

### MIMO Antenna-2 26 dB Bandwidth Measurements - (UNII Band 7)



Plot 7-34. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11be (UNII Band 7) – Ch. 149)



Plot 7-35. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11be (UNII Band 7) - Ch. 155)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |  |
|--------------------------------------|------------------------|--|------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Daga 25 of 126   |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 35 01 126   |  |  |
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Plot 7-36. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (UNII Band 7) – Ch. 151)



Plot 7-37. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (UNII Band 7) - Ch. 143)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |
|--------------------------------------|------------------------|--|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dega 26 of 126   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 30 01 120   |  |
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| Keysight Spectrum Analyzer - Occupied  | BW                          |                    |                          |                    |                    | - P          | X     |
|--|-----------------------------|--------------------|--------------------------|--------------------|--------------------|--------------|-------|
| XX RL RF 50Ω AC  | CORREC                      | SENSE:INT          | ALIGN AUTO               | 04:14:45 A         | M Dec 30, 2023     | Trace/Detect | tor   |
|  | Trig                        | g: Free Run Av     | g Hold: 100/100          | Raulo Stu          | None               |              |       |
|  | #IFGain:Low #At             | ten: 30 dB         |                          | Radio Dev          | ice: BTS           |              |       |
|  |                             |                    |                          |                    |                    |              |       |
| 10 dB/div Ref 30.00 dB   | m                           |                    |                          |                    |                    |              |       |
| Log  |                             |                    |                          |                    |                    |              |       |
| 20.0   |                             |                    |                          |                    |                    | Clear W      | Irite |
| 10.0   |                             | formen heren al un |                          |                    |                    | Cicui I      |       |
| 0.00   | Design of the second second |                    | Wenne                    |                    |                    |              |       |
| -10.0  | /                           |                    |                          |                    |                    |              |       |
| -20.0  |                             |                    | I                        |                    |                    | Aver         | rage  |
| -30.0 person and the state of t | undul                       |                    | in a later of the second | dected and a state | When the apply and |              |       |
| -40.0  |                             |                    |                          |                    |                    |              |       |
| 50.0   |                             |                    |                          |                    |                    |              |       |
| -30.0  |                             |                    |                          |                    |                    | Max          | lold  |
| -60.0  |                             |                    |                          |                    |                    |              | _     |
| Center 6.5850 GHz  |                             |                    |                          | Span 8             | 00.0 MHz           |              |       |
| #Res BW 4 MHz  |                             | VBW 50 MHz         |                          | Sweep              | 1.333 ms           | Min F        | lold  |
|  |                             |                    |                          |                    |                    |              |       |
| Occupied Bandwid   | lth                         | Total Powe         | r 23.2                   | dBm                |                    |              |       |
| 3  | 14.41 MHz                   |                    |                          |                    |                    | Dete         | ctor  |
|  |                             |                    |                          |                    |                    | Pe           | eak►  |
| Transmit Freq Error  | -328.20 kHz                 | % of OBW           | Power 99                 | .00 %              |                    | Auto         | Man   |
| x dB Bandwidth   | 331.4 MHz                   | x dB               | -26.                     | 00 dB              |                    |              |       |
|  |                             |                    |                          |                    |                    |              |       |
|  |                             |                    |                          |                    |                    |              |       |
|  |                             |                    |                          |                    |                    |              |       |
|  |                             |                    |                          |                    |                    |              |       |
| MSG  |                             |                    | STATUS                   | 3                  |                    |              |       |

Plot 7-38. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11be (UNII Band 6/7) - Ch. 127)



Plot 7-39. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11be (UNII Band 7/8) - Ch. 159)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |
|--------------------------------------|------------------------|--|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dega 27 of 126   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 37 of 126   |  |
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#### MIMO Antenna-2 26 dB Bandwidth Measurements - (UNII Band 8)



Plot 7-40. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11be (UNII Band 8) - Ch. 209)



Plot 7-41. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11be (UNII Band 8) - Ch. 211)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                   |
|--------------------------------------|------------------------|-----------------------------------|-------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga 29 of 106    |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 36 01 120    |
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Plot 7-42. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (UNII Band 8) - Ch. 215)



Plot 7-43. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (UNII Band 8) - Ch. 207)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |
|--------------------------------------|------------------------|--|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Daga 20 of 126   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 39 01 120   |  |
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| Keysight Spectrum Analyzer - Occupied | d BW             |                             |                             |                                  |                 |
|---------------------------------------|------------------|-----------------------------|-----------------------------|----------------------------------|-----------------|
| <b>LXI</b> RL RF 50 Ω AC              | CORREC           | SENSE:INT                   | ALIGN AUTO 04:16:5          | 1 AM Dec 30, 2023                | Trace/Detector  |
|                                       | Cen              | r Free Run Aval             | HZ Radio S<br>Hold: 100/100 | ta: None                         |                 |
|                                       | #IFGain:Low #Att | ten: 30 dB                  | Radio D                     | evice: BTS                       |                 |
|                                       |                  |                             |                             |                                  |                 |
|                                       |                  |                             |                             |                                  |                 |
| 10 dB/div Ref 30.00 d                 | BM               |                             |                             |                                  |                 |
| 20.0                                  |                  |                             |                             |                                  |                 |
| 10.0                                  |                  |                             |                             |                                  | Clear Write     |
| 10.0                                  | remains revelo   | to make marker washing much | بم ال                       |                                  |                 |
| 0.00                                  |                  |                             |                             |                                  |                 |
| -10.0                                 |                  |                             |                             |                                  |                 |
| -20.0                                 | e du chi         |                             |                             |                                  | Average         |
| -30.0                                 |                  |                             | Unite mer Marken and        | the the lange of the former land |                 |
| 40.0                                  |                  |                             |                             |                                  |                 |
| -40.0                                 |                  |                             |                             |                                  |                 |
| -50.0                                 |                  |                             |                             |                                  | Max Hold        |
| -60.0                                 |                  |                             |                             |                                  |                 |
|                                       |                  |                             |                             |                                  |                 |
| Center 6.9050 GHz                     |                  |                             | Spar                        | 800.0 MHz                        |                 |
| #Res BW 4 MHz                         |                  | VBW 50 MHZ                  | Swee                        | 5 1.333 ms                       | Min Hold        |
| Occurried Developing                  | -141-            | Total Power                 | 22.9 dBm                    |                                  |                 |
| Occupied Bandwi                       | ath              | Total Fower                 | 23.0 UBIII                  |                                  |                 |
|                                       | 314.51 MHz       |                             |                             |                                  | Detector        |
|                                       |                  |                             |                             |                                  | Peak►           |
| Transmit Freq Error                   | -1.5056 MHz      | % of OBW P                  | ower 99.00 %                |                                  | Auto <u>Man</u> |
| x dB Bandwidth                        | 332 0 MHz        | x dB                        | -26 00 dB                   |                                  |                 |
|                                       | 002.0 11112      | A GB                        | 20.00 48                    |                                  |                 |
|                                       |                  |                             |                             |                                  |                 |
|                                       |                  |                             |                             |                                  |                 |
|                                       |                  |                             |                             |                                  |                 |
| MSG                                   |                  |                             | STATUS                      |                                  |                 |
|                                       |                  |                             |                             |                                  |                 |

Plot 7-44. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11be (UNII Band 7/8) - Ch. 191)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |  |
|--------------------------------------|------------------------|-----------------------------------|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Dage 40 of 126   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 40 of 126   |  |
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## 7.3 UNII Output Power Measurement

#### Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies.

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm. For client devices operating under the control of a standard power access point, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

#### **Test Settings**

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 diagram below.



Figure 7-2. Test Instrument & Measurement Setup

#### Test Notes

Compliance for this device while operating under the control of either an indoor low power access point or a standard power access point is demonstrated by applying the tighter low power indoor access point limit of 24dBm e.i.r.p. for both cases.

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |
|--------------------------------------|------------------------|--|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dama 44 af 400   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 41 of 126   |  |
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# **MIMO Maximum Conducted Output Power Measurements**

|         | 6GHz WIFI (20MHz 802.11be MIMO) |                   |                             |       |       |       |                      |                        |                        |
|---------|---------------------------------|-------------------|-----------------------------|-------|-------|-------|----------------------|------------------------|------------------------|
| Band    | Freg [MHz]                      | reg [MHz] Channel | Avg. Conducted Powers [dBm] |       |       | Gain  | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|         |                                 |                   | ANT1                        | ANT2  | MIMO  | [aBi] |                      |                        |                        |
|         | 5935                            | 2                 | 3.73                        | 2.75  | 6.28  | -2.17 | 4.11                 | 24.00                  | -19.89                 |
| LINIL 5 | 5955                            | 1                 | 12.37                       | 12.04 | 15.22 | -2.17 | 13.05                | 24.00                  | -10.95                 |
| UNII-3  | 6175                            | 45                | 12.58                       | 12.11 | 15.36 | -2.17 | 13.19                | 24.00                  | -10.81                 |
|         | 6415                            | 93                | 12.56                       | 12.83 | 15.71 | -2.17 | 13.54                | 24.00                  | -10.46                 |
|         | 6435                            | 97                | 12.76                       | 12.45 | 15.62 | -2.45 | 13.17                | 24.00                  | -10.83                 |
| UNII-6  | 6475                            | 105               | 12.07                       | 12.82 | 15.47 | -2.45 | 13.02                | 24.00                  | -10.98                 |
|         | 6515                            | 113               | 12.09                       | 12.61 | 15.37 | -2.45 | 12.92                | 24.00                  | -11.08                 |
|         | 6535                            | 117               | 12.63                       | 11.85 | 15.27 | -2.62 | 12.65                | 24.00                  | -11.35                 |
|         | 6675                            | 145               | 12.02                       | 12.14 | 15.09 | -2.62 | 12.47                | 24.00                  | -11.53                 |
| UNII-7  | 6695                            | 149               | 12.16                       | 12.38 | 15.28 | -2.62 | 12.66                | 24.00                  | -11.34                 |
|         | 6875                            | 185               | 11.67                       | 12.02 | 14.86 | -2.62 | 12.24                | 24.00                  | -11.76                 |
|         | 6895                            | 189               | 11.81                       | 11.45 | 14.64 | -2.66 | 11.98                | 24.00                  | -12.02                 |
| UNII-8  | 6995                            | 209               | 12.24                       | 11.23 | 14.77 | -2.66 | 12.11                | 24.00                  | -11.89                 |
|         | 7115                            | 233               | 6.75                        | 5.74  | 9.28  | -2.66 | 6.62                 | 24.00                  | -17.38                 |

### Table 7-3. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power

|        | 6GHz WIFI (40MHz 802.11be MIMO) |            |                             |       |       |                      |                        |                        |        |
|--------|---------------------------------|------------|-----------------------------|-------|-------|----------------------|------------------------|------------------------|--------|
| Band   | Freq [MHz]                      | z] Channel | Avg. Conducted Powers [dBm] |       | Gain  | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |        |
|        |                                 |            | ANT1                        | ANT2  | MIMO  | [аві]                |                        |                        |        |
|        | 5965                            | 3          | 14.37                       | 14.21 | 17.30 | -4.34                | 12.96                  | 24.00                  | -11.04 |
|        | 6165                            | 43         | 14.28                       | 13.82 | 17.07 | -4.02                | 13.05                  | 24.00                  | -10.95 |
| UNII-5 | 6285                            | 67         | 14.63                       | 13.45 | 17.09 | -5.26                | 11.83                  | 24.00                  | -12.17 |
|        | 6405                            | 91         | 14.82                       | 14.08 | 17.48 | -6.81                | 10.67                  | 24.00                  | -13.33 |
|        | 6445                            | 99         | 14.71                       | 13.84 | 17.31 | -6.81                | 10.50                  | 24.00                  | -13.50 |
| UNII-6 | 6485                            | 107        | 13.42                       | 14.63 | 17.08 | -7.69                | 9.39                   | 24.00                  | -14.61 |
|        | 6525                            | 115        | 13.52                       | 14.43 | 17.01 | -7.69                | 9.32                   | 24.00                  | -14.68 |
|        | 6565                            | 123        | 14.02                       | 14.73 | 17.40 | -7.69                | 9.71                   | 24.00                  | -14.29 |
|        | 6685                            | 147        | 13.83                       | 14.32 | 17.09 | -8.10                | 8.99                   | 24.00                  | -15.01 |
| UNII-7 | 6725                            | 155        | 13.72                       | 14.02 | 16.88 | -8.09                | 8.79                   | 24.00                  | -15.21 |
|        | 6845                            | 179        | 13.34                       | 13.82 | 16.60 | -8.13                | 8.47                   | 24.00                  | -15.53 |
| UNII-8 | 6885                            | 187        | 13.74                       | 14.08 | 16.92 | -7.75                | 9.17                   | 24.00                  | -14.83 |
|        | 7005                            | 211        | 14.10                       | 13.21 | 16.69 | -7.74                | 8.95                   | 24.00                  | -15.05 |
|        | 7085                            | 227        | 14.32                       | 13.12 | 16.77 | -8.21                | 8.56                   | 24.00                  | -15.44 |

Table 7-4. MIMO 40MHz BW 802.11be (UNII) Maximum Conducted Output Power

| 6GHz WIFI (80MHz 802.11be MIMO) |            |            |                             |       |       | Directional Ant      |                        |                        |        |
|---------------------------------|------------|------------|-----------------------------|-------|-------|----------------------|------------------------|------------------------|--------|
| Band                            | Freq [MHz] | z] Channel | Avg. Conducted Powers [dBm] |       | Gain  | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |        |
|                                 |            |            | ANT1                        | ANT2  | MIMO  | [αΒι]                |                        |                        |        |
|                                 | 5985       | 7          | 14.21                       | 14.15 | 17.19 | -4.20                | 12.99                  | 24.00                  | -11.01 |
|                                 | 6145       | 39         | 14.21                       | 13.51 | 16.88 | -4.02                | 12.86                  | 24.00                  | -11.14 |
| UNII-5                          | 6305       | 71         | 13.23                       | 14.25 | 16.78 | -5.26                | 11.52                  | 24.00                  | -12.48 |
|                                 | 6385       | 87         | 14.11                       | 14.64 | 17.39 | -5.58                | 11.81                  | 24.00                  | -12.19 |
| JNII-6                          | 6465       | 103        | 13.73                       | 14.52 | 17.15 | -6.81                | 10.34                  | 24.00                  | -13.66 |
|                                 | 6545       | 119        | 13.94                       | 14.45 | 17.21 | -7.69                | 9.52                   | 24.00                  | -14.48 |
|                                 | 6705       | 151        | 14.05                       | 14.04 | 17.06 | -8.10                | 8.96                   | 24.00                  | -15.04 |
| UNII-7                          | 6785       | 167        | 13.68                       | 13.56 | 16.63 | -8.13                | 8.50                   | 24.00                  | -15.50 |
|                                 | 6865       | 183        | 13.51                       | 13.71 | 16.62 | -7.75                | 8.87                   | 24.00                  | -15.13 |
|                                 | 6945       | 199        | 13.94                       | 13.73 | 16.85 | -7.75                | 9.10                   | 24.00                  | -14.90 |
| UNII-8                          | 7025       | 215        | 14.69                       | 13.28 | 17.05 | -7.74                | 9.31                   | 24.00                  | -14.69 |

Table 7-5. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) | Approved by:<br>Technical Manager |
|--------------------------------------|------------------------|--|-----------------------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dega 42 of 126                    |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 42 01 120                    |
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|        |                         | 6GHz WIFI | (160MHz 802.11 | oe MIMO)        |         | Directional Ant |                      |                        |                        |  |
|--------|-------------------------|-----------|----------------|-----------------|---------|-----------------|----------------------|------------------------|------------------------|--|
| Band   | nd Freq [MHz] Channel A |           | Avg. C         | onducted Powers | s (dBm) | Gain            | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |  |
|        |                         |           | ANT1           | ANT2            | MIMO    | [dBi]           |                      |                        |                        |  |
|        | 6025                    | 15        | 12.94          | 13.15           | 16.06   | -4.20           | 11.86                | 24.00                  | -12.14                 |  |
| UNII-5 | 6185                    | 47        | 13.11          | 13.29           | 16.21   | -4.05           | 12.16                | 24.00                  | -11.84                 |  |
|        | 6345                    | 79        | 12.89          | 13.53           | 16.23   | -5.58           | 10.65                | 24.00                  | -13.35                 |  |
| UNII-6 | 6505                    | 111       | 12.95          | 13.54           | 16.27   | -7.69           | 8.58                 | 24.00                  | -15.42                 |  |
|        | 6665                    | 143       | 13.02          | 13.19           | 16.12   | -8.10           | 8.02                 | 24.00                  | -15.98                 |  |
| UNII-7 | 6825                    | 175       | 13.03          | 13.09           | 16.07   | -8.13           | 7.94                 | 24.00                  | -16.06                 |  |
| UNII-8 | 6985                    | 207       | 13.41          | 12.63           | 16.05   | -7.74           | 8.31                 | 24.00                  | -15.69                 |  |

Table 7-6. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power

|        |            | 6GHz WIFI | (320MHz 802.11t | oe MIMO)              |       | Directional Ant |                      |                        |                        |
|--------|------------|-----------|-----------------|-----------------------|-------|-----------------|----------------------|------------------------|------------------------|
| Band   | Freq [MHz] | Channel   | Avg. C          | Avg. Conducted Powers |       | Gain            | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|        | -          |           | ANT1            | ANT2                  | MIMO  | [aBi]           |                      |                        |                        |
| UNII-5 | 6105       | 31        | 13.81           | 12.74                 | 16.32 | -4.02           | 12.30                | 24.00                  | -11.70                 |
| UNII-5 | 6265       | 63        | 13.32           | 13.83                 | 16.59 | -4.05           | 12.54                | 24.00                  | -11.46                 |
| UNII-6 | 6425       | 95        | 13.12           | 13.52                 | 16.33 | -6.81           | 9.52                 | 24.00                  | -14.48                 |
| UNII-7 | 6585       | 127       | 13.25           | 13.03                 | 16.15 | -8.49           | 7.66                 | 24.00                  | -16.34                 |
| UNII-7 | 6745       | 159       | 13.31           | 12.86                 | 16.10 | -8.09           | 8.01                 | 24.00                  | -15.99                 |
| UNII-8 | 6905       | 191       | 13.34           | 13.98                 | 16.68 | -7.75           | 8.93                 | 24.00                  | -15.07                 |

Table 7-7. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power

|   |       |             |         |          |       |       | Average Conduc | ted Power (dBm) |       |       |                |             |               |                |
|---|-------|-------------|---------|----------|-------|-------|----------------|-----------------|-------|-------|----------------|-------------|---------------|----------------|
|   | Dond  | Eron [Mila] | Channel | Tanaa    |       |       | RU li          | ndex            |       |       | Dir. Ant. Gain | Max e.i.r.p | e.i.r.p Limit | e.i.r.p Margin |
|   | Dallu | ried[muz]   | Channel | Tones    |       | 90    |                |                 | 91    |       | (dBi)          | [dBm]       | [dBm]         | [dB]           |
| ₽ |       |             |         |          | ANT1  | ANT2  | MIMO           | ANT1            | ANT2  | MIMO  |                |             |               |                |
| ŧ | 5     | 6145        | 39      | 242+484T | 14.85 | 13.56 | 17.26          | 14.81           | 13.40 | 17.17 | -4.02          | 13.2        | 24.0          | -10.76         |
| 6 | 6     | 6465        | 103     | 242+484T | 14.21 | 14.84 | 17.55          | 14.31           | 14.69 | 17.51 | -6.81          | 10.7        | 24.0          | -13.26         |
| 8 | 7     | 6705        | 151     | 242+484T | 14.11 | 13.88 | 17.01          | 14.23           | 13.77 | 17.02 | -8.10          | 8.9         | 24.0          | -15.08         |
|   | 8     | 6945        | 199     | 242+484T | 14.41 | 13.73 | 17.09          | 14.67           | 13.97 | 17.34 | -7.75          | 9.6         | 24.0          | -14.41         |

Table 7-8. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured

|       |      |            |         |          |       |       | Average Conduc | ted Power (dBm) |       |       |                |             | e i r n l imit |                |
|-------|------|------------|---------|----------|-------|-------|----------------|-----------------|-------|-------|----------------|-------------|----------------|----------------|
| Se la | Band | Freq [MHz] | Channel | Tones    |       |       | RU I           | ndex            |       |       | Dir. Ant. Gain | Max e.i.r.p | e.i.r.p Limit  | e.i.r.p Margin |
| N     |      |            |         |          |       | 94    |                |                 | 95    |       | [dBi]          | [dBm]       | [dBm]          | [dB]           |
| Ξ.    |      |            |         |          | ANT1  | ANT2  | MIMO           | ANT1            | ANT2  | MIMO  |                |             |                |                |
| Σ     | 5    | 6185       | 47      | 996+484T | 13.65 | 13.77 | 16.72          | 13.65           | 13.27 | 16.47 | -4.05          | 12.7        | 24.0           | -11.33         |
| 60    | 6    | 6505       | 111     | 996+484T | 12.74 | 13.45 | 16.12          | 12.87           | 13.12 | 16.01 | -7.69          | 8.4         | 24.0           | -15.57         |
| -     | 7    | 6665       | 143     | 996+484T | 13.32 | 13.43 | 16.39          | 13.26           | 12.89 | 16.09 | -8.10          | 8.3         | 24.0           | -15.71         |
|       |      | 6005       | 007     |          | 40.00 |       | 4.6.45         |                 |       |       |                |             | 010            | 40.00          |

Table 7-9. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured

| _ |      |            |         |              |       |       | Average Conduc | ted Power (dBm) |       |       |       |             |               |                |
|---|------|------------|---------|--------------|-------|-------|----------------|-----------------|-------|-------|-------|-------------|---------------|----------------|
| ž | Band | Freg [MHz] | Channel | Tones        |       |       | RU II          | ndex            | dex   |       |       | Max e.i.r.p | e.i.r.p Limit | e.i.r.p Margin |
| N |      |            |         |              |       | 96    |                |                 | 99    |       | [dBi] | [dBm]       | [dBm]         | [dB]           |
| Î |      |            |         |              | ANT1  | ANT2  | MIMO           | ANT1            | ANT2  | MIMO  |       |             |               |                |
| ≥ | 5    | 6185       | 47      | 996+484+242T | 13.82 | 13.63 | 16.74          | 13.79           | 13.45 | 16.63 | -4.05 | 12.7        | 24.0          | -11.31         |
| 3 | 6    | 6505       | 111     | 996+484+242T | 12.88 | 13.76 | 16.35          | 13.01           | 13.52 | 16.28 | -7.69 | 8.7         | 24.0          | -15.34         |
| ÷ | 7    | 6665       | 143     | 996+484+242T | 13.36 | 13.44 | 16.41          | 13.38           | 13.32 | 16.36 | -8.10 | 8.3         | 24.0          | -15.69         |
|   | 8    | 6985       | 207     | 996+484+242T | 13.86 | 11.94 | 16.02          | 13.84           | 11.95 | 16.01 | -8.10 | 7.9         | 24.0          | -16.08         |

Table 7-10. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured

| ×        | David | Free [Mile] | Observal | T          |       |       | Average Conduc<br>Punctu | ted Power (dBm)<br>re Case |       |       | Dir. Ant. Gain | Max e.i.r.p | e.i.r.p Limit | e.i.r.p Margin |
|----------|-------|-------------|----------|------------|-------|-------|--------------------------|----------------------------|-------|-------|----------------|-------------|---------------|----------------|
|          | Band  | Freq[MHZ]   | Channel  | Tones      |       | 00100 |                          |                            | 00103 |       | (dBi)          | [dBm]       | [dBm]         | [dB]           |
| Ŧ        |       |             |          |            | ANT1  | ANT2  | MIMO                     | ANT1                       | ANT2  | MIMO  |                |             |               |                |
| Σ        | 5     | 6105        | 31       | 3x996+484T | 13.57 | 12.36 | 16.02                    | 13.59                      | 12.32 | 16.01 | -4.02          | 12.0        | 24.0          | -12.00         |
| <u>o</u> | 6     | 6425        | 95       | 3x996+484T | 12.98 | 13.16 | 16.08                    | 13.05                      | 13.00 | 16.04 | -6.81          | 9.3         | 24.0          | -14.73         |
| 8        | 7     | 6585        | 127      | 3x996+484T | 13.68 | 13.61 | 16.66                    | 13.87                      | 13.51 | 16.70 | -8.49          | 8.2         | 24.0          | -15.79         |
|          | 8     | 6905        | 191      | 3x996+484T | 14.02 | 13.77 | 16.91                    | 13.82                      | 14.03 | 16.94 | -7.75          | 9.2         | 24.0          | -14.81         |

Table 7-11. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

| ×        |      |            |         | _      |       |       | Average Conduc<br>Punctu | ted Power (dBm)<br>re Case |       |       | Dir. Ant. Gain | Max e.i.r.p | e.i.r.p Limit | e.i.r.p Margin |
|----------|------|------------|---------|--------|-------|-------|--------------------------|----------------------------|-------|-------|----------------|-------------|---------------|----------------|
| <u> </u> | Band | Freq [MHz] | Channel | Tones  |       | 00104 |                          |                            | 01104 |       | (dBi)          | [dBm]       | [dBm]         | [dB]           |
| Ŧ        |      |            |         |        | ANT1  | ANT2  | MIMO                     | ANT1                       | ANT2  | MIMO  |                |             |               |                |
| Σ        | 5    | 6105       | 31      | 3x996T | 14.28 | 12.76 | 16.60                    | 14.12                      | 12.53 | 16.41 | -4.02          | 12.6        | 24.0          | -11.42         |
| <u> </u> | 6    | 6425       | 95      | 3x996T | 13.20 | 13.62 | 16.43                    | 13.22                      | 13.38 | 16.31 | -6.81          | 9.6         | 24.0          | -14.38         |
| 8        | 7    | 6585       | 127     | 3x996T | 13.25 | 13.23 | 16.25                    | 13.56                      | 12.99 | 16.29 | -8.49          | 7.8         | 24.0          | -16.20         |
|          | 8    | 6905       | 191     | 3x996T | 13.84 | 13.05 | 16.47                    | 13.68                      | 13.25 | 16.48 | -7.75          | 8.7         | 24.0          | -15.27         |

Table 7-12. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) | Approved by:<br>Technical Manager |
|--------------------------------------|------------------------|--|-----------------------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dage 42 of 106                    |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 43 01 120                    |
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|    |      |              |          |            |       |       | Average Conduc | ted Power (dBm) |       |       |                |             |               |                |
|----|------|--------------|----------|------------|-------|-------|----------------|-----------------|-------|-------|----------------|-------------|---------------|----------------|
| >  | Dend | Enco [balled | Observal | Terres     |       |       | Punctu         | re Case         |       |       | Dir. Ant. Gain | Max e.i.r.p | e.i.r.p Limit | e.i.r.p Margin |
|    | Band | Freq[MHZ]    | Channel  | rones      |       | 00105 |                |                 | 01106 |       | [dBi]          | [dBm]       | [dBm]         | [dB]           |
| £  |      |              |          |            | ANT1  | ANT2  | MIMO           | ANT1            | ANT2  | MIMO  |                |             |               |                |
| Σ  | 5    | 6105         | 31       | 2x996+484T | 14.27 | 12.91 | 16.65          | 14.26           | 12.73 | 16.57 | -4.02          | 12.6        | 24.0          | -11.37         |
| 2  | 6    | 6425         | 95       | 2x996+484T | 13.33 | 13.73 | 16.54          | 13.31           | 13.55 | 16.44 | -6.81          | 9.7         | 24.0          | -14.27         |
| 33 | 7    | 6585         | 127      | 2x996+484T | 13.39 | 13.41 | 16.41          | 13.54           | 13.13 | 16.35 | -8.49          | 7.9         | 24.0          | -16.08         |
|    | 8    | 6905         | 191      | 2x996+484T | 13.89 | 13.44 | 16.68          | 13.77           | 13.65 | 16.72 | -7.75          | 9.0         | 24.0          | -15.03         |
|    |      |              |          |            |       |       |                |                 | -     | -     |                |             |               | -              |

#### Table 7-13. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured

#### Sample MIMO Calculation:

At 5935MHz in 802.11be (20MHz BW) mode, the average conducted output power was measured to be 3.73 dBm for Antenna-1 and 2.75 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(3.73 dBm + 2.75 dBm) = (2.36 mW + 1.88 mW) = 4.25 mW = 6.28 dBm

#### Sample Directional Gain Calculation:

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.

Directional gain = 10 log[(10<sup>G1/20</sup> + 10<sup>G2/20</sup> + ... + 10<sup>GN/20</sup>)<sup>2</sup> / N<sub>ANT</sub>] dBi

#### Sample e.i.r.p. Calculation:

At 5935MHz in 802.11be (20MHz BW) mode, the average MIMO conducted power was calculated to be 6.28 dBm with directional gain of -4.34 dBi.

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

6.28 dBm + -4.34 dBi = 1.94 dBm

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|--------------------------------------|------------------------|--|-----------------------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dage 11 of 106                    |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 44 01 120                    |
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## 7.4 Maximum Power Spectral Density

### **Test Overview and Limit**

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013, was used to measure the power spectral density for 802.11a/ax.

In the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band. For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm/MHz e.i.r.p.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.3.2.2 ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

#### **Test Settings**

- 1. Analyzer was set to the center frequency of the UNII channel under investigation.
- 2. Span was set to encompass the entire emission bandwidth of the signal.
- 3. RBW = 1MHz
- 4. VBW = 3MHz
- 5. Number of sweep points  $\geq 2 \times (\text{span/RBW})$
- 6. Sweep time = auto
- 7. Detector = power averaging (RMS)
- 8. Trigger was set to free run for all modes.
- 9. Trace was averaged over 100 sweeps.
- 10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

#### 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

All cases were investigated; a subset of the taken plots were included to represent relevant settings and measurements.

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) | Approved by:<br>Technical Manager |
|--------------------------------------|------------------------|--|-----------------------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dago 45 of 106                    |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 45 01 126                    |
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# **MIMO Power Spectral Density Measurements**

|            | Frequency<br>[MHz] | Channel | 802.11<br>MODE | Antenna-1<br>Power Density<br>[dBm] | Antenna-2<br>Power Density<br>[dBm] | Antenna-1 Gain<br>[dBi] | Antenna-2 Gain<br>[dBi] | Summed MIMO<br>Power Density<br>[dBm/MHz] | Directional Gain<br>[dBi] | e.i.r.p Density<br>[dBm/MHz] | Max EIRP<br>Density<br>[dBm/MHz] | Margin<br>[dB] |
|------------|--------------------|---------|----------------|-------------------------------------|-------------------------------------|-------------------------|-------------------------|---|---------------------------|------------------------------|----------------------------------|----------------|
|            | 6175               | 45      | be (20MHz)     | -0.08                               | -0.73                               | -5.99                   | -8.27                   | 2.62                                      | -4.05                     | -1.43                        | -1                               | -0.43          |
|            | 6165               | 43      | be (40MHz)     | -0.45                               | -1.50                               | -6.17                   | -7.98                   | 2.07                                      | -4.02                     | -1.95                        | -1                               | -0.95          |
| Band 5     | 6145               | 39      | be (80MHz)     | -2.94                               | -4.46                               | -6.17                   | -7.98                   | -0.62                                     | -4.02                     | -4.64                        | -1                               | -3.64          |
| Dana 5     | 6185               | 47      | be (160MHz)    | -7.19                               | -7.45                               | -5.99                   | -8.27                   | -4.31                                     | -4.05                     | -8.35                        | -1                               | -7.35          |
|            | 6105               | 31      | be (320MHz)    | -8.22                               | -9.33                               | -6.17                   | -7.98                   | -5.73                                     | -4.02                     | -9.75                        | -1                               | -8.75          |
|            | 6265               | 63      | be (320MHz)    | -8.53                               | -7.93                               | -5.99                   | -8.27                   | -5.21                                     | -4.05                     | -9.25                        | -1                               | -8.25          |
| Band 6     | 6475               | 105     | be (20MHz)     | 0.65                                | 1.77                                | -9.73                   | -11.80                  | 4.25                                      | -7.69                     | -3.44                        | -1                               | -2.44          |
|            | 6485               | 107     | be (40MHz)     | -0.91                               | 0.16                                | -9.73                   | -11.80                  | 2.67                                      | -7.69                     | -5.03                        | -1                               | -4.03          |
|            | 6465               | 103     | be (80MHz)     | -3.24                               | -2.70                               | -8.71                   | -11.10                  | 0.05                                      | -6.81                     | -6.76                        | -1                               | -5.76          |
|            | 6505               | 111     | be (160MHz)    | -6.46                               | -6.80                               | -9.73                   | -11.80                  | -3.61                                     | -7.69                     | -11.31                       | -1                               | -10.31         |
| Band 5/6/7 | 6425               | 95      | be (320MHz)    | -8.48                               | -7.94                               | -8.71                   | -11.10                  | -5.19                                     | -6.81                     | -12.00                       | -1                               | -11.00         |
|            | 6695               | 149     | be (20MHz)     | 1.14                                | 1.57                                | -9.74                   | -12.75                  | 4.37                                      | -8.10                     | -3.74                        | -1                               | -2.74          |
| Band 7     | 6725               | 155     | be (40MHz)     | -0.71                               | -0.53                               | -9.90                   | -12.50                  | 2.40                                      | -8.09                     | -5.70                        | -1                               | -4.70          |
| Danu 7     | 6705               | 151     | be (80MHz)     | -3.05                               | -2.69                               | -9.74                   | -12.75                  | 0.14                                      | -8.10                     | -7.96                        | -1                               | -6.96          |
|            | 6665               | 143     | be (160MHz)    | -7.22                               | -6.45                               | -9.74                   | -12.75                  | -3.81                                     | -8.10                     | -11.91                       | -1                               | -10.91         |
| Band 6/7   | 6585               | 127     | be (320MHz)    | -9.14                               | -8.51                               | -10.60                  | -12.50                  | -5.80                                     | -8.49                     | -14.29                       | -1                               | -13.29         |
| Band 7/8   | 6825               | 175     | be (320MHz)    | -9.14                               | -8.68                               | -9.96                   | -12.50                  | -5.90                                     | -8.13                     | -14.02                       | -1                               | -13.02         |
|            | 6995               | 209     | be (20MHz)     | 0.74                                | 0.15                                | -9.82                   | -11.80                  | 3.46                                      | -7.74                     | -4.28                        | -1                               | -3.28          |
| Band 9     | 7005               | 211     | be (40MHz)     | -0.05                               | -0.88                               | -9.82                   | -11.80                  | 2.57                                      | -7.74                     | -5.18                        | -1                               | -4.18          |
| Dallu o    | 7025               | 215     | be (80MHz)     | -2.78                               | -3.85                               | -9.82                   | -11.80                  | -0.27                                     | -7.74                     | -8.02                        | -1                               | -7.02          |
|            | 6985               | 207     | be (160MHz)    | -6.69                               | -6.85                               | -9.82                   | -11.80                  | -3.75                                     | -7.74                     | -11.50                       | -1                               | -10.50         |
| Band 7/8   | 6905               | 191     | be (320MHz)    | -8.86                               | -7.91                               | -9.92                   | -11.70                  | -5.35                                     | -7.75                     | -13.10                       | -1                               | -12.10         |

Table 7-14. MIMO e.i.r.p. Conducted Power Spectral Density Measurements

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |  |  |
|--------------------------------------|------------------------|-----------------------------------|------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga 46 of 106   |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 40 01 120   |  |  |
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### MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 5)



Plot 7-45. Power Spectral Density MIMO ANT1 (20MHz 802.11be (UNII Band 5) - Ch. 45)



Plot 7-46. Power Spectral Density MIMO ANT1 (40MHz 802.11be (UNII Band 5) - Ch. 43)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                   |  |
|--------------------------------------|------------------------|--|-------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dega 47 of 106    |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 47 01 120    |  |
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| 🔤 Ke           | ysight Spe        | trum Analyzer -  | - Swept SA      |                           |  |                 |  |                |  |                     |                   |                                      |
|----------------|-------------------|------------------|-----------------|---------------------------|--|-----------------|--|----------------|--|---------------------|-------------------|--------------------------------------|
| <b>l,XI</b> R  | L                 | RF 5             | 0Ω AC           | CORREC                    | SEI  | ISE:INT         | #Avg Typ   | ALIGN AUTO     | 03:42:25 A                             | M Dec 30, 2023      | Fr                | equency                              |
| 10 di          | 3/div             | Ref 20.0         | 0 dBm           | PNO: Fast ↔<br>IFGain:Low | Atten: 30                                      | dB              | AvgiHold   | . 100/100<br>M | lkr1 6.18<br>-2.9                      | 0 8 GHz<br>36 dBm   |                   | Auto Tune                            |
| 10.0           |                   |                  |                 |                           |  |                 | <b>1</b>   |                |  |                     | C<br>6.145        | <b>enter Freq</b><br>5000000 GHz     |
| 0.00<br>-10.0  |                   |                  |                 | from Mary                 | ⊷ĸŧŧ₽₩∽₩ <sup>₽</sup> ₹₽₽₩₽₩₽ <sup>₽</sup> ₩₩ঀ | paral-frafid.tw | and have a second s |                |  |                     | 6.045             | Start Freq<br>5000000 GHz            |
| -20.0<br>-30.0 |                   |                  |                 |                           |  |                 |  |                |  |                     | 6.245             | Stop Freq<br>5000000 GHz             |
| -40.0<br>-50.0 | an faile from the | nguntur manufine | ware an and the | ý                         |  |                 |  | My have        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | franson wy fwysdag. | 20<br><u>Auto</u> | <b>CF Step</b><br>.000000 MHz<br>Man |
| -60.0          |                   |                  |                 |                           |  |                 |  |                |  |                     | F                 | F <b>req Offset</b><br>0 Hz          |
| -70.0          |                   |                  |                 |                           |  |                 |  |                |  |                     | ;                 | Scale Type                           |
| Cen<br>#Do     | ter 6.1           | 450 GHz          |                 | #\/B\                     | M 2 0 MH-                                      |                 |  | Duroon         | Span 2                                 | 00.0 MHz            | Log               | Lin                                  |
| #Re            | SEW               |                  |                 | #VB                       | N 3.0 MHZ                                      |                 |  | sweep          | 1.000 ms (                             | TOOT pts)           |                   |                                      |
| MSG 🤇          | File <            | SavePlot.pl      | ng> saved       |                           |  |                 |  | STAT           | US                                     |                     |                   |                                      |





Plot 7-48. Power Spectral Density MIMO ANT1 (160MHz 802.11be (UNII Band 5) - Ch. 47)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |  |
|--------------------------------------|------------------------|--|------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dage 49 of 126   |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 48 of 126   |  |  |
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| 🧱 Keysigh | t Spectrum Analyzer - Swept SA |                             |  |                      |  |                      |                                 |                   |                   |                                 |
|-----------|--------------------------------|-----------------------------|--|----------------------|--|----------------------|---------------------------------|-------------------|-------------------|---------------------------------|
| Center    | RF 50 Ω AC                     |                             | SENS   | E:INT                | #Avg Typ   | ALIGN AUTO<br>e: RMS | 04:06:25 Al<br>TRAC             | Dec 30, 2023      | Fr                | equency                         |
| Genter    |                                | PNO: Fast ++<br>IFGain:Low  | <ul> <li>Trig: Free I<br/>Atten: 30 d</li> </ul>   | Run<br>IB            | Avg Hold:  | : 100/100            | TYF<br>DE                       |                   |                   |                                 |
| 10 dB/di  | v Ref 20.00 dBm                |                             |  |                      |  | N                    | 1kr1 6.10<br>-8.2               | 2 6 GHz<br>15 dBm |                   | Auto Tune                       |
| 10.0      |                                |                             |  |                      |  |                      |                                 |                   | <b>(</b><br>6.10  | <b>Senter Freq</b>              |
| 0.00      |                                | And and all and all and and | And a state of the | ا<br>مىمىيەر بىلىمىر | and a start of the |                      |                                 |                   | 5.70              | Start Freq<br>5000000 GHz       |
| -20.0     |                                |                             |  |                      |  |                      |                                 |                   | 6.50              | <b>Stop Freq</b><br>5000000 GHz |
| -40.0     |                                | <b>9</b> ,, <b>9</b> ,      |  |                      |  | -                    | Pryshaper and the second second | and a strange     | 80<br><u>Auto</u> | CF Step<br>0.000000 MHz<br>Man  |
| -60.0     |                                |                             |  |                      |  |                      |                                 |                   |                   | F <b>req Offset</b><br>0 Hz     |
| -70.0     |                                |                             |  |                      |  |                      |                                 |                   |                   | Scale Type                      |
| Center    | 6.1050 GHz                     |                             |  |                      |  | _                    | Span 8                          | 00.0 MHz          | Log               | Lin                             |
| #Res B    | W 1.0 MHz                      | #VBN                        | 73.0 MHz*  |                      |  | sweep                | 1.333 ms (                      | 1001 pts)         |                   |                                 |
| MSG       |                                |                             |  |                      |  | STAT                 | US                              |                   |                   |                                 |



Plot 7-49. Power Spectral Density MIMO ANT1 (320MHz 802.11be (UNII Band 5) - Ch. 31)

Plot 7-50. Power Spectral Density MIMO ANT1 (320MHz 802.11be (UNII Band 5) - Ch. 63)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |  |
|--------------------------------------|------------------------|--|------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Degra 40 of 196  |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 49 01 126   |  |  |
| © 2024 ELEMENT                       |                        |  | V11.1 08/28/2023 |  |  |



### MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 6)



Plot 7-51. Power Spectral Density MIMO ANT1 (20MHz 802.11be (UNII Band 6) – Ch. 105)



Plot 7-52. Power Spectral Density MIMO ANT1 (40MHz 802.11be (UNII Band 6) - Ch. 107)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |
|--------------------------------------|------------------------|--|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dega 50 of 106   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 50 of 126   |  |
| © 2024 ELEMENT                       |                        |  | V11 1 08/28/2023 |  |



| 🔤 Keysight S     | pectrum Analyzer - Swep | ot SA               |   |                       |          |            |                     |                   |                          | e X                     |
|------------------|-------------------------|---------------------|---|-----------------------|----------|------------|---------------------|-------------------|--------------------------|-------------------------|
| (X) RL<br>Center | RF 50 Ω                 |                     | SE  | NSE:INT               | #Ava Tvp | ALIGN AUTO | 03:43:05 AN<br>TRAC | Dec 30, 2023      | Frequer                  | ncy                     |
| Center           | -Teq 0.405000           | PNO: Fa<br>IFGain:L | ast +++ Trig: Fre<br>ow Atten: 3  | e Run<br>) dB         | Avg Hold | : 100/100  | TYP<br>DE           |                   | Auto                     | Tune                    |
| 10 dB/div<br>Log | Ref 20.00 dl            | Bm                  |   |                       |          |            | -3.2                | 35 dBm            |                          |                         |
| 10.0             |                         |                     |   | [                     |          |            |                     |                   | Cente                    | r Freq                  |
| 0.00             |                         |                     | 1   |                       |          |            |                     |                   | 0.4000000                | 00 8112                 |
| 10.0             |                         |                     | and the second se | ) and a second second | ware     |            |                     |                   | Star<br>6.3650000        | <b>t Freq</b><br>00 GHz |
| -10.0            |                         |                     |   |                       |          |            |                     |                   |                          |                         |
| -20.0            |                         |                     |   |                       |          |            |                     |                   | <b>Stoj</b><br>6.5650000 | <b>p Freq</b><br>00 GHz |
| -30.0            |                         | h                   |   |                       |          | ų          |                     |                   | CI                       | F Step                  |
| -40.0            |                         | month               |   |                       |          | Thomas     | mangan pangan ang p | alayterast Marine | 20.0000<br><u>Auto</u>   | 00 MHz<br>Man           |
| -50.0            |                         |                     |   |                       |          |            |                     |                   | Freq                     | Offeet                  |
| -60.0            |                         |                     |   |                       |          |            |                     |                   | Treq                     | 0 Hz                    |
| -70.0            |                         |                     |   |                       |          |            |                     |                   | Scale                    | е Туре                  |
| Center 6         | .4650 GHz               |                     |   |                       |          |            | Span 2              | 00.0 MHz          | Log                      | Lin                     |
| #Res BW          | 1.0 MHz                 | #                   | VBW 3.0 MHz   | *                     |          | Sweep      | 1.000 ms (          | 1001 pts)         |                          |                         |
| MSG              |                         |                     |   |                       |          | STATU      | JS                  |                   |                          |                         |





Plot 7-54. Power Spectral Density MIMO ANT1 (160MHz 802.11be (UNII Band 6) - Ch. 111)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |  |
|--------------------------------------|------------------------|--|------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Daga E1 of 196   |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 51 of 126   |  |  |
| © 2024 ELEMENT                       | •                      |  | V11.1 08/28/2023 |  |  |



| 🔤 Keysig             | ght Spectrum Analyzer - Swept SA  |   |              |  |               |                          |   |   |
|----------------------|---|---|--------------|--|---------------|--------------------------|---|---|
| l <mark>xi</mark> Rl | RF 50 Ω AC  | CORREC  | SENSE:INT    | #Avg Typ   | ALIGN AUTO    | 04:08:19 AM I<br>TRACE   | Dec 30, 2023                            | Frequency                                   |
| 10 dB/0              | div Ref 20.00 dBm   | PNO: Fast +++<br>IFGain:Low   | Atten: 30 dB | Avginoid   | M             | kr1 6.411<br>-8.48       | 4 GHz<br>1 dBm                          | Auto Tune                                   |
| 10.0                 |   |   |              |  |               |                          |   | Center Freq<br>6.425000000 GHz              |
| -10.0                |   | hand the state of |              | and a second and a second a s |               |                          |   | Start Freq<br>6.025000000 GHz               |
| -20.0<br>-30.0       |   |   |              |  |               |                          |   | <b>Stop Freq</b><br>6.825000000 GHz         |
| -40.0                | Later land mind a fragment of the state of the |   |              |  | Uurundeseeste | A44.6495                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | CF Step<br>80.000000 MHz<br><u>Auto</u> Man |
| -60.0                |   |   |              |  |               |                          |   | <b>Freq Offset</b><br>0 Hz                  |
| Cente                | or 6 4250 CHz   |   |              |  |               | Snap 20                  | 0 0 MH <del>2</del>                     | Scale Type                                  |
| #Res                 | BW 1.0 MHz  | #VBW  | 3.0 MHz*     |  | Sweep '       | 5 spar 80<br>1.333 ms (1 | 001 pts)                                |   |
| MSG                  |   |   |              |  | STATU         | s                        |   |   |
|                      |   |   |              |  | OINTO         | -                        |   |   |

Plot 7-55. Power Spectral Density MIMO ANT1 (320MHz 802.11be (UNII Band 5/6/7) - Ch. 95)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |
|--------------------------------------|------------------------|-----------------------------------|------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Dege 52 of 106   |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 52 01 120   |
| © 2024 ELEMENT                       |                        |                                   | V11.1 08/28/2023 |



### MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 7)



Plot 7-56. Power Spectral Density MIMO ANT1 (20MHz 802.11be (UNII Band 7) - Ch. 149)



Plot 7-57. Power Spectral Density MIMO ANT1 (40MHz 802.11be (UNII Band 7) - Ch. 155)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                   |  |
|--------------------------------------|------------------------|-----------------------------------|-------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga 52 of 126    |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 53 of 126    |  |
| © 2024 ELEMENT                       |                        |                                   | 1/11 1 08/28/2023 |  |



| Keysight Spectrum Analyzer - Swept SA |  |  |                             |  | - d <u>×</u>                        |
|---------------------------------------|--|--|-----------------------------|--|-------------------------------------|
| LXIRL RF 50Ω AC CO                    | DRREC S                                    | ENSE:INT #Avg Ty                                   | ALIGN AUTO 03:47<br>pe: RMS | :26 AM Dec 30, 2023<br>TRACE 1 2 3 4 5 6   | Frequency                           |
|                                       | PNO: Fast ↔ Trig: Fr<br>FGain:Low Atten: 5 | ee Run Avg Holo<br>30 dB                           | Mkr1 6.                     | 671 8 GHz  | Auto Tune                           |
| 10 dB/div Ref 20.00 dBm               |  | •  | -                           | 3.051 dBm  |                                     |
| 10.0                                  |  |  |                             |  | Center Freq<br>6.705000000 GHz      |
| 0.00                                  | <b>∲</b> 1                                 |  |                             |  |                                     |
| -10.0                                 |  | an prainte and | 1                           |  | Start Freq<br>6.605000000 GHz       |
| -20.0                                 |  |  |                             |  | <b>Stop Freq</b><br>6.805000000 GHz |
| -40.0                                 | /  |  | N.                          |  | CF Step<br>20.000000 MHz            |
| -50.0                                 |  |  | ""It was a fundament        | and all and the state of the st | <u>Auto</u> Man                     |
| -60.0                                 |  |  |                             |  | Freq Offset<br>0 Hz                 |
| -70.0                                 |  |  |                             |  |                                     |
|                                       |  |  |                             |  | Scale Type                          |
| Center 6.7050 GHz<br>#Res BW 1.0 MHz  | #VBW 3.0 MH                                | Z*   | Spa<br>Sweep 1.000 r        | an 200.0 MHz<br>ns (1001 pts)  | Log <u>Lin</u>                      |
| MSG                                   |  |  | STATUS                      |  |                                     |





Plot 7-59. Power Spectral Density MIMO ANT1 (160MHz 802.11be (UNII Band 7) – Ch. 143)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |
|--------------------------------------|------------------------|-----------------------------------|------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga E4 of 196   |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 54 01 120   |
| © 2024 ELEMENT                       | •                      |                                   | V11.1 08/28/2023 |



| 🔤 Keysight Spectrum Analyzer - Swept SA |   |              |                        |  |                     | - d <u>×</u>                                |
|---|---|--------------|------------------------|--|---------------------|---|
| <b>LX</b> RL RF 50 Ω AC                 | CORREC  | SENSE:INT    | ALIGN<br>#Avg Type: RM | AUTO 04:09:26 AM   | Dec 30, 2023        | Frequency                                   |
| 10 dB/div Ref 20.00 dBm                 | PNO: Fast ↔<br>IFGain:Low   | Atten: 30 dB | Avg Hold: 100/1        | Mkr1 6.586<br>-9.13  | 6 GHz<br>9 dBm      | Auto Tune                                   |
| 10.0                                    |   |              |                        |  |                     | Center Freq<br>6.585000000 GHz              |
| -10.0                                   | part and a second se |              | Lawrence -             |  |                     | <b>Start Freq</b><br>6.185000000 GHz        |
| -20.0                                   |   |              |                        |  |                     | <b>Stop Freq</b><br>6.985000000 GHz         |
| -40.0                                   |   |              |                        | Winter and the second | weigen fingelijke   | CF Step<br>80.000000 MHz<br><u>Auto</u> Man |
| -60.0                                   |   |              |                        |  |                     | <b>Freq Offset</b><br>0 Hz                  |
| -70.0                                   |   |              |                        |  |                     | Scale Type                                  |
| Center 6.5850 GHz<br>#Res BW 1.0 MHz    | #VBW  | 3.0 MHz*     | Swe                    | Span 80<br>ep 1.333 ms (1  | 0.0 MHz<br>001 pts) | Log <u>Lin</u>                              |
| MSG                                     |   |              |                        | STATUS   |                     |   |





Plot 7-61. Power Spectral Density MIMO ANT1 (320MHz 802.11be (UNII Band 7/8) - Ch. 175)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager     |                  |
|--------------------------------------|------------------------|---------------------------------------|------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:                             | Dage EE of 196   |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                       | Page 55 01 126   |
| © 2024 ELEMENT                       | •                      | · · · · · · · · · · · · · · · · · · · | V11.1 08/28/2023 |



### MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 8)



Plot 7-62. Power Spectral Density MIMO ANT1 (20MHz 802.11be (UNII Band 8) - Ch. 209)



Plot 7-63. Power Spectral Density MIMO ANT1 (40MHz 802.11be (UNII Band 8) - Ch. 211)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |  |
|--------------------------------------|------------------------|-----------------------------------|------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga E6 of 106   |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 56 of 126   |  |
| © 2024 ELEMENT                       |                        |                                   | V11 1 08/28/2023 |  |









Plot 7-65. Power Spectral Density MIMO ANT1 (160MHz 802.11be (UNII Band 8) – Ch. 207)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |
|--------------------------------------|------------------------|-----------------------------------|------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga EZ of 106   |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 57 01 120   |
| © 2024 ELEMENT                       | •                      |                                   | V11.1 08/28/2023 |



| 🔤 Ke           | ysight Spe      | ctrum Analyzer - Swept SA  | ł                           |                             |           |                       |            |   |                                | - ē 🔀                                       |
|----------------|-----------------|--|-----------------------------|-----------------------------|-----------|-----------------------|------------|---|--------------------------------|---|
| <b>l,XI</b> R  | L               | RF 50 Ω A0   | C CORREC                    | SENS                        | E:INT     | #Avg Typ              | ALIGN AUTO | 04:11:06 AN<br>TRAC                     | 1Dec 30, 2023<br>E 1 2 3 4 5 6 | Frequency                                   |
|                |                 |  | PNO: Fast +++<br>IFGain:Low | Atten: 30 o                 | Run<br>IB | Avg Hold:             | : 100/100  | DE                                      |                                | Auto Tuno                                   |
| 10 dE          | B/div           | Ref 20.00 dBn  | n                           |                             |           |                       | Μ          | kr1 6.902<br>-8.80                      | 2 6 GHz<br>64 dBm              | AutoTune                                    |
| 10.0           |                 |  |                             |                             |           |                       |            |   |                                | Center Freq<br>6.905000000 GHz              |
| 0.00<br>-10.0  |                 |  | anapara ana mangana j       | and the second statement of | 1<br>     | ) harrow fraction and |            |   |                                | Start Freq<br>6.505000000 GHz               |
| -20.0<br>-30.0 |                 |  |                             |                             |           |                       |            |   |                                | <b>Stop Freq</b><br>7.305000000 GHz         |
| -40.0          | ******          | an and a start of the | "In a garlying"             |                             |           |                       |            | ĨĨĨĨŦŦŦŦŎŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ | ladionaynu migin               | CF Step<br>80.000000 MHz<br><u>Auto</u> Man |
| -60.0          |                 |  |                             |                             |           |                       |            |   |                                | <b>Freq Offset</b><br>0 Hz                  |
| -70.0          |                 |  |                             |                             |           |                       |            |   |                                | Scale Type                                  |
| Cen<br>#Re     | ter 6.9<br>s BW | 050 GHz<br>1.0 MHz   | #VBW                        | 3.0 MHz*                    |           |                       | Sweep      | Span 8<br>1.333 ms (                    | 00.0 MHz<br>1001 pts)          |   |
| MSG            |                 |  |                             |                             |           |                       | STAT       | JS                                      |                                |   |

Plot 7-66. Power Spectral Density MIMO ANT1 (320MHz 802.11be (UNII Band 7/8) - Ch. 191)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                  |
|--------------------------------------|------------------------|-----------------------------------|------------------|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Dega 59 of 196   |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 56 01 120   |
| © 2024 ELEMENT                       |                        |                                   | V11.1 08/28/2023 |



### MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 5)



Plot 7-67. Power Spectral Density MIMO ANT2 (20MHz 802.11be (UNII Band 5) - Ch. 45)



Plot 7-68. Power Spectral Density MIMO ANT2 (40MHz 802.11be (UNII Band 5) - Ch. 43)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                   |  |
|--------------------------------------|------------------------|-----------------------------------|-------------------|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Daga 50 of 106    |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 59 of 126    |  |
| © 2024 ELEMENT                       |                        |                                   | V/11 1 08/28/2023 |  |



| 🔤 Key          | /sight Spectrum Ar  | nalyzer - Swept SA          | 1                                     |                         |   |            |                |                      |  |                       |                                   |
|----------------|---|-----------------------------|---------------------------------------|-------------------------|---|------------|----------------|----------------------|--|-----------------------|-----------------------------------|
| <b>lxi</b> ri  | L RF  | 50 Ω AC                     | CORREC                                | SI<br>T-i F             | INSE:INT  | #Avg Typ   | ALIGN AUTO     | 03:50:31 AM          | 1 Dec 30, 2023<br>E <b>1 2 3 4 5</b> 6 | Frequ                 | ency                              |
| 10 dE          | 3/div <b>Ref</b>  | 20.00 dBn                   | PNO: Fast<br>IFGain:Lov               | Atten: 3                | 0 dB  | Avginoid   | . 100/100<br>M | kr1 6.147<br>-4.4    | 7 2 GHz<br>59 dBm                      | Au                    | ito Tune                          |
| 10.0           |   |                             |                                       |                         |   |            |                |                      |  | Cen<br>6.145000       | <b>ter Freq</b><br>0000 GHz       |
| 0.00<br>-10.0  |   |                             |                                       | กษุขณุณปนุกษณฑย่างได้กา | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | ana sama a |                |                      |  | <b>St</b><br>6.045000 | a <b>rt Freq</b><br>0000 GHz      |
| -20.0<br>-30.0 |   |                             |                                       |                         |   |            |                |                      |  | <b>St</b><br>6.245000 | o <b>p Freq</b><br>0000 GHz       |
| -40.0<br>-50.0 | and the state of the | hym yf hangroegen (hymenisg | N N N N N N N N N N N N N N N N N N N |                         |   |            | N. Allanna     |                      | ag by the second second                | 20.000<br><u>Auto</u> | <b>CF Step</b><br>0000 MHz<br>Man |
| -60.0          |   |                             |                                       |                         |   |            |                |                      |  | Fre                   | <b>q Offset</b><br>0 Hz           |
| -70.0          |   |                             |                                       |                         |   |            |                |                      |  | Sca                   | ale Type                          |
| Cen<br>#Re     | ter 6.1450 (<br>s BW 1.0 M  | GHz<br>Hz                   | #\                                    | /BW 3.0 MH;             | 2*  |            | Sweep          | Span 2<br>1.000 ms ( | 00.0 MHz<br>1001 pts)                  | Log                   | Lin                               |
| MSG            |   |                             |                                       |                         |   |            | STATU          | JS                   |  |                       |                                   |

Plot 7-69. Power Spectral Density MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39)



Plot 7-70. Power Spectral Density MIMO ANT2 (160MHz 802.11be (UNII Band 5) - Ch. 47)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) |                  |  |  |
|--------------------------------------|------------------------|--|------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Dege 60 of 106   |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 60 of 126   |  |  |
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Center 6.2650 GHz #Res BW 1.0 MHz

| 🔤 Key          | ysight Spe | ctrum Analyzer - Sw      | vept SA   |                          |           |               |                          |            |                    |  |                   |                                   |
|----------------|------------|--------------------------|---|--------------------------|-----------|---------------|--------------------------|------------|--------------------|--|-------------------|-----------------------------------|
| <b>lxi</b> Ri  | L          | RF 50 S                  | 2 AC C  | ORREC                    | SEN       | ISE:INT       | #Avg Typ                 | ALIGN AUTO | 04:12:14 A<br>TRAC | M Dec 30, 2023                                       | Fr                | equency                           |
| 10 dE          | B/div      | Ref 20.00                | ı<br>dBm  | PNO: Fast ←<br>FGain:Low | Atten: 30 | dB            | Avginoia                 | N          | lkr1 6.10<br>-9.3  | 1 0 GHz<br>33 dBm                                    |                   | Auto Tune                         |
| 10.0           |            |                          |   |                          |           |               |                          |            |                    |  | <b>6</b> .10      | <b>Center Freq</b><br>5000000 GHz |
| 0.00<br>-10.0  |            |                          |   |                          | warne and | 1<br>•••••••• | وساور معتار معارضه العمر |            |                    |  | 5.70              | Start Freq<br>5000000 GHz         |
| -20.0<br>-30.0 |            |                          |   |                          |           |               |                          |            |                    |  | 6.50              | <b>Stop Freq</b><br>5000000 GHz   |
| -40.0<br>-50.0 | -laborar   | affision-guiden-universe | anganang nang pangangang pangang pangan | /                        |           |               |                          | man        | -                  | )/###18-1-( <sup>-1</sup> 14/1-19 <sup>6</sup> 8-1-1 | 80<br><u>Auto</u> | CF Step<br>0.000000 MHz<br>Man    |
| -60.0          |            |                          |   |                          |           |               |                          |            |                    |  | ľ                 | Freq Offset<br>0 Hz               |
| -70.0          |            |                          |   |                          |           |               |                          |            |                    |  |                   | Scale Type                        |
| Cen            | ter 6.1    | 050 GHz                  |   | 40 (D)                   |           |               |                          | 0          | Span 8             | 00.0 MHz   | Log               | Lin                               |
| #Re            | SBW        | T.U MHZ                  |   | #VB                      | W 3.0 WHZ |               |                          | sweep      | 1.333 ms (         | TOUT pts)  |                   |                                   |
| MSG            |            |                          |   |                          |           |               |                          | STAT       | rus                |  |                   |                                   |



Plot 7-71. Power Spectral Density MIMO ANT2 (320MHz 802.11be (UNII Band 5) - Ch. 31)

Plot 7-72. Power Spectral Density MIMO ANT2 (320MHz 802.11be (UNII Band 5) - Ch. 63)

#VBW 3.0 MHz\*

Man

Lin

Freq Offset 0 Hz

Scale Type

<u>Auto</u>

Log

Span 800.0 MHz Sweep 1.333 ms (1001 pts)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                |  |  |
|--------------------------------------|------------------------|-----------------------------------|----------------|--|--|
| Test Report S/N: Test Dates:         |                        | EUT Type:                         | Dege 61 of 106 |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 61 01 126 |  |  |
| 2024 ELEMENT V11.1 08/28/2023        |                        |                                   |                |  |  |



### MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 6)



Plot 7-73. Power Spectral Density MIMO ANT2 (20MHz 802.11be (UNII Band 6) - Ch. 105)



Plot 7-74. Power Spectral Density MIMO ANT2 (40MHz 802.11be (UNII Band 6) - Ch. 107)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910       |             | MEASUREMENT REPORT<br>(Class II Permissive Change) | Approved by:<br>Technical Manager |  |  |
|--|-------------|--|-----------------------------------|--|--|
| Test Report S/N:                           | Test Dates: | EUT Type:  | Dega 62 of 126                    |  |  |
| 1M2312180128-06.A3L 12/15/2023 - 1/11/2023 |             | Portable Tablet                                    | Page 62 01 126                    |  |  |
|  |             |  |                                   |  |  |



| 🔤 Keysig        | ht Spectrum Analyzer - Swept  | SA                                     |                      |                   |   |   |
|-----------------|---|--|----------------------|-------------------|---|---|
| <b>lxi</b> RL   | RF 50 Ω   | AC CORREC                              | SENSE:INT            | ALIGN AUTO        | 03:51:03 AM Dec 30, 2023<br>TRACE 1 2 3 4 5 6 | Frequency                                   |
| 10 dB/c         | liv Ref 20.00 dB  | PNO: Fast ↔<br>IFGain:Low              | Atten: 30 dB         | Avginola: 100/100 | kr1 6.461 2 GHz<br>-2.696 dBm                 | Auto Tune                                   |
| 10.0            |   |  | â 1                  |                   |   | Center Freq<br>6.465000000 GHz              |
| -10.0           |   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | month and the second |                   |   | Start Freq<br>6.365000000 GHz               |
| -20.0 -         |   |  |                      |                   |   | <b>Stop Freq</b><br>6.565000000 GHz         |
| -40.0           | and the second for the second | کل<br>محمد ال                          |                      | 1 Martine         |   | CF Step<br>20.000000 MHz<br><u>Auto</u> Man |
| -60.0           |   |  |                      |                   |   | Freq Offset<br>0 Hz                         |
| -70.0           |   |  |                      |                   |   | Scale Type                                  |
| Cente<br>#Res I | r 6.4650 GHz<br>BW 1.0 MHz  | #VBW                                   | 3.0 MHz*             | Sweep             | Span 200.0 MHz<br>1.000 ms (1001 pts)         | Log <u>Lin</u>                              |
| MSG             |   |  |                      | STATU             | JS  |   |





Plot 7-76. Power Spectral Density MIMO ANT2 (160MHz 802.11be (UNII Band 6) - Ch. 111)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | MEASUREMENT REPORT<br>(Class II Permissive Change) | Approved by:<br>Technical Manager |  |  |
|--------------------------------------|------------------------|--|-----------------------------------|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:  | Daga 62 of 126                    |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                                    | Page 63 of 126                    |  |  |
| © 2024 ELEMENT V1 <sup>2</sup>       |                        |  |                                   |  |  |



| μα         RL         RF         50 Ω         AC         CORREC         SENSE:INT         ALIGN AUTO         04:13:49 AM Dec 30, 2023         Frequency           #Avg Type: RNS         TRACE         2.3.4.5.6         Frequency |
|--|
|  |
| PNO: Fast  |
| 10.0 Center F<br>6.42500000  |
| 0.00<br>-10.0  |
| 20.0<br>-30.0  |
| -40.0<br>-50.0   |
| Freq Of  |
| Scale T  |
| #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.333 ms (1001 pts)  |
| MSG STATUS   |

Plot 7-77. Power Spectral Density MIMO ANT2 (320MHz 802.11be (UNII Band 5/6/7) - Ch. 95)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                          | Approved by:<br>Technical Manager |                |  |
|--------------------------------------|--------------------------|-----------------------------------|----------------|--|
| Test Report S/N:                     | N: Test Dates: EUT Type: |                                   | Dege 64 of 196 |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023   | Portable Tablet                   | Page 64 01 126 |  |
| © 2024 ELEMENT                       |                          |                                   |                |  |



### MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 7)



Plot 7-78. Power Spectral Density MIMO ANT2 (20MHz 802.11be (UNII Band 7) - Ch. 149)

| Keysight Spectrum Analyzer - Swept SA |                            |   |                   |   |   |
|---------------------------------------|----------------------------|---|-------------------|---|---|
| Center Freg 6.72500000                | CORREC                     | SENSE:INT   | #Avg Type: RMS    | 03:35:40 AM Dec 30, 2023<br>TRACE 1 2 3 4 5 6 | Frequency                                   |
|                                       | PNO: Fast ++<br>IFGain:Low | <ul> <li>Trig: Free Run<br/>Atten: 30 dB</li> </ul> | Avg Hold: 100/100 | DET A PNNN                                    | Auto Turo                                   |
| 10 dB/div Ref 20.00 dBm               |                            |   | M                 | kr1 6.711 6 GHz<br>-0.527 dBm                 | Auto Tune                                   |
| 10.0                                  | <u>^1</u>                  |   |                   |   | Center Freq<br>6.725000000 GHz              |
| -10.0                                 |                            | adurtughdan ord Anarydd 1961 au                     |                   |   | Start Freq<br>6.675000000 GHz               |
| -20.0                                 |                            |   |                   |   | <b>Stop Freq</b><br>6.775000000 GHz         |
| -40.0                                 |                            |   | han han           | Anna gun an anna an anna anna anna            | CF Step<br>10.000000 MHz<br><u>Auto</u> Man |
| -60.0                                 |                            |   |                   |   | <b>Freq Offset</b><br>0 Hz                  |
| -70.0                                 |                            |   |                   |   | Scale Type                                  |
| Center 6.72500 GHz<br>#Res BW 1.0 MHz | #VBW                       | 3.0 MHz*  | Sweep             | Span 100.0 MHz<br>1.000 ms (1001 pts)         | Log <u>Lin</u>                              |
| MSG                                   |                            |   | STATU             | IS  |   |

Plot 7-79. Power Spectral Density MIMO ANT2 (40MHz 802.11be (UNII Band 7) - Ch. 155)

| FCC ID: A3LSMX910<br>IC: 649E-SMX910 |                        | Approved by:<br>Technical Manager |                |  |  |  |
|--------------------------------------|------------------------|-----------------------------------|----------------|--|--|--|
| Test Report S/N:                     | Test Dates:            | EUT Type:                         | Dage 65 of 106 |  |  |  |
| 1M2312180128-06.A3L                  | 12/15/2023 - 1/11/2023 | Portable Tablet                   | Page 05 01 120 |  |  |  |
| 2024 ELEMENT                         |                        |                                   |                |  |  |  |