

| Spectrun<br>Occupied | d BW      |                                    | ,      | +           |        |                       |       |                          |         |       |                             |   |      |                                     |         |        |                         | ₿                       | Trace              | • 崇               |
|----------------------|-----------|------------------------------------|--------|-------------|--------|-----------------------|-------|--------------------------|---------|-------|-----------------------------|---|------|-------------------------------------|---------|--------|-------------------------|-------------------------|--------------------|-------------------|
| L<br>L               |           | Input: RF<br>Coupling<br>Align: Au | EDC    | Co<br>Fre   |        | orr RCal<br>: Int (S) |       | en: 30 dB<br>/ Path: Sta | andard  | Gate: | Free Run<br>Off<br>ain: Low | 1 | Avg  | ter Freq:<br> Hold: 10<br>io Std: N |         | 00000  | GHz                     |                         |                    |                   |
| 1 Graph              |           |                                    | •      |             | 2. 01  |                       |       |                          |         |       |                             |   |      |                                     |         |        |                         | Trace T                 | Гуре<br>ar / Write | Trace<br>Control  |
| Scale/Di             | iv 10.0   | dB                                 |        |             |        | -f                    | Ref   | Value 15                 | i.00 dl | Bm    |                             |   |      |                                     |         |        |                         |                         |                    | Math              |
| Log<br>5.00<br>-5.00 |           |                                    |        |             |        | mm                    | lum   | manha                    | y       | Imly  | hundered                    |   |      |                                     |         |        |                         | Tra                     | ce Average         | Detector          |
| -15.0                |           |                                    |        |             |        | 1                     |       |                          |         |       |                             | h |      |                                     |         |        |                         | <ul> <li>Max</li> </ul> | x Hold             |                   |
| -35 0                |           |                                    |        | ام ا        | . /    |                       |       |                          |         |       |                             | ١ |      |                                     |         |        |                         | Min                     | Hold               | Trace<br>Function |
| -55.0                | Lachour M | nauth                              | nwilln | 4 mod fills | hdr    |                       |       |                          |         |       |                             |   | M) I | madilid                             | walnut  | why    | mhanhapen               | Dest                    | and Mary Hala      | Advanced          |
| -65.0<br>-75.0       |           |                                    |        |             |        |                       |       |                          |         |       |                             | ļ |      |                                     |         |        |                         | Resi                    | tart Max Hold      |                   |
| Center 2<br>#Res BV  |           |                                    |        |             |        | +                     | Video | o BW 1.(                 | 0000    | MHz   |                             |   |      | Sw                                  | eep 4.6 |        | an 50 MHz<br>(1001 pts) |                         |                    |                   |
| 2 Metrics            |           |                                    | •      |             |        |                       |       |                          |         |       |                             |   |      |                                     |         |        |                         |                         |                    |                   |
|                      |           |                                    |        |             |        |                       |       |                          |         | Меа   |                             |   |      |                                     |         |        |                         |                         |                    |                   |
|                      | Occup     | ied Ban                            |        | h<br>465 MH | z      |                       |       |                          |         | Tota  | l Power                     |   |      |                                     | 19      | .8 dB  | m                       |                         |                    |                   |
| Transmit Freq Error  |           |                                    |        | 9.559 k     |        |                       |       |                          | f obw f | Powe  | er                          |   |      | 9.00                                |         |        |                         |                         |                    |                   |
|                      | x dB B    | andwidt                            | h      |             | ,      | 16.74 N               | Hz    |                          |         | x dB  |                             |   |      |                                     | -6      | 6.00 d | В                       |                         |                    |                   |
|                      |           |                                    |        |             | in 16  | 2024                  |       | ٨                        |         |       |                             |   |      |                                     |         |        |                         |                         |                    |                   |
|                      | า (       | <u>c</u> il                        |        |             | 3:21:4 |                       |       | $\triangle$              |         |       |                             |   |      |                                     |         |        |                         |                         |                    |                   |

Plot 7-45. 6dB Bandwidth Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 11)



 
 FCC ID: A3LSMX828U
 MEASUREMENT REPORT (CERTIFICATION)
 Approved by: Technical Manager

 Test Report S/N:
 Test Dates:
 EUT Type:

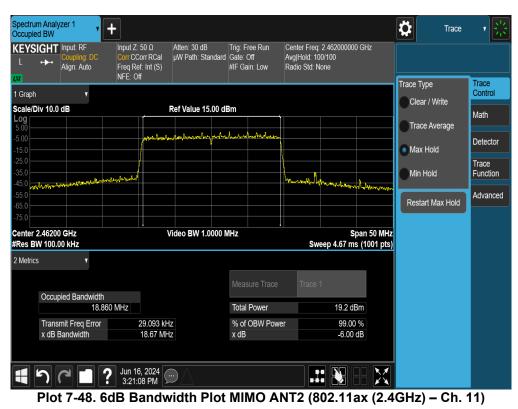
 1M2405140039-10.A3L
 6/10/2024 - 7/30/2024
 Portable Tablet

 © 2024 ELEMENT
 V11.0 07/06/2023



| Spectrum<br>Occupied    | n Analyzer 1<br>I BW   | +   |  |                       |  |  |                  |                            | <b>Ö</b>   | Trace    | - * 影             |
|-------------------------|--|---|--|-----------------------|--|--|------------------|----------------------------|------------|----------|-------------------|
| -                       | GHT Input: RF<br>↔ Coupling: DC<br>Align: Auto   | Input Z: 50<br>Corr CCorr<br>Freq Ref: In<br>NFE: Off | RCal µW Pa   | 30 dB<br>th: Standard | Trig: Free R<br>Gate: Off<br>#IF Gain: Lo            | Center Freq:<br>Avg Hold: 10<br>Radio Std: N |                  | ) GHz                      |            |          |                   |
| 1 Graph                 | v  |   |  |                       |  |  |                  |                            | Trace Type |          | Trace<br>Control  |
| Log                     | v 10.0 dB  | f   | Ref Val  | ue 15.00 d            | Bm   |  |                  |                            | Clear / \  |          | Math              |
| 5.00<br>-5.00<br>-15.0  |  |   | have have been by the second | randon y northe       | ntren market and |  |                  |                            | Trace A    |          | Detector          |
| -25.0<br>-35.0<br>-45.0 | warthumarhand  | angelinter  |  |                       |  | M. Walker                                    | anthairchine and |                            | Min Hol    | d        | Trace<br>Function |
| -55.0<br>-65.0          | Area and a construction of the second s |   |  |                       |  |  |                  | Willprin/hushivn           | Restart M  | Max Hold | Advanced          |
|                         | .43700 GHz<br>/ 100.00 kHz   |   | Video B  | W 1.0000 I            | MHz  | Sw   |                  | pan 50 MHz<br>s (1001 pts) |            |          |                   |
| 2 Metrics               | ٣  |   |  |                       |  |  |                  |                            |            |          |                   |
|                         | Occupied Bandwid   | th<br>.686 MHz  |  |                       | Measure T  | Trace  | 1<br>20.2 dE     |                            |            |          |                   |
|                         | Transmit Freq Erro<br>x dB Bandwidth   | or -18.   | .035 kHz<br>.08 MHz  |                       | % of OBW   |  | 99.00<br>-6.00   | %                          |            |          |                   |
|                         |  |   |  |                       | XUD  |  | -0.00            |                            |            |          |                   |
| ľ                       | 2 4  | Jun 16, 2<br>3:15:48                                  |  | 7                     |  |  |                  |                            |            |          |                   |

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



 
 FCC ID: A3LSMX828U
 MEASUREMENT REPORT (CERTIFICATION)
 Approved by: Technical Manager

 Test Report S/N:
 Test Dates:
 EUT Type:

 1M2405140039-10.A3L
 6/10/2024 - 7/30/2024
 Portable Tablet

 © 2024 ELEMENT
 V11.0 07/06/2023



## 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.

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |
|---------------------|-----------------------|---------------------------------------|------------------|--|--|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dama 42 af 422   |  |  |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 43 of 133   |  |  |
| © 2024 ELEMENT      | •                     |                                       | V11.0 07/06/2023 |  |  |



|                 | 2.4GHz   | WIFI (20MI  | Hz 802.11b                      | SISO ANT1)   | Conducted  | Conducted  |
|-----------------|--|---|---------------------------------|--|--|--|
| IEEE<br>802.11b | Freq.<br>[MHz]   | Channel   | Detector                        | Conducted<br>Power [dBm]   | Power Limit<br>[dBm]   | Power Margin<br>[dB]   |
| Ш               | 2412   | 1   |                                 | 18.41  | 30.00  | -11.59   |
| м               | 2437   | 6   | Average                         | 18.53  | 30.00  | -11.47   |
|                 | 2462   | 11  |                                 | 18.64  | 30.00  | -11.36   |
| œ               | 2412   | 1   |                                 | 20.98  | 30.00  | -9.02  |
|                 | 2437   | 6   | Peak                            | 21.07  | 30.00  | -8.93  |
|                 | 2462   | 11  |                                 | 21.19  | 30.00  | -8.81  |
|                 | 2.4GHz   | WIFI (20MI  | Conducted                       | Conducted  |  |  |
|                 | Freq.<br>[MHz]   | Channel   | Detector                        | Conducted<br>Power [dBm]   | Power Limit<br>[dBm]   | Power Margin<br>[dB]   |
| D               |  |   |                                 |  |  |  |
| ····            | 2412   | 1   |                                 | 16.83  | 30.00  | -13.17   |
| IEEE<br>802.11( | 2417   | 2   | Augrage                         | 17.48  | 30.00  | -12.52   |
|                 | 2437   | 6   | Average                         | 17.43  | 30.00  | -12.57   |
| E C             | 2457   | 10  |                                 | 17.67  | 30.00  | -12.33   |
|                 | 2462   | 11  |                                 | 17.64  | 30.00  | -12.36   |
| ω               | 2412   | 1   |                                 | 25.48  | 30.00  | -4.52  |
|                 | 2417   | 2   | Peak                            | 25.75  | 30.00  | -4.25  |
|                 | 2437   | -   | Peak                            | 23.45  | 30.00  | -6.55  |
|                 | 2457   | 10  |                                 | 25.72  | 30.00  | -4.28  |
|                 | 2462   | 11  | I= 900 11a                      | 25.58<br>SISO ANT1)  | 30.00  | -4.42  |
|                 |  |   | Conducted                       | Conducted  |  |  |
|                 | Freq.  | Channel   | Detector                        | Conducted  | Power Limit  | Power Margin   |
| L               | [MHz]  |   |                                 | Power [dBm]  | [dBm]  | [dB]   |
| <b>_</b>        |  |   |                                 | . one. [abiii]   | []   |  |
| _               | 2412   | 1   |                                 | 16.18  | 30.00  | -13.82   |
| Е<br>11         | 2412<br>2417   | 1 2   |                                 |  |  | -13.82<br>-12.61   |
| EE<br>11        |  |   | Average                         | 16.18  | 30.00  |  |
| EEE<br>2.11     | 2417   | 2   | Average                         | 16.18<br>17.39   | 30.00<br>30.00   | -12.61<br>-12.61<br>-12.41   |
| IEEE<br>02.11   | 2417<br>2437   | 2   | Average                         | 16.18<br>17.39<br>17.39<br>17.59<br>16.81  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00   | -12.61<br>-12.61<br>-12.41<br>-13.19   |
| IEEE<br>802.11  | 2417<br>2437<br>2457   | 2<br>6<br>10<br>11<br>1   | Average                         | 16.18<br>17.39<br>17.39<br>17.59   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.61<br>-12.41   |
| IEEE<br>802.111 | 2417<br>2437<br>2457<br>2462   | 2<br>6<br>10<br>11  |                                 | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00   | -12.61<br>-12.61<br>-12.41<br>-13.19   |
| IEEE<br>802.11  | 2417<br>2437<br>2457<br>2462<br>2412   | 2<br>6<br>10<br>11<br>1   | Average<br>Peak                 | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11  |
| IEEE<br>802.11  | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2437<br>2457   | 2<br>6<br>10<br>11<br>1<br>2<br>6<br>10   |                                 | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44   |
| IEEE<br>802.11  | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462   | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11  | Peak                            | 16.18<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61  |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462   | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11  | Peak                            | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44   |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462   | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH                            | Peak                            | 16.18<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b>   | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted   |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br><b>2.4GHz</b>                                    | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11  | Peak                            | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61<br><b>SISO ANT1)</b>  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted<br>Power Margin<br>[dB]                               |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br><b>2.4GHz</b> V<br>Freq.                         | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH                            | Peak<br>Iz 802.11ax<br>Detector | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61<br><b>SISO ANT1)</b><br>Conducted   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit                                     | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted<br>Power Margin                                       |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2457<br>2462<br>2.46Hz<br>Freq.<br>[MHz]                 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel                 | Peak                            | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61<br>SISO ANT1)<br>Conducted<br>Power [dBm]   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]                   | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted<br>Power Margin<br>[dB]                               |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.46Hz<br>Freq.<br>[MHz]<br>2412                 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel<br>1            | Peak<br>Iz 802.11ax<br>Detector | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61<br>SISO ANT1)<br>Conducted<br>Power [dBm]<br>14.42  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]<br>30.00                   | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted<br>Power Margin<br>[dB]<br>-15.58                     |
|                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.46Hz<br>Freq.<br>[MHz]<br>2412<br>2437         | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel<br>1<br>6       | Peak<br>Iz 802.11ax<br>Detector | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61<br>SISO ANT1)<br>Conducted<br>Power [dBm]<br>14.42<br>14.39                               | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]<br>30.00<br>30.00          | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted<br>Power Margin<br>[dB]<br>-15.58<br>-15.61           |
| E<br>1ax<br>-   | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.4GHz<br>Freq.<br>[MHz]<br>2412<br>2437<br>2462 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel<br>1<br>6<br>11 | Peak<br>Iz 802.11ax<br>Detector | 16.18<br>17.39<br>17.39<br>17.59<br>16.81<br>24.89<br>25.74<br>23.39<br>25.56<br>25.61<br><b>SISO ANT1)</b><br><b>Conducted</b><br><b>Power [dBm]</b><br>14.42<br>14.39<br>14.46 | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]<br>30.00<br>30.00<br>30.00 | -12.61<br>-12.61<br>-12.41<br>-13.19<br>-5.11<br>-4.26<br>-6.61<br>-4.44<br>-4.39<br>Conducted<br>Power Margin<br>[dB]<br>-15.58<br>-15.61<br>-15.54 |

Table 7-5. Conducted Output Power Measurements SISO ANT1

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |
|---------------------|-----------------------|---------------------------------------|------------------|--|--|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dega 44 of 122   |  |  |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 44 of 133   |  |  |
| © 2024 ELEMENT      | •                     |                                       | V11.0 07/06/2023 |  |  |



|                    | 2.4GHz   | WIFI (20MI   | Hz 802.11b                                 | SISO ANT2)  | Conducted  | Conducted  |
|--------------------|--|--|--|---|--|--|
| IEEE<br>802.11b    | Freq.<br>[MHz]   | Channel  | Detector                                   | Conducted<br>Power [dBm]  | Power Limit<br>[dBm]   | Power Margin<br>[dB]   |
| ш                  | 2412   | 1  |  | 18.76   | 30.00  | -11.24   |
| NШ                 | 2437   | 6  | Average                                    | 18.45   | 30.00  | -11.55   |
| — O                | 2462   | 11   |  | 18.46   | 30.00  | -11.54   |
| 8                  | 2412   | 1  |  | 21.43   | 30.00  | -8.57  |
|                    | 2437   | 6  | Peak                                       | 20.96   | 30.00  | -9.04  |
|                    | 2462   | 11   |  | 21.02   | 30.00  | -8.98  |
|                    | 2.4GHz   | WIFI (20MI   | Conducted                                  | Conducted   |  |  |
| 802.11g            | Freq.<br>[MHz]   | Channel  | Detector                                   | Conducted<br>Power [dBm]  | Power Limit<br>[dBm]   | Power Margin<br>[dB]   |
| . :                | 2412   | 1  |  | 17.38   | 30.00  | -12.62   |
| $\sim$             | 2417   | 2  |  | 17.49   | 30.00  | -12.51   |
| 0                  | 2437   | 6  | Average                                    | 17.52   | 30.00  | -12.48   |
| 8                  | 2457   | 10   |  | 17.65   | 30.00  | -12.35   |
| ш                  | 2462   | 11   |  | 17.58   | 30.00  | -12.42   |
| Ë                  | 2412   | 1  |  | 23.48   | 30.00  | -6.52  |
|                    | 2417   | 2  |  | 23.98   | 30.00  | -6.02  |
| Ш                  | 2437   | 6  | Peak                                       | 23.96   | 30.00  | -6.04  |
|                    | 2457   | 10   |  | 24.12   | 30.00  | -5.88  |
|                    | 2462   | 11   |  | 24.13   | 30.00  | -5.87  |
|                    | 2.4GHz   | WIFI (20MI   | Hz 802.11n                                 | Conducted   | Conducted  |  |
| L                  | Freq.  | Channel  | Detector                                   | Conducted   | Power Limit  | Power Margin   |
|                    | [MHz]  | Channel  |  | Power [dBm]   | [dBm]  | [dB]   |
| <b>—</b>           |  |  |  | i onei labiil   | fanul  |  |
| .1                 | 2412   | 1  |  | 15.95   | 30.00  | -14.05   |
| 2.1                | 2412<br>2417   | 1 2  |  |   |  | -14.05<br>-12.61   |
| 02.1               |  | 2  | Average                                    | 15.95   | 30.00  | -12.61<br>-12.68   |
| 802.1              | 2417   | 2  | Average                                    | 15.95<br>17.39  | 30.00<br>30.00   | -12.61   |
| 5 802.11           | 2417<br>2437   | 2  | Average                                    | 15.95<br>17.39<br>17.32<br>17.47<br>16.55   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00   | -12.61<br>-12.68   |
|                    | 2417<br>2437<br>2457<br>2462<br>2412   | 2<br>6<br>10<br>11<br>1  | Average                                    | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.68<br>-12.53   |
| EE                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2412<br>2417   | 2<br>6<br>10<br>11   |  | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00   | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01   |
| EE                 | 2417<br>2437<br>2457<br>2462<br>2412   | 2<br>6<br>10<br>11<br>1<br>2<br>6  | Average<br>Peak                            | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44  |
|                    | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2437<br>2457   | 2<br>6<br>10<br>11<br>1<br>2<br>6<br>10  |  | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47   |
| EE                 | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2437<br>2457<br>2462   | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11   | Peak                                       | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06  |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br><b>2.4GHz</b>                                    | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11   | Peak                                       | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br>3.92<br><b>SISO ANT2)</b>   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b>   | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted   |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2437<br>2457<br>2462   | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH                                 | Peak                                       | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br><b>SISO ANT2)</b><br>Conducted  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00  | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08  |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br><b>2.4GHz</b>                                    | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11   | Peak                                       | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br><b>SISO ANT2)</b><br>Conducted<br>Power [dBm]                                     | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b>   | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted   |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.46Hz<br>Freq.<br>[MHz]<br>2412                 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH                                 | Peak<br>Iz 802.11ax<br>Detector            | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br><b>SISO ANT2)</b><br>Conducted  | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit                                     | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted<br>Power Margin                                       |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2457<br>2462<br>2.4GHz<br>Freq.<br>[MHz]                 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel                      | Peak                                       | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br><b>SISO ANT2)</b><br>Conducted<br>Power [dBm]                                     | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]                            | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted<br>Power Margin<br>[dB]                               |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.46Hz<br>Freq.<br>[MHz]<br>2412                 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel<br>1                 | Peak<br>Iz 802.11ax<br>Detector            | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br>SISO ANT2)<br>Conducted<br>Power [dBm]<br>14.72                                   | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]<br>30.00                   | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted<br>Power Margin<br>[dB]<br>-15.28                     |
| IEEE               | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.46Hz<br>Freq.<br>[MHz]<br>2412<br>2437         | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel<br>1<br>6<br>11<br>1 | Peak<br>Iz 802.11ax<br>Detector<br>Average | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br><b>SISO ANT2)</b><br>Conducted<br>Power [dBm]<br>14.72<br>14.42<br>14.53<br>24.27 | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]<br>30.00<br>30.00          | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted<br>Power Margin<br>[dB]<br>-15.28<br>-15.58           |
| E<br>1ax IEEE<br>I | 2417<br>2437<br>2457<br>2462<br>2412<br>2417<br>2437<br>2457<br>2462<br>2.4GHz<br>Freq.<br>[MHz]<br>2412<br>2437<br>2462 | 2<br>6<br>10<br>11<br>2<br>6<br>10<br>11<br>WIFI (20MH<br>Channel<br>1<br>6<br>11      | Peak<br>Iz 802.11ax<br>Detector            | 15.95<br>17.39<br>17.32<br>17.47<br>16.55<br>24.56<br>23.99<br>23.94<br>24.53<br>23.92<br>SISO ANT2)<br>Conducted<br>Power [dBm]<br>14.72<br>14.42<br>14.53                 | 30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br>30.00<br><b>Conducted</b><br>Power Limit<br>[dBm]<br>30.00<br>30.00<br>30.00 | -12.61<br>-12.68<br>-12.53<br>-13.45<br>-5.44<br>-6.01<br>-6.06<br>-5.47<br>-6.08<br>Conducted<br>Power Margin<br>[dB]<br>-15.28<br>-15.58<br>-15.47 |

Table 7-6. Conducted Output Power Measurements SISO ANT2

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |
|---------------------|-----------------------|---------------------------------------|------------------|--|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Page 45 of 133   |  |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       |                  |  |
| © 2024 ELEMENT      | •                     |                                       | V11.0 07/06/2023 |  |



|              |                                       | 2                 | .4GHz WIFI          | (20MHz 802.1                     | 1b MIMO)                         |                                  | Conducted                                 | Conducted                           |
|--------------|---------------------------------------|-------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|---|-------------------------------------|
| 1b           | Freq<br>[MHz]                         | Channel           | Detector            |                                  | lucted Power [                   |                                  | Power Limit<br>[dBm]                      | Power Margin<br>[dB]                |
| Ш            |                                       |                   |                     | ANT1                             | ANT2                             | MIMO                             |   |                                     |
| IEE<br>802.1 | 2412                                  | 1                 |                     | 18.42                            | 18.87                            | 21.66                            | 30.00                                     | -8.34                               |
| ШМ           | 2437                                  | 6                 | Average             | 18.47                            | 18.41                            | 21.45                            | 30.00                                     | -8.55                               |
|              | 2462                                  | 11                |                     | 18.63                            | 18.49                            | 21.57                            | 30.00                                     | -8.43                               |
| 8            | 2412                                  | 1                 | Peak                | 21.12                            | 21.49                            | 24.32                            | 30.00                                     | -5.68                               |
|              | 2437                                  | 6                 | Реак                | 21.01                            | 20.95                            | 23.99                            | 30.00                                     | -6.01                               |
|              | 2462                                  | 11                |                     | 21.25                            | 21.12                            | 24.20                            | 30.00                                     | -5.80                               |
|              |                                       | 2                 | 4GHZ WIFI           | (20MHz 802.1                     | IG MIMO)                         |                                  | Conducted                                 | Conducted                           |
| g            | Freq                                  | Channel           | Detector            | Cond                             | lucted Power [                   | dBm]                             | Power Limit                               | Power Margin                        |
| <b>~</b>     | [MHz]                                 | Channel           | Detector            | ANT1                             | ANT2                             | MIMO                             | [dBm]                                     | [dB]                                |
| <u> </u>     | 2412                                  | 1                 |                     | 16.96                            | 17.46                            | 20.23                            | 30.00                                     | -9.77                               |
| 802.1        | 2412                                  | 2                 | 1                   | 17.50                            | 17.73                            | 20.23                            | 30.00                                     | -9.37                               |
| ö            | 2417                                  | 6                 | Average             | 17.47                            | 17.42                            | 20.03                            | 30.00                                     | -9.54                               |
| <u> </u>     | 2457                                  | 10                |                     | 17.57                            | 17.84                            | 20.72                            | 30.00                                     | -9.28                               |
|              | 2462                                  | 11                | 1                   | 17.65                            | 17.78                            | 20.73                            | 30.00                                     | -9.27                               |
| Щ            | 2412                                  | 1                 |                     | 23.58                            | 24.43                            | 27.04                            | 30.00                                     | -2.96                               |
| Щ            | 2417                                  | 2                 | 1                   | 23.48                            | 23.97                            | 26.74                            | 30.00                                     | -3.26                               |
| Ш            | 2437                                  | 6                 | Peak                | 23.04                            | 23.53                            | 26.30                            | 30.00                                     | -3.70                               |
| _            | 2457                                  | 10                | 1                   | 23.18                            | 24.18                            | 26.72                            | 30.00                                     | -3.28                               |
|              | 2462                                  | 11                | 1                   | 23.11                            | 23.78                            | 26.47                            | 30.00                                     | -3.53                               |
|              |                                       | 2                 | 4GHz WIFI           | (20MHz 802.1                     | 1n MIMO)                         |                                  | Conducted                                 | Conducted                           |
| u            | Freq                                  | Channel           | Detector            | Cond                             | lucted Power [                   | dBm]                             | Power Limit                               | Power Margin                        |
| <u> </u>     | [MHz]                                 | Channer           | Detector            | ANT1                             | ANT2                             | мімо                             | [dBm]                                     | [dB]                                |
| 802.1        | 2412                                  | 1                 |                     | 15.46                            | 16.14                            | 18.82                            | 30.00                                     | -11.18                              |
| N            | 2417                                  | 2                 | 1                   | 17.44                            | 17.58                            | 20.52                            | 30.00                                     | -9.48                               |
| ö            | 2437                                  | 6                 | Average             | 17.39                            | 17.34                            | 20.38                            | 30.00                                     | -9.62                               |
| 80           | 2457                                  | 10                |                     | 17.42                            | 17.83                            | 20.64                            | 30.00                                     | -9.36                               |
|              | 2462                                  | 11                | 1                   | 16.53                            | 16.71                            | 19.63                            | 30.00                                     | -10.37                              |
| EE           | 2412                                  | 1                 |                     | 23.18                            | 24.05                            | 26.65                            | 30.00                                     | -3.35                               |
|              | 2417                                  | 2                 | 1                   | 23.36                            | 23.96                            | 26.68                            | 30.00                                     | -3.32                               |
| <u>Ш</u>     | 2437                                  | 6                 | Peak                | 23.01                            | 23.51                            | 26.28                            | 30.00                                     | -3.72                               |
|              | 2457                                  | 10                | 1                   | 23.21                            | 24.26                            | 26.78                            | 30.00                                     | -3.22                               |
|              | 2462                                  | 11                | 1                   | 23.16                            | 23.73                            | 26.46                            | 30.00                                     | -3.54                               |
|              |                                       | 2.                | 4GHz WIFI           | (20MHz 802.11                    | ax MIMO)                         |                                  | Conducted                                 | Conducted                           |
|              | Free                                  |                   |                     | Conc                             | lucted Power [                   | dBml                             | Power Limit                               | Power Margin                        |
|              |                                       | Channel           | Detector            | COIR                             | deteu Power [                    |                                  |   |                                     |
| aX           | Freq<br>[MHz]                         | Channel           | Detector            |                                  |                                  |                                  | - [dBm]                                   | I Idel                              |
| ш            | [MHz]                                 |                   | Detector            | ANT1                             | ANT2                             | MIMO                             | [dBm]                                     | [dB]                                |
| ш            | [MHz]<br>2412                         | 1                 |                     | 14.32                            | 14.83                            | 17.59                            | 30.00                                     | -12.41                              |
| ш            | [MHz]<br>2412<br>2437                 | 1 6               | Detector<br>Average | 14.32<br>14.22                   | 14.83<br>14.43                   | 17.59<br>17.34                   | 30.00<br>30.00                            | -12.41<br>-12.66                    |
| ш            | [MHz]<br>2412<br>2437<br>2462         | 1<br>6<br>11      |                     | 14.32<br>14.22<br>14.68          | 14.83<br>14.43<br>14.51          | 17.59<br>17.34<br>17.61          | 30.00<br>30.00<br>30.00                   | -12.41<br>-12.66<br>-12.39          |
| ш            | [MHz]<br>2412<br>2437<br>2462<br>2412 | 1<br>6<br>11<br>1 | Average             | 14.32<br>14.22<br>14.68<br>23.27 | 14.83<br>14.43<br>14.51<br>23.84 | 17.59<br>17.34<br>17.61<br>26.57 | 30.00<br>30.00<br>30.00<br>30.00<br>30.00 | -12.41<br>-12.66<br>-12.39<br>-3.43 |
| ш 🥿          | [MHz]<br>2412<br>2437<br>2462         | 1<br>6<br>11      |                     | 14.32<br>14.22<br>14.68          | 14.83<br>14.43<br>14.51          | 17.59<br>17.34<br>17.61          | 30.00<br>30.00<br>30.00                   | -12.41<br>-12.66<br>-12.39          |

Table 7-7. Conducted Output Power Measurements MIMO

| FCC ID: A3LSMX828U  |                       | Approved by:<br>Technical Manager |                  |
|---------------------|-----------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                         | Dage 46 of 122   |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                   | Page 46 of 133   |
| © 2024 ELEMENT      | •                     |                                   | V11.0 07/06/2023 |



#### 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 18.42 dBm for Antenna 1 and 18.87 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(18.42dBm + 18.87 dBm) = (69.50 mW + 77.09 mW) = 146.59 mW = 21.66 dBm

| FCC ID: A3LSMX828U  |                       | Approved by:<br>Technical Manager |                  |  |
|---------------------|-----------------------|-----------------------------------|------------------|--|
| Test Report S/N:    | Test Dates:           | EUT Type:                         | Page 47 of 133   |  |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                   |                  |  |
| © 2024 ELEMENT      | •                     | •                                 | V11.0 07/06/2023 |  |



## 7.4 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
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 10kHz
- 4. VBW = 1MHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. 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: A3LSMX828U         |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                |  |  |  |  |
|----------------------------|-----------------------|---------------------------------------|----------------|--|--|--|--|
| Test Report S/N:           | Test Dates:           | EUT Type:                             | Dama 40 of 400 |  |  |  |  |
| 1M2405140039-10.A3L        | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 48 of 133 |  |  |  |  |
| © 2024 ELEMENT V11.0 07/06 |                       |                                       |                |  |  |  |  |



# **Power Spectral Density Measurements**

| Frequency<br>[MHz] | Channel<br>No. | 802.11<br>Mode | Data<br>Rate<br>[Mbps] | Measured<br>Power<br>Spectral<br>Density [dBm] | Maximum<br>Permissible<br>Power<br>Density<br>[dBm / 3kHz] | Margin<br>[dB] | Pass /<br>Fail |
|--------------------|----------------|----------------|------------------------|--|--|----------------|----------------|
| 2412               | 1              | b              | 1                      | -0.90  | 8.00   | -8.90          | Pass           |
| 2437               | 6              | b              | 1                      | -1.11  | 8.00   | -9.11          | Pass           |
| 2462               | 11             | b              | 1                      | -1.38  | 8.00   | -9.38          | Pass           |
| 2412               | 1              | g              | 6                      | -4.45  | 8.00   | -12.45         | Pass           |
| 2437               | 6              | g              | 6                      | -4.34  | 8.00   | -12.34         | Pass           |
| 2462               | 11             | g              | 6                      | -4.34  | 8.00   | -12.34         | Pass           |
| 2412               | 1              | n              | 6.5/7.2<br>(MCS0)      | -5.39  | 8.00   | -13.39         | Pass           |
| 2437               | 6              | n              | 6.5/7.2<br>(MCS0)      | -4.36  | 8.00   | -12.36         | Pass           |
| 2462               | 11             | n              | 6.5/7.2<br>(MCS0)      | -4.38  | 8.00   | -12.38         | Pass           |
| 2412               | 1              | ax             | 6.5/7.2<br>(MCS0)      | -7.24  | 8.00   | -15.24         | Pass           |
| 2437               | 6              | ax             | 6.5/7.2<br>(MCS0)      | -6.77  | 8.00   | -14.77         | Pass           |
| 2462               | 11             | ax             | 6.5/7.2<br>(MCS0)      | -6.73  | 8.00   | -14.73         | Pass           |

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

| FCC ID: A3LSMX828U              |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                |
|---------------------------------|-----------------------|---------------------------------------|----------------|
| Test Report S/N:                | Test Dates:           | EUT Type:                             | Dega 40 of 122 |
| 1M2405140039-10.A3L             | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 49 of 133 |
| 0 2024 ELEMENT V11.0 07/06/2023 |                       |                                       |                |



| Frequency<br>[MHz] | Channel<br>No. | 802.11<br>Mode | Data<br>Rate<br>[Mbps] | Measured<br>Power<br>Spectral<br>Density [dBm] | Maximum<br>Permissible<br>Power<br>Density<br>[dBm / 3kHz] | Margin<br>[dB] | Pass /<br>Fail |
|--------------------|----------------|----------------|------------------------|--|--|----------------|----------------|
| 2412               | 1              | b              | 1                      | -0.82  | 8.00   | -8.82          | Pass           |
| 2437               | 6              | b              | 1                      | -1.78  | 8.00   | -9.78          | Pass           |
| 2462               | 11             | b              | 1                      | -2.34  | 8.00   | -10.34         | Pass           |
| 2412               | 1              | g              | 6                      | -5.19  | 8.00   | -13.19         | Pass           |
| 2437               | 6              | g              | 6                      | -4.75  | 8.00   | -12.75         | Pass           |
| 2462               | 11             | g              | 6                      | -4.45  | 8.00   | -12.45         | Pass           |
| 2412               | 1              | n              | 6.5/7.2<br>(MCS0)      | -6.04  | 8.00   | -14.04         | Pass           |
| 2437               | 6              | n              | 6.5/7.2<br>(MCS0)      | -3.26  | 8.00   | -11.26         | Pass           |
| 2462               | 11             | n              | 6.5/7.2<br>(MCS0)      | -6.30  | 8.00   | -14.30         | Pass           |
| 2412               | 1              | ax             | 6.5/7.2<br>(MCS0)      | -8.29  | 8.00   | -16.29         | Pass           |
| 2437               | 6              | ax             | 6.5/7.2<br>(MCS0)      | -6.03  | 8.00   | -14.03         | Pass           |
| 2462               | 11             | ax             | 6.5/7.2<br>(MCS0)      | -8.31  | 8.00   | -16.31         | Pass           |

| FCC ID: A3LSMX828U              |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                |
|---------------------------------|-----------------------|---------------------------------------|----------------|
| Test Report S/N:                | Test Dates:           | EUT Type:                             | Dega 50 of 122 |
| 1M2405140039-10.A3L             | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 50 of 133 |
| © 2024 ELEMENT V11.0 07/06/2023 |                       |                                       |                |



| Frequency<br>[MHz] | Channel<br>No. | 802.11<br>Mode | Data<br>Rate<br>[Mbps] | ANT 1<br>Power<br>Spectral<br>Density<br>[dBm] | ANT 2<br>Power<br>Spectral<br>Density<br>[dBm] | Summed<br>MIMO<br>Power<br>Spectral<br>Density<br>[dBm] | Maximum<br>Permissible<br>Power<br>Density<br>[dBm /<br>3kHz] | Margin<br>[dB] | Pass<br>/ Fail |
|--------------------|----------------|----------------|------------------------|--|--|---|---|----------------|----------------|
| 2412               | 1              | b              | 1                      | -2.88  | -1.73  | 0.74  | 8.00  | -7.26          | Pass           |
| 2437               | 6              | b              | 1                      | -2.23  | -2.07  | 0.86  | 8.00  | -7.14          | Pass           |
| 2462               | 11             | b              | 1                      | -1.74  | -0.97  | 1.67  | 8.00  | -6.33          | Pass           |
| 2412               | 1              | g              | 6                      | -8.65  | -7.53  | -5.04   | 8.00  | -13.04         | Pass           |
| 2437               | 6              | g              | 6                      | -4.93  | -3.47  | -1.13   | 8.00  | -9.13          | Pass           |
| 2462               | 11             | g              | 6                      | -7.64  | -6.83  | -4.21   | 8.00  | -12.21         | Pass           |
| 2412               | 1              | n              | 6.5/7.2<br>(MCS0)      | -6.93  | -6.61  | -3.76   | 8.00  | -11.76         | Pass           |
| 2437               | 6              | n              | 6.5/7.2<br>(MCS0)      | -3.01  | -2.76  | 0.13  | 8.00  | -7.87          | Pass           |
| 2462               | 11             | n              | 6.5/7.2<br>(MCS0)      | -6.12  | -6.31  | -3.20   | 8.00  | -11.20         | Pass           |
| 2412               | 1              | ax             | 6.5/7.2<br>(MCS0)      | -8.26  | -6.06  | -4.01   | 8.00  | -12.01         | Pass           |
| 2437               | 6              | ax             | 6.5/7.2<br>(MCS0)      | -7.38  | -5.96  | -3.60   | 8.00  | -11.60         | Pass           |
| 2462               | 11             | ax             | 6.5/7.2<br>(MCS0)      | -8.19  | -7.81  | -4.99   | 8.00  | -12.99         | Pass           |

Table 7-10. Conducted Power Spectral Density Measurements MIMO

| FCC ID: A3LSMX828U              |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                |  |
|---------------------------------|-----------------------|---------------------------------------|----------------|--|
| Test Report S/N:                | Test Dates:           | EUT Type:                             | Dama 54 of 422 |  |
| 1M2405140039-10.A3L             | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 51 of 133 |  |
| © 2024 ELEMENT V11.0 07/06/2023 |                       |                                       |                |  |



## 7.4.1 SISO Antenna-1 Power Spectral Density Measurements





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

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |
|---------------------|-----------------------|---------------------------------------|------------------|--|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dama 50 af 400   |  |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 52 of 133   |  |
| © 2024 ELEMENT      |                       |                                       | V11.0 07/06/2023 |  |





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: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |
|---------------------|-----------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dage 52 of 122   |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 53 of 133   |
| © 2024 ELEMENT      |                       |                                       | V11.0 07/06/2023 |





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



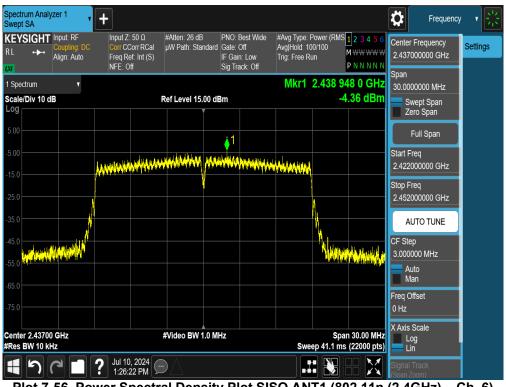
Plot 7-54. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 11)

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |
|---------------------|-----------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dege E4 of 122   |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 54 of 133   |
| © 2024 ELEMENT      | •                     |                                       | V11.0 07/06/2023 |





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



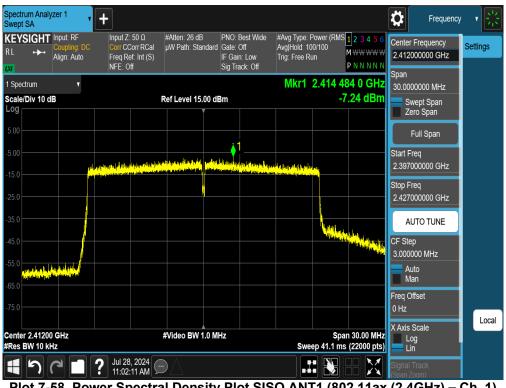
Plot 7-56. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 6)

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |
|---------------------|-----------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dego EE of 122   |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 55 of 133   |
| © 2024 ELEMENT      | <u>.</u>              |                                       | V11.0 07/06/2023 |





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



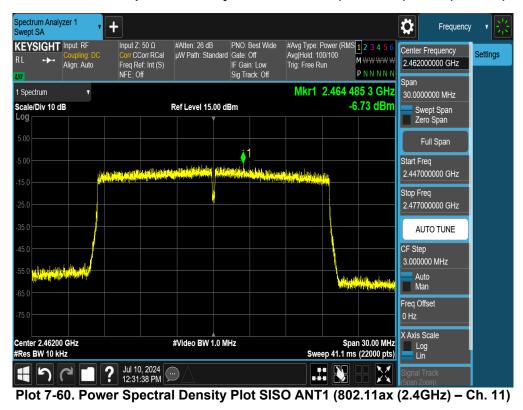
Plot 7-58. Power Spectral Density Plot SISO ANT1 (802.11ax (2.4GHz) - Ch. 1)

| FCC ID: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Dage 56 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 56 of 133                    |
| © 2024 ELEMENT      |                                       | ·               | V11.0 07/06/2023                  |





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



 
 FCC ID: A3LSMX828U
 MEASUREMENT REPORT (CERTIFICATION)
 Approved by: Technical Manager

 Test Report S/N: 1M2405140039-10.A3L
 Test Dates: 6/10/2024 - 7/30/2024
 EUT Type: Portable Tablet
 Page 57 of 133

 © 2024 ELEMENT
 0
 V11.0 07/06/2023
 V11.0 07/06/2023



## 7.4.2 SISO Antenna-2 Power Spectral Density Measurements





| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |
|---------------------|-----------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dema 50 af 400   |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 58 of 133   |
| © 2024 ELEMENT      |                       | ÷                                     | V11.0.07/06/2023 |





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: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Daga 50 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 59 of 133                    |
| © 2024 ELEMENT      | <u>.</u>                              |                 | V11.0 07/06/2023                  |





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



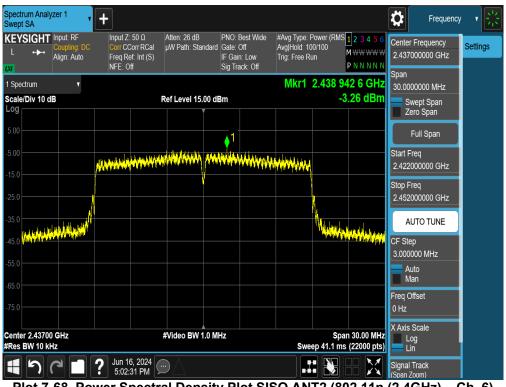
Plot 7-66. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 11)

| FCC ID: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Dage 60 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 60 of 133                    |
| © 2024 ELEMENT      | <u>.</u>                              | ·               | V11.0 07/06/2023                  |





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



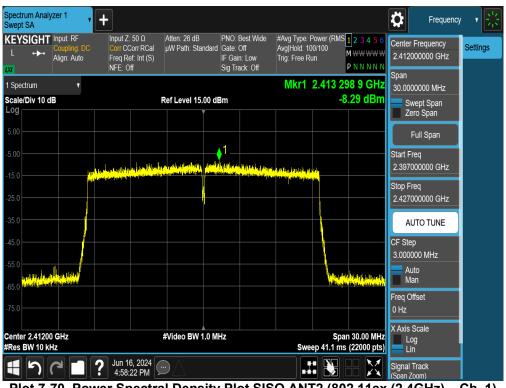
Plot 7-68. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 6)

| FCC ID: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Dage 61 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 61 of 133                    |
| © 2024 ELEMENT      |                                       |                 | V11.0 07/06/2023                  |





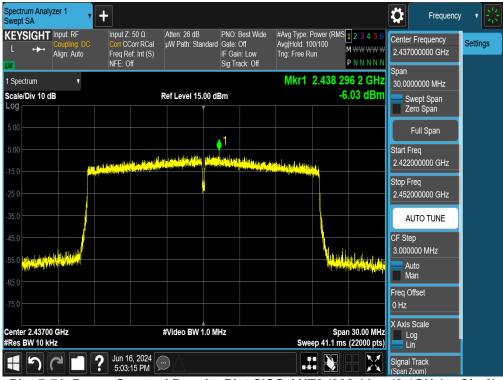
Plot 7-69. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 11)



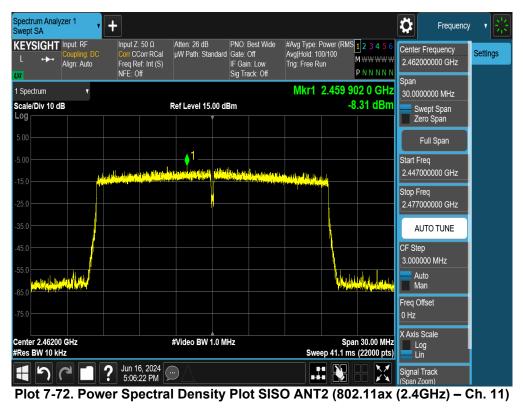
Plot 7-70. Power Spectral Density Plot SISO ANT2 (802.11ax (2.4GHz) – Ch. 1)

| FCC ID: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Dage 62 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 62 of 133                    |
| © 2024 ELEMENT      |                                       |                 | V11.0 07/06/2023                  |





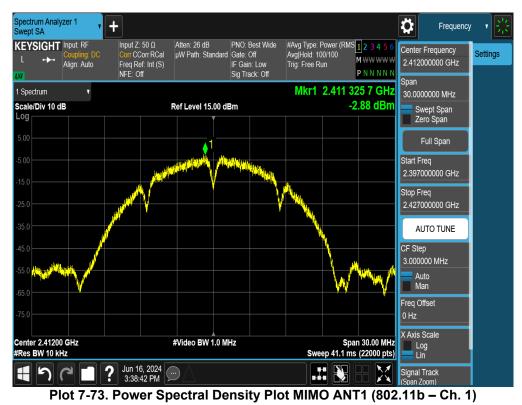
Plot 7-71. Power Spectral Density Plot SISO ANT2 (802.11ax (2.4GHz) – Ch. 6)



| FCC ID: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Dage 62 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 63 of 133                    |
| © 2024 ELEMENT      |                                       |                 | V11.0 07/06/2023                  |



## 7.4.3 MIMO Power Spectral Density Measurements





 
 FCC ID: A3LSMX828U
 MEASUREMENT REPORT (CERTIFICATION)
 Approved by: Technical Manager

 Test Report S/N: 1M2405140039-10.A3L
 Test Dates: 6/10/2024 - 7/30/2024
 EUT Type: Portable Tablet
 Page 64 of 133

 © 2024 ELEMENT
 V11.0 07/06/2023
 V11.0 07/06/2023





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: A3LSMX828U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|-----------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:       | Dage 65 of 122                    |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024                 | Portable Tablet | Page 65 of 133                    |
| © 2024 ELEMENT      | ·                                     |                 | V11.0 07/06/2023                  |





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: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |
|---------------------|-----------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dama 00 af 400   |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 66 of 133   |
| © 2024 ELEMENT      | •                     |                                       | V11.0 07/06/2023 |





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



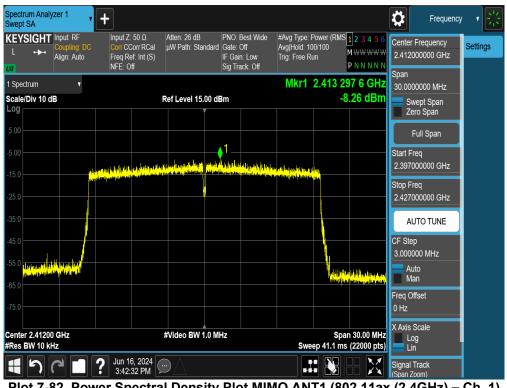
Plot 7-80. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 6)

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |
|---------------------|-----------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | D 07             |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 67 of 133   |
| © 2024 ELEMENT      | •                     |                                       | V11.0 07/06/2023 |





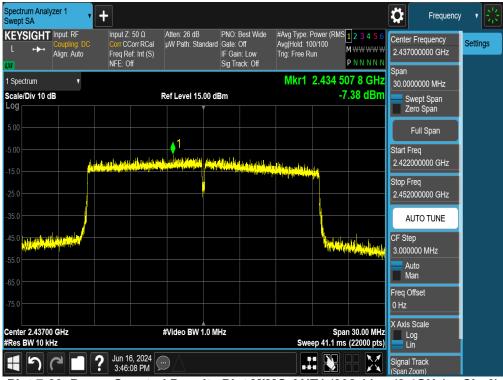
Plot 7-81. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 11)



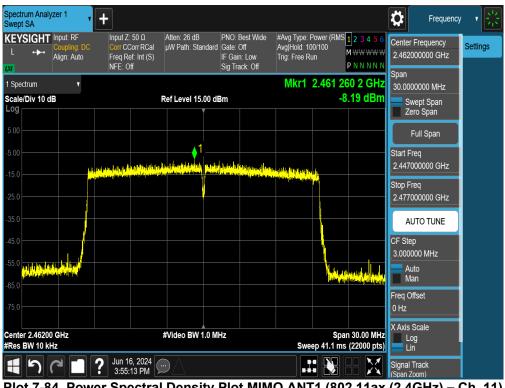
Plot 7-82. Power Spectral Density Plot MIMO ANT1 (802.11ax (2.4GHz) - Ch. 1)

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                |
|---------------------|-----------------------|---------------------------------------|----------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dama 60 of 100 |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 68 of 133 |
| © 2024 ELEMENT      | V11.0 07/06/2023      |                                       |                |





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



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

| FCC ID: A3LSMX828U  |                       | MEASUREMENT REPORT<br>(CERTIFICATION) |                |
|---------------------|-----------------------|---------------------------------------|----------------|
| Test Report S/N:    | Test Dates:           | EUT Type:                             | Dama 60 of 100 |
| 1M2405140039-10.A3L | 6/10/2024 - 7/30/2024 | Portable Tablet                       | Page 69 of 133 |
| © 2024 ELEMENT      |                       |                                       |                |