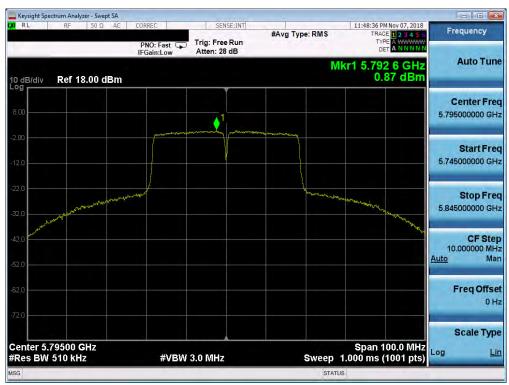


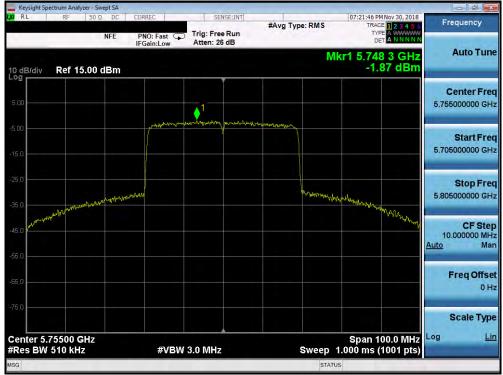
Plot 7-193. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



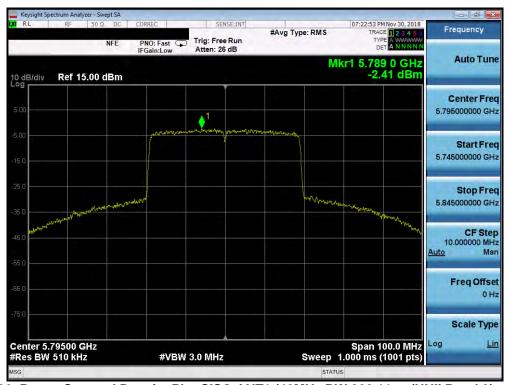
Plot 7-194. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | SUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 127 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | raye 121 01 249 |





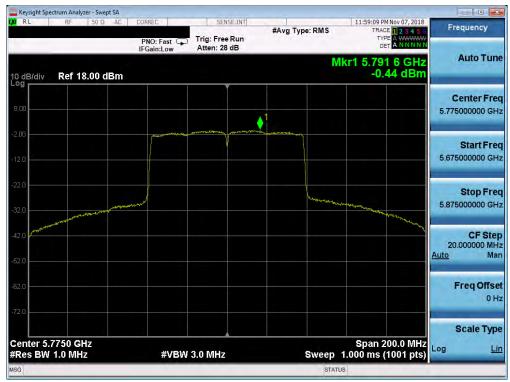
Plot 7-195. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



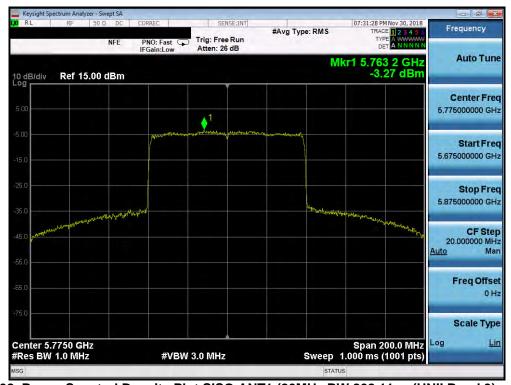
Plot 7-196. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | ISUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 100 of 040 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Page 128 of 249 |





Plot 7-197. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-198. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 120 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 129 of 249 |



SISO Antenna-2 Power Spectral Density Measurements

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|--------------------|----------------|---------------|------------------|------------------------------------|-----------------------------------|----------------|
| | 5180 | 36 | а | 6 | 6.86 | 11.0 | -4.14 |
| | 5200 | 40 | а | 6 | 6.90 | 11.0 | -4.10 |
| | 5240 | 48 | а | 6 | 7.02 | 11.0 | -3.99 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.60 | 11.0 | -4.40 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.97 | 11.0 | -4.03 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 7.01 | 11.0 | -3.99 |
| - | 5180 | 36 | ax (20MHz) | 8.6 (MCS0) | 5.84 | 11.0 | -5.16 |
| Band 1 | 5200 | 40 | ax (20MHz) | 8.6 (MCS0) | 6.49 | 11.0 | -4.51 |
| Ř | 5240 | 48 | ax (20MHz) | 8.6 (MCS0) | 6.60 | 11.0 | -4.40 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 3.09 | 11.0 | -7.91 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 3.19 | 11.0 | -7.81 |
| | 5190 | 38 | ax (40MHz) | 17.2 (MCS0) | 2.81 | 11.0 | -8.19 |
| | 5230 | 46 | ax (40MHz) | 17.2 (MCS0) | 3.13 | 11.0 | -7.87 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.13 | 11.0 | -12.13 |
| | 5210 | 42 | ax (80MHz) | 36 (MCS0) | -0.72 | 11.0 | -11.72 |
| | 5260 | 52 | a | 6 | 6.84 | 11.0 | -4.16 |
| | 5280 | 56 | а | 6 | 6.98 | 11.0 | -4.02 |
| | 5320 | 64 | а | 6 | 7.06 | 11.0 | -3.94 |
| | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS0) | 7.03 | 11.0 | -3.97 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS0) | 6.79 | 11.0 | -4.21 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 7.25 | 11.0 | -3.75 |
| ₹. | 5260 | 52 | ax (20MHz) | 8.6 (MCS0) | 6.61 | 11.0 | -4.39 |
| Band 2A | 5280 | 56 | ax (20MHz) | 8.6 (MCS0) | 6.68 | 11.0 | -4.32 |
| Bar | 5320 | 64 | ax (20MHz) | 8.6 (MCS0) | 6.94 | 11.0 | -4.06 |
| _ | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 2.60 | 11.0 | -8.40 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 3.00 | 11.0 | -8.00 |
| | 5270 | 54 | ax (40MHz) | 17.2 (MCS0) | 3.27 | 11.0 | -7.74 |
| | 5310 | 62 | ax (40MHz) | 17.2 (MCS0) | 3.07 | 11.0 | -7.93 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.71 | 11.0 | -11.71 |
| | 5210 | 58 | ax (80MHz) | 36 (MCS0) | -0.77 | 11.0 | -11.37 |
| | 5500 | 100 | a (OOIVII IZ) | 6 | 6.76 | 11.0 | -4.24 |
| | 5600 | 120 | а | 6 | 6.83 | 11.0 | -4.17 |
| | 5720 | 144 | a | 6 | 6.62 | 11.0 | -4.38 |
| | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 6.69 | 11.0 | -4.31 |
| | 5600 | 120 | n (20MHz) | 6.5/7.2 (MCS0) | 6.75 | 11.0 | -4.25 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS0) | 7.02 | 11.0 | -3.98 |
| | 5500 | 100 | ax (20MHz) | 8.6 (MCS0) | 6.35 | 11.0 | -4.65 |
| | 5600 | 120 | ax (20MHz) | 8.6 (MCS0) | 5.96 | 11.0 | -5.04 |
| | 5720 | 144 | ax (20MHz) | 8.6 (MCS0) | 6.12 | 11.0 | -4.89 |
| ပ | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | 2.34 | 11.0 | -8.66 |
| Band 2C | 5590 | 118 | n (40MHz) | 13.5/15 (MCS0) | 2.60 | 11.0 | -8.40 |
| 3an | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 2.69 | 11.0 | -8.31 |
| ш | 5510 | 102 | ax (40MHz) | 17.2 (MCS0) | 3.65 | 11.0 | -7.35 |
| | 5590 | 118 | ax (40MHz) | 17.2 (MCS0) | 2.37 | 11.0 | |
| | 5710 | 142 | ax (40MHz) | 17.2 (MCS0) | 2.89 | 11.0 | -8.63 -8.11 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.17 | 11.0 | -12.17 |
| | | 122 | ac (80MHz) | 29.3/32.5 (MCS0) | | | 1 |
| | 5610 5690 | | ` ′ | , , , | -1.01 -3.52 | 11.0 | -12.01 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | -3.52 | 11.0 | -14.52 |
| | 5530 | 106 | ax (80MHz) | 36 (MCS0) | -0.46 | 11.0 | -11.46 |
| | 5610 | 122 | ax (80MHz) | 36 (MCS0) | -1.06 | 11.0 | -12.06 |
| | 5690 | 138 | ax (80MHz) | 36 (MCS0) | -3.87 | 11.0 | -14.87 |

Table 7-24. Conducted Power Spectral Density Measurements SISO ANT2

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 120 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 130 of 249 |



| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|------|--------------------|----------------|-------------|------------------|------------------------------------|-----------------------|--|---|----------------|
| | 5180 | 36 | а | 6 | 6.86 | -7.70 | -0.84 | 10.0 | -10.84 |
| | 5200 | 40 | а | 6 | 6.90 | -7.57 | -0.67 | 10.0 | -10.67 |
| | 5240 | 48 | а | 6 | 7.02 | -8.01 | -1.00 | 10.0 | -11.00 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.60 | -7.70 | -1.10 | 10.0 | -11.10 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.97 | -7.57 | -0.60 | 10.0 | -10.60 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 7.01 | -8.01 | -1.00 | 10.0 | -11.00 |
| _ | 5180 | 36 | ax (20MHz) | 8.6 (MCS0) | 5.84 | -7.70 | -1.86 | 10.0 | -11.86 |
| Band | 5200 | 40 | ax (20MHz) | 8.6 (MCS0) | 6.49 | -7.57 | -1.08 | 10.0 | -11.08 |
| ä | 5240 | 48 | ax (20MHz) | 8.6 (MCS0) | 6.60 | -8.01 | -1.41 | 10.0 | -11.41 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 3.09 | -7.70 | -4.61 | 10.0 | -14.61 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 3.19 | -8.01 | -4.82 | 10.0 | -14.82 |
| | 5190 | 38 | ax (40MHz) | 17.2 (MCS0) | 2.81 | -7.70 | -4.89 | 10.0 | -14.89 |
| | 5230 | 46 | ax (40MHz) | 17.2 (MCS0) | 3.13 | -8.01 | -4.88 | 10.0 | -14.88 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.13 | -7.57 | -8.70 | 10.0 | -18.70 |
| | 5210 | 42 | ax (80MHz) | 36 (MCS0) | -0.72 | -7.57 | -8.29 | 10.0 | -18.29 |

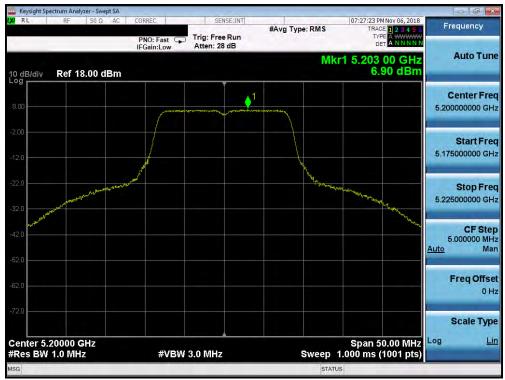
Table 7-25. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED) SISO ANT2



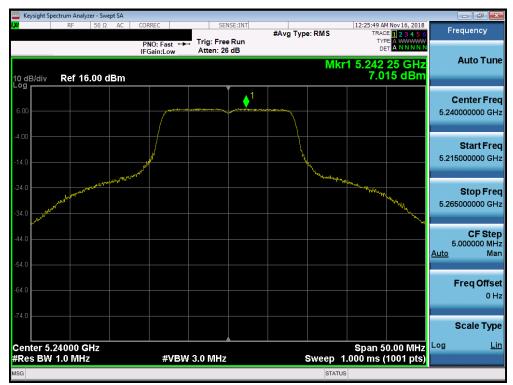
Plot 7-199. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) - Ch. 36)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 121 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 131 of 249 |





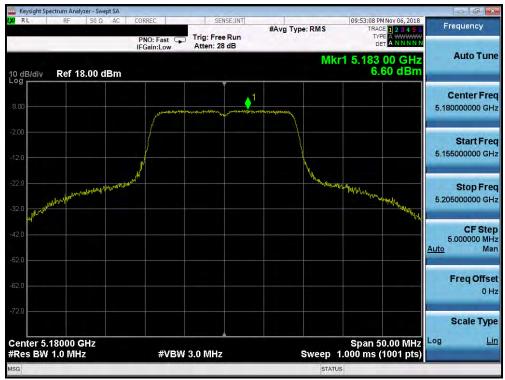
Plot 7-200. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) - Ch. 40)



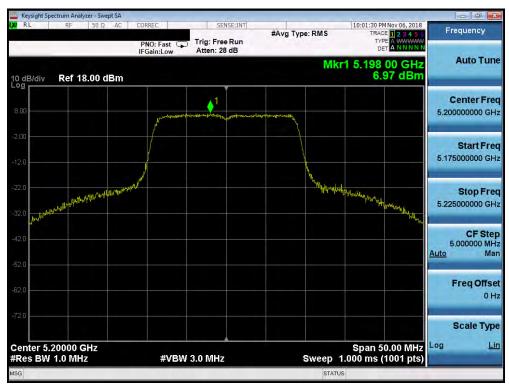
Plot 7-201. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) - Ch. 48)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 132 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 132 01 249 |





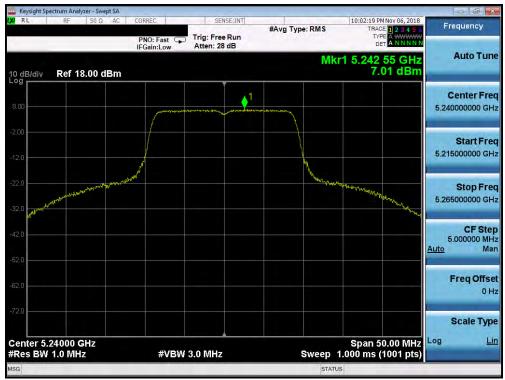
Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)



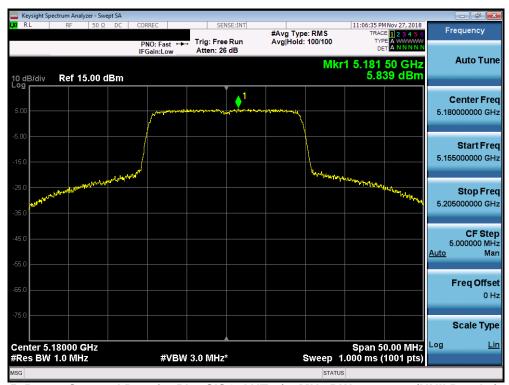
Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | ISUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 122 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Page 133 of 249 |





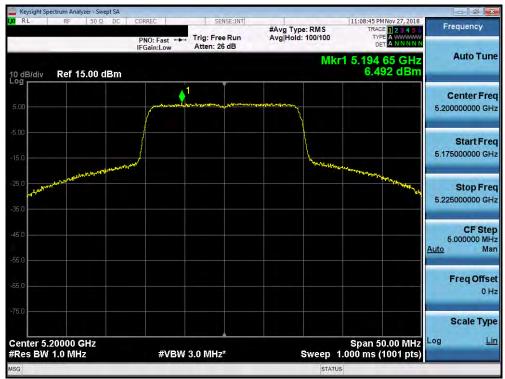
Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)



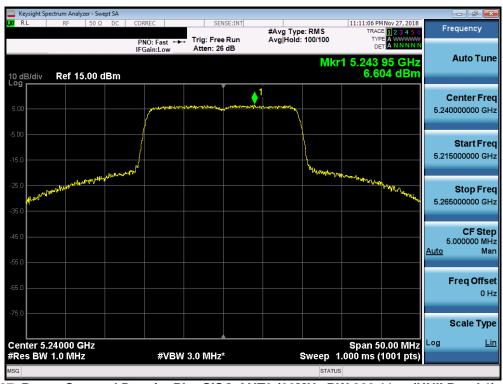
Plot 7-205. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 124 of 240 |
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Plot 7-206. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)



Plot 7-207. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 125 of 240 |
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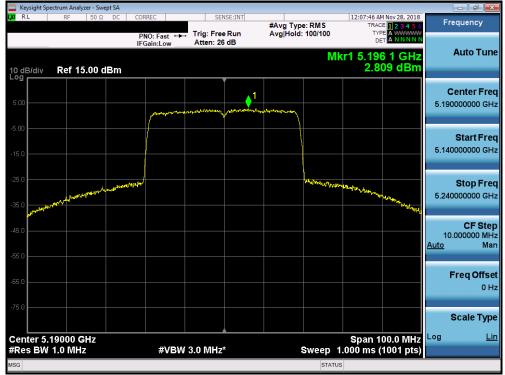
Plot 7-208. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)



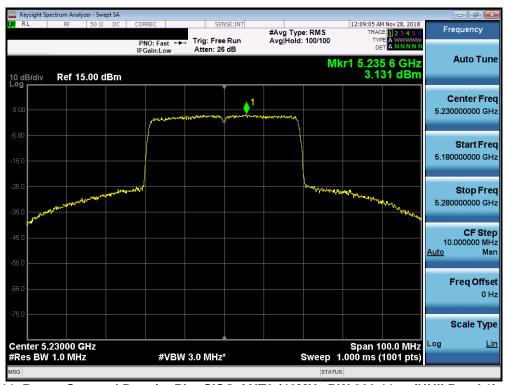
Plot 7-209. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 126 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 136 of 249 |





Plot 7-210. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)



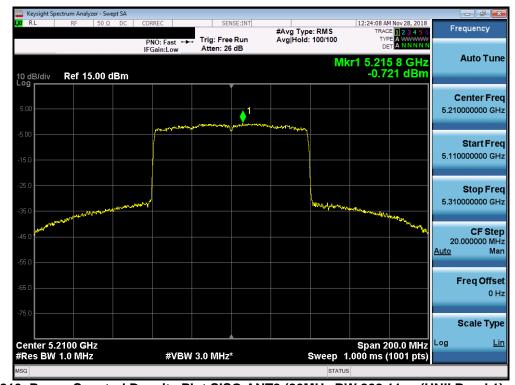
Plot 7-211. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | SUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 137 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | raye 137 01 249 |





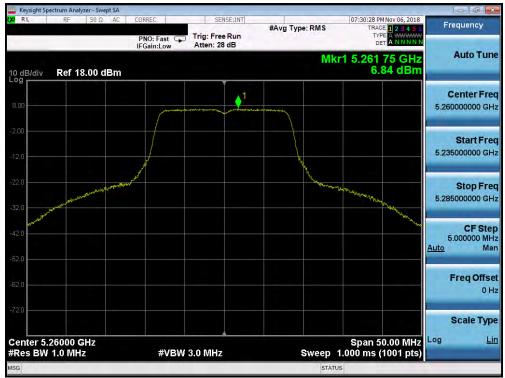
Plot 7-212. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)



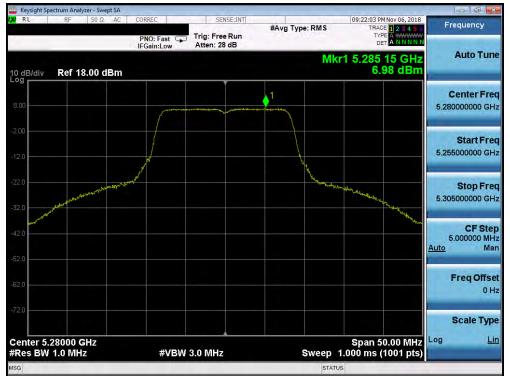
Plot 7-213. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | SUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 120 of 240 |
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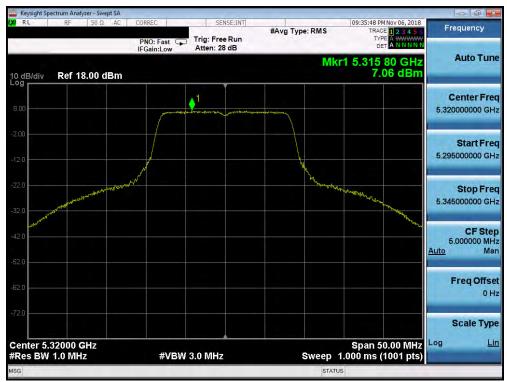
Plot 7-214. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 52)



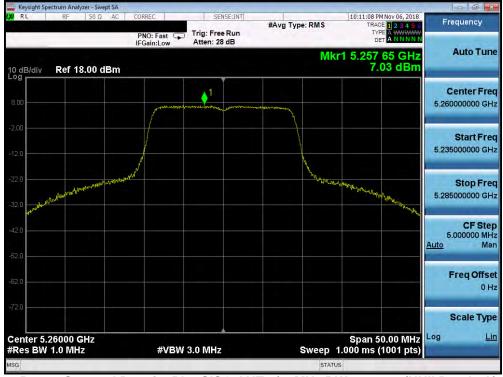
Plot 7-215. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 56)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 120 of 240 |
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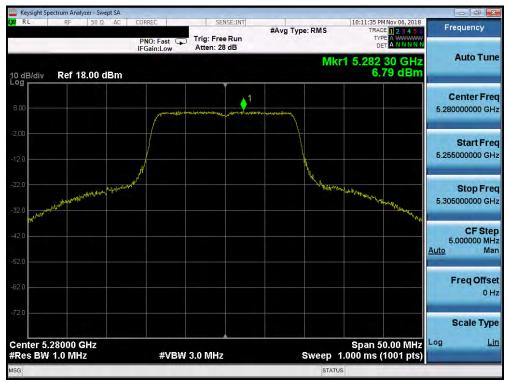
Plot 7-216. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 64)



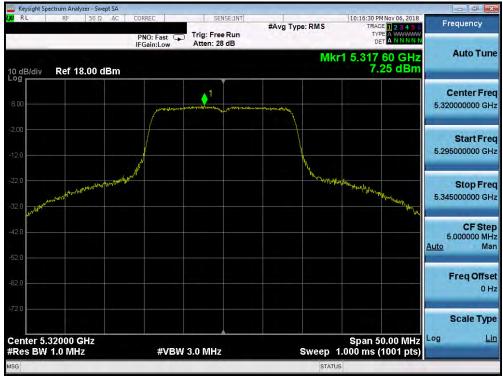
Plot 7-217. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 140 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 140 of 249 |





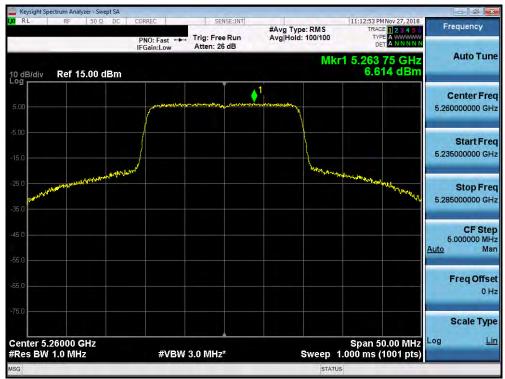
Plot 7-218. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)



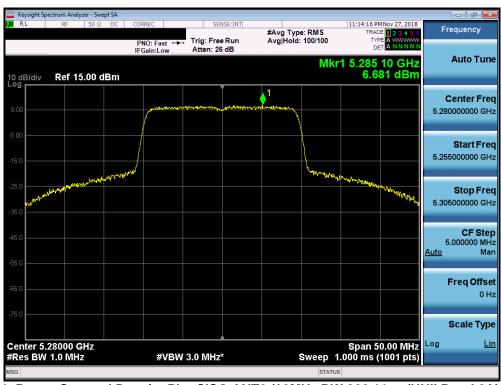
Plot 7-219. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 141 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 141 of 249 |





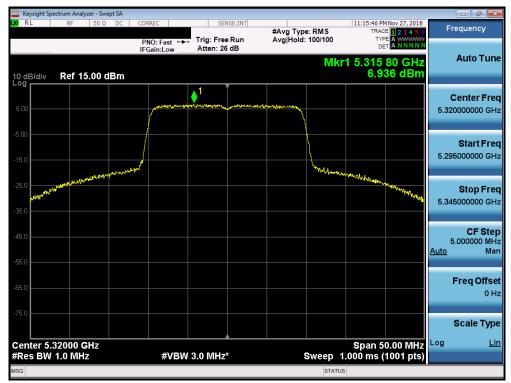
Plot 7-220. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)



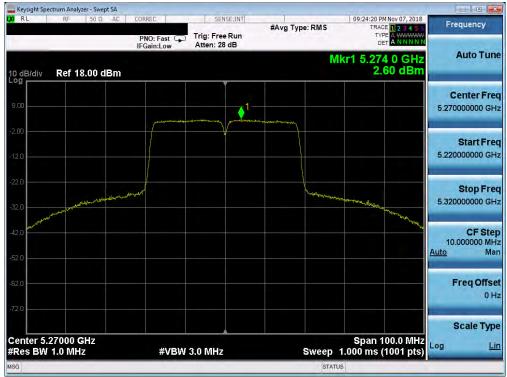
Plot 7-221. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | UNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-----|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 142 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | raye 142 01 249 |





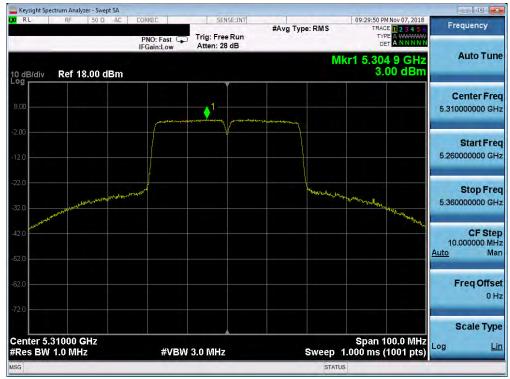
Plot 7-222. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)



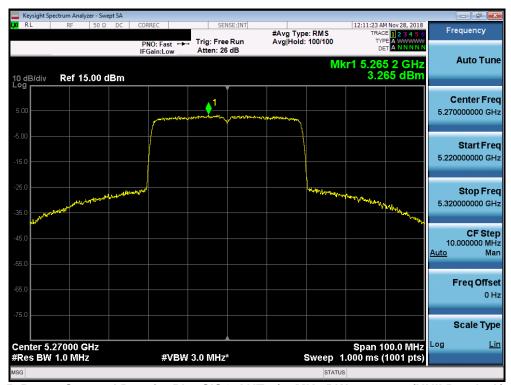
Plot 7-223. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 142 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 143 of 249 |





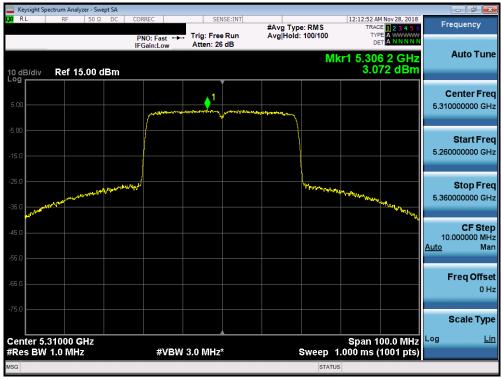
Plot 7-224. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)



Plot 7-225. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dags 144 of 240 |
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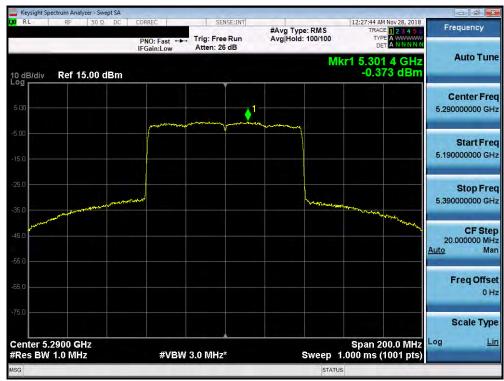
Plot 7-226. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)



Plot 7-227. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dags 145 of 240 |
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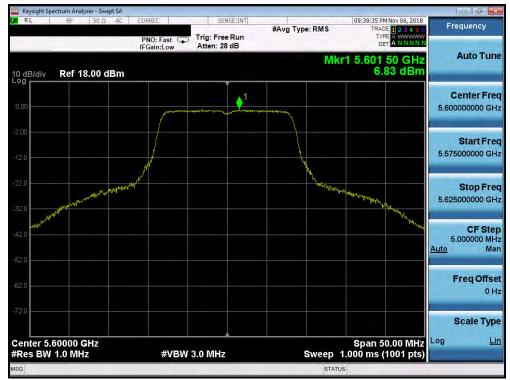
Plot 7-228. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)



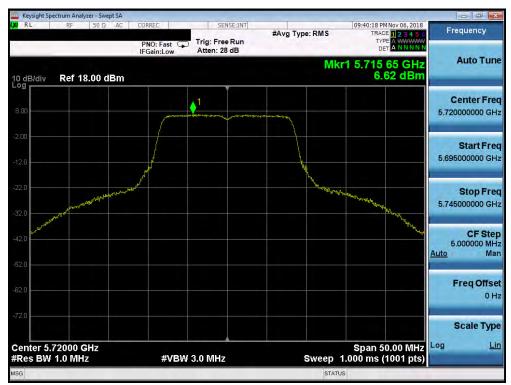
Plot 7-229. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 100)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 146 of 240 |
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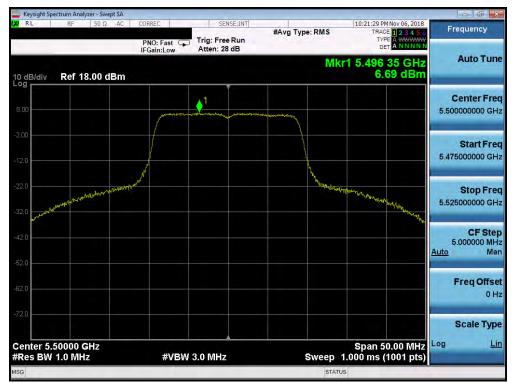
Plot 7-230. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 120)



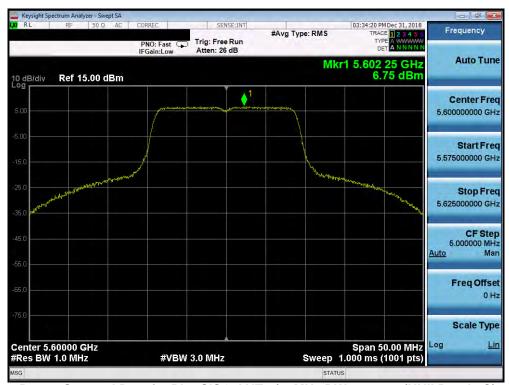
Plot 7-231. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 144)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 147 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 147 of 249 |





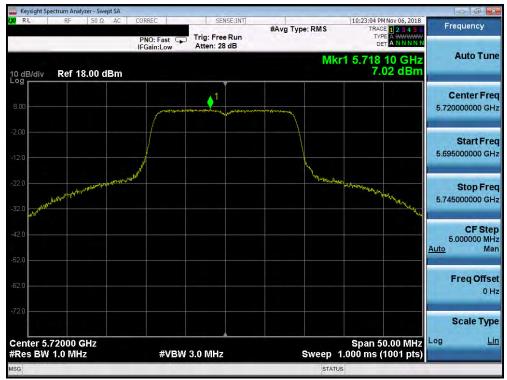
Plot 7-232. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)



Plot 7-233. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 149 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 148 of 249 |





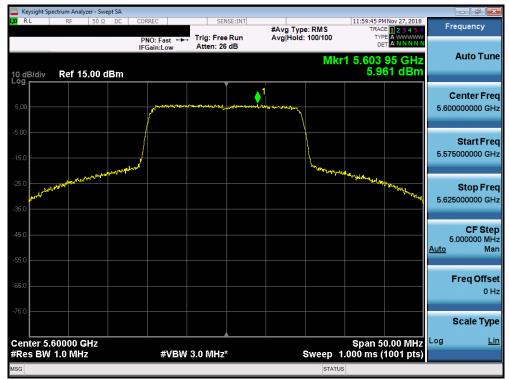
Plot 7-234. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)



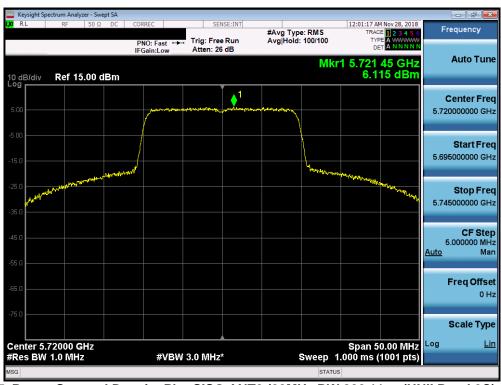
Plot 7-235. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | SUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dags 140 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Page 149 of 249 |





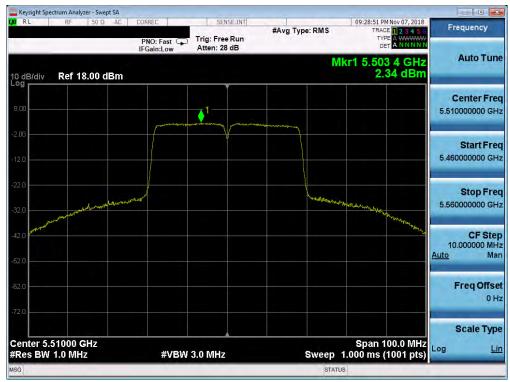
Plot 7-236. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)



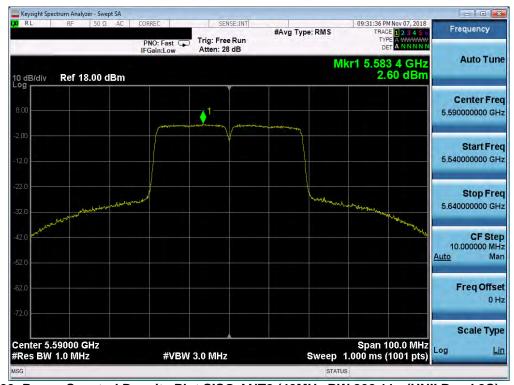
Plot 7-237. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 450 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 150 of 249 |





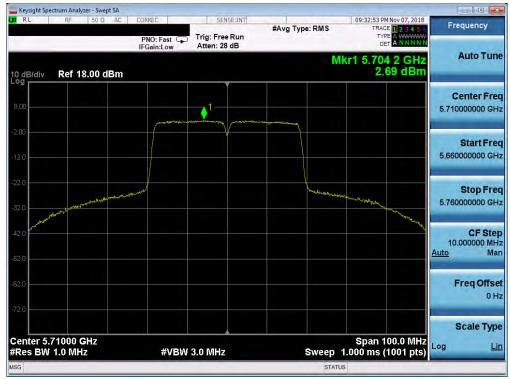
Plot 7-238. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)



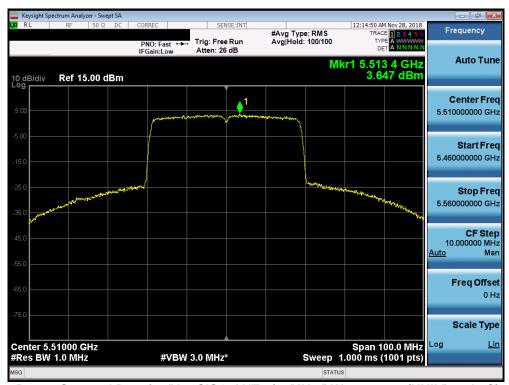
Plot 7-239. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 151 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 151 of 249 |





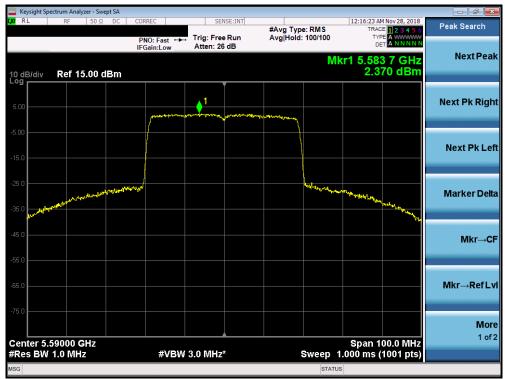
Plot 7-240. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)



Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 152 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Fage 152 01 249 |





Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



Plot 7-243. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | ISUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dags 452 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Page 153 of 249 |





Plot 7-244. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



Plot 7-245. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 154 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | rage 104 01 249 |





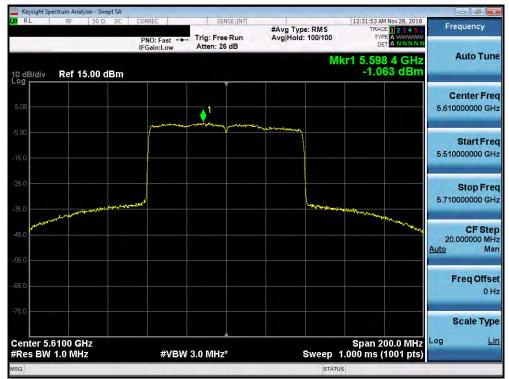
Plot 7-246. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)



Plot 7-247. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 155 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Fage 155 01 249 |





Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 156 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Fage 156 01 249 |



| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|------|-----------------|----------------|-------------|------------------|------------------------------------|--|----------------|
| | 5745 | 149 | а | 6 | 5.07 | 30.0 | -24.93 |
| | 5785 | 157 | а | 6 | 4.83 | 30.0 | -25.17 |
| | 5825 | 165 | а | 6 | 5.41 | 30.0 | -24.59 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 4.05 | 30.0 | -25.95 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 4.14 | 30.0 | -25.86 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 4.19 | 30.0 | -25.81 |
| က | 5745 | 149 | ax (20MHz) | 8.6 (MCS0) | 3.791 | 30.0 | -26.21 |
| Band | 5785 | 157 | ax (20MHz) | 8.6 (MCS0) | 3.998 | 30.0 | -26.00 |
| m | 5825 | 165 | ax (20MHz) | 8.6 (MCS0) | 3.372 | 30.0 | -26.63 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | 0.16 | 30.0 | -29.84 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | 0.38 | 30.0 | -29.62 |
| | 5755 | 151 | ax (40MHz) | 17.2 (MCS0) | -0.031 | 30.0 | -30.03 |
| | 5795 | 159 | ax (40MHz) | 17.2 (MCS0) | 0.290 | 30.0 | -29.71 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.53 | 30.0 | -30.53 |
| | 5775 | 155 | ax (80MHz) | 36 (MCS0) | -0.600 | 30.0 | -30.60 |

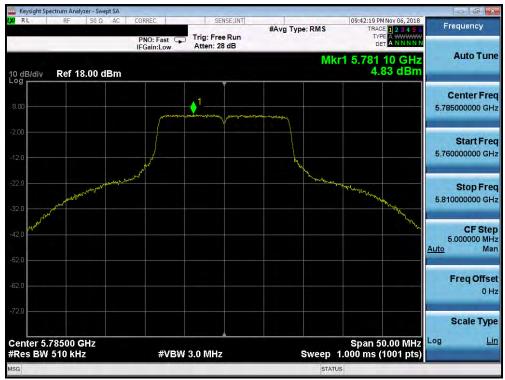
Table 7-26. Band 3 Conducted Power Spectral Density Measurements SISO ANT2



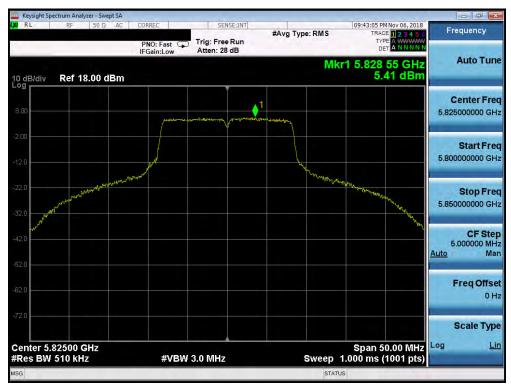
Plot 7-250. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 149)

| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 157 of 240 |
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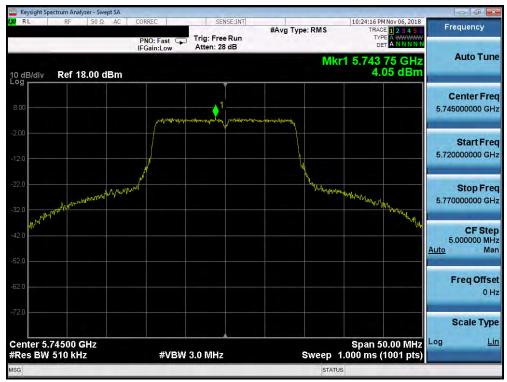
Plot 7-251. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 157)



Plot 7-252. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 165)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 159 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 158 of 249 |





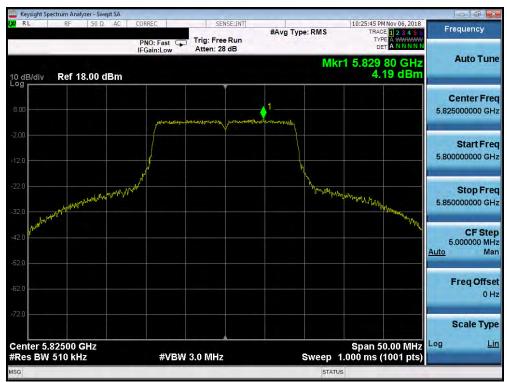
Plot 7-253. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



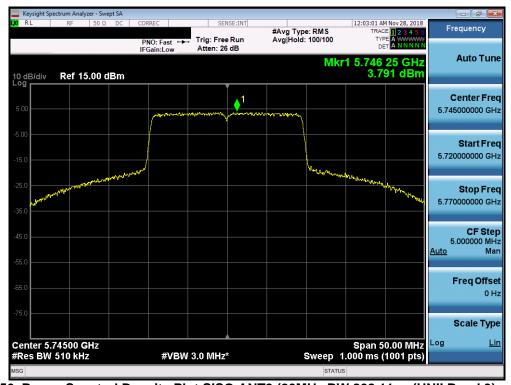
Plot 7-254. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 150 of 240 |
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Plot 7-255. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



Plot 7-256. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|---------------------|------------------------|------------------------------------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 460 of 240 | |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 160 of 249 | |





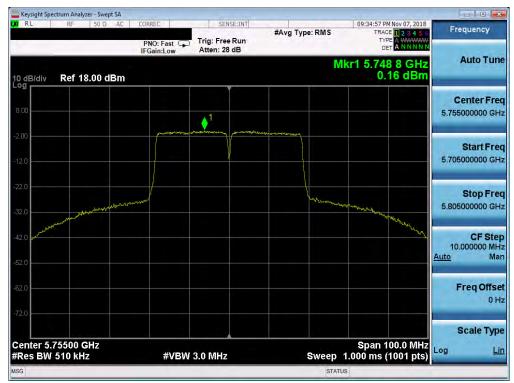
Plot 7-257. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



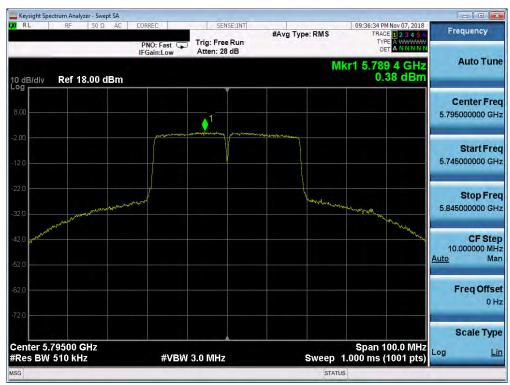
Plot 7-258. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | ISUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 161 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Page 161 01 249 |





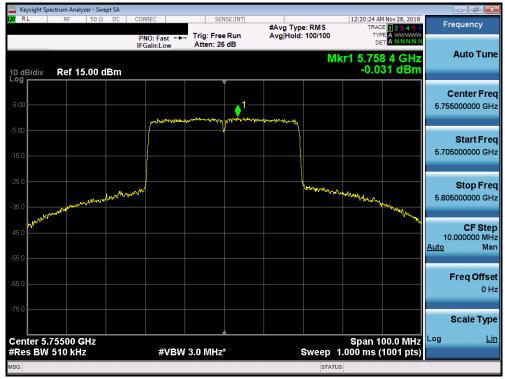
Plot 7-259. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



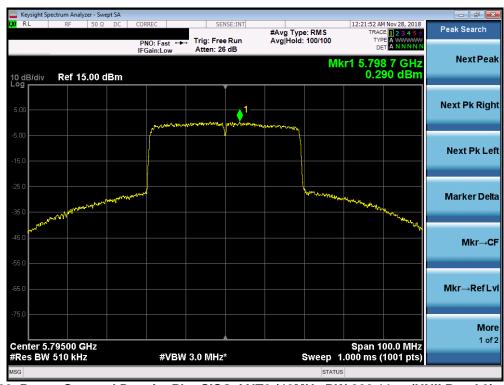
Plot 7-260. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | ASUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 162 of 249 |
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Plot 7-261. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | ISUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 163 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Fage 103 01 249 |





Plot 7-263. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 164 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | raye 104 01 249 |



Summed MIMO Power Spectral Density Measurements

| | Frequency | Channel | 902 11 Mada | Data Data [Mbns] | Antenna-1 | Antenna-2 | Summed MIMO | Max Power | Margin |
|---------|-----------|---------|-------------|------------------|------------|-------------|-------------|----------------------|--------|
| | [MHz] | No. | 802.11 Wode | Data Rate [Mbps] | [dBm] | [dBm] | [dBm] | Density [dBm/MHz] | [dB] |
| | 5180 | 36 | а | 6 | 6.68 | 6.86 | 9.78 | 11.0 | -1.22 |
| | 5200 | 40 | а | 6 | 6.68 | 6.90 | 9.80 | 11.0 | -1.20 |
| | 5240 | 48 | а | 6 | 6.66 | 7.02 | 9.85 | 11.0 | -1.15 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.60 | 6.60 | 9.61 | 11.0 | -1.39 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.49 | 6.97 | 9.75 | 11.0 | -1.25 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 6.67 | 7.01 | 9.86 | 11.0 | -1.14 |
| _ | 5180 | 36 | ax (20MHz) | 8.6 (MCS0) | 7.44 | 5.84 | 9.72 | 11.0 | -1.28 |
| Band | 5200 | 40 | ax (20MHz) | 8.6 (MCS0) | 6.17 | 6.49 | 9.34 | 11.0 | -1.66 |
| ä | 5240 | 48 | ax (20MHz) | 8.6 (MCS0) | 6.32 | 6.60 | 9.47 | 11.0 | -1.53 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 2.93 | 3.09 | 6.02 | 11.0 | -4.98 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 2.92 | 3.19 | 6.07 | 11.0 | -4.93 |
| | 5190 | 38 | ax (40MHz) | 17.2 (MCS0) | 3.79 | 2.81 | 6.34 | 11.0 | -4.66 |
| | 5230 | 46 | ax (40MHz) | 17.2 (MCS0) | 3.67 | 3.13 | 6.42 | 11.0 | -4.58 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.14 | -1.13 | 1.88 | 11.0 | -9.12 |
| | 5210 | 42 | ax (80MHz) | 36 (MCS0) | -0.26 | -0.72 | 2.53 | 11.0 | -8.47 |
| | 5260 | 52 | а | 6 | 6.58 | 6.84 | 9.73 | 11.0 | -1.27 |
| | 5280 | 56 | а | 6 | 6.37 | 6.98 | 9.69 | 11.0 | -1.31 |
| | 5320 | 64 | а | 6 | 6.77 | 7.06 | 9.93 | 11.0 | -1.07 |
| | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS0) | 6.60 | 7.03 | 9.83 | 11.0 | -1.17 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS0) | 6.21 | 6.79 | 9.52 | 11.0 | -1.48 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 6.41 | 7.25 | 9.86 | 11.0 | -1.14 |
| 2 A | 5260 | 52 | ax (20MHz) | 8.6 (MCS0) | 6.83 | 6.61 | 9.73 | 11.0 | -1.27 |
| Band 2A | 5280 | 56 | ax (20MHz) | 8.6 (MCS0) | 6.54 | 6.68 | 9.62 | 11.0 | -1.38 |
| Ba | 5320 | 64 | ax (20MHz) | 8.6 (MCS0) | 5.84 | 6.94 | 9.43 | 11.0 | -1.57 |
| | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 2.72 | 2.60 | 5.67 | 11.0 | -5.33 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 2.99 | 3.00 | 6.01 | 11.0 | -4.99 |
| | 5270 | 54 | ax (40MHz) | 17.2 (MCS0) | 2.57 | 3.27 | 5.94 | 11.0 | -5.06 |
| | 5310 | 62 | ax (40MHz) | 17.2 (MCS0) | 1.98 | 3.07 | 5.57 | 11.0 | -5.43 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.91 | -0.71 | 2.20 | 11.0 | -8.80 |
| | 5210 | 58 | ax (80MHz) | 36 (MCS0) | -1.71 | -0.37 | 2.02 | 11.0 | -8.98 |
| | 5500 | 100 | а | 6 | 6.79 | 6.76 | 9.79 | 11.0 | -1.21 |
| | 5600 | 120 | а | 6 | 6.95 | 6.83 | 9.90 | 11.0 | -1.10 |
| | 5720 | 144 | а | 6 | 7.10 | 6.62 | 9.88 | 11.0 | -1.12 |
| | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 6.48 | 6.69 | 9.60 | 11.0 | -1.40 |
| | 5600 | 120 | n (20MHz) | 6.5/7.2 (MCS0) | 6.33 | 6.75 | 9.56 | 11.0 | -1.44 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS0) | 6.79 | 7.02 | 9.91 | 11.0 | -1.09 |
| | 5500 | 100 | ax (20MHz) | 8.6 (MCS0) | 5.98 | 6.35 | 9.18 | 11.0 | -1.82 |
| | 5600 | 120 | ax (20MHz) | 8.6 (MCS0) | 4.90 | 5.96 | 8.47 | 11.0 | -2.53 |
| | 5720 | 144 | ax (20MHz) | 8.6 (MCS0) | 4.54 | 6.12 | 8.41 | 11.0 | -2.59 |
| 20 | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | 2.64 | 2.34 | 5.50 | 11.0 | -5.50 |
| Band 2C | 5590 | 118 | n (40MHz) | 13.5/15 (MCS0) | 2.97 | 2.60 | 5.80 | 11.0 | -5.20 |
| Ba | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 2.89 | 2.69 | 5.80 | 11.0 | -5.20 |
| | 5510 | 102 | ax (40MHz) | 17.2 (MCS0) | 1.79 | 3.65 | 5.83 | 11.0 | -5.17 |
| | 5590 | 118 | ax (40MHz) | 17.2 (MCS0) | 0.98 | 2.37 | 4.74 | 11.0 | -6.26 |
| | 5710 | 142 | ax (40MHz) | 17.2 (MCS0) | 0.41 | 2.89 | 4.83 | 11.0 | -6.17 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.44 | -1.17 | 1.71 | 11.0 | -9.29 |
| | 5610 | 122 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.56 | -1.01 | 1.73 | 11.0 | -9.27 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | -3.91 | -3.52 | -0.70 | 11.0 | -11.70 |
| | 5530 | 106 | ax (80MHz) | 36 (MCS0) | -2.48 | -0.46 | 1.66 | 11.0 | -9.34 |
| | 5610 | 122 | ax (80MHz) | 36 (MCS0) | -3.37 | -1.06 | 0.95 | 11.0 | -10.05 |
| | 5690 | 138 | ax (80MHz) | 36 (MCS0) | -5.79 | -3.87 | -1.71 | 11.0 | -12.71 |
| | Toble 7 | 7 27 Pa | ndo 1 2 A | 2C MIMO Con | ducted Day | or Speetral | Donoity Ma | | |

Table 7-27. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
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| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenna-1 Power Density [dBm] | | Summed MIMO Power Density [dBm] | Directional Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|------|--------------------|----------------|----------------|------------------|-------------------------------------|-------|---------------------------------------|--------------------------------------|--|---|----------------|
| | 5180 | 36 | а | 6.5/7.2 (MCS0) | 6.68 | 6.86 | 9.78 | -4.81 | 4.97 | 10.0 | -5.03 |
| | 5200 | 40 | а | 6.5/7.2 (MCS0) | 6.68 | 6.90 | 9.80 | -4.53 | 5.27 | 10.0 | -4.73 |
| | 5240 | 48 | а | 6.5/7.2 (MCS0) | 6.66 | 7.02 | 9.85 | -4.71 | 5.15 | 10.0 | -4.85 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.60 | 6.60 | 9.61 | -4.81 | 4.80 | 10.0 | -5.20 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.49 | 6.97 | 9.75 | -4.53 | 5.22 | 10.0 | -4.78 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 6.67 | 7.01 | 9.86 | -4.71 | 5.15 | 10.0 | -4.85 |
| - | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 7.44 | 5.84 | 9.72 | -4.81 | 4.92 | 10.0 | -5.08 |
| Band | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 7.89 | 6.49 | 10.26 | -4.53 | 5.73 | 10.0 | -4.27 |
| Ä | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 7.47 | 6.60 | 10.07 | -4.71 | 5.36 | 10.0 | -4.64 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 2.93 | 3.09 | 6.02 | -4.81 | 1.21 | 10.0 | -8.79 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 2.92 | 3.19 | 6.07 | -4.71 | 1.36 | 10.0 | -8.64 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 3.79 | 2.81 | 6.34 | -4.81 | 1.53 | 10.0 | -8.47 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 3.67 | 3.13 | 6.42 | -4.71 | 1.71 | 10.0 | -8.29 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.14 | -1.13 | 1.88 | -4.53 | -2.65 | 10.0 | -12.65 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.26 | -0.72 | 2.53 | -4.53 | -2.00 | 10.0 | -12.00 |

Table 7-28. Band 1 MIMO e.i.r.p. Conducted Power Spectral Density Measurements (ISED)

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenn-1 Power Density [dBm] | Antenn-2 Power Density [dBm] | Summed MIMO Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|------|-----------------|----------------|-------------|------------------|------------------------------------|------------------------------------|---------------------------------------|--|----------------|
| | 5745 | 149 | а | 6 | 4.32 | 5.07 | 7.72 | 30.0 | -22.28 |
| | 5785 | 157 | а | 6 | 4.53 | 4.83 | 7.69 | 30.0 | -22.31 |
| | 5825 | 165 | а | 6 | 4.48 | 5.41 | 7.98 | 30.0 | -22.02 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 4.23 | 4.05 | 7.15 | 30.0 | -22.85 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 4.25 | 4.14 | 7.21 | 30.0 | -22.79 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 4.51 | 4.19 | 7.37 | 30.0 | -22.63 |
| က | 5745 | 149 | ax (20MHz) | 8.6 (MCS0) | 2.41 | 3.79 | 6.17 | 30.0 | -23.83 |
| Band | 5785 | 157 | ax (20MHz) | 8.6 (MCS0) | 2.02 | 4.00 | 6.13 | 30.0 | -23.87 |
| ä | 5825 | 165 | ax (20MHz) | 8.6 (MCS0) | 1.25 | 3.37 | 5.45 | 30.0 | -24.55 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | 0.28 | 0.16 | 3.23 | 30.0 | -26.77 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | 0.87 | 0.38 | 3.64 | 30.0 | -26.36 |
| | 5755 | 151 | ax (40MHz) | 17.2 (MCS0) | -1.87 | -0.03 | 2.16 | 30.0 | -27.84 |
| | 5795 | 159 | ax (40MHz) | 17.2 (MCS0) | -2.41 | 0.29 | 2.16 | 30.0 | -27.84 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.44 | -0.53 | 2.52 | 30.0 | -27.48 |
| | 5775 | 155 | ax (80MHz) | 36 (MCS0) | -3.27 | -0.60 | 1.28 | 30.0 | -28.72 |

Table 7-29. Band 3 MIMO Conducted Power Spectral Density Measurements

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
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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 N/A dBm for Antenna-1 and N/A dBm for Antenna-2.

$$(N/A dBm + N/A dBm) = (N/A mW + N/A mW) = N/A mW = N/A dBm$$

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 N/A dBm with directional gain of N/A dBi.

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

N/A dBm + -4.81 dBi = 4.80 dBm

| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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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), and 802.11ac (80MHz)), 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 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.

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 7-30 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-30. 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

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)
- Number of measurement points = 1001 (Number of points must be ≥ 2 x span/RBW)
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

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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.

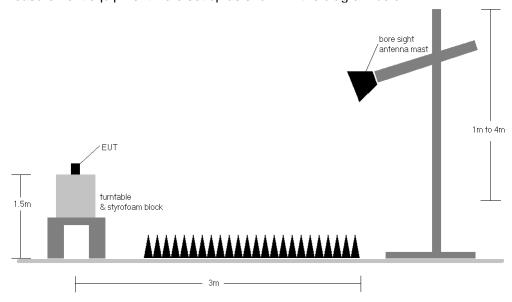


Figure 7-5. Test Instrument & Measurement Setup

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | SUNG | Approved by: Quality 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 7-30.
- 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 7-30. 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 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. 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 [dBuV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- o Margin [dB] = Field Strength Level $[dB\mu V/m]$ Limit $[dB\mu V/m]$

Radiated Band Edge Measurement Offset

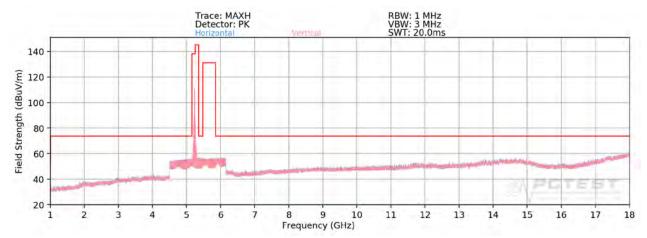
The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious
 Emission Measurements – Above 1GHz was calculated using the formula:

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

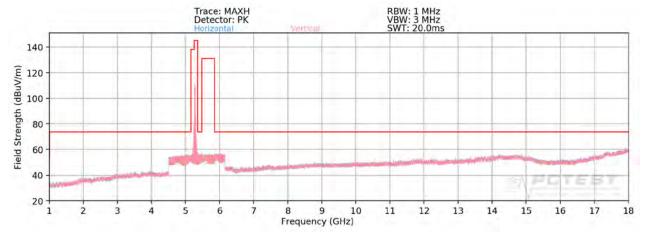
| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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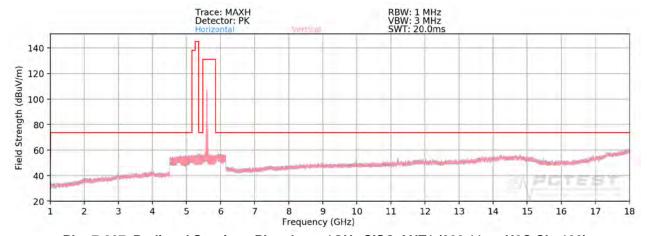
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-265. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U1 Ch. 40)



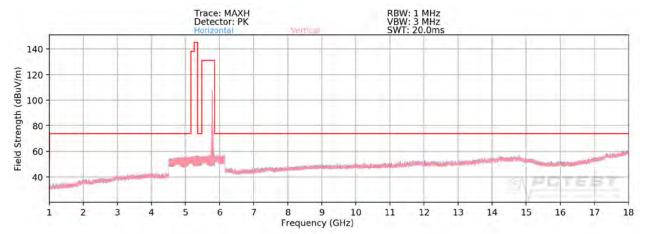
Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
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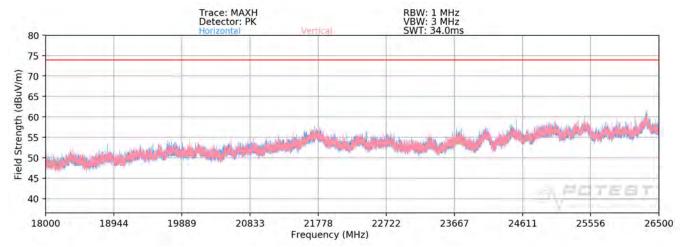


Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

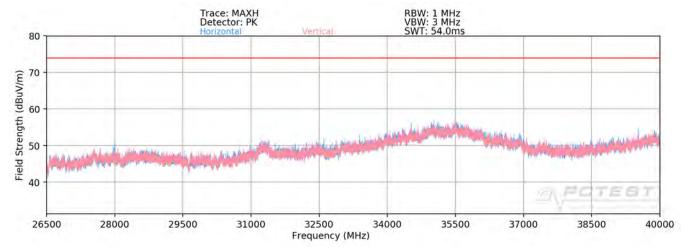
| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-269. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

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SISO Antenna-1 Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10360.00 | Peak | V | - | - | -69.47 | 12.74 | 0.00 | 50.27 | 68.20 | -17.93 |
| * | 15540.00 | Average | ٧ | 112 | 18 | -82.74 | 15.28 | 0.00 | 46.14 | 53.98 | -7.84 |
| * | 15540.00 | Peak | V | 112 | 18 | -71.96 | 15.28 | 0.00 | 60.82 | 73.98 | -13.16 |
| * | 20720.00 | Average | Н | - | - | -77.56 | 7.38 | -9.54 | 27.28 | 53.98 | -26.70 |
| * | 20720.00 | Peak | Н | - | - | -67.61 | 7.38 | -9.54 | 37.23 | 73.98 | -36.75 |
| | 25900.00 | Peak | Н | - | - | -66.44 | 9.85 | -9.54 | 40.87 | 68.20 | -27.33 |

Table 7-31, Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5200MHz Channel: 40

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10400.00 | Peak | > | - | - | -69.46 | 12.24 | 0.00 | 49.78 | 68.20 | -18.42 |
| * | 15600.00 | Average | ٧ | 116 | 18 | -75.01 | 15.40 | 0.00 | 47.39 | 53.98 | -6.58 |
| * | 15600.00 | Peak | V | 116 | 18 | -61.84 | 15.40 | 0.00 | 60.56 | 73.98 | -13.41 |
| * | 20800.00 | Average | Н | - | - | -78.35 | 7.85 | -9.54 | 26.95 | 53.98 | -27.02 |
| * | 20800.00 | Peak | Н | - | - | -67.65 | 7.85 | -9.54 | 37.65 | 73.98 | -36.32 |
| | 26000.00 | Peak | Н | - | - | -66.48 | 10.44 | -9.54 | 41.41 | 68.20 | -26.79 |

Table 7-32. Radiated Measurements SISO ANT1

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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20960.00

20960.00

26200.00

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

Distance Ant. **Antenna** Turntable **Analyzer Field** Frequency **AFCL** Limit Margin Correction Detector Pol. Azimuth Height Level Strength [MHz] [dB/m] **Factor** [dBµV/m] [dB] [H/V] [dBm] [dBµV/m] [cm] [degree] [dB] 10480.00 Peak V -69.46 12.41 0.00 49.95 68.20 -18.25 15720.00 Average ٧ 116 18 -75.01 16.70 0.00 48.69 53.98 -5.29 ٧ 15720.00 116 18 -61.84 16.70 0.00 61.86 73.98 -12.12 Peak

-65.89 Table 7-33. Radiated Measurements SISO ANT1

-78.11

-67.78

7.75

7.75

10.26

-9.54

-9.54

-9.54

27.10

37.43

41.83

53.98

73.98

68.20

-26.88

-36.55

-26.37

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

Channel: 48

Н

Н

Н

Average

Peak

Peak

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10480.00 | Peak | V | - | - | -70.11 | 12.41 | 0.00 | 49.30 | 68.20 | -18.90 |
| * | 15720.00 | Average | ٧ | 134 | 52 | -75.15 | 16.70 | 0.00 | 48.55 | 53.98 | -5.43 |
| * | 15720.00 | Peak | V | 134 | 52 | -61.93 | 16.70 | 0.00 | 61.77 | 73.98 | -12.21 |
| * | 20960.00 | Average | V | 100 | 167 | -77.27 | 7.75 | -9.54 | 27.94 | 53.98 | -26.04 |
| * | 20960.00 | Peak | V | 100 | 167 | -66.95 | 7.75 | -9.54 | 38.26 | 73.98 | -35.72 |
| | 26200.00 | Peak | V | 100 | 174 | -63.97 | 10.26 | -9.54 | 43.75 | 68.20 | -24.45 |

Table 7-34. Radiated Measurements SISO ANT1 with WCP

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5260MHz

Channel: 52

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10520.00 | Peak | > | | | -70.02 | 13.16 | 0.00 | 50.14 | 68.20 | -18.06 |
| * | 15780.00 | Average | ٧ | 113 | 20 | -78.72 | 16.21 | 0.00 | 44.49 | 53.98 | -9.49 |
| * | 15780.00 | Peak | ٧ | 113 | 20 | -62.45 | 16.21 | 0.00 | 60.76 | 73.98 | -13.22 |
| * | 21040.00 | Average | Н | - | - | -78.00 | 7.78 | -9.54 | 27.24 | 53.98 | -26.74 |
| * | 21040.00 | Peak | Н | - | - | -67.75 | 7.78 | -9.54 | 37.49 | 73.98 | -36.49 |
| | 26300.00 | Peak | Н | - | - | -67.13 | 10.58 | -9.54 | 40.91 | 68.20 | -27.29 |

Table 7-35. Radiated Measurements SISO ANT1

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5280MHz

56

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10560.00 | Peak | V | - | - | -70.11 | 13.66 | 0.00 | 50.55 | 68.20 | -17.65 |
| * | 15840.00 | Average | ٧ | 118 | 24 | -77.75 | 15.64 | 0.00 | 44.89 | 53.98 | -9.09 |
| * | 15840.00 | Peak | ٧ | 118 | 24 | -62.44 | 15.64 | 0.00 | 60.20 | 73.98 | -13.78 |
| * | 21120.00 | Average | Н | - | - | -77.46 | 17.26 | -9.54 | 37.26 | 53.98 | -16.72 |
| * | 21120.00 | Peak | Н | - | - | -67.13 | 17.26 | -9.54 | 47.59 | 73.98 | -26.39 |
| | 26400.00 | Peak | Н | - | - | -65.41 | 19.67 | -9.54 | 51.72 | 68.20 | -16.48 |

Table 7-36. Radiated Measurements SISO ANT1

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: Test Dates: | | EUT Type: | Dogo 176 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 176 of 249 |



Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 10640.00 | Average | ٧ | • | - | -82.45 | 14.15 | 0.00 | 38.70 | 53.98 | -15.28 |
| * | 10640.00 | Peak | ٧ | | - | -71.01 | 14.15 | 0.00 | 50.14 | 73.98 | -23.84 |
| * | 15960.00 | Average | ٧ | 113 | 20 | -77.01 | 15.01 | 0.00 | 45.00 | 53.98 | -8.98 |
| * | 15960.00 | Peak | ٧ | 113 | 20 | -63.25 | 15.01 | 0.00 | 58.76 | 73.98 | -15.22 |
| * | 21280.00 | Average | Н | - | - | -77.43 | 17.51 | -9.54 | 37.54 | 53.98 | -16.44 |
| * | 21280.00 | Peak | Н | - | - | -67.47 | 17.51 | -9.54 | 47.50 | 73.98 | -26.48 |
| | 26600.00 | Peak | Н | - | - | -51.28 | 1.44 | -9.54 | 47.62 | 68.20 | -20.58 |

Table 7-37. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 10640.00 | Average | V | - | - | -82.45 | 14.15 | 0.00 | 38.70 | 53.98 | -15.28 |
| * | 10640.00 | Peak | V | ı | | -71.01 | 14.15 | 0.00 | 50.14 | 73.98 | -23.84 |
| * | 15960.00 | Average | ٧ | 125 | 98 | -77.01 | 15.01 | 0.00 | 45.00 | 53.98 | -8.98 |
| * | 15960.00 | Peak | ٧ | 125 | 98 | -63.25 | 15.01 | 0.00 | 58.76 | 73.98 | -15.22 |
| * | 21280.00 | Average | ٧ | - | - | -77.32 | 17.51 | -9.54 | 37.65 | 53.98 | -16.33 |
| * | 21280.00 | Peak | ٧ | - | - | -66.44 | 17.51 | -9.54 | 48.53 | 73.98 | -25.45 |
| | 26600.00 | Peak | V | - | - | -50.12 | 1.44 | -9.54 | 48.78 | 68.20 | -19.42 |

Table 7-38. Radiated Measurements SISO ANT1 with WCP

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 177 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 177 of 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11000.00 | Average | ٧ | 263 | 352 | -79.94 | 13.55 | 0.00 | 40.61 | 53.98 | -13.37 |
| * | 11000.00 | Peak | ٧ | 263 | 352 | -67.91 | 13.55 | 0.00 | 52.64 | 73.98 | -21.34 |
| | 16500.00 | Peak | ٧ | 113 | 1 | -65.95 | 16.10 | 0.00 | 57.15 | 68.20 | -11.05 |
| | 22000.00 | Peak | Н | - | - | -67.26 | 8.71 | -9.54 | 38.91 | 68.20 | -29.29 |
| | 27500.00 | Peak | Н | - | - | -51.60 | -9.42 | -9.54 | 36.44 | 68.20 | -31.76 |

Table 7-39. Radiated Measurements SISO ANT1

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11200.00 | Average | V | - | - | -81.11 | 14.57 | 0.00 | 40.46 | 53.98 | -13.52 |
| * | 11200.00 | Peak | ٧ | - | - | -71.36 | 14.57 | 0.00 | 50.21 | 73.98 | -23.77 |
| | 16800.00 | Peak | V | 111 | 24 | -65.00 | 17.52 | 0.00 | 59.52 | 68.20 | -8.68 |
| * | 22400.00 | Average | Н | - | - | -77.88 | 9.30 | -9.54 | 28.88 | 53.98 | -25.10 |
| * | 22400.00 | Peak | Н | | - | -67.29 | 9.30 | -9.54 | 39.47 | 73.98 | -34.51 |
| | 28000.00 | Peak | Н | - | - | -49.43 | -9.24 | -9.54 | 38.79 | 68.20 | -29.41 |

Table 7-40. Radiated Measurements SISO ANT1

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 178 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 178 01 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11440.00 | Average | V | - | - | -83.11 | 15.10 | 0.00 | 38.99 | 53.98 | -14.99 |
| * | 11440.00 | Peak | ٧ | - | - | -71.87 | 15.10 | 0.00 | 50.23 | 73.98 | -23.75 |
| | 17160.00 | Peak | ٧ | 112 | 20 | -64.67 | 18.83 | 0.00 | 61.16 | 68.20 | -7.04 |
| * | 22880.00 | Average | Н | - | - | -78.80 | 8.86 | -9.54 | 27.52 | 53.98 | -26.46 |
| * | 22880.00 | Peak | Н | - | - | -68.07 | 8.86 | -9.54 | 38.25 | 73.98 | -35.73 |
| | 28600.00 | Peak | Н | - | - | -52.80 | -9.13 | -9.54 | 35.53 | 68.20 | -32.67 |

Table 7-41. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5720MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11440.00 | Average | \ | - | - | -82.79 | 15.10 | 0.00 | 39.31 | 53.98 | -14.67 |
| * | 11440.00 | Peak | ٧ | - | - | -71.99 | 15.10 | 0.00 | 50.11 | 73.98 | -23.87 |
| | 17160.00 | Peak | ٧ | 123 | 25 | -66.77 | 18.83 | 0.00 | 60.06 | 68.20 | -8.14 |
| * | 22880.00 | Average | ٧ | - | - | -77.91 | 8.86 | -9.54 | 28.41 | 53.98 | -25.57 |
| * | 22880.00 | Peak | ٧ | - | - | -67.50 | 8.86 | -9.54 | 38.82 | 73.98 | -35.16 |
| | 28600.00 | Peak | ٧ | - | - | -47.98 | -9.13 | -9.54 | 40.35 | 68.20 | -27.85 |

Table 7-42. Radiated Measurements SISO ANT1 with WCP

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | UNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-----|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 179 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Fage 179 01 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11490.00 | Average | ٧ | • | - | -82.00 | 15.22 | 0.00 | 40.22 | 53.98 | -13.76 |
| * | 11490.00 | Peak | ٧ | - | - | -70.91 | 15.22 | 0.00 | 51.31 | 73.98 | -22.67 |
| | 17235.00 | Peak | V | 112 | 32 | -64.92 | 19.54 | 0.00 | 61.62 | 68.20 | -6.58 |
| * | 22980.00 | Average | Н | - | - | -77.93 | 8.38 | -9.54 | 27.91 | 53.98 | -26.07 |
| * | 22980.00 | Peak | Н | - | - | -67.98 | 8.38 | -9.54 | 37.86 | 73.98 | -36.12 |
| | 28725.00 | Peak | Н | - | - | -52.18 | -8.87 | -9.54 | 36.41 | 68.20 | -31.79 |

Table 7-43. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5785MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11570.00 | Average | V | - | - | -83.10 | 15.02 | 0.00 | 38.92 | 53.98 | -15.06 |
| * | 11570.00 | Peak | ٧ | - | - | -71.70 | 15.02 | 0.00 | 50.32 | 73.98 | -23.66 |
| | 17355.00 | Peak | V | 111 | 40 | -67.36 | 23.41 | 0.00 | 63.05 | 68.20 | -5.15 |
| | 23140.00 | Peak | V | - | - | -67.25 | 8.78 | -9.54 | 38.99 | 68.20 | -29.21 |
| | 28925.00 | Peak | ٧ | - | - | -52.33 | -8.79 | -9.54 | 36.34 | 68.20 | -31.86 |

Table 7-44. Radiated Measurements SISO ANT1

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
|---------------------|------------------------|---------------------------------------|---------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 180 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Fage 180 01 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11650.00 | Average | V | - | - | -82.60 | 14.92 | 0.00 | 39.32 | 53.98 | -14.66 |
| * | 11650.00 | Peak | ٧ | - | - | -71.87 | 14.92 | 0.00 | 50.05 | 73.98 | -23.93 |
| | 17475.00 | Peak | V | 119 | 41 | -67.74 | 21.86 | 0.00 | 61.12 | 68.20 | -7.08 |
| | 23300.00 | Peak | V | - | - | -66.11 | 9.23 | -9.54 | 40.58 | 68.20 | -27.62 |
| | 29125.00 | Peak | V | - | - | -48.60 | -9.66 | -9.54 | 39.20 | 68.20 | -29.00 |

Table 7-45. Radiated Measurements SISO ANT1

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

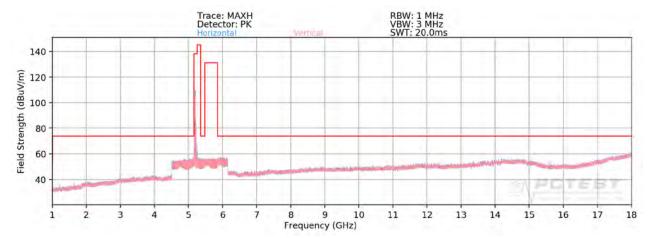
| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11570.00 | Average | V | - | - | -82.99 | 15.02 | 0.00 | 39.03 | 53.98 | -14.95 |
| * | 11570.00 | Peak | ٧ | - | - | -72.01 | 15.02 | 0.00 | 50.01 | 73.98 | -23.97 |
| | 17355.00 | Peak | ٧ | 121 | 56 | -69.94 | 23.41 | 0.00 | 60.47 | 68.20 | -7.73 |
| | 23140.00 | Peak | ٧ | - | - | -67.31 | 8.78 | -9.54 | 38.93 | 68.20 | -29.27 |
| | 28925.00 | Peak | ٧ | - | - | -48.47 | -8.79 | -9.54 | 40.20 | 68.20 | -28.00 |

Table 7-46. Radiated Measurements SISO ANT1 with WCP

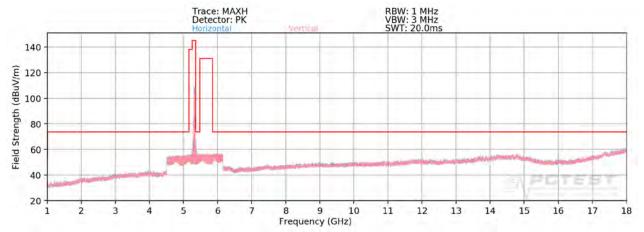
| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 191 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 181 of 249 |



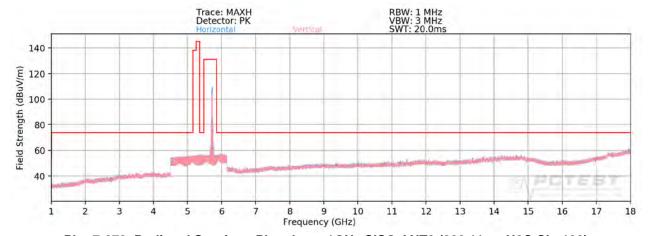
7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U1 Ch. 40)



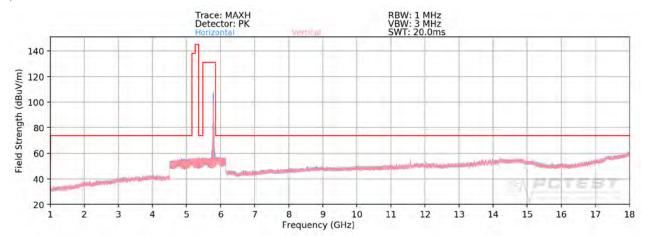
Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2A Ch. 56)



Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2C Ch. 120)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 192 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 182 of 249 |



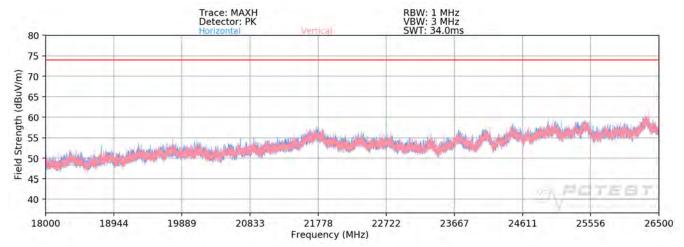


Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

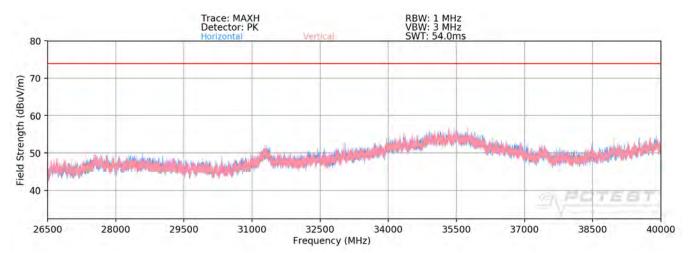
| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--------------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 192 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 183 of 249 |



SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-275. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--------------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 184 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 164 01 249 |



SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5180MHz

36

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10360.00 | Peak | V | 400 | 0 | -68.72 | 12.74 | 0.00 | 51.02 | 68.20 | -17.18 |
| * | 15540.00 | Average | ٧ | 116 | 350 | -81.53 | 15.28 | 0.00 | 40.75 | 53.98 | -13.23 |
| * | 15540.00 | Peak | V | 116 | 350 | -68.78 | 15.28 | 0.00 | 53.50 | 73.98 | -20.48 |
| * | 20720.00 | Average | Н | - | - | -77.90 | 7.38 | -9.54 | 26.94 | 53.98 | -27.04 |
| * | 20720.00 | Peak | Н | - | - | -66.40 | 7.38 | -9.54 | 38.44 | 73.98 | -35.54 |
| | 25900.00 | Peak | Н | - | - | -65.87 | 9.85 | -9.54 | 41.44 | 68.20 | -26.76 |

Table 7-47. Radiated Measurements SISO ANT2

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5200MHz

40

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10400.00 | Peak | V | - | - | -70.66 | 12.24 | 0.00 | 48.58 | 68.20 | -19.62 |
| * | 15600.00 | Average | ٧ | 129 | 333 | -81.89 | 15.40 | 0.00 | 40.51 | 53.98 | -13.46 |
| * | 15600.00 | Peak | V | 129 | 333 | -70.11 | 15.40 | 0.00 | 52.29 | 73.98 | -21.68 |
| * | 20800.00 | Average | Н | - | - | -78.44 | 7.85 | -9.54 | 26.86 | 53.98 | -27.11 |
| * | 20800.00 | Peak | Н | - | - | -67.66 | 7.85 | -9.54 | 37.64 | 73.98 | -36.33 |
| | 26000.00 | Peak | Н | - | - | -65.82 | 10.44 | -9.54 | 42.07 | 68.20 | -26.13 |

Table 7-48. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 195 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 185 of 249 |



Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz
Channel: 48

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10480.00 | Peak | V | 129 | 0 | -70.59 | 12.41 | 0.00 | 48.82 | 68.20 | -19.38 |
| * | 15720.00 | Average | ٧ | 158 | 339 | -81.56 | 16.70 | 0.00 | 42.14 | 53.98 | -11.84 |
| * | 15720.00 | Peak | ٧ | 158 | 339 | -69.99 | 16.70 | 0.00 | 53.71 | 73.98 | -20.27 |
| * | 20960.00 | Average | Н | - | - | -78.26 | 7.75 | -9.54 | 26.95 | 53.98 | -27.03 |
| * | 20960.00 | Peak | Н | - | - | -67.45 | 7.75 | -9.54 | 37.76 | 73.98 | -36.22 |
| | 26200.00 | Peak | Н | - | - | -65.99 | 10.26 | -9.54 | 41.73 | 68.20 | -26.47 |

Table 7-49. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10480.00 | Peak | V | 153 | 37 | -70.89 | 12.41 | 0.00 | 48.52 | 68.20 | -19.68 |
| * | 15720.00 | Average | ٧ | 190 | 321 | -81.51 | 16.70 | 0.00 | 42.19 | 53.98 | -11.79 |
| * | 15720.00 | Peak | V | 190 | 321 | -70.15 | 16.70 | 0.00 | 53.55 | 73.98 | -20.43 |
| * | 20960.00 | Average | V | 100 | 209 | -76.62 | 7.75 | -9.54 | 28.59 | 53.98 | -25.39 |
| * | 20960.00 | Peak | V | 100 | 209 | -65.20 | 7.75 | -9.54 | 40.01 | 73.98 | -33.97 |
| • | 26200.00 | Peak | V | - | - | -65.59 | 10.26 | -9.54 | 42.13 | 68.20 | -26.07 |

Table 7-50. Radiated Measurements SISO ANT2 with WCP

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 196 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 186 of 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10520.00 | Peak | V | - | - | -71.00 | 13.16 | 0.00 | 49.16 | 68.20 | -19.04 |
| * | 15780.00 | Average | ٧ | 123 | 326 | -82.11 | 16.21 | 0.00 | 41.10 | 53.98 | -12.88 |
| * | 15780.00 | Peak | V | 123 | 326 | -70.41 | 16.21 | 0.00 | 52.80 | 73.98 | -21.18 |
| * | 21040.00 | Average | Н | - | - | -77.78 | 7.78 | -9.54 | 27.46 | 53.98 | -26.52 |
| * | 21040.00 | Peak | Н | - | - | -67.50 | 7.78 | -9.54 | 37.74 | 73.98 | -36.24 |
| | 26300.00 | Peak | Н | - | - | -65.64 | 10.58 | -9.54 | 42.40 | 68.20 | -25.80 |

Table 7-51. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5280MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10560.00 | Peak | V | - | - | -71.02 | 13.66 | 0.00 | 49.64 | 68.20 | -18.56 |
| * | 15840.00 | Average | ٧ | - | - | -82.45 | 15.64 | 0.00 | 40.19 | 53.98 | -13.79 |
| * | 15840.00 | Peak | V | - | - | -71.20 | 15.64 | 0.00 | 51.44 | 73.98 | -22.54 |
| * | 21120.00 | Average | Н | - | - | -77.46 | 17.26 | -9.54 | 37.26 | 53.98 | -16.72 |
| * | 21120.00 | Peak | Н | - | - | -67.52 | 17.26 | -9.54 | 47.20 | 73.98 | -26.78 |
| | 26400.00 | Peak | Н | - | - | -65.53 | 19.67 | -9.54 | 51.60 | 68.20 | -16.60 |

Table 7-52. Radiated Measurements SISO ANT2

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 187 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 187 01 249 |



Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

Channel: 64

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 10640.00 | Average | V | - | - | -81.99 | 14.15 | 0.00 | 39.16 | 53.98 | -14.82 |
| * | 10640.00 | Peak | V | - | - | -70.90 | 14.15 | 0.00 | 50.25 | 73.98 | -23.73 |
| * | 15960.00 | Average | ٧ | 141 | 346 | -80.65 | 15.01 | 0.00 | 41.36 | 53.98 | -12.62 |
| * | 15960.00 | Peak | ٧ | 141 | 346 | -66.63 | 15.01 | 0.00 | 55.38 | 73.98 | -18.60 |
| * | 21280.00 | Average | Н | - | - | -77.38 | 17.51 | -9.54 | 37.59 | 53.98 | -16.39 |
| * | 21280.00 | Peak | Н | - | - | -67.20 | 17.51 | -9.54 | 47.77 | 73.98 | -26.21 |
| | 26600.00 | Peak | Н | - | - | -49.62 | 1.44 | -9.54 | 49.28 | 68.20 | -18.92 |

Table 7-53. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5320MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 10640.00 | Average | V | - | - | -82.13 | 14.15 | 0.00 | 39.02 | 53.98 | -14.96 |
| * | 10640.00 | Peak | ٧ | - | - | -71.15 | 14.15 | 0.00 | 50.00 | 73.98 | -23.98 |
| * | 15960.00 | Average | ٧ | 158 | 331 | -81.11 | 15.01 | 0.00 | 40.90 | 53.98 | -13.08 |
| * | 15960.00 | Peak | ٧ | 158 | 331 | -67.15 | 15.01 | 0.00 | 54.86 | 73.98 | -19.12 |
| * | 21280.00 | Average | ٧ | - | - | -77.27 | 17.51 | -9.54 | 37.70 | 53.98 | -16.28 |
| * | 21280.00 | Peak | V | - | - | -66.42 | 17.51 | -9.54 | 48.55 | 73.98 | -25.43 |
| • | 26600.00 | Peak | V | 100 | 123 | -46.95 | 1.44 | -9.54 | 51.95 | 68.20 | -16.25 |

Table 7-54. Radiated Measurements SISO ANT2 with WCP

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 199 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 188 of 249 |



Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz

Channel: 100

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11000.00 | Average | V | - | - | -81.70 | 13.55 | 0.00 | 38.85 | 53.98 | -15.13 |
| * | 11000.00 | Peak | ٧ | - | - | -71.01 | 13.55 | 0.00 | 49.54 | 73.98 | -24.44 |
| | 16500.00 | Peak | ٧ | 121 | 301 | -69.78 | 16.10 | 0.00 | 53.32 | 68.20 | -14.88 |
| | 22000.00 | Peak | Н | - | - | -66.54 | 8.71 | -9.54 | 39.63 | 68.20 | -28.57 |
| | 27500.00 | Peak | Н | - | - | -49.13 | -9.42 | -9.54 | 38.91 | 68.20 | -29.29 |

Table 7-55. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11200.00 | Average | V | - | - | -82.53 | 14.57 | 0.00 | 39.04 | 53.98 | -14.94 |
| * | 11200.00 | Peak | ٧ | - | - | -70.15 | 14.57 | 0.00 | 51.42 | 73.98 | -22.56 |
| | 16800.00 | Peak | ٧ | 118 | 313 | -68.70 | 17.52 | 0.00 | 55.82 | 68.20 | -12.38 |
| * | 22400.00 | Average | Н | - | - | -77.82 | 9.30 | -9.54 | 28.94 | 53.98 | -25.04 |
| * | 22400.00 | Peak | Н | - | - | -67.09 | 9.30 | -9.54 | 39.67 | 73.98 | -34.31 |
| | 28000.00 | Peak | Н | - | - | -49.99 | -9.24 | -9.54 | 38.23 | 68.20 | -29.97 |

Table 7-56. Radiated Measurements SISO ANT2

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 190 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 189 of 249 |



Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5720MHz

Channel: 144

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11440.00 | Average | V | 371 | 330 | -82.88 | 15.10 | 0.00 | 39.22 | 53.98 | -14.76 |
| * | 11440.00 | Peak | ٧ | 371 | 330 | -71.27 | 15.10 | 0.00 | 50.83 | 73.98 | -23.15 |
| | 17160.00 | Peak | ٧ | 115 | 319 | -68.32 | 18.83 | 0.00 | 57.51 | 68.20 | -10.69 |
| * | 22880.00 | Average | V | - | - | -78.35 | 8.86 | -9.54 | 27.97 | 53.98 | -26.01 |
| * | 22880.00 | Peak | V | - | - | -67.94 | 8.86 | -9.54 | 38.38 | 73.98 | -35.60 |
| | 28600.00 | Peak | V | - | - | -48.69 | -9.13 | -9.54 | 39.64 | 68.20 | -28.56 |

Table 7-57. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5720MHz
Channel: 144

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11440.00 | Average | V | 314 | 301 | -83.01 | 15.10 | 0.00 | 39.09 | 53.98 | -14.89 |
| * | 11440.00 | Peak | V | 314 | 301 | -71.39 | 15.10 | 0.00 | 50.71 | 73.98 | -23.27 |
| | 17160.00 | Peak | ٧ | 125 | 309 | -71.22 | 18.83 | 0.00 | 54.61 | 68.20 | -13.59 |
| * | 22880.00 | Average | ٧ | - | - | -77.91 | 8.86 | -9.54 | 28.41 | 53.98 | -25.57 |
| * | 22880.00 | Peak | ٧ | - | - | -67.50 | 8.86 | -9.54 | 38.82 | 73.98 | -35.16 |
| | 28600.00 | Peak | V | - | - | -47.98 | -9.13 | -9.54 | 40.35 | 68.20 | -27.85 |

Table 7-58. Radiated Measurements SISO ANT2 with WCP

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 100 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 190 of 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11490.00 | Average | V | - | - | -75.48 | 15.22 | 0.00 | 46.74 | 53.98 | -7.24 |
| * | 11490.00 | Peak | ٧ | - | - | -71.34 | 15.22 | 0.00 | 50.88 | 73.98 | -23.10 |
| | 17235.00 | Peak | V | 124 | 305 | -70.13 | 19.54 | 0.00 | 56.41 | 68.20 | -11.79 |
| * | 22980.00 | Average | ٧ | - | - | -78.01 | 8.38 | -9.54 | 27.83 | 53.98 | -26.15 |
| * | 22980.00 | Peak | V | - | - | -67.55 | 8.38 | -9.54 | 38.29 | 73.98 | -35.69 |
| | 28725.00 | Peak | V | - | - | -51.51 | -8.87 | -9.54 | 37.08 | 68.20 | -31.12 |

Table 7-59. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters Operating Frequency: 5785MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11570.00 | Average | V | - | - | -81.49 | 15.02 | 0.00 | 40.53 | 53.98 | -13.45 |
| * | 11570.00 | Peak | ٧ | - | - | -71.38 | 15.02 | 0.00 | 50.64 | 73.98 | -23.34 |
| | 17355.00 | Peak | ٧ | 118 | 316 | -73.29 | 23.41 | 0.00 | 57.12 | 68.20 | -11.08 |
| | 23140.00 | Peak | ٧ | - | - | -66.98 | 8.78 | -9.54 | 39.26 | 68.20 | -28.94 |
| | 28925.00 | Peak | V | - | - | -51.75 | -8.79 | -9.54 | 36.92 | 68.20 | -31.28 |

Table 7-60. Radiated Measurements SISO ANT2

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 191 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 191 01 249 |



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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11650.00 | Average | V | 318 | 0 | -73.89 | 14.92 | 0.00 | 48.03 | 53.98 | -5.95 |
| * | 11650.00 | Peak | ٧ | 318 | 0 | -68.50 | 14.92 | 0.00 | 53.42 | 73.98 | -20.56 |
| | 17475.00 | Peak | V | - | - | -72.67 | 21.86 | 0.00 | 56.19 | 68.20 | -12.01 |
| | 23300.00 | Peak | V | - | - | -65.76 | 9.23 | -9.54 | 40.93 | 68.20 | -27.27 |
| | 29125.00 | Peak | V | 115 | 121 | -42.35 | -9.66 | -9.54 | 45.45 | 68.20 | -22.75 |

Table 7-61. Radiated Measurements SISO ANT2

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11650.00 | Average | V | 299 | 11 | -76.89 | 14.92 | 0.00 | 45.03 | 53.98 | -8.95 |
| * | 11650.00 | Peak | ٧ | 299 | 11 | -71.00 | 14.92 | 0.00 | 50.92 | 73.98 | -23.06 |
| | 17475.00 | Peak | V | - | - | -72.89 | 21.86 | 0.00 | 55.97 | 68.20 | -12.23 |
| | 23300.00 | Peak | ٧ | - | - | -66.95 | 9.23 | -9.54 | 39.74 | 68.20 | -28.46 |
| | 29125.00 | Peak | ٧ | 100 | 135 | -44.50 | -9.66 | -9.54 | 43.30 | 68.20 | -24.90 |

Table 7-62. Radiated Measurements SISO ANT2 with WCP

| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 102 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 192 of 249 |



7.6.3 MIMO/CDD Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10360.00 | Peak | ٧ | 220 | 37 | -65.59 | 15.88 | 0.00 | 57.29 | 68.20 | -10.91 |
| * | 15540.00 | Average | ٧ | - | - | -81.20 | 23.03 | 0.00 | 48.83 | 53.98 | -5.15 |
| * | 15540.00 | Peak | V | - | - | -69.78 | 23.03 | 0.00 | 60.25 | 73.98 | -13.73 |
| * | 20720.00 | Average | V | - | - | -81.43 | 16.92 | -9.54 | 32.95 | 53.98 | -21.03 |
| * | 20720.00 | Peak | ٧ | - | - | -69.98 | 16.92 | -9.54 | 44.40 | 73.98 | -29.58 |
| | 25900.00 | Peak | V | - | - | -67.78 | 19.39 | -9.54 | 49.07 | 68.20 | -19.13 |

Table 7-63. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5200MHz Channel: 40

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10400.00 | Peak | V | 108 | 86 | -67.86 | 16.04 | 0.00 | 55.18 | 68.20 | -13.02 |
| * | 15600.00 | Average | V | 110 | 82 | -80.39 | 23.01 | 0.00 | 49.62 | 53.98 | -4.36 |
| * | 15600.00 | Peak | V | 110 | 82 | -68.89 | 23.01 | 0.00 | 61.12 | 73.98 | -12.86 |
| * | 20800.00 | Average | V | - | - | -81.11 | 17.39 | -9.54 | 33.73 | 53.98 | -20.24 |
| * | 20800.00 | Peak | V | - | - | -69.75 | 17.39 | -9.54 | 45.09 | 73.98 | -28.88 |
| | 26000.00 | Peak | V | - | - | -67.49 | 19.98 | -9.54 | 49.94 | 68.20 | -18.26 |

Table 7-64. Radiated Measurements MIMO/CDD

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 102 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 193 of 249 |



Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

Channel: 48

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10480.00 | Peak | V | 297 | 219 | -68.76 | 16.18 | 0.00 | 54.42 | 68.20 | -13.78 |
| * | 15720.00 | Average | ٧ | - | - | -81.02 | 23.46 | 0.00 | 49.44 | 53.98 | -4.54 |
| * | 15720.00 | Peak | V | - | - | -69.07 | 23.46 | 0.00 | 61.39 | 73.98 | -12.59 |
| * | 20960.00 | Average | V | - | - | -81.24 | 17.29 | -9.54 | 33.51 | 53.98 | -20.47 |
| * | 20960.00 | Peak | V | - | - | -69.50 | 17.29 | -9.54 | 45.25 | 73.98 | -28.73 |
| | 26200.00 | Peak | V | - | - | -67.24 | 19.80 | -9.54 | 50.02 | 68.20 | -18.18 |

Table 7-65. Radiated Measurements MIMO/CDD

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10480.00 | Peak | V | 163 | 15 | -67.24 | 16.04 | 0.00 | 55.80 | 68.20 | -12.40 |
| * | 15720.00 | Average | ٧ | - | - | -80.94 | 23.01 | 0.00 | 49.07 | 53.98 | -4.91 |
| * | 15720.00 | Peak | V | - | - | -68.76 | 23.01 | 0.00 | 61.25 | 73.98 | -12.73 |
| * | 20960.00 | Average | V | - | - | -80.94 | 17.29 | -9.54 | 33.81 | 53.98 | -20.17 |
| * | 20960.00 | Peak | V | - | - | -69.18 | 17.29 | -9.54 | 45.57 | 73.98 | -28.41 |
| | 26200.00 | Peak | V | - | - | -67.65 | 19.80 | -9.54 | 49.61 | 68.20 | -18.59 |

Table 7-66. Radiated Measurements MIMO/CDD with WCP

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 404 of 240 |
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Channel:

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

52

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| | 10520.00 | Peak | V | - | - | -69.30 | 13.16 | 0.00 | 50.86 | 68.20 | -17.34 |
| * | 15780.00 | Average | ٧ | 113 | 14 | -78.50 | 16.21 | 0.00 | 44.71 | 53.98 | -9.27 |
| * | 15780.00 | Peak | V | 113 | 14 | -69.26 | 16.21 | 0.00 | 53.95 | 73.98 | -20.03 |
| * | 21040.00 | Average | V | - | - | -80.94 | 17.32 | -9.54 | 33.84 | 53.98 | -20.14 |
| * | 21040.00 | Peak | ٧ | - | - | -69.17 | 17.32 | -9.54 | 45.61 | 73.98 | -28.37 |
| | 26300.00 | Peak | V | - | - | -67.41 | 20.12 | -9.54 | 50.17 | 68.20 | -18.03 |

Table 7-67. Radiated Measurements MIMO/CDD

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5280MHz

56

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10560.00 | Peak | V | - | - | -69.44 | 13.66 | 0.00 | 51.22 | 68.20 | -16.98 |
| * | 15840.00 | Average | ٧ | - | - | -81.30 | 15.64 | 0.00 | 41.34 | 53.98 | -12.64 |
| * | 15840.00 | Peak | ٧ | ı | - | -69.58 | 15.64 | 0.00 | 53.06 | 73.98 | -20.92 |
| * | 21120.00 | Average | ٧ | ı | - | -81.13 | 17.26 | -9.54 | 33.59 | 53.98 | -20.39 |
| * | 21120.00 | Peak | ٧ | - | - | -69.52 | 17.26 | -9.54 | 45.20 | 73.98 | -28.78 |
| | 26400.00 | Peak | V | | - | -67.57 | 19.67 | -9.54 | 49.56 | 68.20 | -18.64 |

Table 7-68. Radiated Measurements MIMO/CDD

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 105 of 240 |
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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz

Channel: 64

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 10640.00 | Average | V | 100 | 188 | -80.28 | 14.15 | 0.00 | 40.87 | 53.98 | -13.11 |
| * | 10640.00 | Peak | ٧ | 100 | 188 | -69.14 | 14.15 | 0.00 | 52.01 | 73.98 | -21.97 |
| * | 15960.00 | Average | ٧ | 102 | 174 | -80.53 | 15.01 | 0.00 | 41.48 | 53.98 | -12.50 |
| * | 15960.00 | Peak | ٧ | 102 | 174 | -69.49 | 15.01 | 0.00 | 52.52 | 73.98 | -21.46 |
| * | 21280.00 | Average | V | - | - | -81.21 | 17.51 | -9.54 | 33.76 | 53.98 | -20.22 |
| * | 21280.00 | Peak | V | - | - | -69.14 | 17.51 | -9.54 | 45.83 | 73.98 | -28.15 |
| | 26600.00 | Peak | V | - | - | -49.96 | 1.44 | -9.54 | 48.94 | 68.20 | -19.26 |

Table 7-69. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| | 10640.00 | Average | V | 120 | 363 | -79.94 | 14.15 | 0.00 | 41.21 | 53.98 | -12.77 |
| * | 10640.00 | Peak | V | 120 | 363 | -68.05 | 14.15 | 0.00 | 53.10 | 73.98 | -20.88 |
| * | 15960.00 | Average | V | 135 | 352 | -80.85 | 15.01 | 0.00 | 41.16 | 53.98 | -12.82 |
| * | 15960.00 | Peak | ٧ | 135 | 352 | -69.58 | 15.01 | 0.00 | 52.43 | 73.98 | -21.55 |
| * | 21280.00 | Average | ٧ | - | - | -80.47 | 17.32 | -9.54 | 34.31 | 53.98 | -19.67 |
| | 21280.00 | Peak | V | - | - | -69.49 | 17.32 | -9.54 | 45.29 | 73.98 | -28.69 |
| | 26600.00 | Peak | V | - | - | -67.68 | 20.12 | -9.54 | 49.90 | 68.20 | -18.30 |

Table 7-70. Radiated Measurements MIMO/CDD with WCP

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 106 of 240 |
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5500MHz

Channel: 100

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11000.00 | Average | V | 100 | 186 | -79.30 | 13.55 | 0.00 | 41.25 | 53.98 | -12.73 |
| * | 11000.00 | Peak | V | 100 | 186 | -68.00 | 13.55 | 0.00 | 52.55 | 73.98 | -21.43 |
| | 16500.00 | Peak | V | 102 | 80 | -68.13 | 16.10 | 0.00 | 54.97 | 68.20 | -13.23 |
| | 22000.00 | Peak | ٧ | - | - | -80.78 | 18.25 | -9.54 | 34.93 | 68.20 | -33.27 |
| | 27500.00 | Peak | V | - | - | -49.07 | 0.12 | -9.54 | 48.51 | 68.20 | -19.69 |

Table 7-71. Radiated Measurements MIMO/CDD

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5600MHz

120

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11200.00 | Average | ٧ | 100 | 238 | -79.76 | 14.57 | 0.00 | 41.81 | 53.98 | -12.17 |
| * | 11200.00 | Peak | ٧ | 100 | 238 | -68.12 | 14.57 | 0.00 | 53.45 | 73.98 | -20.53 |
| | 16800.00 | Peak | V | 110 | 250 | -69.40 | 17.52 | 0.00 | 55.12 | 68.20 | -13.08 |
| * | 22400.00 | Average | V | - | - | -80.59 | 19.00 | -9.54 | 35.87 | 53.98 | -18.11 |
| * | 22400.00 | Peak | V | - | - | -69.03 | 19.00 | -9.54 | 47.43 | 73.98 | -26.55 |
| | 28000.00 | Peak | V | - | - | -49.33 | 0.74 | -9.54 | 48.86 | 68.20 | -19.34 |

Table 7-72. Radiated Measurements MIMO/CDD

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|-------------|------------------------------------|------------------------------|
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Channel:

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

144

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11440.00 | Average | ٧ | 100 | 308 | -77.32 | 15.10 | 0.00 | 44.78 | 53.98 | -9.20 |
| * | 11440.00 | Peak | ٧ | 100 | 308 | -64.65 | 15.10 | 0.00 | 57.45 | 73.98 | -16.53 |
| | 17160.00 | Peak | ٧ | 107 | 320 | -64.02 | 18.83 | 0.00 | 61.81 | 68.20 | -6.39 |
| * | 22880.00 | Average | ٧ | - | - | -80.53 | 18.40 | -9.54 | 35.33 | 53.98 | -18.65 |
| * | 22880.00 | Peak | V | - | - | -69.49 | 18.40 | -9.54 | 46.37 | 73.98 | -27.61 |
| | 28600.00 | Peak | V | - | - | -48.50 | 0.41 | -9.54 | 49.37 | 68.20 | -18.83 |

Table 7-73. Radiated Measurements MIMO/CDD

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11200.00 | Average | ٧ | - | | -81.91 | 14.57 | 0.00 | 39.66 | 53.98 | -14.32 |
| * | 11200.00 | Peak | ٧ | - | - | -69.88 | 14.57 | 0.00 | 51.69 | 73.98 | -22.29 |
| | 16800.00 | Peak | V | 126 | 231 | -70.89 | 17.52 | 0.00 | 53.63 | 68.20 | -14.57 |
| * | 22400.00 | Average | V | - | - | -80.66 | 19.00 | -9.54 | 35.80 | 53.98 | -18.18 |
| * | 22400.00 | Peak | V | - | - | -69.44 | 19.00 | -9.54 | 47.02 | 73.98 | -26.96 |
| | 28000.00 | Peak | V | - | - | -48.90 | 0.74 | -9.54 | 49.29 | 68.20 | -18.91 |

Table 7-74. Radiated Measurements MIMO/CDD with WCP

| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--------------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 109 of 240 |
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Channel:

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

149

Distance Ant. **Antenna Turntable Analyzer** Field **AFCL** Frequency Correction Limit Margin **Detector** Pol. Height **Azimuth** Level Strength [MHz] [dB/m] [dBµV/m] [dB] **Factor** [H/V] [dBµV/m] [cm] [degree] [dBm] [dB] 11490.00 Average ٧ 143 335 -78.85 15.22 0.00 43.37 53.98 -10.61 11490.00 Peak ٧ 143 335 -65.55 15.22 0.00 56.67 73.98 -17.31 17235.00 ٧ 111 52 -64.51 19.54 0.00 62.03 68.20 Peak -6.17 22980.00 Average ٧ -81.50 17.92 -9.54 33.88 53.98 -20.10 22980.00 Peak ٧ -69.85 17.92 -9.54 45.53 73.98 -28.45 ٧ 28725.00 Peak -48.86 0.67 -9.54 49.27 69.20 -19.93

Table 7-75. Radiated Measurements MIMO/CDD

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11570.00 | Average | V | 318 | 340 | -76.10 | 15.02 | 0.00 | 45.92 | 53.98 | -8.06 |
| * | 11570.00 | Peak | ٧ | 318 | 340 | -64.82 | 15.02 | 0.00 | 57.20 | 73.98 | -16.78 |
| | 17355.00 | Peak | ٧ | 118 | 35 | -66.00 | 23.41 | 0.00 | 64.41 | 68.20 | -3.79 |
| | 23140.00 | Peak | V | - | - | -69.51 | 18.32 | -9.54 | 46.27 | 68.20 | -21.93 |
| | 28925.00 | Peak | V | - | - | -49.14 | 0.75 | -9.54 | 49.07 | 68.20 | -19.13 |

Table 7-76. Radiated Measurements MIMO/CDD

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 100 of 240 |
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5825MHz Channel: 165

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|--|-------------------------------|-------------------|----------------|
| * | 11650.00 | Average | V | 315 | 336 | -75.21 | 14.92 | 0.00 | 46.71 | 53.98 | -7.27 |
| * | 11650.00 | Peak | ٧ | 315 | 336 | -63.56 | 14.92 | 0.00 | 58.36 | 73.98 | -15.62 |
| | 17475.00 | Peak | V | 124 | 306 | -67.20 | 21.86 | 0.00 | 61.66 | 68.20 | -6.54 |
| | 23300.00 | Peak | V | - | - | -69.78 | 18.77 | -9.54 | 46.45 | 68.20 | -21.75 |
| | 29125.00 | Peak | V | - | - | -49.04 | -0.12 | -9.54 | 48.30 | 68.20 | -19.90 |

Table 7-77. Radiated Measurements MIMO/CDD

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

| | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
| * | 11570.00 | Average | V | 256 | 321 | -78.55 | 14.92 | 0.00 | 43.37 | 53.98 | -10.61 |
| * | 11570.00 | Peak | ٧ | 256 | 321 | -66.76 | 14.92 | 0.00 | 55.16 | 73.98 | -18.82 |
| | 17355.00 | Peak | ٧ | 178 | 298 | -71.11 | 21.86 | 0.00 | 57.75 | 68.20 | -10.45 |
| | 23140.00 | Peak | ٧ | - | - | -69.74 | 18.32 | -9.54 | 46.04 | 68.20 | -22.16 |
| | 28925.00 | Peak | V | - | - | -49.26 | 0.75 | -9.54 | 48.95 | 68.20 | -19.25 |

Table 7-78. Radiated Measurements MIMO/CDD with WCP

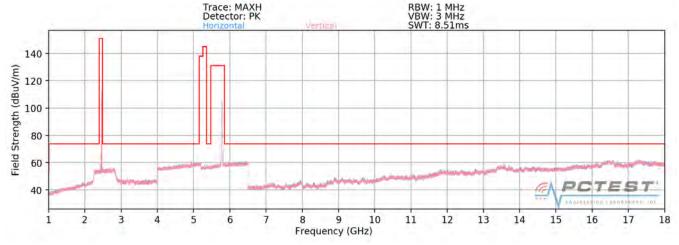
| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
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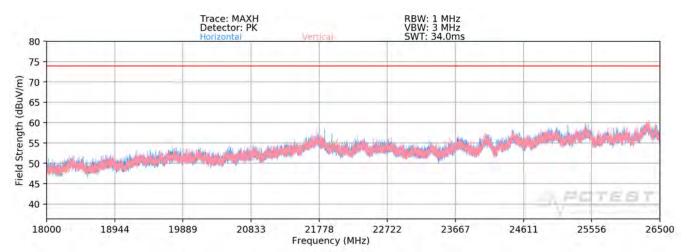
7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

| Description | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna | 1 | 2 |
| Channel | 11 | 157 |
| Operating Frequency (MHz) | 2462 | 5785 |
| Data Rate (Mbps) | 1 | 6 |
| Mode | 802.11b | 802.11a |

Table 7-79. Simultaneous Transmission Config-1



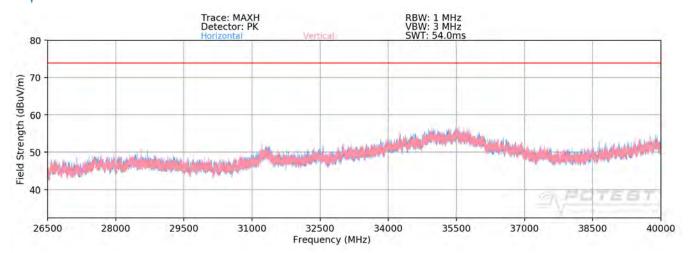
Plot 7-277. Radiated Spurious Plot above 1GHz (2.4GHz - 5GHz)



Plot 7-278. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
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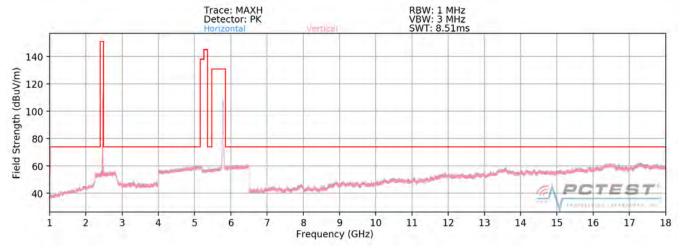
Plot 7-279. Radiated Spurious Plot above 26.5GHz (2.4GHz - 5GHz)

| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--------------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 202 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 202 01 249 |



| Description | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna | 2 | 1 |
| Channel | 11 | 157 |
| Operating Frequency (MHz) | 2462 | 5785 |
| Data Rate (Mbps) | 1 | 6 |
| Mode | 802.11b | 802.11a |

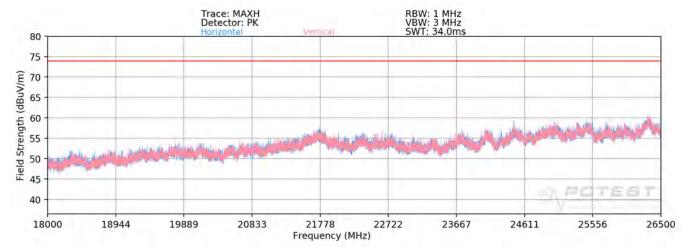
Table 7-80. Simultaneous Transmission Config-2



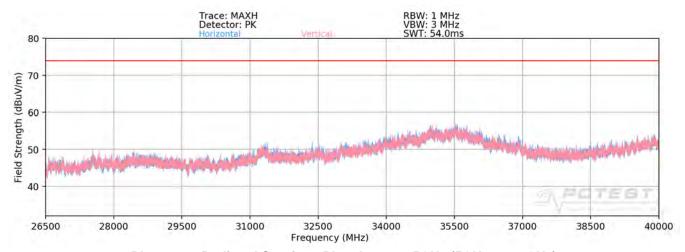
Plot 7-280. Radiated Spurious Plot above 1GHz (5GHz - 2.4 GHz)

| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--------------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 203 of 249 |
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Plot 7-281. Radiated Spurious Plot 18GHz - 26.5GHz (5GHz - 2.4 GHz)



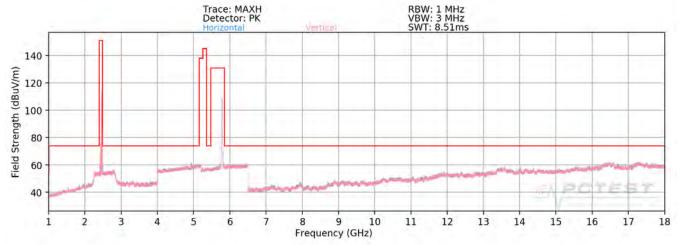
Plot 7-282. Radiated Spurious Plot above 26.5GHz (5GHz - 2.4 GHz)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 204 of 249 |
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| Description | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna | 1, 2 | 1, 2 |
| Channel | 11 | 157 |
| Operating Frequency (MHz) | 2462 | 5785 |
| Data Rate (Mbps) | 6 | 6 |
| Mode | 802.11g | 802.11a |

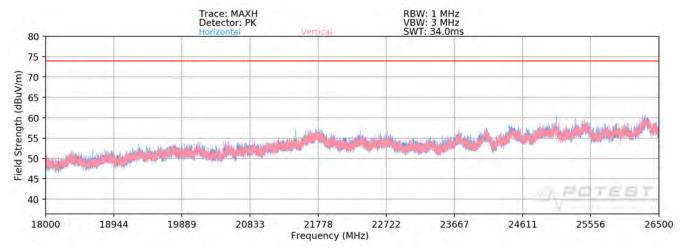
Table 7-81. Dual Band Simultaneous Transmission



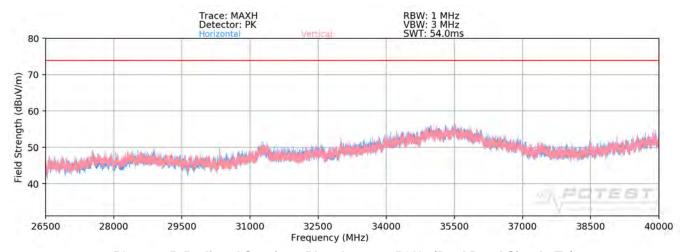
Plot 7-283. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)

| FCC ID: A3LSMG9730 | PETEST" | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 205 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 205 of 249 |





Plot 7-284. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)



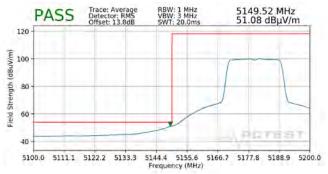
Plot 7-285. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 206 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | raye 200 01 249 |

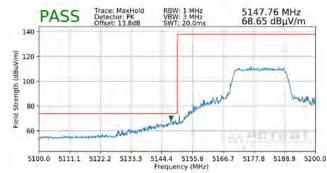


7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

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



Plot 7-286. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)



Plot 7-287. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 1)

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



Plot 7-288. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 2A)



Plot 7-289. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 2A)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 207 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | raye 201 01 249 |

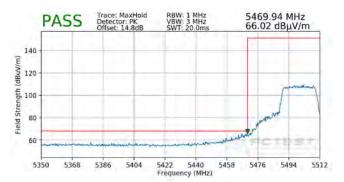


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5500MHz
100



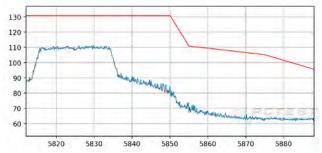
Plot 7-290. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-291. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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

802.11ax
MCS0
3 Meters
5825MHz
165



Plot 7-292. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 208 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 206 01 249 |



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



Plot 7-293. Radiated Band Edge Plot SISO ANT1 (Average - WCP)



Plot 7-294. Radiated Band Edge Plot SISO ANT1 (Peak - WCP)

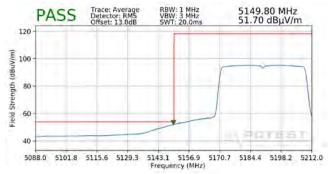
| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dago 200 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 209 of 249 |



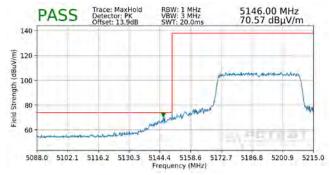
7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

802.11ax
MCS0
3 Meters
5190MHz
38



Plot 7-295. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)



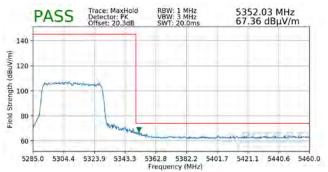
Plot 7-296. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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

802.11ax
MCS0
3 Meters
5310MHz
62



Plot 7-297. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



Plot 7-298. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 210 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 210 of 249 |



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

802.11ax
MCS0
3 Meters
5510MHz
102



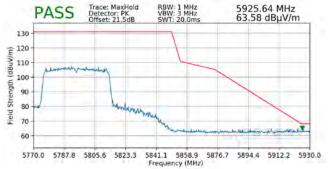
Plot 7-299. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-300. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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

802.11ax
MCS0
3 Meters
5795MHz
159



Plot 7-301. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 211 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 211 of 249 |



802.11ax Worst Case Mode: Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5310MHz Channel: 62



Plot 7-302. Radiated Band Edge Plot SISO ANT1 (Average - WCP)



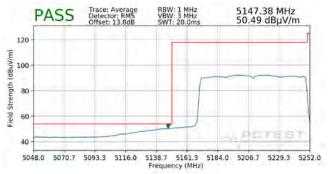
Plot 7-303. Radiated Band Edge Plot SISO ANT1 (Peak - WCP)

| FCC ID: A3LSMG9730 | PETEST HEIMFINNE ARRATION INC. | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--------------------------------|------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 212 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 212 of 249 |

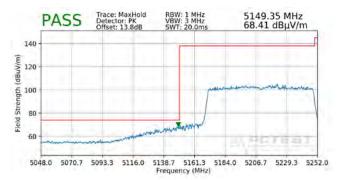


7.6.7 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS₀ Distance of Measurements: 3 Meters Operating Frequency: 5210MHz Channel: 42



Plot 7-304. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

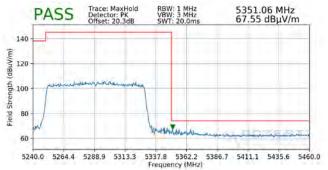


Plot 7-305. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 1)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS₀ Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-306. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 2A)



Plot 7-307. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 2A)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | MSUNG | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|-------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Daga 242 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | | Page 213 of 249 |

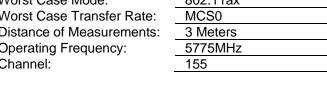


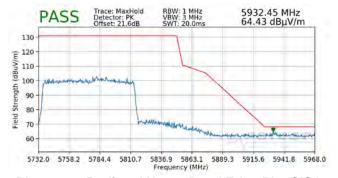
Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz Channel: 106



Plot 7-308. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C)

Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: Distance of Measurements: 3 Meters Operating Frequency: 5775MHz Channel: 155





Plot 7-310. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3)

| PAS | | Offset: 13 | .8dB | SWT: 2 | 20.0ms | 00. | .41 dBμV/n |
|-------|---|------------|-------------|--------|--------|------------------|------------|
| 0 | 1 | | | | | | |
| 0 | | | | | | | |
| 0 | | | | | puter | and the state of | - White |
| 0 - | | | | | | | |
| 0 | | | - Annahaman | white | ww | | CTRE |
| - min | | half- | | | | | |

Plot 7-309. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C)

| FCC ID: A3LSMG9730 | PETEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 214 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 214 of 249 |



Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

802.11ax

MCS0

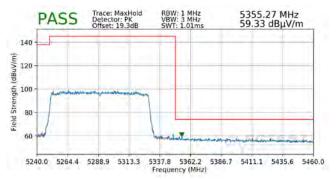
3 Meters

5290MHz

58



Plot 7-311. Radiated Band Edge Plot SISO ANT1 (Average – WCP)



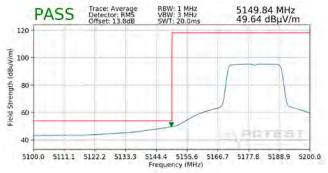
Plot 7-312. Radiated Band Edge Plot SISO ANT1 (Peak – WCP)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 215 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 215 of 249 |

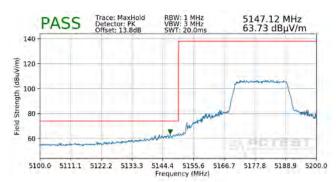


7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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



Plot 7-313. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

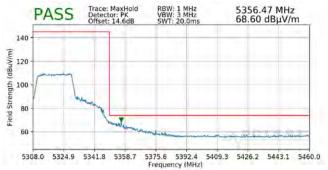


Plot 7-314. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 1)

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



Plot 7-315. Radiated Upper Band Edge Plot SISO ANT2 (Average - UNII Band 2A)



Plot 7-316. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A)

| FCC ID: A3LSMG9730 | HEIMELERNY LARBAATPAA, JAL | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|----------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 216 of 240 |
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

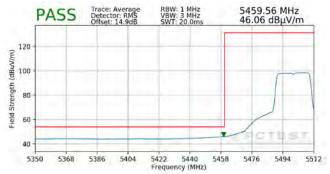
802.11ax

MCS0

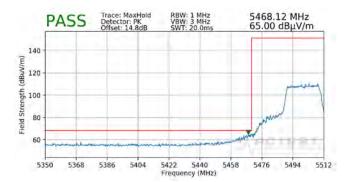
3 Meters

5500MHz

100



Plot 7-317. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-318. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

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

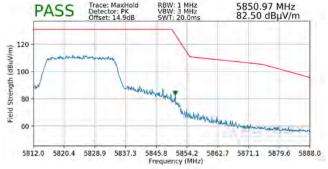
802.11ax

MCS0

3 Meters

5825MHz

165



Plot 7-319. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

| FCC ID: A3LSMG9730 | PETEST INCIDENT IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION INTERPRET | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 217 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 217 of 249 |



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

802.11ax
MCS0
3 Meters
5320MHz
64



Plot 7-320. Radiated Band Edge Plot SISO ANT2 (Average – WCP)



Plot 7-321. Radiated Band Edge Plot SISO ANT2 (Peak – WCP)

| FCC ID: A3LSMG9730 | PETEST INCIDENT IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION INTERPRET | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 219 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 218 of 249 |



7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (40MHz 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: 5190MHz Channel: 38



Plot 7-322. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

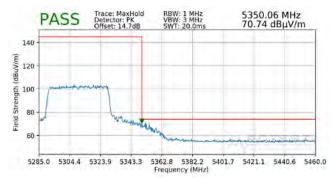


Plot 7-323. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 1)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS₀ Distance of Measurements: 3 Meters Operating Frequency: 5310MHz Channel: 62



Plot 7-324. Radiated Upper Band Edge Plot SISO ANT2 (Average - UNII Band 2A)



Plot 7-325. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A)

| FCC ID: A3LSMG9730 | HEIMELERNY LARBAATPAA, JAL | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|----------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 210 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 219 of 249 |



Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

802.11ax

MCS0

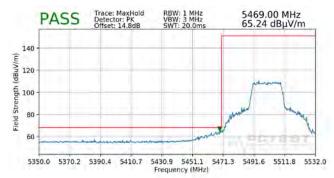
3 Meters

5510MHz

102



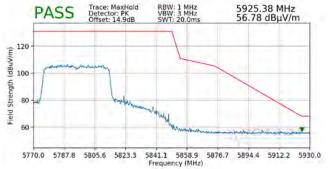
Plot 7-326. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-327. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

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

802.11ax
MCS0
3 Meters
5795MHz
159



Plot 7-328. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 220 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 220 01 249 |



Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5310MHz Channel: 62



Plot 7-329. Radiated Band Edge Plot SISO ANT2 (Average - WCP)



Plot 7-330. Radiated Band Edge Plot SISO ANT2 (Peak - WCP)

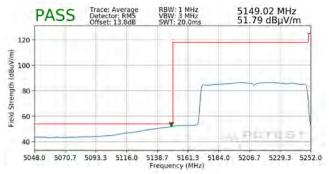
| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 221 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 221 of 249 |



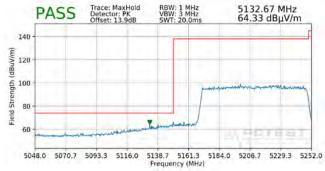
7.6.10 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

802.11ax
MCS0
3 Meters
5210MHz
42



Plot 7-331. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)



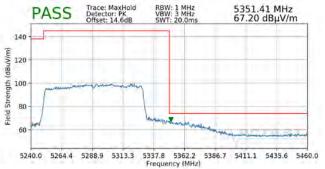
Plot 7-332. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

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

802.11ax
MCS0
3 Meters
5290MHz
58



Plot 7-333. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-334. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 222 of 249 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Fage 222 01 249 |

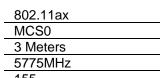


Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz Channel: 106



Plot 7-335. Radiated Lower Band Edge Plot SISO ANT2 (Average - UNII Band 2C)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5775MHz Channel: 155





Plot 7-337. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3)

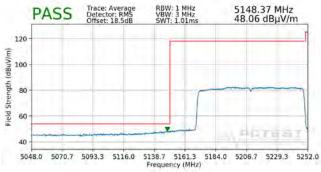
| | PAS | 3 | Offs | ector: Fet: 14. | 9dB | VBW: SWT: 2 | 20.0ms | | 66 | .06 dB | μV/m |
|------|-----|---|------|-----------------|-----------|--|-------------|---------|------|--------|---------|
| 40 | | | + | | H | + | - | | | | |
| 20- | | - | + | | - | + | - | | | | |
| 00 | | | + | | | | - | present | 4474 | manuel | vinden. |
| 80 - | | | 4 | | | | + | | | | |
| 60 | | | | بالداماليات | Anguides. | Mary Mary and Mary an | Winner Mary | | | ice. | 121 |

Plot 7-336. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 2C)

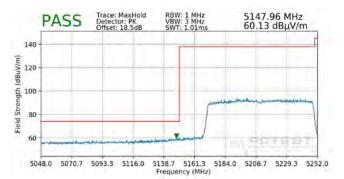
| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 222 of 240 |
| 1M1811230206-06.A3L | 12/14/2018 - 1/14/2019 | Portable Handset | Page 223 of 249 |



Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5210MHz Channel: 42



Plot 7-338. Radiated Band Edge Plot SISO ANT2 (Average - WCP)



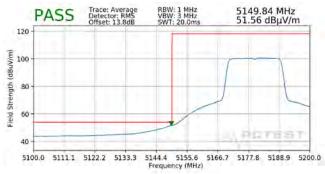
Plot 7-339. Radiated Band Edge Plot SISO ANT2 (Peak - WCP)

| FCC ID: A3LSMG9730 | PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|------------------------|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 224 of 240 |
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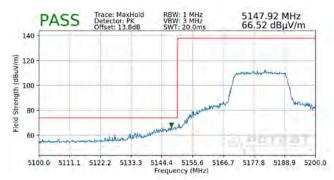


7.6.11 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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



Plot 7-340. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

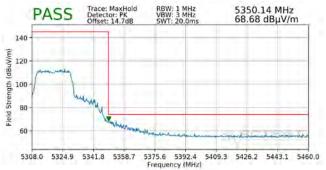


Plot 7-341. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1)

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



Plot 7-342. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A)



Plot 7-343. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A)

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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

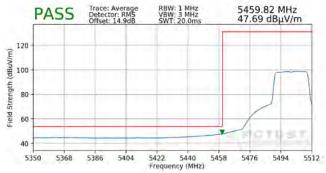
802.11ax

MCS0

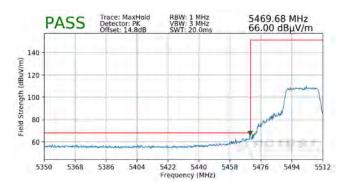
3 Meters

5500MHz

100



Plot 7-344. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-345. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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

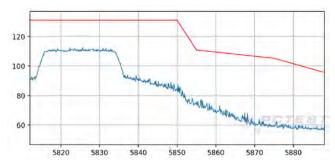
802.11ax

MCS0

3 Meters

5825MHz

165

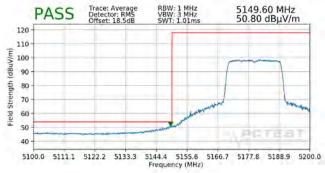


Plot 7-346. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

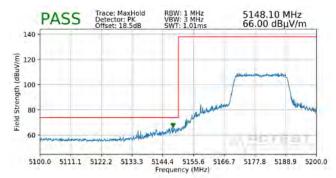
| FCC ID: A3LSMG9730 | PETEST INCIDENT IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION INTERPRET | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 226 of 240 |
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5180MHz Channel: 36



Plot 7-347. Radiated Band Edge Plot MIMO (Average - WCP)



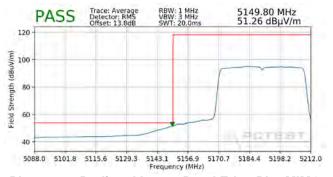
Plot 7-348. Radiated Band Edge Plot MIMO (Peak -WCP)

| FCC ID: A3LSMG9730 | PETEST INCIDENT IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION IN THE INTERPRETATION INTERPRET | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|--|------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 227 of 240 |
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7.6.12 MIMO Radiated Band Edge Measurements (40MHz 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: 5190MHz Channel: 38



Plot 7-349. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 7-350. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1)

Worst Case Mode: 802.11ax MCS0 Worst Case Transfer Rate: Distance of Measurements: 3 Meters Operating Frequency: 5310MHz Channel: 62



Plot 7-351. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A)



Plot 7-352. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A)

| FCC ID: A3LSMG9730 | HEIMELERNY LARBAATPAA, JAL | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|---------------------|----------------------------|---------------------------------------|------------------------------|
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