (20MHz 802.11a Cc ANT1 16.16 16.63 16.51 8.38 2.23 23.86 23.71 23.44 15.64 10.48 (20MHz 802.11b Cc ANT1 16.13 16.54 16.58 8.31 2.06 23.89	11.23 x MIMO) mducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 e MIMO) mducted Power [dl ANT2 15.93 16.41 16.29 8.58 2.98	13.69  MIMO 19.06 19.66 19.39 11.52 5.59 26.95 26.95 26.91 13.83  MIMO 19.04 19.49 19.45 11.46 5.55 26.98	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51 -10.55 -18.54 -24.45 -3.02
:.11be   IEEE 802.11	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 1 1 6 11 16 6 11 12 13 1 16 6	Peak  2.4GHz WF  Detector  Average	10.04  (20MHz 802.11a	11.23 x MIMO)  nducted Power [dl 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 e MIMO)  nducted Power [dl 23.36 16.14 11.13 e MIMO]  nducted Power [dl 45.93 16.41 16.29 8.58 2.98 24.04 24.04	13.69  MIMO 19.06 19.06 19.06 19.39 11.52 5.59 26.95 26.95 26.41 18.91 13.83  Bm]  MIMO 19.49 19.45 11.46 5.55 26.98 26.92	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.95 -10.95 -18.54 -24.45 -3.02 -3.08
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 6 11 12 13  Channel  1 6 11 12 13  Channel  1 6 11 12 13 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 14 15 16 11 11 11 11 12 13 11 11 11 12 13 11 11 11 12 13 11 11 11 12 13 14 15 16 11 11 11 11 11 12 13 14 15 16 11 11 11 11 11 11 11 11 11 11 11 11	Peak  2.4GHz WIF  Detector	10.04  (20MHz 802.11a	11.23 x MIMO) anducted Power [dl ANT2 15.94 16.67 16.25 8.63 2.91 24.02 24.11 11.13 a MIMO) anducted Power [dl ANT2 15.93 16.41 16.29 8.58 2.98 24.04 24.04 23.45	13.69	30.00  Conducted Power Limit [dBm] 30.00	-16.31  Conducted Power Margin [dB] -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51 -10.55 -18.54 -24.45 -3.02 -3.08 -3.60
IEEE 802.11 SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 1 1 6 11 16 6 11 12 13 1 16 6	Peak  2.4GHz WF  Detector  Average	10.04  (20MHz 802.11a	11.23 x MIMO)  nducted Power [dl 15.94 16.67 16.25 8.63 2.91 24.02 24.11 23.36 16.14 11.13 e MIMO)  nducted Power [dl 23.36 16.14 11.13 e MIMO]  nducted Power [dl 45.93 16.41 16.29 8.58 2.98 24.04 24.04	13.69  MIMO 19.06 19.06 19.06 19.39 11.52 5.59 26.95 26.95 26.41 18.91 13.83  Bm]  MIMO 19.49 19.45 11.46 5.55 26.98 26.92	30.00  Conducted Power Limit [dBm]  30.00 30.00 30.00 30.00 30.00 30.00 30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-16.31  Conducted Power Margin [dB]  -10.94 -10.34 -10.61 -18.48 -24.41 -3.05 -3.08 -3.59 -11.09 -16.17  Conducted Power Margin [dB] -10.96 -10.51 -10.55 -18.54 -24.45 -3.02 -3.08

**Table 7-7. Conducted Output Power Measurements MIMO** 

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 46 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 46 of 150



#### Note:

Per ANSI C63.10-2013 Section 14.2, the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission 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 2412MHz the average conducted output power was measured to be 15.61 dBm for Antenna 1 and 15.24 dBm for Antenna 2.

(15.61dBm + 15.24 dBm) = (36.39 mW + 33.42 mW) = 69.81 mW = 18.44 dBm

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 47 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Fage 47 01 150



# **Power Spectral Density**

### **Test Overview and Limit**

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates are investigated and the worst-case configuration results are reported in this section.

The maximum permissible power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### **Test Procedure Used**

ANSI C63.10-2013 - Section 11.10.2 Method PKPSD ANSI C63.10-2013 - Section 14.3.1 Measure-and-Sum Technique

### **Test Settings**

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 10kHz
- 4. VBW = 1MHz
- Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- Trace was allowed to stabilize

### **Test Setup**

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



Figure 7-3. Test Instrument & Measurement Setup

#### **Test Notes**

None.

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 48 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 46 01 150

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# **Power Spectral Density Measurements**

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-2.98	8.00	-10.98	Pass
2437	6	b	1	-4.55	8.00	-12.55	Pass
2462	11	b	1	-3.63	8.00	-11.63	Pass
2412	1	g	6	-4.64	8.00	-12.64	Pass
2437	6	g	6	-5.13	8.00	-13.13	Pass
2462	11	g	6	-5.60	8.00	-13.60	Pass
2412	1	n	6.5/7.2 (MCS0)	-3.96	8.00	-11.96	Pass
2437	6	n	6.5/7.2 (MCS0)	-2.82	8.00	-10.82	Pass
2462	11	n	6.5/7.2 (MCS0)	-3.86	8.00	-11.86	Pass
2412	1	be	6.5/7.2 (MCS0)	-5.28	8.00	-13.28	Pass
2437	6	be	6.5/7.2 (MCS0)	-3.93	8.00	-11.93	Pass
2462	11	be	6.5/7.2 (MCS0)	-4.98	8.00	-12.98	Pass

Table 7-8. Conducted Power Spectral Density Measurements SISO ANT1

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 49 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	raye 49 01 150



Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-3.06	8.00	-11.06	Pass
2437	6	b	1	-3.12	8.00	-11.12	Pass
2462	11	b	1	-3.63	8.00	-11.63	Pass
2412	1	g	6	-4.88	8.00	-12.88	Pass
2437	6	g	6	-3.61	8.00	-11.61	Pass
2462	11	g	6	-4.11	8.00	-12.11	Pass
2412	1	n	6.5/7.2 (MCS0)	-4.43	8.00	-12.43	Pass
2437	6	n	6.5/7.2 (MCS0)	-3.96	8.00	-11.96	Pass
2462	11	n	6.5/7.2 (MCS0)	-4.02	8.00	-12.02	Pass
2412	1	be	6.5/7.2 (MCS0)	-4.95	8.00	-12.95	Pass
2437	6	be	6.5/7.2 (MCS0)	-3.56	8.00	-11.56	Pass
2462	11	be	6.5/7.2 (MCS0)	-4.53	8.00	-12.53	Pass

Table 7-9. Conducted Power Spectral Density Measurements SISO ANT2

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 50 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 50 of 150



Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-3.30	-4.80	-0.98	8.00	-8.98	Pass
2437	6	b	1	-3.99	-4.94	-1.43	8.00	-9.43	Pass
2462	11	b	1	-4.16	-4.38	-1.26	8.00	-9.26	Pass
2412	1	g	6	-4.57	-4.65	-1.60	8.00	-9.60	Pass
2437	6	g	6	-4.08	-4.76	-1.40	8.00	-9.40	Pass
2462	11	g	6	-5.43	-4.84	-2.11	8.00	-10.11	Pass
2412	1	n	6.5/7.2 (MCS0)	-5.33	-4.13	-1.68	8.00	-9.68	Pass
2437	6	n	6.5/7.2 (MCS0)	-4.14	-3.12	-0.59	8.00	-8.59	Pass
2462	11	n	6.5/7.2 (MCS0)	-4.34	-3.19	-0.72	8.00	-8.72	Pass
2412	1	be	6.5/7.2 (MCS0)	-4.97	-4.44	-1.69	8.00	-9.69	Pass
2437	6	be	6.5/7.2 (MCS0)	-4.58	-3.83	-1.18	8.00	-9.18	Pass
2462	11	be	6.5/7.2 (MCS0)	-4.60	-4.78	-1.68	8.00	-9.68	Pass

Table 7-10. Conducted Power Spectral Density Measurements MIMO

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 51 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 51 of 150



# 7.4.1 SISO Antenna-1 Power Spectral Density Measurements



Plot 7-49. Power Spectral Density Plot SISO ANT1 (802.11b - Ch. 1)



Plot 7-50. Power Spectral Density Plot SISO ANT1 (802.11b - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags E2 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 52 of 150





Plot 7-51. Power Spectral Density Plot SISO ANT1 (802.11b - Ch. 11)



Plot 7-52. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags E2 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 53 of 150





Plot 7-53. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 6)



Plot 7-54. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo E4 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 54 of 150





Plot 7-55. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 1)



Plot 7-56. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo EE of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 55 of 150





Plot 7-57. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 11)



Plot 7-58. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 1)

FCC ID: A3LSMX920		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo EC of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 56 of 150





Plot 7-59. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 6)



Plot 7-60. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 57 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 57 of 150



# 7.4.2 SISO Antenna-2 Power Spectral Density Measurements



Plot 7-61. Power Spectral Density Plot SISO ANT2 (802.11b - Ch. 1)



Plot 7-62. Power Spectral Density Plot SISO ANT2 (802.11b - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 50 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 58 of 150





Plot 7-63. Power Spectral Density Plot SISO ANT2 (802.11b - Ch. 11)



Plot 7-64. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 50 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 59 of 150





Plot 7-65. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 6)



Plot 7-66. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 60 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 60 of 150





Plot 7-67. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 1)



Plot 7-68. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 61 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 61 of 150





Plot 7-69. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 11)



Plot 7-70. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 62 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 62 of 150





Plot 7-71. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 6)



Plot 7-72. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 62 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 63 of 150



# 7.4.3 MIMO Power Spectral Density Measurements



Plot 7-73. Power Spectral Density Plot MIMO ANT1 (802.11b - Ch. 1)



Plot 7-74. Power Spectral Density Plot MIMO ANT1 (802.11b - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 64 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 64 of 150

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Plot 7-75. Power Spectral Density Plot MIMO ANT1 (802.11b - Ch. 11)



Plot 7-76. Power Spectral Density Plot MIMO ANT1 (802.11g - Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Done GE of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 65 of 150





Plot 7-77. Power Spectral Density Plot MIMO ANT1 (802.11g - Ch. 6)



Plot 7-78. Power Spectral Density Plot MIMO ANT1 (802.11g - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 66 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 66 of 150





Plot 7-79. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 1)



Plot 7-80. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 67 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 67 of 150





Plot 7-81. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 11)



Plot 7-82. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 68 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	rage oo or 150





Plot 7-83. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 6)



Plot 7-84. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 60 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 69 of 150





Plot 7-85. Power Spectral Density Plot MIMO ANT2 (802.11b - Ch. 1)



Plot 7-86. Power Spectral Density Plot MIMO ANT2 (802.11b - Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 70 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	rage 70 of 150





Plot 7-87. Power Spectral Density Plot MIMO ANT2 (802.11b - Ch. 11)



Plot 7-88. Power Spectral Density Plot MIMO ANT2 (802.11g - Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 71 of 150
1M2405140042-03.A3L	06/17/2024 - 08/08/2024	Portable Tablet	Page 71 of 150