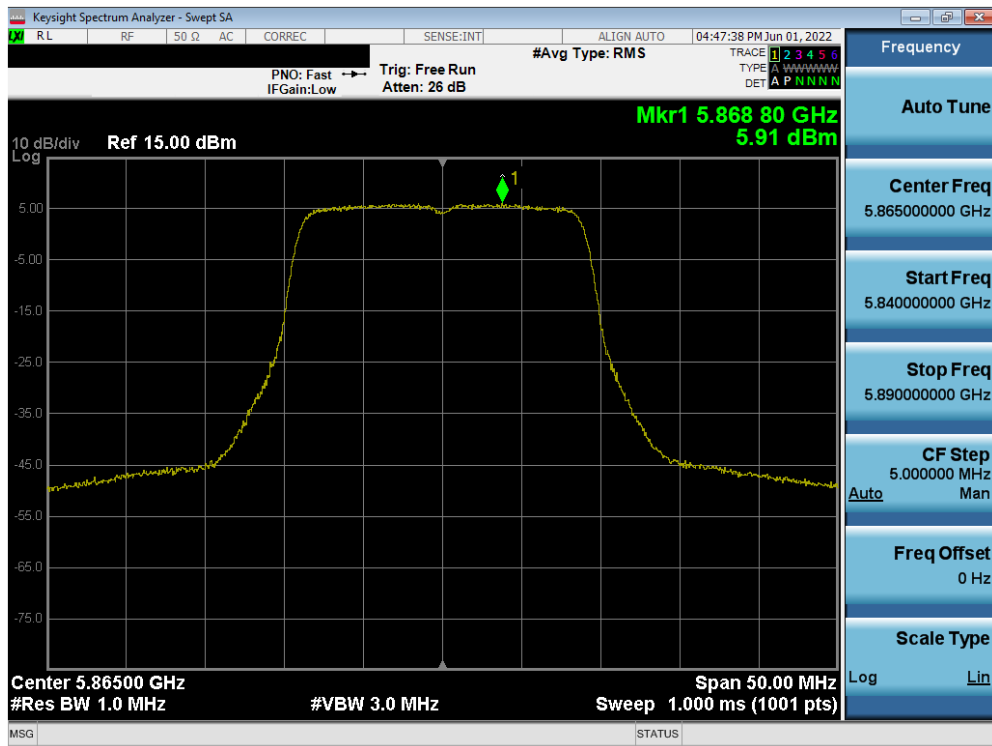
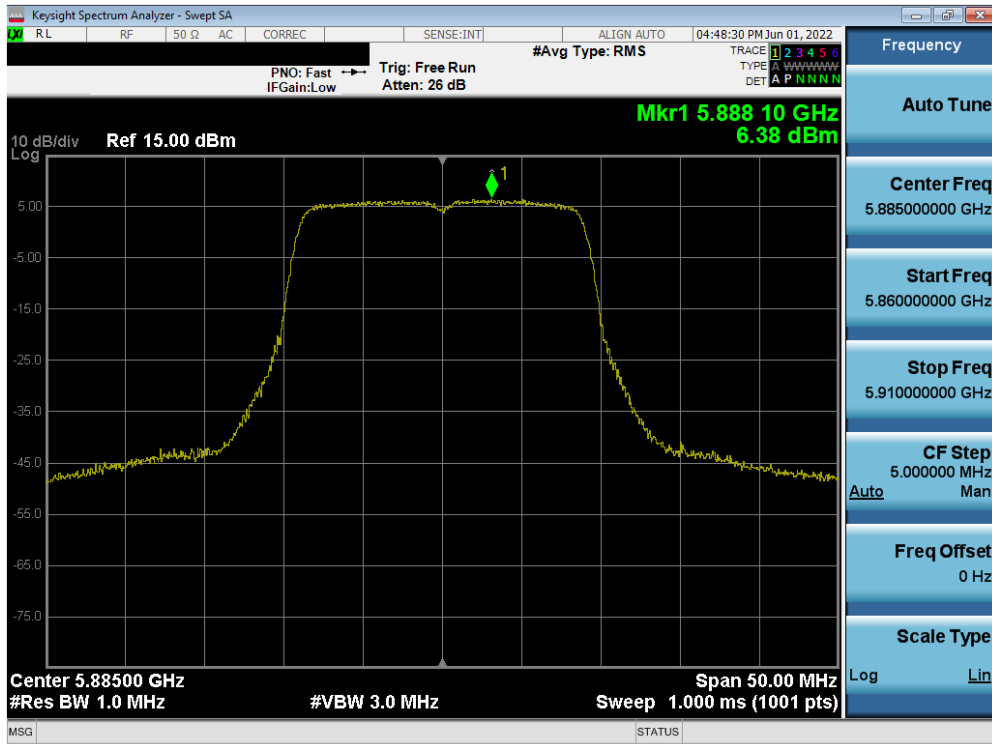


Plot 7-261. Power Spectral Density SISO ANT1 (20MHz BW 802.11ac (UNII Band 3/4) – Ch. 169)

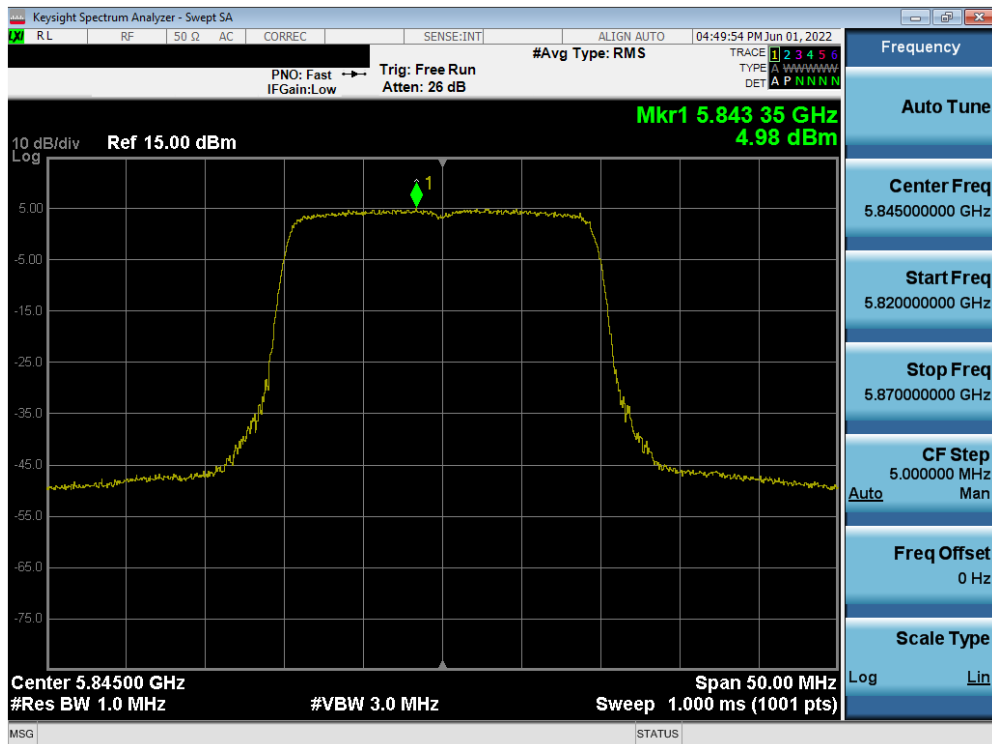


Plot 7-262. Power Spectral Density SISO ANT1 (20MHz BW 802.11ac (UNII Band 4) – Ch. 173)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 168 of 304 |

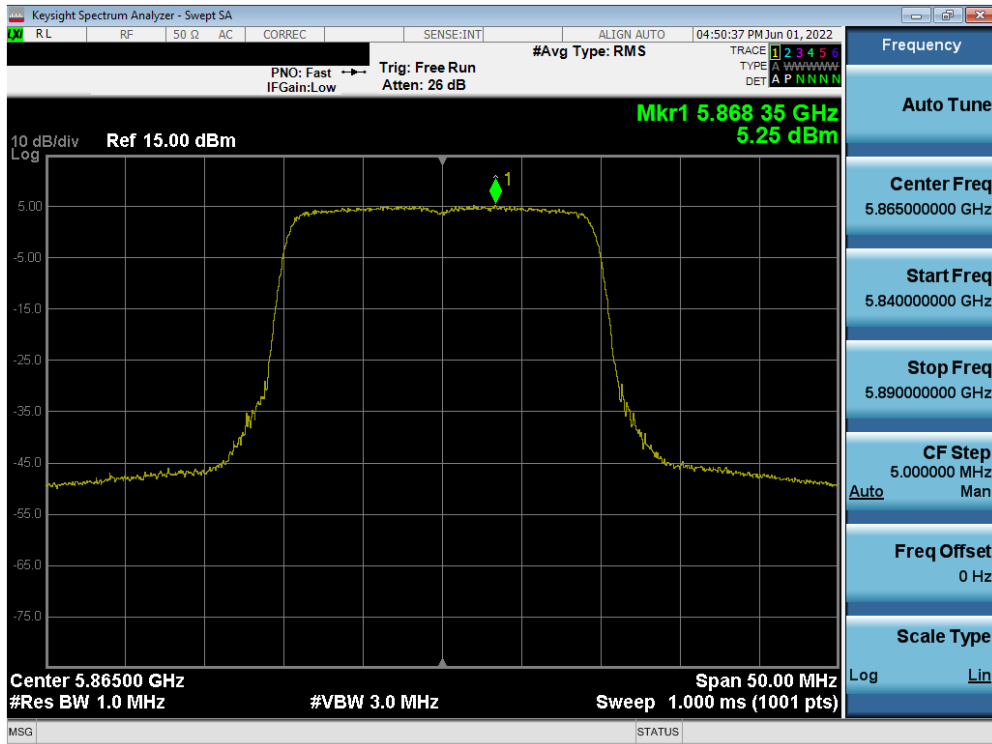


Plot 7-263. Power Spectral Density SISO ANT1 (20MHz BW 802.11ac (UNII Band 4) – Ch. 177)

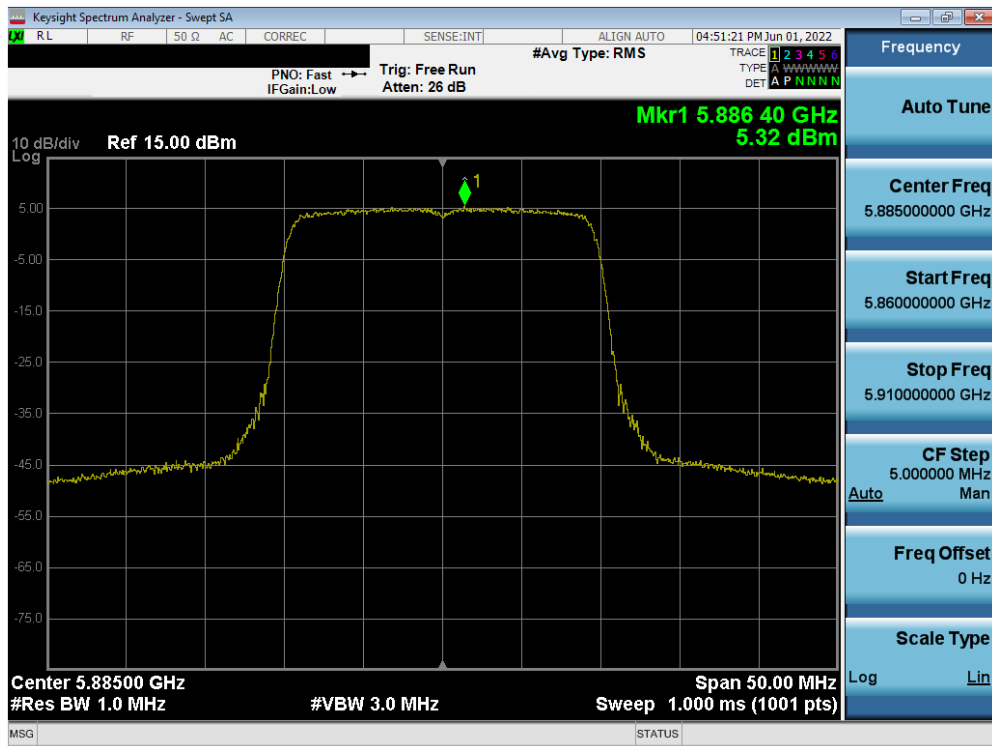


Plot 7-264. Power Spectral Density SISO ANT1 (20MHz BW 802.11ax (UNII Band 3/4) – Ch. 169)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 169 of 304 |

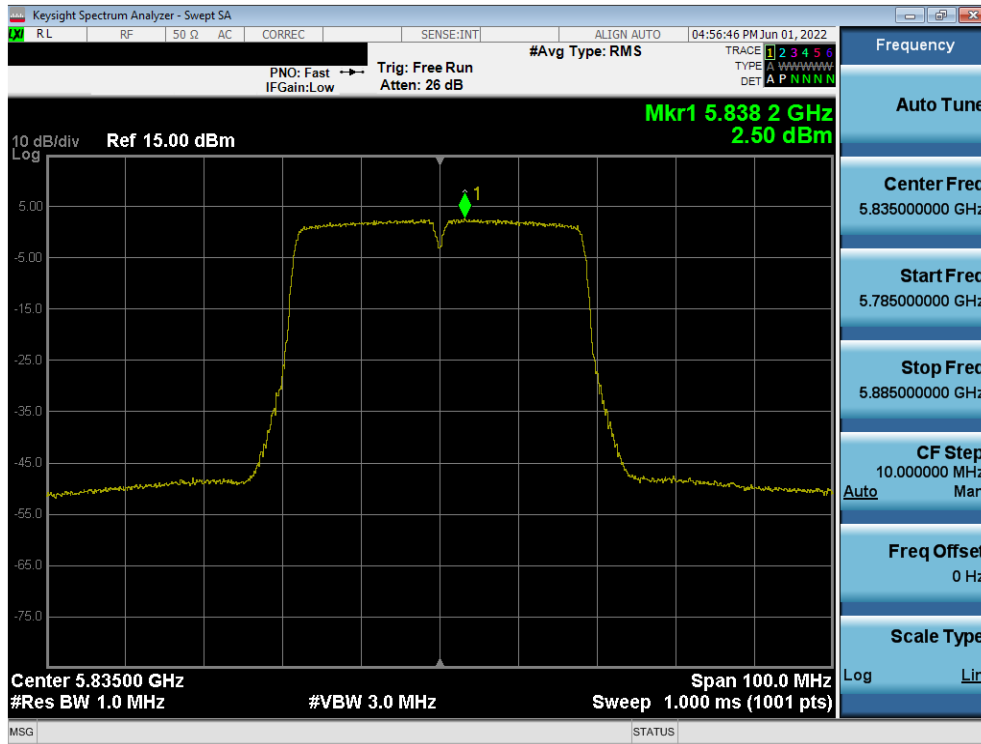


Plot 7-265. Power Spectral Density SISO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

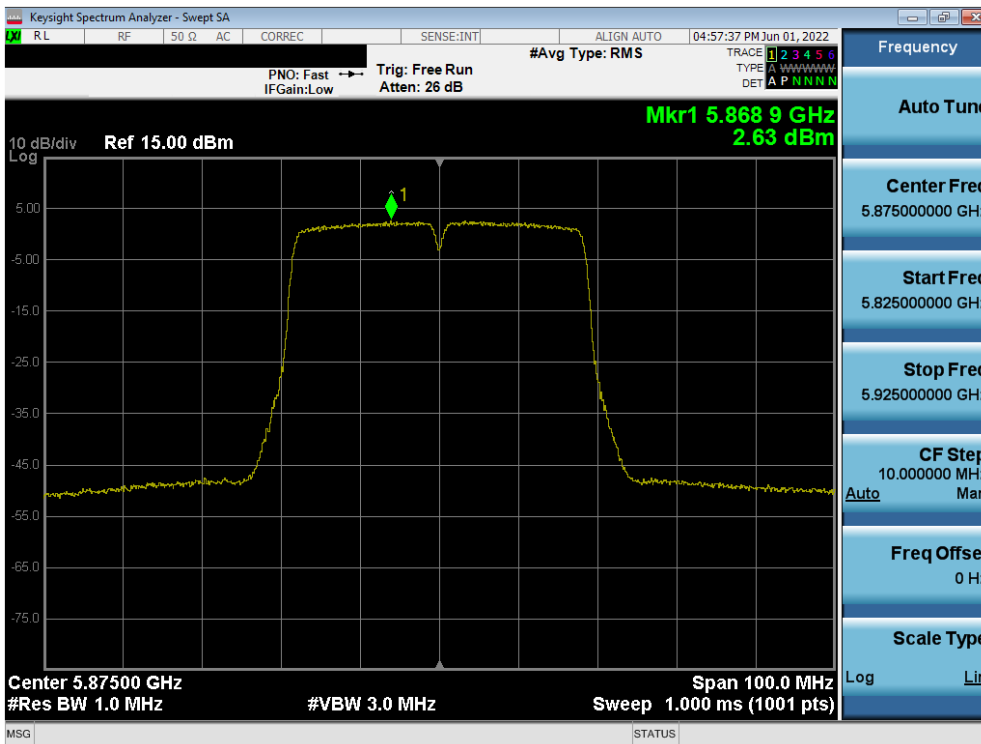


Plot 7-266. Power Spectral Density SISO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 177)

| MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: |
|------------------------------------|----------------------|------------------|-------------------|
| FCC ID: A3LSMF721U | | | Technical Manager |
| Test Report S/N: | Test Dates: | EUT Type: | Page 170 of 304 |
| 1M2204080051-14-R1.A3L | 4/8/2022 – 7/12/2022 | Portable Handset | |

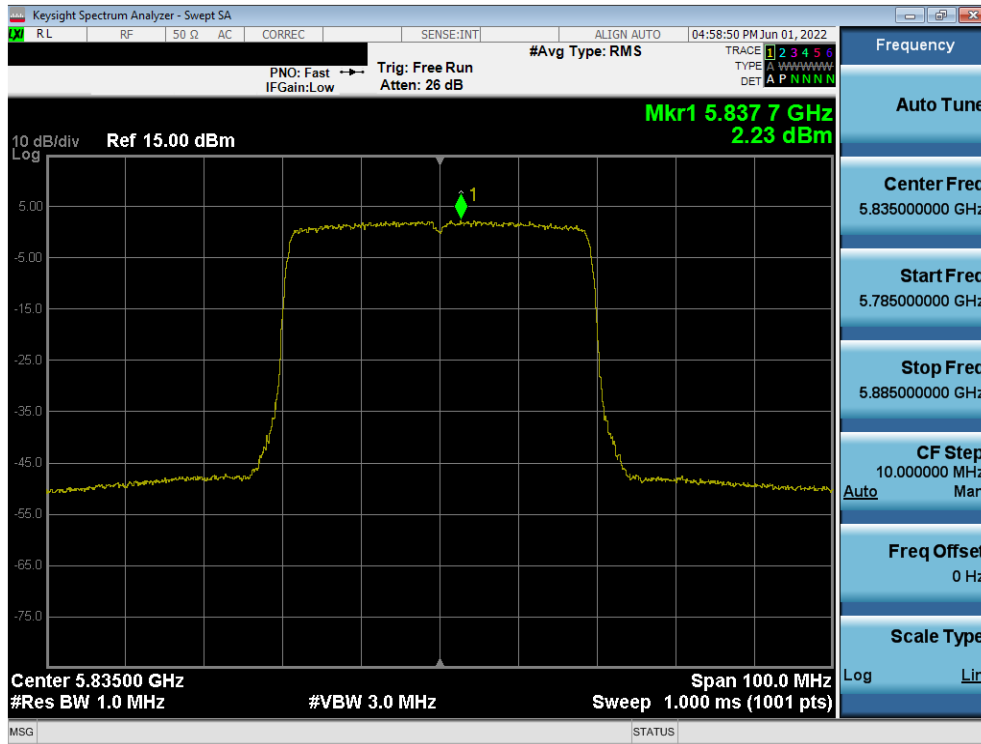


Plot 7-269. Power Spectral Density SISO ANT1 (40MHz BW 802.11ac (UNII Band 3/4) – Ch. 167)

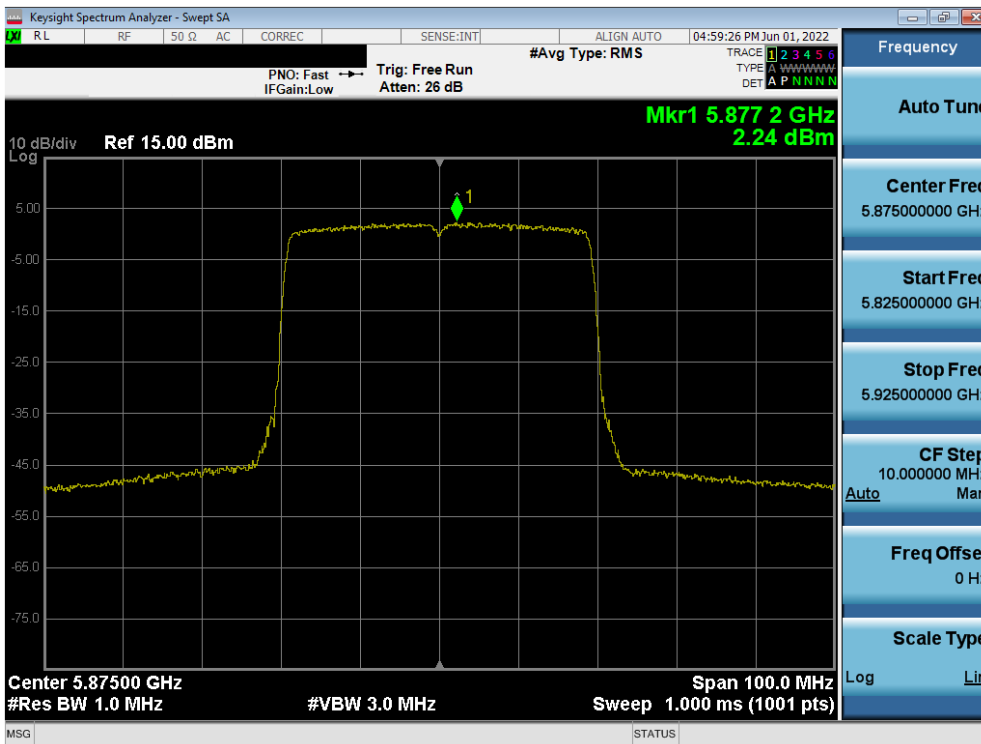


Plot 7-270. Power Spectral Density SISO ANT1 (40MHz BW 802.11ac (UNII Band 4) – Ch. 175)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 172 of 304 |

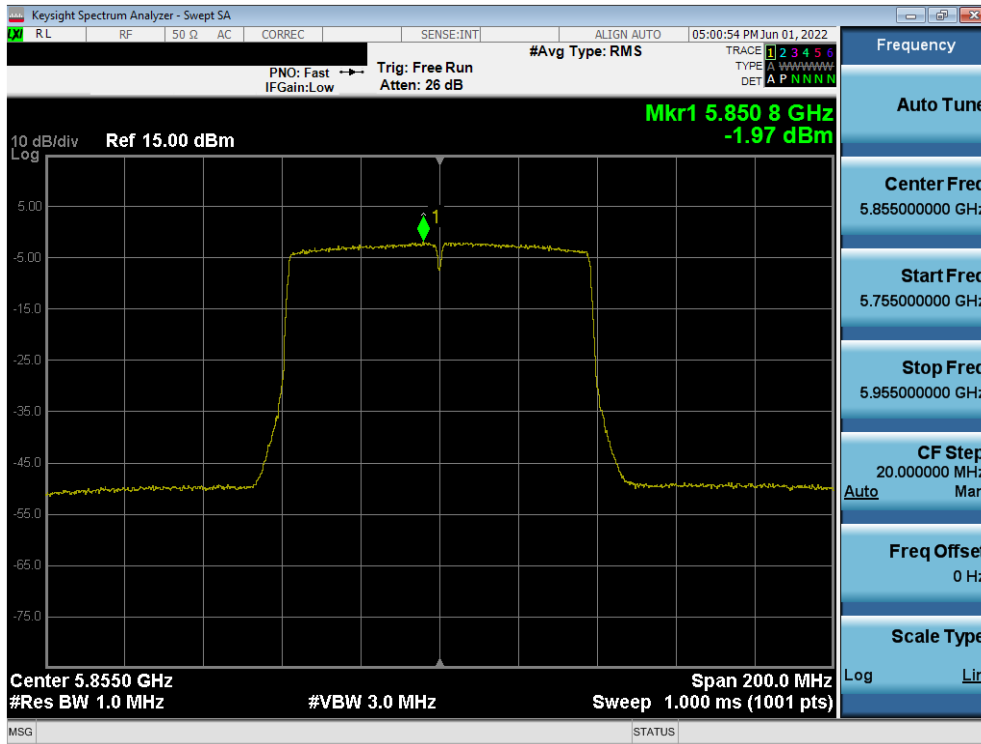


Plot 7-271. Power Spectral Density SISO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

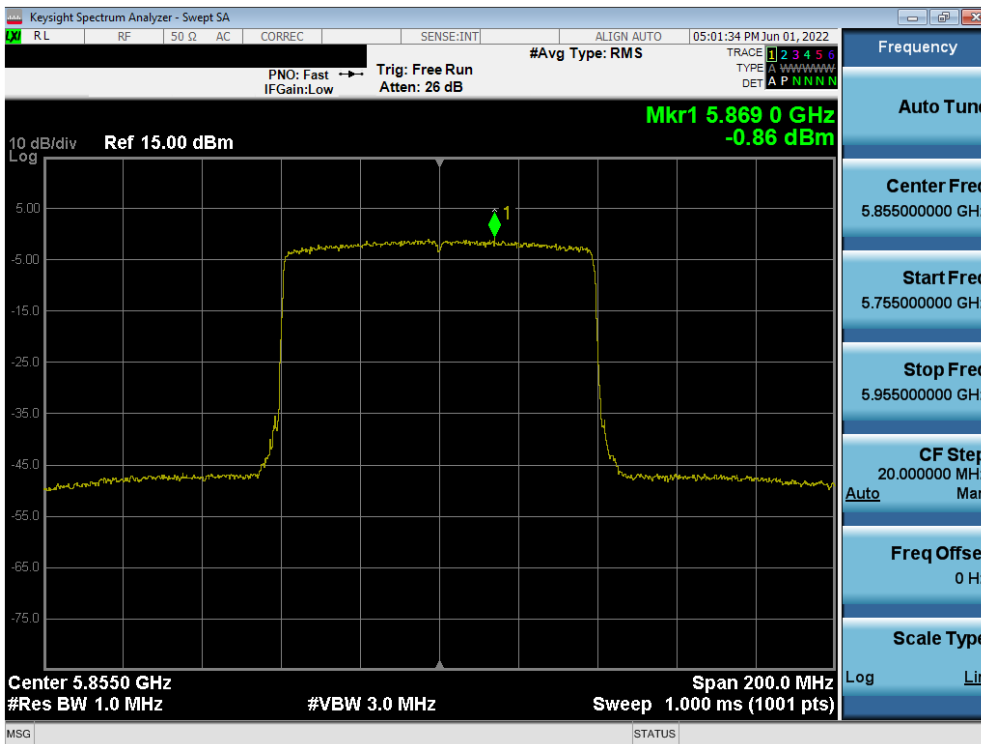


Plot 7-272. Power Spectral Density SISO ANT1 (40MHz BW 802.11ax (UNII Band 4) – Ch. 175)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 173 of 304 |

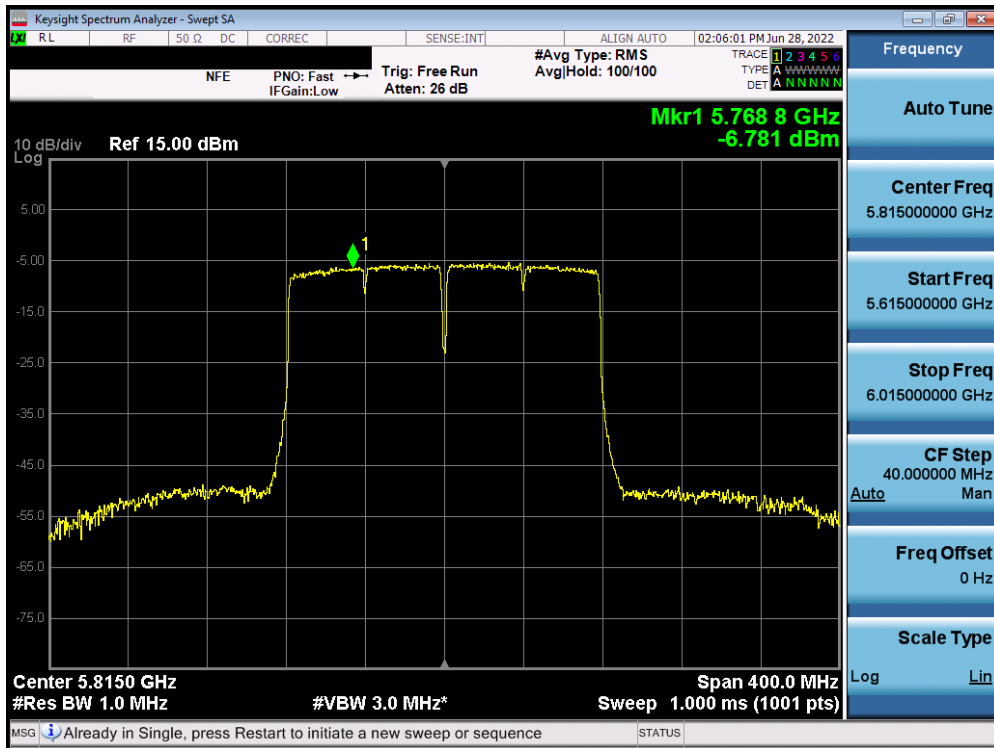


Plot 7-273. Power Spectral Density SISO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

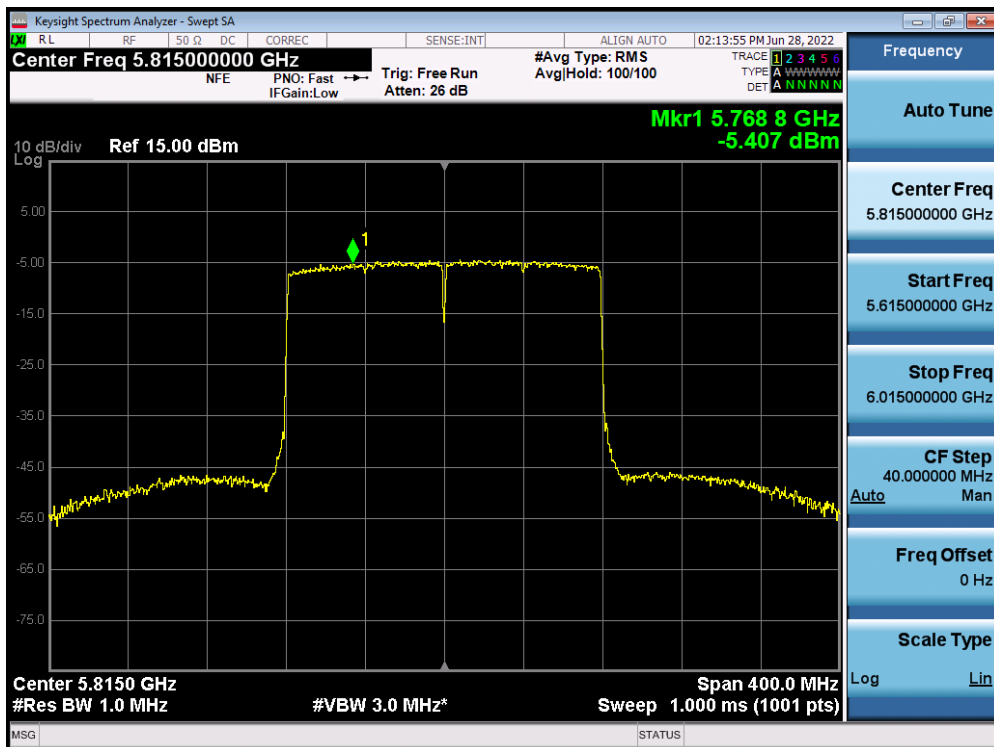


Plot 7-274. Power Spectral Density SISO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 174 of 304 |



Plot 7-275. Power Spectral Density SISO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)



Plot 7-276. Power Spectral Density SISO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

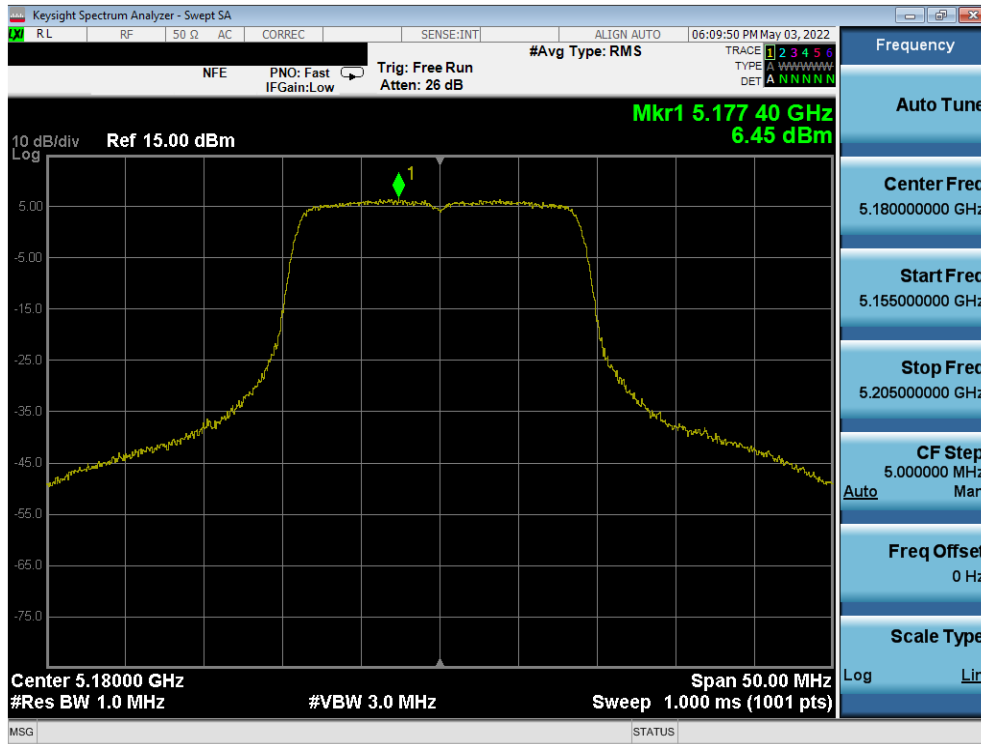
| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 175 of 304 |

Antenna-2 Power Spectral Density Measurements

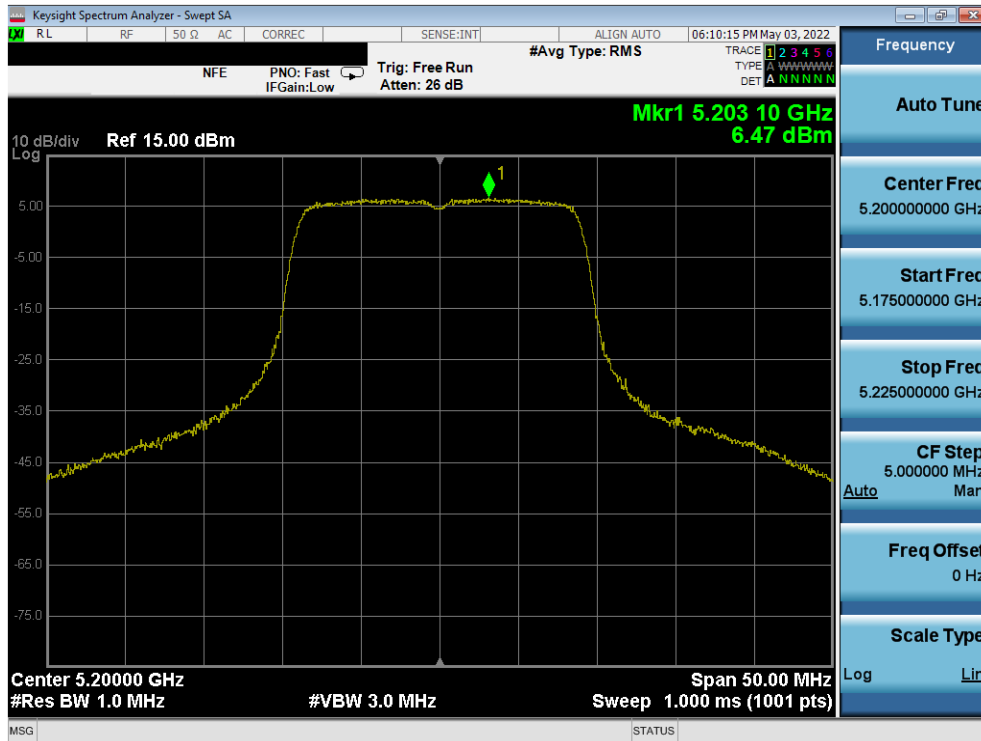
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|-----------|-----------------|-------------|------------------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | a | 6 | 6.45 | 11.0 | -4.55 |
| | 5200 | 40 | a | 6 | 6.47 | 11.0 | -4.53 |
| | 5240 | 48 | a | 6 | 5.89 | 11.0 | -5.11 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.35 | 11.0 | -4.65 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.46 | 11.0 | -4.54 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 6.07 | 11.0 | -4.93 |
| | 5180 | 36 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.02 | 11.0 | -6.98 |
| | 5200 | 40 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.38 | 11.0 | -6.62 |
| | 5240 | 48 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.40 | 11.0 | -7.60 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 0.91 | 11.0 | -10.09 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 0.94 | 11.0 | -10.06 |
| | 5190 | 38 | ax (40MHz) | 13.5/15 (MCS0) | 0.88 | 11.0 | -10.12 |
| | 5230 | 46 | ax (40MHz) | 13.5/15 (MCS0) | 0.47 | 11.0 | -10.53 |
| Band 1/2A | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.81 | 11.0 | -12.81 |
| | 5210 | 42 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.52 | 11.0 | -12.52 |
| Band 2A | 5250 | 50 | ac (160MHz) | 58.5/65 (MCS0) | -3.69 | 11.0 | -14.69 |
| | 5250 | 50 | ax (160MHz) | 58.5/65 (MCS0) | -3.54 | 11.0 | -14.54 |
| | 5260 | 52 | a | 6 | 5.64 | 11.0 | -5.36 |
| | 5280 | 56 | a | 6 | 5.31 | 11.0 | -5.69 |
| | 5320 | 64 | a | 6 | 5.45 | 11.0 | -5.55 |
| | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS0) | 6.45 | 11.0 | -4.55 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS0) | 5.61 | 11.0 | -5.39 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 6.29 | 11.0 | -4.71 |
| | 5260 | 52 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.45 | 11.0 | -7.55 |
| | 5280 | 56 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.41 | 11.0 | -7.59 |
| | 5320 | 64 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.05 | 11.0 | -7.95 |
| | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 0.81 | 11.0 | -10.19 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 0.64 | 11.0 | -10.36 |
| | 5270 | 54 | ax (40MHz) | 13.5/15 (MCS0) | 1.18 | 11.0 | -9.82 |
| | 5310 | 62 | ax (40MHz) | 13.5/15 (MCS0) | 0.74 | 11.0 | -10.26 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.99 | 11.0 | -12.99 |
| | 5290 | 58 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.32 | 11.0 | -13.32 |
| Band 2C | 5500 | 100 | a | 6 | 5.64 | 11.0 | -5.36 |
| | 5600 | 120 | a | 6 | 5.99 | 11.0 | -5.01 |
| | 5700 | 140 | a | 6 | 6.00 | 11.0 | -5.00 |
| | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 5.66 | 11.0 | -5.34 |
| | 5600 | 120 | n (20MHz) | 6.5/7.2 (MCS0) | 6.44 | 11.0 | -4.56 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS0) | 6.05 | 11.0 | -4.95 |
| | 5500 | 100 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.92 | 11.0 | -8.08 |
| | 5600 | 120 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.84 | 11.0 | -7.16 |
| | 5720 | 144 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.91 | 11.0 | -7.09 |
| | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | 1.07 | 11.0 | -9.93 |
| | 5590 | 118 | n (40MHz) | 13.5/15 (MCS0) | 1.05 | 11.0 | -9.95 |
| | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 1.16 | 11.0 | -9.84 |
| | 5510 | 102 | ax (40MHz) | 13.5/15 (MCS0) | 0.28 | 11.0 | -10.72 |
| | 5590 | 118 | ax (40MHz) | 13.5/15 (MCS0) | 0.80 | 11.0 | -10.20 |
| | 5710 | 142 | ax (40MHz) | 13.5/15 (MCS0) | 0.98 | 11.0 | -10.02 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.22 | 11.0 | -13.22 |
| | 5610 | 122 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.83 | 11.0 | -12.83 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.76 | 11.0 | -12.76 |
| | 5530 | 106 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.58 | 11.0 | -13.58 |
| | 5610 | 122 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.09 | 11.0 | -13.09 |
| 5690 | 138 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.86 | 11.0 | -12.86 | |
| 5570 | 114 | ac (160MHz) | 29.3/32.5 (MCS0) | -4.20 | 11.0 | -15.20 | |
| 5570 | 114 | ax (160MHz) | 29.3/32.5 (MCS0) | -3.94 | 11.0 | -14.94 | |

Table 7-26. Conducted Power Spectral Density Measurements ANT2

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 176 of 304 |

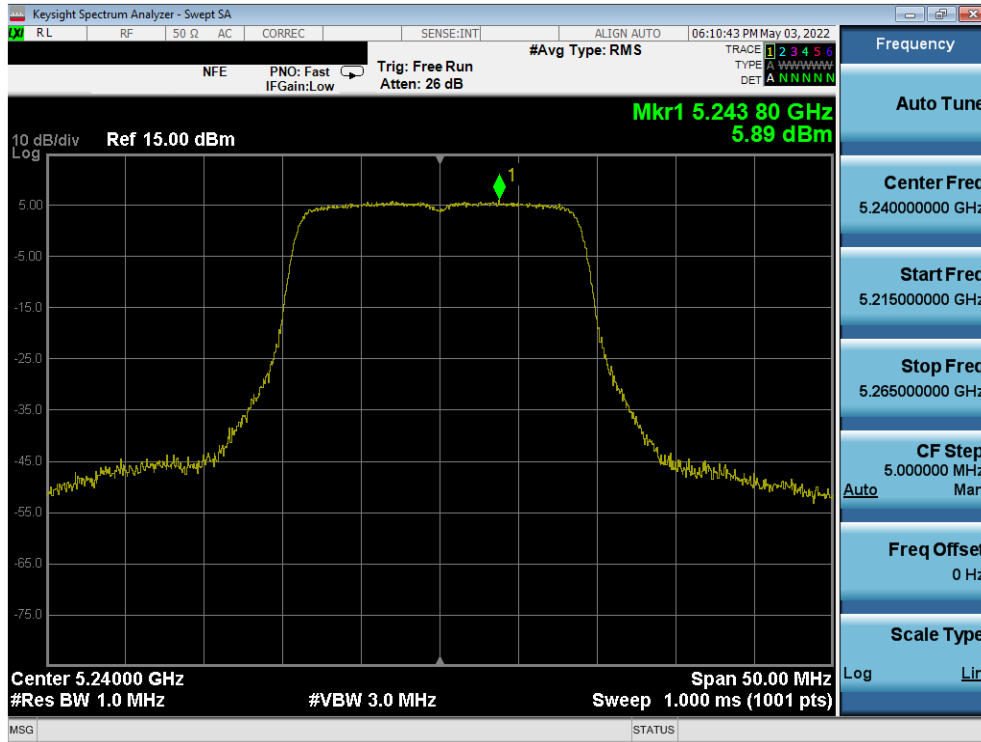


Plot 7-277. Power Spectral Density Plot ANT2 (802.11a (UNII Band 1) – Ch. 36)

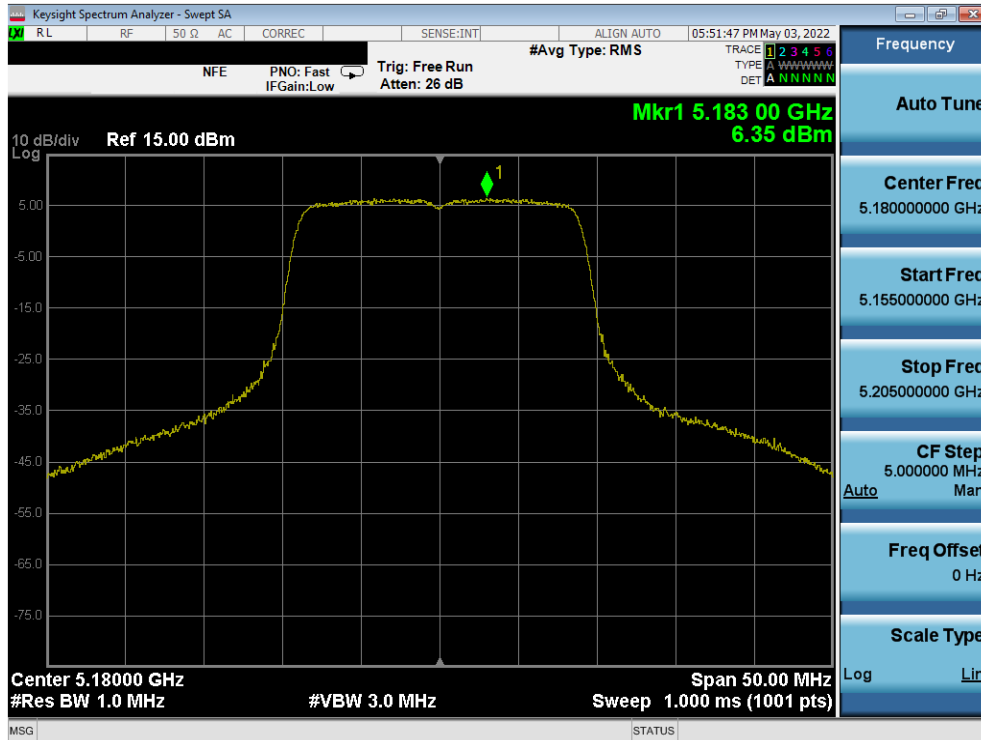


Plot 7-278. Power Spectral Density Plot ANT2 (802.11a (UNII Band 1) – Ch. 40)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 177 of 304 |

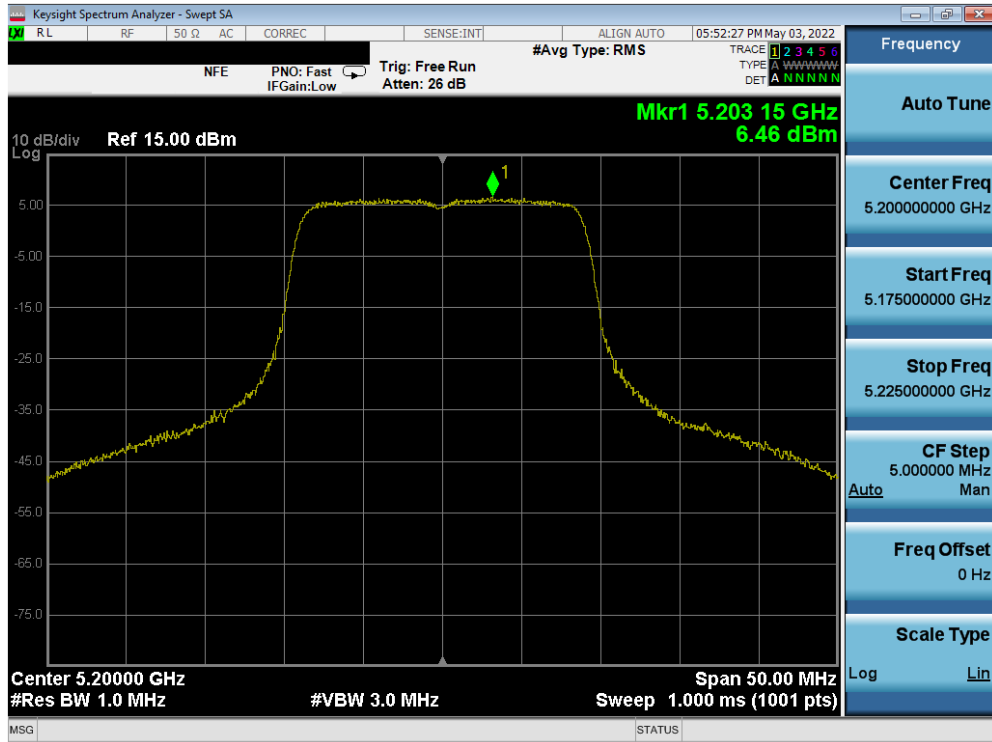


Plot 7-279. Power Spectral Density Plot ANT2 (802.11a (UNII Band 1) – Ch. 48)

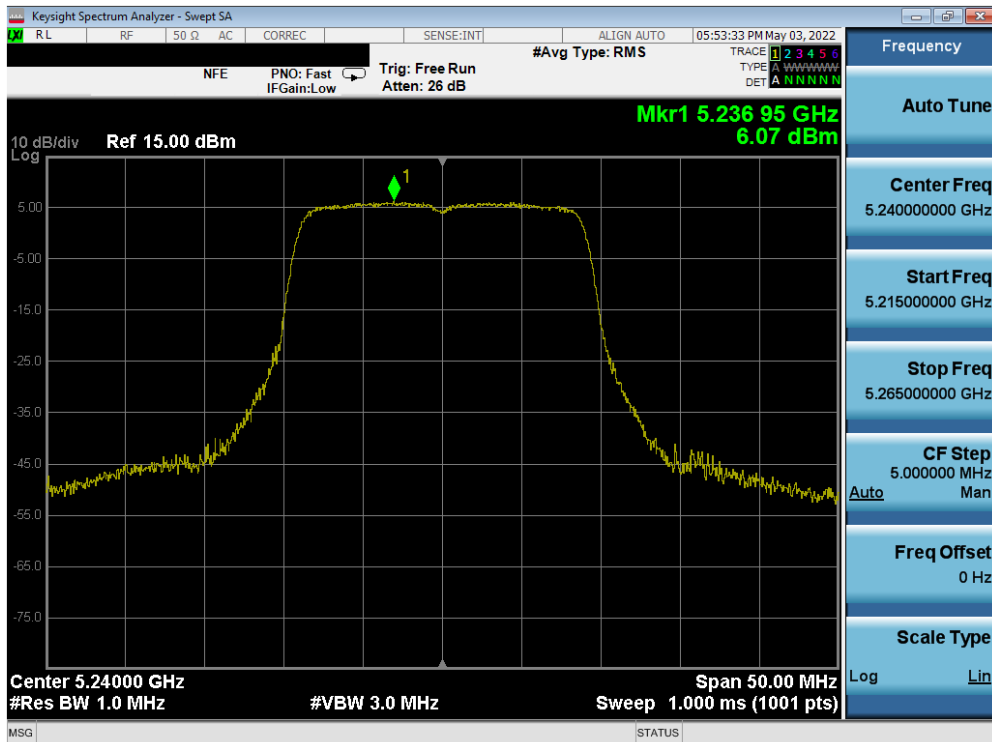


Plot 7-280. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 178 of 304 |

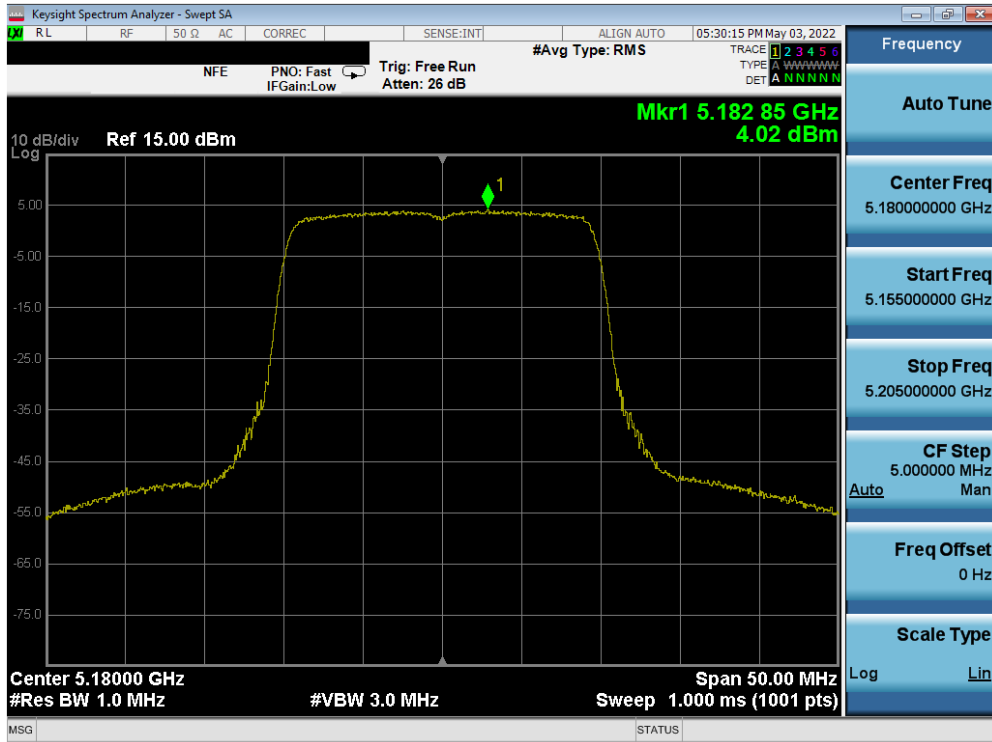


Plot 7-281. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

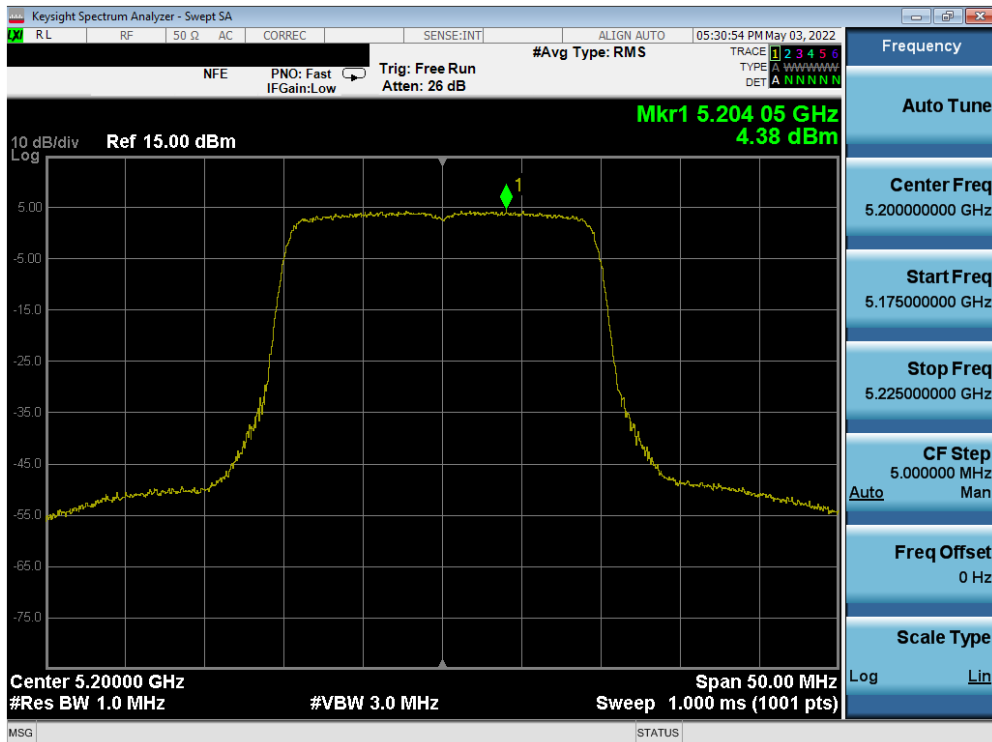


Plot 7-282. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 179 of 304 |

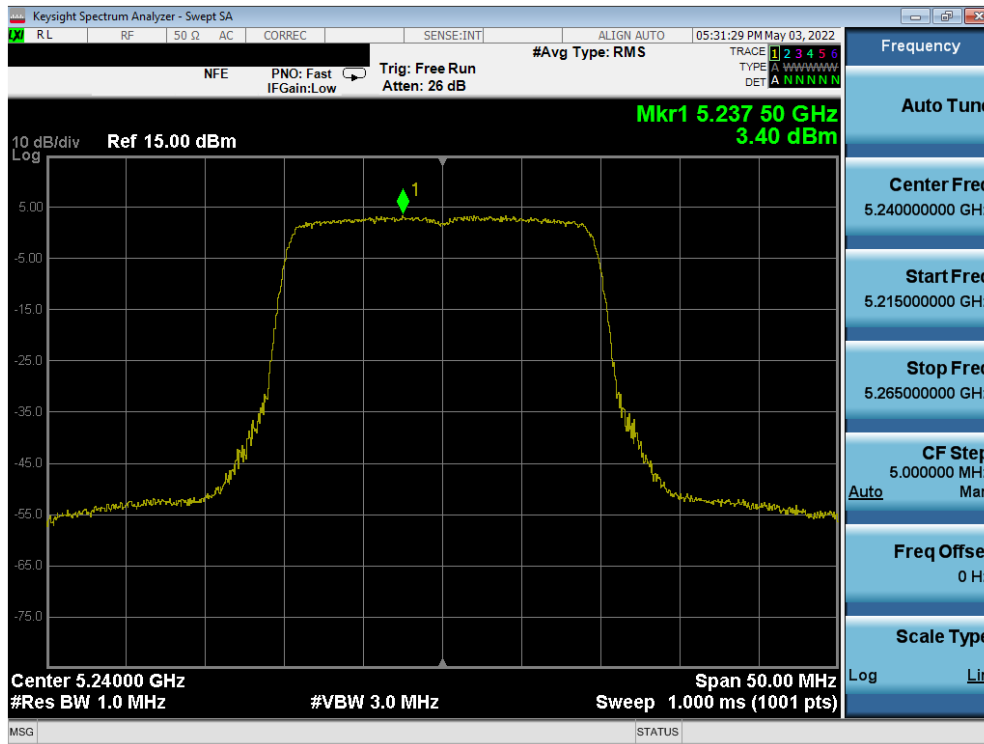


Plot 7-283. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 36)

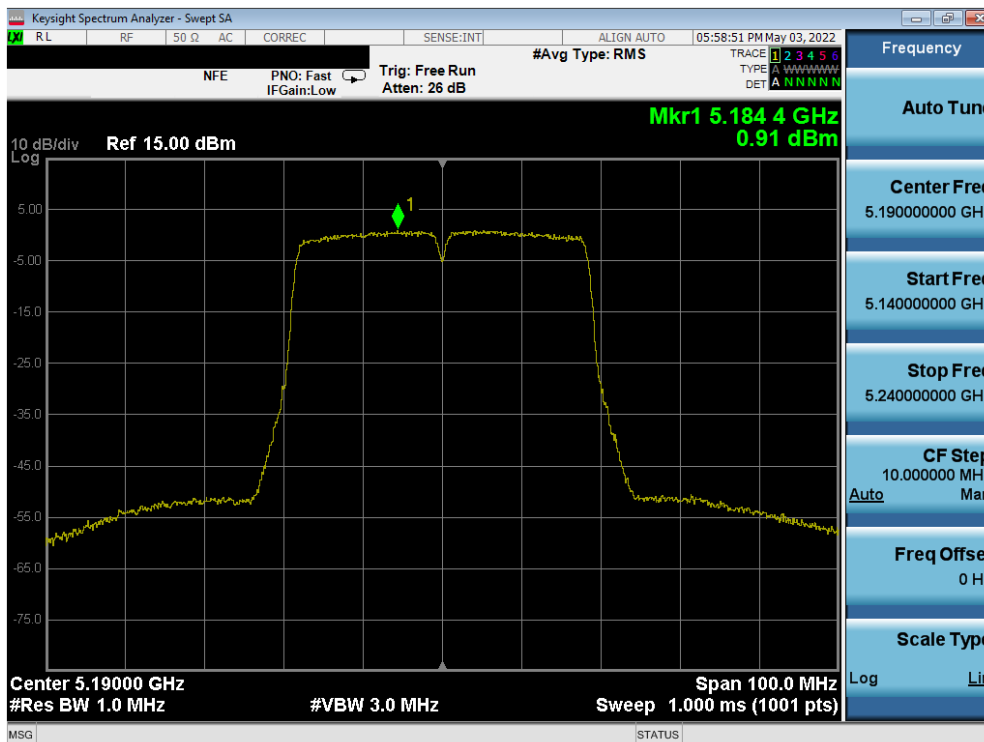


Plot 7-284. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 180 of 304 |

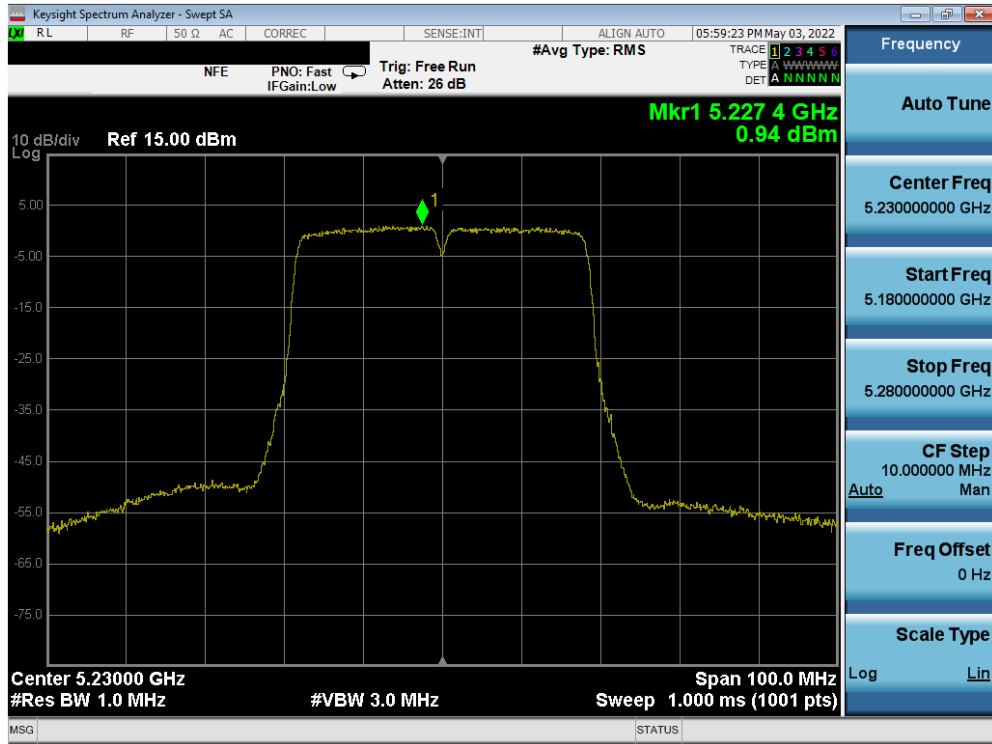


Plot 7-285. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 48)

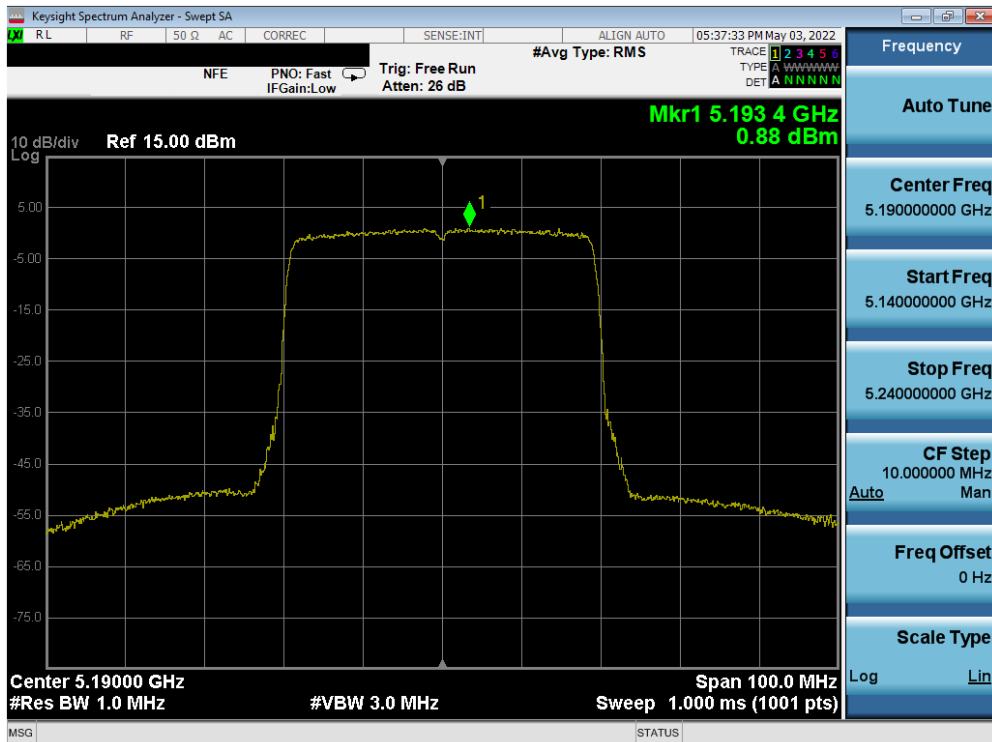


Plot 7-286. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 181 of 304 |

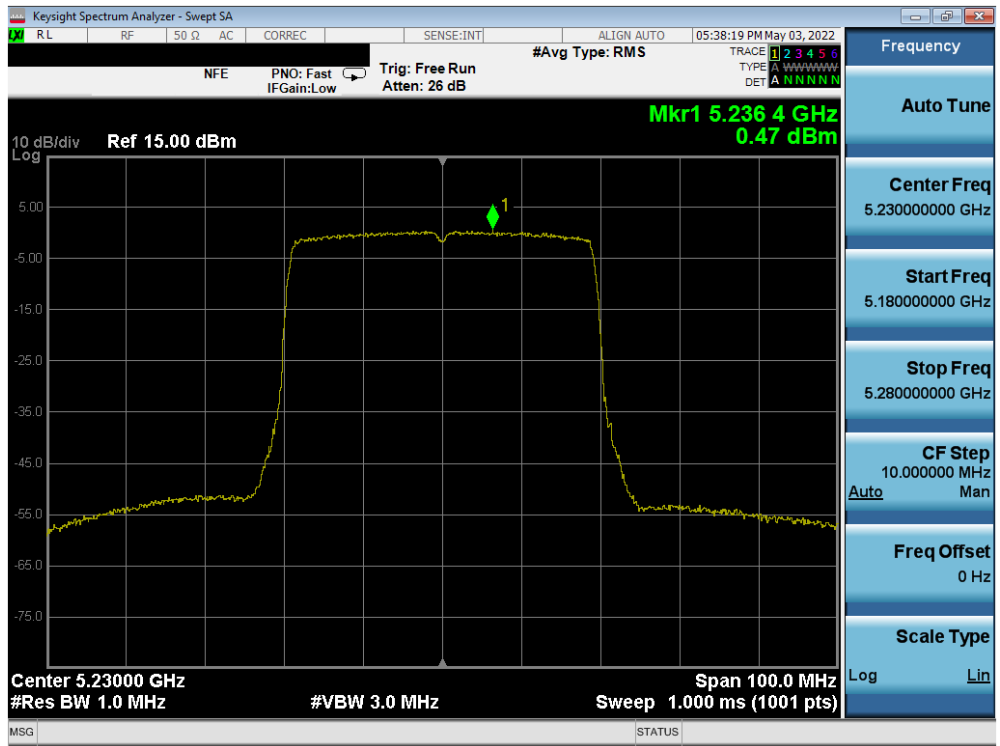


Plot 7-287. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

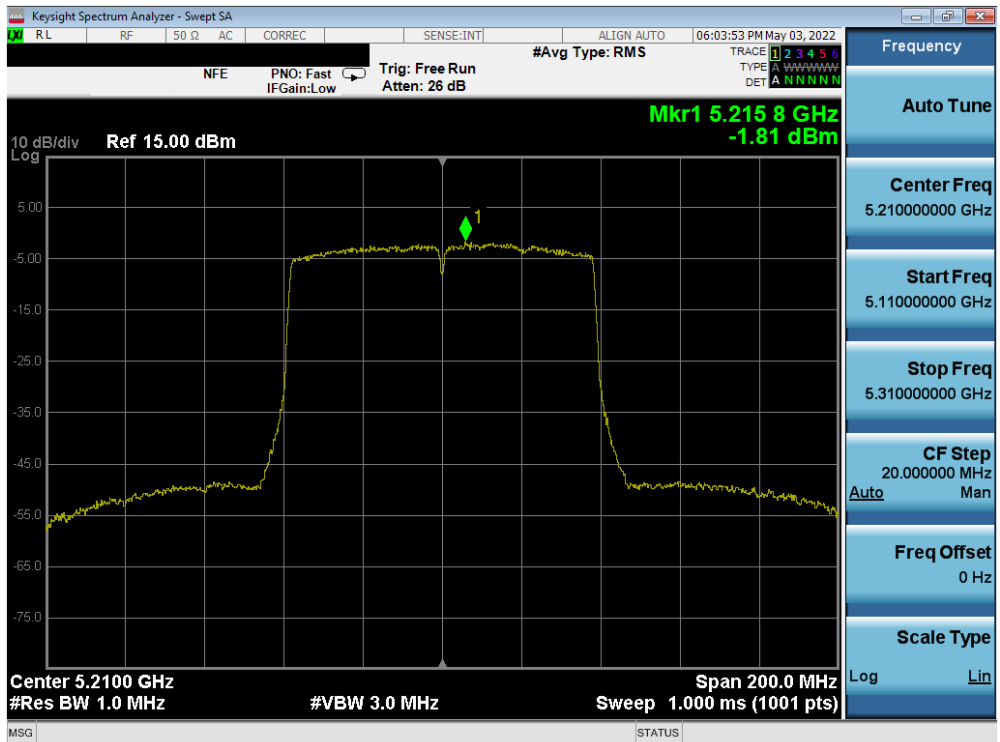


Plot 7-288. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 182 of 304 |

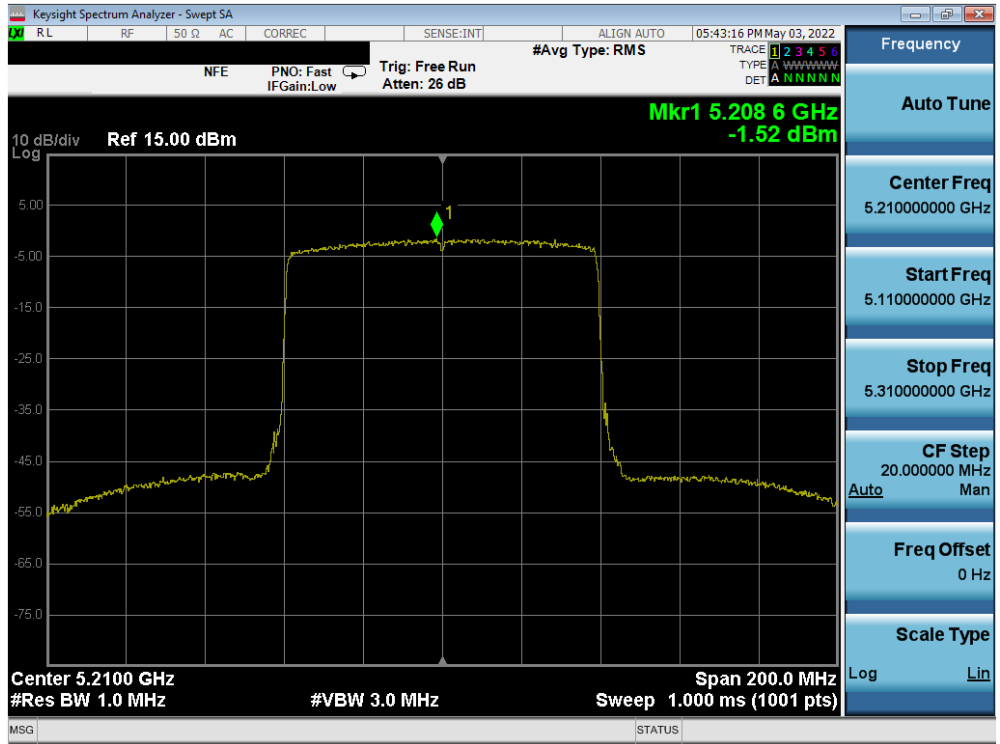


Plot 7-289. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

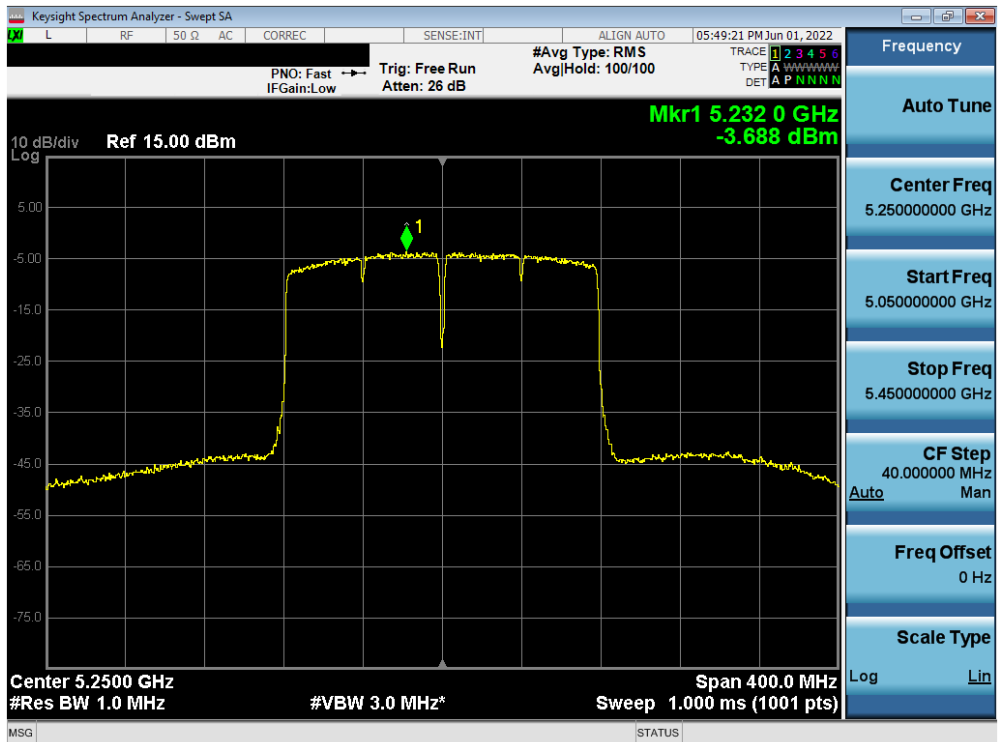


Plot 7-290. Power Spectral Density Plot ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 183 of 304 |

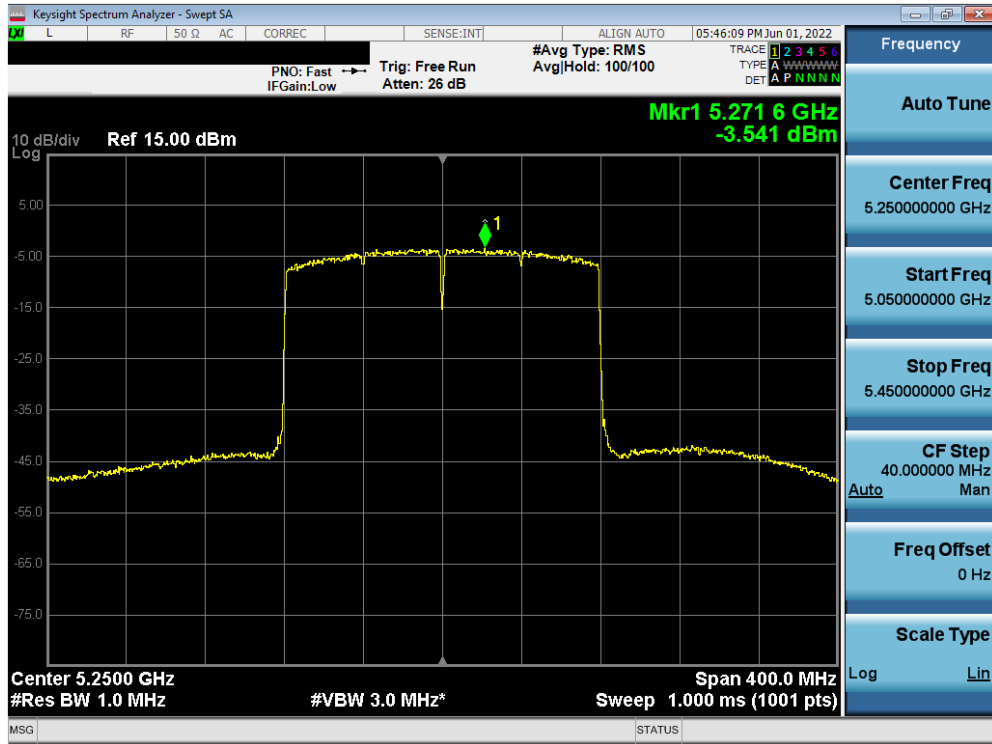


Plot 7-291. Power Spectral Density Plot ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

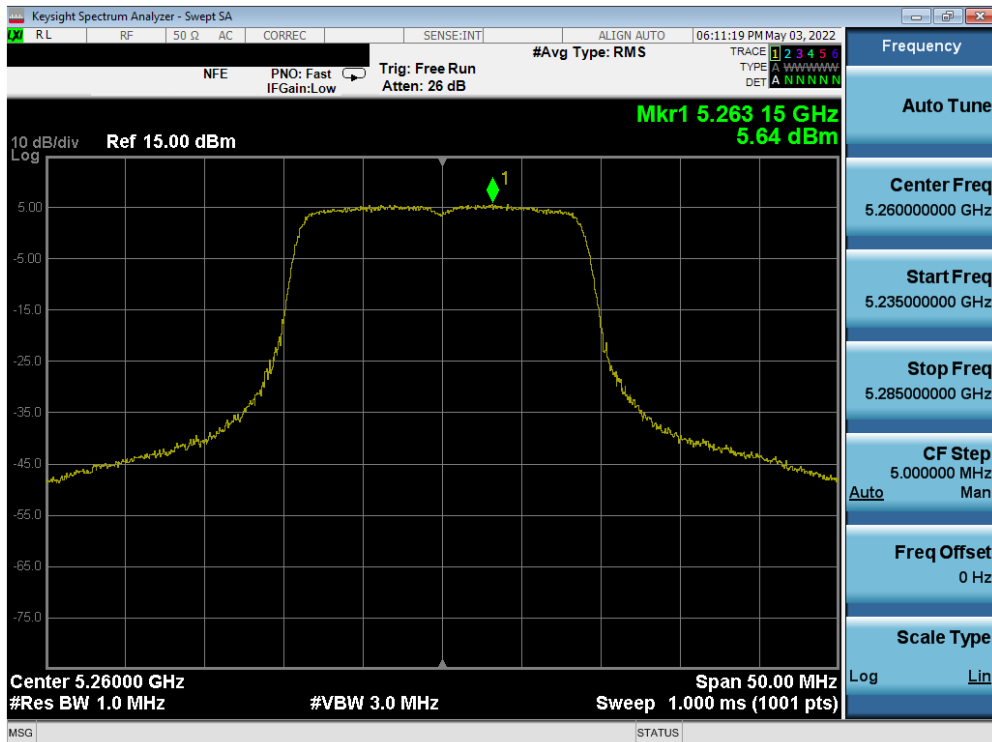


Plot 7-292. Power Spectral Density Plot ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) – Ch. 50)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 184 of 304 |

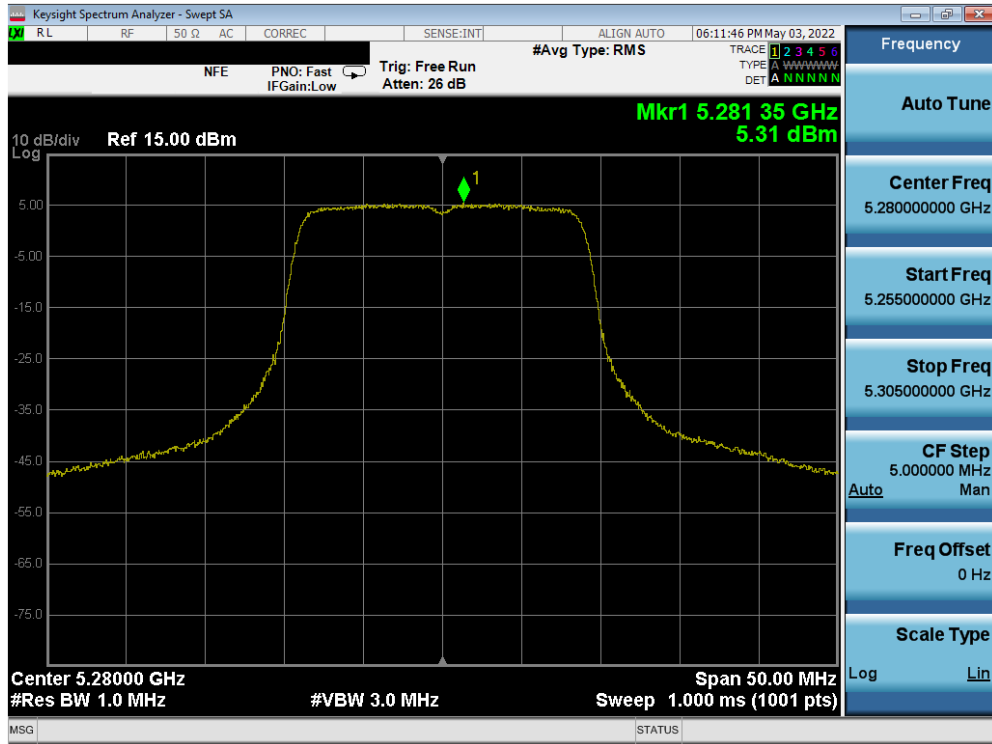


Plot 7-293. Power Spectral Density Plot ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) – Ch. 50)

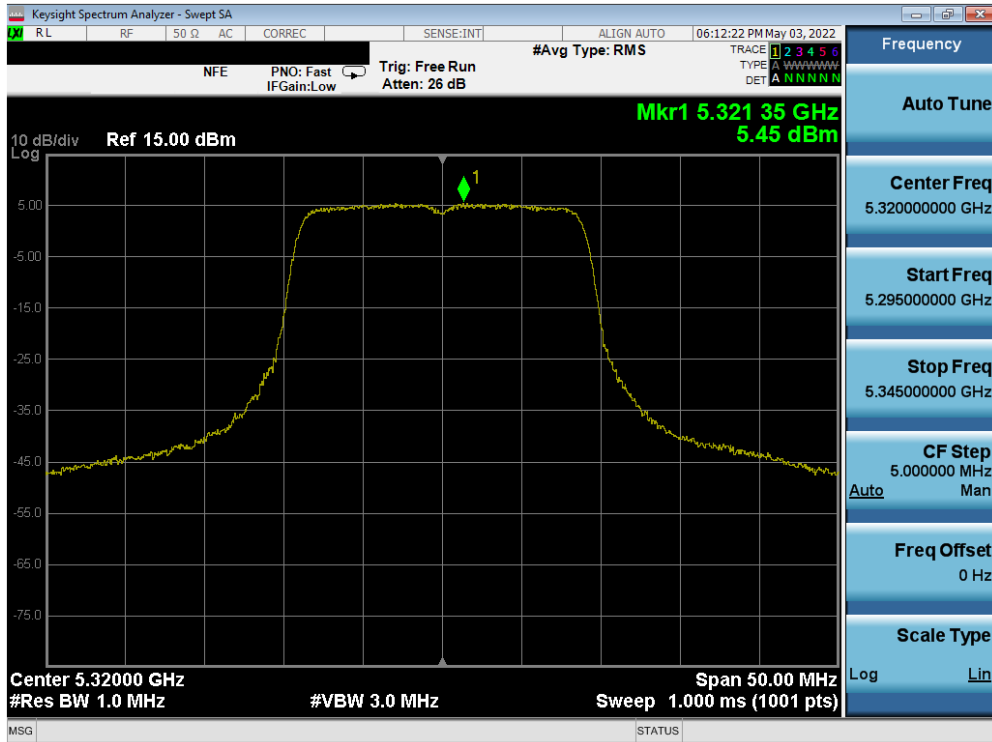


Plot 7-294. Power Spectral Density Plot ANT2 (802.11a (UNII Band 2A) – Ch. 52)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 185 of 304 |

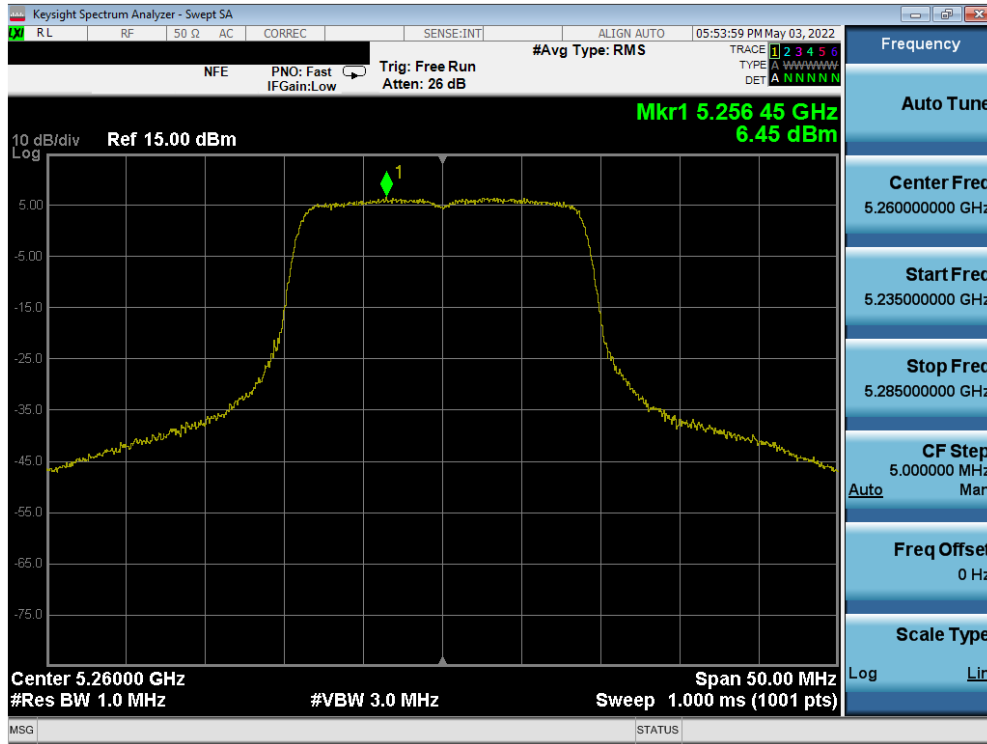


Plot 7-295. Power Spectral Density Plot ANT2 (802.11a (UNII Band 2A) – Ch. 56)

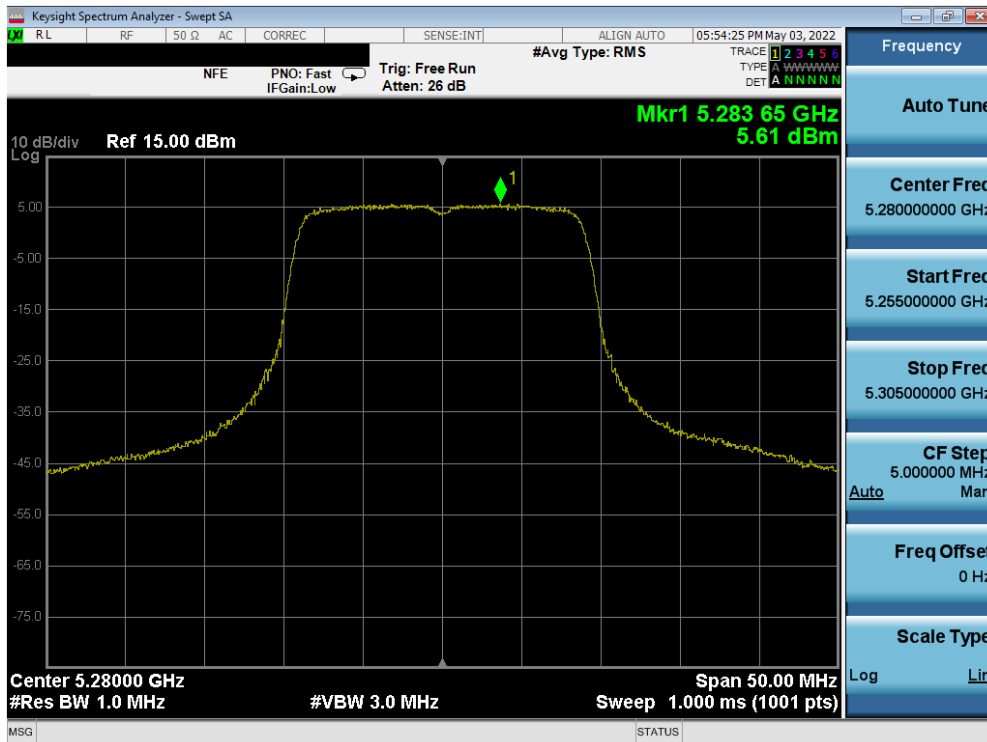


Plot 7-296. Power Spectral Density Plot ANT2 (802.11a (UNII Band 2A) – Ch. 64)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 186 of 304 |

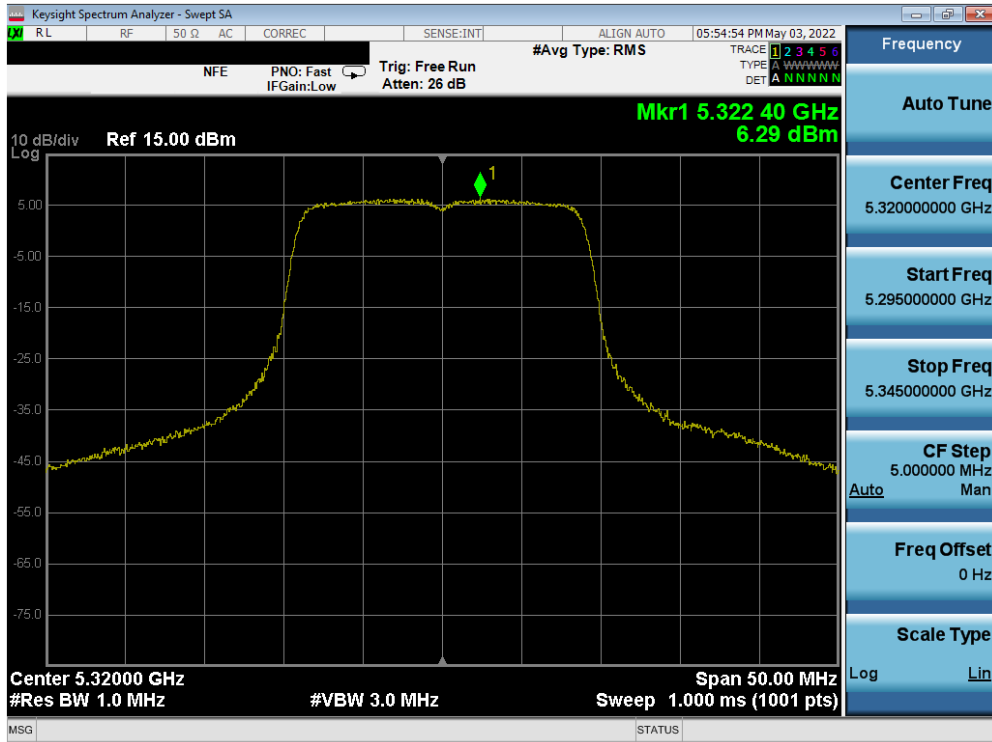


Plot 7-297. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

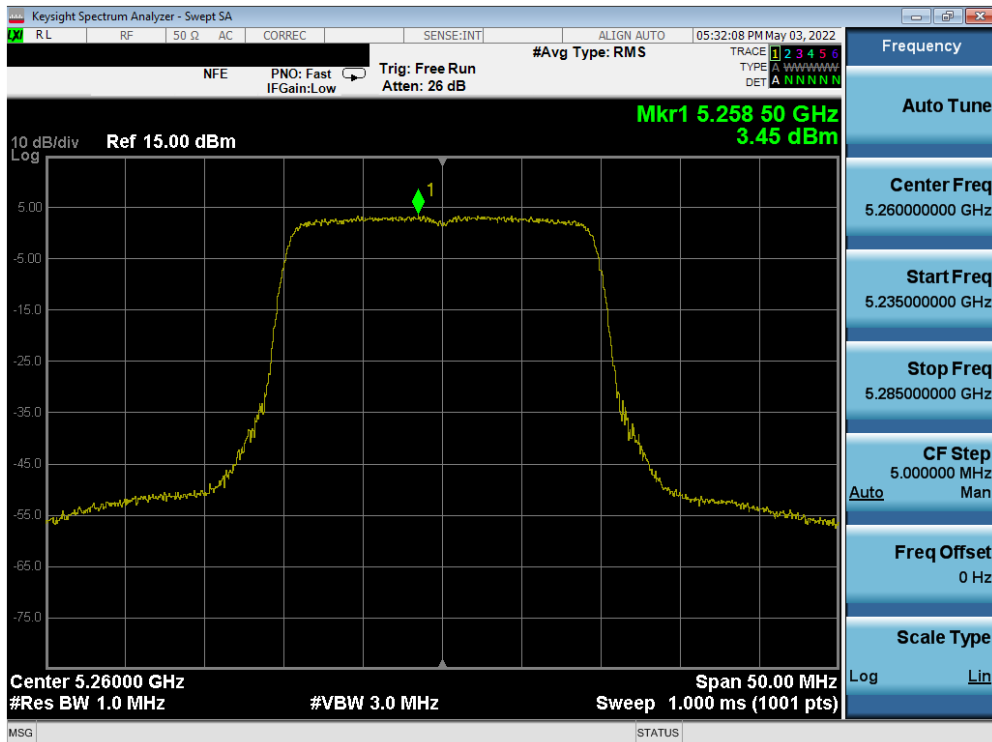


Plot 7-298. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

| FCC ID: A3LSMF721U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|--|-------------------------------------|---------------------------------------|--|-----------------------------------|
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | | Page 187 of 304 |

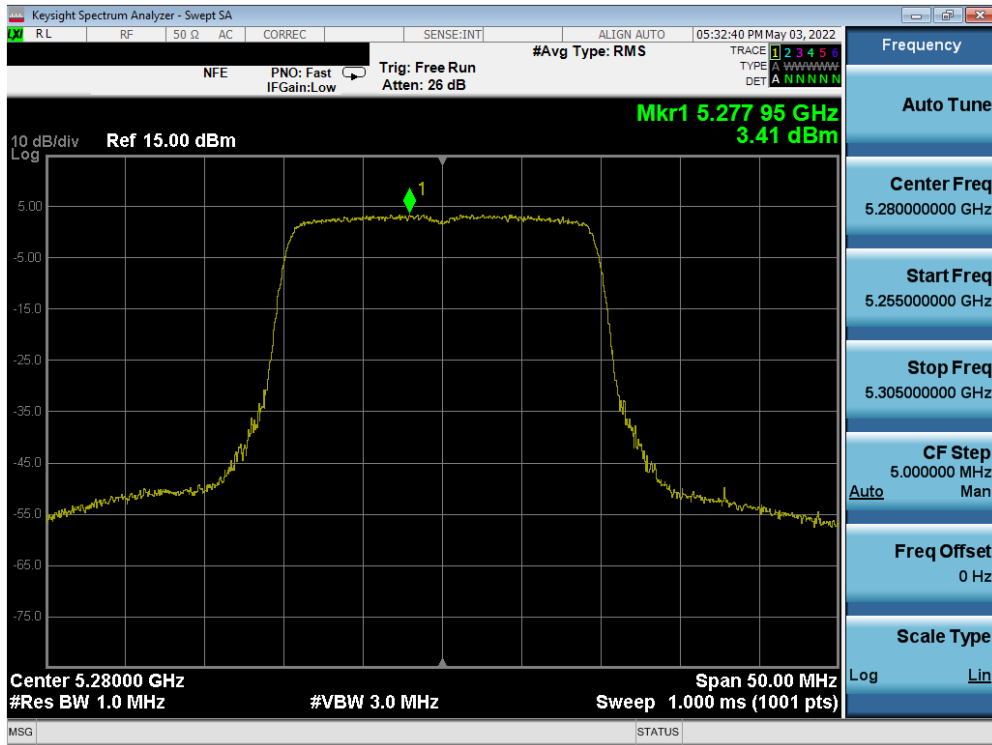


Plot 7-299. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

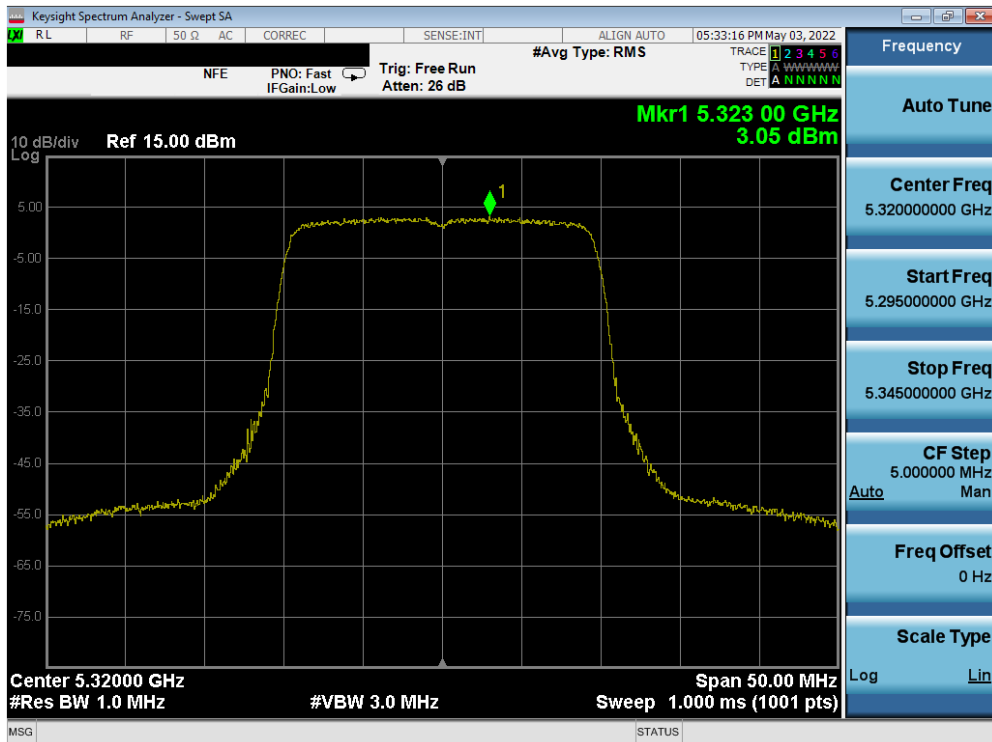


Plot 7-300. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 188 of 304 |

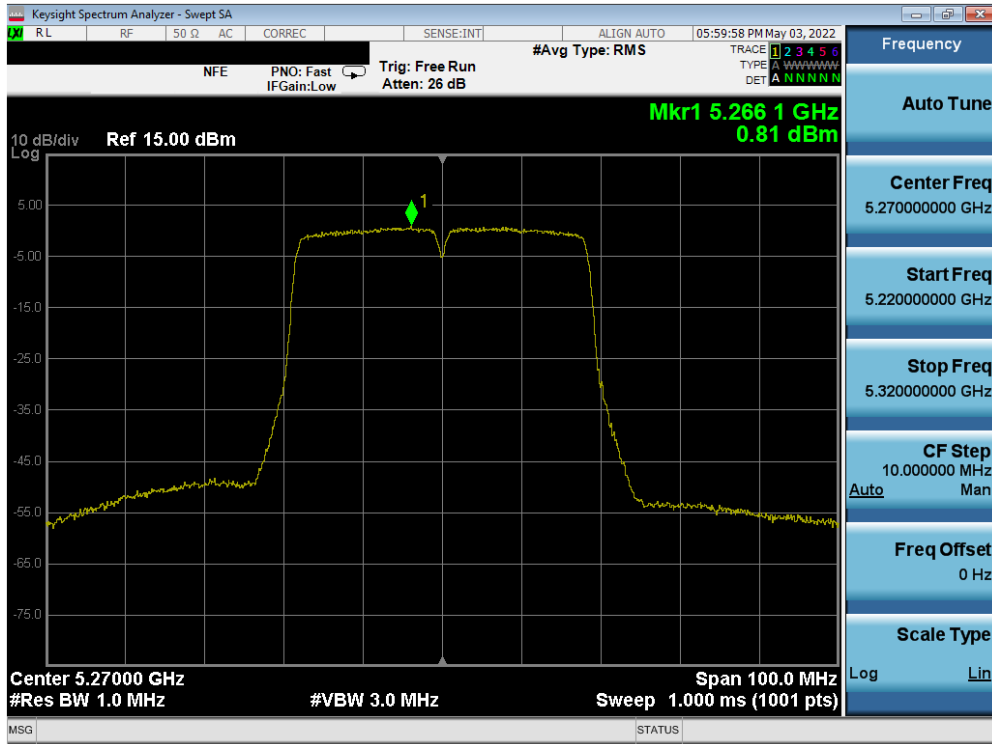


Plot 7-301. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 56)

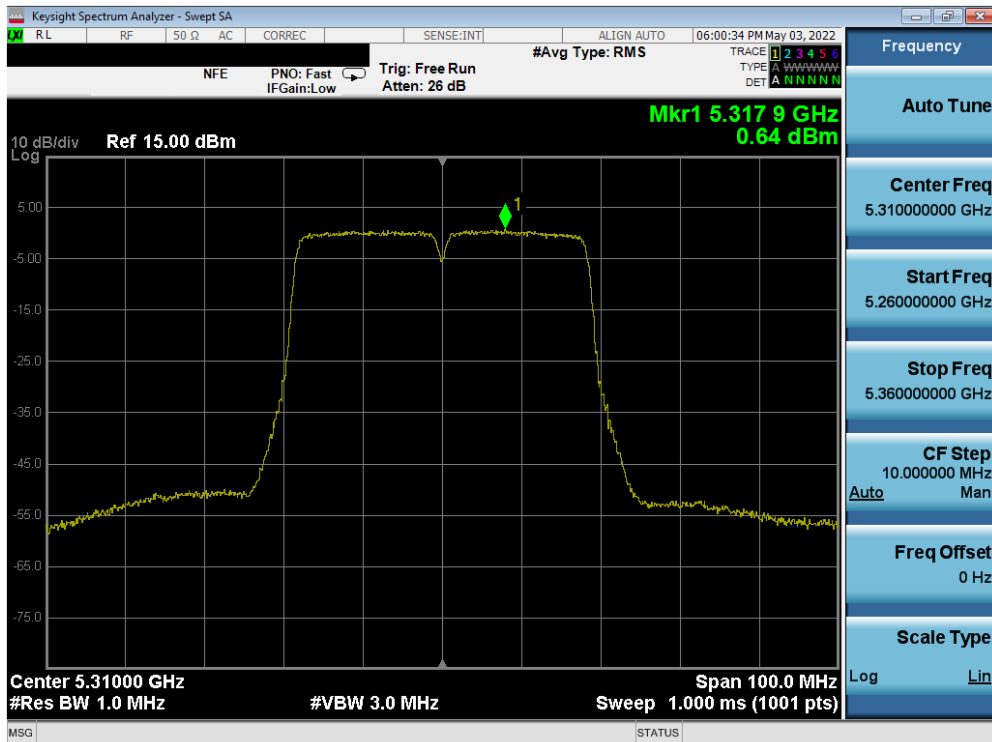


Plot 7-302. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 64)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 189 of 304 |

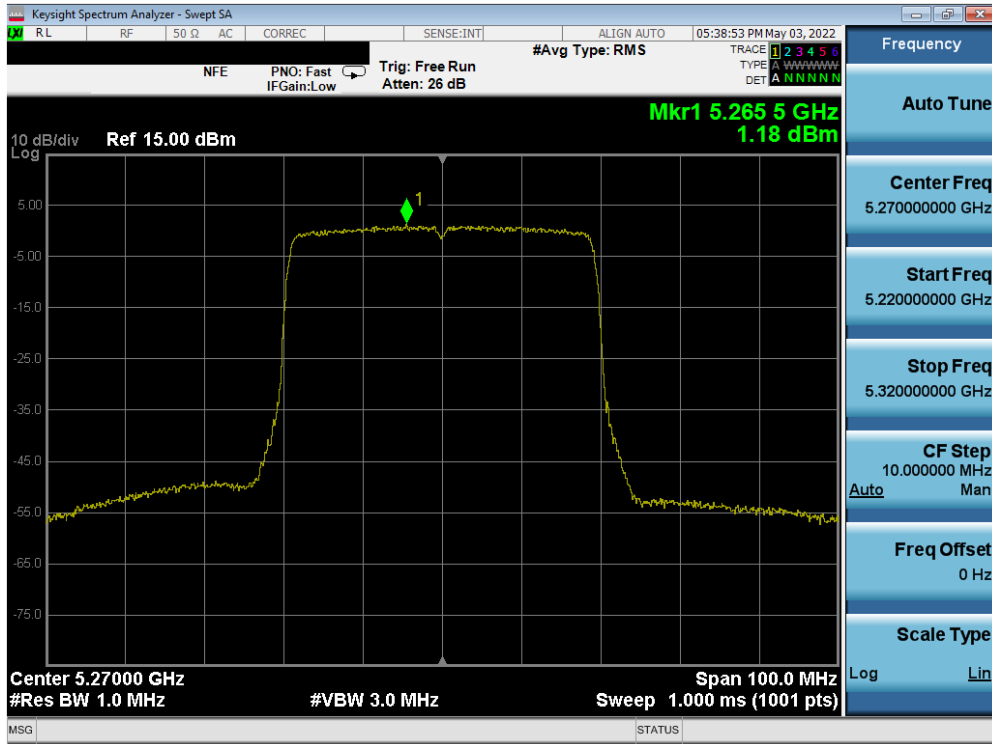


Plot 7-303. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

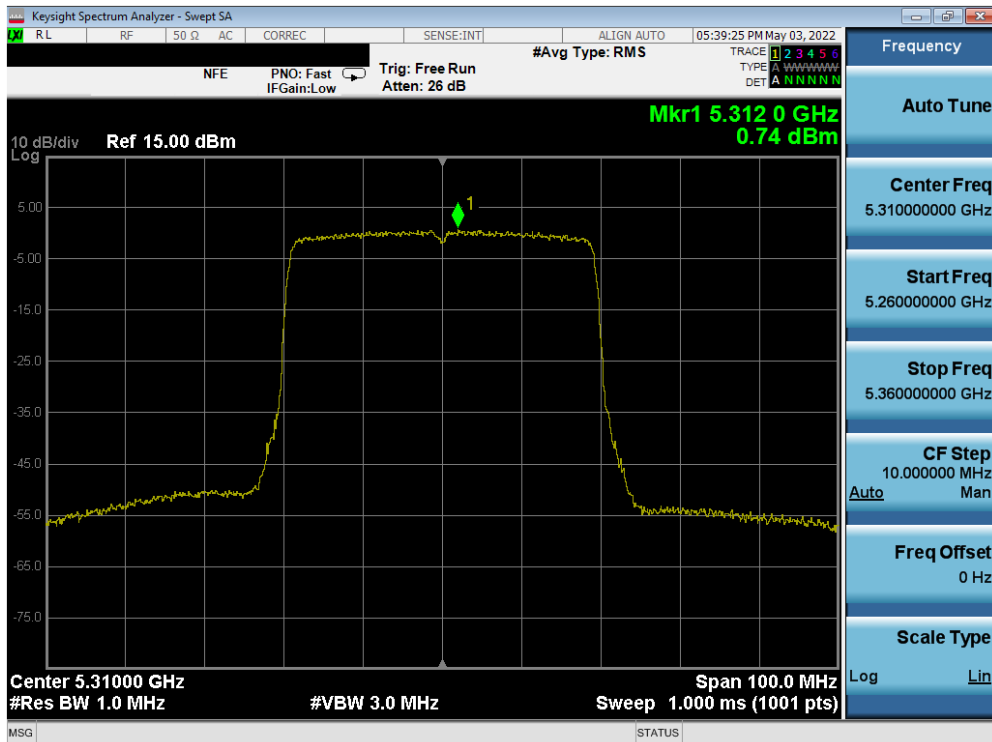


Plot 7-304. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 190 of 304 |

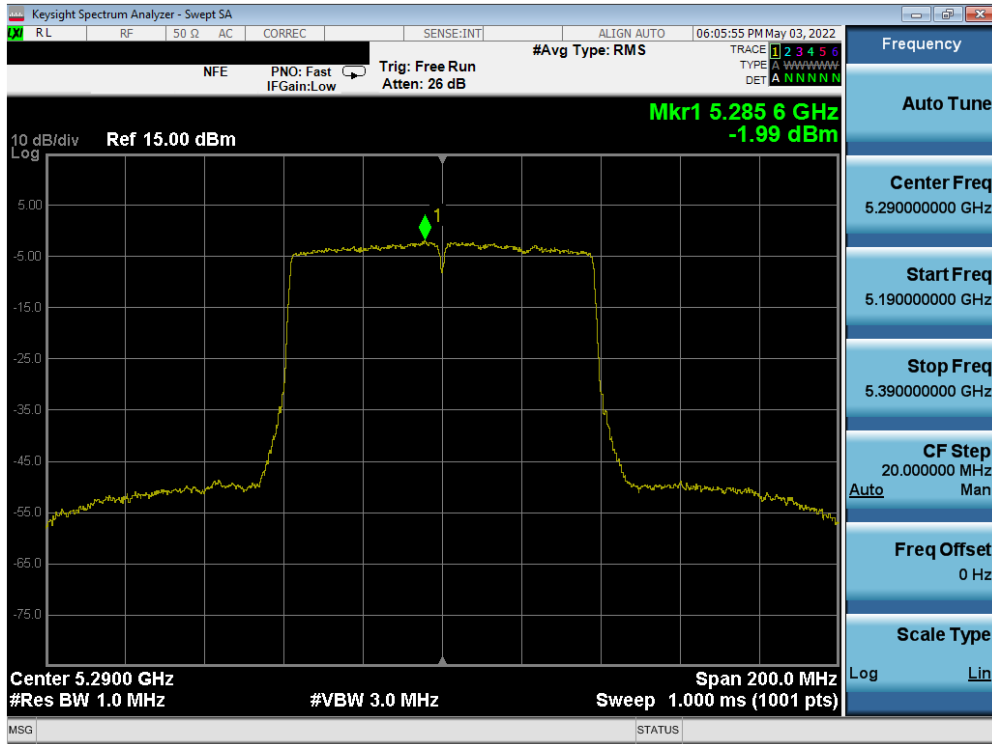


Plot 7-305. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

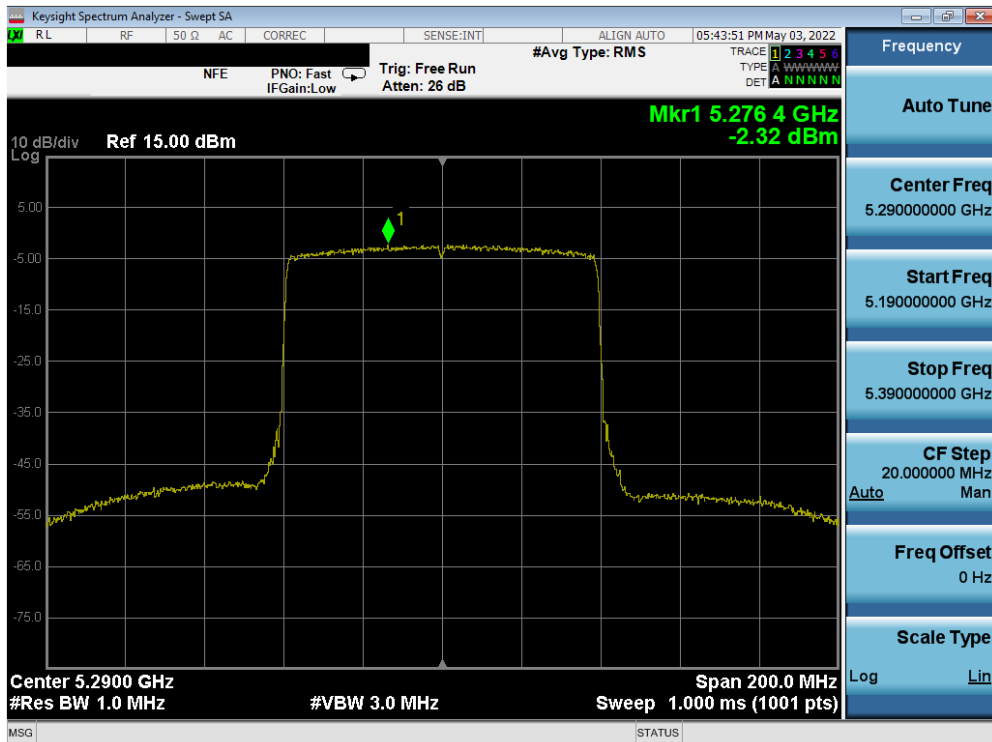


Plot 7-306. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 191 of 304 |

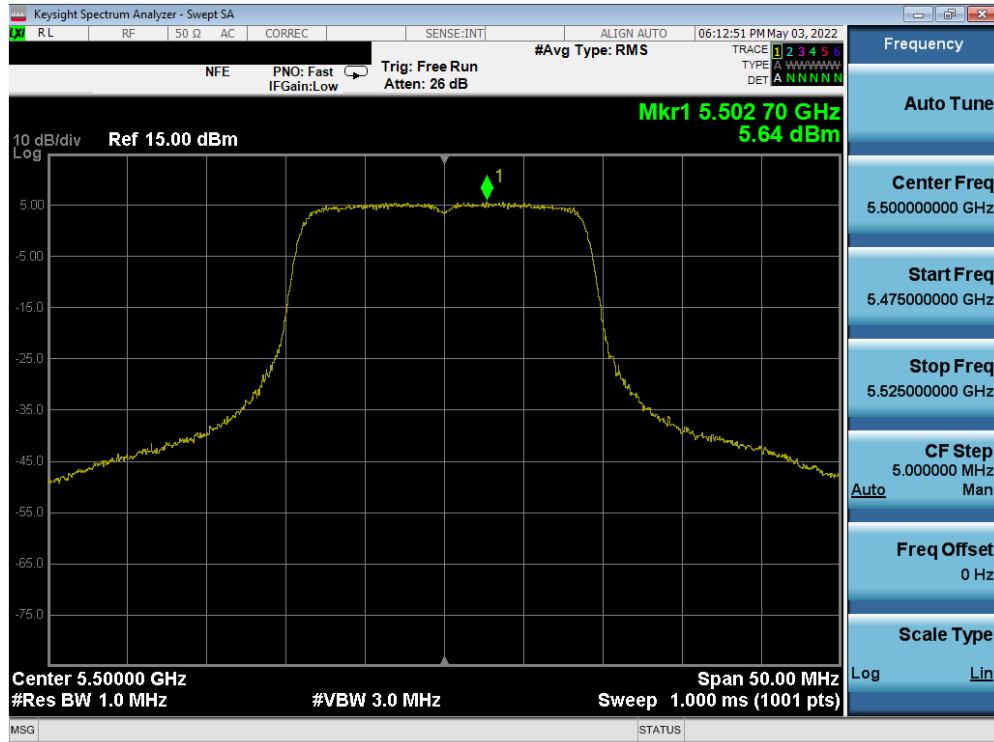


Plot 7-307. Power Spectral Density Plot ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

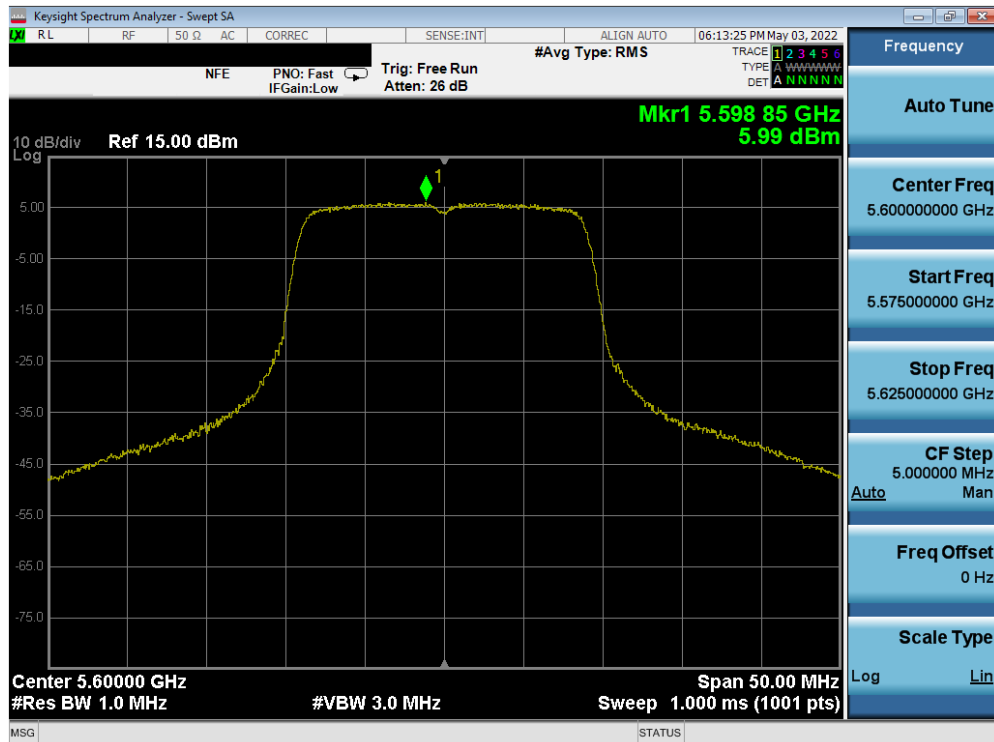


Plot 7-308. Power Spectral Density Plot ANT2 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 192 of 304 |

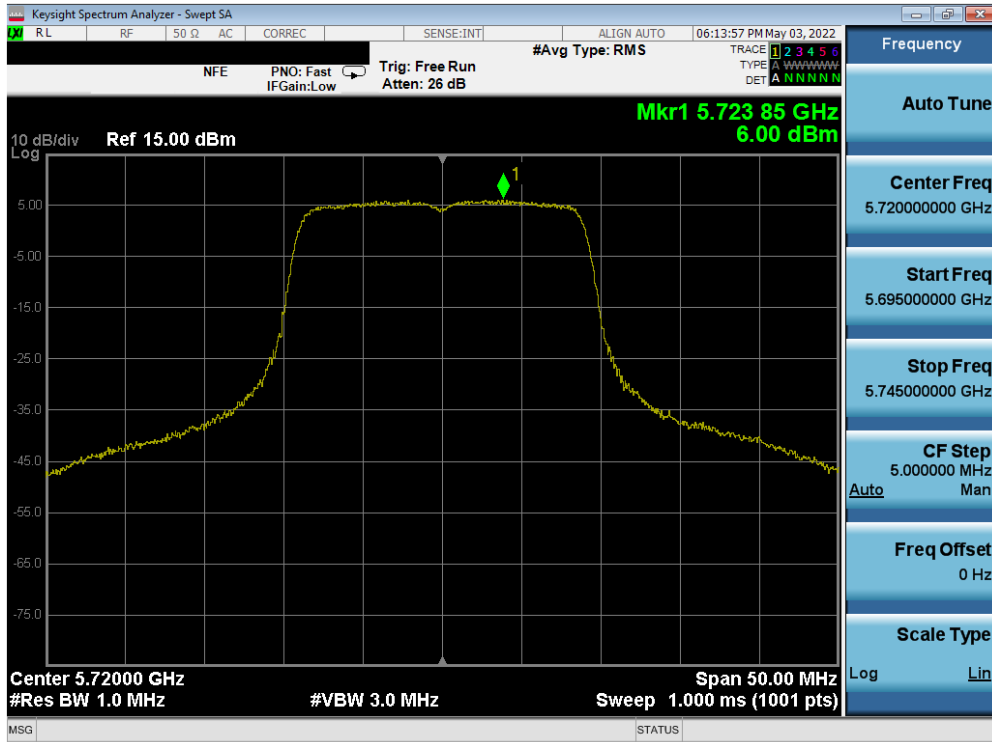


Plot 7-309. Power Spectral Density Plot ANT2 (802.11a (UNII Band 2C) – Ch. 100)

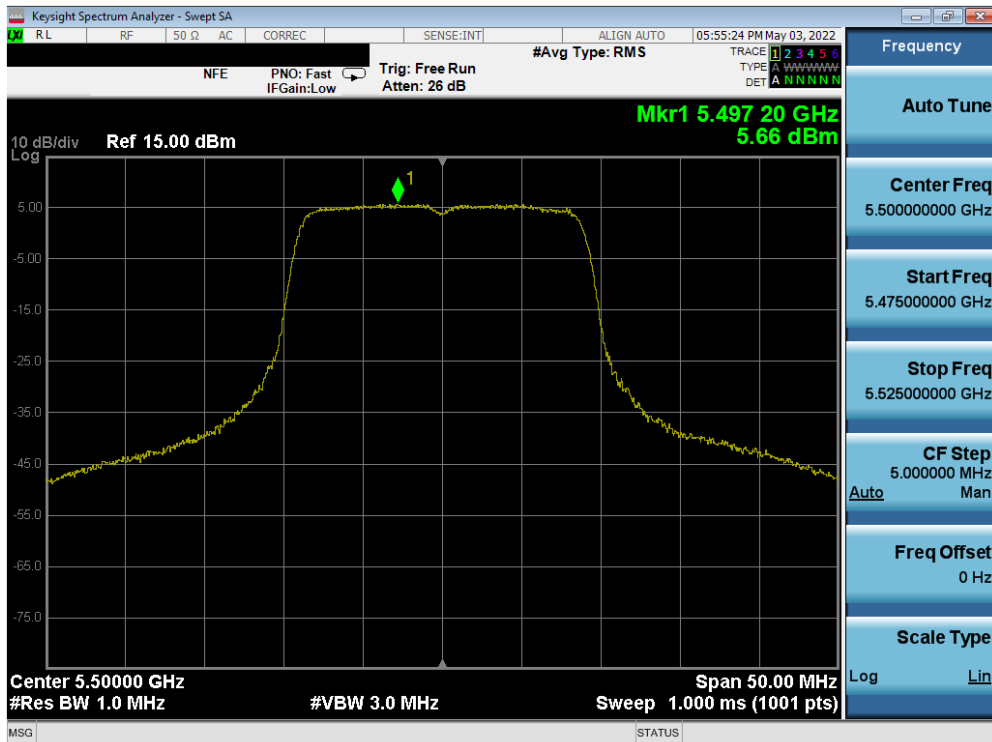


Plot 7-310. Power Spectral Density Plot ANT2 (802.11a (UNII Band 2C) – Ch. 116)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 193 of 304 |

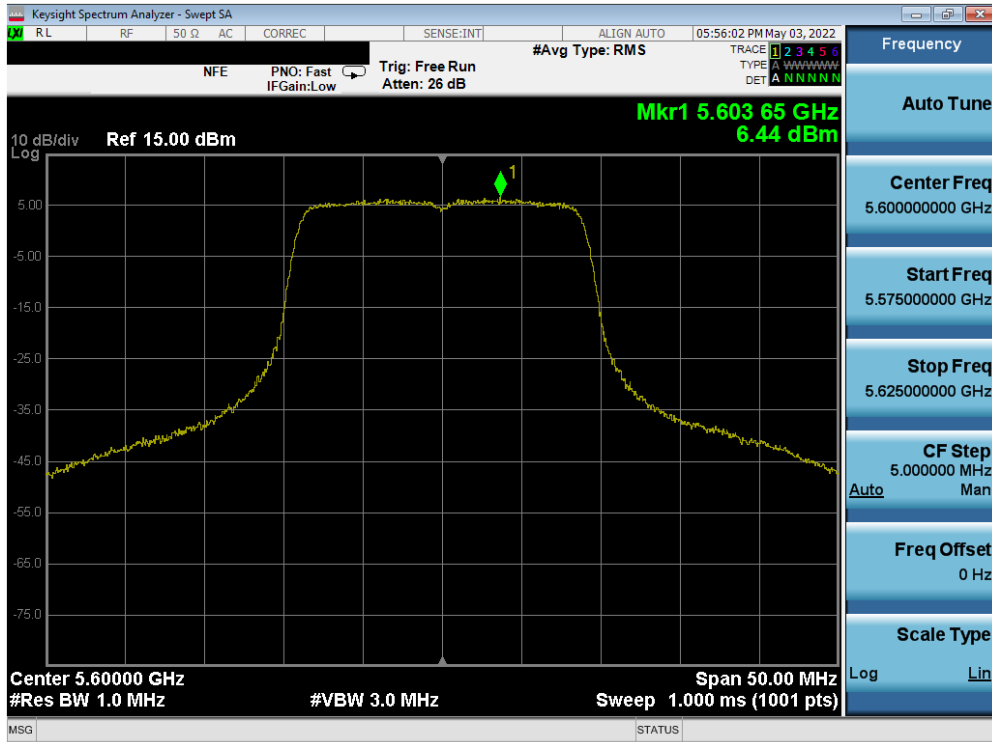


Plot 7-311. Power Spectral Density Plot ANT2 (802.11a (UNII Band 2C) – Ch. 140)

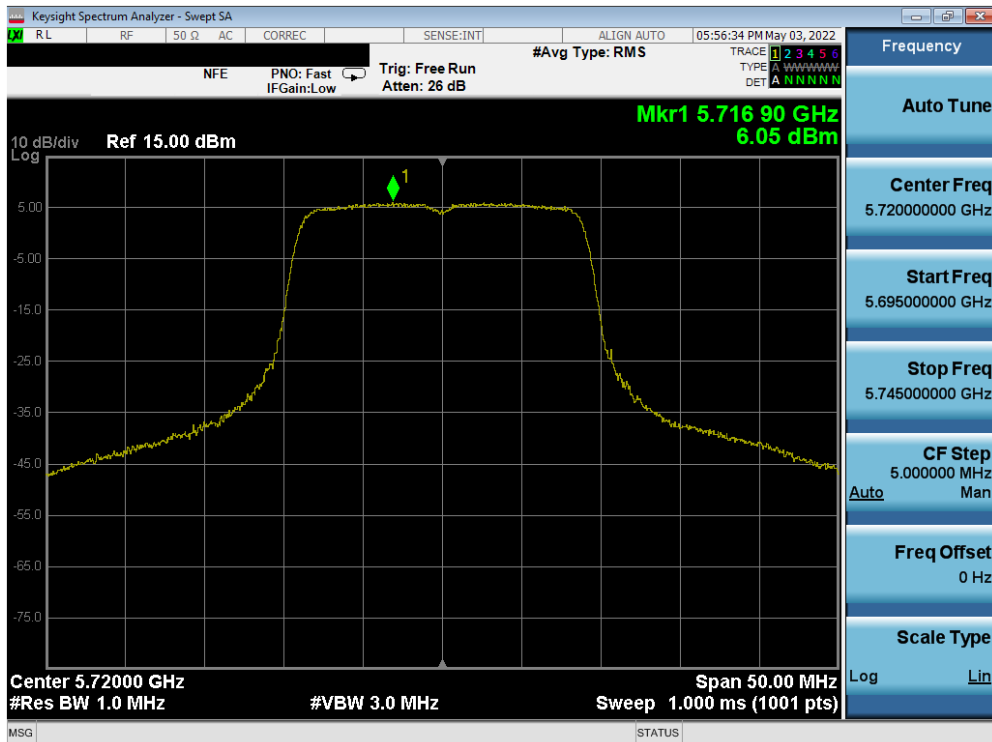


Plot 7-312. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 194 of 304 |

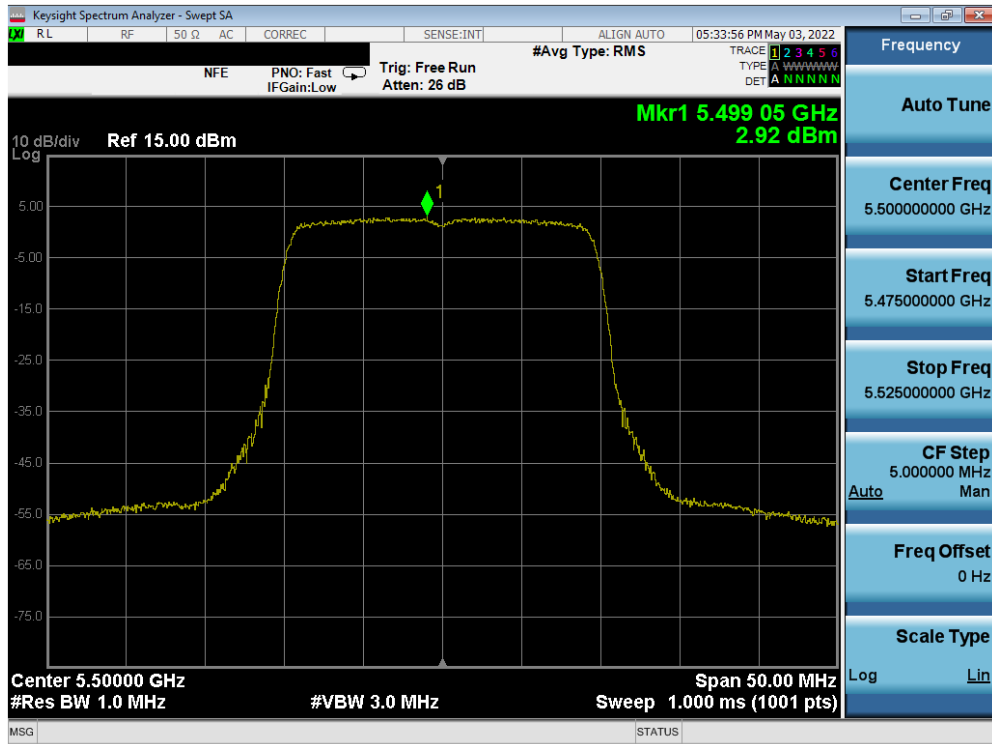


Plot 7-313. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

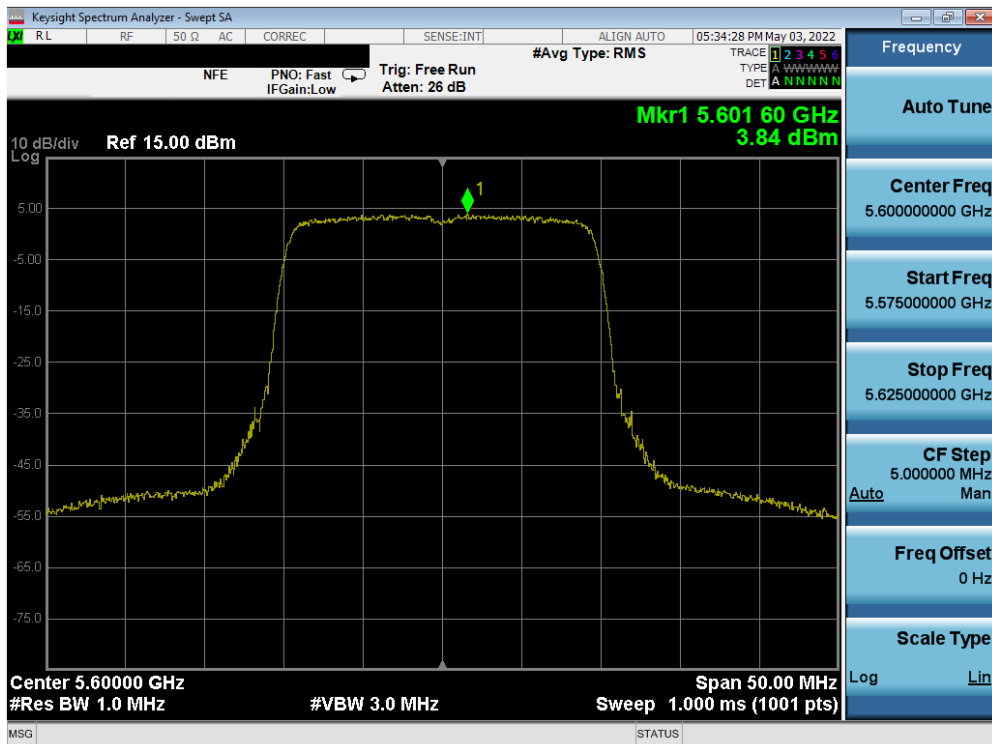


Plot 7-314. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 195 of 304 |

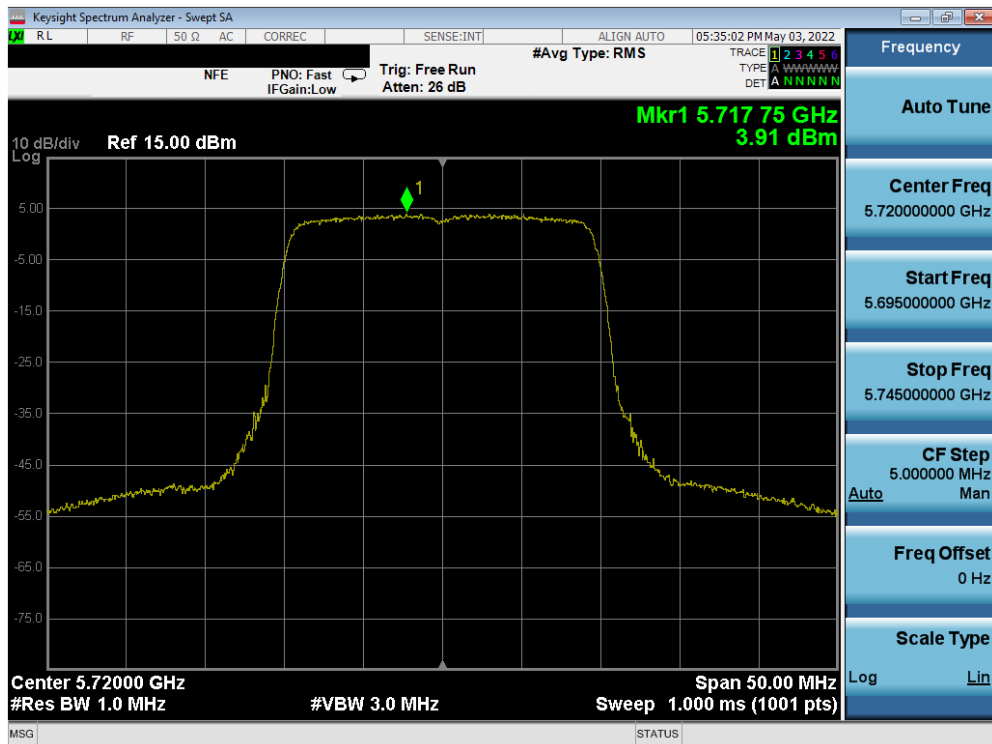


Plot 7-315. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

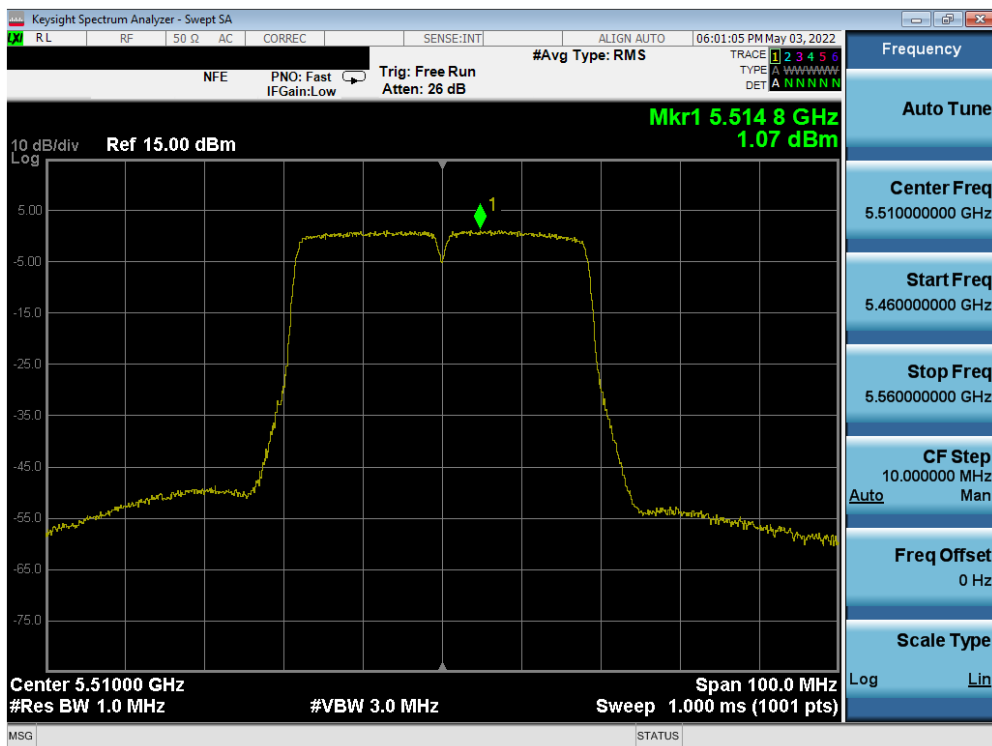


Plot 7-316. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 196 of 304 |

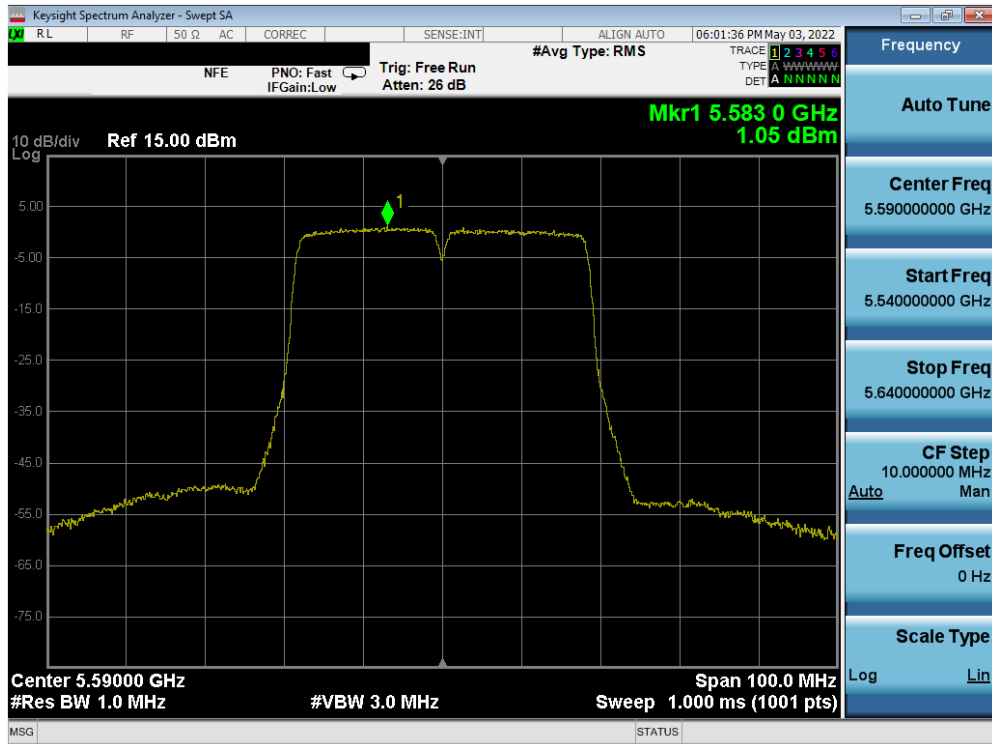


Plot 7-317. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

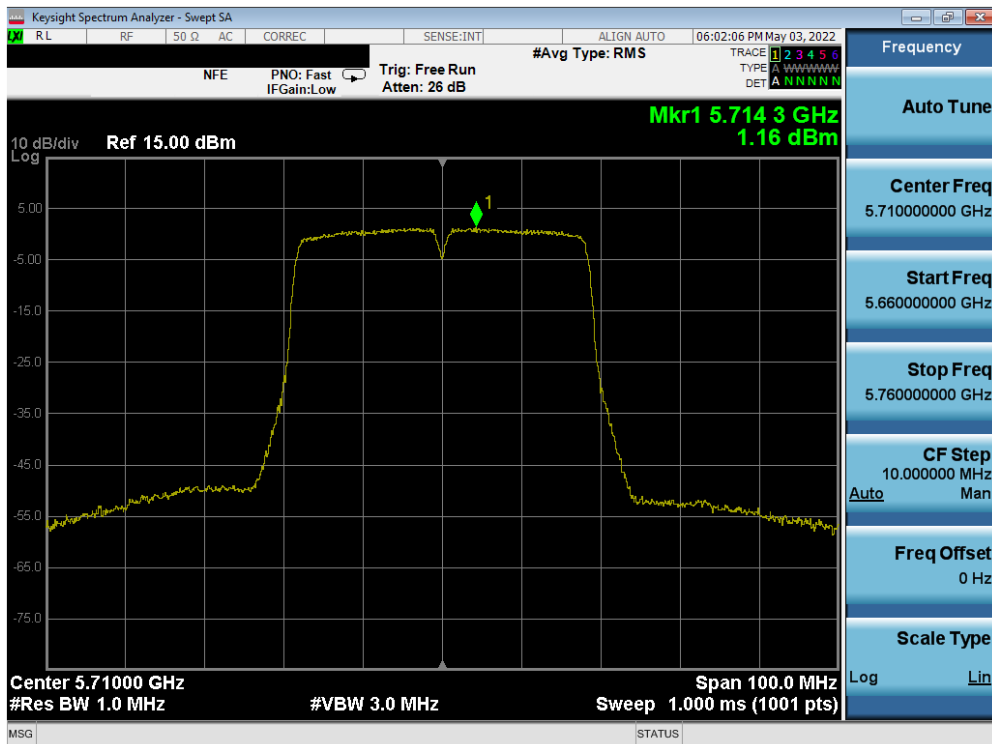


Plot 7-318. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 197 of 304 |

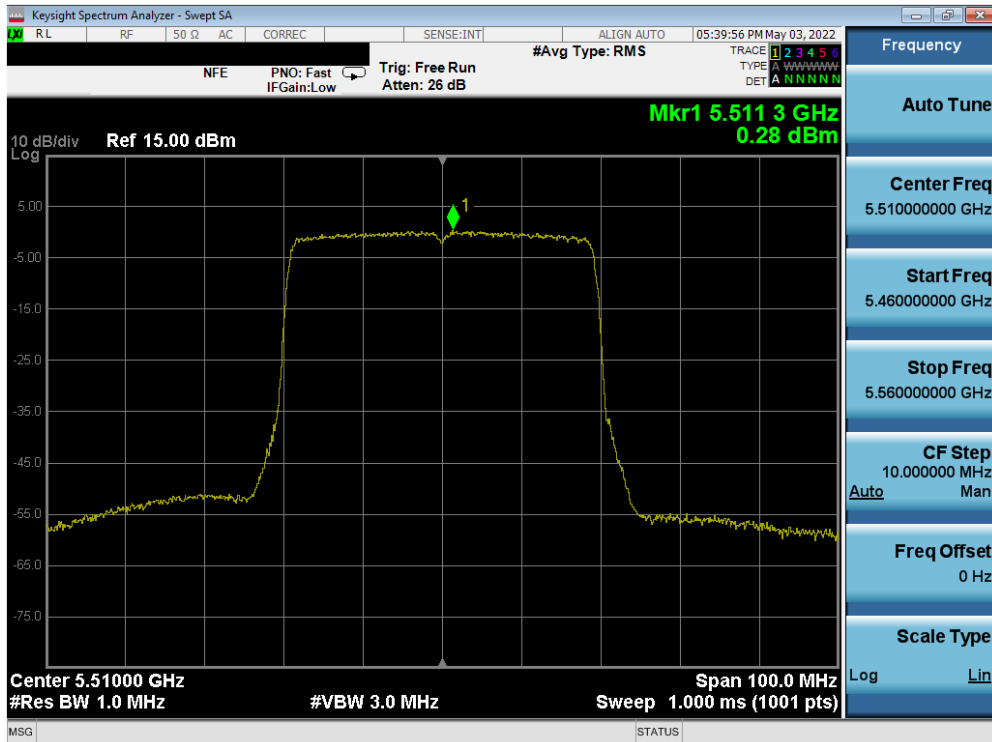


Plot 7-319. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

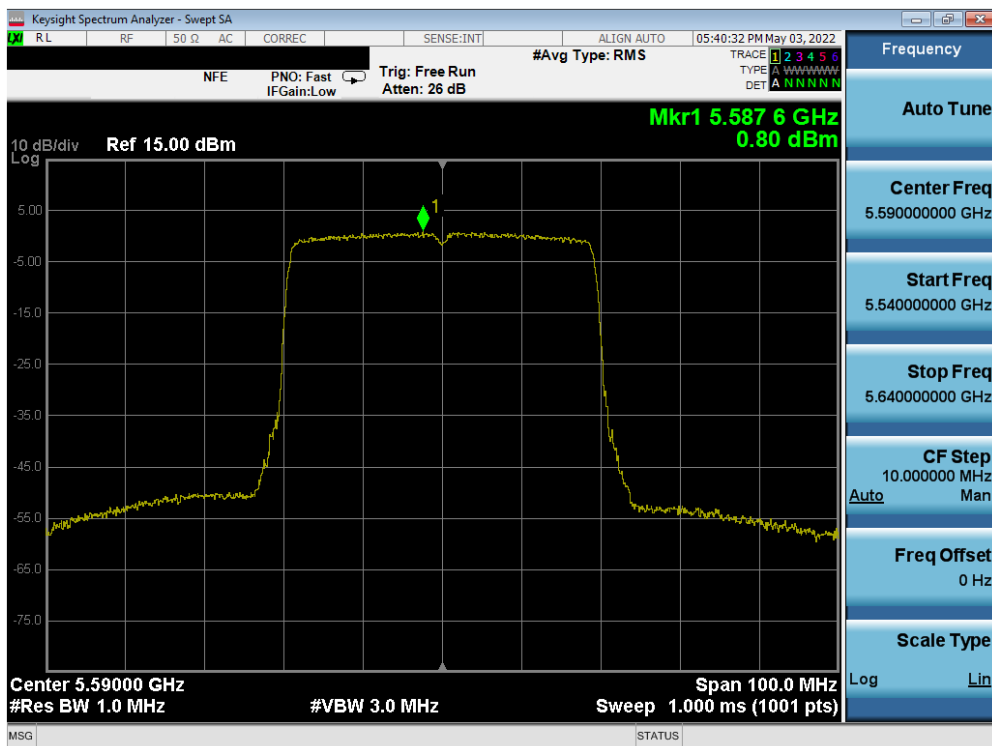


Plot 7-320. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 198 of 304 |

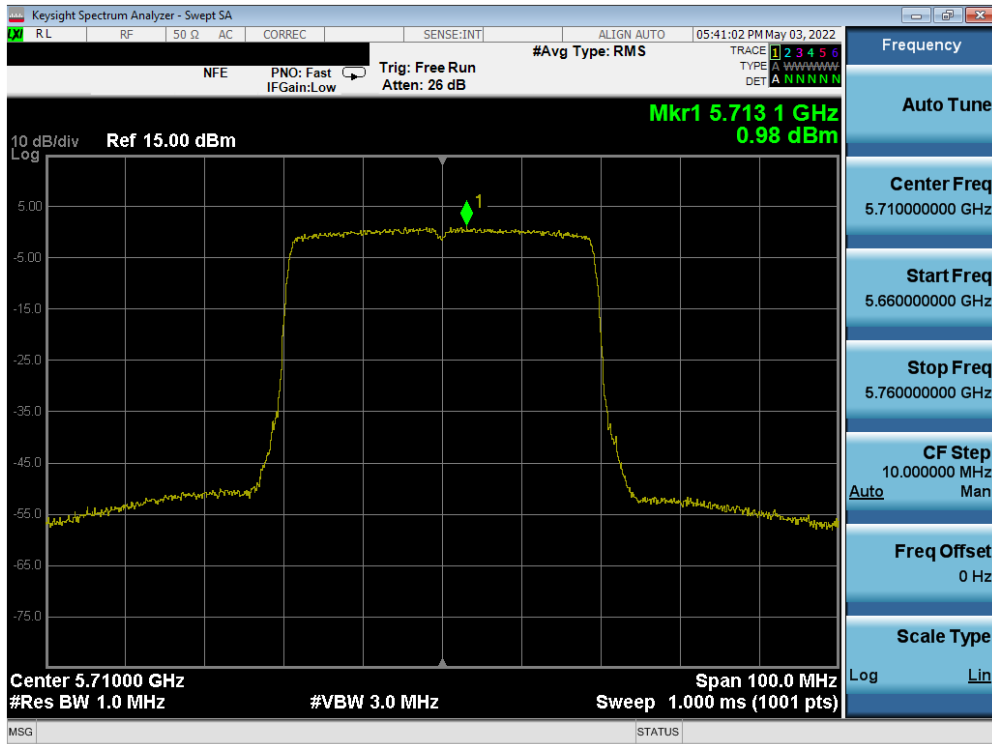


Plot 7-321. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)

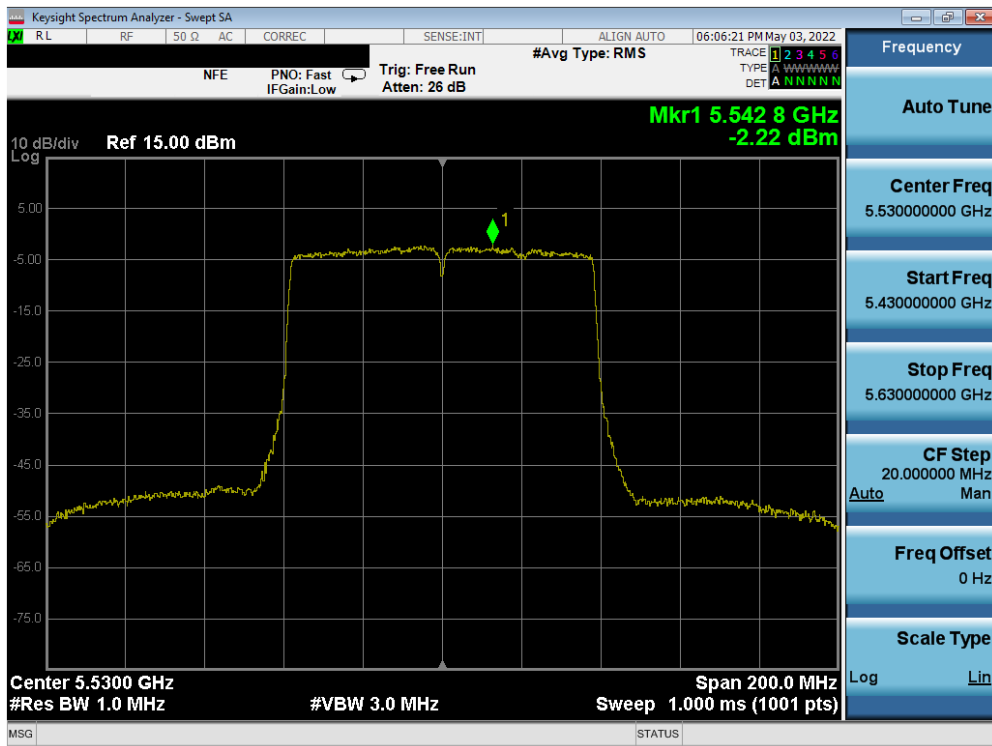


Plot 7-322. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 199 of 304 |

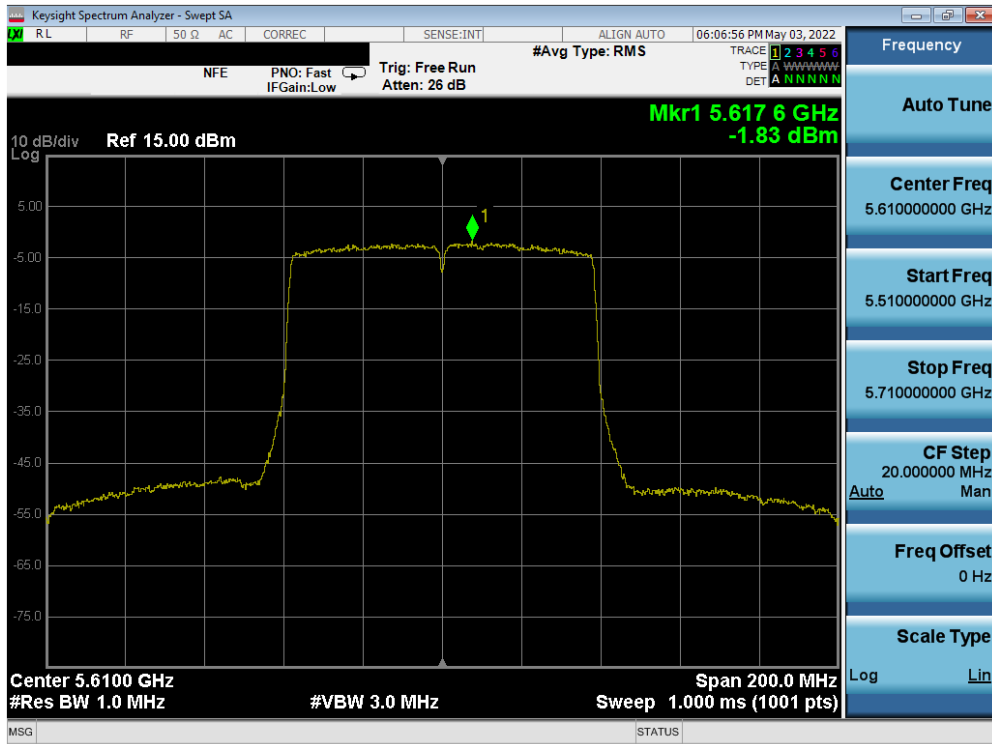


Plot 7-323. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

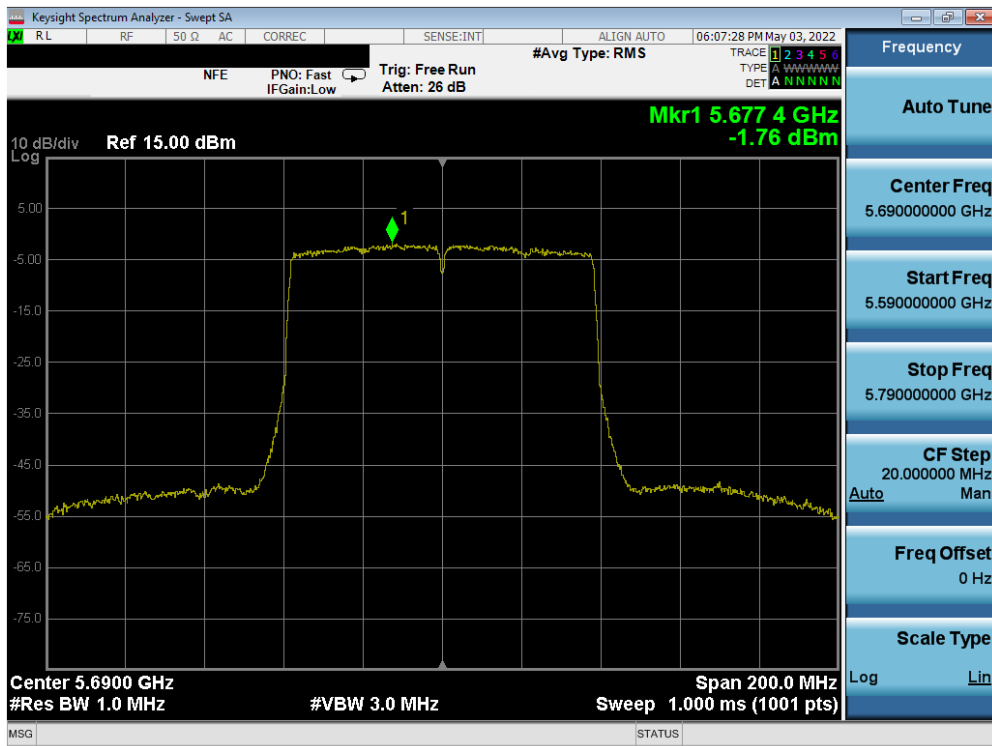


Plot 7-324. Power Spectral Density Plot ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 200 of 304 |

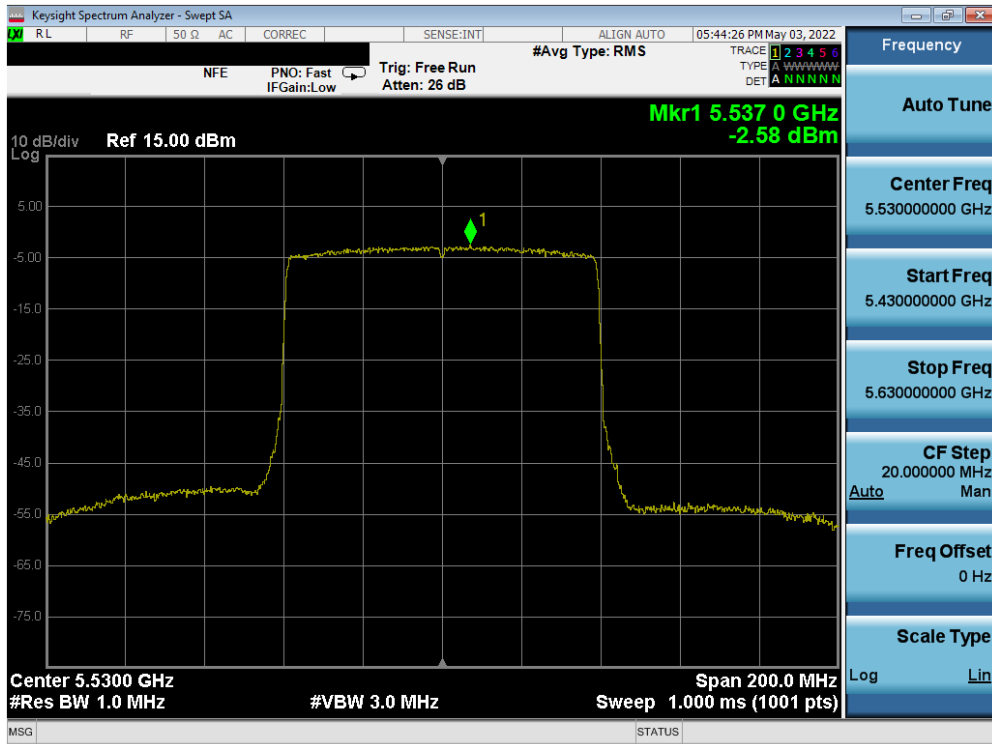


Plot 7-325. Power Spectral Density Plot ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

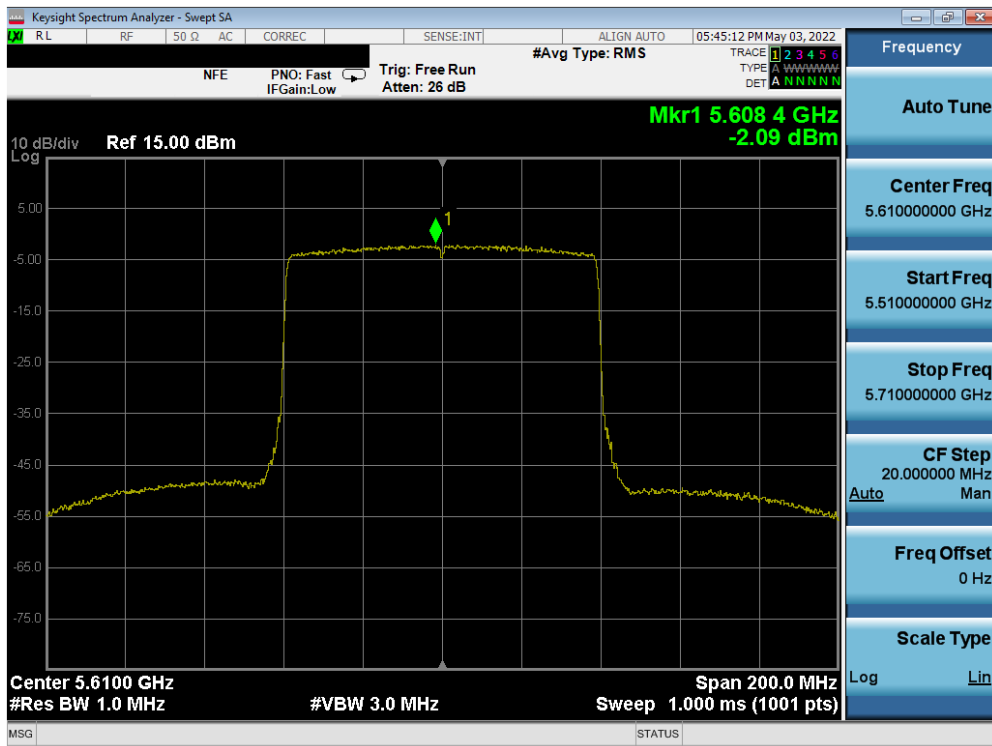


Plot 7-326. Power Spectral Density Plot ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 201 of 304 |

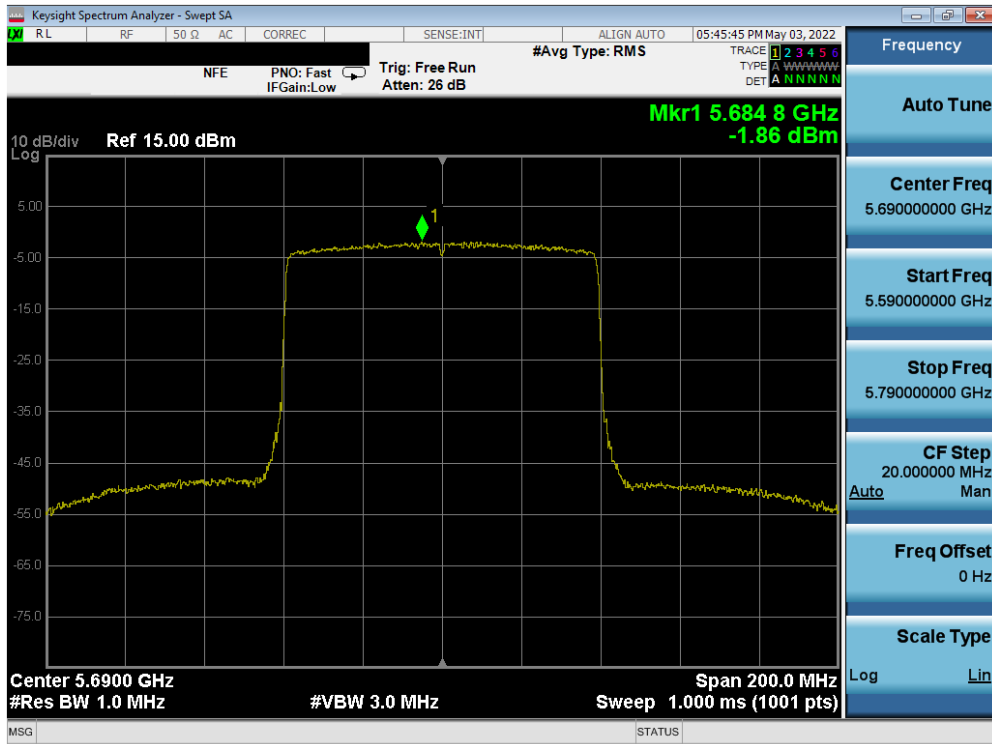


Plot 7-327. Power Spectral Density Plot ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)

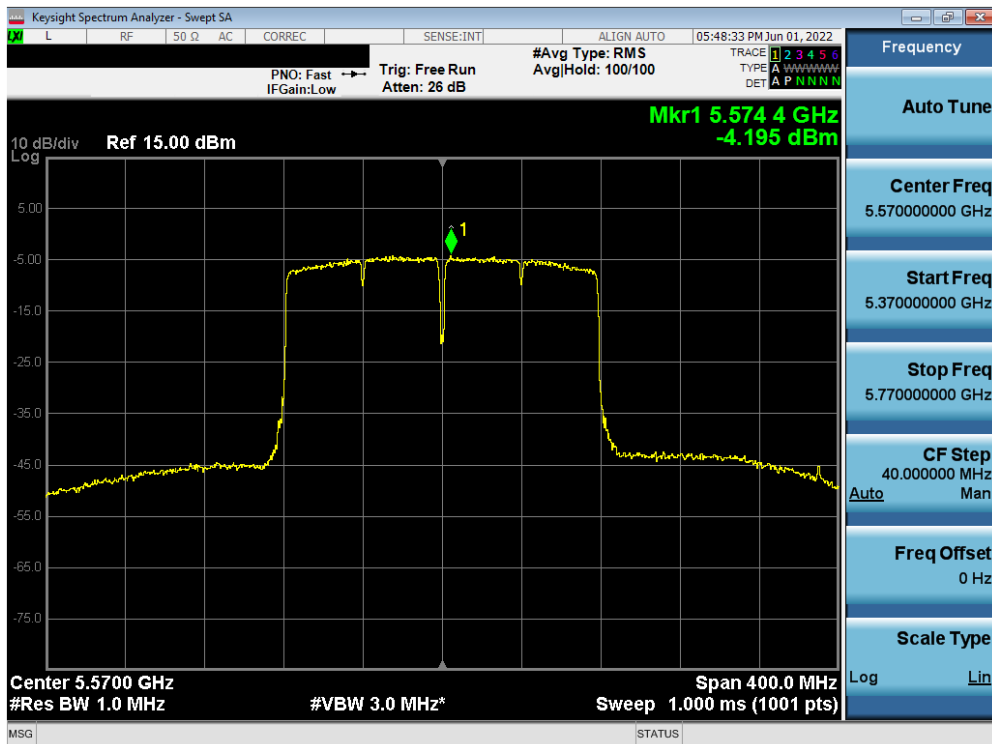


Plot 7-328. Power Spectral Density Plot ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 202 of 304 |

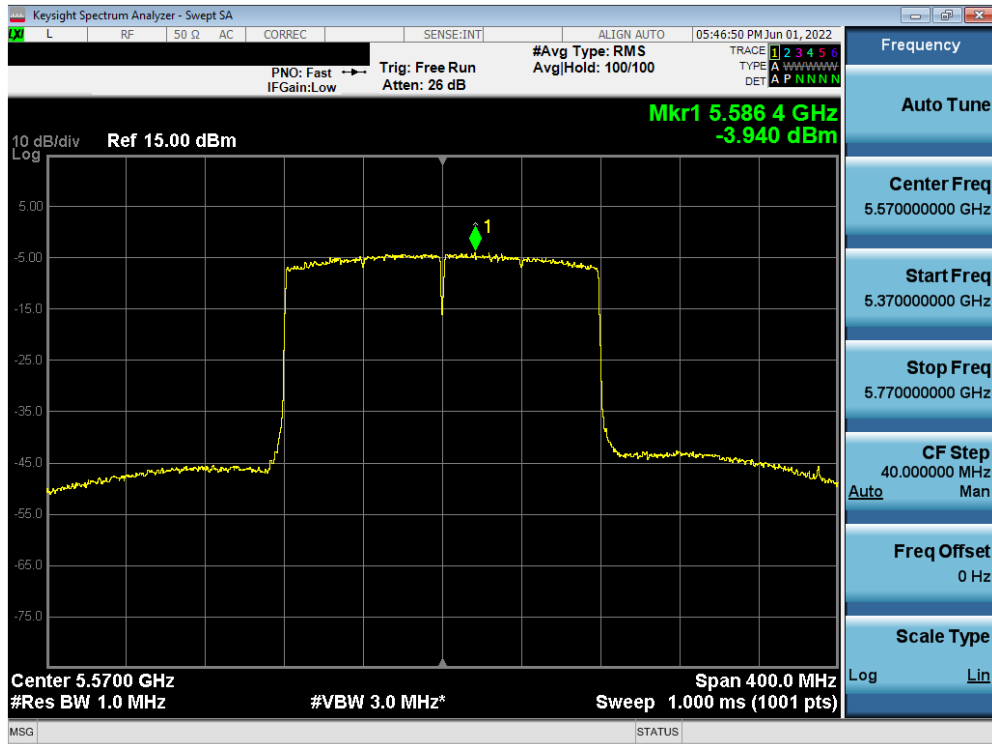


Plot 7-329. Power Spectral Density Plot ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)



Plot 7-330. Power Spectral Density Plot ANT2 (160MHz BW 802.11ac (UNII Band 2C) – Ch. 114)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 203 of 304 |



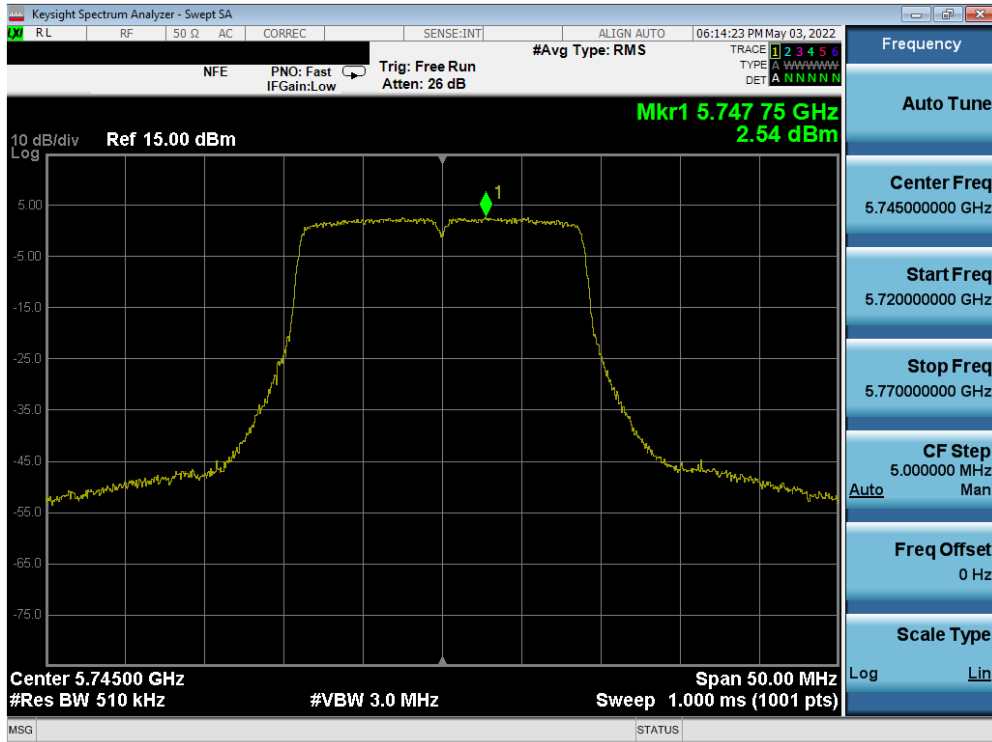
Plot 7-331. Power Spectral Density Plot ANT2 (160MHz BW 802.11ax (UNII Band 2C) – Ch. 114)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 204 of 304 |

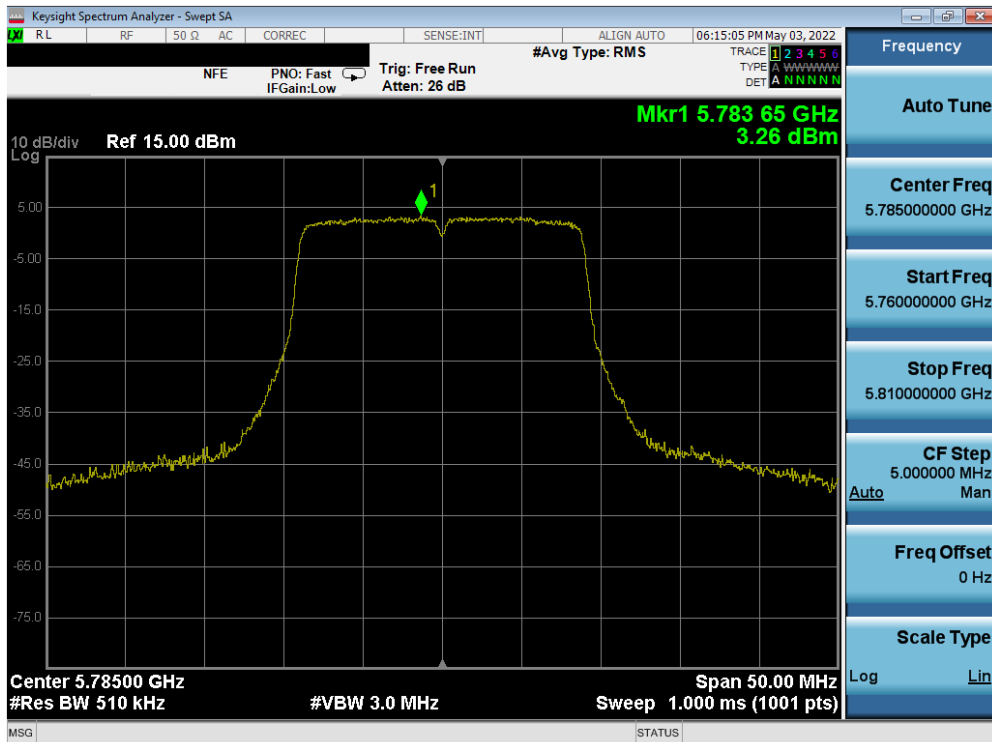
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|---------------|-----------------|-------------|-------------|------------------|------------------------------|--|-------------|
| Band 3 | 5745 | 149 | a | 6 | 2.54 | 30.0 | -27.46 |
| | 5785 | 157 | a | 6 | 3.26 | 30.0 | -26.74 |
| | 5825 | 165 | a | 6 | 3.07 | 30.0 | -26.93 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 3.40 | 30.0 | -26.60 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 3.58 | 30.0 | -26.42 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 3.14 | 30.0 | -26.86 |
| | 5745 | 149 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.03 | 30.0 | -28.97 |
| | 5785 | 157 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.09 | 30.0 | -28.91 |
| | 5825 | 165 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.22 | 30.0 | -28.78 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | -1.86 | 30.0 | -31.86 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | -1.71 | 30.0 | -31.71 |
| | 5755 | 151 | ax (40MHz) | 13.5/15 (MCS0) | -2.29 | 30.0 | -32.29 |
| | 5795 | 159 | ax (40MHz) | 13.5/15 (MCS0) | -1.97 | 30.0 | -31.97 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -3.70 | 30.0 | -33.70 |
| | 5775 | 155 | ax (80MHz) | 29.3/32.5 (MCS0) | -4.79 | 30.0 | -34.79 |

Table 7-27. Band 3 Conducted Power Spectral Density Measurements ANT2

| | | | |
|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 205 of 304 |

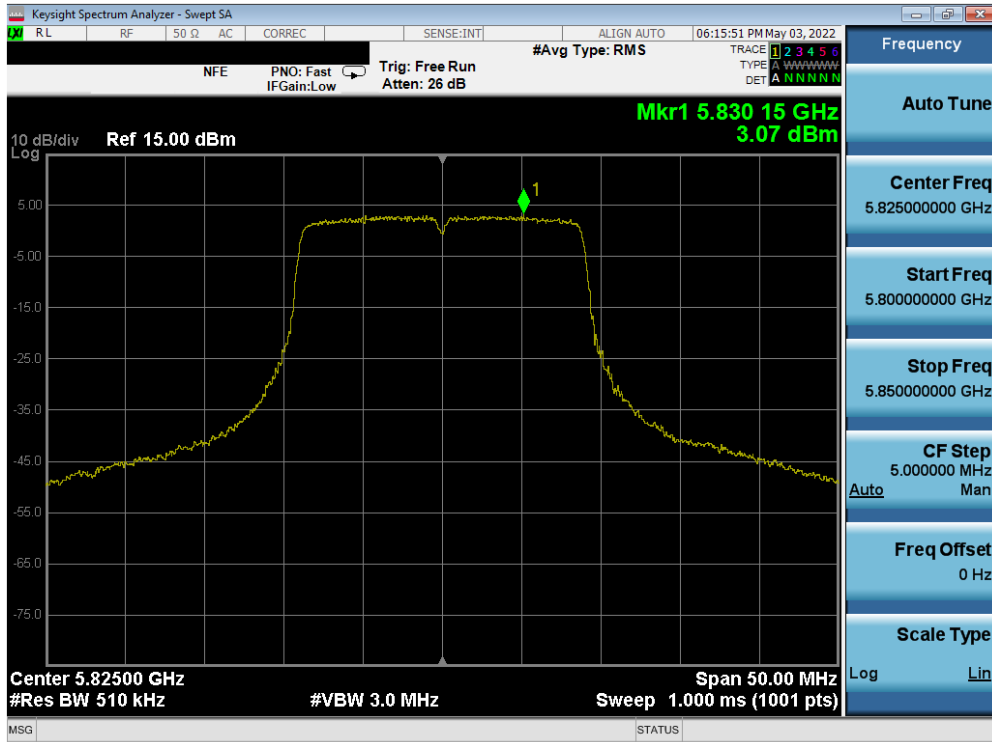


Plot 7-332. Power Spectral Density Plot ANT2 (802.11a (UNII Band 3) – Ch. 149)

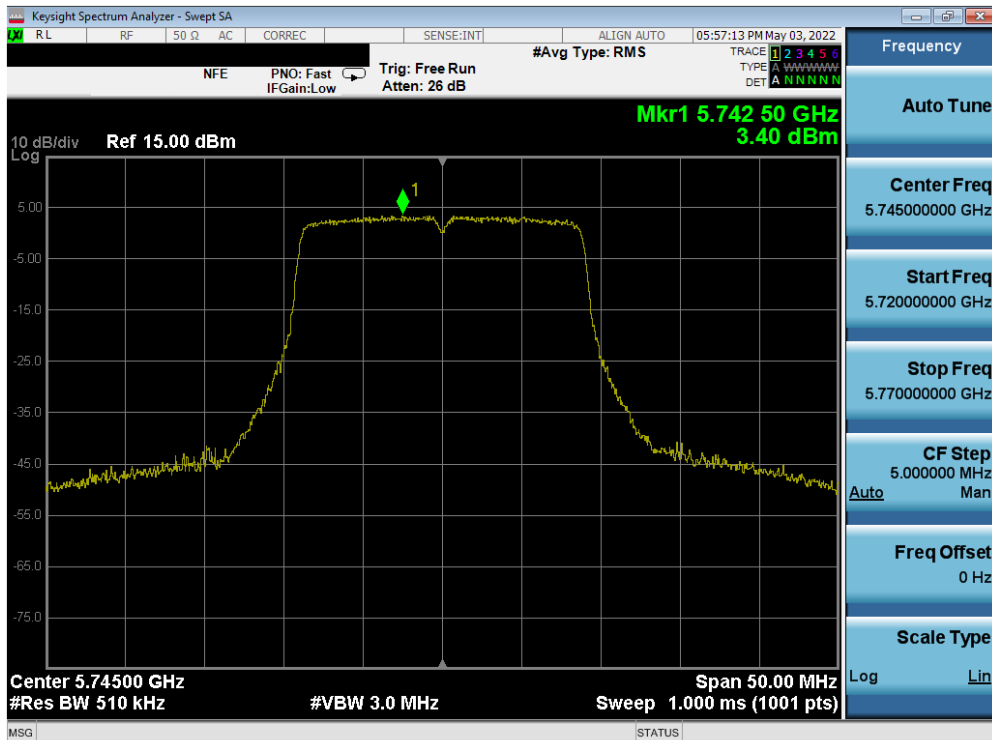


Plot 7-333. Power Spectral Density Plot ANT2 (802.11a (UNII Band 3) – Ch. 157)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 206 of 304 |

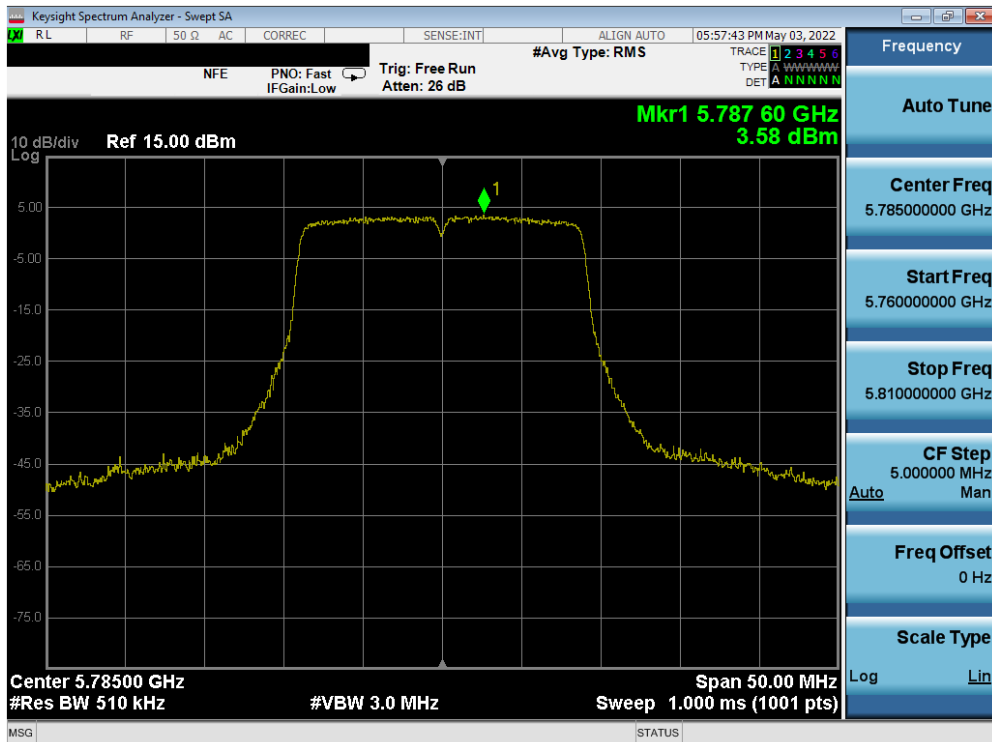


Plot 7-334. Power Spectral Density Plot ANT2 (802.11a (UNII Band 3) – Ch. 165)

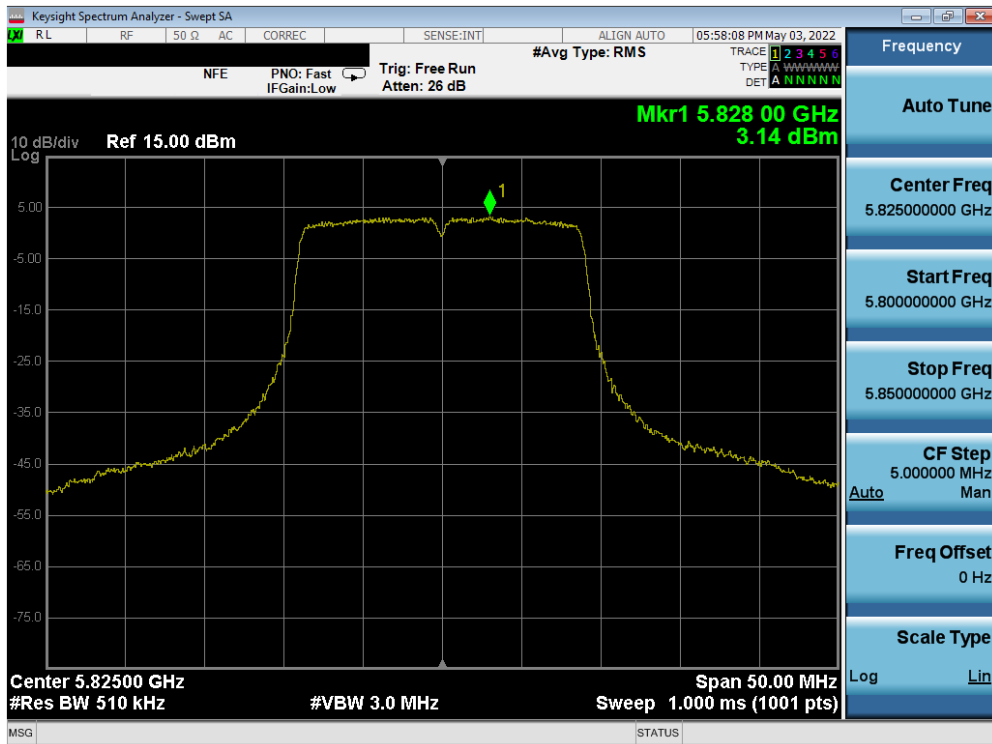


Plot 7-335. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 207 of 304 |

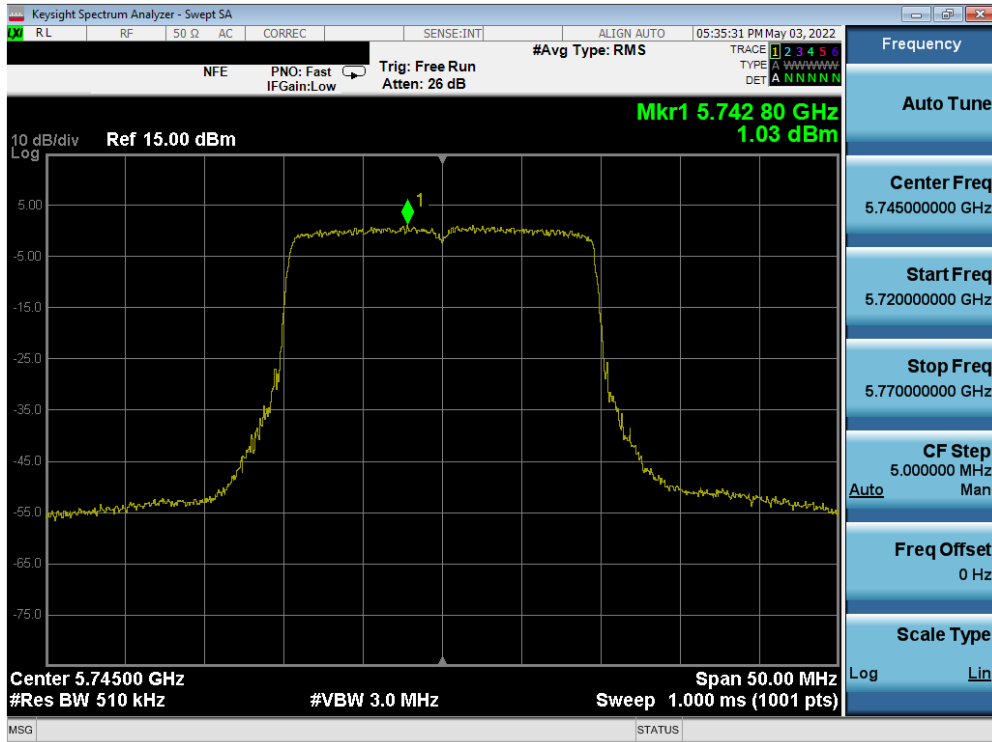


Plot 7-336. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

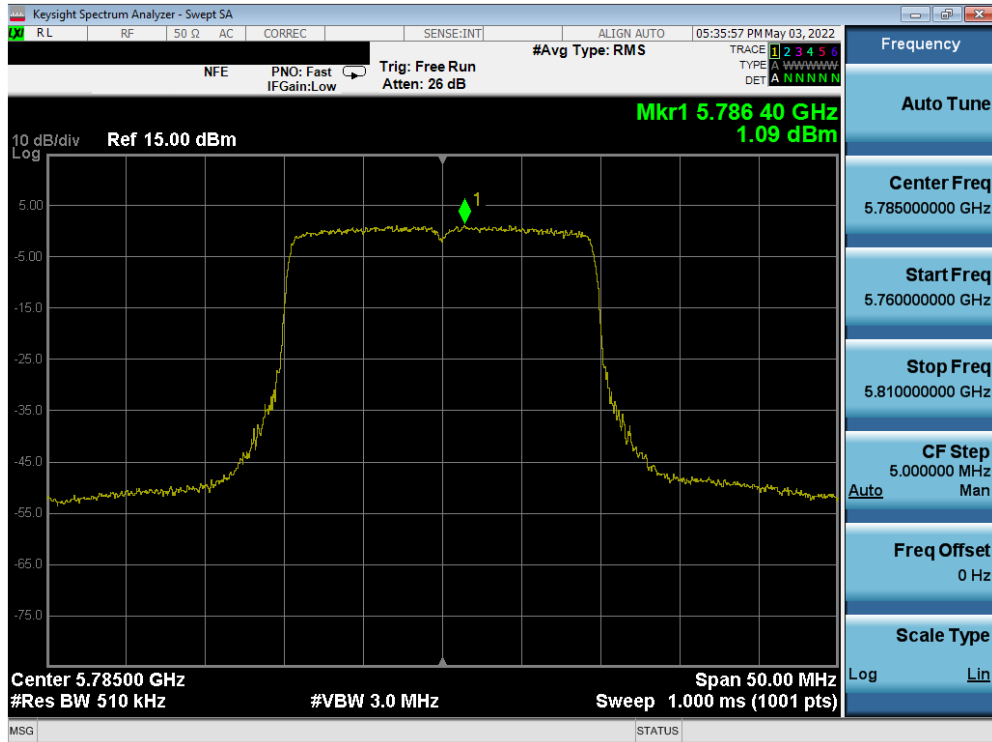


Plot 7-337. Power Spectral Density Plot ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 208 of 304 |

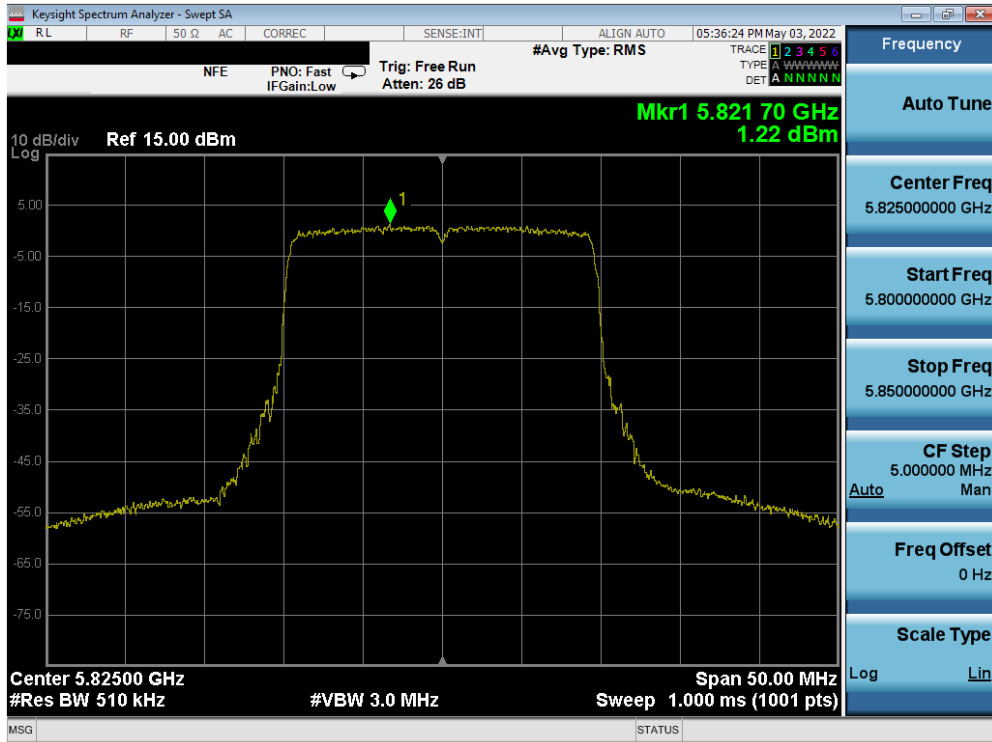


Plot 7-338. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

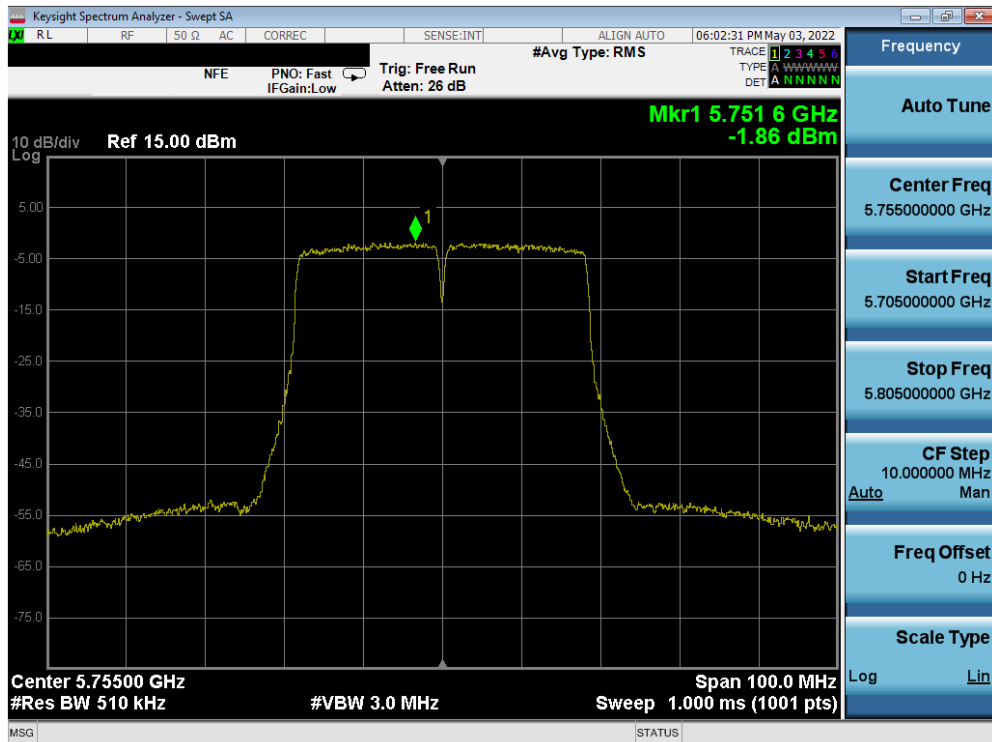


Plot 7-339. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 209 of 304 |

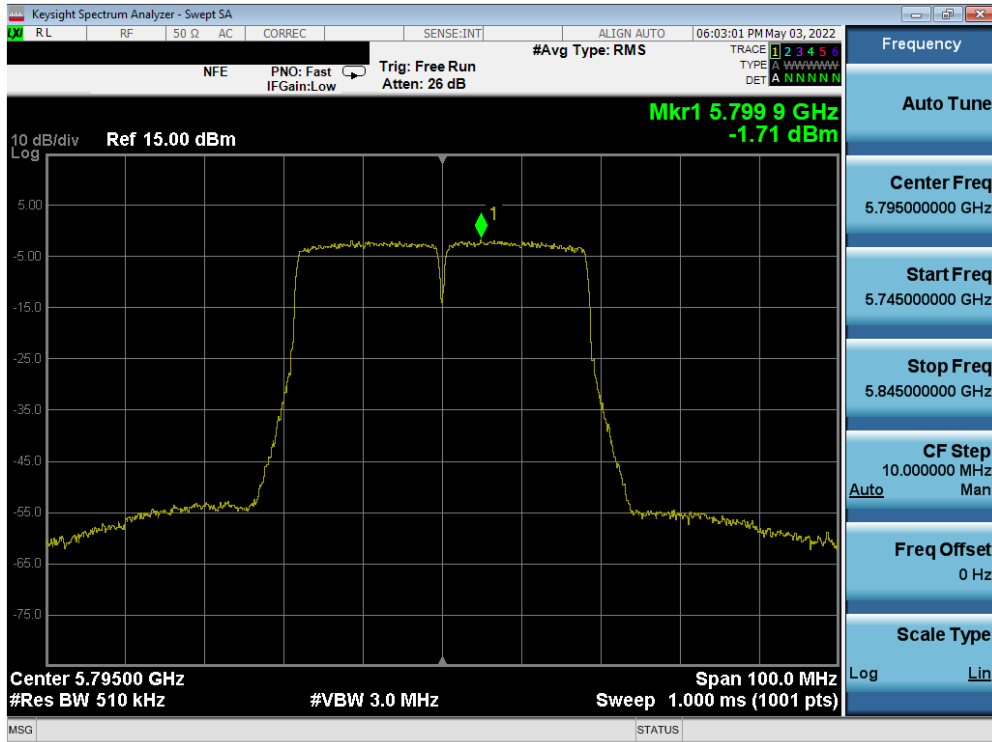


Plot 7-340. Power Spectral Density Plot ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

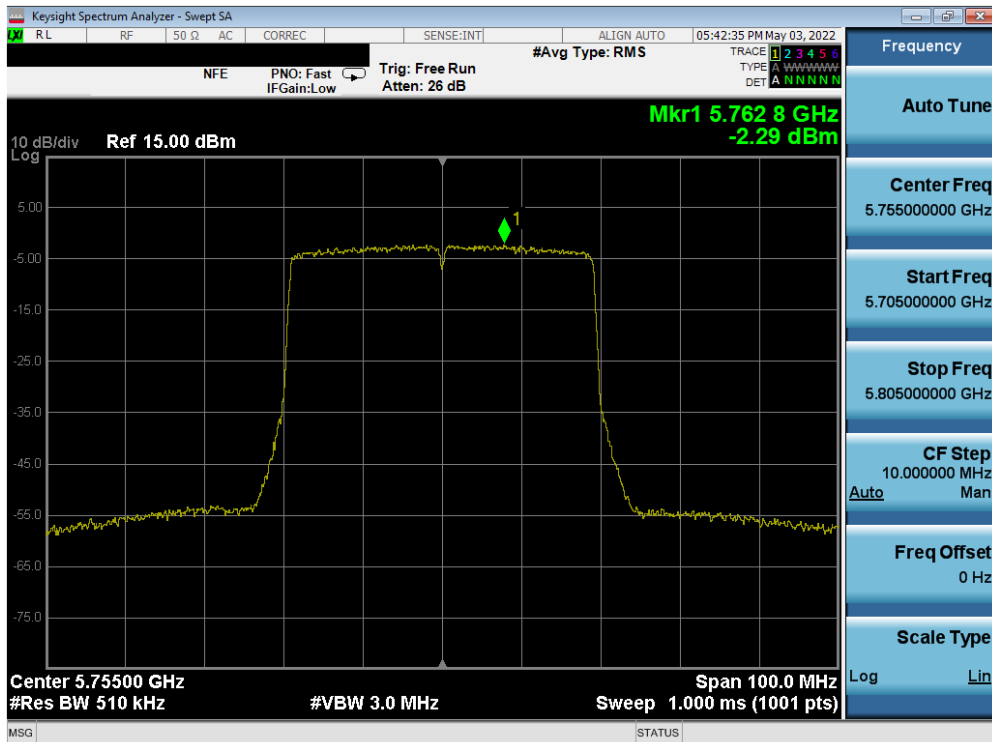


Plot 7-341. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 210 of 304 |

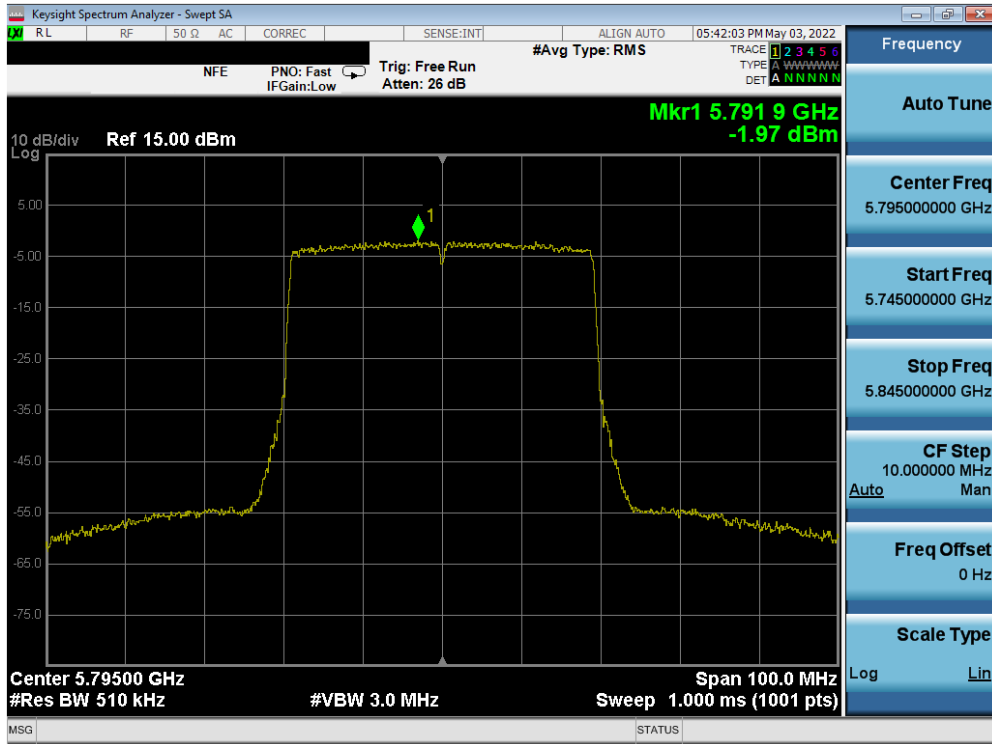


Plot 7-342. Power Spectral Density Plot ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

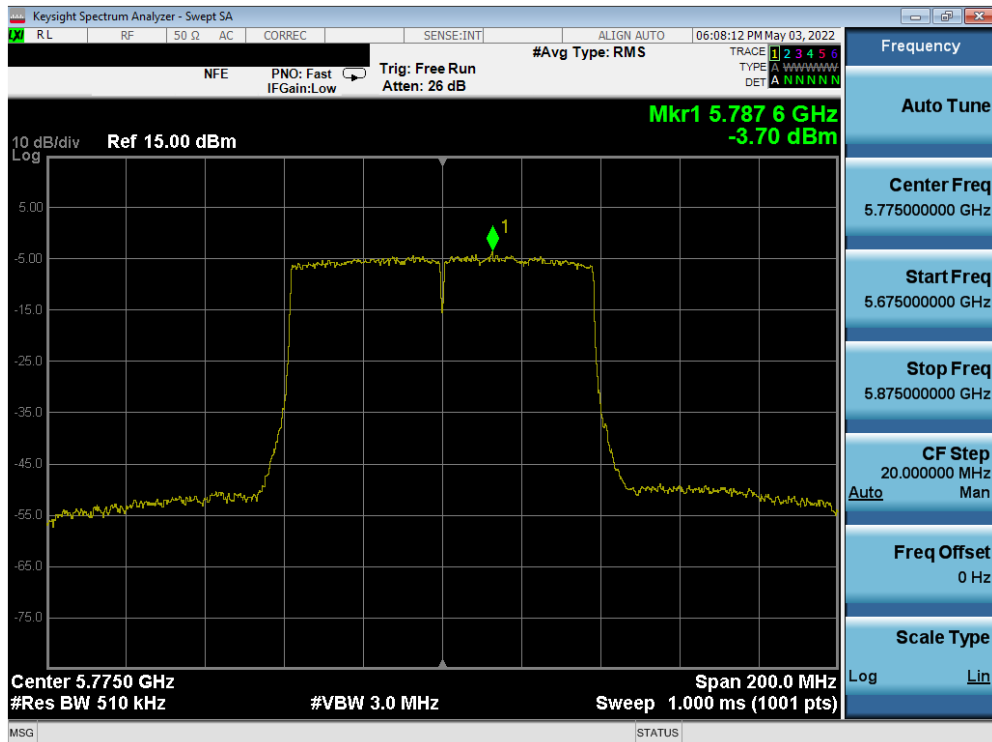


Plot 7-343. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 211 of 304 |

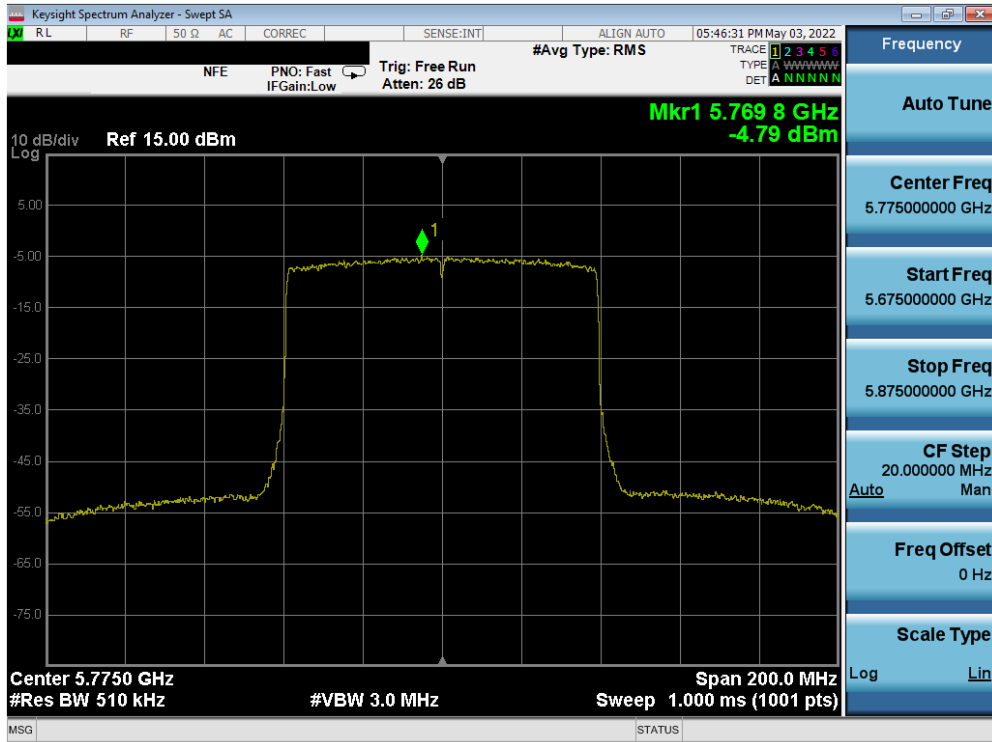


Plot 7-344. Power Spectral Density Plot ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)



Plot 7-345. Power Spectral Density Plot ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 212 of 304 |



Plot 7-346. Power Spectral Density Plot ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

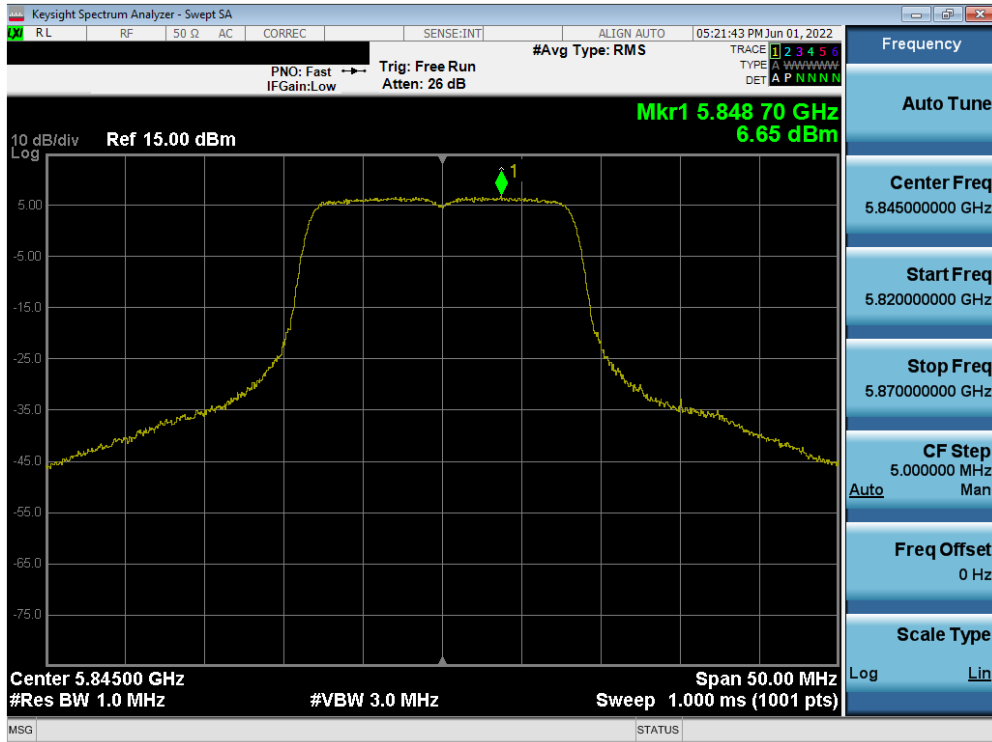
| | | | |
|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 213 of 304 |



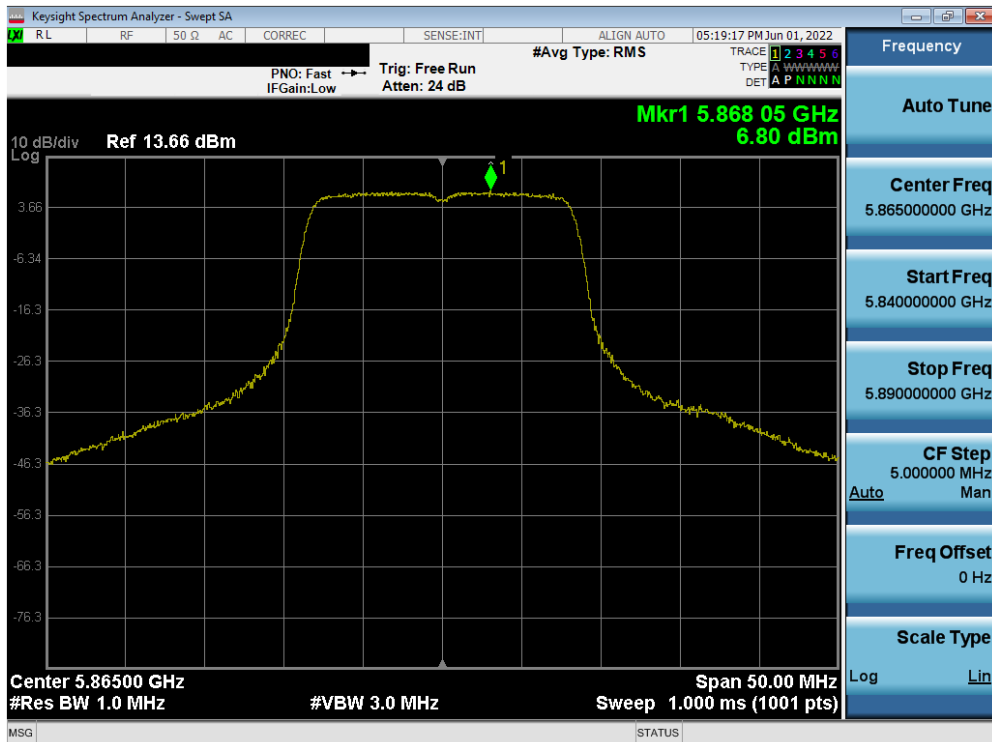
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm/MHz] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] | Antenna Gain [dBi] | EIRP Power Density [dBm/MHz] | Max EIRP Power Density [dBm/MHz] | Margin [dB] |
|----------|-----------------|-------------|-------------|------------------|----------------------------------|--|-------------|--------------------|------------------------------|----------------------------------|-------------|
| Band 3/4 | 5845 | 169 | a | 6 | 6.65 | 30.00 | -23.35 | -6.00 | 0.65 | 14.00 | -13.35 |
| Band 4 | 5865 | 173 | a | 6 | 6.80 | | | -6.00 | 0.80 | 14.00 | -13.20 |
| | 5885 | 177 | a | 6 | 6.75 | | | -6.00 | 0.75 | 14.00 | -13.25 |
| Band 3/4 | 5845 | 169 | n (20MHz) | 6.5/7.2 (MCS0) | 6.22 | 30.00 | -23.78 | -6.00 | 0.22 | 14.00 | -13.78 |
| Band 4 | 5865 | 173 | n (20MHz) | 6.5/7.2 (MCS0) | 6.43 | | | -6.00 | 0.43 | 14.00 | -13.57 |
| | 5885 | 177 | n (20MHz) | 6.5/7.2 (MCS0) | 6.43 | | | -6.00 | 0.43 | 14.00 | -13.57 |
| Band 3/4 | 5845 | 169 | ac (20MHz) | 6.5/7.2 (MCS0) | 6.40 | 30.00 | -23.60 | -6.00 | 0.40 | 14.00 | -13.60 |
| Band 4 | 5865 | 173 | ac (20MHz) | 6.5/7.2 (MCS0) | 6.38 | | | -6.00 | 0.38 | 14.00 | -13.62 |
| | 5885 | 177 | ac (20MHz) | 6.5/7.2 (MCS0) | 6.41 | | | -6.00 | 0.41 | 14.00 | -13.59 |
| Band 3/4 | 5845 | 169 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.88 | 30.00 | -25.12 | -6.00 | -1.12 | 14.00 | -15.12 |
| Band 4 | 5865 | 173 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.77 | | | -6.00 | -1.23 | 14.00 | -15.23 |
| | 5885 | 177 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.85 | | | -6.00 | -1.15 | 14.00 | -15.15 |
| Band 3/4 | 5835 | 167 | n (40MHz) | 13.5/15 (MCS0) | 2.75 | 30.00 | -27.25 | -6.00 | -3.25 | 14.00 | -17.25 |
| Band 4 | 5875 | 175 | n (40MHz) | 13.5/15 (MCS0) | 2.59 | | | -6.00 | -3.41 | 14.00 | -17.41 |
| Band 3/4 | 5835 | 167 | ac (40MHz) | 13.5/15 (MCS0) | 2.32 | 30.00 | -27.68 | -6.00 | -3.68 | 14.00 | -17.68 |
| Band 4 | 5875 | 175 | ac (40MHz) | 13.5/15 (MCS0) | 2.50 | | | -6.00 | -3.50 | 14.00 | -17.50 |
| Band 3/4 | 5835 | 167 | ax (40MHz) | 13.5/15 (MCS0) | 2.31 | 30.00 | -27.69 | -6.00 | -3.69 | 14.00 | -17.69 |
| Band 4 | 5875 | 175 | ax (40MHz) | 13.5/15 (MCS0) | 2.45 | | | -6.00 | -3.55 | 14.00 | -17.55 |
| Band 3/4 | 5855 | 171 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.95 | 30.00 | -30.95 | -6.00 | -6.95 | 14.00 | -20.95 |
| | 5855 | 171 | ax (80MHz) | 29.3/32.5 (MCS0) | -0.81 | 30.00 | -30.81 | -6.00 | -6.81 | 14.00 | -20.81 |
| | 5815 | 163 | ac (160MHz) | 58.5/65 (MCS0) | -6.16 | 30.00 | -36.16 | -6.00 | -12.16 | 14.00 | -26.16 |
| | 5815 | 163 | ax (160MHz) | 58.5/65 (MCS0) | -3.11 | 30.00 | -33.11 | -6.00 | -9.11 | 14.00 | -23.11 |

Table 7-28. Band 4 e.i.r.p Power Spectral Density Measurements ANT2

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 214 of 304 |

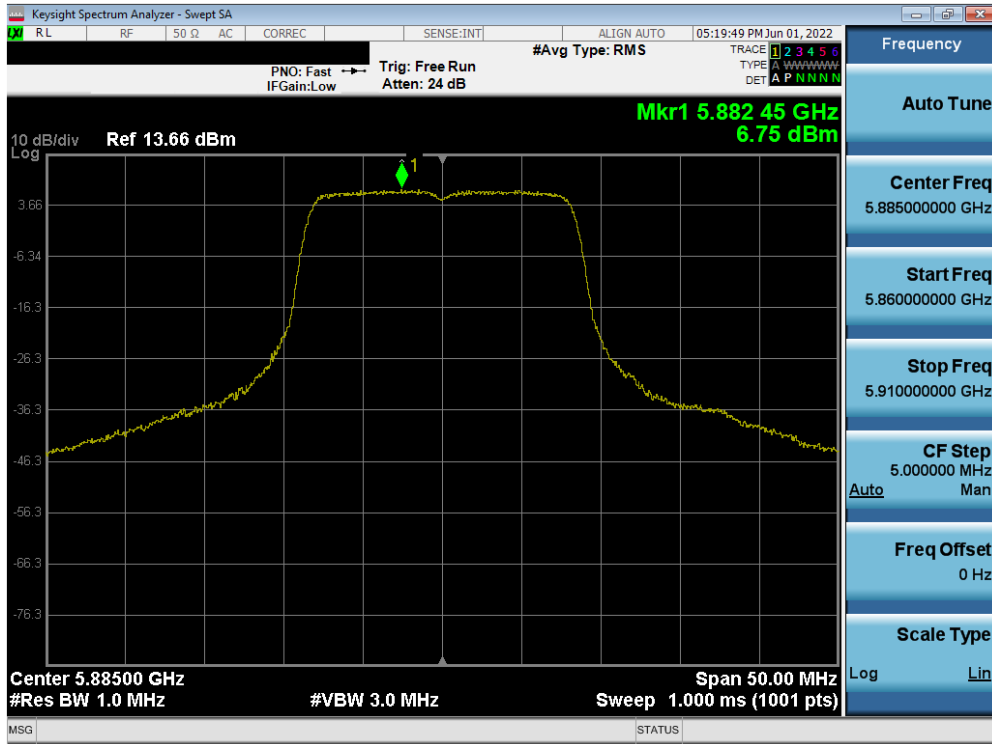


Plot 7-347. Power Spectral Density ANT2 (802.11a (UNII Band 3/4) – Ch. 169)

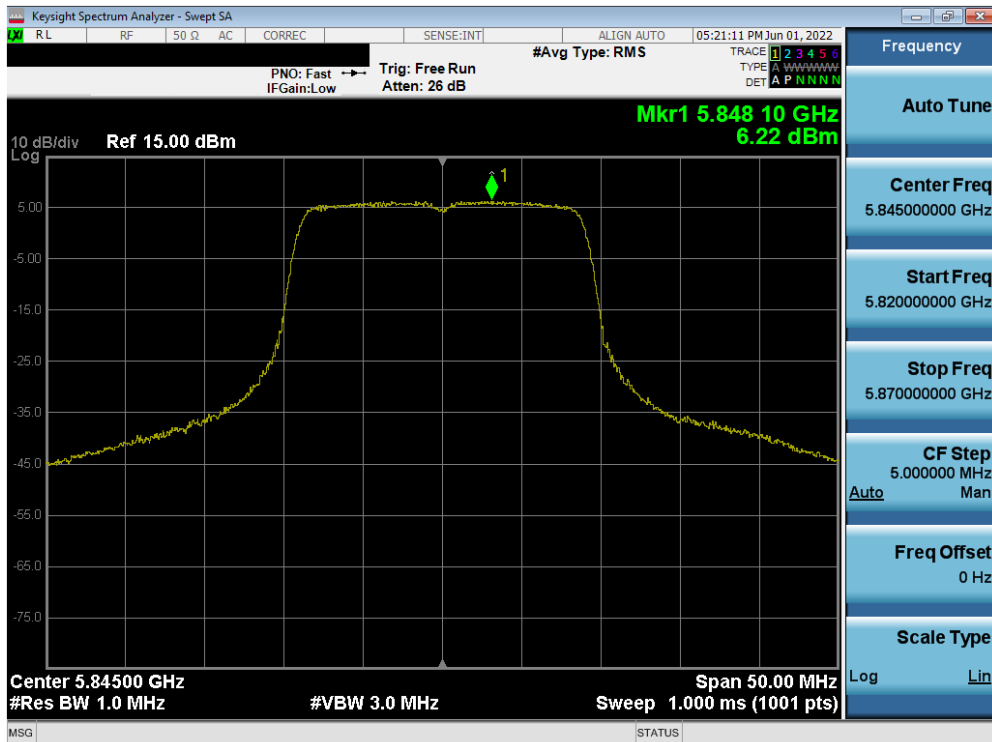


Plot 7-348. Power Spectral Density ANT2 (802.11a (UNII Band 4) – Ch. 173)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 215 of 304 |

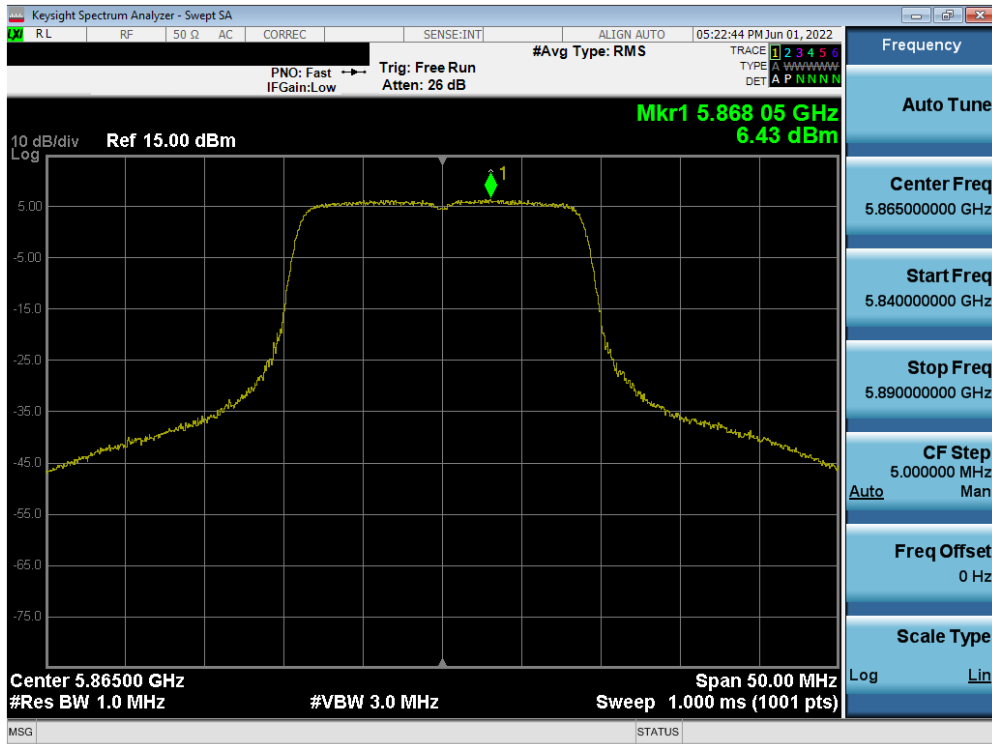


Plot 7-349. Power Spectral Density ANT2 (802.11a (UNII Band 4) – Ch. 177)

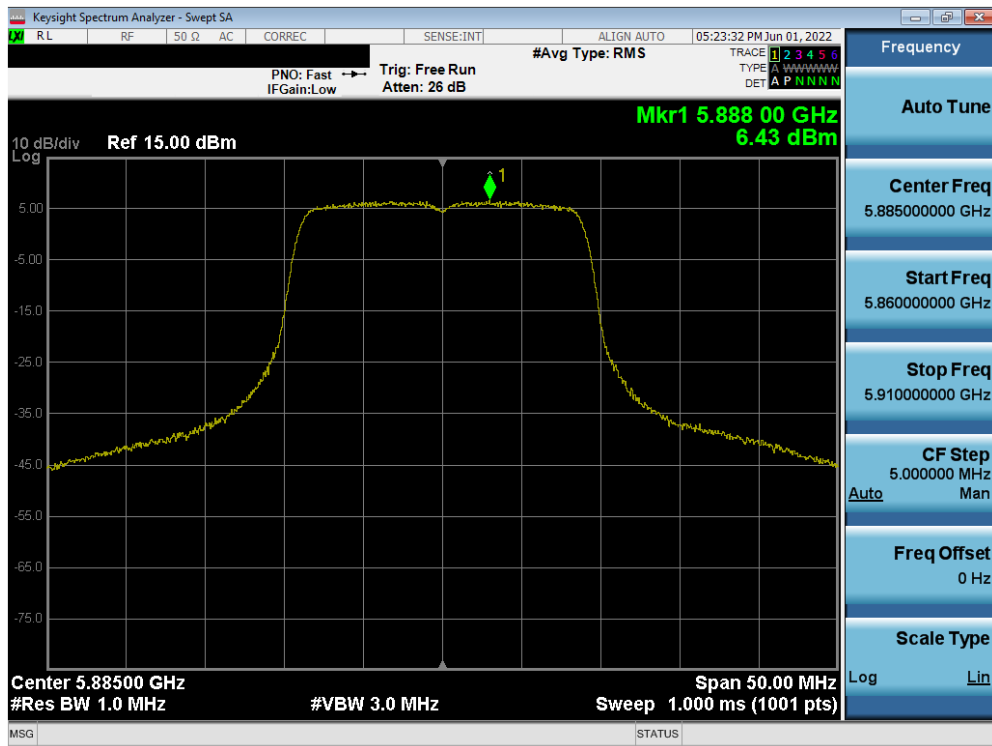


Plot 7-350. Power Spectral Density ANT2 (20MHz BW 802.11n (UNII Band 3/4) – Ch. 169)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 216 of 304 |

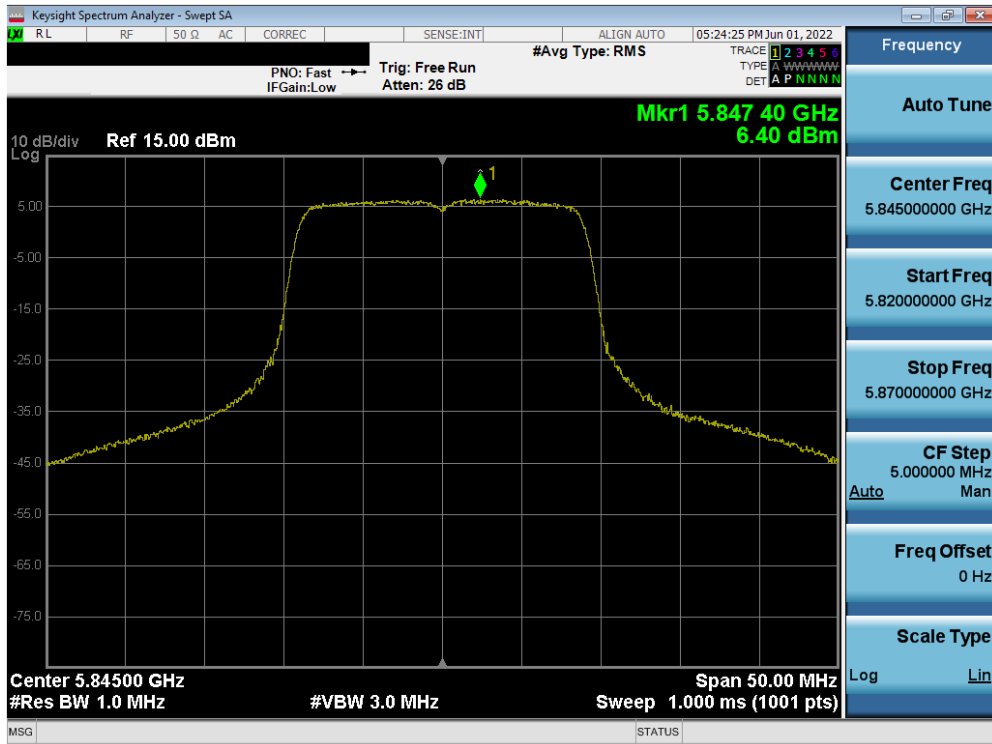


Plot 7-351. Power Spectral Density ANT2 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

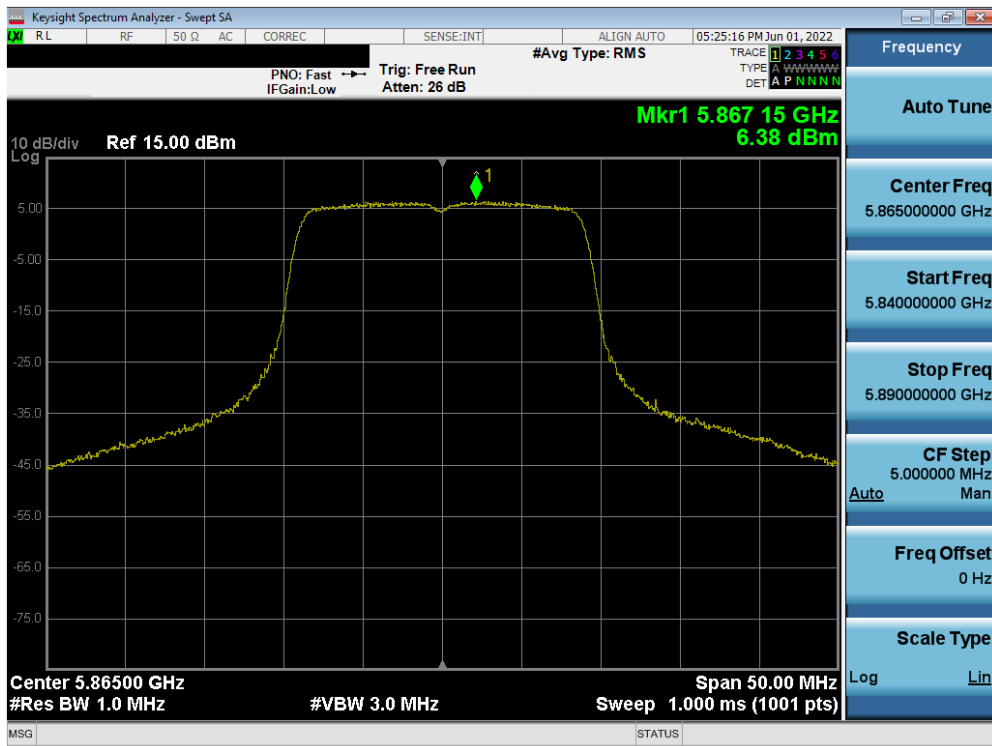


Plot 7-352. Power Spectral Density ANT2 (20MHz BW 802.11n (UNII Band 4) – Ch. 177)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 217 of 304 |

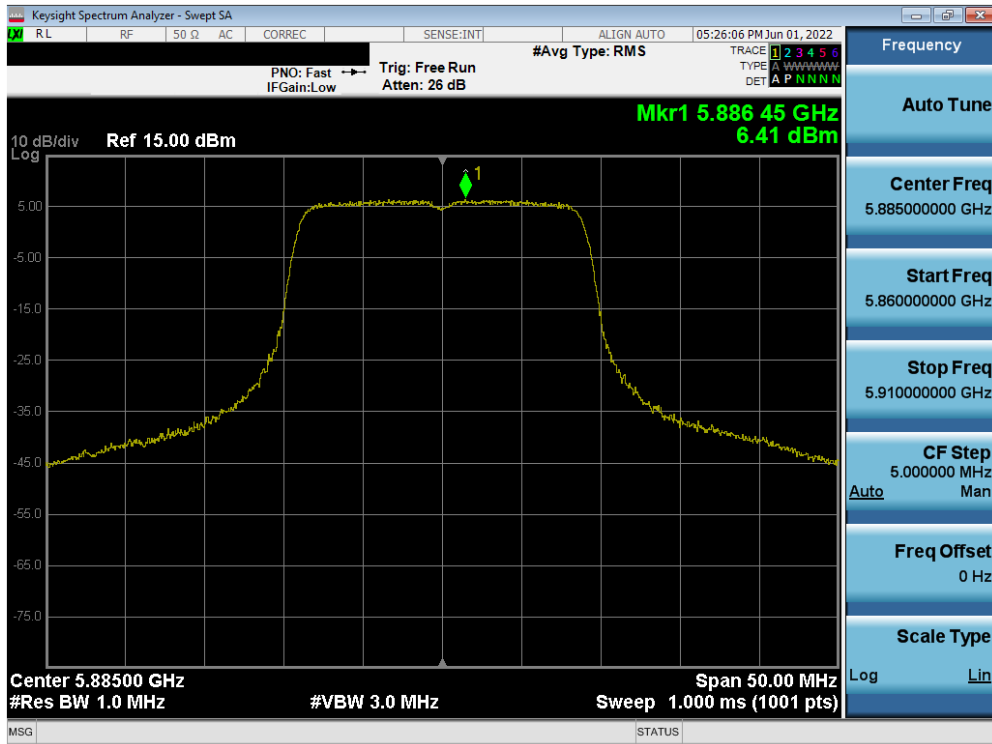


Plot 7-353. Power Spectral Density ANT2 (20MHz BW 802.11ac (UNII Band 3/4) – Ch. 169)

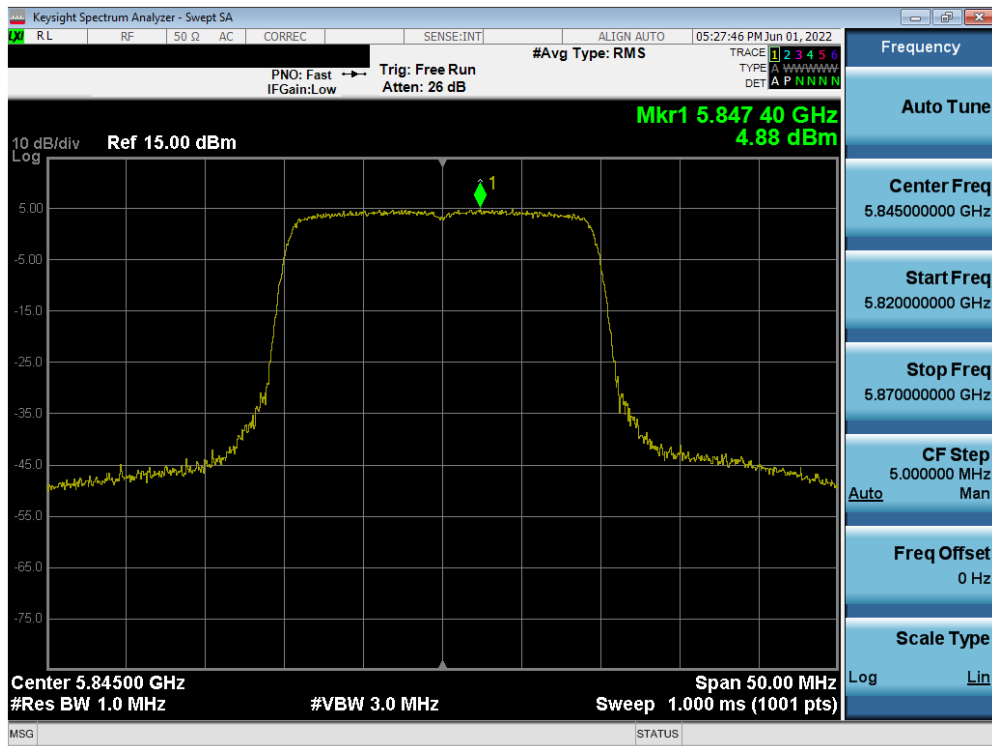


Plot 7-354. Power Spectral Density ANT2 (20MHz BW 802.11ac (UNII Band 4) – Ch. 173)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 218 of 304 |

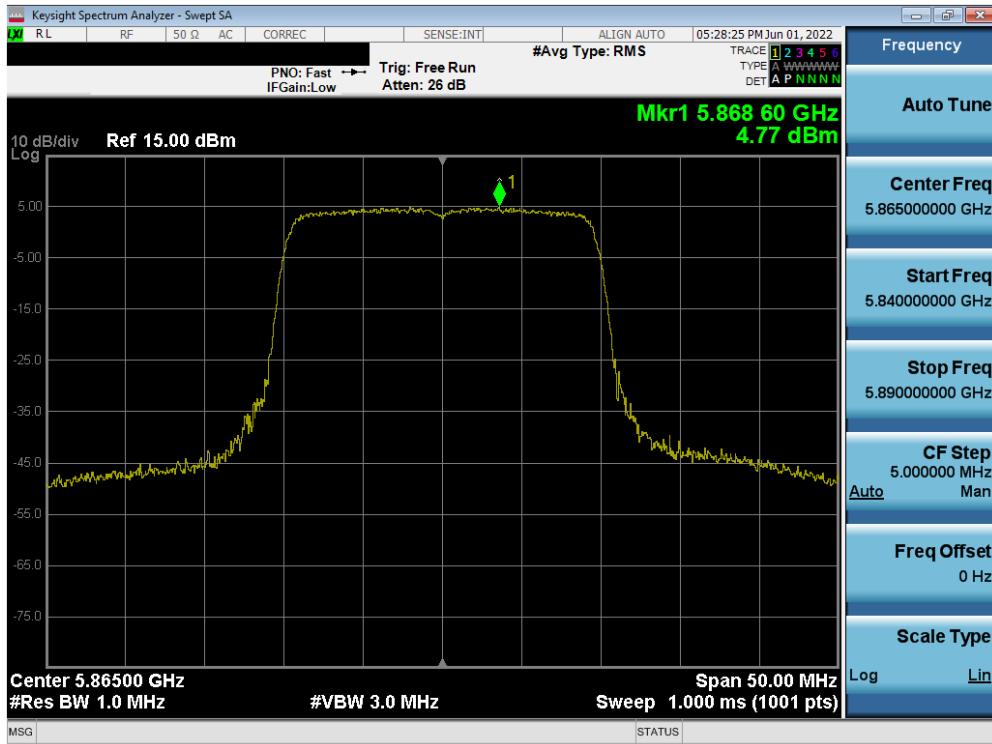


Plot 7-355. Power Spectral Density ANT2 (20MHz BW 802.11ac (UNII Band 4) – Ch. 177)

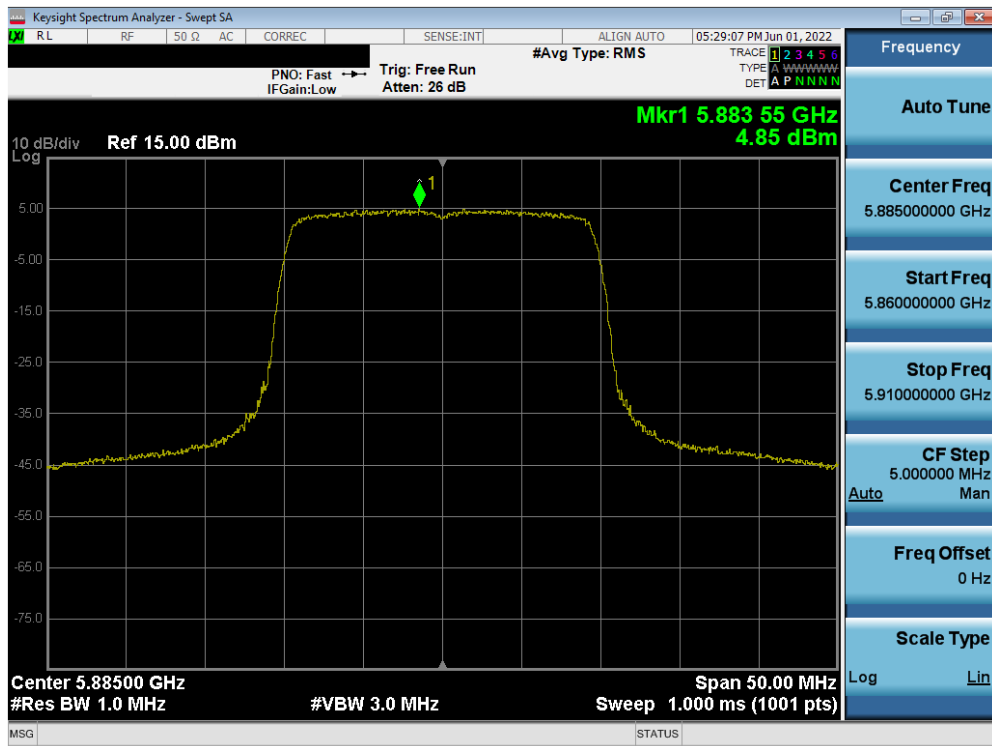


Plot 7-356. Power Spectral Density ANT2 (20MHz BW 802.11ax (UNII Band 3/4) – Ch. 169)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 219 of 304 |

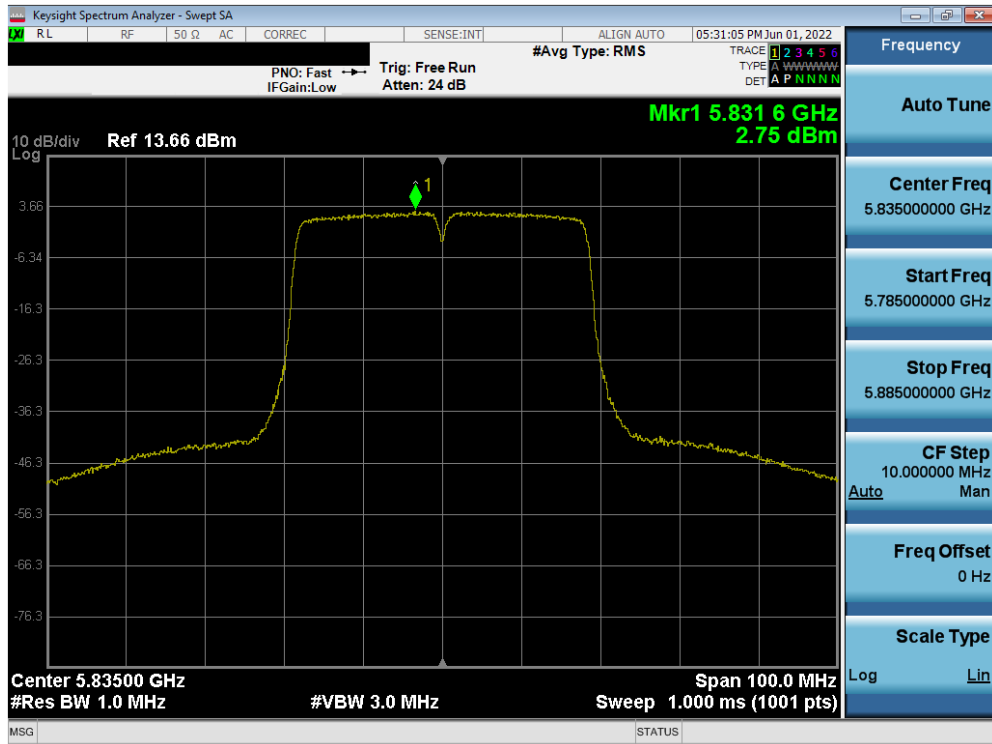


Plot 7-357. Power Spectral Density ANT2 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

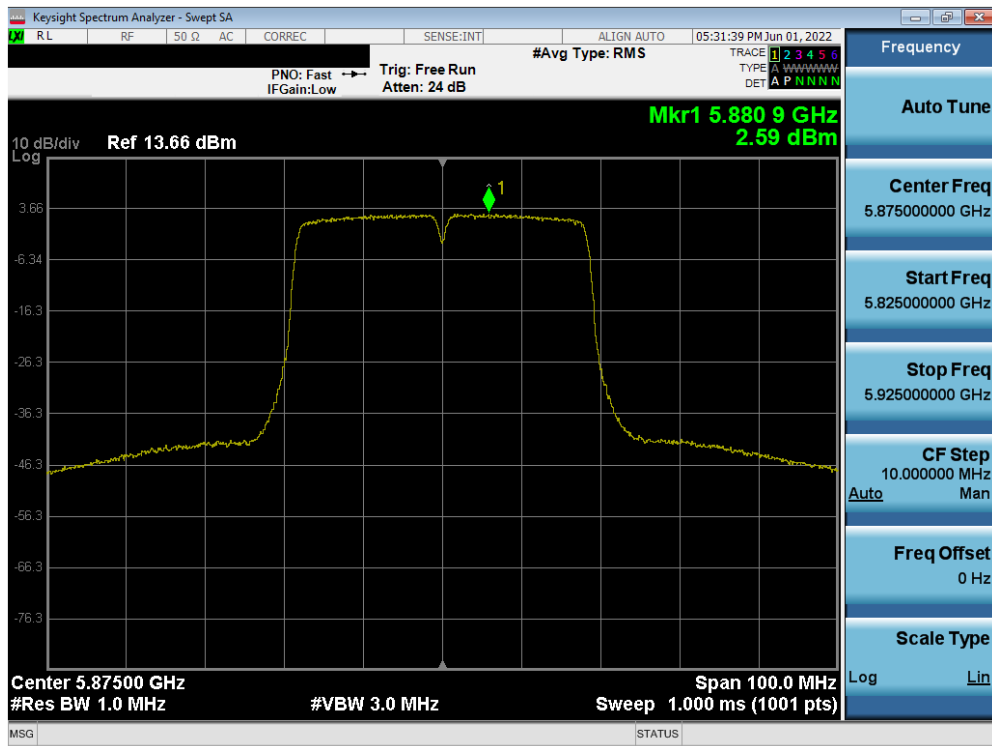


Plot 7-358. Power Spectral Density ANT2 (20MHz BW 802.11ax (UNII Band 4) – Ch. 177)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 220 of 304 |

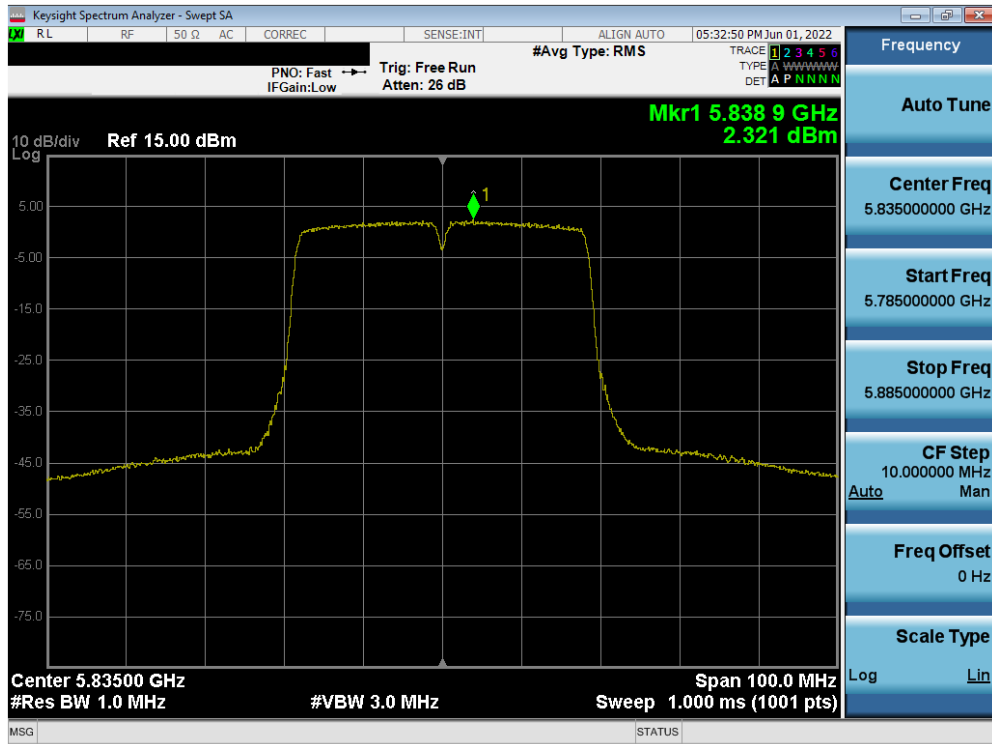


Plot 7-359. Power Spectral Density ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

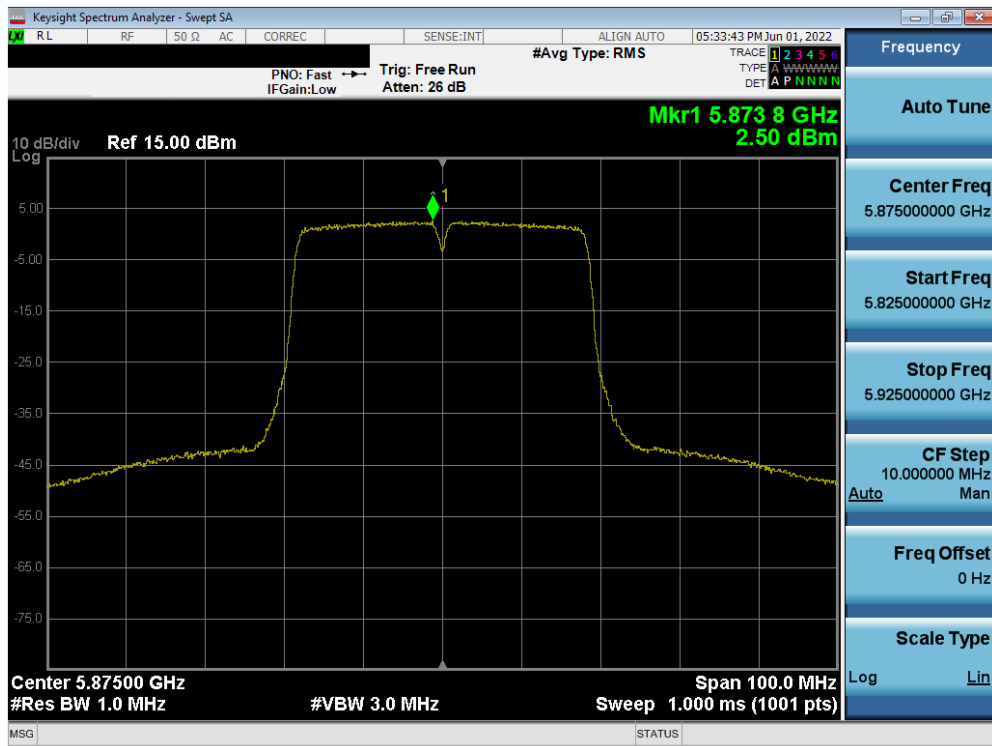


Plot 7-360. Power Spectral Density ANT2 (40MHz BW 802.11n (UNII Band 4) – Ch. 175)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 221 of 304 |

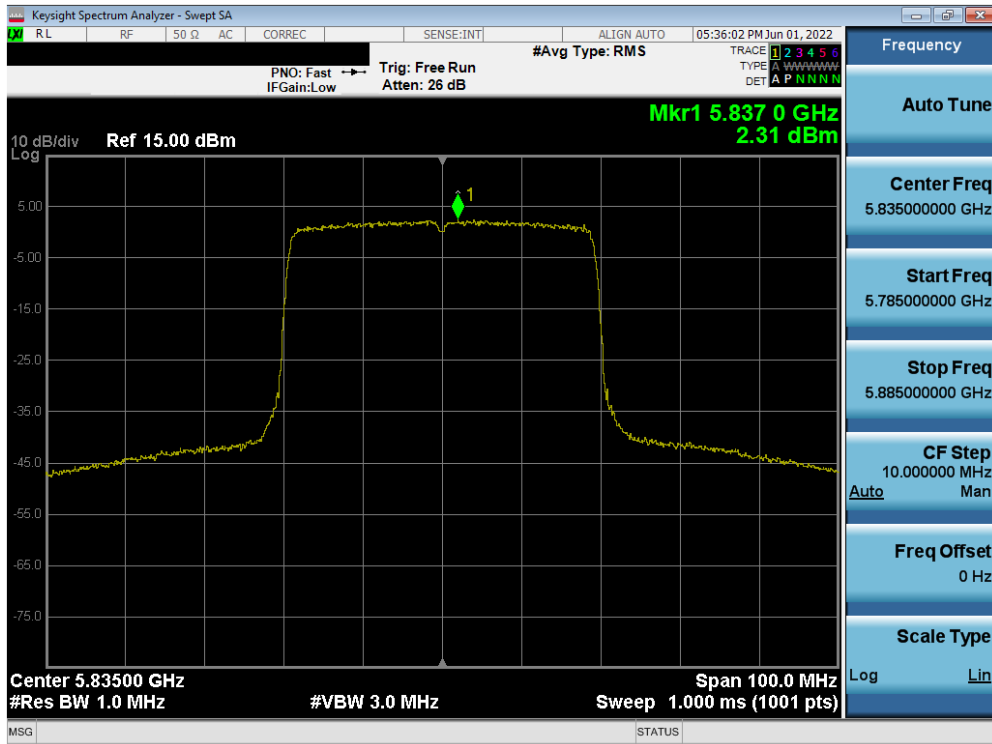


Plot 7-361. Power Spectral Density ANT2 (40MHz BW 802.11ac (UNII Band 3/4) – Ch. 167)

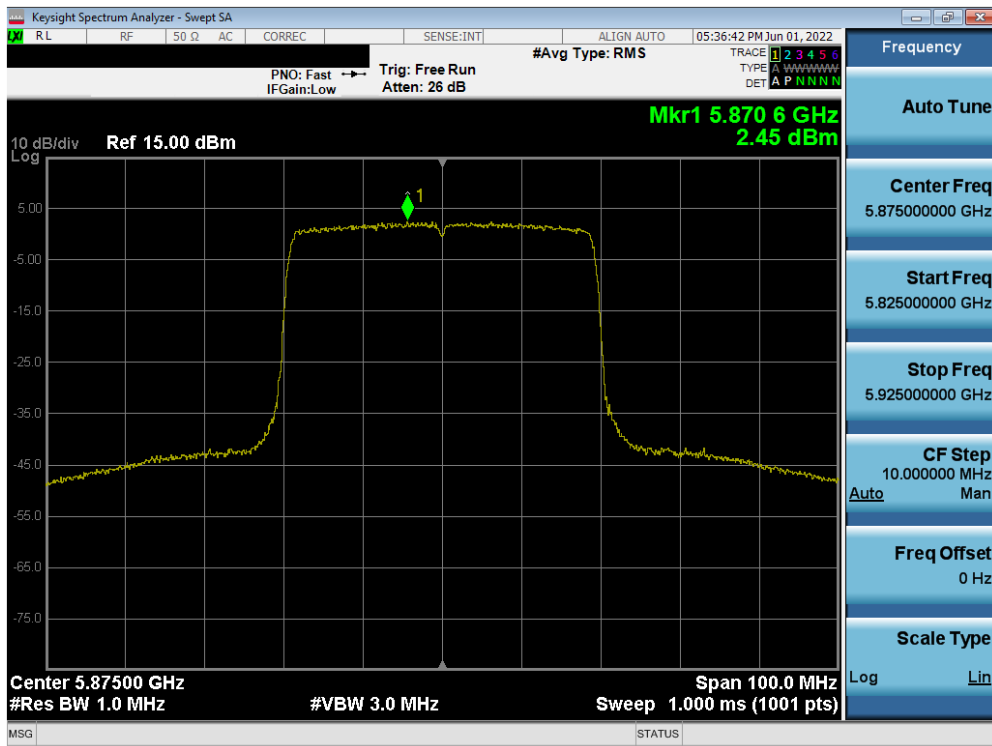


Plot 7-362. Power Spectral Density ANT2 (40MHz BW 802.11ac (UNII Band 4) – Ch. 175)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 222 of 304 |

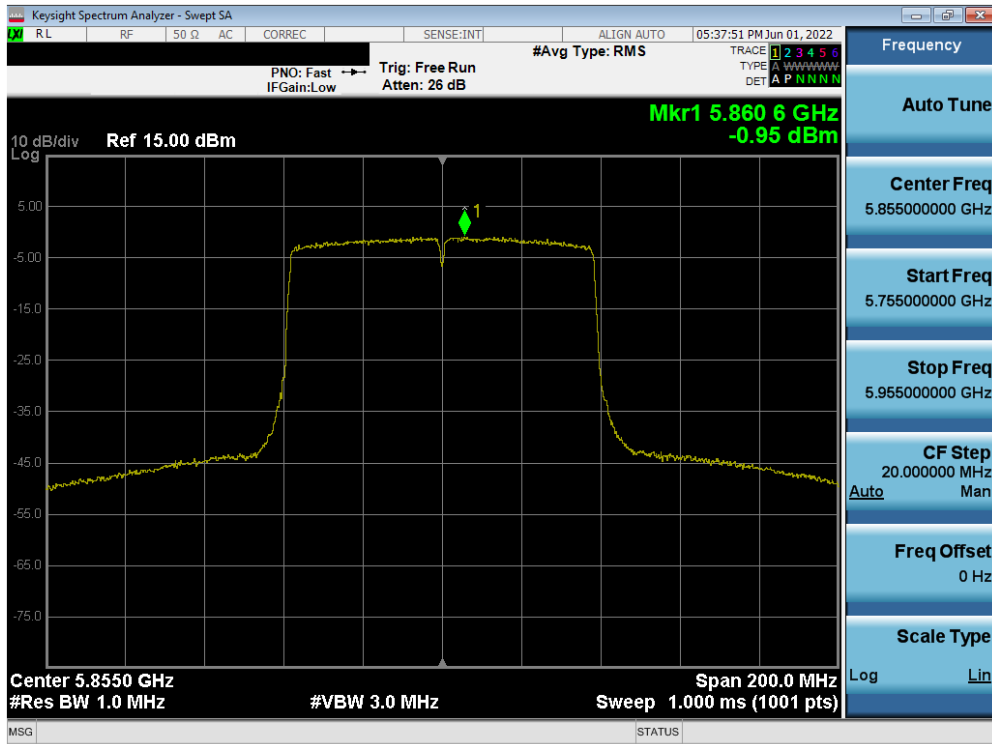


Plot 7-363. Power Spectral Density ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

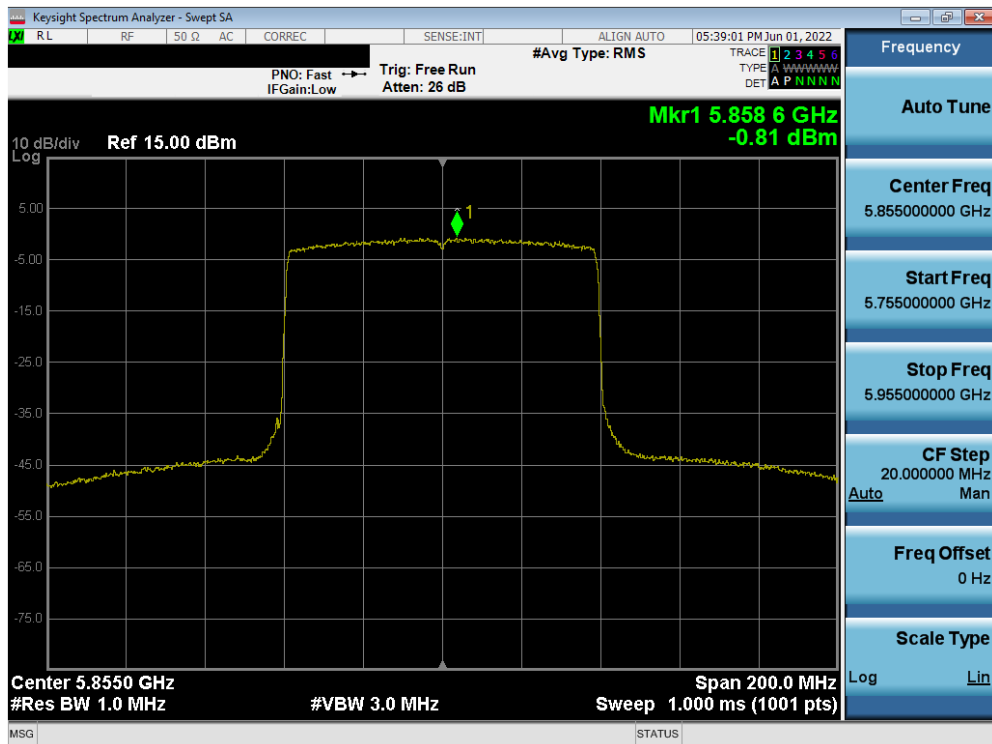


Plot 7-364. Power Spectral Density ANT2 (40MHz BW 802.11ax (UNII Band 4) – Ch. 175)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 223 of 304 |

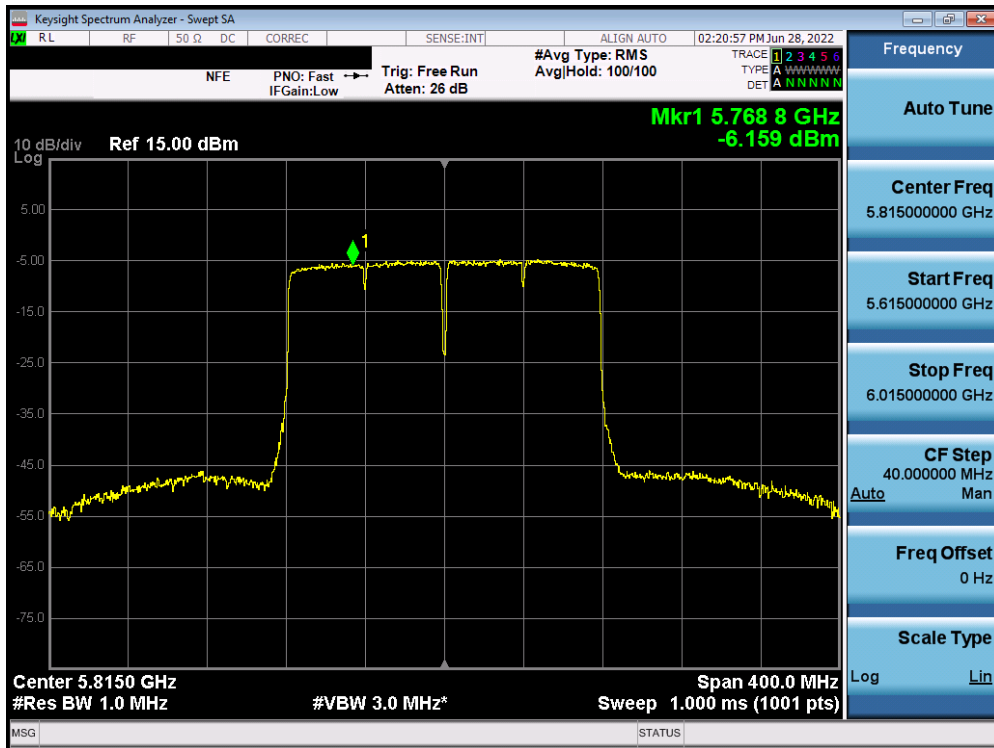


Plot 7-365. Power Spectral Density ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

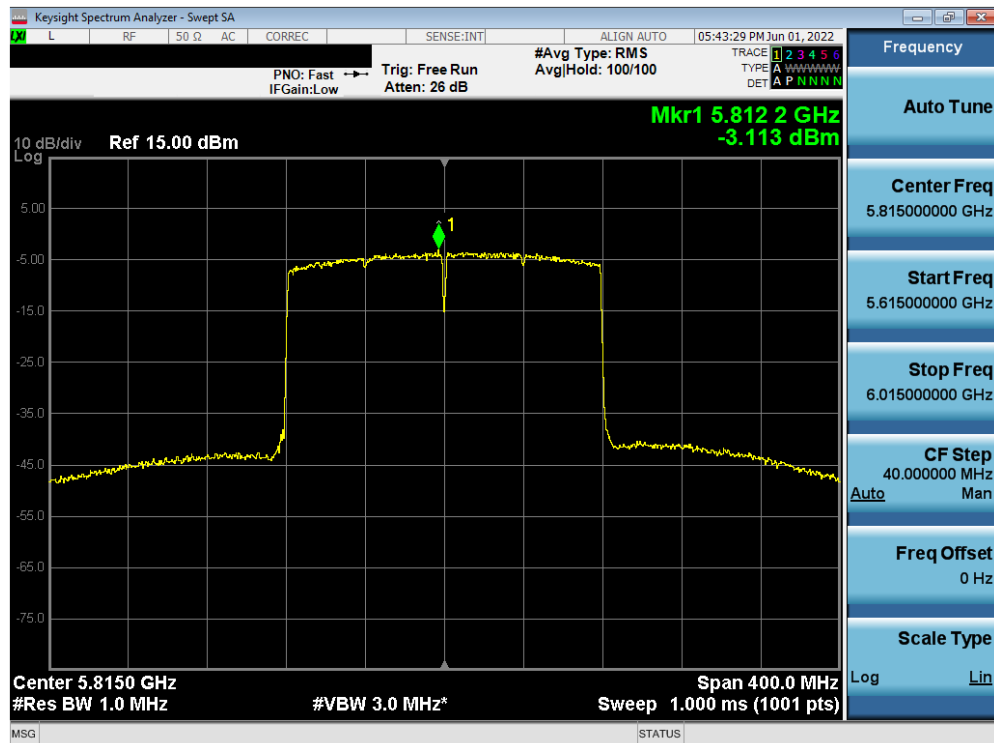


Plot 7-366. Power Spectral Density ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 224 of 304 |



Plot 7-367. Power Spectral Density ANT2 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)



Plot 7-368. Power Spectral Density ANT2 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 225 of 304 |

Summed MIMO Power Spectral Density Measurements

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Summed MIMO Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|-----------|-----------------|-------------|------------------|------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | a | 6 | 6.15 | 6.45 | 9.31 | 11.0 | -1.69 |
| | 5200 | 40 | a | 6 | 5.93 | 6.47 | 9.22 | 11.0 | -1.78 |
| | 5240 | 48 | a | 6 | 5.66 | 5.89 | 8.79 | 11.0 | -2.21 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.82 | 6.35 | 9.60 | 11.0 | -1.40 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 5.72 | 6.46 | 9.12 | 11.0 | -1.88 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 5.82 | 6.07 | 8.96 | 11.0 | -2.04 |
| | 5180 | 36 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.17 | 4.02 | 7.64 | 11.0 | -3.36 |
| | 5200 | 40 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.03 | 4.38 | 7.73 | 11.0 | -3.27 |
| | 5240 | 48 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.87 | 3.40 | 7.21 | 11.0 | -3.79 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 2.32 | 0.91 | 4.68 | 11.0 | -6.32 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 2.16 | 0.94 | 4.60 | 11.0 | -6.40 |
| | 5190 | 38 | ax (40MHz) | 13.5/15 (MCS0) | 1.96 | 0.88 | 4.46 | 11.0 | -6.54 |
| | 5230 | 46 | ax (40MHz) | 13.5/15 (MCS0) | 1.66 | 0.47 | 4.12 | 11.0 | -6.88 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -6.28 | -1.81 | -0.48 | 11.0 | -11.48 |
| 5210 | 42 | ax (80MHz) | 29.3/32.5 (MCS0) | -0.52 | -1.52 | 2.02 | 11.0 | -8.98 | |
| Band 1/2A | 5250 | 50 | ac (160MHz) | 58.5/65 (MCS0) | -3.62 | -3.69 | -0.64 | 11.0 | -11.64 |
| | 5250 | 50 | ax (160MHz) | 58.5/65 (MCS0) | -6.96 | -3.54 | -1.91 | 11.0 | -12.91 |
| Band 2A | 5260 | 52 | a | 6 | 5.41 | 5.64 | 8.54 | 11.0 | -2.46 |
| | 5280 | 56 | a | 6 | 5.51 | 5.31 | 8.42 | 11.0 | -2.58 |
| | 5320 | 64 | a | 6 | 5.31 | 5.45 | 8.39 | 11.0 | -2.61 |
| | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS0) | 5.78 | 6.45 | 9.14 | 11.0 | -1.86 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS0) | 5.99 | 5.61 | 8.81 | 11.0 | -2.19 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 5.23 | 6.29 | 8.81 | 11.0 | -2.19 |
| | 5260 | 52 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.21 | 3.45 | 6.86 | 11.0 | -4.14 |
| | 5280 | 56 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.60 | 3.41 | 7.06 | 11.0 | -3.94 |
| | 5320 | 64 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.73 | 3.05 | 6.98 | 11.0 | -4.02 |
| | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 2.02 | 0.81 | 4.47 | 11.0 | -6.53 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 2.29 | 0.64 | 4.55 | 11.0 | -6.45 |
| | 5270 | 54 | ax (40MHz) | 13.5/15 (MCS0) | 2.05 | 1.18 | 4.65 | 11.0 | -6.35 |
| | 5310 | 62 | ax (40MHz) | 13.5/15 (MCS0) | 2.04 | 0.74 | 4.45 | 11.0 | -6.55 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.12 | -1.99 | 0.96 | 11.0 | -10.04 |
| 5290 | 58 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.09 | -2.32 | 1.35 | 11.0 | -9.65 | |
| Band 2C | 5500 | 100 | a | 6 | 5.90 | 5.64 | 8.78 | 11.0 | -2.22 |
| | 5600 | 120 | a | 6 | 6.08 | 5.99 | 9.05 | 11.0 | -1.95 |
| | 5720 | 144 | a | 6 | 5.97 | 6.00 | 9.00 | 11.0 | -2.00 |
| | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 5.45 | 5.66 | 8.57 | 11.0 | -2.43 |
| | 5600 | 120 | n (20MHz) | 6.5/7.2 (MCS0) | 5.94 | 6.44 | 9.21 | 11.0 | -1.79 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS0) | 5.93 | 6.05 | 9.00 | 11.0 | -2.00 |
| | 5500 | 100 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.51 | 2.92 | 6.80 | 11.0 | -4.20 |
| | 5600 | 120 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.87 | 3.84 | 7.40 | 11.0 | -3.60 |
| | 5720 | 144 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.66 | 3.91 | 7.31 | 11.0 | -3.69 |
| | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | 1.95 | 1.07 | 4.54 | 11.0 | -6.46 |
| | 5590 | 118 | n (40MHz) | 13.5/15 (MCS0) | 2.24 | 1.05 | 4.70 | 11.0 | -6.30 |
| | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 2.07 | 1.16 | 4.65 | 11.0 | -6.35 |
| | 5510 | 102 | ax (40MHz) | 13.5/15 (MCS0) | 2.11 | 0.28 | 4.30 | 11.0 | -6.70 |
| | 5590 | 118 | ax (40MHz) | 13.5/15 (MCS0) | 2.14 | 0.80 | 4.53 | 11.0 | -6.47 |
| | 5710 | 142 | ax (40MHz) | 13.5/15 (MCS0) | 2.37 | 0.98 | 4.74 | 11.0 | -6.26 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.22 | -2.22 | 0.79 | 11.0 | -10.21 |
| | 5610 | 122 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.18 | -1.83 | 1.01 | 11.0 | -9.99 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.60 | -1.76 | 0.85 | 11.0 | -10.15 |
| 5530 | 106 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.19 | -2.58 | 1.18 | 11.0 | -9.82 | |
| 5610 | 122 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.29 | -2.09 | 1.34 | 11.0 | -9.66 | |
| 5690 | 138 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.12 | -1.86 | 1.54 | 11.0 | -9.46 | |
| 5570 | 114 | ac (160MHz) | 58.5/65 (MCS0) | -3.37 | -4.20 | -0.75 | 11.0 | -11.75 | |
| 5570 | 114 | ax (160MHz) | 58.5/65 (MCS0) | -6.50 | -3.94 | -2.02 | 11.0 | -13.02 | |

Table 7-29. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 226 of 304 |

| | 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] |
|--------|-----------------|-------------|-------------|------------------|------------------------------|------------------------------|---------------------------------|--|-------------|
| Band 3 | 5745 | 149 | a | 6 | 1.72 | 2.54 | 5.16 | 30.0 | -24.84 |
| | 5785 | 157 | a | 6 | 3.02 | 3.26 | 6.15 | 30.0 | -23.85 |
| | 5825 | 165 | a | 6 | 2.87 | 3.07 | 5.98 | 30.0 | -24.02 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 3.21 | 3.40 | 6.32 | 30.0 | -23.68 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 2.99 | 3.58 | 6.31 | 30.0 | -23.69 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 2.86 | 3.14 | 6.01 | 30.0 | -23.99 |
| | 5745 | 149 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.81 | 1.03 | 4.45 | 30.0 | -25.55 |
| | 5785 | 157 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.86 | 1.09 | 4.50 | 30.0 | -25.50 |
| | 5825 | 165 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.27 | 1.22 | 4.79 | 30.0 | -25.21 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | -0.43 | -1.86 | 1.92 | 30.0 | -28.08 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | -0.62 | -1.71 | 1.88 | 30.0 | -28.12 |
| | 5755 | 151 | ax (40MHz) | 13.5/15 (MCS0) | -1.11 | -2.29 | 1.35 | 30.0 | -28.65 |
| | 5795 | 159 | ax (40MHz) | 13.5/15 (MCS0) | -0.96 | -1.97 | 1.57 | 30.0 | -28.43 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -5.78 | -3.70 | -1.61 | 30.0 | -31.61 |
| | 5775 | 155 | ax (80MHz) | 29.3/32.5 (MCS0) | -5.73 | -4.79 | -2.22 | 30.0 | -32.22 |

Table 7-30. Band 3 MIMO Conducted Power Spectral Density Measurements

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenna-1 Power Density [dBm/MHz] | Antenna-2 Power Density [dBm/MHz] | MIMO Summed Power Density [dBm/MHz] | Directional Antenna Gain [dBi] | EIRP Power Density [dBm/MHz] | Max EIRP Power Density [dBm/MHz] | Margin [dB] |
|----------|-----------------|-------------|-------------|------------------|-----------------------------------|-----------------------------------|-------------------------------------|--------------------------------|------------------------------|----------------------------------|-------------|
| Band 3/4 | 5845 | 169 | a | 6 | 6.38 | 6.65 | 9.53 | -2.48 | 7.05 | 14.00 | -6.95 |
| Band 4 | 5865 | 173 | a | 6 | 6.36 | 6.80 | 9.60 | -2.48 | 7.12 | 14.00 | -6.88 |
| | 5885 | 177 | a | 6 | 6.67 | 6.75 | 9.72 | -2.48 | 7.25 | 14.00 | -6.75 |
| Band 3/4 | 5845 | 169 | n (20MHz) | 6.5/7.2 (MCS0) | 5.91 | 6.22 | 9.08 | -2.48 | 6.60 | 14.00 | -7.40 |
| Band 4 | 5865 | 173 | n (20MHz) | 6.5/7.2 (MCS0) | 5.89 | 6.43 | 9.18 | -2.48 | 6.70 | 14.00 | -7.30 |
| | 5885 | 177 | n (20MHz) | 6.5/7.2 (MCS0) | 6.18 | 6.43 | 9.32 | -2.48 | 6.84 | 14.00 | -7.16 |
| Band 3/4 | 5845 | 169 | ac (20MHz) | 6.5/7.2 (MCS0) | 5.94 | 6.40 | 9.19 | -2.48 | 6.71 | 14.00 | -7.29 |
| Band 4 | 5865 | 173 | ac (20MHz) | 6.5/7.2 (MCS0) | 5.91 | 6.38 | 9.16 | -2.48 | 6.69 | 14.00 | -7.31 |
| | 5885 | 177 | ac (20MHz) | 6.5/7.2 (MCS0) | 6.38 | 6.41 | 9.41 | -2.48 | 6.93 | 14.00 | -7.07 |
| Band 3/4 | 5845 | 169 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.98 | 4.88 | 7.94 | -2.48 | 5.47 | 14.00 | -8.53 |
| Band 4 | 5865 | 173 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.25 | 4.77 | 8.03 | -2.48 | 5.55 | 14.00 | -8.45 |
| | 5885 | 177 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.32 | 4.85 | 8.10 | -2.48 | 5.63 | 14.00 | -8.37 |
| Band 3/4 | 5835 | 167 | n (40MHz) | 13.5/15 (MCS0) | 2.50 | 2.75 | 5.64 | -2.48 | 3.16 | 14.00 | -10.84 |
| Band 4 | 5875 | 175 | n (40MHz) | 13.5/15 (MCS0) | 2.52 | 2.59 | 5.57 | -2.48 | 3.09 | 14.00 | -10.91 |
| Band 3/4 | 5835 | 167 | ac (40MHz) | 13.5/15 (MCS0) | 2.50 | 2.32 | 5.42 | -2.48 | 2.95 | 14.00 | -11.05 |
| Band 4 | 5875 | 175 | ac (40MHz) | 13.5/15 (MCS0) | 2.63 | 2.50 | 5.58 | -2.48 | 3.10 | 14.00 | -10.90 |
| Band 3/4 | 5835 | 167 | ax (40MHz) | 13.5/15 (MCS0) | 2.23 | 2.31 | 5.28 | -2.48 | 2.81 | 14.00 | -11.19 |
| Band 4 | 5875 | 175 | ax (40MHz) | 13.5/15 (MCS0) | 2.24 | 2.45 | 5.36 | -2.48 | 2.88 | 14.00 | -11.12 |
| Band 3/4 | 5855 | 171 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.97 | -0.95 | 1.58 | -2.48 | -0.90 | 14.00 | -14.90 |
| | 5855 | 171 | ax (80MHz) | 29.3/32.5 (MCS0) | -0.86 | -0.81 | 2.18 | -2.48 | -0.30 | 14.00 | -14.30 |
| | 5815 | 163 | ac (160MHz) | 58.5/65 (MCS0) | -6.78 | -6.16 | -3.45 | -2.48 | -5.92 | 14.00 | -19.92 |
| | 5815 | 163 | ax (160MHz) | 58.5/65 (MCS0) | -5.41 | -3.11 | -1.10 | -2.48 | -3.58 | 14.00 | -17.58 |

Table 7-31. Band 4 MIMO e.i.r.p Power Spectral Density Measurements

| | | | |
|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 227 of 304 |



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 6.82 dBm for Antenna 1 and 6.35 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(6.82 \text{ dBm} + 6.35 \text{ dBm}) = (4.81 \text{ mW} + 4.32 \text{ mW}) = 9.13 \text{ mW} = 9.60 \text{ dBm}$$

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 9.60 dBm with directional gain of -2.31 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$9.60 \text{ dBm} + -2.31 \text{ dBi} = 7.29 \text{ dBm}$$

| | | | |
|--|---------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 228 of 304 |

V9.0 02/01/2019

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, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-32 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-32. 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)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)

| FCC ID: A3LSMF721U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|--|-------------------------------------|---------------------------------------|--|-----------------------------------|
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | | Page 229 of 304 |

V9.0 02/01/2019

6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

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

Test Setup

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

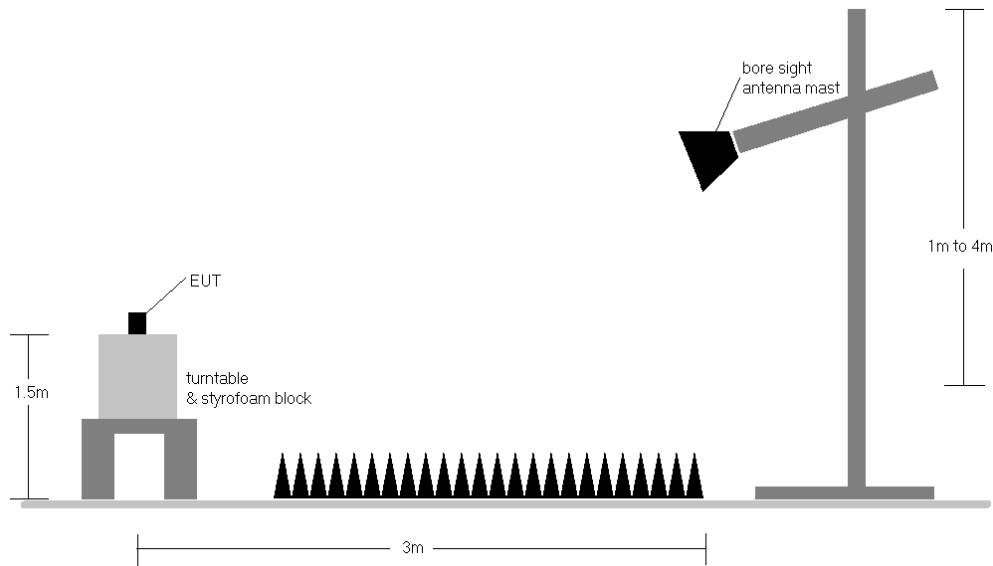


Figure 7-5. Test Instrument & Measurement Setup

| | | | |
|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 230 of 304 |

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 7-32.
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 7-32. 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

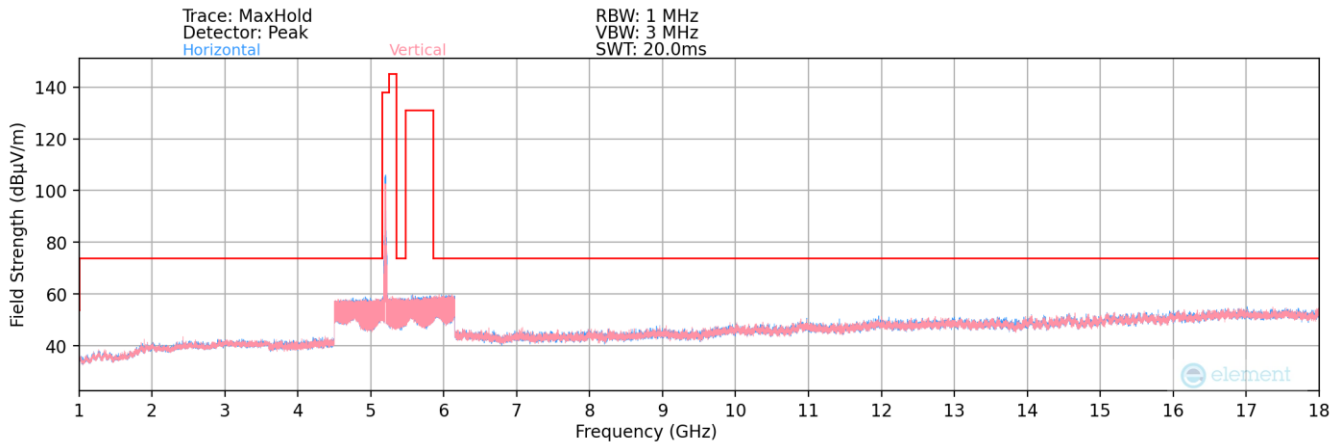
- Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBµV/m] – Limit [dBµV/m]

Radiated Band Edge Measurement Offset

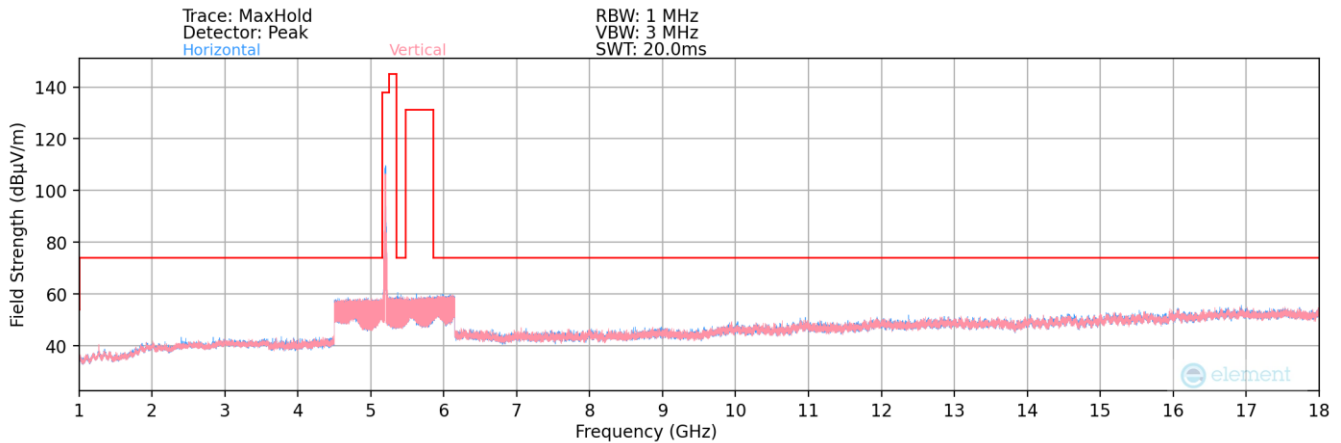
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Pre-amplifier Gain

| | | | |
|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 231 of 304 |

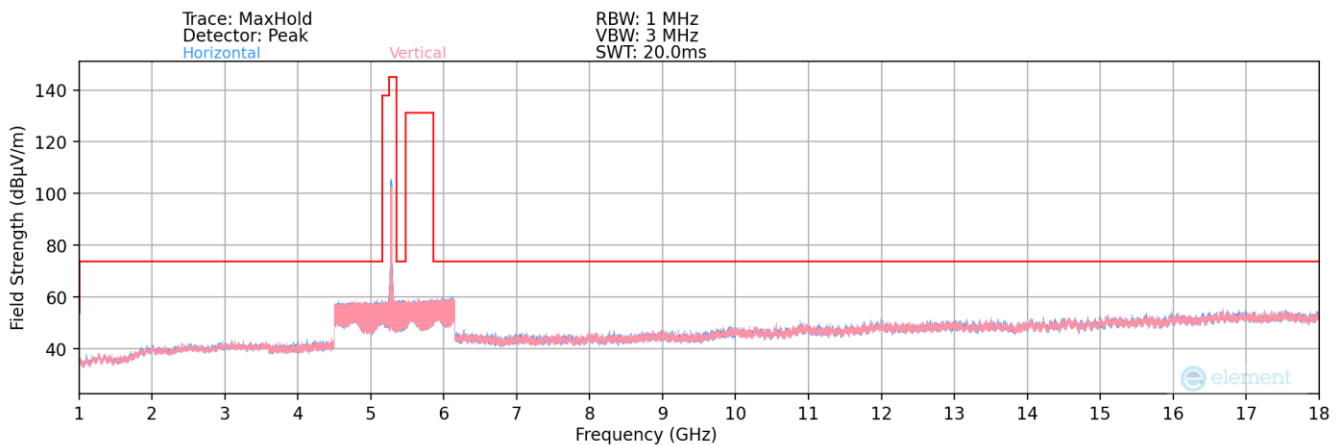
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-369. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40) – Closed

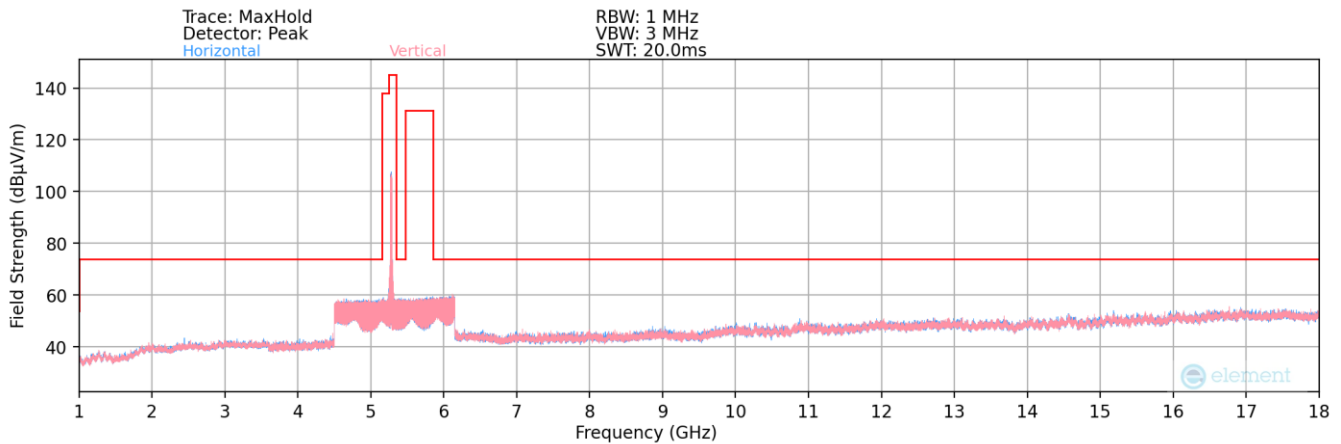


Plot 7-370. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40) – Half Open

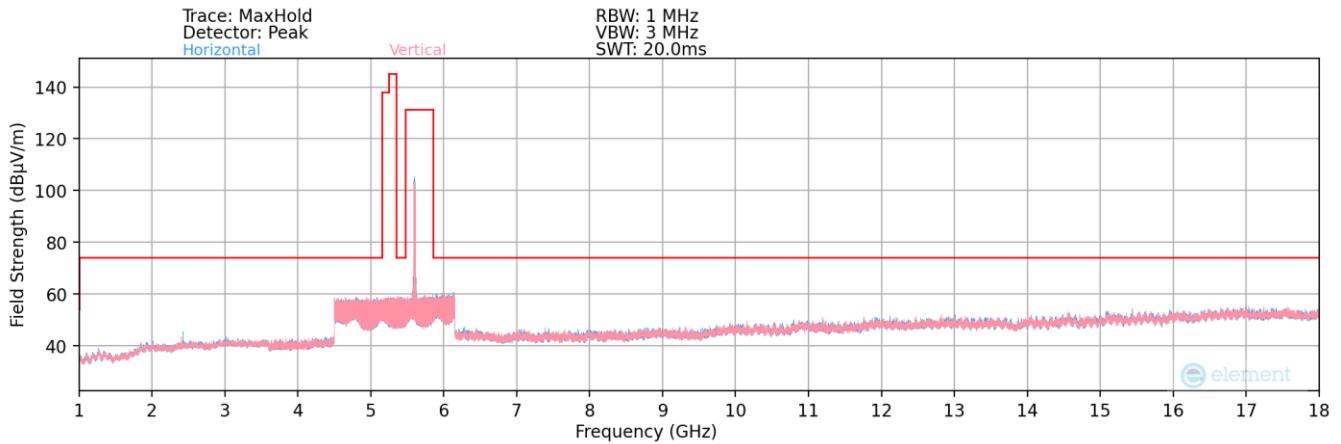


Plot 7-371. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56) – Closed

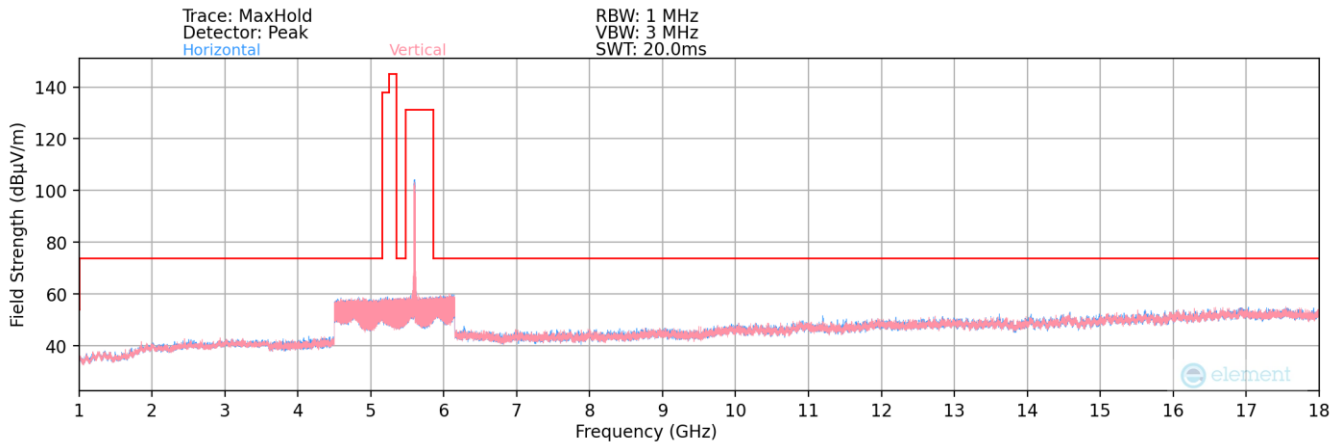
| | | | |
|--|---|-------------------------------|-----------------------------------|
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| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 232 of 304 |



Plot 7-372. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56) – Half Open

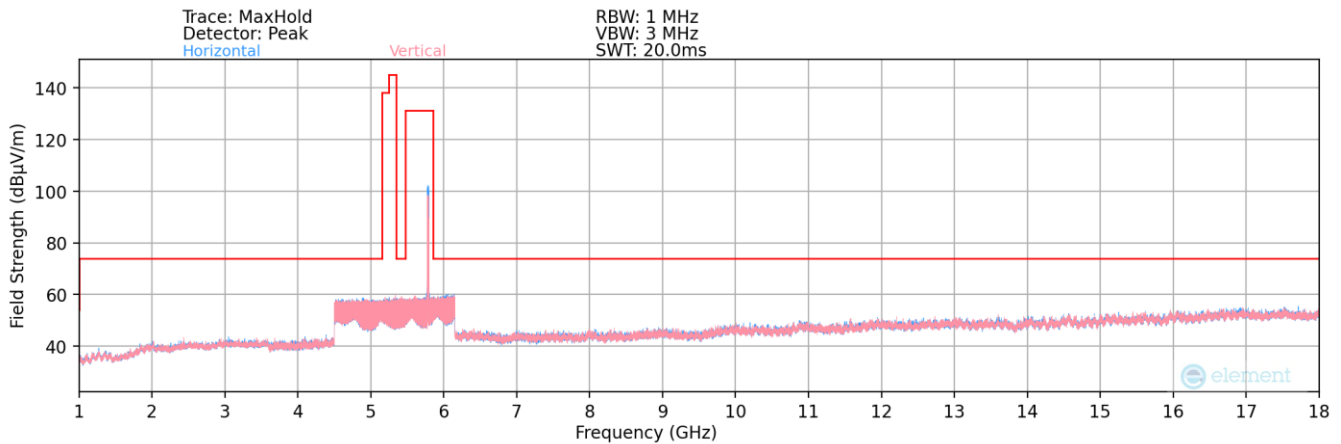


Plot 7-373. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120) – Closed

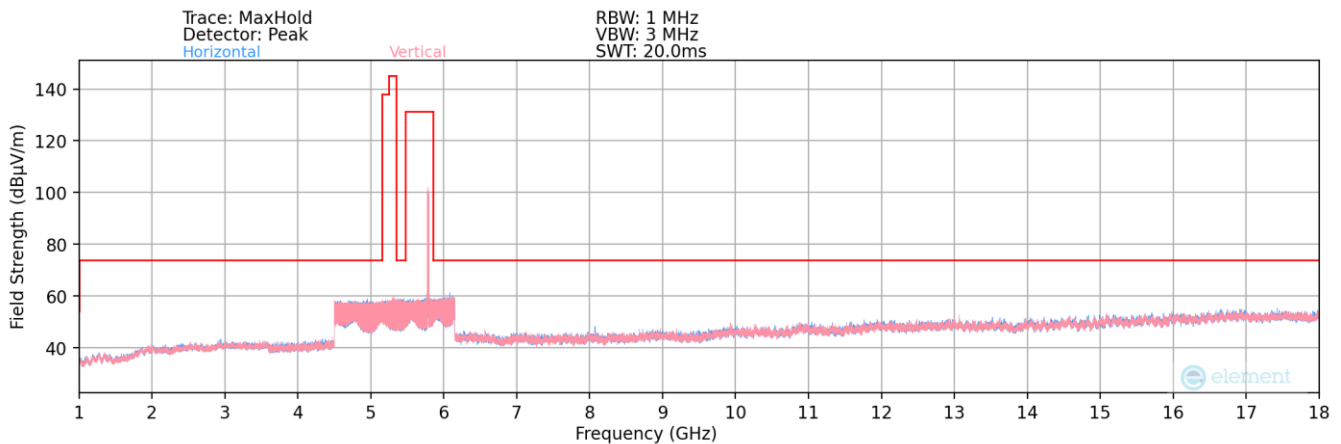


Plot 7-374. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120) – Half Open

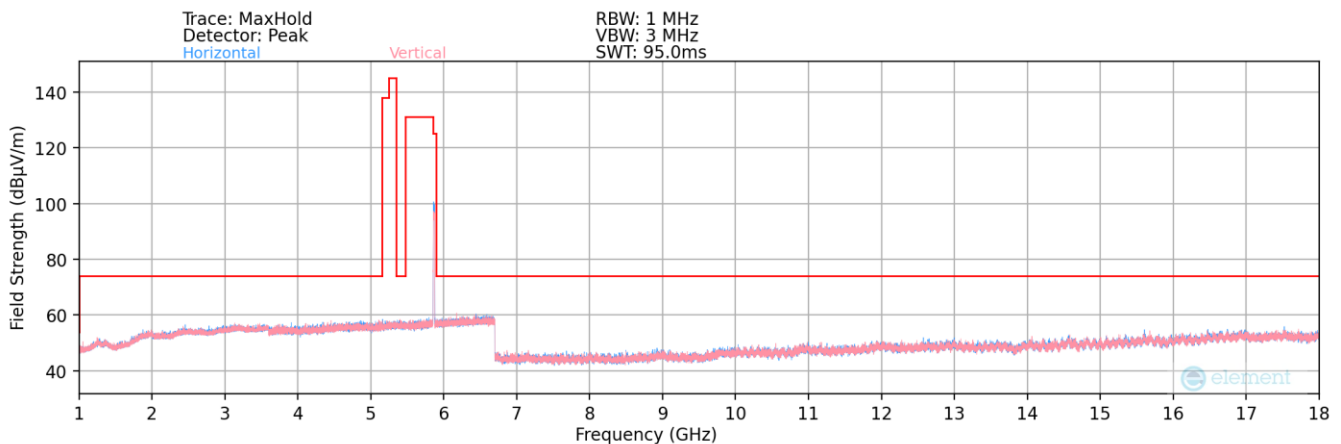
| | | | |
|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 233 of 304 |



Plot 7-375. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157) – Closed

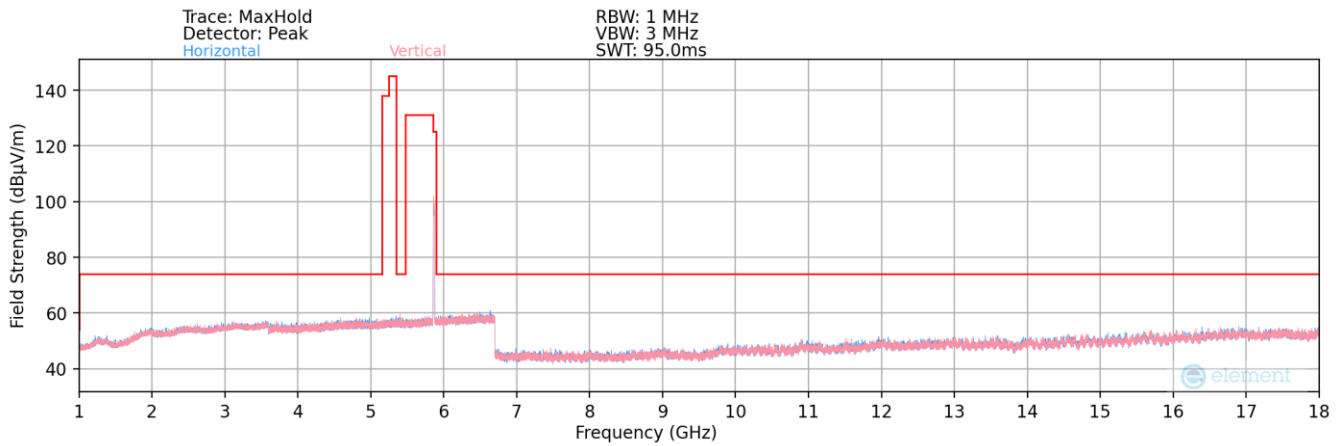


Plot 7-376. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157) – Half Open



Plot 7-377. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U4 Ch. 173) – Closed

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|--|-------------------------------------|---|--|-----------------------------------|
| FCC ID: A3LSMF721U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | | Page 234 of 304 |



Plot 7-378. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U4 Ch. 173) – Half Open

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|--|---|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2204080051-14-R1.A3L | Test Dates: 4/8/2022 – 7/12/2022 | EUT Type: Portable Handset | Page 235 of 304 |