

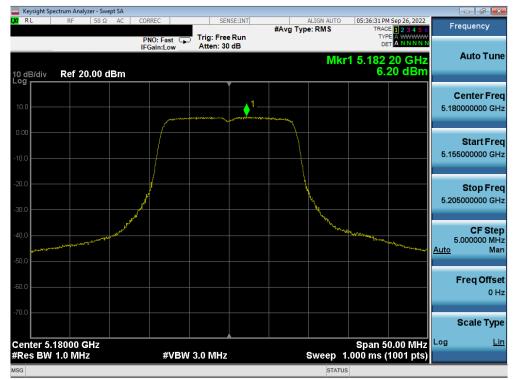
| www.com analyzer - Swept SA          |            |  |                |                              |                          | - ē 💌                                       |
|--------------------------------------|------------|--|----------------|------------------------------|--------------------------|---|
| <b>μχ/</b> R L RF 50 Ω AC            | CORREC     | SENSE:INT  | #Avg Type: RMS |                              | Sep 26, 2022 1 2 3 4 5 6 | Frequency                                   |
|                                      |            | : Free Run<br>n: 26 dB   | • //           | DET                          |                          | Auto Tune                                   |
| 10 dB/div Ref 15.00 dBm              |            |  |                | -6.20                        | 4 dBm                    |   |
| 5.00                                 | <u>*1</u>  |  |                |                              |                          | Center Freq<br>5.815000000 GHz              |
| -5.00                                |            | harrin beer and the bolt of the bear of th | mushining      |                              |                          | Start Freq<br>5.615000000 GHz               |
| -25.0                                |            |  |                |                              |                          | Stop Freq<br>6.015000000 GHz                |
| -45.0                                |            |  |                | - Strate and a special state | Where and marked         | CF Step<br>40.000000 MHz<br><u>Auto</u> Man |
| -65.0                                |            |  |                |                              |                          | Freq Offset<br>0 Hz                         |
| -75.0                                |            |  |                |                              |                          | Scale Type                                  |
| Center 5.8150 GHz<br>#Res BW 1.0 MHz | #VBW 3.0 N | 147  | Swoo           | Span 40<br>p 1.000 ms (1     | 0.0 MHz                  | Log <u>Lin</u>                              |
| MSG                                  | #VBVV 5.01 | 11112  |                | STATUS                       | oor pis)                 |   |

Plot 7-261. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 163)

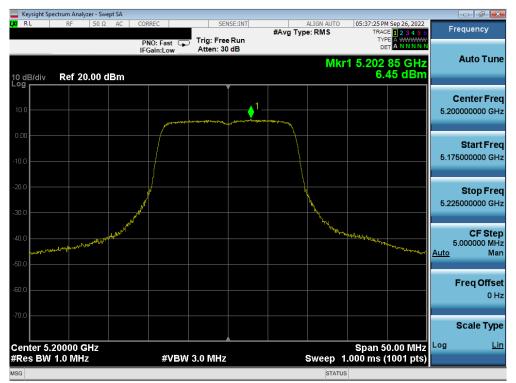
| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |
|---------------------|--------------------|---------------------------------------|------------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 162 of 254  |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 162 of 254  |  |  |
|                     |                    |                                       | \/0.0.02/01/2010 |  |  |



## MIMO Antenna-2 Power Spectral Density Measurements



Plot 7-262. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 36)

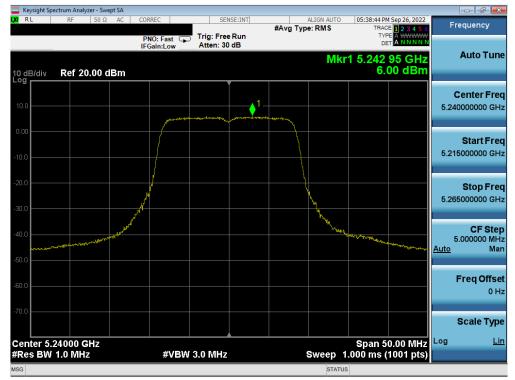


Plot 7-263. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 40)

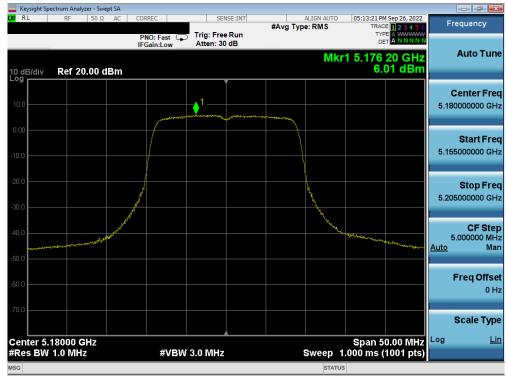
| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 162 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 163 of 254 |

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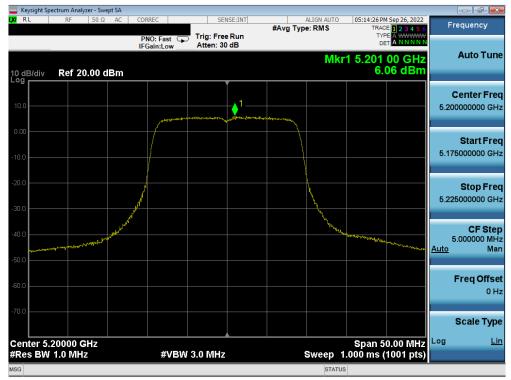
Plot 7-264. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 48)



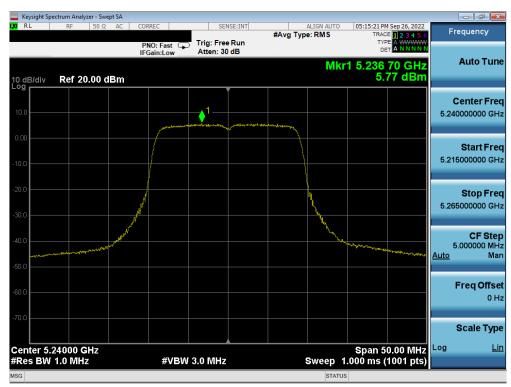
Plot 7-265. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dama 404 at 054 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 164 of 254 |
|                     | •                  |                                   | V9.0.02/01/2019 |





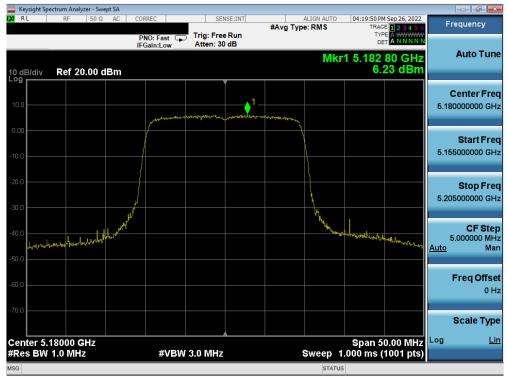
Plot 7-266. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



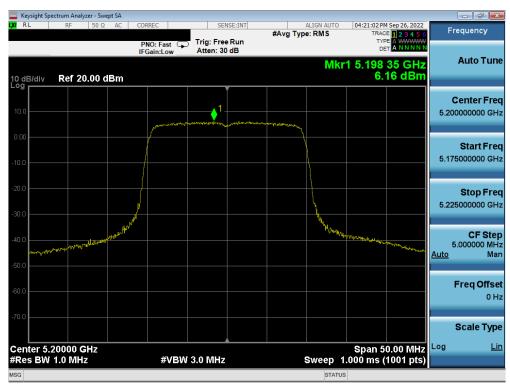
Plot 7-267. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dama 405 at 054  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 165 of 254  |
|                     |                    | -                                 | \/9.0.02/01/2019 |





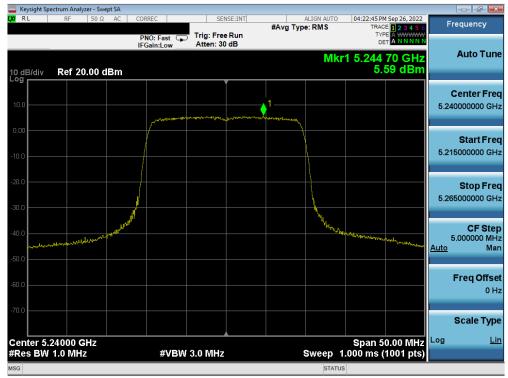
Plot 7-268. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



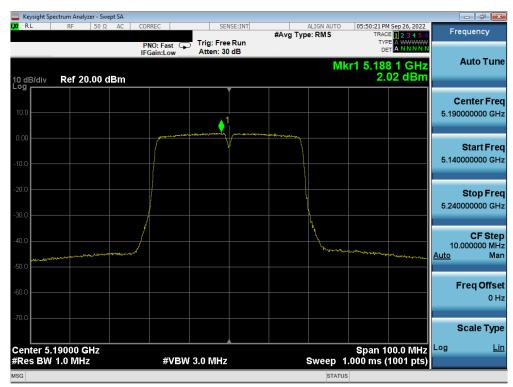
Plot 7-269. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 166 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 166 of 254 |
|                     |                    |                                   | V9.0 02/01/2019 |





Plot 7-270. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



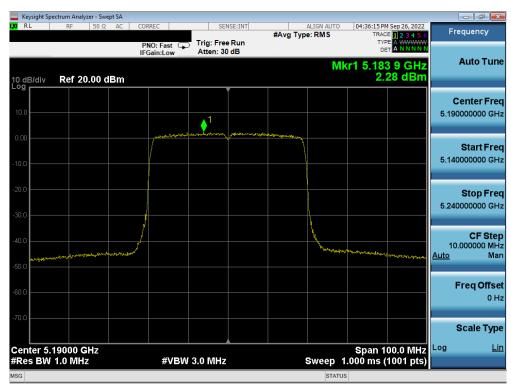
Plot 7-271. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dama 407 at 054  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 167 of 254  |
|                     |                    | -                                 | \/9.0.02/01/2019 |



|                     | ctrum Analyzer - Swept  |         |                     |                         |         |        |            |                       |   |   |
|---------------------|---|---------|---------------------|-------------------------|---------|--------|------------|-----------------------|---|---|
| LXI RL              | RF 50 Ω   | AC CORR | EC                  |                         | ISE:INT | #Avg 1 | ALIGN AUTO | TRA                   | M Sep 26, 2022<br>CE 1 2 3 4 5 6  | Frequency                                   |
| 10 dB/div           | Ref 20.00 dE  | IFGa    | D:Fast 🖵<br>ain:Low | Trig: Free<br>Atten: 30 |         |        | N          | □<br>1kr1 5.22        | 7 8 GHz<br>.81 dBm  | Auto Tune                                   |
| 10.0                |   |         |                     | ↓ <sup>1</sup>          |         |        |            |                       |   | Center Freq<br>5.230000000 GHz              |
| -10.0               |   |         |                     |                         |         |        |            |                       |   | <b>Start Freq</b><br>5.180000000 GHz        |
| -20.0               |   |         |                     |                         |         |        |            |                       |   | <b>Stop Fred</b><br>5.280000000 GHz         |
| -40.0               | water and the second |         |                     |                         |         |        |            | baragen martine gamma | and have a second a s | CF Step<br>10.000000 MHz<br><u>Auto</u> Mar |
| -60.0               |   |         |                     |                         |         |        |            |                       |   | Freq Offset<br>0 Hz                         |
| -70.0<br>Center 5.2 | 23000 GHz   |         |                     |                         |         |        |            | Span '                | 100.0 MHz   | Scale Type                                  |
| #Res BW             |   |         | #VBW                | 3.0 MHz                 |         |        | Sweep      | 1.000 ms              | (1001 pts)  |   |
| MSG                 |   |         |                     |                         |         |        | STAT       | TUS                   |   |   |

Plot 7-272. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



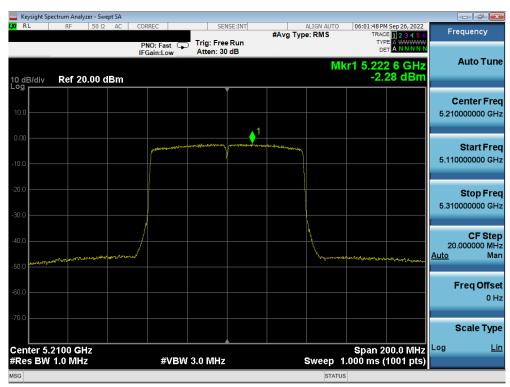
Plot 7-273. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 160 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 168 of 254 |
|                     |                    |                                   | V9.0 02/01/2019 |



|           | ctrum Analyzer - Swept    |     |                                       |           |                |        |            |                       |  | 🗗 🗾   |
|-----------|---------------------------|-----|---------------------------------------|-----------|----------------|--------|------------|-----------------------|--|---|
| LXU RL    | RF 50 Ω                   |     | REC                                   |           |                | #Avg 1 | ALIGN AUTO | TRA                   | M Sep 26, 2022<br>CE 1 2 3 4 5 6<br>DE A WWWWW | Frequency                                   |
| 10 dB/div | Ref 20.00 dB              | IFC | NO: Fast 🕞<br>Gain:Low                | Atten: 30 |                |        | N          | □<br>Ikr1 5.23        |  | Auto Tune                                   |
| 10.0      |                           |     |                                       |           | ↓ <sup>1</sup> |        |            |                       |  | Center Freq<br>5.230000000 GHz              |
| -10.0     |                           |     | A A A A A A A A A A A A A A A A A A A |           |                |        |            |                       |  | Start Freq<br>5.180000000 GHz               |
| -20.0     |                           |     |                                       |           |                |        |            |                       |  | <b>Stop Freq</b><br>5.280000000 GHz         |
| -40.0     | en aleman and a star of a |     |                                       |           |                |        | h have     | hare manaline and man | . Arrend to representation proc                | CF Step<br>10.000000 MHz<br><u>Auto</u> Man |
| -60.0     |                           |     |                                       |           |                |        |            |                       |  | Freq Offset<br>0 Hz                         |
|           | 23000 GHz                 |     |                                       |           |                |        |            | Span 1                | 00.0 MHz                                       | Scale Type                                  |
| #Res BW   | 1.0 MHz                   |     | #VBV                                  | / 3.0 MHz |                |        | Sweep      | 1.000 ms              | 1001 pts)                                      |   |
| MSG       |                           |     |                                       |           |                |        | STAT       | TUS                   |  |   |

Plot 7-274. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



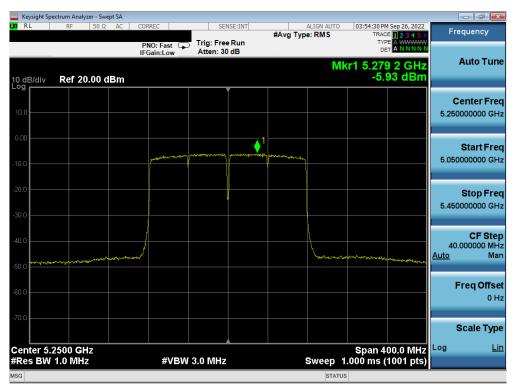
Plot 7-275. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dega 100 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 169 of 254 |
|                     | -                  |                                   | V9.0 02/01/2019 |



| 🔤 Keysight Spectrum Analyz |  |        |                                |          |                                       |   |   |
|----------------------------|--|--------|--------------------------------|----------|---------------------------------------|---|---|
| LXVI RL RF                 | 50 Ω AC CO   | RREC   | SENSE:INT                      | #Avg Typ | ALIGN AUTO<br>e: RMS                  | 04:47:50 PM Sep 26, 2022<br>TRACE 1 2 3 4 5 6<br>TYPE A WWWWW | Frequency                                   |
| 10 dB/div Ref 20.          | ۹<br>۱۶<br>.00 dBm   |        | Trig: Free Run<br>Atten: 30 dB |          | M                                     | kr1 5.208 0 GHz<br>-2.26 dBm                                  | Auto Tune                                   |
| 10.0                       |  |        |                                |          |                                       |   | Center Freq<br>5.210000000 GHz              |
| -10.0                      |  | -      |                                |          |                                       |   | Start Freq<br>5.110000000 GHz               |
| -20.0                      |  |        |                                |          |                                       |   | <b>Stop Freq</b><br>5.310000000 GHz         |
| -40.0                      | and the second s |        |                                |          | A A A A A A A A A A A A A A A A A A A | an a                      | CF Step<br>20.000000 MHz<br><u>Auto</u> Man |
| -60.0                      |  |        |                                |          |                                       |   | Freq Offset<br>0 Hz                         |
| Center 5.2100 GH           | Z  |        |                                |          |                                       | Span 200.0 MHz  | Scale Type                                  |
| #Res BW 1.0 MHz            |  | #VBW 3 | .0 MHz                         |          | Sweep                                 | 1.000 ms (1001 pts)   |   |
| MSG                        |  |        |                                |          | STATU                                 |   |   |

Plot 7-276. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



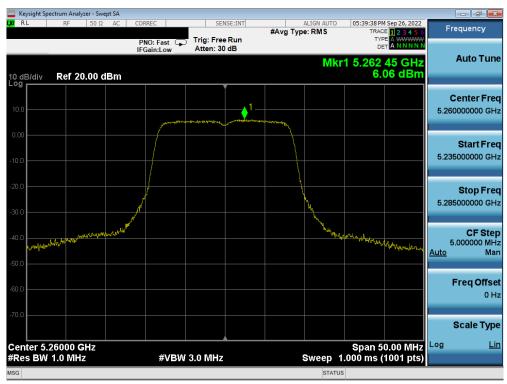
Plot 7-277. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |
|---------------------|--------------------|---------------------------------------|------------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dogo 170 of 054  |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 170 of 254  |  |  |
|                     |                    |                                       | \/9.0.02/01/2019 |  |  |



|            | trum Analyzer - Swe              |             |   |   |               |   |                      |                    |   | - 6 ×                                       |
|------------|----------------------------------|-------------|---|---|---------------|---|----------------------|--------------------|---|---|
| LXU RL     | RF 50 Ω                          |             | RREC  |   | ISE:INT       | #Avg Typ                                | ALIGN AUTO<br>e: RMS | TRAC               | 4 Sep 26, 2022<br>E 1 2 3 4 5 6<br>E A **** | Frequency                                   |
| 10 dB/div  | Ref 20.00 d                      | IF          | NO: Fast Ģ<br>Gain:Low  | Atten: 30   | dB            |   | Μ                    | Ikr1 5.26          |   | Auto Tune                                   |
| 10.0       |                                  |             |   |   |               |   |                      |                    |   | Center Freq<br>5.250000000 GHz              |
| -10.0      |                                  |             | word to the second s | and a second and a s | annin in anar | and |                      |                    |   | Start Freq<br>5.05000000 GHz                |
| -20.0      |                                  |             |   |   |               |   |                      |                    |   | <b>Stop Freq</b><br>5.450000000 GHz         |
| -40.0      | where a rest of the state of the | rsonport of |   |   |               |   |                      | negariyatedayatang | where a starter                             | CF Step<br>40.000000 MHz<br><u>Auto</u> Man |
| -60.0      |                                  |             |   |   |               |   |                      |                    |   | Freq Offset<br>0 Hz                         |
| Center 5.2 | 500 GHz                          |             |   |   |               |   |                      | Snan 4             | 00.0 MHz                                    | Scale Type                                  |
| #Res BW    |                                  |             | #VBW  | 3.0 MHz   |               |   | Sweep                | 1.000 ms (         | 00.0 191112                                 |   |
| MSG        |                                  |             |   |   |               |   | STAT                 |                    |   |   |

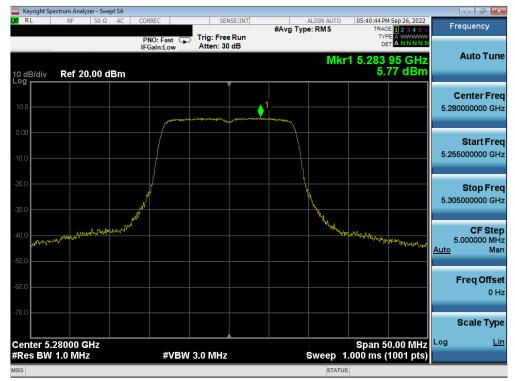
Plot 7-278. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



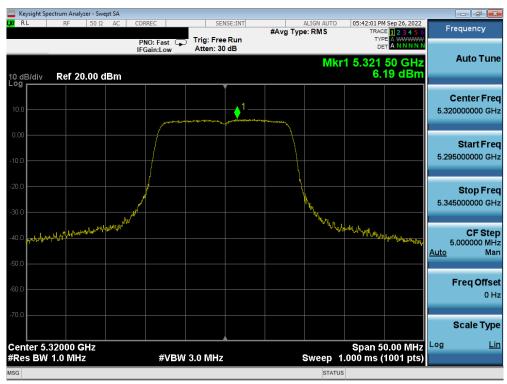
Plot 7-279. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) – Ch. 52)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |
|---------------------|--------------------|---------------------------------------|------------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 171 of 254  |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 171 of 254  |  |  |
|                     |                    |                                       | \/9.0.02/01/2019 |  |  |





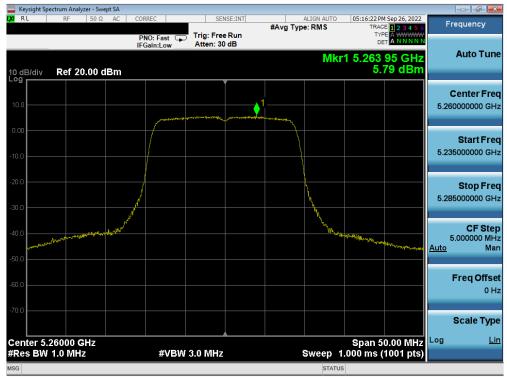




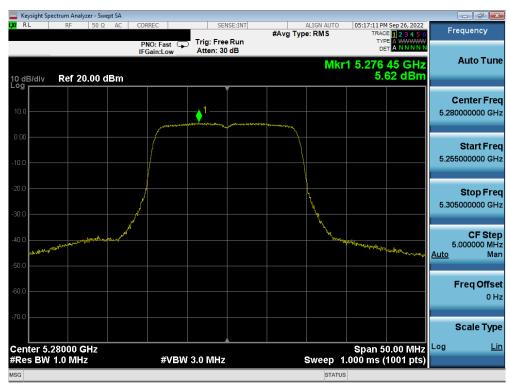
Plot 7-281. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 64)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|--------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 172 of 254 |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 172 of 254 |  |  |
| <b>-</b>            | -                  |                                       | V9.0 02/01/2019 |  |  |





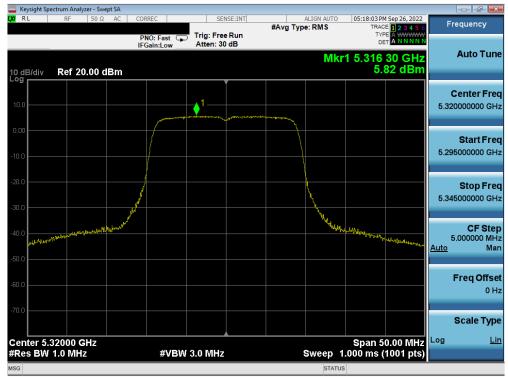
Plot 7-282. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



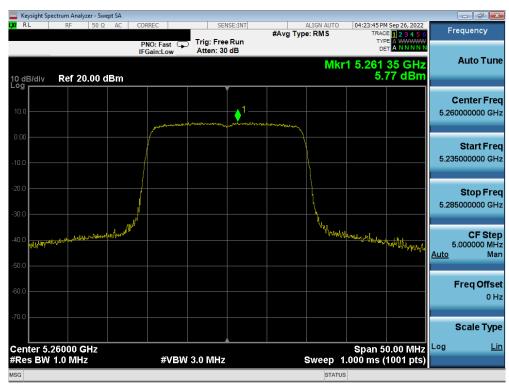
Plot 7-283. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |  |
|---------------------|--------------------|-----------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 172 of 254 |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 173 of 254 |  |
| <b>-</b>            |                    |                                   | V9.0 02/01/2019 |  |





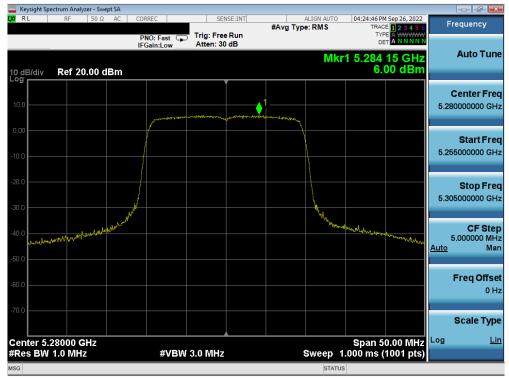
Plot 7-284. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



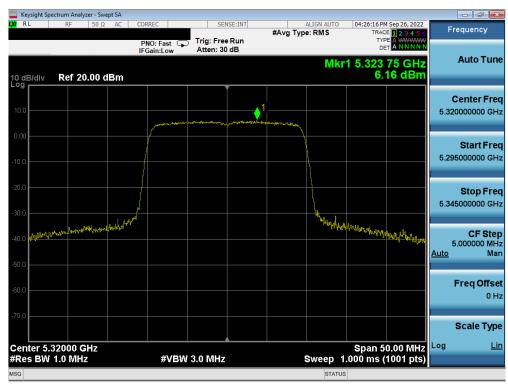
Plot 7-285. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|--------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 174 of 254 |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 174 of 254 |  |  |
|                     |                    |                                       | V9 0 02/01/2019 |  |  |





Plot 7-286. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



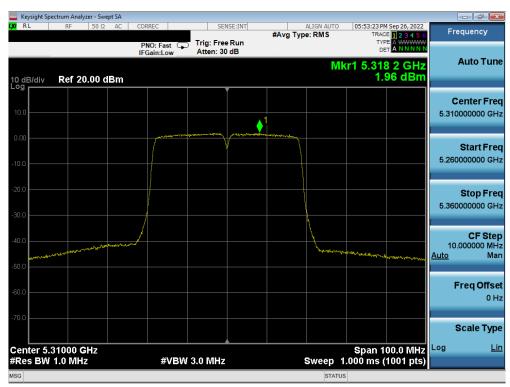
Plot 7-287. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |  |
|---------------------|--------------------|-----------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 175 of 254 |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 175 of 254 |  |
|                     |                    |                                   | V9.0 02/01/2019 |  |



|                  | ctrum Analyzer - Swept S             |                                |                                  |                |                      |  |   |
|------------------|--------------------------------------|--------------------------------|----------------------------------|----------------|----------------------|--|---|
| LXIRL            | RF 50 Ω /                            |                                | SENSE:INT                        | #Avg Typ       | ALIGN AUTO<br>e: RMS | 05:52:25 PM Sep 26, 2022<br>TRACE 1 2 3 4 5 6  | Frequency                                   |
| 10 dB/div<br>Log | Ref 20.00 dB                         | PNO: Fast G<br>IFGain:Low<br>M | ☐ Trig: Free Run<br>Atten: 30 dB |                | М                    | түре А МИКИК<br>DET A NNNNN<br>kr1 5.277 9 GHz<br>1.96 dBm   | Auto Tune                                   |
| 10.0             |                                      |                                |                                  | ▲ <sup>1</sup> |                      |  | Center Freq<br>5.270000000 GHz              |
| -10.0            |                                      |                                |                                  |                |                      |  | <b>Start Freq</b><br>5.220000000 GHz        |
| -20.0            |                                      |                                |                                  |                |                      |  | <b>Stop Freq</b><br>5.320000000 GHz         |
| -40.0            | agun Natanan Alaga ay an Alaga da an |                                |                                  |                | 4                    | and and a second and the and the second and the sec | CF Step<br>10.000000 MHz<br><u>Auto</u> Man |
| -60.0            |                                      |                                |                                  |                |                      |  | Freq Offset<br>0 Hz                         |
|                  | 27000 GHz                            |                                |                                  |                |                      | Span 100.0 MHz   | Scale Type                                  |
| #Res BW          | 1.0 MHz                              | #VBV                           | V 3.0 MHz                        |                |                      | 1.000 ms (1001 pts)  |   |
| MSG              |                                      |                                |                                  |                | STATU                | JS   |   |

Plot 7-288. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



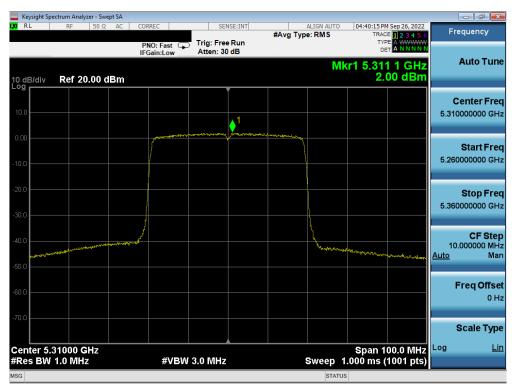
Plot 7-289. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |  |
|---------------------|--------------------|-----------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dega 176 of 254 |  |
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|                     | <u> </u>           |                                   | V9.0 02/01/2019 |  |



|  | ctrum Analyzer - Swept SA  |                           |                                |                           |  |                          |
|--|----------------------------|---------------------------|--------------------------------|---------------------------|--|--------------------------|
| L <mark>XI</mark> RL   | RF 50 Ω AC                 | C CORREC                  | SENSE:INT                      | ALIGN A<br>#Avg Type: RMS | TRACE 1 2 3 4 5  | 6 Frequency              |
|  |                            | PNO: Fast 🕞<br>IFGain:Low | Trig: Free Run<br>Atten: 30 dB |                           | TYPE A WWWWW<br>DET A NNNN                                 | ₩.                       |
|  |                            | Ir Gain.Low               |                                |                           | Mkr1 5.272 8 GH  | Auto Tune                |
| 10 dB/div  | Ref 20.00 dBm              | n                         |                                |                           | 2.02 dBm   | 1                        |
|  |                            |                           |                                |                           |  | Center Freq              |
| 10.0   |                            |                           |                                |                           |  | 5.270000000 GHz          |
|  |                            |                           |                                |                           |  |                          |
| 0.00   |                            |                           |                                |                           |  | Start Freq               |
| -10.0  |                            |                           |                                |                           |  | 5.220000000 GHz          |
|  |                            |                           |                                |                           |  |                          |
| -20.0  |                            |                           |                                |                           |  | Stop Freq                |
| -30.0  |                            |                           |                                |                           |  | 5.32000000 GHz           |
| -30.0  |                            | 1                         |                                |                           |  |                          |
| -40.0  |                            |                           |                                | <b>\</b>                  |  | CF Step<br>10.000000 MHz |
| and a start of the | monorman to all the second |                           |                                | Jun                       | have been been been and and and and and and and and and an | Auto Man                 |
| -50.0  |                            |                           |                                |                           |  |                          |
| -60.0  |                            |                           |                                |                           |  | Freq Offset              |
| -00.0  |                            |                           |                                |                           |  | 0 Hz                     |
| -70.0  |                            |                           |                                |                           |  |                          |
|  |                            |                           |                                |                           |  | Scale Type               |
| Center 5.2   |                            |                           |                                |                           | Span 100.0 MH  | Log <u>Lin</u>           |
| #Res BW  | 1.0 MHz                    | #VBW                      | / 3.0 MHz                      | Swee                      | p 1.000 ms (1001 pts                                       |                          |
| MSG  |                            |                           |                                | s                         | STATUS   |                          |

Plot 7-290. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



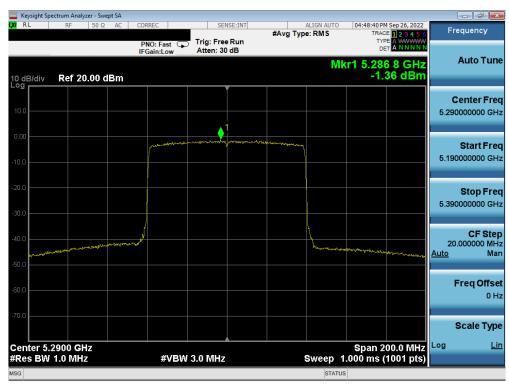
Plot 7-291. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 177 of 054 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 177 of 254 |
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|                      | ctrum Analyzer - Swept  |     |            |  |         |                         |                       |   |  | - 6 ×                                       |
|----------------------|---|-----|------------|--|---------|-------------------------|-----------------------|---|--|---|
| L <mark>XI</mark> RL | RF 50 Ω   |     |            |  | ISE:INT | #Avg Ty                 | ALIGN AUTO<br>pe: RMS | TRAC  | M Sep 26, 2022<br>CE 1 2 3 4 5 6<br>DE A WWWWW | Frequency                                   |
| 10 dB/div<br>Log     | Ref 20.00 dB  | IFG | IO: Fast 😱 | Atten: 30                                    |         |                         | N                     | ں<br>1kr1 5.29  |  | Auto Tune                                   |
| 10.0                 |   |     |            |  | ▲1      |                         |                       |   |  | Center Freq<br>5.290000000 GHz              |
| -10.0                |   |     |            | anger an | pr-101  | rtini ing pangangangang |                       |   |  | Start Freq<br>5.19000000 GHz                |
| -20.0                |   |     |            |  |         |                         |                       |   |  | <b>Stop Freq</b><br>5.39000000 GHz          |
| -40.0                | and and the state of the state |     |            |  |         |                         | hannar                | and the spectrum and the s | manging  | CF Step<br>20.000000 MHz<br><u>Auto</u> Man |
| -60.0                |   |     |            |  |         |                         |                       |   |  | Freq Offset<br>0 Hz                         |
| -70.0<br>Center 5.2  |   |     |            |  |         |                         |                       | Span 2  | 00.0 MHz                                       | Scale Type                                  |
| #Res BW              | 1.0 WIHZ  |     | #VBW       | 3.0 MHz                                      |         |                         | Sweep                 | 1.000 ms (  | 1001 pts)                                      |   |
| NOG                  |   |     |            |  |         |                         | STAT                  | 05  |  |   |

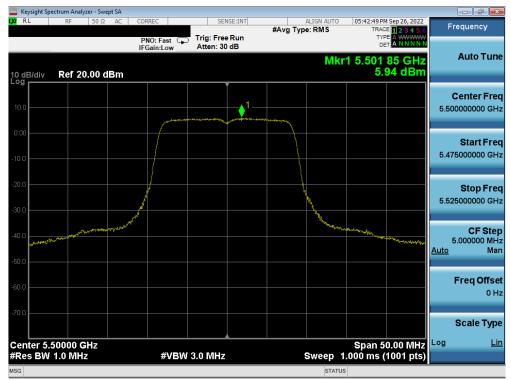
Plot 7-292. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



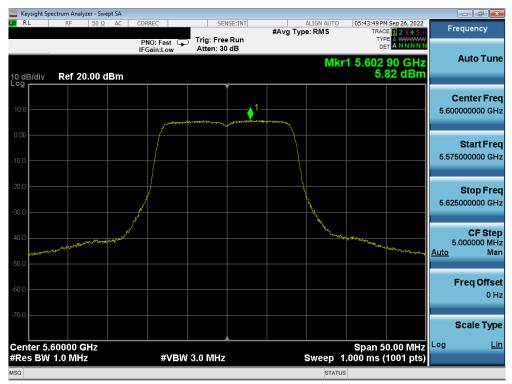
Plot 7-293. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 170 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 178 of 254                   |
|                     |                                       |                  | V9.0.02/01/2019                   |





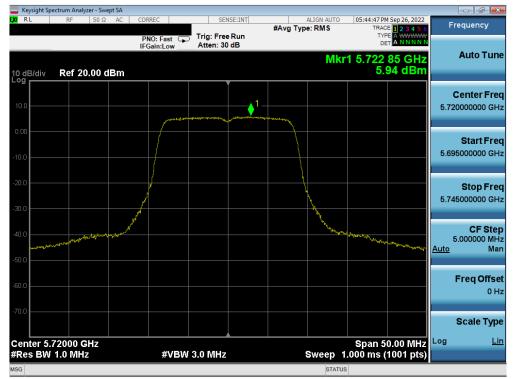
Plot 7-294. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) – Ch. 100)



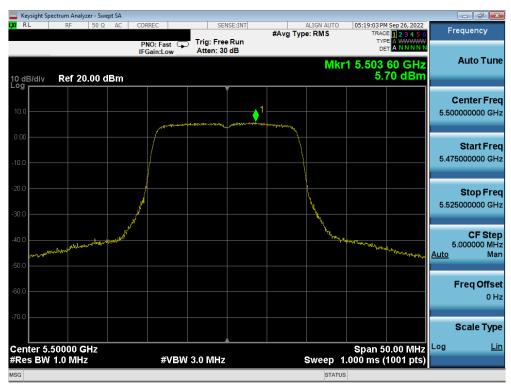
Plot 7-295. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 120)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dogo 170 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 179 of 254                   |
|                     |                                       | ·                | V9.0 02/01/2019                   |





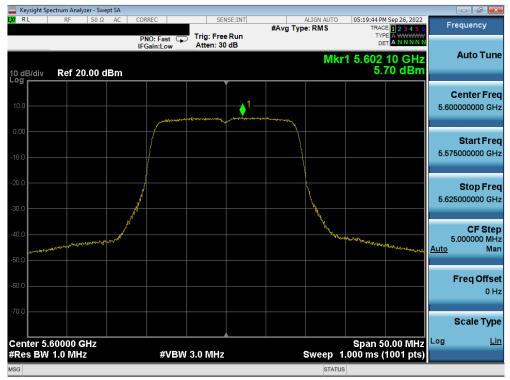
Plot 7-296. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 144)



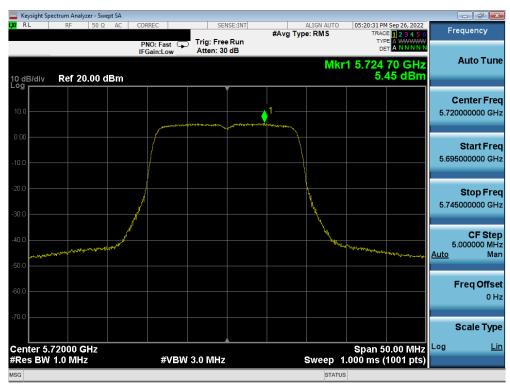
Plot 7-297. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 190 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 180 of 254                   |
|                     |                                       |                  | V9.0 02/01/2019                   |





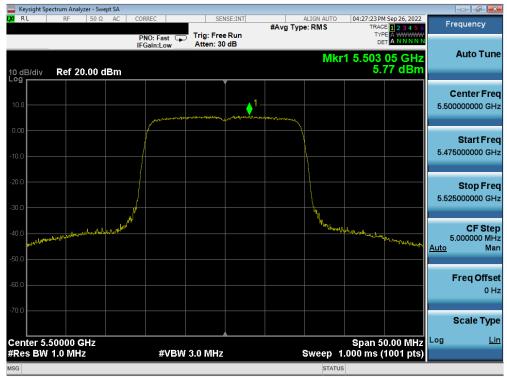
Plot 7-298. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



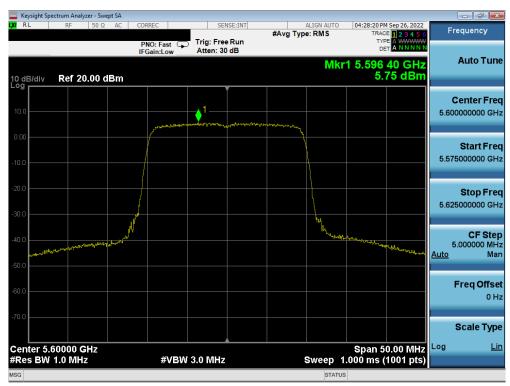
Plot 7-299. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |  |
|---------------------|---------------------------------------|------------------|-----------------------------------|--|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 191 of 254                   |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 181 of 254                   |  |
|                     |                                       |                  | V9 0 02/01/2019                   |  |





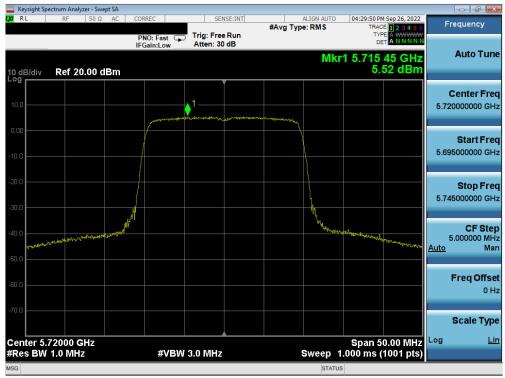
Plot 7-300. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



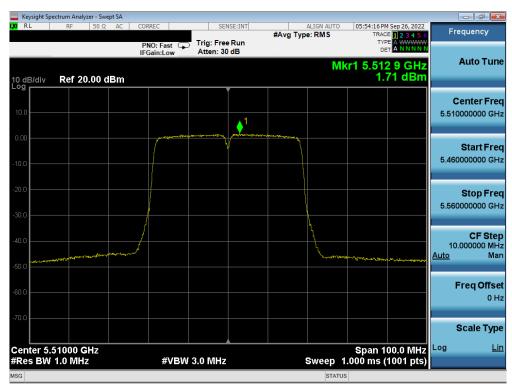
Plot 7-301. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dogo 192 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 182 of 254                   |
|                     | -                                     |                  | V9.0 02/01/2019                   |





Plot 7-302. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



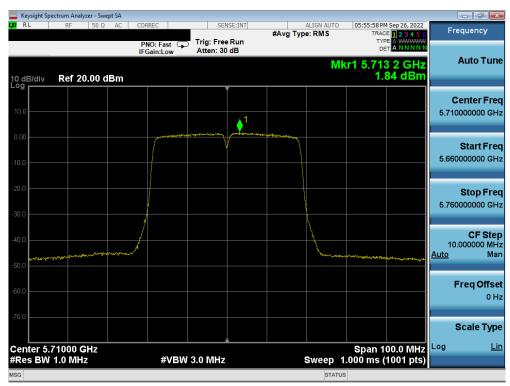
Plot 7-303. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 192 of 254                   |
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|                     |                                       |                  | V9 0 02/01/2019                   |



| www.www.com.com.com.com.com.com.com.com.com.com |                             |                               |                             |  |   |
|---|-----------------------------|-------------------------------|-----------------------------|--|---|
| LX RL RF 50Ω AC                                 | CORREC                      | SENSE:INT                     | ALIGN AUT<br>#Avg Type: RMS | TRACE 1 2 3 4 5 6  | Frequency                                   |
|   | PNO: Fast 🖵 T<br>IFGain:Low | rig: Free Run<br>Atten: 30 dB |                             | TYPE A WWWW<br>DET A NNNNN<br>Mkr1 5.595 0 GHz   | Auto Tune                                   |
| 10 dB/div Ref 20.00 dBm                         |                             |                               |                             | 2.00 dBm   |   |
| 10.0  |                             | <b>1</b>                      |                             |  | Center Freq<br>5.590000000 GHz              |
| -10.0   |                             |                               |                             |  | <b>Start Freq</b><br>5.540000000 GHz        |
| -20.0   |                             |                               |                             |  | <b>Stop Freq</b><br>5.640000000 GHz         |
| -40.0   |                             |                               |                             | fire the second state of t | CF Step<br>10.000000 MHz<br><u>Auto</u> Man |
| -60.0   |                             |                               |                             |  | Freq Offset<br>0 Hz                         |
| -70.0   |                             |                               |                             |  | Scale Type                                  |
| Center 5.59000 GHz<br>#Res BW 1.0 MHz           | #VBW 3.                     | 0 MHz                         | Sween                       | Span 100.0 MHz<br>1.000 ms (1001 pts)  | Log <u>Lin</u>                              |
| MSG   |                             |                               |                             | ATUS   |   |

Plot 7-304. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



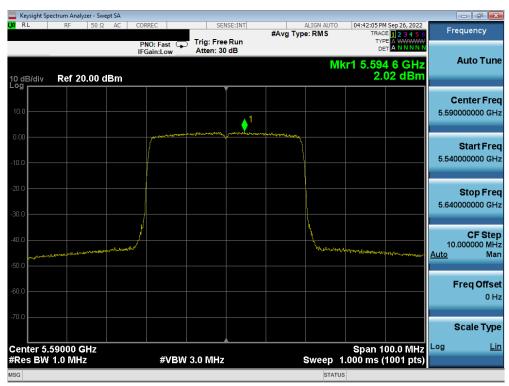
Plot 7-305. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dega 194 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 184 of 254                   |
|                     |                                       |                  | V9.0 02/01/2019                   |



| <b>LXI</b> RL RF 50 Ω                 | AC CORREC                                | Trig: Free Run  | ALIGN AUT<br>#Avg Type: RMS  | 0 04:41:13 PM Sep 26, 2022<br>TRACE 1 2 3 4 5 6<br>TYPE A WWWWW   | Frequency   |
|---------------------------------------|--|---|--|---|---|
| 10 dB/div Ref 20.00 d                 | IFGain:Low                               | Atten: 30 dB  | 1  | oet ANNNNN<br>Mkr1 5.504 7 GHz<br>1.56 dBm  | Auto Tune   |
|                                       |  | <b>↓</b> 1  |  |   | Center Freq<br>5.510000000 GHz                          |
| -10.0                                 |  | and a second and a second s |  |   | Start Freq<br>5.46000000 GHz                            |
| -20.0                                 |  |   |  |   | Stop Freq<br>5.560000000 GHz                            |
| -40.0<br>-50.0                        | en e |   | Land Contraction of C | the and the second s | CF Step<br>10.000000 MH <del>;</del><br><u>Auto</u> Mar |
| -60.0                                 |  |   |  |   | Freq Offse<br>0 H:                                      |
| Center 5.51000 GHz<br>#Res BW 1.0 MHz | #VB1A                                    | / 3.0 MHz   | Sween  | Span 100.0 MHz<br>1.000 ms (1001 pts)   | Scale Type  |
| MSG                                   | #VBW                                     | 5.0 1012  |  |   |   |

Plot 7-306. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



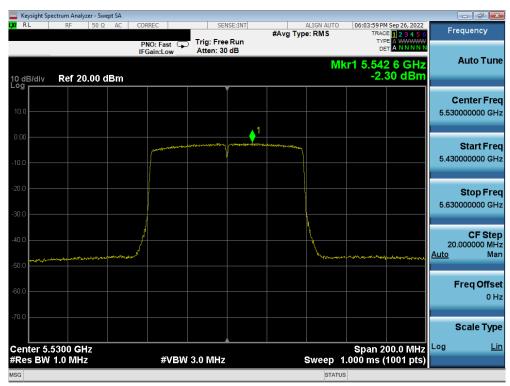
Plot 7-307. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dogo 195 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 185 of 254                   |
|                     |                                       |                  | V9.0 02/01/2019                   |



| μχ         RL         RF         50 Ω         AC         CORREC         SENSE:INT         ALIGN AUTO         [04:43:09M Sep 26, 2027]         Frequency           PNO: Fast         Trig: Free Run<br>IFGain:Low         Trig: Free Run<br>Atten: 30 dB         Trig: Trig: RMS         TRACE         2 3 4 5 6         Frequency           NKr1 5.711 2 GHz         Auto Tu         0.01 dB/div         Ref 20.00 dBm         Center Fr         5.71000000 G         Start Fr           10.0         1         1         1         5.66000000 G         Start Fr         5.66000000 G         Start Fr           -10.0         -         -         -         -         -         -         5.76000000 G         Start Fr           -000         -         -         -         -         -         -         5.76000000 G         - |
|---|
| Pro: rask     Atten: 30 dB     Det ANNNN       10 dB/div     Ref 20.00 dBm     1.19 dBm       10.0     1     1.19 dBm       10.0     1     1.19 dBm       10.0     1     5.71000000 dBm       10.0     1     5.71000000 dBm       10.0     1     5.71000000 dBm       10.0     1     5.71000000 dBm       10.0     1     5.75000000 dBm   |
| 10.0         1         Center Fr           0.00         1         5.71000000 G           10.0         1         5.66000000 G           20.0         5.66000000 G  |
| -10.0<br>-20.0<br>-20.0   |
| 5.76000000 G  |
|   |
| -40.0<br>-50.0  |
| -60.0   |
| Center 5.71000 GHz Span 100.0 MHz   |
| #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)  |

Plot 7-308. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



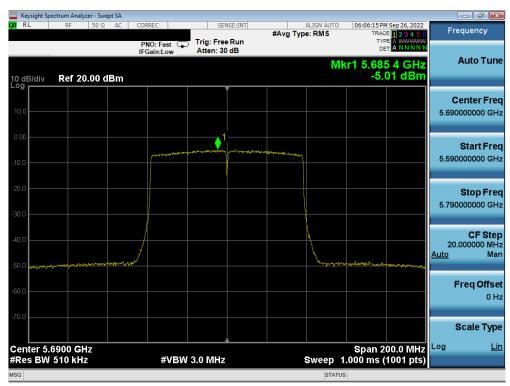
Plot 7-309. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dega 196 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 186 of 254                   |
|                     |                                       |                  | V9.0 02/01/2019                   |



|                     | trum Analyzer - Swe  |       |                         |   |                       |                               |            |                              |   | - 6 <b>-</b>                                       |
|---------------------|--|-------|-------------------------|---|-----------------------|-------------------------------|------------|------------------------------|---|--|
| LXU RL              | RF 50 Ω  | AC CC | DRREC                   |   | ISE:INT               | #Avg Typ                      | ALIGN AUTO | TRAC                         | Sep 26, 2022<br>E 1 2 3 4 5 6                         | Frequency  |
| 10 dB/div<br>Log    | Ref 20.00 c  | IF    | PNO: Fast 🕞<br>Gain:Low | Trig: Free<br>Atten: 30   |                       |                               | Μ          | DE                           | 2 2 GHz<br>99 dBm                                     | Auto Tune  |
| 10.0                |  |       |                         |   | <u></u> 1             |                               |            |                              |   | Center Fred<br>5.610000000 GH:                     |
| -10.0               |  |       |                         | and a second line of the second line of the second s | property and here was | and a station of sections and |            |                              |   | Start Fred<br>5.510000000 GH:                      |
| -20.0               |  |       |                         |   |                       |                               |            |                              |   | <b>Stop Fred</b><br>5.710000000 GH                 |
| -40.0               | مدفعه والمعالية والم | emm   | /                       |   |                       |                               | A Annone   | Wedgerman Prosess of growing | مربور برور اور می | <b>CF Step</b><br>20.000000 MH:<br><u>Auto</u> Mar |
| -60.0               |  |       |                         |   |                       |                               |            |                              |   | Freq Offse<br>0 H:                                 |
| -70.0<br>Center 5.6 | 100 GHz  |       |                         |   |                       |                               |            | Span 2                       | 00.0 MHz  | Scale Type   |
| #Res BW             |  |       | #VBW                    | 3.0 MHz   |                       |                               | Sweep      | 1.000 ms (                   | 1001 pts)   |  |
| MSG                 |  |       |                         |   |                       |                               | STAT       | US                           |   |  |

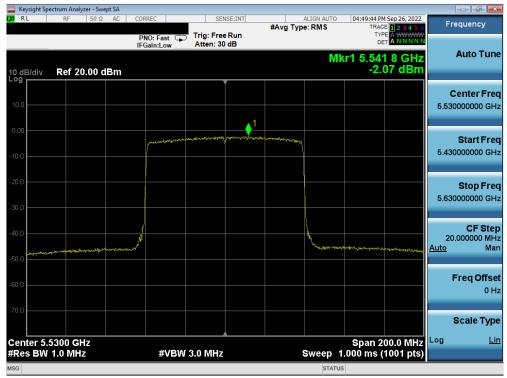
Plot 7-310. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



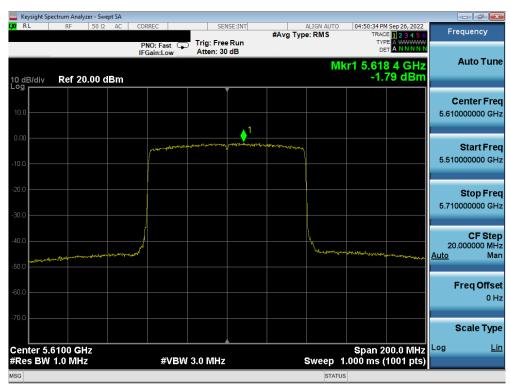
Plot 7-311. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 197 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 187 of 254 |
|                     |                    |                                   | V9.0 02/01/2019 |





Plot 7-312. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



Plot 7-313. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 100 of 054 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 188 of 254 |
|                     |                    |                                   | V9.0 02/01/2019 |



|            | trum Analyzer - Swept SA |  |  |                   |                 |                         |                 |   |
|------------|--------------------------|--|--|-------------------|-----------------|-------------------------|-----------------|---|
| LXU RL     | RF 50 Ω AC               |  | SENSE:INT  | #Avg Type:        | IGN AUTO<br>RMS | 04:51:27 PM S<br>TRACE  | Sep 26, 2022    | Frequency                                   |
| 10 dB/div  | Ref 20.00 dBm            | PNO: Fast G  | Atten: 30 dB   |                   | Mk              | DET<br><b>(r1 5.685</b> | ANNNNN          | Auto Tune                                   |
| 10.0       |                          |  |  |                   |                 |                         |                 | Center Freq<br>5.69000000 GHz               |
| -10.0      |                          | And the second | n energieren far | and the second of |                 |                         |                 | <b>Start Freq</b><br>5.590000000 GHz        |
| -20.0      |                          |  |  |                   |                 |                         |                 | <b>Stop Freq</b><br>5.790000000 GHz         |
| -40.0      |                          | removed a  |  |                   | he warder and   | hander and the          | 1 maleson-sadar | CF Step<br>20.000000 MHz<br><u>Auto</u> Man |
| -60.0      |                          |  |  |                   |                 |                         |                 | <b>Freq Offset</b><br>0 Hz                  |
| Center 5.6 |                          |  |  |                   |                 | Span 20                 | 0.0 1911 12     | Scale Type                                  |
| #Res BW \$ | 510 kHz                  | #VBW   | 3.0 MHz  | SI                | weep 1          | .000 ms (1              | 001 pts)        |   |
| MSG        |                          |  |  |                   | STATUS          |                         |                 |   |

Plot 7-314. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)



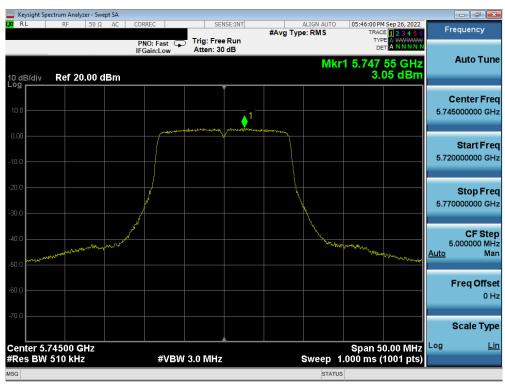
Plot 7-315. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 190 of 254  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 189 of 254  |
|                     |                    |                                   | \/9.0.02/01/2019 |



|            | trum Analyzer - Swept SA      | •                       |  |                        |                      |   |   |
|------------|-------------------------------|-------------------------|--|------------------------|----------------------|---|---|
| LXU RL     | RF 50 Ω AC                    |                         | Trig: Free Run   | ALIGI<br>#Avg Type: RI | MS TRAC              | 1 Sep 26, 2022<br>E 1 2 3 4 5 6<br>PE A WWWWW | Frequency                                   |
| 10 dB/div  | Ref 20.00 dBn                 | PNO: Fast<br>IFGain:Low | Atten: 30 dB   |                        | Mkr1 5.58            | ANNNN   | Auto Tune                                   |
| 10.0       |                               |                         |  |                        |                      |   | Center Freq<br>5.570000000 GHz              |
| -10.0      |                               |                         | proper services and a service of the services of the service of the services o |                        |                      |   | <b>Start Freq</b><br>5.370000000 GHz        |
| -20.0      |                               |                         |  |                        |                      |   | <b>Stop Freq</b><br>5.770000000 GHz         |
| -40.0      | Mary many and a second second | ~~~~                    |  |                        | AMachanal-Malingunga | an angeler and an                             | CF Step<br>40.000000 MHz<br><u>Auto</u> Man |
| -60.0      |                               |                         |  |                        |                      |   | <b>Freq Offset</b><br>0 Hz                  |
| Center 5.5 | 700 GHz                       |                         |  |                        | Span 4               | 00.0 MHz                                      | Scale Type                                  |
| #Res BW 1  |                               | #VBW                    | 3.0 MHz  | Swe                    | eep 1.000 ms (       | 1001 pts)                                     |   |
| MSG        |                               |                         |  |                        | STATUS               |   |   |

Plot 7-316. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



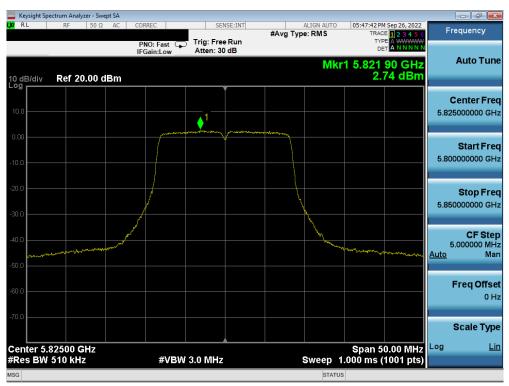
Plot 7-317. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 149)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dega 100 of 251 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 190 of 254 |
|                     | •                  |                                   | V9.0 02/01/2019 |



|             | um Analyzer - Swept            |   |          |           |    |      |                 |              |                      |   |                                      |
|-------------|--------------------------------|---|----------|-----------|----|------|-----------------|--------------|----------------------|---|--------------------------------------|
| XI RL       | RF 50 Ω                        |   | REC      |           |    | #Avg | ALIG<br>Type: R | N AUTO<br>MS | TRAC                 | 1 Sep 26, 2022<br>E 1 2 3 4 5 6<br>E A WWWW | Frequency                            |
| 10 dB/div   | Ref 20.00 dE                   | IFC   | Gain:Low | Atten: 30 | dB |      |                 | Mkr          | 5.781                | 80 GHz<br>28 dBm                            | Auto Tu                              |
| 10.0        |                                |   |          |           | -  |      |                 |              |                      |   | Center Fr<br>5.785000000 G           |
| -10.0       |                                |   |          |           |    |      |                 |              |                      |   | Start Fi<br>5.760000000 G            |
| -20.0       |                                |   |          |           |    |      | LA LA           |              |                      |   | Stop Fi<br>5.810000000 G             |
| -40.0       | the physical and a first state | N. R. W. C. M. C. |          |           |    |      | 1               | John Martin  | le-le-met-pa-jareson | www.www.wood                                | CF S1<br>5.000000 M<br><u>Auto</u> M |
| 60.0        |                                |   |          |           |    |      |                 |              |                      |   | Freq Off<br>0                        |
| Center 5.78 |                                |   |          | ,         |    |      |                 |              | Span 5               | 0.00 MHz                                    | Scale Ty                             |
| #Res BW 51  | 10 kHz                         |   | #VBW     | 3.0 MHz   |    |      | Sw              | eep 1.       | 000 ms (             | 1001 pts)                                   |                                      |
| MSG         |                                |   |          |           |    |      |                 | STATUS       |                      |   |                                      |

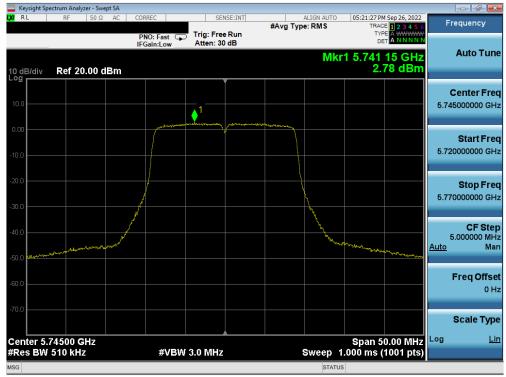




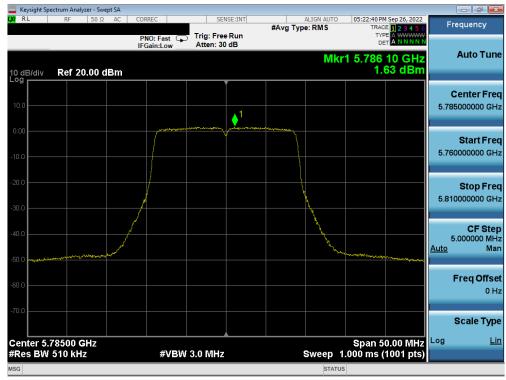
Plot 7-319. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 165)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager     |                  |
|---------------------|--------------------|---------------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dama 404 at 054  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 191 of 254  |
|                     |                    | · · · · · · · · · · · · · · · · · · · | \/9.0.02/01/2019 |





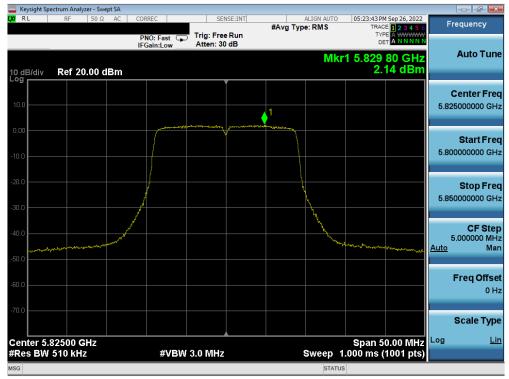
Plot 7-320. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



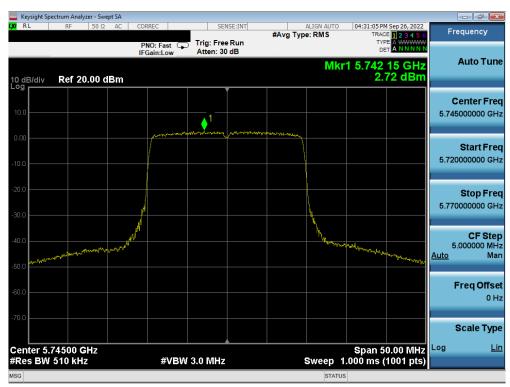
Plot 7-321. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |
|---------------------|--------------------|---------------------------------------|------------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dogo 102 of 254  |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 192 of 254  |  |  |
|                     |                    |                                       | \/9.0.02/01/2019 |  |  |





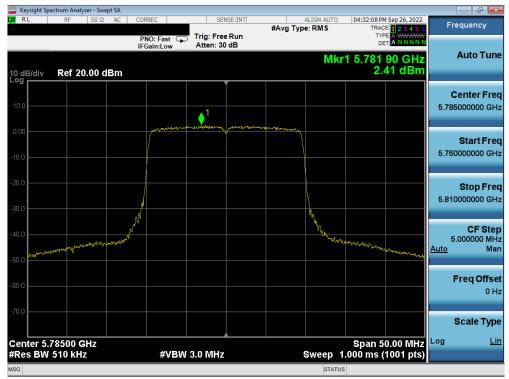
Plot 7-322. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



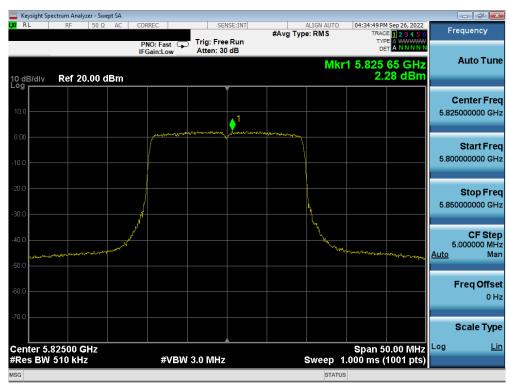
Plot 7-323. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dama 400 at 054  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 193 of 254  |
|                     |                    |                                   | \/9.0.02/01/2019 |





Plot 7-324. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



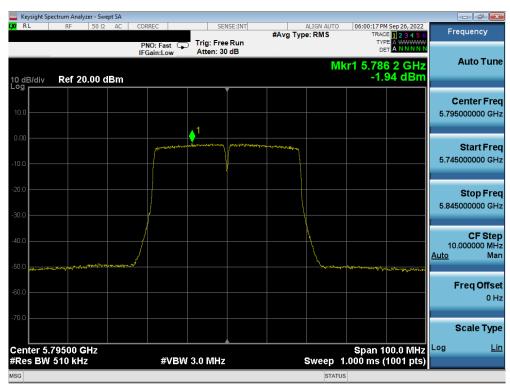
Plot 7-325. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dega 104 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 194 of 254 |
|                     | -                  |                                   | V9.0 02/01/2019 |



| 🔤 Keysight Spectrum Analyzer - Swept SA |  |                                   |  |  |
|---|--|-----------------------------------|--|--|
| <b>ΙΧ΄ RL</b> RF 50Ω AC                 |  | SE:INT ALIGN AU<br>#Avg Type: RMS | TO 05:56:59 PM Sep 26, 2022<br>TRACE 1 2 3 4 5 6<br>TYPE A ******  | Frequency  |
| 10 dB/div Ref 20.00 dBm                 | PNO: Fast Trig: Free I<br>IFGain:Low Atten: 30 d | dB                                | Mkr1 5.747 4 GHz<br>-1.28 dBm  | Auto Tune  |
| 10.0                                    |  |                                   |  | Center Freq<br>5.755000000 GHz                     |
| -10.0                                   |  |                                   |  | <b>Start Freq</b><br>5.705000000 GHz               |
| -20.0                                   |  |                                   |  | <b>Stop Freq</b><br>5.805000000 GHz                |
| -40.0                                   |  |                                   | and and a state state of the st | <b>CF Step</b><br>10.000000 MHz<br><u>Auto</u> Man |
| -60.0                                   |  |                                   |  | <b>Freq Offset</b><br>0 Hz                         |
| Center 5.75500 GHz<br>#Res BW 510 kHz   | #VBW 3.0 MHz                                     | Sweer                             | Span 100.0 MHz<br>5 1.000 ms (1001 pts)  | Scale Type<br>Log <u>Lin</u>                       |
| MSG                                     |  |                                   | ATUS   |  |

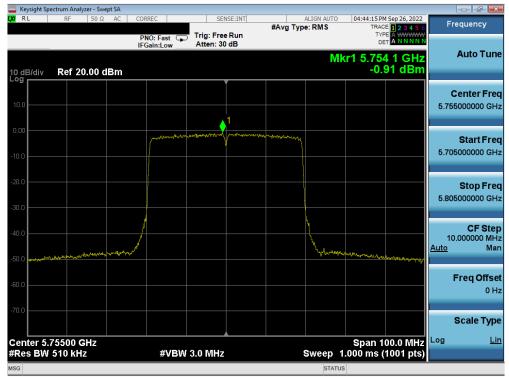
Plot 7-326. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



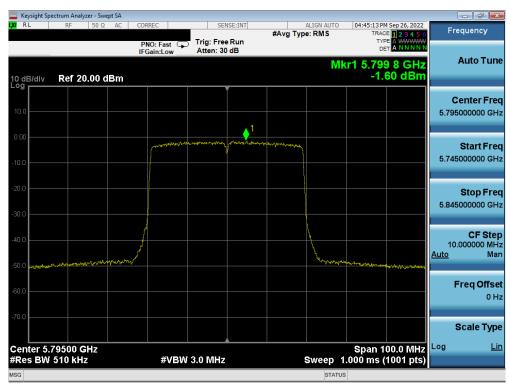
Plot 7-327. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dere 105 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 195 of 254 |
|                     | -                  |                                   | V9.0 02/01/2019 |





Plot 7-328. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



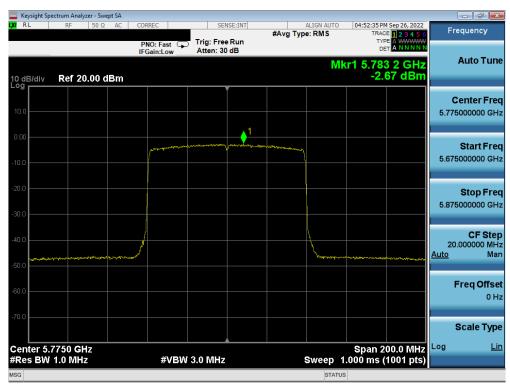
Plot 7-329. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 106 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 196 of 254 |
|                     |                    |                                   | V9 0 02/01/2019 |



|                       | ctrum Analyzer - Swe  |  |                        |                         |         |               |                 |                      |                                 |                                |                      |
|-----------------------|---|--|------------------------|-------------------------|---------|---------------|-----------------|----------------------|---------------------------------|--------------------------------|----------------------|
| LXI RL                | RF 50 Ω   | AC CO  | RREC                   | SEN                     | ISE:INT | #Avg Typ      | ALIGN AUTO      |                      | 4 Sep 26, 2022<br>E 1 2 3 4 5 6 | Frequenc                       | cy                   |
|                       |   |  | NO: Fast 🖵<br>Gain:Low | Trig: Free<br>Atten: 30 |         |               |                 | TY                   |                                 |                                |                      |
| 10 dB/div             | Ref 20.00 c   | IBm  |                        |                         |         |               | Μ               | kr1 5.78<br>-2.      | 1 8 GHz<br>90 dBm               | Auto                           | Tune                 |
| 10.0                  |   |  |                        |                         |         |               |                 |                      |                                 | Center<br>5.77500000           |                      |
| -10.0                 |   |  |                        |                         |         | NE WARNEN AND |                 |                      |                                 | Start<br>5.67500000            |                      |
| -20.0                 |   |  |                        |                         |         |               |                 |                      |                                 | <b>Stop</b><br>5.87500000      |                      |
| -40.0                 | n fan en feiter en sterre en serre en s | and the second of the second o |                        |                         |         |               | La Marinety was | Tolom agenting       | inerty-to-so-solateday          | CF<br>20.000000<br><u>Auto</u> | Step<br>0 MHz<br>Man |
| -60.0                 |   |  |                        |                         |         |               |                 |                      |                                 | Freq C                         | Offset<br>0 Hz       |
| -70.0                 | 250 011-  |  |                        |                         |         |               |                 | 0                    |                                 | Scale                          | Type<br>Lin          |
| Center 5.7<br>#Res BW |   |  | #VBW                   | 3.0 MHz                 |         |               | Sween           | Span 2<br>1.000 ms ( | 00.0 101112                     |                                |                      |
| MSG                   | 199 WIL12   |  | ~~ • E) • •            | 0.0 Will2               |         |               | STATI           |                      | roo i pisj                      |                                |                      |
| Mod                   |   |  |                        |                         |         |               | STAT            |                      |                                 |                                |                      |

Plot 7-330. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



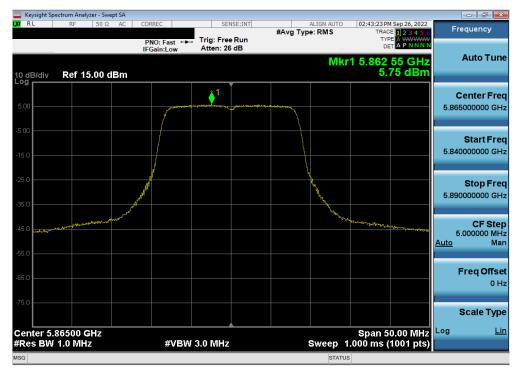
Plot 7-331. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |  |
|---------------------|--------------------|-----------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dawa 407 - 6054 |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 197 of 254 |  |
|                     | <u> </u>           |                                   | V9.0 02/01/2019 |  |



|                       | ectrum Analyzer - Swept S |  |  |                              |   |                          |
|-----------------------|---------------------------|--|--|------------------------------|---|--------------------------|
| LX/RL                 | RF 50 Ω A                 | C CORREC   | SENSE:INT  | ALIGN AUTO<br>#Avg Type: RMS | 02:29:39 PM Sep 26, 2022<br>TRACE 1 2 3 4 5 6   | Frequency                |
|                       |                           | PNO: Fast ↔<br>IFGain:Low  | . Trig: Free Run<br>Atten: 26 dB                       | • 11                         | DET A WWWWW<br>DET A P N N N N  | Auto Tune                |
| 10 dB/div<br>Log      | Ref 15.00 dBr             | n  |  | Mkı                          | 1 5.842 40 GHz<br>5.78 dBm  | Auto Tune                |
|                       |                           |  | <u></u> 1  |                              |   | Center Freq              |
| 5.00                  |                           |  | an de anna a se an |                              |   | 5.845000000 GHz          |
| -5.00                 |                           |  |  |                              |   | Start Freq               |
| -15.0                 |                           |  |  |                              |   | 5.820000000 GHz          |
| -25.0                 |                           |  |  |                              |   | Stop Freq                |
| -35.0                 |                           | - A Contraction of the contracti |  | Nr.                          |   | 5.870000000 GHz          |
|                       |                           | A. C.  |  | No. Contraction              | Marche Wigneline  | CF Step                  |
| -45.0                 |                           |  |  |                              | Contraction of the second s | 5.000000 MHz<br>Auto Man |
|                       |                           |  |  |                              |   | Freq Offset              |
| -65.0                 |                           |  |  |                              |   | 0 Hz                     |
| -75.0                 |                           |  |  |                              |   | Coole Tume               |
|                       |                           |  |  |                              |   | Scale Type               |
| Center 5.8<br>#Res BW | 84500 GHz                 | #\/B\/   | 3.0 MHz  | Swoon                        | Span 50.00 MHz<br>I.000 ms (1001 pts)   | Log <u>Lin</u>           |
|                       |                           | #VDV   | 3.0 WH2  |                              |   |                          |
| MSG                   |                           |  |  | STATU                        | S   |                          |

Plot 7-332. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 169)



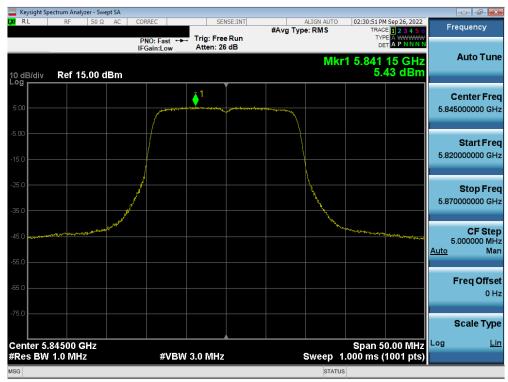
Plot 7-333. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) – Ch. 173)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 109 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 198 of 254                   |
| <b>1</b>            | •                  |                                       | V9.0 02/01/2019                   |



|                  | ectrum Analyzer - Swept SA |                             | 1                      |   | -         |                     |                                  |  |                    | - 0 .            |
|------------------|----------------------------|-----------------------------|------------------------|---|-----------|---------------------|----------------------------------|--|--------------------|------------------|
| LX/IRL           | RF 50 Ω AC                 | CORREC                      |                        |   | #Avg Type | ALIGN AUTO<br>: RMS | TRAC                             | E 1 2 3 4 5 6  | Fred               | quency           |
|                  |                            | PNO: Fast ++-<br>IFGain:Low | Trig: Free Atten: 26 c |   |           |                     | TYP<br>DE                        |  |                    |                  |
| 10 dB/div<br>Log | Ref 15.00 dBm              |                             |                        |   |           | Mkr                 | 1 5.882<br>5.                    | 95 GHz<br>71 dBm   | A                  | uto Tune         |
|                  |                            |                             | Î                      |   |           |                     |                                  |  | Ce                 | nter Freq        |
| 5.00             |                            |                             |                        | , 1400 <b>- 1</b> 900 - 1900 |           |                     |                                  |  | 5.8850             | 00000 GHz        |
| -5.00            |                            |                             |                        |   |           |                     |                                  |  |                    | Start Freq       |
| -15.0            |                            |                             |                        |   | -         |                     |                                  |  | 5.8600             | 00000 GHz        |
| -25.0            |                            | /                           |                        |   | \         | <b>L</b>            |                                  |  | :                  | Stop Freq        |
| -35.0            |                            | <u>/</u>                    |                        |   |           | 4 Horac             |                                  |  | 5.9100             | 00000 GHz        |
|                  | and the second and the     |                             |                        |   |           | New York            | arrive and a farmer              |  |                    | CF Step          |
| -45.0            |                            |                             |                        |   |           |                     |                                  | and the second | 5.0<br><u>Auto</u> | 00000 MHz<br>Man |
|                  |                            |                             |                        |   |           |                     |                                  |  | Fr                 | eq Offset        |
| -65.0            |                            |                             |                        |   |           |                     |                                  |  |                    | 0 Hz             |
| -75.0            |                            |                             |                        |   |           |                     |                                  |  | S                  | cale Type        |
| Center 5         | 88500 GHz                  |                             |                        |   |           |                     | Snan 5                           | 0.00 MHz   | Log                | Lin              |
| #Res BW          |                            | #VBW                        | 3.0 MHz                |   | ę         | Sweep 1.            | <del>- Sp</del> an 5<br>000 ms ( | 1001 pts)  |                    |                  |
| MSG              |                            |                             |                        |   |           | STATUS              |                                  |  |                    |                  |

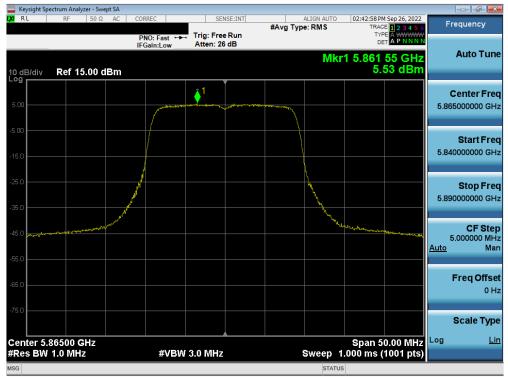
Plot 7-334. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) - Ch. 177)



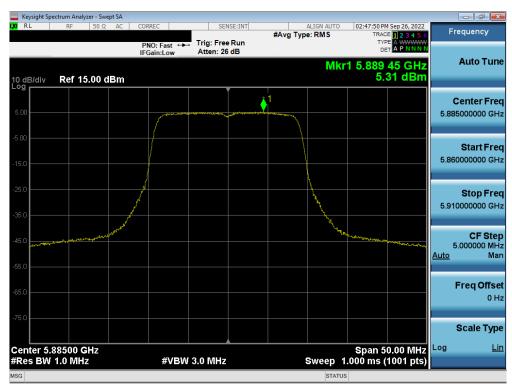
Plot 7-335. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band <sup>3</sup>/<sub>4</sub>) - Ch. 169)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |  |
|---------------------|--------------------|---------------------------------------|-----------------------------------|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 100 of 254                   |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 199 of 254                   |  |
|                     |                    |                                       | V9.0 02/01/2019                   |  |





Plot 7-336. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



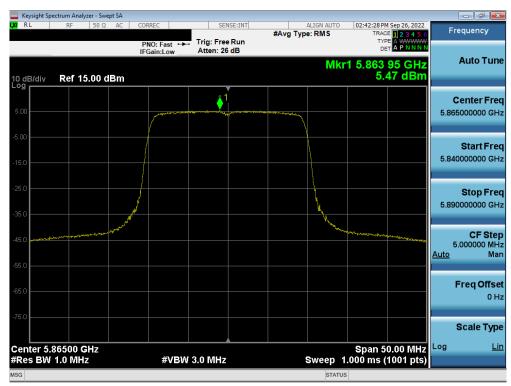
Plot 7-337. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 200 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 200 of 254                   |
|                     | <u> </u>           |                                       | V9.0 02/01/2019                   |



|                             | m Analyzer - Swept SA           |                  |  |                         |             |          |                      |                      |                                 | - 6 ×                                      |
|-----------------------------|---------------------------------|------------------|--|-------------------------|-------------|----------|----------------------|----------------------|---------------------------------|--|
| LXI RL                      | RF 50 Ω A0                      | C CORREC         |  | SEN                     | SE:INT      | #Avg Typ | ALIGN AUTO<br>e: RMS | TRAC                 | 4 Sep 26, 2022<br>E 1 2 3 4 5 6 | Frequency                                  |
|                             |                                 | PNO:<br>IFGair   | Fast ↔<br>h:Low  | Trig: Free<br>Atten: 26 | e Run<br>dB |          |                      | TYF                  |                                 |  |
| 10 dB/div R                 | tef 15.00 dBn                   | n                |  |                         |             |          | Mk                   | r1 5.841<br>5.       | 50 GHz<br>35 dBm                | Auto Tune                                  |
| 5.00                        |                                 |                  | ر مېروند چې رو مورو ور |                         |             | mannan   |                      |                      |                                 | Center Freq<br>5.845000000 GHz             |
| -5.00                       |                                 |                  |  |                         |             |          |                      |                      |                                 | Start Freq<br>5.820000000 GHz              |
| -25.0                       |                                 |                  |  |                         |             |          |                      |                      |                                 | <b>Stop Freq</b><br>5.870000000 GHz        |
| -45.0                       | an and the second second second | 50 <sup>74</sup> |  |                         |             |          |                      | mananan ayan         | Whansold with many              | CF Step<br>5.000000 MHz<br><u>Auto</u> Man |
| -65.0                       |                                 |                  |  |                         |             |          |                      |                      |                                 | <b>Freq Offset</b><br>0 Hz                 |
| -75.0                       |                                 |                  |  |                         |             |          |                      |                      |                                 | Scale Type                                 |
| Center 5.845<br>#Res BW 1.0 |                                 |                  | #VBW   | 3.0 MHz                 |             |          | Sweep                | 5 Span<br>1.000 ms ( | 0.00 MHz<br>1001 pts)           |  |
| MSG                         |                                 |                  |  |                         |             |          | STATU                |                      |                                 |  |

Plot 7-338. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 169)



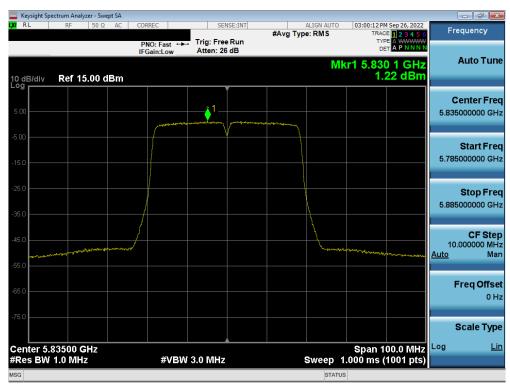
Plot 7-339. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |  |
|---------------------|--------------------|---------------------------------------|-----------------|--|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 201 of 254 |  |  |  |
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|                     | trum Analyzer - Swept S  |                                       |                |  |           |                      |   |  |   |
|---------------------|--|---------------------------------------|----------------|--|-----------|----------------------|---|--|---|
| LXI RL              | RF 50 Ω A  | C CORREC                              |                | ISE:INT  | #Avg Type | ALIGN AUTO<br>e: RMS | TRAC  | 1 Sep 26, 2022<br>E <b>1 2 3 4 5</b> 6 | Frequency   |
| 10 dB/div           | Ref 15.00 dBr  | PNO: Fast<br>IFGain:Low               | Atten: 26      |  |           | Mkr                  | □<br>1 5.882  | 45 GHz<br>31 dBm                       | Auto Tune   |
| 5.00                |  |                                       | ê <sup>1</sup> | water and the state of the stat | marina    |                      |   |  | Center Freq<br>5.885000000 GHz                    |
| -5.00               |  |                                       |                |  |           |                      |   |  | Start Freq<br>5.86000000 GHz                      |
| -25.0               |  | A A A A A A A A A A A A A A A A A A A |                |  |           | L<br>Be<br>Be        |   |  | <b>Stop Freq</b><br>5.910000000 GHz               |
| -45.0               | Langer Contanger and Contang |                                       |                |  |           |                      | an and a second s | Marin Juli de forg                     | <b>CF Step</b><br>5.000000 MHz<br><u>Auto</u> Man |
| -65.0               |  |                                       |                |  |           |                      |   |  | Freq Offset<br>0 Hz                               |
| -75.0<br>Center 5.8 | 8500 GH7   |                                       |                |  |           |                      | Snan 5  | 0.00 MHz                               | Scale Type  |
| #Res BW 1           |  | #VE                                   | 3W 3.0 MHz     |  |           | Sweep 1              | span 5<br>1.000 ms (  | 1001 pts)                              |   |
| MSG                 |  |                                       |                |  |           | STATU                |   |  |   |

Plot 7-340. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)



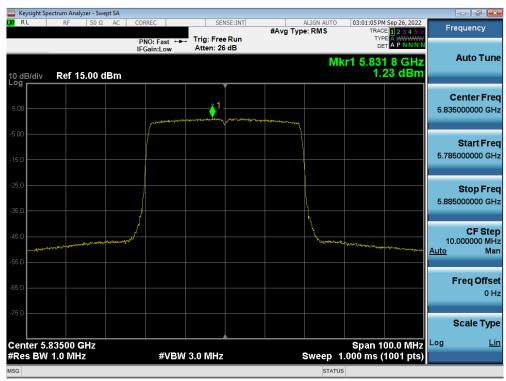
Plot 7-341. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 167)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 202 of 254                   |
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| <b></b>             |                    |                                       | V9.0 02/01/2019                   |



|                       | ctrum Analyzer - Swej   | pt SA   |                       |                         |           |                 |            |                           |  | - 6                                      |
|-----------------------|---|---------|-----------------------|-------------------------|-----------|-----------------|------------|---------------------------|--|--|
| LXU RL                | RF 50 Ω   | AC COR  | REC                   | SEN                     | ISE:INT   | #Avg Typ        | ALIGN AUTO |                           | M Sep 26, 2022   | Frequency                                |
|                       |   |         | IO: Fast ↔<br>ain:Low | Trig: Free<br>Atten: 26 | Run<br>dB |                 |            | TY                        |  |  |
| 10 dB/div             | Ref 15.00 d   | Bm      |                       |                         |           |                 | Μ          | lkr1 5.87<br>1.           | 8 8 GHz<br>11 dBm  | Auto Tur                                 |
| 5.00                  |   |         | pro                   |                         | 1         | and more stated |            |                           |  | Center Fre<br>5.875000000 GH             |
| -5.00                 |   |         |                       |                         |           |                 |            |                           |  | <b>Start Fre</b><br>5.825000000 GH       |
| -25.0                 |   |         |                       |                         |           |                 |            |                           |  | <b>Stop Fre</b><br>5.925000000 GH        |
| -45.0                 | ي منع معرفة ومن المعرفة وم<br>ومن المعرفة ومن | mustant |                       |                         |           |                 | hour       | and frank the bar and the | and the second | CF Ste<br>10.000000 MH<br><u>Auto</u> Ma |
| -65.0                 |   |         |                       |                         |           |                 |            |                           |  | Freq Offs<br>0 ⊦                         |
| -75.0                 |   |         |                       |                         |           |                 |            |                           |  | Scale Typ                                |
| Center 5.8<br>#Res BW | 37500 GHz   |         | #VBM                  | 3.0 MHz                 |           |                 | Sweep      | Span 1<br>1.000 ms (      | 00.0 MHz   | Log <u>L</u>                             |
| MSG                   | 1.0 10112   |         | #VDVV                 | 5.0 10112               |           |                 | SWEEP      |                           | roorpisj   |  |
| Mod                   |   |         |                       |                         |           |                 | STAT       | 03                        |  |  |

Plot 7-342. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)



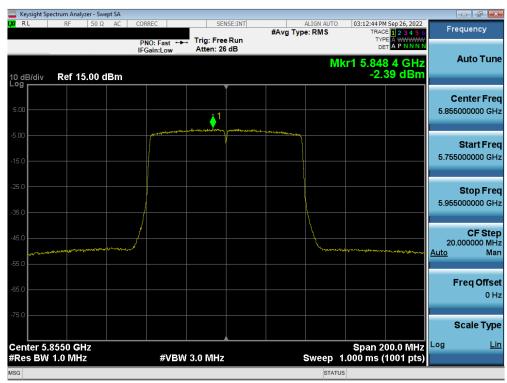
Plot 7-343. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 167)

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |  |
|---------------------|--------------------|---------------------------------------|------------------|--|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dega 202 of 254  |  |  |  |
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|                         | trum Analyzer - Swe   |               |                        |                           |           |             |                      |                         |  | [                  | - • ×                               |
|-------------------------|---|---------------|------------------------|---------------------------|-----------|-------------|----------------------|-------------------------|--|--------------------|-------------------------------------|
| LXI RL                  | RF 50 Ω   | AC COI        | RREC                   |                           | ISE:INT   | #Avg Typ    | ALIGN AUTO<br>e: RMS | TRA                     | M Sep 26, 2022<br>CE <mark>1 2 3 4 5 6</mark>  | Fre                | quency                              |
|                         |   |               | NO: Fast ↔<br>Gain:Low | . Trig: Free<br>Atten: 26 | Run<br>dB |             |                      | TY<br>D                 | PE A WWWWW<br>ET A P N N N N   |                    |                                     |
| 10 dB/div<br>Log        | Ref 15.00 d   | IBm           |                        |                           |           |             | Μ                    | lkr1 5.87<br>1.         | 2 2 GHz<br>40 dBm  |                    | Auto Tune                           |
| 5.00                    |   |               |                        |                           | maranna   | mathematica |                      |                         |  |                    | <b>enter Freq</b><br>000000 GHz     |
| -5.00                   |   |               |                        |                           |           |             |                      |                         |  |                    | <b>Start Freq</b><br>000000 GHz     |
| -25.0                   |   |               |                        |                           |           |             |                      |                         |  |                    | <b>Stop Freq</b><br>000000 GHz      |
| -45.0                   | NJA MARINA CANADANA C | A<br>Annana A |                        |                           |           |             | h.                   | Mar Martin Martin State | and and a second se | 10.<br><u>Auto</u> | <b>CF Step</b><br>000000 MHz<br>Man |
| -65.0                   |   |               |                        |                           |           |             |                      |                         |  | F                  | r <b>eq Offset</b><br>0 Hz          |
| -75.0                   |   |               |                        |                           |           |             |                      |                         |  |                    | Scale Type                          |
| Center 5.8<br>#Res BW 1 |   |               | #VRM                   | 3.0 MHz                   |           |             | Sweep                | Span 1                  | 00.0 MHz<br>(1001 pts)   | Log                | Lin                                 |
|                         | NY IVITI2   |               | <i></i>                | 5.0 10112                 |           |             | STAT                 |                         | (Toor pro)   |                    |                                     |
|                         |   |               |                        |                           |           |             | UNA                  |                         |  |                    |                                     |

Plot 7-344. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)



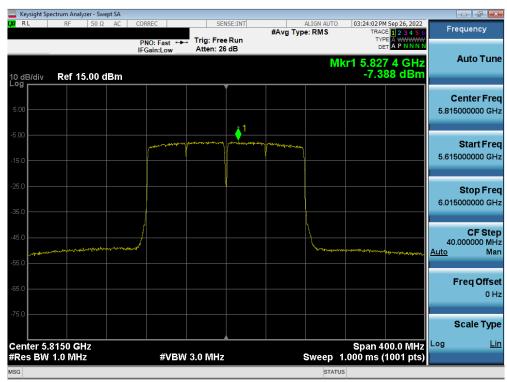
Plot 7-345. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 171)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dama 004 at 054 |
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|                       | ctrum Analyzer - Sw  |           |                          |                           |                       |          |            |  |   |   |
|-----------------------|--|-----------|--------------------------|---------------------------|-----------------------|----------|------------|--|---|---|
| LXI RL                | RF 50 Ω  | AC CO     | DRREC                    |                           | ISE:INT               | #Avg Typ | ALIGN AUTO | TRAC                                     | 4 Sep 26, 2022<br>E 1 2 3 4 5 6   | Frequency                                   |
|                       |  |           | PNO: Fast ↔<br>FGain:Low | , Trig: Free<br>Atten: 26 |                       |          |            | TYI<br>Di                                |   |   |
| 10 dB/div             | Ref 15.00 c  | dBm       |                          |                           |                       |          | N          | lkr1 5.85<br>-2.                         | 9 6 GHz<br>22 dBm   | Auto Tune                                   |
| 5.00                  |  |           |                          |                           | <b>↓</b> <sup>1</sup> |          |            |  |   | Center Fred<br>5.855000000 GH;              |
| -5.00                 |  |           |                          |                           |                       |          |            |  |   | Start Fred<br>5.755000000 GH;               |
| -25.0                 |  |           |                          |                           |                       |          |            |  |   | <b>Stop Fred</b><br>5.955000000 GH;         |
| -45.0                 | and a state of the | awa-munch |                          |                           |                       |          | h harres   | an a | ar generation of the destruction of | CF Step<br>20.000000 MH:<br><u>Auto</u> Mar |
| -65.0                 |  |           |                          |                           |                       |          |            |  |   | Freq Offse<br>0 H:                          |
| -75.0                 |  |           |                          |                           |                       |          |            |  |   | Scale Type                                  |
| Center 5.8<br>#Res BW |  |           | #\/P\/                   | / 3.0 MHz                 |                       |          | Sween      | Span 2                                   | 00.0 101112   | Log <u>Lir</u>                              |
|                       |  |           | #VDV                     | 7 3.0 WINZ                |                       |          |            | 1.000 ms (                               | roor pisj   |   |
| MSG                   |  |           |                          |                           |                       |          | STAT       | US                                       |   |   |

Plot 7-346. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 171)



Plot 7-347. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 163)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
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|                     | ectrum Analyzer - S          |         |                         |  |                            |              |                      |                        |                   |                    | - 0 ×                               |
|---------------------|------------------------------|---------|-------------------------|--|----------------------------|--------------|----------------------|------------------------|-------------------|--------------------|-------------------------------------|
| LX/RL               | RF 50                        | Ω AC CO | RREC                    |  | NSE:INT                    | #Avg Typ     | ALIGN AUTO<br>e: RMS | TRAC                   | E 1 2 3 4 5 6     | Fre                | quency                              |
| 10 dB/div           | Ref 15.00                    | IF      | PNO: Fast ↔<br>Gain:Low | <ul> <li>Trig: Free<br/>Atten: 26</li> </ul> |                            |              | Mk                   | 15.838                 | B 6 GHz<br>92 dBm |                    | Auto Tune                           |
| 5.00                |                              |         |                         |  |                            |              |                      |                        |                   |                    | <b>enter Freq</b><br>000000 GHz     |
| -5.00               |                              |         |                         | gradineti spronet dana - salagi              | perfiguence and a spectrum | Jane Marting |                      |                        |                   |                    | <b>Start Freq</b><br>000000 GHz     |
| -25.0               |                              |         |                         |  |                            |              |                      |                        |                   |                    | <b>Stop Freq</b><br>000000 GHz      |
| -45.0               | and the second second second | aparana |                         |  |                            |              | and a second of      | alanga ganalintang     | waynaan           | 40.<br><u>Auto</u> | <b>CF Step</b><br>000000 MHz<br>Man |
| -65.0               |                              |         |                         |  |                            |              |                      |                        |                   | F                  | <b>req Offset</b><br>0 Hz           |
| -75.0<br>Center 5.3 | 8150 CH2                     |         |                         |  |                            |              |                      | Spap 4                 | 00.0 MHz          | S<br>Log           | cale Type                           |
| #Res BW             |                              |         | #VBW                    | 3.0 MHz                                      |                            | -            | Sweep 1              | 5 span 4.<br>.000 ms ( | 1001 pts)         |                    |                                     |
| MSG                 |                              |         |                         |  |                            |              | STATUS               |                        |                   |                    |                                     |

Plot 7-348. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band <sup>3</sup>/<sub>4</sub>) – Ch. 163)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 200 of 254  |
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Note:

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

# Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.49 dBm for Antenna 1 and 6.01 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(5.49 dBm + 6.01 dBm) = (3.54 mW + 3.99 mW) = 7.54 mW = 8.77 dBm

# Sample e.i.r.p Power Spectral Density Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 8.77 dBm with directional gain of 0.10 dBi.

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

8.77 dBm + -1.03 dBi = 7.74 dBm

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# 7.6 Radiated Spurious Emission Measurements – Above 1GHz §15.407(b) §15.205 §15.209; RSS-Gen [8.9]

#### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), 802.11ac (80MHz), and 802.11ax (160MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-22 per Section 15.209 and RSS-Gen (8.9).

| Frequency       | Field Strength<br>[μV/m] | Measured Distance<br>[Meters] |
|-----------------|--------------------------|-------------------------------|
| Above 960.0 MHz | 500                      | 3                             |

Table 7-22. Radiated Limits

# Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 KDB 789033 D02 v02r01 – Section G KDB 271094 D02 Section 2.9

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# Test Settings

# Average Measurements above 1GHz (Method AD)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

# Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

# Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = 120kHz
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

# Test Setup

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

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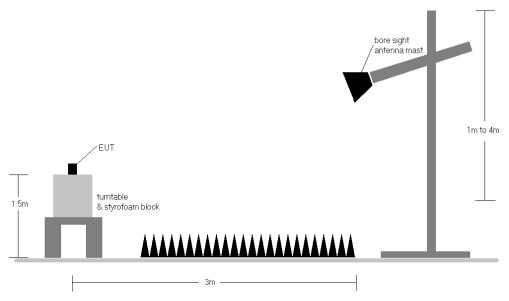


Figure 7-5. Test Instrument & Measurement Setup

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
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# Test Notes

- 1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-22.
- 2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-22. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
- 8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

# **Sample Calculations**

# **Determining Spurious Emissions Levels**

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

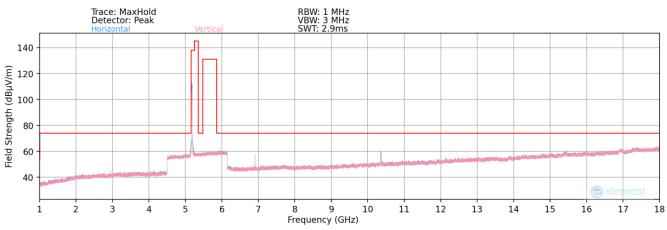
# Radiated Band Edge Measurement Offset

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

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

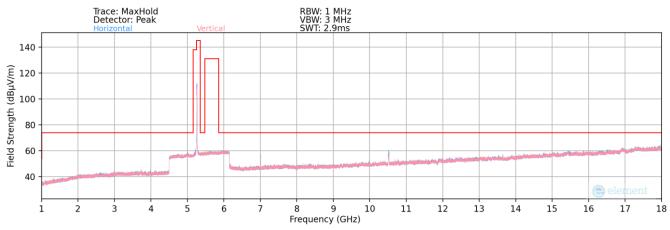
| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dama 011 at 051                   |
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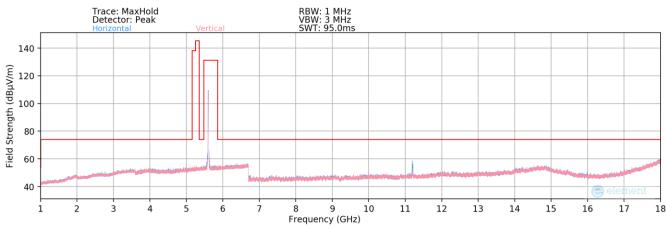


# 7.6.1 MIMO Radiated Spurious Emission Measurements





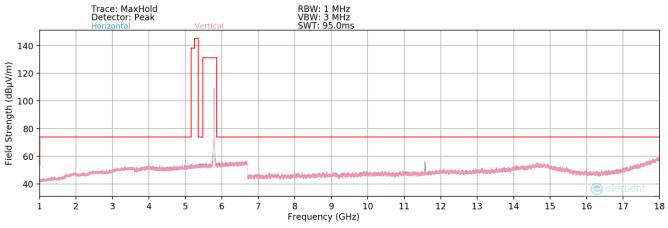




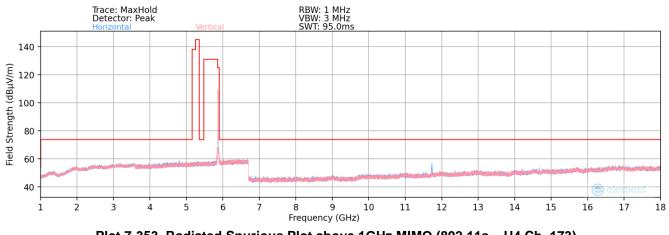
Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 120)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dogo 242 of 254 |
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|                     |                    |                                   | V9.0 02/01/2019 |







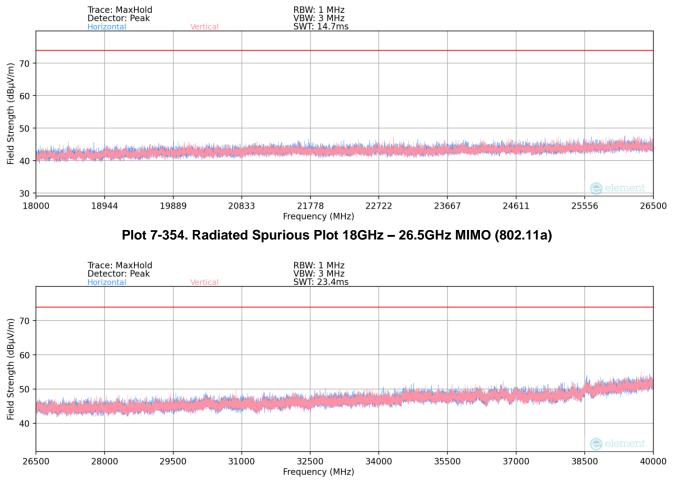


Plot 7-353. Radiated Spurious Plot above 1GHz MIMO (802.11a - U4 Ch. 173)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 212 of 254  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 213 of 254  |
|                     |                    |                                   | \/0.0.02/01/2010 |



# MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-355. Radiated Spurious Plot 26.5GHz – 40GHz MIMO (802.11a)

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 214 of 254  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 214 of 254  |
|                     |                    |                                   | \/9.0.02/01/2019 |



# MIMO Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209

| Worst Case Mode:          | 802.11a      |  |  |  |
|---------------------------|--------------|--|--|--|
| Worst Case Transfer Rate: | 6Mbps        |  |  |  |
| Distance of Measurements: | 1 & 3 Meters |  |  |  |
| Operating Frequency:      | 5180MHz      |  |  |  |
| Channel:                  | 36           |  |  |  |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correctio<br>n Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---|-------------------------------|-------------------|----------------|
|   | 6906.5             | Peak     | н                     | 312                       | 240                              | -58.31                     | 11.45          | 0.00                                      | 60.14                         | 68.20             | -8.06          |
|   | 10360.00           | Peak     | Н                     | 229                       | 60                               | -50.62                     | 8.74           | 0.00                                      | 65.12                         | 68.20             | -3.08          |
| * | 15540.00           | Average  | Н                     | -                         | -                                | -77.76                     | 10.23          | 0.00                                      | 39.47                         | 53.98             | -14.51         |
| * | 15540.00           | Peak     | Н                     | -                         | -                                | -65.80                     | 10.23          | 0.00                                      | 51.43                         | 73.98             | -22.55         |
| * | 20720.00           | Average  | Н                     | 150                       | 329                              | -65.99                     | 3.37           | -9.54                                     | 34.84                         | 53.98             | -19.14         |
| * | 20720.00           | Peak     | н                     | 150                       | 329                              | -55.19                     | 3.37           | -9.54                                     | 45.64                         | 73.98             | -28.34         |
|   | 25900.00           | Peak     | н                     | -                         | -                                | -54.89                     | 4.84           | -9.54                                     | 47.40                         | 68.20             | -20.80         |

# Table 7-23. Radiated Measurements MIMO

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

| 802.11a      |
|--------------|
| 6Mbps        |
| 1 & 3 Meters |
| 5200MHz      |
| 40           |
|              |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correctio<br>n Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---|-------------------------------|-------------------|----------------|
|   | 10400.00           | Peak     | н                     | 239                       | 40                               | -51.31                     | 9.31           | 0.00                                      | 65.00                         | 68.20             | -3.20          |
| * | 15600.00           | Average  | н                     | -                         | -                                | -77.67                     | 9.27           | 0.00                                      | 38.60                         | 53.98             | -15.38         |
| * | 15600.00           | Peak     | н                     | -                         | -                                | -65.16                     | 9.27           | 0.00                                      | 51.11                         | 73.98             | -22.87         |
| * | 20800.00           | Average  | н                     | 150                       | 336                              | -65.57                     | 3.43           | -9.54                                     | 35.31                         | 53.98             | -18.67         |
| * | 20800.00           | Peak     | Н                     | 150                       | 336                              | -54.36                     | 3.43           | -9.54                                     | 46.52                         | 73.98             | -27.46         |
|   | 26000.00           | Peak     | Н                     | -                         | -                                | -55.53                     | 4.89           | -9.54                                     | 46.82                         | 68.20             | -21.38         |

# Table 7-24. Radiated Measurements MIMO

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|--------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 215 of 254 |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 215 of 254 |  |  |
|                     |                    |                                       | V9.0 02/01/2019 |  |  |



| Worst Case Mode:          | 802.11a      |  |  |  |
|---------------------------|--------------|--|--|--|
| Worst Case Transfer Rate: | 6Mbps        |  |  |  |
| Distance of Measurements: | 1 & 3 Meters |  |  |  |
| Operating Frequency:      | 5240MHz      |  |  |  |
| Channel:                  | 48           |  |  |  |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correctio<br>n Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---|-------------------------------|-------------------|----------------|
|   | 10480.00           | Peak     | Н                     | 229                       | 40                               | -50.45                     | 8.61           | 0.00                                      | 65.16                         | 68.20             | -3.04          |
| * | 15720.00           | Average  | Н                     | -                         | -                                | -77.67                     | 9.39           | 0.00                                      | 38.72                         | 53.98             | -15.26         |
| * | 15720.00           | Peak     | н                     | -                         | -                                | -65.35                     | 9.39           | 0.00                                      | 51.04                         | 73.98             | -22.94         |
| * | 20960.00           | Average  | Н                     | 150                       | 12                               | -66.58                     | 3.50           | -9.54                                     | 34.38                         | 53.98             | -19.60         |
| * | 20960.00           | Peak     | н                     | 150                       | 12                               | -56.10                     | 3.50           | -9.54                                     | 44.86                         | 73.98             | -29.12         |
|   | 26200.00           | Peak     | Н                     | -                         | -                                | -55.68                     | 4.72           | -9.54                                     | 46.50                         | 68.20             | -21.70         |

Table 7-25. Radiated Measurements MIMO

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

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correctio<br>n Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---|-------------------------------|-------------------|----------------|
|   | 10480.00           | Peak     | н                     | 158                       | 197                              | -60.82                     | 16.14          | 0.00                                      | 62.32                         | 68.20             | -5.88          |
| * | 15720.00           | Average  | Н                     | -                         | -                                | -81.34                     | 22.67          | 0.00                                      | 48.33                         | 53.98             | -5.65          |
| * | 15720.00           | Peak     | н                     | -                         | -                                | -71.39                     | 22.67          | 0.00                                      | 58.28                         | 73.98             | -15.70         |
| * | 20960.00           | Average  | Н                     | -                         | -                                | -66.89                     | 3.50           | -9.54                                     | 34.07                         | 53.98             | -19.91         |
| * | 20960.00           | Peak     | н                     | -                         | -                                | -56.24                     | 3.50           | -9.54                                     | 44.72                         | 73.98             | -29.26         |
|   | 26200.00           | Peak     | н                     | -                         | -                                | -55.52                     | 4.72           | -9.54                                     | 46.66                         | 68.20             | -21.54         |

Table 7-26. Radiated Measurements MIMO with WCP

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Page 216 of 254  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Faye 210 01 204  |
|                     |                    |                                   | 1/0 0 00/01/0010 |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5260MHz      |
| Channel:                  | 52           |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
|   | 7013.5             | Peak     | н                     | 310                       | 292                              | -58.87                     | 11.56          | 0.00                                     | 59.69                         | 68.20             | -8.51          |
|   | 10520.00           | Peak     | Н                     | 210                       | 29                               | -50.51                     | 7.91           | 0.00                                     | 64.40                         | 68.20             | -3.80          |
| * | 15780.00           | Average  | н                     | 165                       | 47                               | -77.37                     | 9.19           | 0.00                                     | 38.82                         | 53.98             | -15.16         |
| * | 15780.00           | Peak     | н                     | 165                       | 47                               | -64.73                     | 9.19           | 0.00                                     | 51.46                         | 73.98             | -22.52         |
| * | 21040.00           | Average  | н                     | -                         | -                                | -66.49                     | 3.56           | -9.54                                    | 34.53                         | 53.98             | -19.45         |
| * | 21040.00           | Peak     | н                     | -                         | -                                | -56.17                     | 3.56           | -9.54                                    | 44.85                         | 73.98             | -29.13         |
|   | 26300.00           | Peak     | Н                     | -                         | -                                | -55.49                     | 4.68           | -9.54                                    | 46.65                         | 68.20             | -21.55         |

Table 7-27. Radiated Measurements MIMO

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

| 802.11a      |  |
|--------------|--|
| 6Mbps        |  |
| 1 & 3 Meters |  |
| 5280MHz      |  |
| 56           |  |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
|   | 10560.00           | Peak     | н                     | 230                       | 38                               | -50.06                     | 8.05           | 0.00                                     | 64.99                         | 68.20             | -3.21          |
| * | 15840.00           | Average  | Н                     | -                         | -                                | -78.04                     | 9.10           | 0.00                                     | 38.06                         | 53.98             | -15.92         |
| * | 15840.00           | Peak     | н                     | -                         | -                                | -66.10                     | 9.10           | 0.00                                     | 50.00                         | 73.98             | -23.98         |
| * | 21120.00           | Average  | Н                     | -                         | -                                | -66.25                     | 3.66           | -9.54                                    | 34.87                         | 53.98             | -19.11         |
| * | 21120.00           | Peak     | Н                     | -                         | -                                | -55.68                     | 3.66           | -9.54                                    | 45.44                         | 73.98             | -28.54         |
|   | 26400.00           | Peak     | Н                     | -                         | -                                | -55.87                     | 4.56           | -9.54                                    | 46.14                         | 68.20             | -22.06         |

Table 7-28. Radiated Measurements MIMO

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                  |
|---------------------|--------------------|-----------------------------------|------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dega 217 of 254  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 217 of 254  |
|                     |                    |                                   | 1/0 0 00/04/0040 |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5320MHz      |
| Channel:                  | 64           |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 10640.00           | Average  | Н                     | 229                       | 39                               | -64.27                     | 8.17           | 0.00                                     | 50.90                         | 53.98             | -3.08          |
| * | 10640.00           | Peak     | Н                     | 229                       | 39                               | -50.05                     | 8.17           | 0.00                                     | 65.12                         | 73.98             | -8.86          |
| * | 15960.00           | Average  | н                     | -                         | -                                | -77.60                     | 8.86           | 0.00                                     | 38.26                         | 53.98             | -15.72         |
| * | 15960.00           | Peak     | н                     | -                         | -                                | -65.34                     | 8.86           | 0.00                                     | 50.52                         | 73.98             | -23.46         |
| * | 21280.00           | Average  | н                     | -                         | -                                | -66.47                     | 3.77           | -9.54                                    | 34.76                         | 53.98             | -19.22         |
| * | 21280.00           | Peak     | Н                     | -                         | -                                | -55.83                     | 3.77           | -9.54                                    | 45.40                         | 73.98             | -28.58         |
|   | 26600.00           | Peak     | Н                     | -                         | -                                | -56.27                     | 4.58           | -9.54                                    | 45.77                         | 68.20             | -22.43         |

Table 7-29. Radiated Measurements MIMO

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

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 10640.00           | Average  | Н                     | 205                       | 159                              | -73.12                     | 16.49          | 0.00                                     | 50.37                         | 53.98             | -3.61          |
| * | 10640.00           | Peak     | Н                     | 205                       | 159                              | -61.35                     | 16.49          | 0.00                                     | 62.14                         | 73.98             | -11.84         |
| * | 15960.00           | Average  | Н                     | -                         | -                                | -82.72                     | 23.77          | 0.00                                     | 48.06                         | 53.98             | -5.92          |
| * | 15960.00           | Peak     | Н                     | -                         | -                                | -70.15                     | 23.77          | 0.00                                     | 60.63                         | 73.98             | -13.35         |
| * | 21280.00           | Average  | Н                     | -                         | -                                | -66.32                     | 3.77           | -9.54                                    | 34.91                         | 53.98             | -19.07         |
| * | 21280.00           | Peak     | Н                     | -                         | -                                | -56.27                     | 3.77           | -9.54                                    | 44.96                         | 73.98             | -29.02         |
|   | 26600.00           | Peak     | Н                     | -                         | -                                | -55.74                     | 4.58           | -9.54                                    | 46.30                         | 68.20             | -21.90         |

# Table 7-30. Radiated Measurements MIMO with WCP

| FCC ID: A3LSMS916U  |                    | Approved by:<br>Technical Manager |                 |
|---------------------|--------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                         | Dage 210 of 254 |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                  | Page 218 of 254 |
|                     |                    |                                   | V9.0 02/01/2019 |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5500MHz      |
| Channel:                  | 100          |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11000.00           | Average  | н                     | 225                       | 36                               | -65.00                     | 8.07           | 0.00                                     | 50.07                         | 53.98             | -3.91          |
| * | 11000.00           | Peak     | н                     | 225                       | 36                               | -51.26                     | 8.07           | 0.00                                     | 63.81                         | 73.98             | -10.17         |
|   | 16500.00           | Peak     | Н                     | 119                       | 49                               | -63.49                     | 8.78           | 0.00                                     | 52.29                         | 68.20             | -15.91         |
|   | 22000.00           | Peak     | н                     | 150                       | 26                               | -56.40                     | 3.80           | -9.54                                    | 44.86                         | 68.20             | -23.34         |
|   | 27500.00           | Peak     | Н                     | -                         | -                                | -55.33                     | 4.79           | -9.54                                    | 46.91                         | 68.20             | -21.29         |

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5500MHz 100

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11000.00           | Average  | Н                     | 176                       | 182                              | -74.82                     | 17.19          | 0.00                                     | 49.37                         | 53.98             | -4.61          |
| * | 11000.00           | Peak     | Н                     | 176                       | 182                              | -63.43                     | 17.19          | 0.00                                     | 60.76                         | 73.98             | -13.22         |
|   | 16500.00           | Peak     | Н                     | -                         | -                                | -71.04                     | 24.40          | 0.00                                     | 60.36                         | 68.20             | -7.84          |
|   | 22000.00           | Peak     | н                     | 150                       | 49                               | -55.78                     | 3.80           | -9.54                                    | 45.48                         | 68.20             | -22.72         |
|   | 27500.00           | Peak     | Н                     | -                         | -                                | -55.32                     | 4.79           | -9.54                                    | 46.92                         | 68.20             | -21.28         |

Table 7-32. Radiated Measurements MIMO with WCP

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 210 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 219 of 254                   |
|                     |                    |                                       | 1/0 0 02/01/2010                  |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5600MHz      |
| Channel:                  | 120          |
|                           |              |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11200.00           | Average  | н                     | 185                       | 32                               | -67.36                     | 8.67           | 0.00                                     | 48.31                         | 53.98             | -5.67          |
| * | 11200.00           | Peak     | Н                     | 185                       | 32                               | -54.37                     | 8.67           | 0.00                                     | 61.30                         | 73.98             | -12.68         |
|   | 16800.00           | Peak     | н                     | 144                       | 22                               | -62.18                     | 9.37           | 0.00                                     | 54.19                         | 68.20             | -14.01         |
| * | 22400.00           | Average  | н                     | -                         | -                                | -66.08                     | 3.90           | -9.54                                    | 35.28                         | 53.98             | -18.70         |
| * | 22400.00           | Peak     | н                     | -                         | -                                | -55.67                     | 3.90           | -9.54                                    | 45.69                         | 73.98             | -28.29         |
|   | 28000.00           | Peak     | Н                     | -                         | -                                | -55.69                     | 5.18           | -9.54                                    | 46.95                         | 68.20             | -21.25         |

Table 7-33. Radiated Measurements MIMO

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5720MHz 144

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11440.00           | Average  | н                     | 203                       | 34                               | -70.04                     | 8.63           | 0.00                                     | 45.59                         | 53.98             | -8.39          |
| * | 11440.00           | Peak     | Н                     | 203                       | 34                               | -57.63                     | 8.63           | 0.00                                     | 58.00                         | 73.98             | -15.98         |
|   | 17160.00           | Peak     | Н                     | 206                       | 11                               | -62.05                     | 11.15          | 0.00                                     | 56.10                         | 68.20             | -12.10         |
| * | 22880.00           | Average  | Н                     | -                         | -                                | -65.85                     | 3.82           | -9.54                                    | 35.43                         | 53.98             | -18.55         |
| * | 22880.00           | Peak     | Н                     | -                         | -                                | -55.61                     | 3.82           | -9.54                                    | 45.67                         | 73.98             | -28.31         |
|   | 28600.00           | Peak     | Н                     | -                         | -                                | -55.16                     | 5.43           | -9.54                                    | 47.73                         | 68.20             | -20.47         |

Table 7-34. Radiated Measurements MIMO

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dogo 220 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 220 of 254                   |
|                     |                    |                                       | \/0.0.02/01/2010                  |



| Worst Case Mode:          | 802.11a      |  |  |  |
|---------------------------|--------------|--|--|--|
| Worst Case Transfer Rate: | 6Mbps        |  |  |  |
| Distance of Measurements: | 1 & 3 Meters |  |  |  |
| Operating Frequency:      | 5745MHz      |  |  |  |
| Channel:                  | 149          |  |  |  |
| Channel:                  | 149          |  |  |  |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11490.00           | Average  | н                     | 208                       | 31                               | -70.69                     | 8.37           | 0.00                                     | 44.68                         | 53.98             | -9.30          |
| * | 11490.00           | Peak     | Н                     | 208                       | 31                               | -56.92                     | 8.37           | 0.00                                     | 58.45                         | 73.98             | -15.53         |
|   | 17235.00           | Peak     | н                     | 174                       | 11                               | -62.40                     | 11.67          | 0.00                                     | 56.27                         | 68.20             | -11.93         |
| * | 22980.00           | Average  | н                     | -                         | -                                | -66.44                     | 3.76           | -9.54                                    | 34.78                         | 53.98             | -19.20         |
| * | 22980.00           | Peak     | н                     | -                         | -                                | -55.12                     | 3.76           | -9.54                                    | 46.10                         | 73.98             | -27.88         |
|   | 28725.00           | Peak     | Н                     | -                         | -                                | -55.98                     | 5.46           | -9.54                                    | 46.94                         | 68.20             | -21.26         |

Table 7-35. Radiated Measurements MIMO

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5785MHz 157

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11570.00           | Average  | н                     | 239                       | 45                               | -71.16                     | 8.50           | 0.00                                     | 44.34                         | 53.98             | -9.64          |
| * | 11570.00           | Peak     | н                     | 239                       | 45                               | -57.33                     | 8.50           | 0.00                                     | 58.17                         | 73.98             | -15.81         |
|   | 17355.00           | Peak     | н                     | 109                       | 50                               | -62.75                     | 12.72          | 0.00                                     | 56.97                         | 68.20             | -11.23         |
|   | 23140.00           | Peak     | Н                     | -                         | -                                | -55.71                     | 3.80           | -9.54                                    | 45.54                         | 68.20             | -22.66         |
|   | 28925.00           | Peak     | Н                     | -                         | -                                | -56.53                     | 5.51           | -9.54                                    | 46.44                         | 68.20             | -21.76         |

Table 7-36. Radiated Measurements MIMO

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Page 221 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 221 01 254                   |
|                     |                    |                                       | \/0.0.02/01/2010                  |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5825MHz      |
| Channel:                  | 165          |
|                           |              |

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11650.00           | Average  | н                     | 239                       | 57                               | -70.41                     | 8.74           | 0.00                                     | 45.33                         | 53.98             | -8.65          |
| * | 11650.00           | Peak     | Н                     | 239                       | 57                               | -56.92                     | 8.74           | 0.00                                     | 58.82                         | 73.98             | -15.16         |
|   | 17475.00           | Peak     | н                     | 208                       | 48                               | -62.32                     | 13.55          | 0.00                                     | 58.23                         | 68.20             | -9.97          |
|   | 23300.00           | Peak     | н                     | -                         | -                                | -55.81                     | 3.74           | -9.54                                    | 45.38                         | 68.20             | -22.82         |
|   | 29125.00           | Peak     | Н                     | -                         | -                                | -55.68                     | 5.67           | -9.54                                    | 47.44                         | 68.20             | -20.76         |

Table 7-37. Radiated Measurements MIMO

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5825MHz 165

|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11650.00           | Average  | н                     | 224                       | 159                              | -80.33                     | 17.77          | 0.00                                     | 44.44                         | 53.98             | -9.54          |
| * | 11650.00           | Peak     | н                     | 224                       | 159                              | -66.39                     | 17.77          | 0.00                                     | 58.38                         | 73.98             | -15.60         |
|   | 17475.00           | Peak     | н                     | -                         | -                                | -69.73                     | 25.47          | 0.00                                     | 62.74                         | 68.20             | -5.46          |
|   | 23300.00           | Peak     | н                     | -                         | -                                | -55.91                     | 3.74           | -9.54                                    | 45.28                         | 68.20             | -22.92         |
|   | 29125.00           | Peak     | Н                     | -                         | -                                | -55.72                     | 5.67           | -9.54                                    | 47.40                         | 68.20             | -20.80         |

Table 7-38. Radiated Measurements MIMO with WCP

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) |                  |  |  |  |
|---------------------|--------------------|---------------------------------------|------------------|--|--|--|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Dage 202 of 254  |  |  |  |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 222 of 254  |  |  |  |
|                     |                    |                                       | \/0.0.02/01/2010 |  |  |  |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5845MHz      |
| Channel:                  | 169          |

|   | Frequency<br>[MHz] | Detector | Ant. Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11690.00           | Average  | н                  | 153                       | 329                              | -69.78                     | 9.31           | 0.00                                     | 46.53                         | 53.98             | -7.45          |
| * | 11690.00           | Peak     | Н                  | 153                       | 329                              | -57.41                     | 9.31           | 0.00                                     | 58.90                         | 73.98             | -15.08         |
|   | 17535.00           | Peak     | Н                  | 225                       | 49                               | -62.73                     | 14.18          | 0.00                                     | 58.45                         | 68.20             | -9.75          |
|   | 23380.00           | Peak     | Н                  | -                         | -                                | -55.79                     | 3.76           | -9.54                                    | 54.97                         | 68.20             | -13.23         |
|   | 29225.00           | Peak     | Н                  | -                         | -                                | -55.17                     | 5.66           | -9.54                                    | 57.49                         | 68.20             | -10.71         |
|   | 35070.00           | Peak     | Н                  | -                         | -                                | -53.69                     | 7.69           | -9.54                                    | 61.00                         | 68.20             | -7.20          |

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

| 802.11a      |
|--------------|
| 6Mbps        |
| 1 & 3 Meters |
| 5865MHz      |
| 173          |

|   | Frequency<br>[MHz] | Detector | Ant. Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11730.00           | Average  | н                  | 235                       | 53                               | -70.69                     | 9.22           | 0.00                                     | 45.53                         | 53.98             | -8.45          |
| * | 11730.00           | Peak     | н                  | 235                       | 53                               | -56.79                     | 9.22           | 0.00                                     | 59.43                         | 73.98             | -14.55         |
|   | 17595.00           | Peak     | н                  | 207                       | 52                               | -63.24                     | 14.38          | 0.00                                     | 58.14                         | 68.20             | -10.06         |
|   | 23460.00           | Peak     | н                  | -                         | -                                | -56.13                     | 3.76           | -9.54                                    | 54.63                         | 68.20             | -13.57         |
|   | 29325.00           | Peak     | н                  | -                         | -                                | -55.24                     | 5.90           | -9.54                                    | 57.66                         | 68.20             | -10.54         |
|   | 35190.00           | Peak     | н                  | -                         | -                                | -53.76                     | 7.78           | -9.54                                    | 61.02                         | 68.20             | -7.18          |

 Table 7-40. Radiated Measurements MIMO

| FCC ID: A3LSMS916U  |                    | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|--------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:        | EUT Type:                             | Daga 222 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022 | Portable Handset                      | Page 223 of 254                   |
|                     |                    |                                       | \/0.0.02/01/2010                  |



| Worst Case Mode:          | 802.11a      |
|---------------------------|--------------|
| Worst Case Transfer Rate: | 6Mbps        |
| Distance of Measurements: | 1 & 3 Meters |
| Operating Frequency:      | 5885MHz      |
| Channel:                  | 177          |

|   | Frequency<br>[MHz] | Detector | Ant. Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11770.00           | Average  | н                  | 221                       | 60                               | -70.59                     | 10.00          | 0.00                                     | 46.41                         | 53.98             | -7.57          |
| * | 11770.00           | Peak     | Н                  | 221                       | 60                               | -56.12                     | 10.00          | 0.00                                     | 60.88                         | 73.98             | -13.10         |
|   | 17655.00           | Peak     | Н                  | 346                       | 181                              | -64.81                     | 14.79          | 0.00                                     | 56.98                         | 68.20             | -11.22         |
|   | 23540.00           | Peak     | н                  | -                         | -                                | -55.48                     | 3.80           | -9.54                                    | 55.32                         | 68.20             | -12.88         |
|   | 29425.00           | Peak     | Н                  | -                         | -                                | -55.78                     | 5.83           | -9.54                                    | 57.05                         | 68.20             | -11.15         |
|   | 35310.00           | Peak     | н                  | -                         | -                                | -54.60                     | 7.90           | -9.54                                    | 60.30                         | 68.20             | -7.90          |

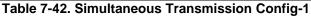
Table 7-41. Radiated Measurements MIMO

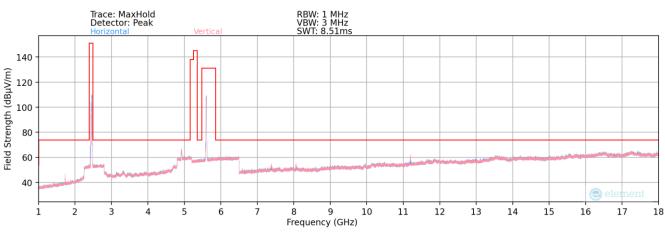
| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 224 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 224 of 254                   |
|                     |                                       |                  | \/9.0.02/01/2019                  |



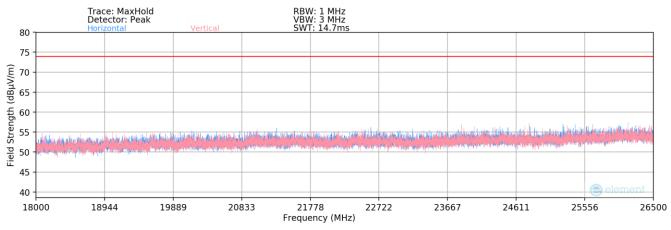
# 7.6.2 Simultaneous Tx Radiated Spurious Emissions Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

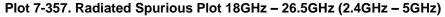
| Description               | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna                   | 1, 2             | 1, 2           |
| Channel                   | 11               | 120            |
| Operating Frequency (MHz) | 2462             | 5600           |
| Data Rate (Mbps)          | 1Mbps            | 6Mbps          |
| Mode                      | 802.11b          | 802.11a        |





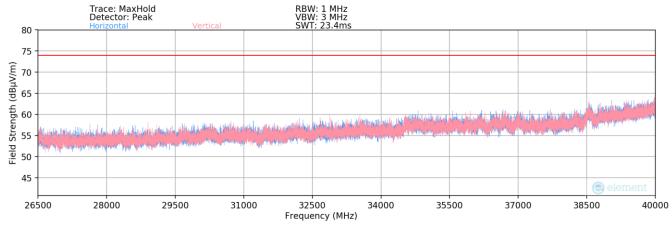






| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 225 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 225 of 254                   |
|                     | ·                                     |                  | V9.0 02/01/2019                   |







|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 3814.00            | Avg      | V                     | -                         | -                                | -80.89                     | 8.17           | 0.00                                     | 34.28                         | 53.98             | -19.70         |
| * | 3814.00            | Peak     | V                     | -                         | -                                | -68.77                     | 8.17           | 0.00                                     | 46.40                         | 73.98             | -27.58         |
|   | 6952.00            | Peak     | V                     | -                         | -                                | -70.51                     | 14.86          | 0.00                                     | 51.35                         | 68.20             | -16.85         |
|   | 8738.00            | Peak     | V                     | -                         | -                                | -71.37                     | 17.71          | 0.00                                     | 53.34                         | 68.20             | -14.86         |
| * | 11876.00           | Avg      | V                     | 349                       | 272                              | -84.13                     | 23.55          | 0.00                                     | 46.42                         | 53.98             | -7.56          |
| * | 11876.00           | Peak     | V                     | 349                       | 272                              | -71.61                     | 23.55          | 0.00                                     | 58.94                         | 73.98             | -15.04         |
| * | 18152.00           | Avg      | V                     | -                         | -                                | -63.99                     | 1.37           | -9.54                                    | 34.84                         | 53.98             | -19.14         |
| * | 18152.00           | Peak     | V                     | -                         | -                                | -54.27                     | 1.37           | -9.54                                    | 44.55                         | 73.98             | -29.43         |

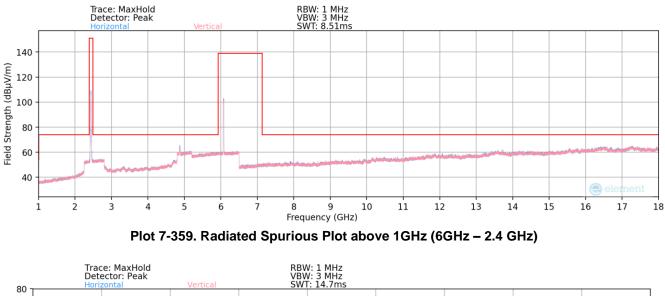
Table 7-43. Radiated Measurements (2.4GHz - 5GHz)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dega 200 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 226 of 254                   |
|                     |                                       |                  | 1/0 0 02/01/2010                  |

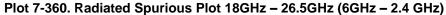


| Description               | 2.4 GHz Emission | 6 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna                   | 1, 2             | 1, 2           |
| Channel                   | 6                | 25             |
| Operating Frequency (MHz) | 2437             | 6075           |
| Data Rate (Mbps)          | 1Mbps            | 6Mbps          |
| Mode                      | 802.11b          | 802.11a        |

| Table 7-44. Simultar | eous Transmission Config-2 |
|----------------------|----------------------------|
|----------------------|----------------------------|

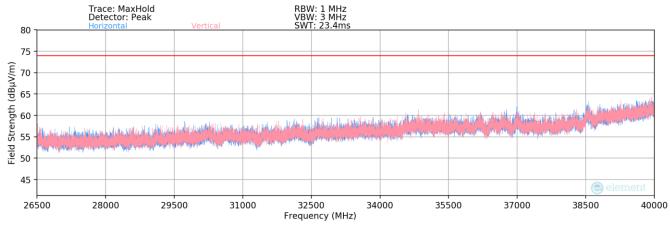


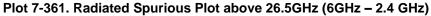




| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dogo 227 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 227 of 254                   |
|                     |                                       |                  | \/9.0.02/01/2019                  |







|   | Frequency<br>[MHz] | Detector | Ant.<br>Pol.<br>[H/V] | Antenna<br>Height<br>[cm] | Turntable<br>Azimuth<br>[degree] | Analyzer<br>Level<br>[dBm] | AFCL<br>[dB/m] | Distance<br>Correction<br>Factor<br>[dB] | Field<br>Strength<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 1201.00            | Avg      | н                     | -                         | -                                | -78.01                     | -2.06          | 0.00                                     | 26.93                         | 53.98             | -27.05         |
| * | 1201.00            | Peak     | Н                     | -                         | -                                | -67.91                     | -2.06          | 0.00                                     | 37.03                         | 73.98             | -36.95         |
| * | 4839.00            | Avg      | Н                     | -                         | -                                | -81.87                     | 19.99          | 0.00                                     | 45.12                         | 53.98             | -8.86          |
| * | 4839.00            | Peak     | Н                     | -                         | -                                | -70.06                     | 19.99          | 0.00                                     | 56.93                         | 73.98             | -17.05         |
| * | 8477.00            | Avg      | Н                     | -                         | -                                | -83.84                     | 16.34          | 0.00                                     | 39.50                         | 53.98             | -14.48         |
| * | 8477.00            | Peak     | Н                     | -                         | -                                | -71.14                     | 16.34          | 0.00                                     | 52.20                         | 73.98             | -21.78         |
|   | 9713.00            | Peak     | Н                     | -                         | -                                | -71.65                     | 19.43          | 0.00                                     | 54.78                         | 68.20             | -13.42         |
| * | 20627.00           | Avg      | Н                     | -                         | -                                | -64.71                     | 3.28           | -9.54                                    | 36.03                         | 53.98             | -17.95         |
| * | 20627.00           | Peak     | Н                     | -                         | -                                | -55.71                     | 3.28           | -9.54                                    | 45.03                         | 73.98             | -28.95         |

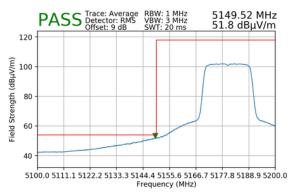
Table 7-45. Radiated Measurements (6GHz – 2.4GHz)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dage 228 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 228 of 254                   |
|                     |                                       |                  | 1/0 0 02/01/2010                  |



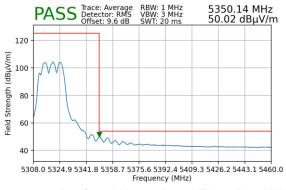
# 7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

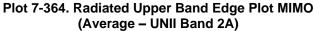
| Worst Case Mode:          | 802.11ax |
|---------------------------|----------|
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5180MHz  |
| Channel:                  | 36       |

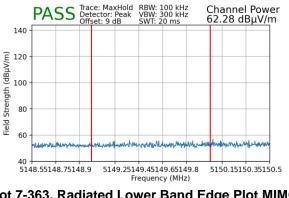


Plot 7-362. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

| Worst Case Mode:          | 802.11a  |
|---------------------------|----------|
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5320MHz  |
| Channel:                  | 64       |





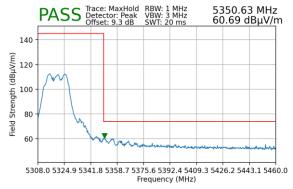


PASS

**Channel Power** 

62.28 dBµV/m

Plot 7-363. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)



Plot 7-365. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dogo 220 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 229 of 254                   |
| <b></b>             | •                                     |                  | V9.0 02/01/2019                   |

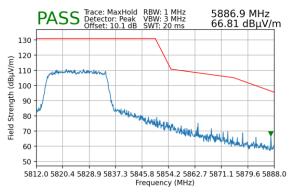


| Worst Case Mode:          | 802.11ax |
|---------------------------|----------|
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5500MHz  |
| Channel:                  | 100      |

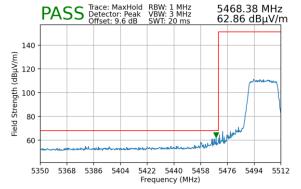


Plot 7-366. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

| Worst Case Mode:          | 802.11ax |
|---------------------------|----------|
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5825MHz  |
| Channel:                  | 165      |



Plot 7-368. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)



Plot 7-367. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

| FCC ID: A3LSMS916U  | MEASUREMENT REPORT<br>(CERTIFICATION) |                  | Approved by:<br>Technical Manager |
|---------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:                           | EUT Type:        | Dogo 220 of 254                   |
| 1M2209010097-13.A3L | 09/08 - 11/08/2022                    | Portable Handset | Page 230 of 254                   |
|                     |                                       |                  | \/0.0.02/01/2010                  |