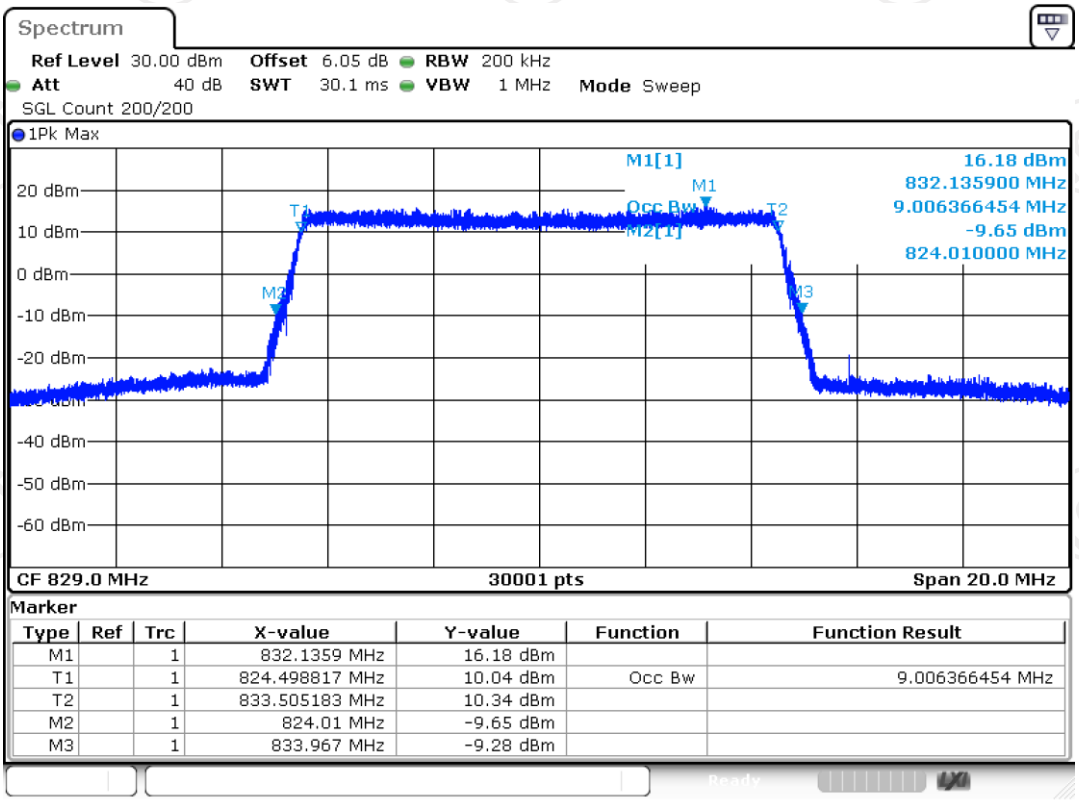
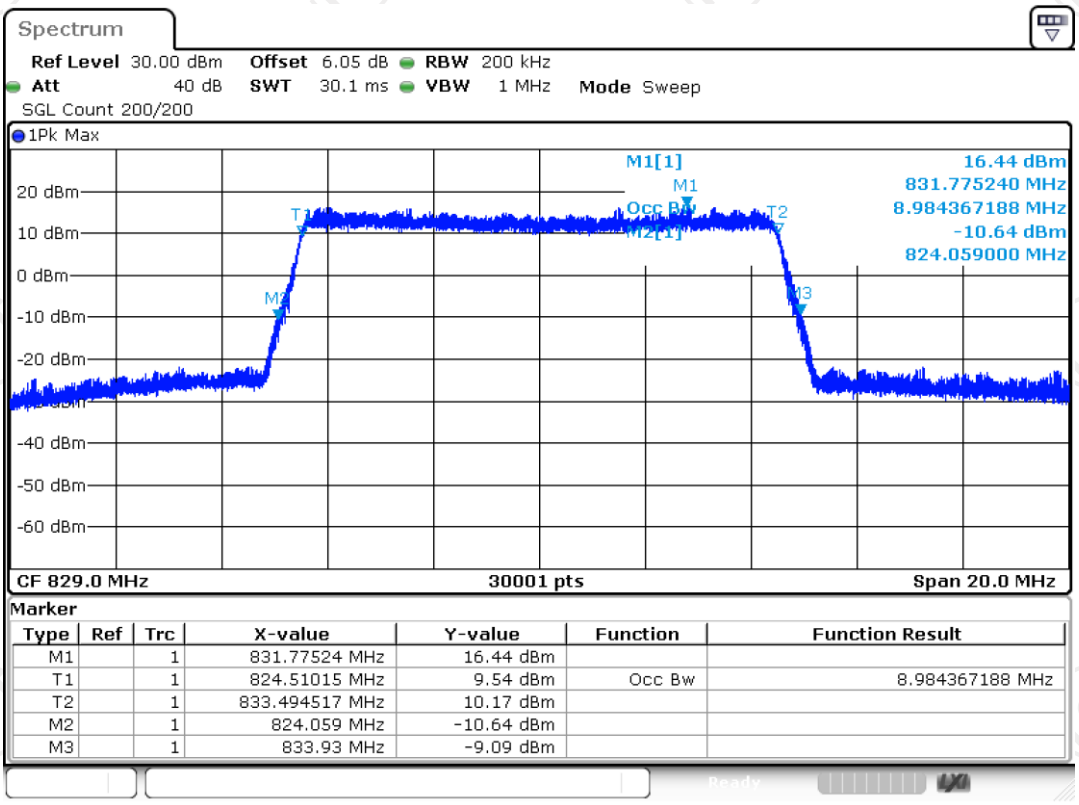
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



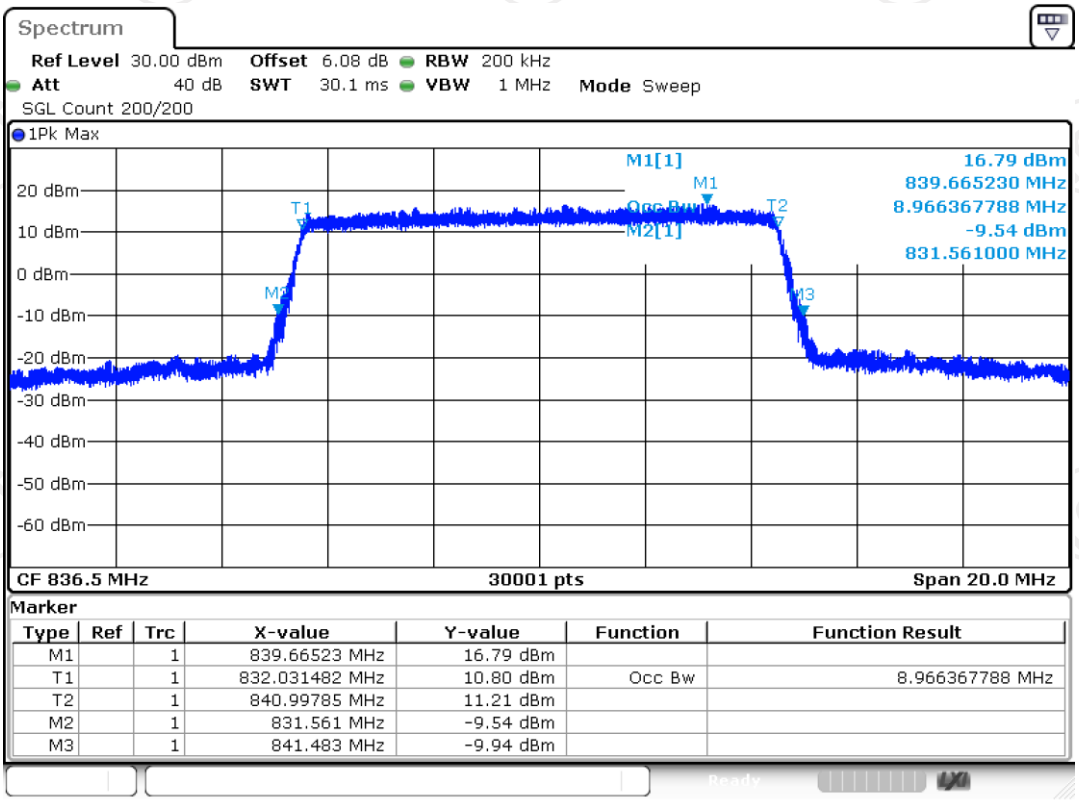

Date: 6.JUN.2023 11:40:05

Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0



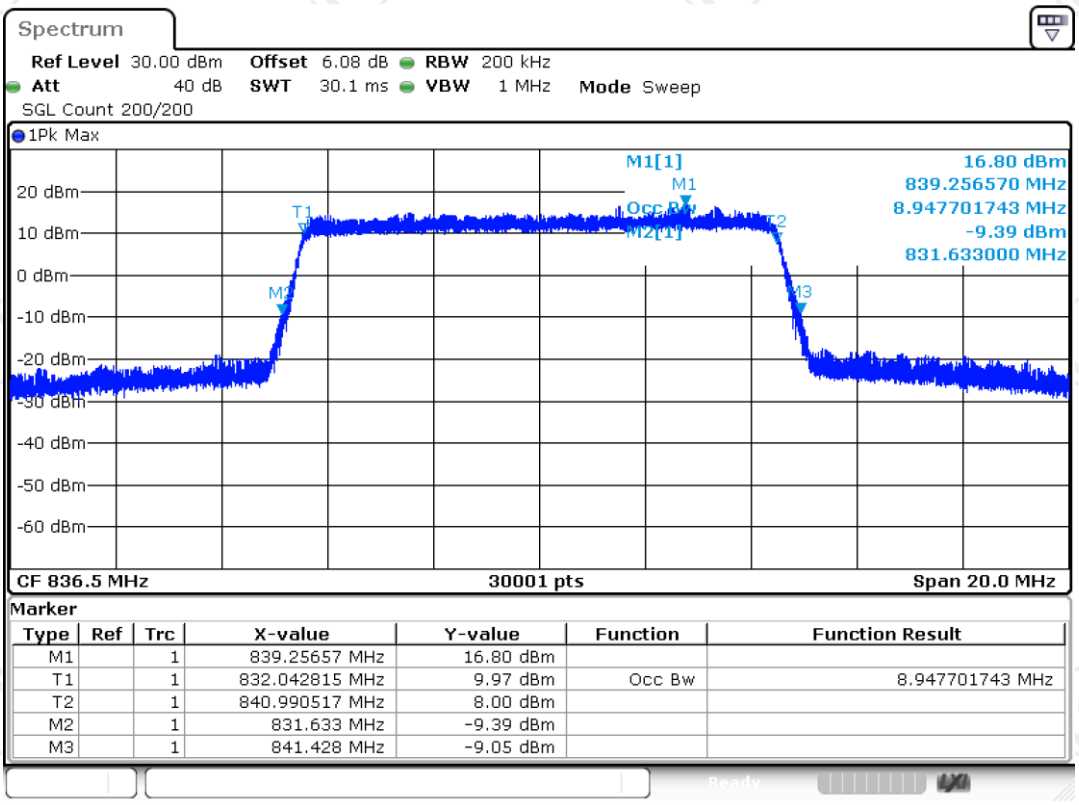

Date: 6.JUN.2023 11:40:23

Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0



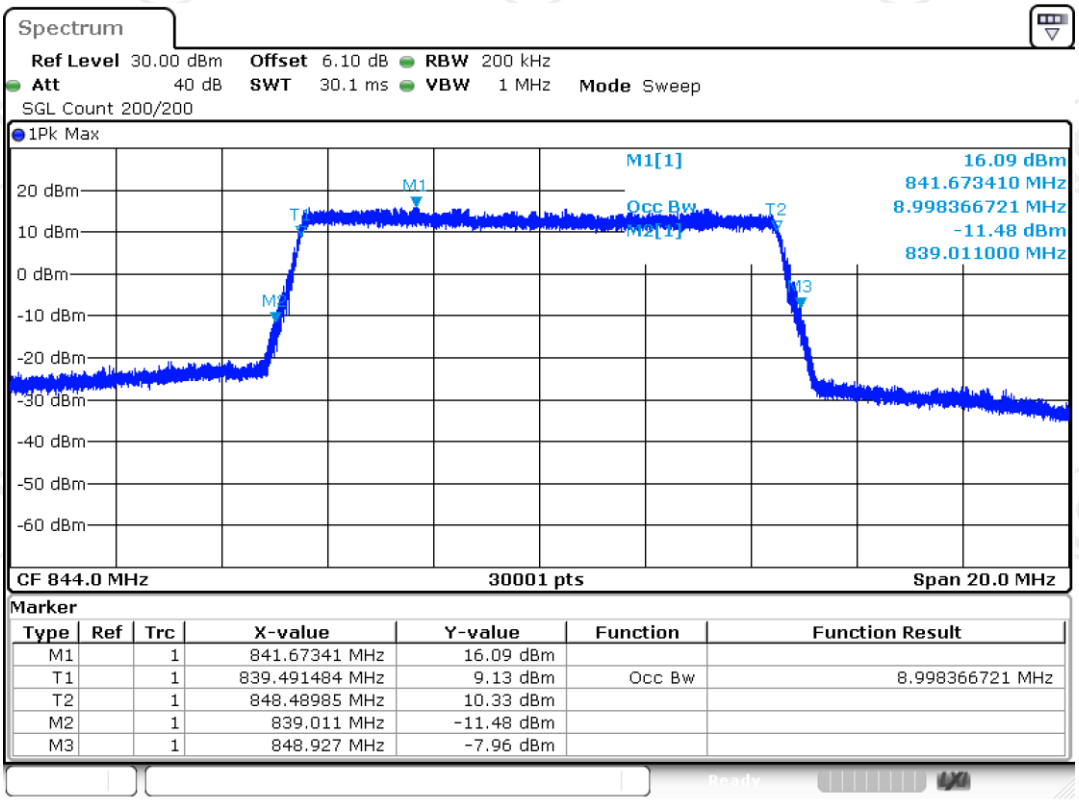

Date: 6.JUN.2023 11:40:41

Band5 16QAM BW=10MHz Channel=20525 RB Size=50 Position=#0



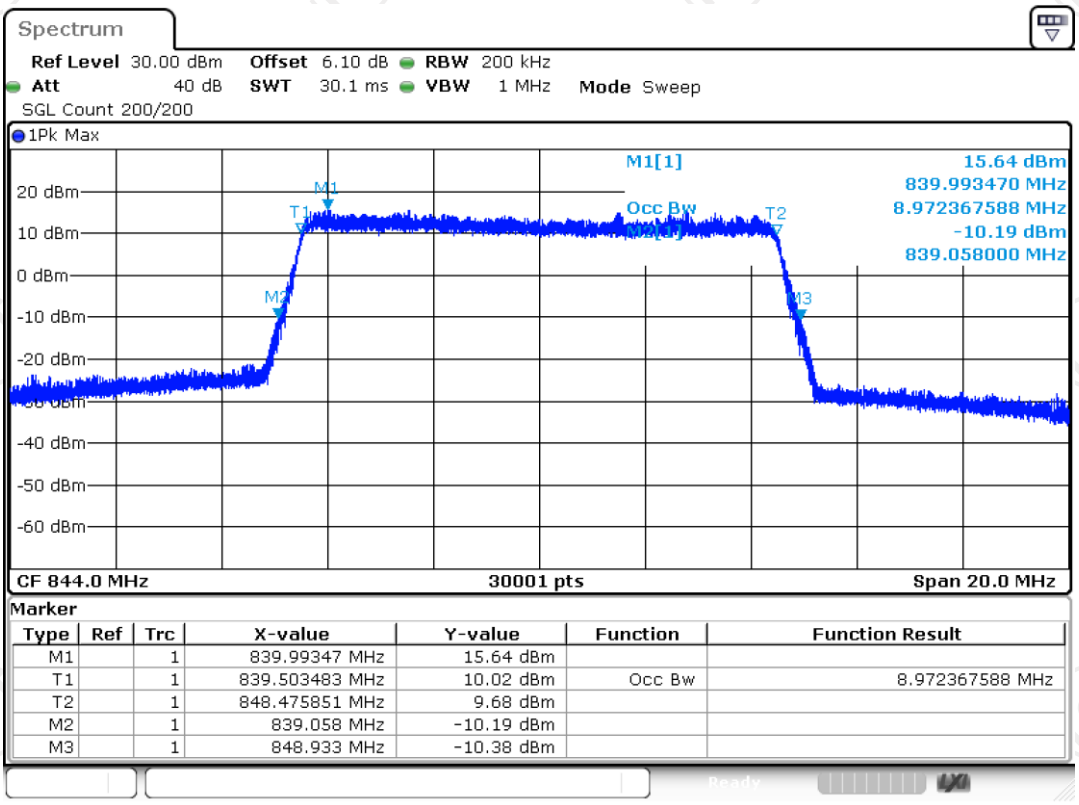

Date: 6.JUN.2023 11:40:59

Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0




Date: 6.JUN.2023 11:41:17

Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0




Date: 6.JUN.2023 11:41:35

## 5 Band edge

| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band5 | 1.4 | 20407 | 6 | #0 | QPSK | 824.00 | -33.85 | -13 | PASS |
| Band5 | 1.4 | 20407 | 6 | #0 | 16QAM | 823.99 | -34.84 | -13 | PASS |
| Band5 | 1.4 | 20643 | 6 | #0 | QPSK | 849.00 | -37.44 | -13 | PASS |
| Band5 | 1.4 | 20643 | 6 | #0 | 16QAM | 849.02 | -38.91 | -13 | PASS |
| Band5 | 3 | 20415 | 15 | #0 | QPSK | 824.00 | -25.18 | -13 | PASS |
| Band5 | 3 | 20415 | 15 | #0 | 16QAM | 824.00 | -27.56 | -13 | PASS |
| Band5 | 3 | 20635 | 15 | #0 | QPSK | 849.00 | -25.48 | -13 | PASS |
| Band5 | 3 | 20635 | 15 | #0 | 16QAM | 849.00 | -26.90 | -13 | PASS |
| Band5 | 5 | 20425 | 25 | #0 | QPSK | 824.00 | -30.66 | -13 | PASS |
| Band5 | 5 | 20425 | 25 | #0 | 16QAM | 824.00 | -28.72 | -13 | PASS |
| Band5 | 5 | 20625 | 25 | #0 | QPSK | 849.00 | -32.58 | -13 | PASS |
| Band5 | 5 | 20625 | 25 | #0 | 16QAM | 849.00 | -32.80 | -13 | PASS |
| Band5 | 10 | 20450 | 50 | #0 | QPSK | 824.00 | -31.26 | -13 | PASS |
| Band5 | 10 | 20450 | 50 | #0 | 16QAM | 823.98 | -33.23 | -13 | PASS |
| Band5 | 10 | 20600 | 50 | #0 | QPSK | 849.00 | -33.89 | -13 | PASS |
| Band5 | 10 | 20600 | 50 | #0 | 16QAM | 849.00 | -34.32 | -13 | PASS |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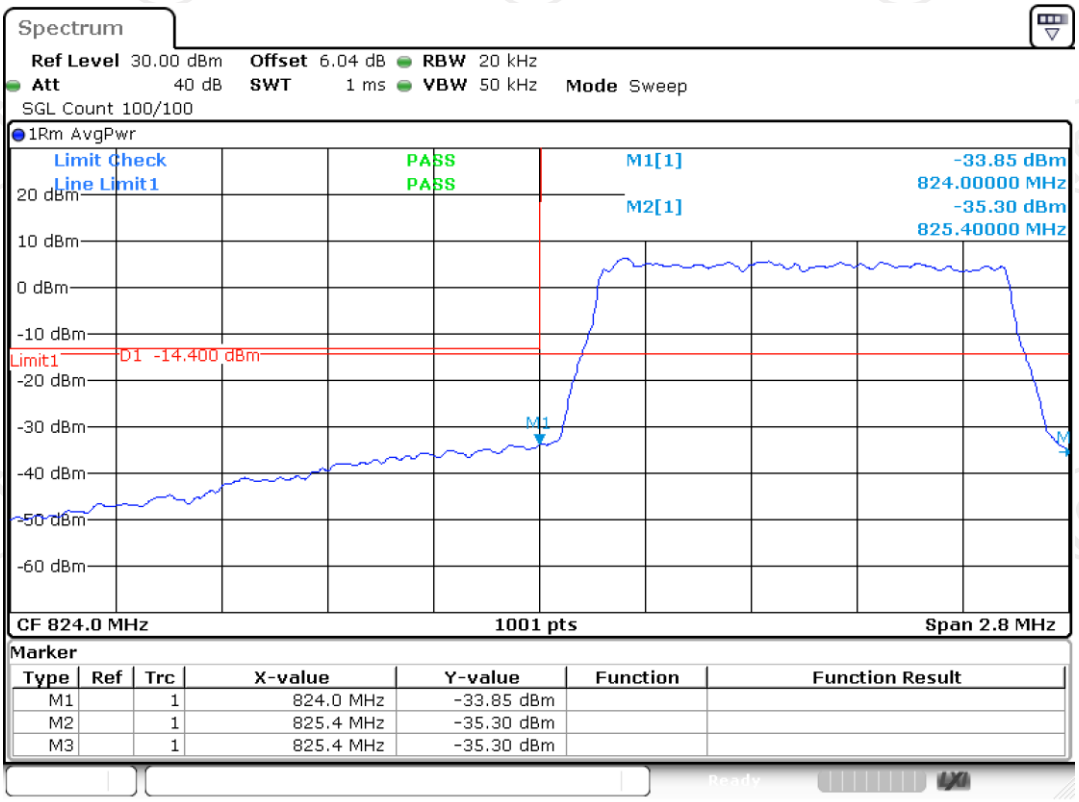
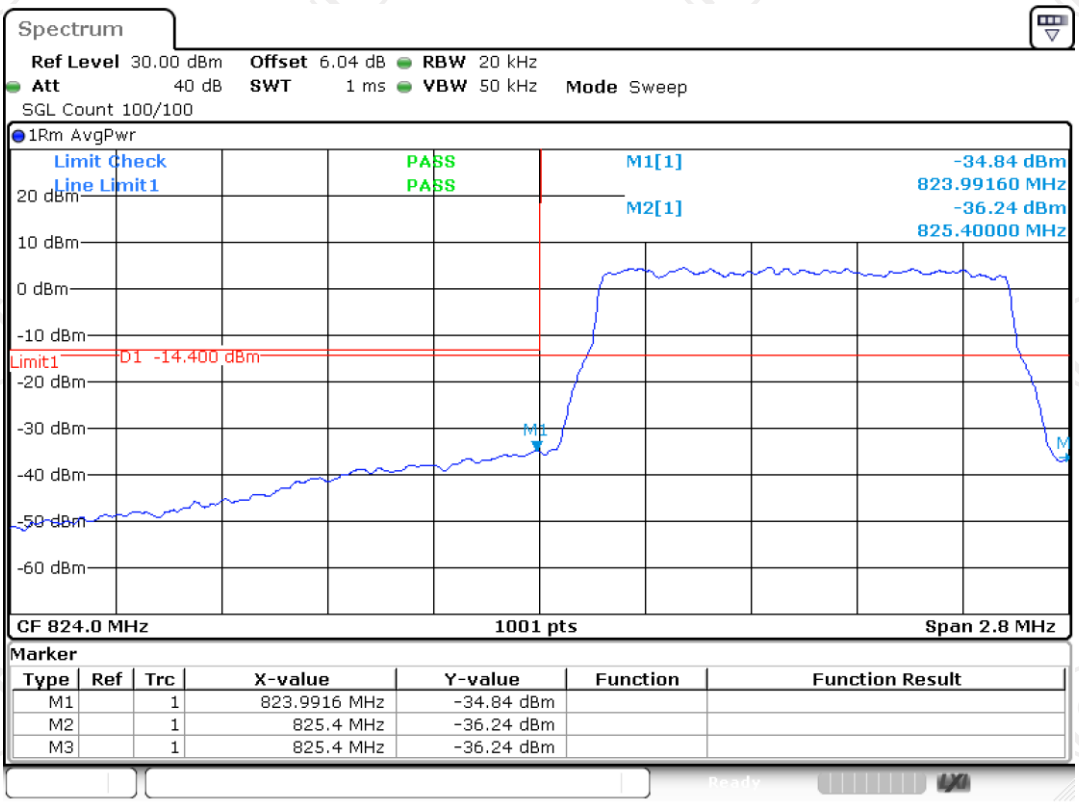
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



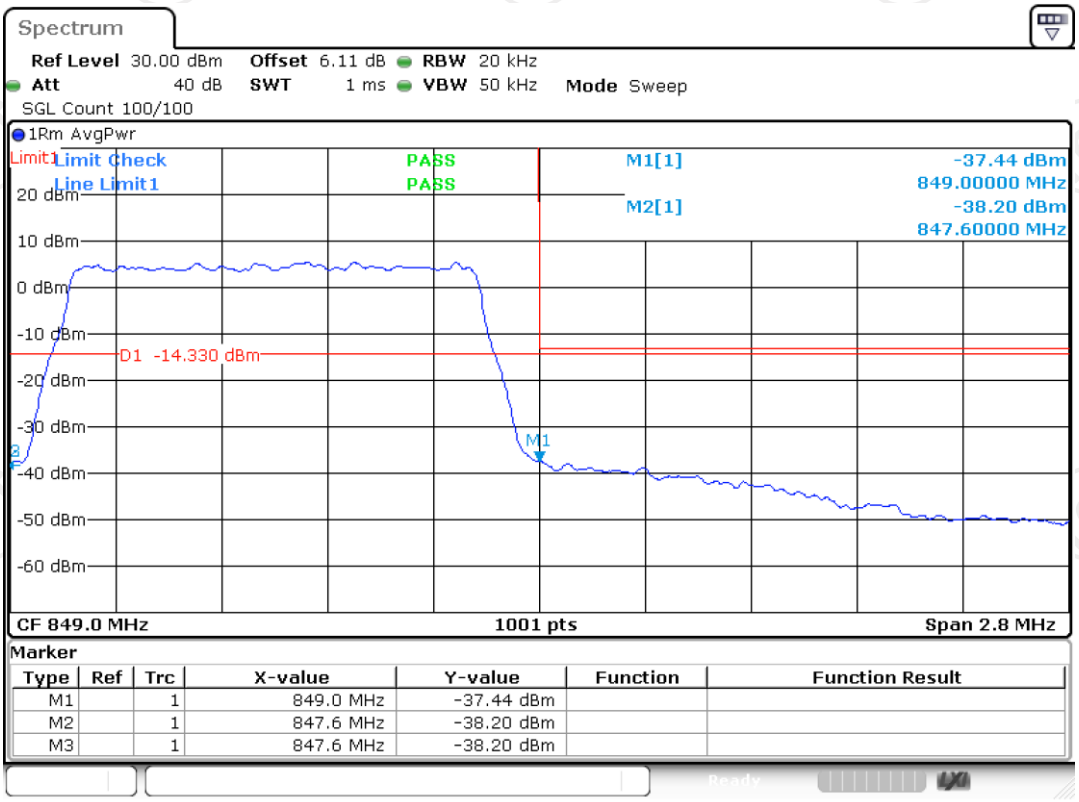

Date: 6.JUN.2023 11:41:42

Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0



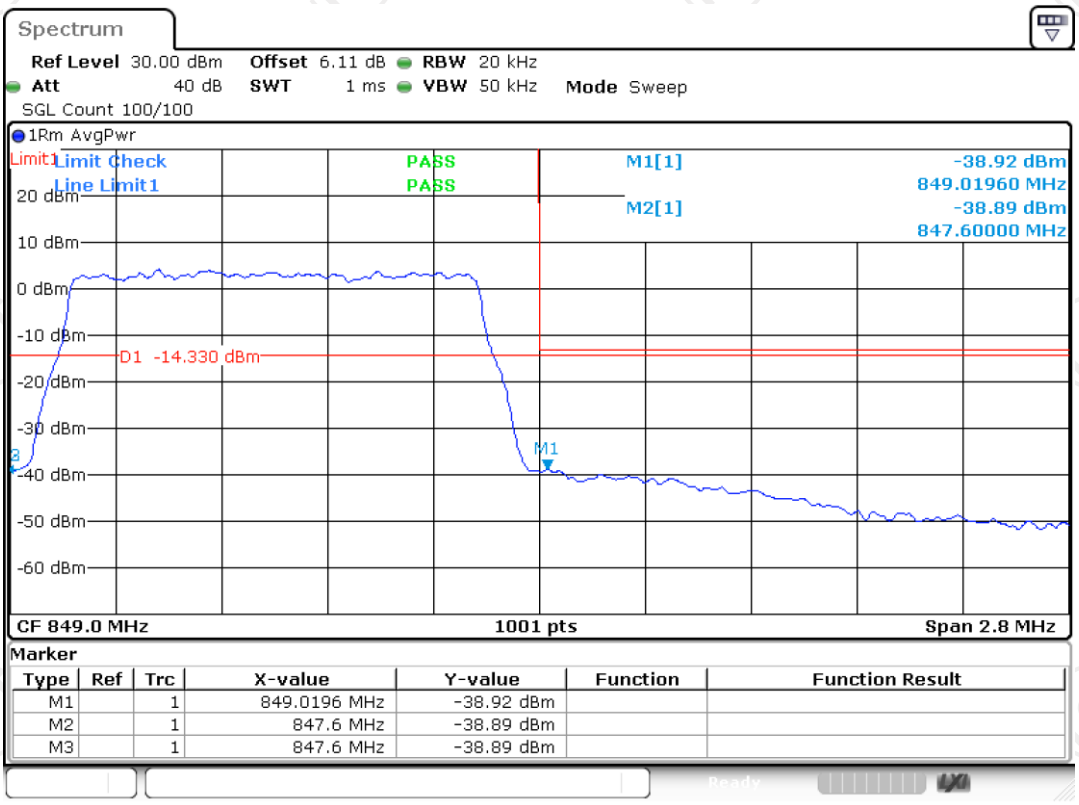

Date: 6.JUN.2023 11:41:47

Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



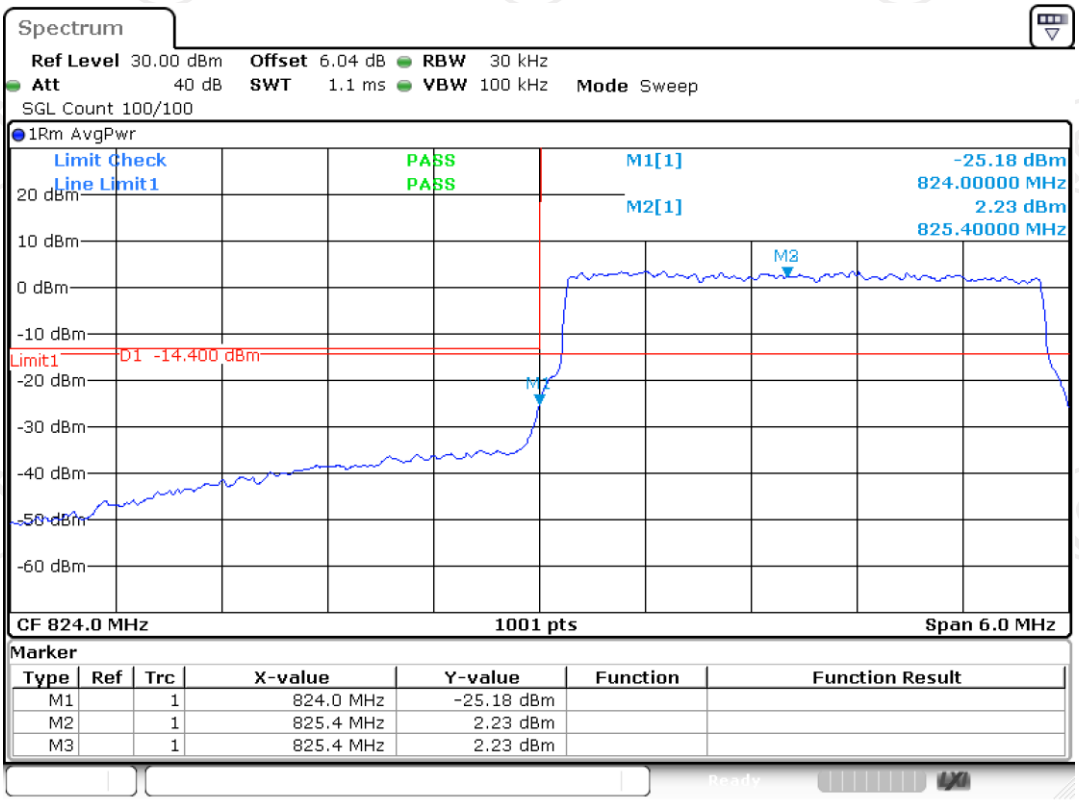

Date: 6.JUN.2023 11:41:52

Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0



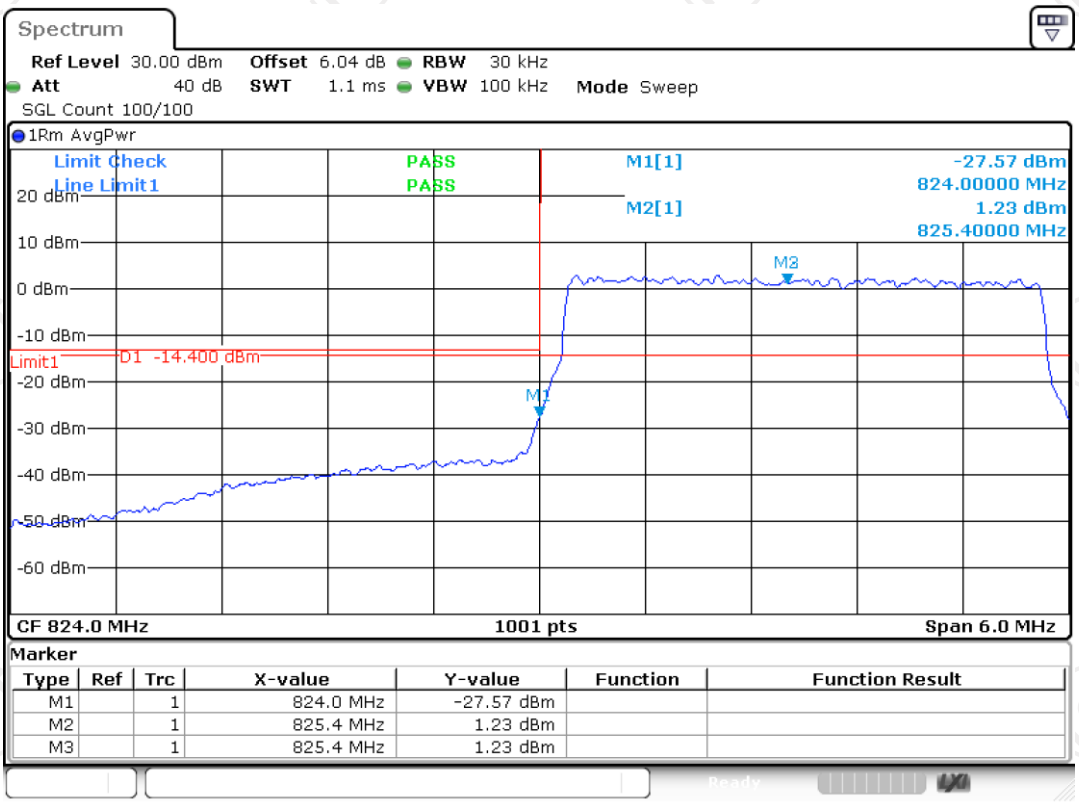

Date: 6.JUN.2023 11:41:57

Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



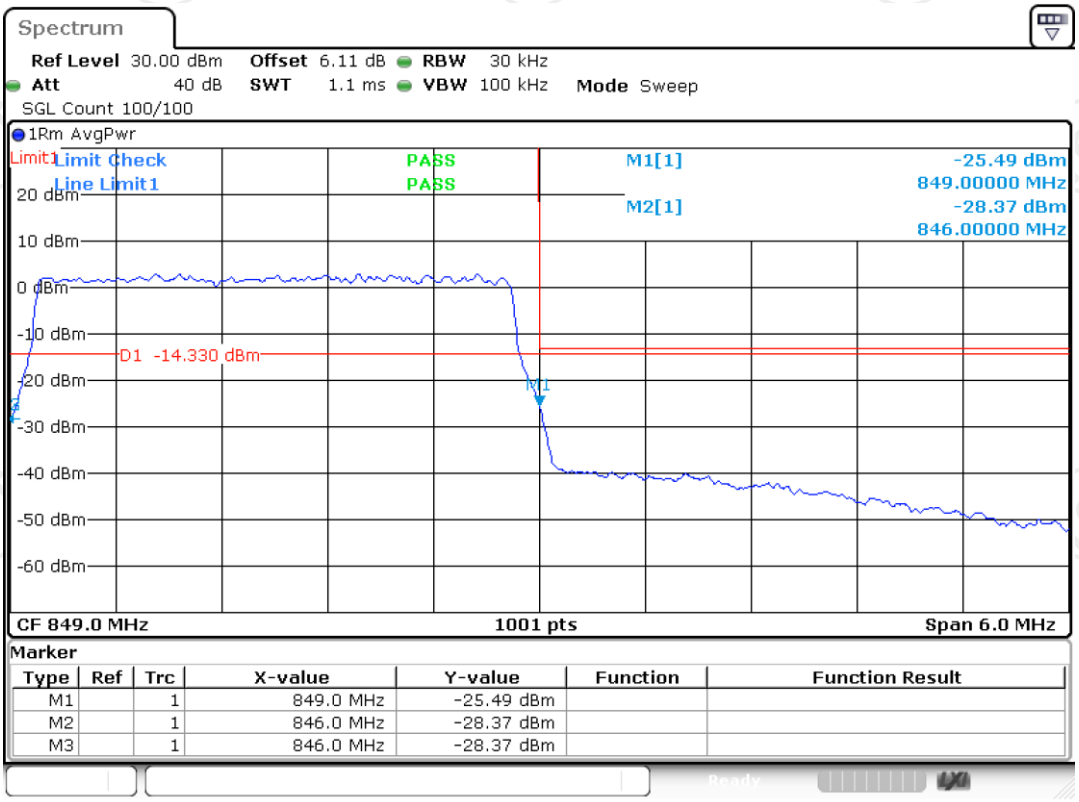

Date: 6.JUN.2023 11:42:02

Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0



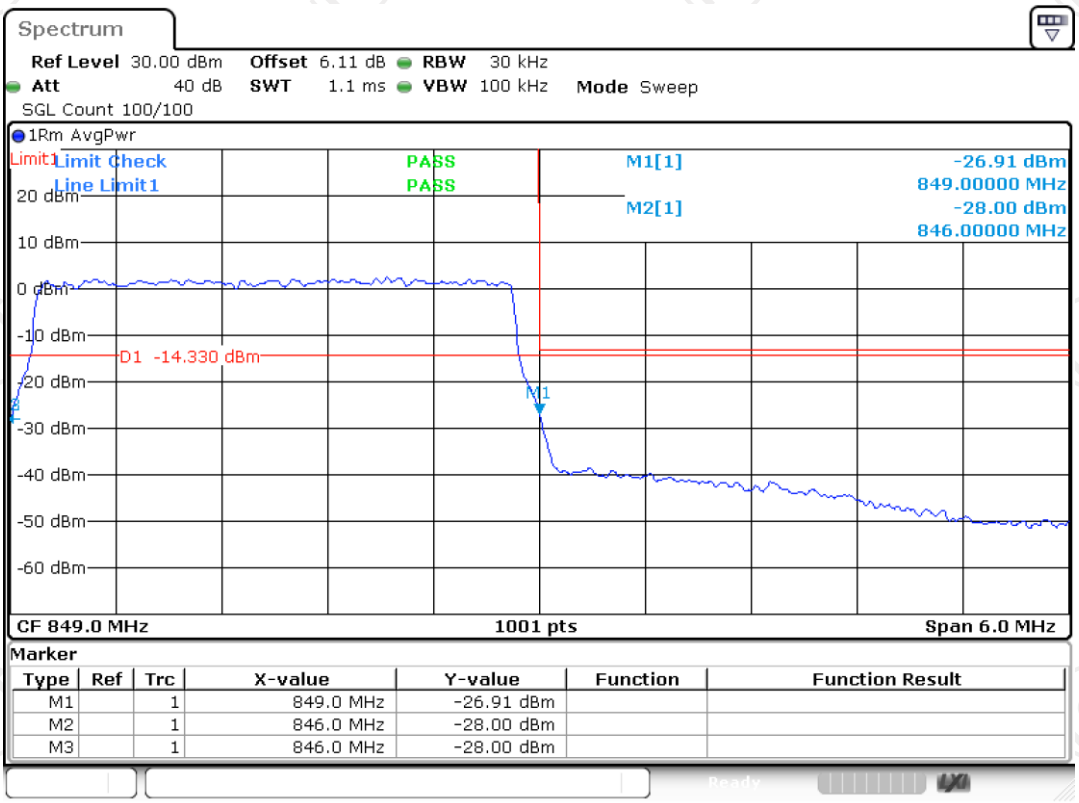

Date: 6.JUN.2023 11:42:07

Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



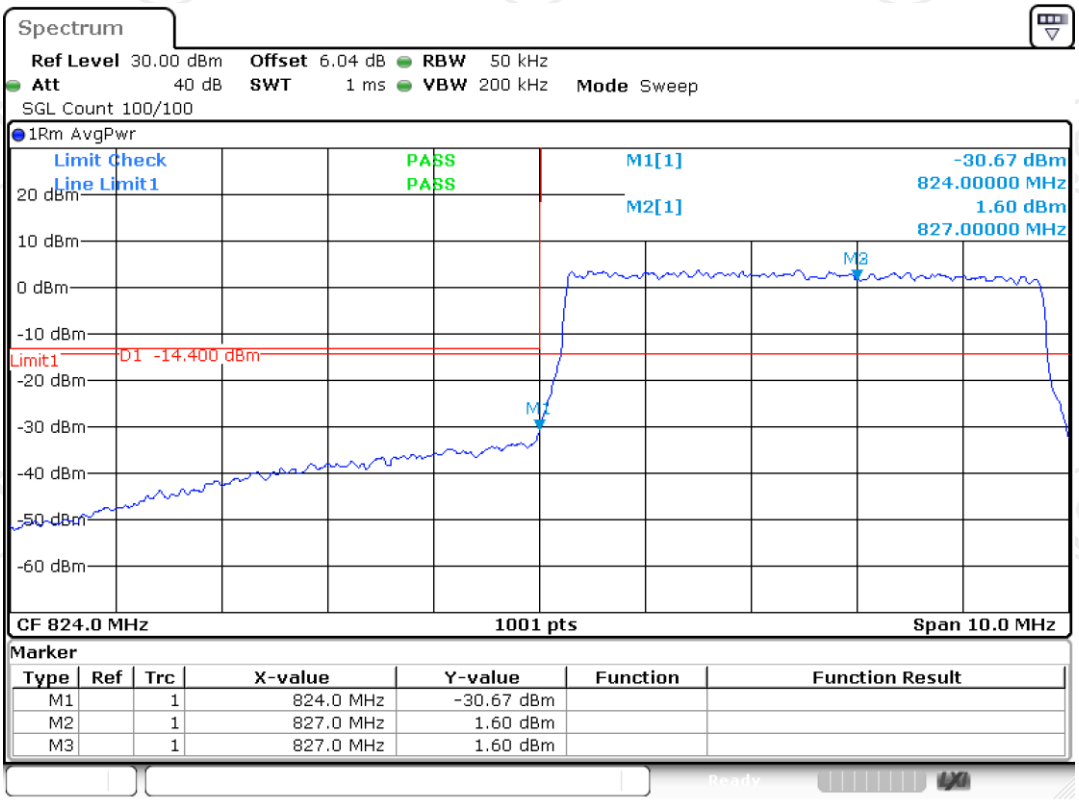

Date: 6.JUN.2023 11:42:12

Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0



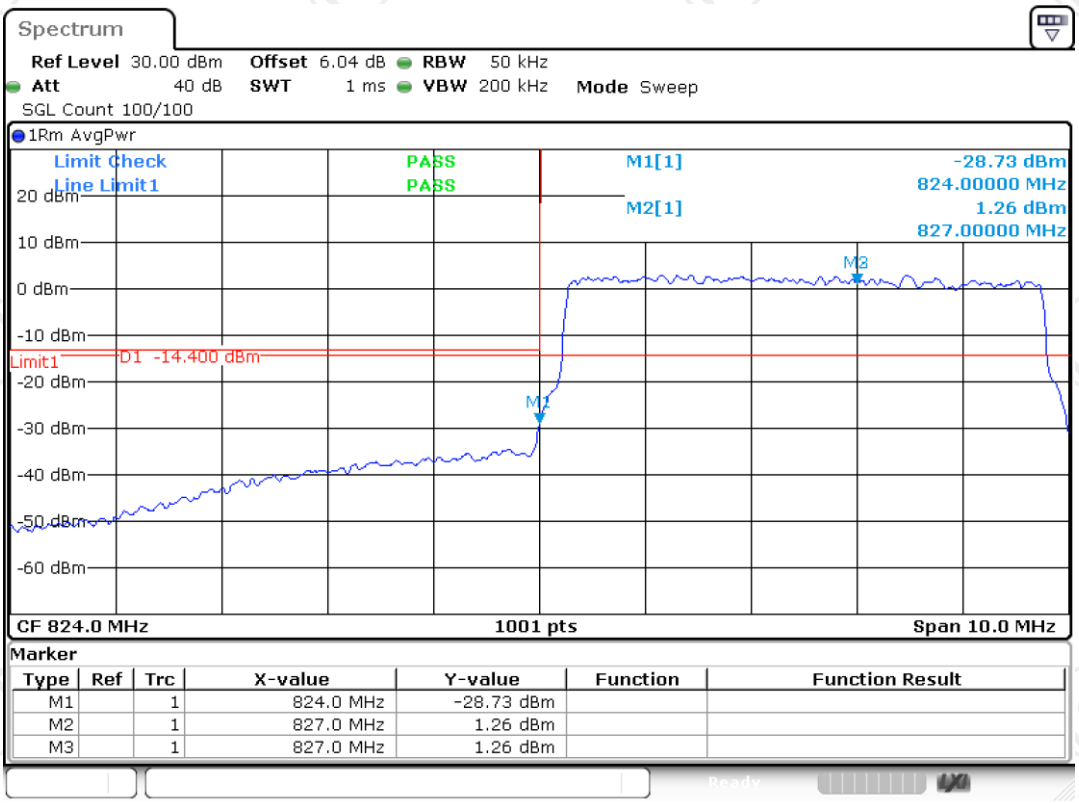

Date: 6.JUN.2023 11:42:17

Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0




Date: 6.JUN.2023 11:42:22

Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0




Date: 6.JUN.2023 11:42:27



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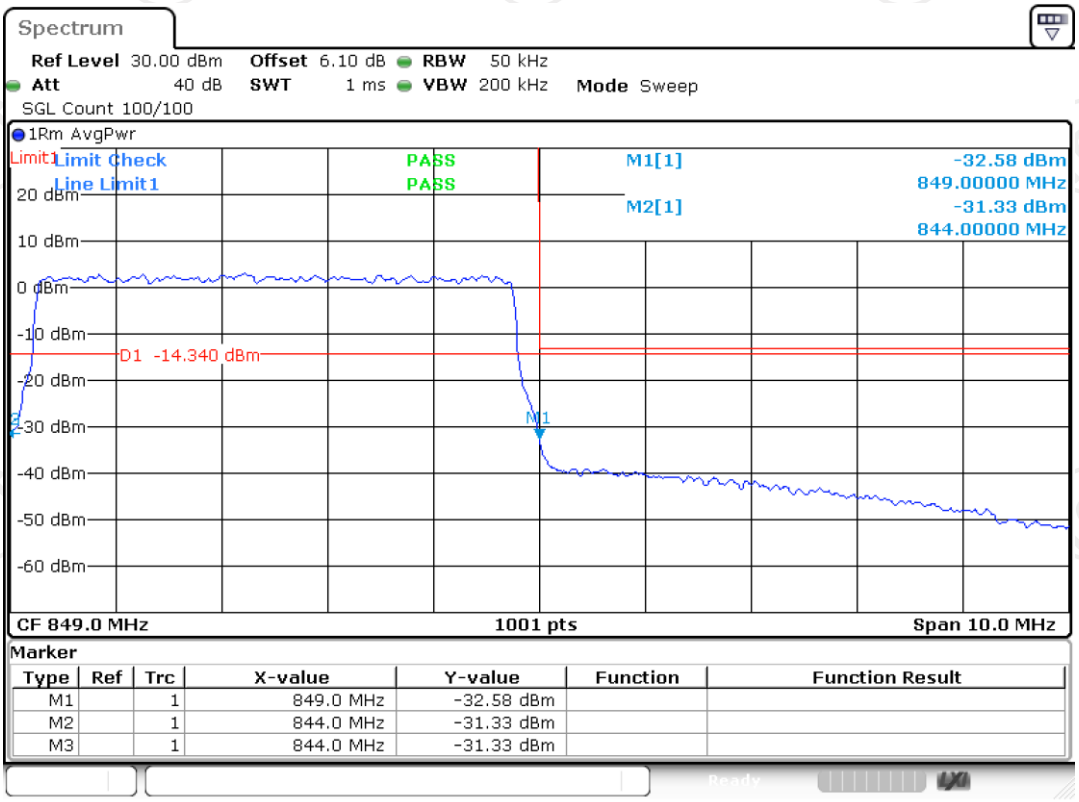
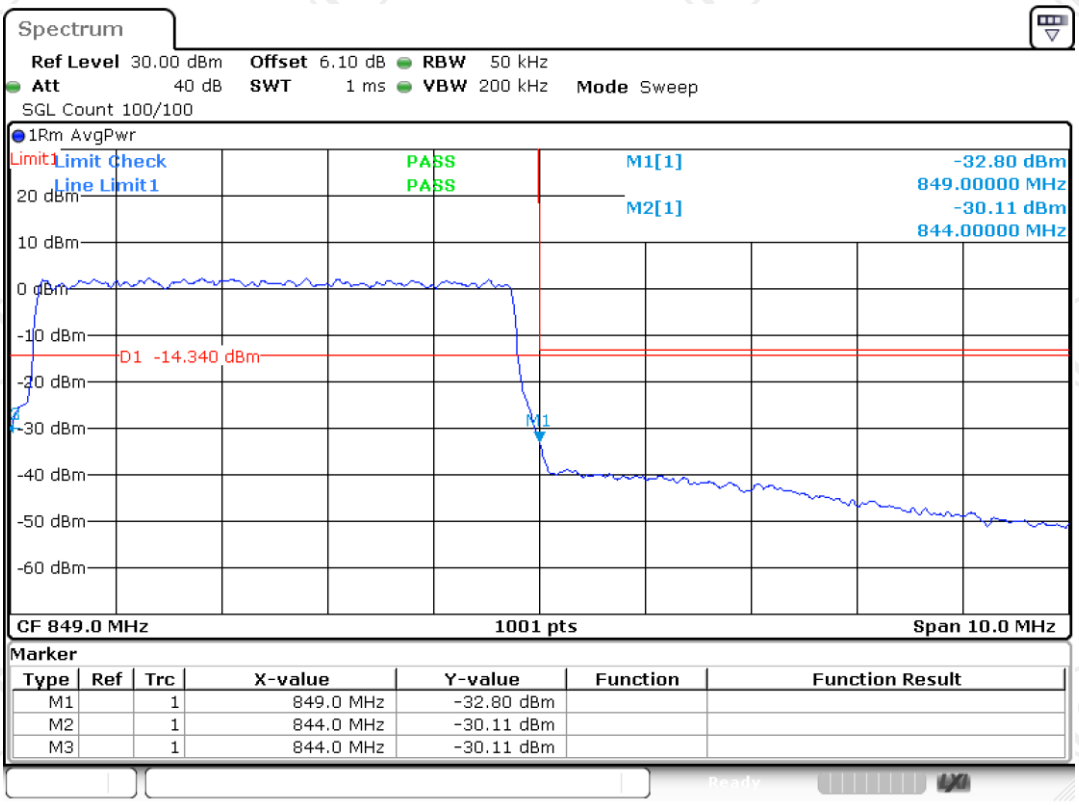
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



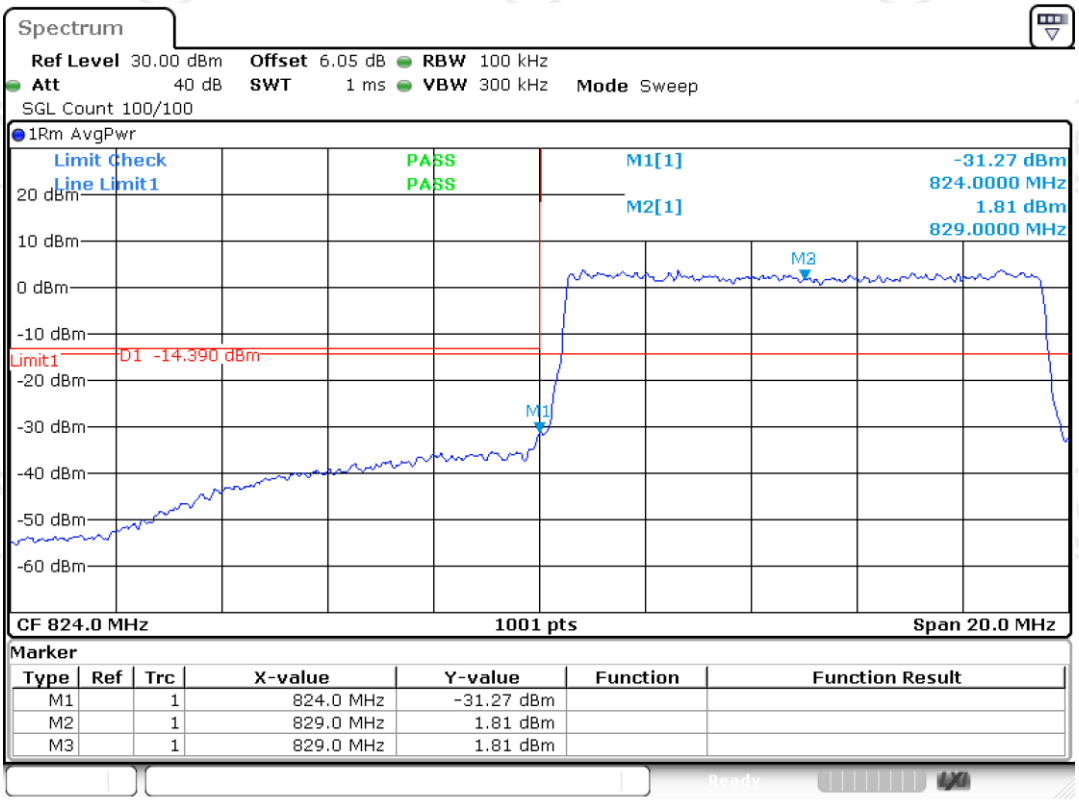

Date: 6.JUN.2023 11:42:32

Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0



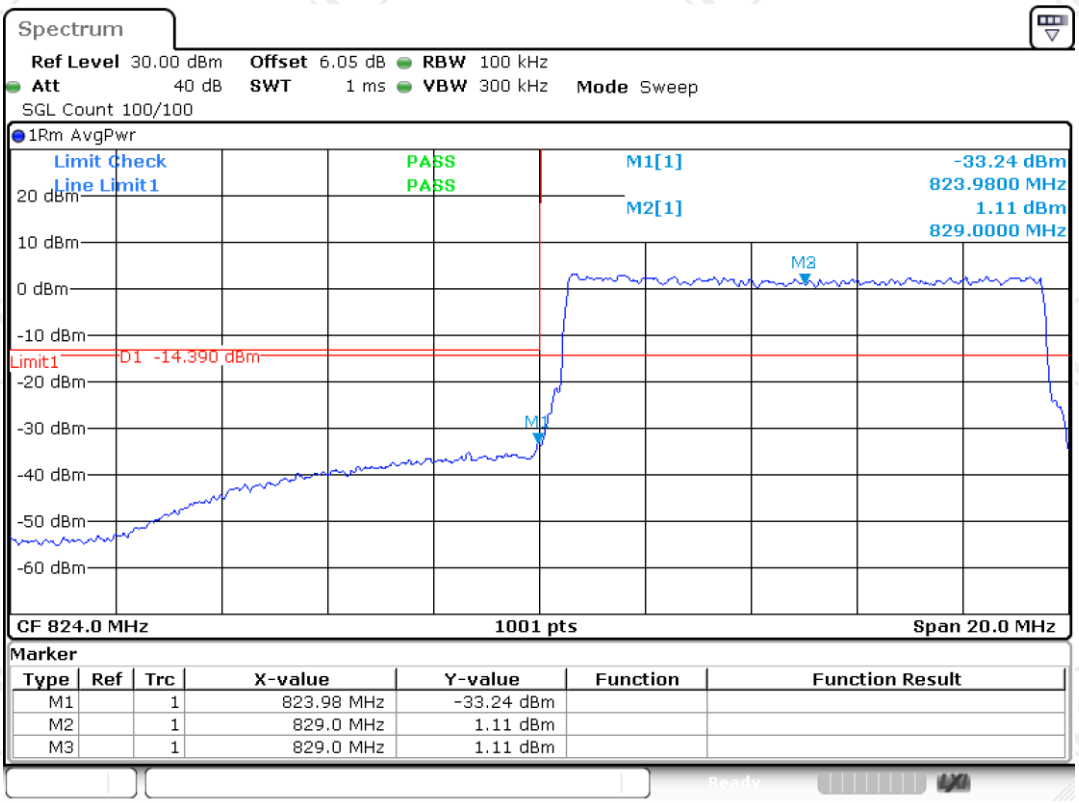

Date: 6.JUN.2023 11:42:37

Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



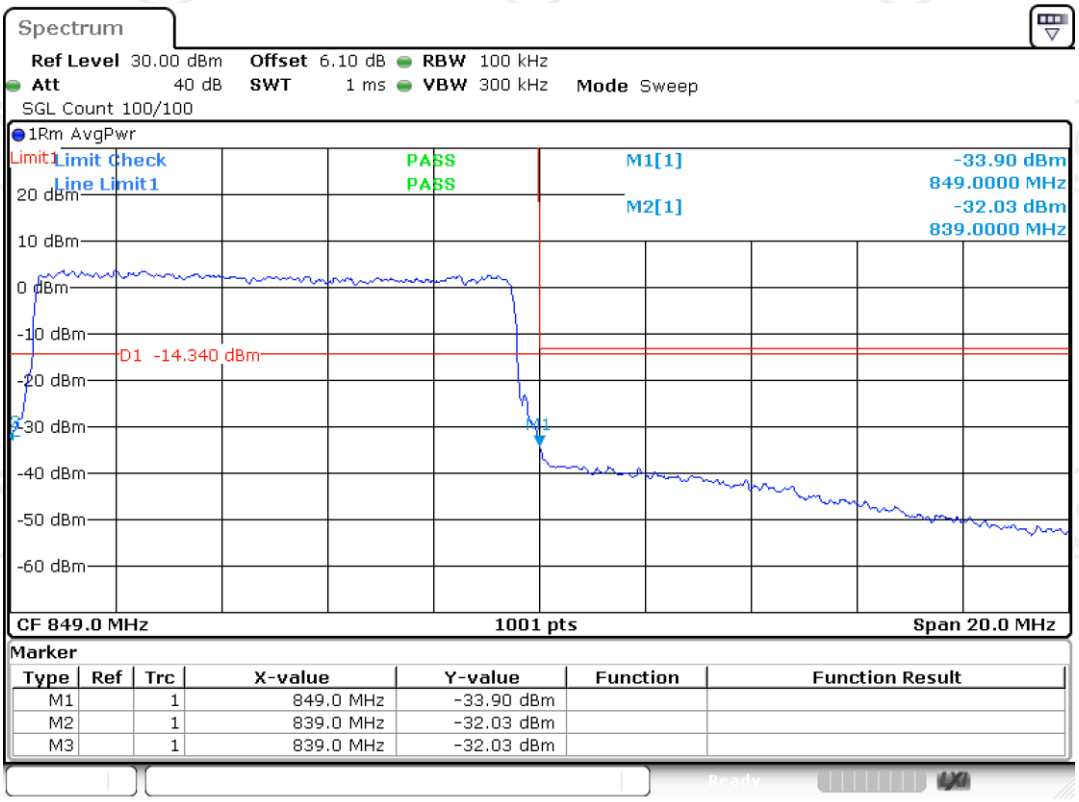

Date: 6.JUN.2023 11:42:43

Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0



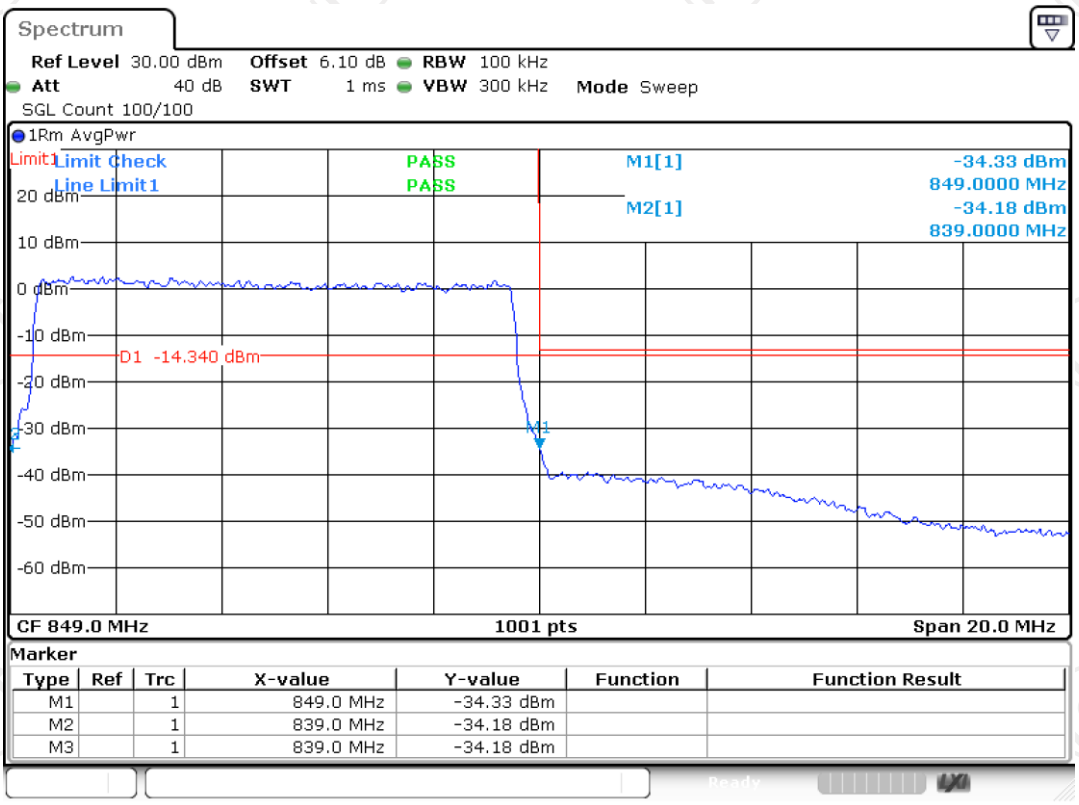

Date: 6.JUN.2023 11:42:48

Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0




Date: 6.JUN.2023 11:42:53

Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0




Date: 6.JUN.2023 11:42:58

## 6 Out-of-band emissions

| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band5 | 1.4 | 20407 | 1 | #0 | QPSK | 6738.35 | -30.97 | -13 | PASS |
| Band5 | 1.4 | 20407 | 1 | #0 | 16QAM | 6969.55 | -31.37 | -13 | PASS |
| Band5 | 1.4 | 20525 | 1 | #0 | QPSK | 6291.25 | -31.21 | -13 | PASS |
| Band5 | 1.4 | 20525 | 1 | #0 | 16QAM | 6283.60 | -30.60 | -13 | PASS |
| Band5 | 1.4 | 20643 | 1 | #0 | QPSK | 6919.40 | -30.86 | -13 | PASS |
| Band5 | 1.4 | 20643 | 1 | #0 | 16QAM | 6933.00 | -31.07 | -13 | PASS |
| Band5 | 3 | 20415 | 1 | #0 | QPSK | 6921.95 | -31.11 | -13 | PASS |
| Band5 | 3 | 20415 | 1 | #0 | 16QAM | 6275.95 | -30.92 | -13 | PASS |
| Band5 | 3 | 20525 | 1 | #0 | QPSK | 6542.85 | -30.44 | -13 | PASS |
| Band5 | 3 | 20525 | 1 | #0 | 16QAM | 6717.95 | -30.34 | -13 | PASS |
| Band5 | 3 | 20635 | 1 | #0 | QPSK | 6282.75 | -30.70 | -13 | PASS |
| Band5 | 3 | 20635 | 1 | #0 | 16QAM | 6933.00 | -30.91 | -13 | PASS |
| Band5 | 5 | 20425 | 1 | #0 | QPSK | 6250.45 | -30.96 | -13 | PASS |
| Band5 | 5 | 20425 | 1 | #0 | 16QAM | 5871.35 | -31.03 | -13 | PASS |
| Band5 | 5 | 20525 | 1 | #0 | QPSK | 6798.70 | -30.79 | -13 | PASS |
| Band5 | 5 | 20525 | 1 | #0 | 16QAM | 6305.70 | -30.60 | -13 | PASS |
| Band5 | 5 | 20625 | 1 | #0 | QPSK | 6887.95 | -30.23 | -13 | PASS |
| Band5 | 5 | 20625 | 1 | #0 | 16QAM | 6151.85 | -30.85 | -13 | PASS |
| Band5 | 10 | 20450 | 1 | #0 | QPSK | 6935.55 | -30.78 | -13 | PASS |
| Band5 | 10 | 20450 | 1 | #0 | 16QAM | 6260.65 | -30.90 | -13 | PASS |
| Band5 | 10 | 20525 | 1 | #0 | QPSK | 6217.30 | -30.54 | -13 | PASS |
| Band5 | 10 | 20525 | 1 | #0 | 16QAM | 6573.45 | -30.86 | -13 | PASS |
| Band5 | 10 | 20600 | 1 | #0 | QPSK | 6363.50 | -30.86 | -13 | PASS |
| Band5 | 10 | 20600 | 1 | #0 | 16QAM | 6995.05 | -31.15 | -13 | PASS |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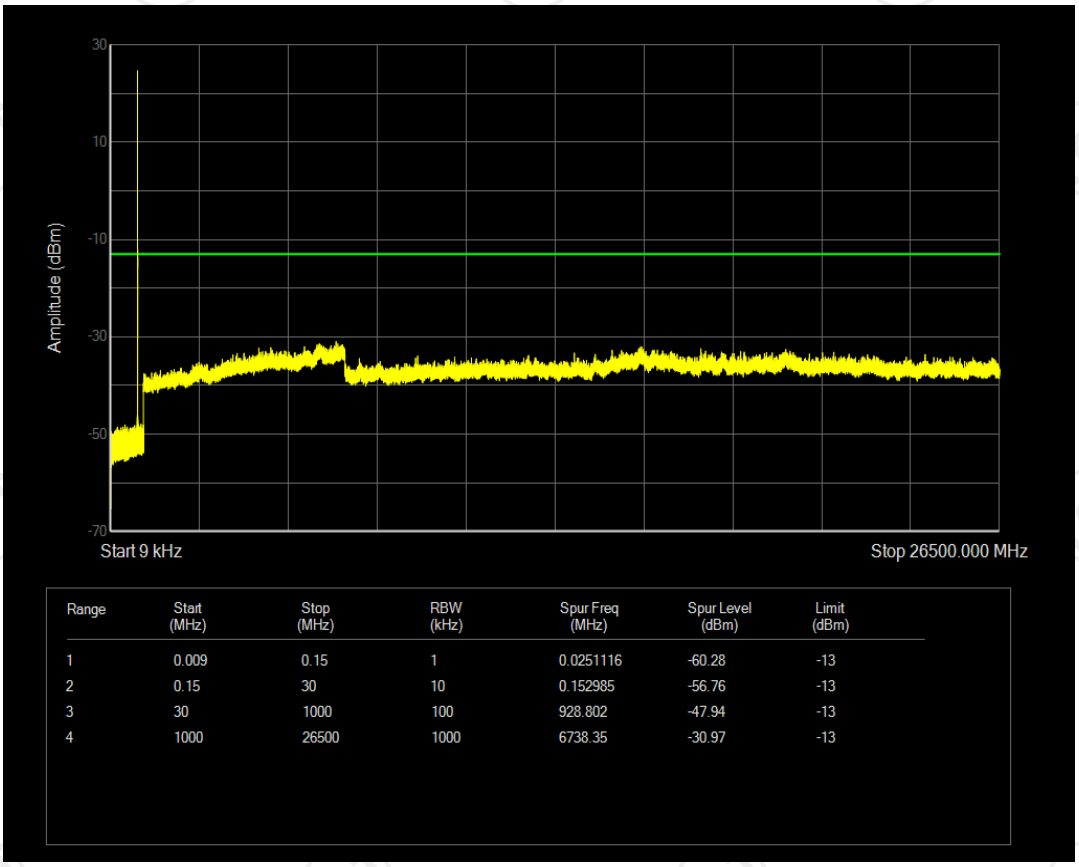
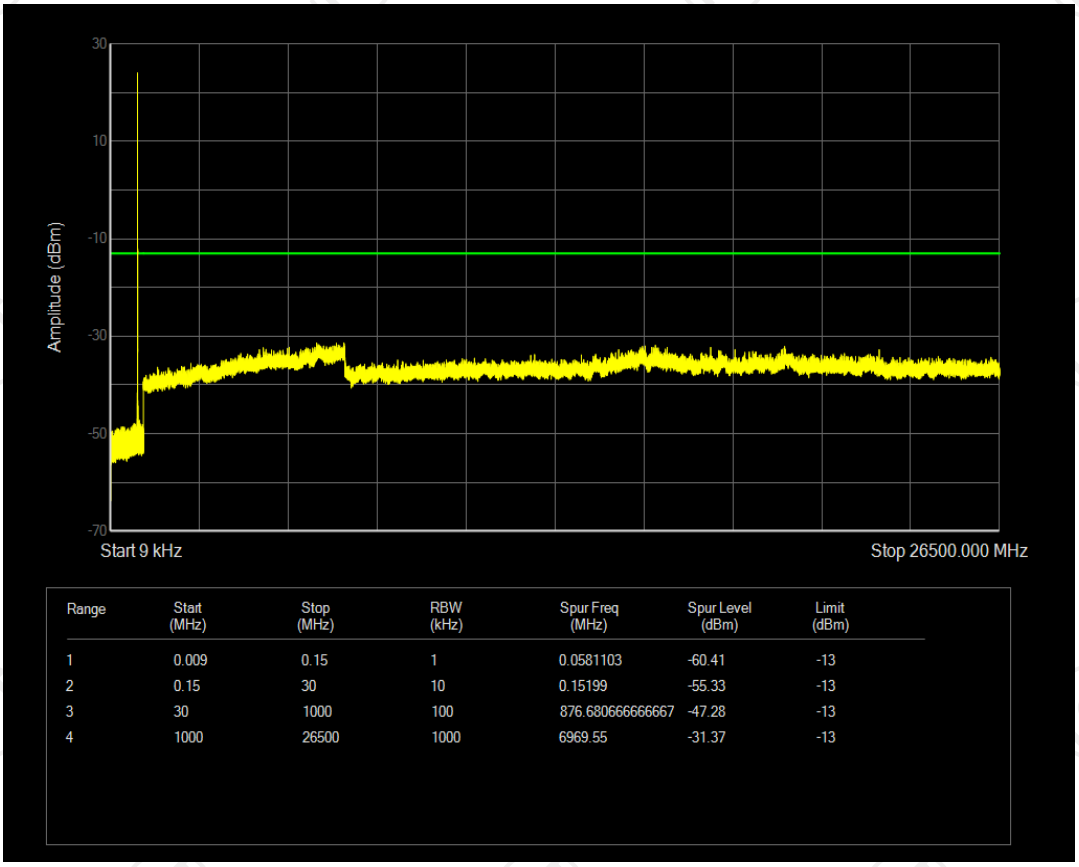
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=1 Position=#0



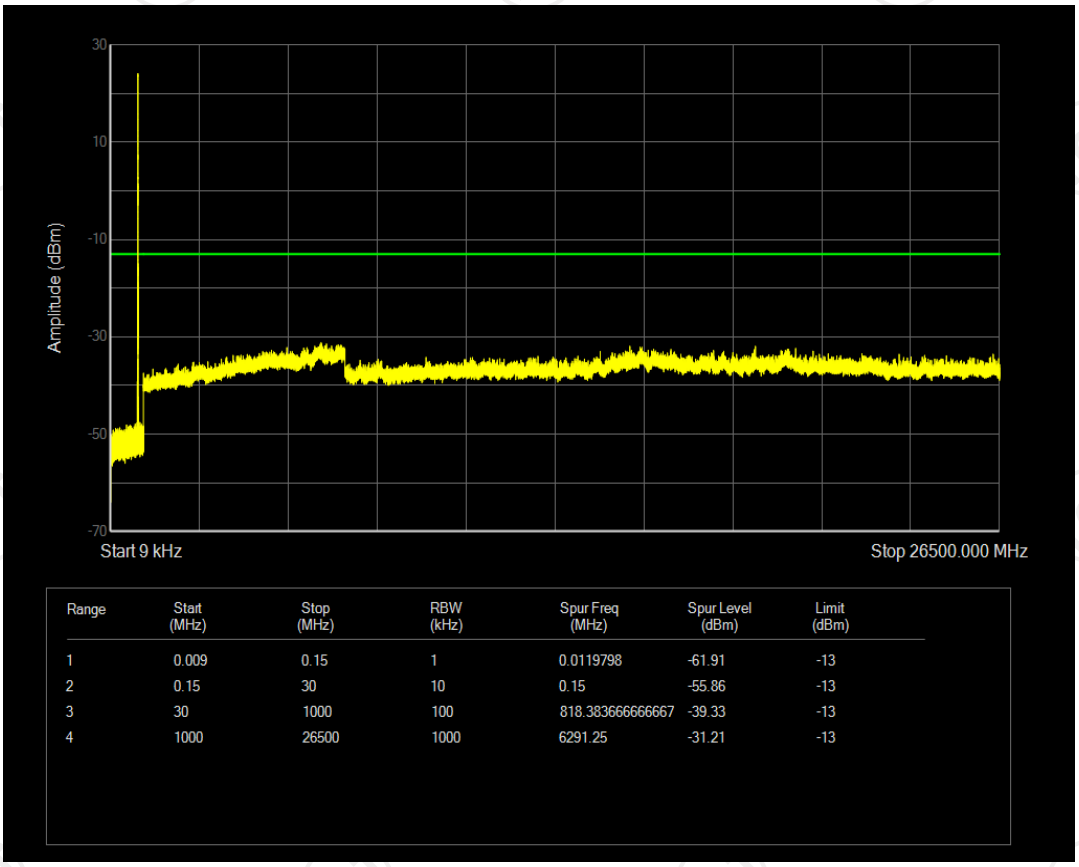

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0251116 | -60.28 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -56.76 | -13 |
| 3 | 30 | 1000 | 100 | 928.802 | -47.94 | -13 |
| 4 | 1000 | 26500 | 1000 | 6738.35 | -30.97 | -13 |

Band5 16QAM BW=1.4MHz Channel=20407 RB Size=1 Position=#0



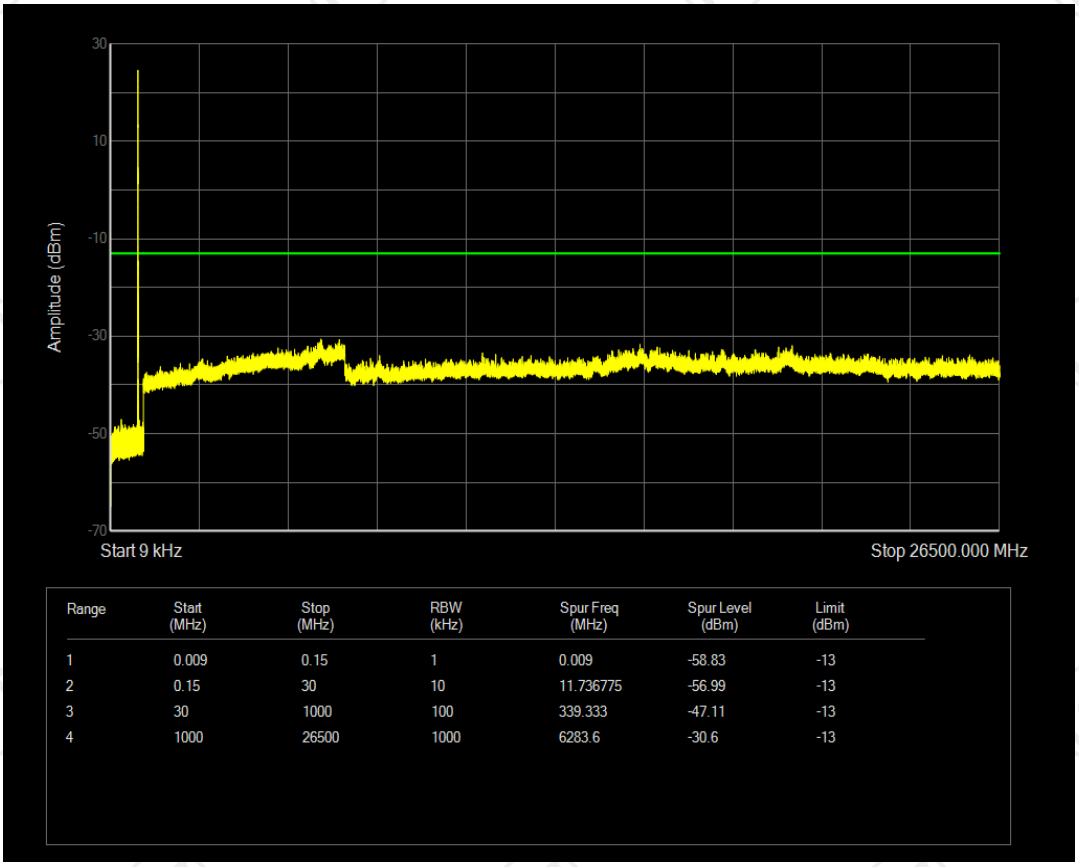

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0581103 | -60.41 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15199 | -55.33 | -13 |
| 3 | 30 | 1000 | 100 | 876.680666666667 | -47.28 | -13 |
| 4 | 1000 | 26500 | 1000 | 6969.55 | -31.37 | -13 |

Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0



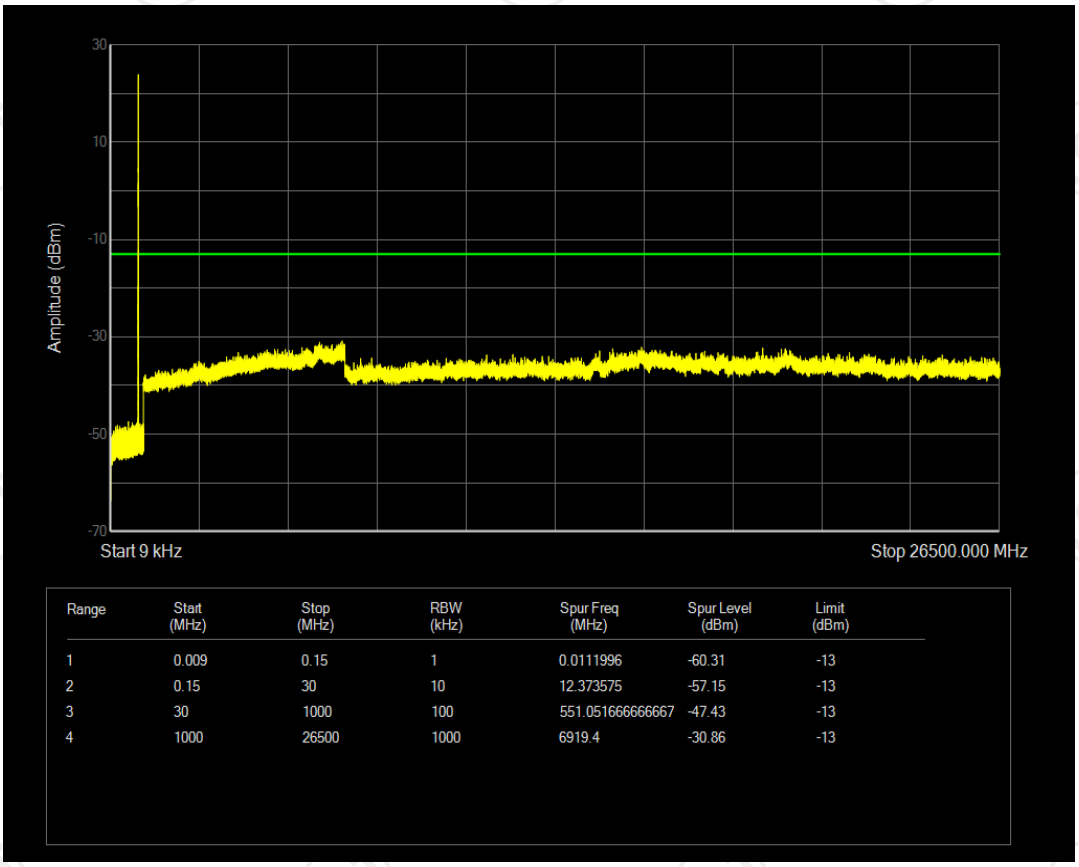

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0119798 | -61.91 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.86 | -13 |
| 3 | 30 | 1000 | 100 | 818.383666666667 | -39.33 | -13 |
| 4 | 1000 | 26500 | 1000 | 6291.25 | -31.21 | -13 |

Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0



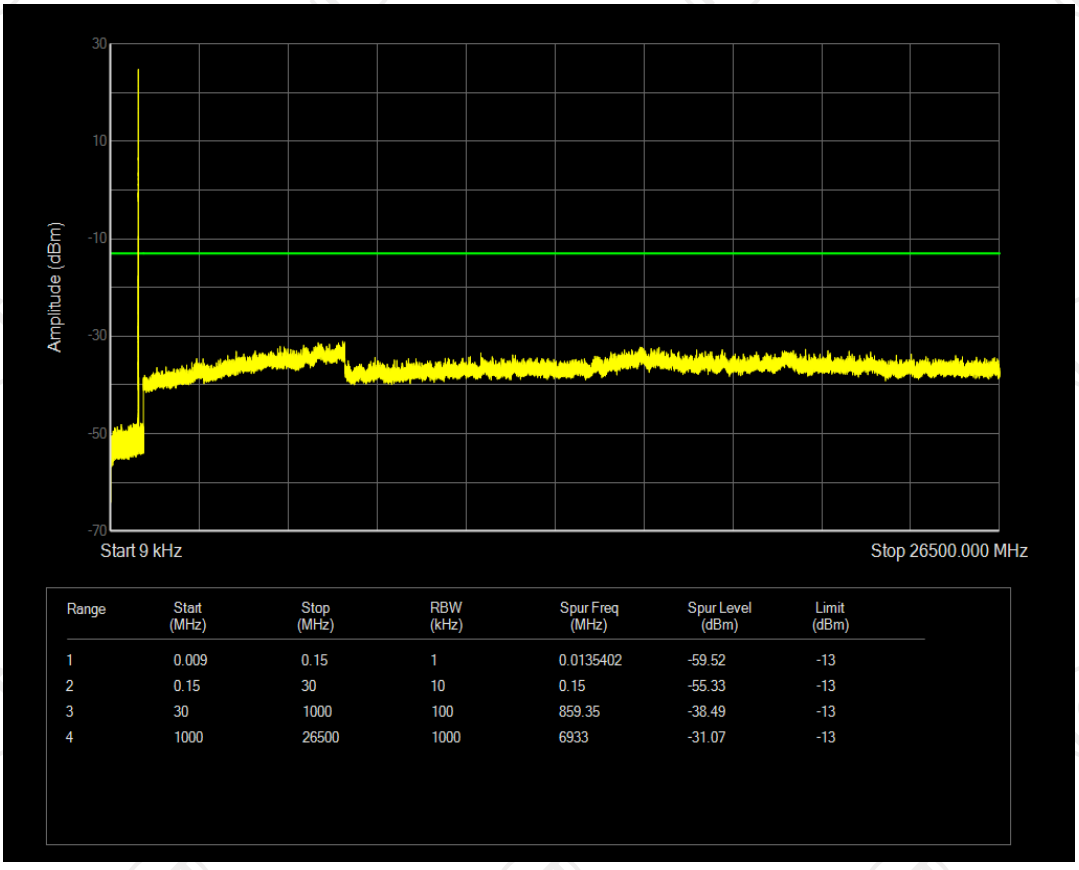

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -58.83 | -13 |
| 2 | 0.15 | 30 | 10 | 11.736775 | -56.99 | -13 |
| 3 | 30 | 1000 | 100 | 339.333 | -47.11 | -13 |
| 4 | 1000 | 26500 | 1000 | 6283.6 | -30.6 | -13 |

Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0



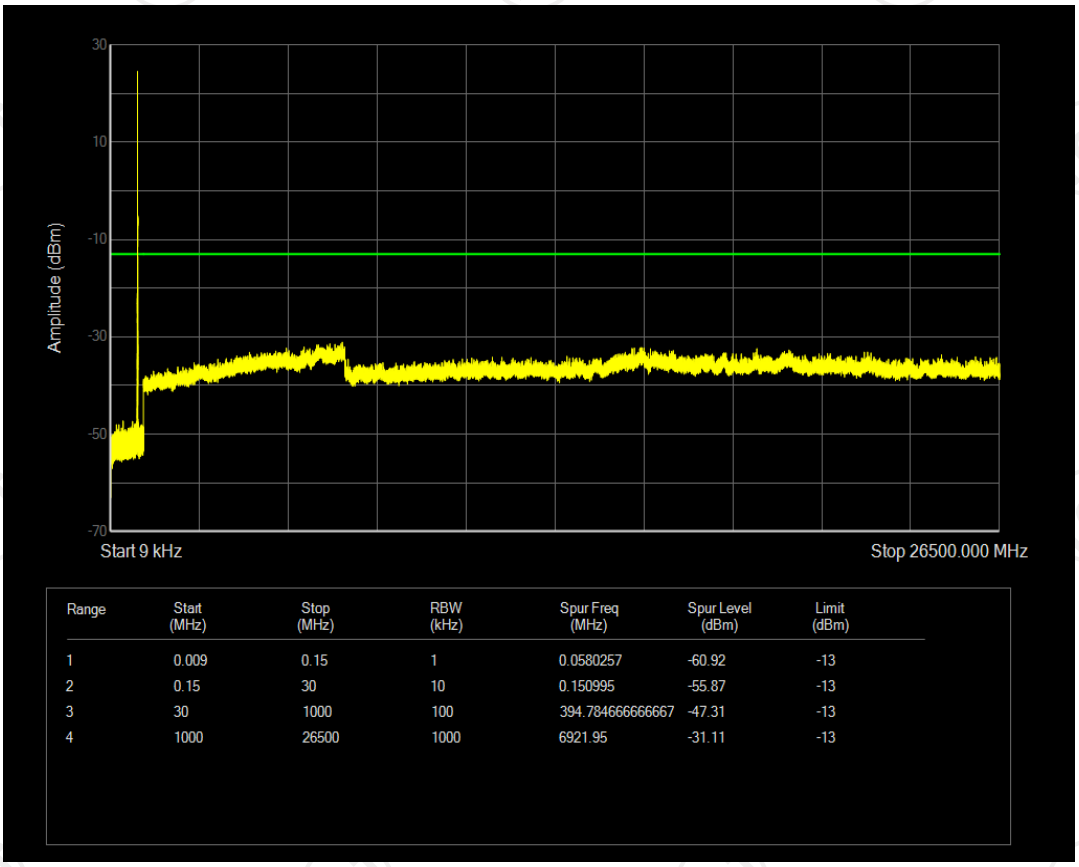

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0111996 | -60.31 | -13 |
| 2 | 0.15 | 30 | 10 | 12.373575 | -57.15 | -13 |
| 3 | 30 | 1000 | 100 | 551.051666666667 | -47.43 | -13 |
| 4 | 1000 | 26500 | 1000 | 6919.4 | -30.86 | -13 |

Band5 16QAM BW=1.4MHz Channel=20643 RB Size=1 Position=#0



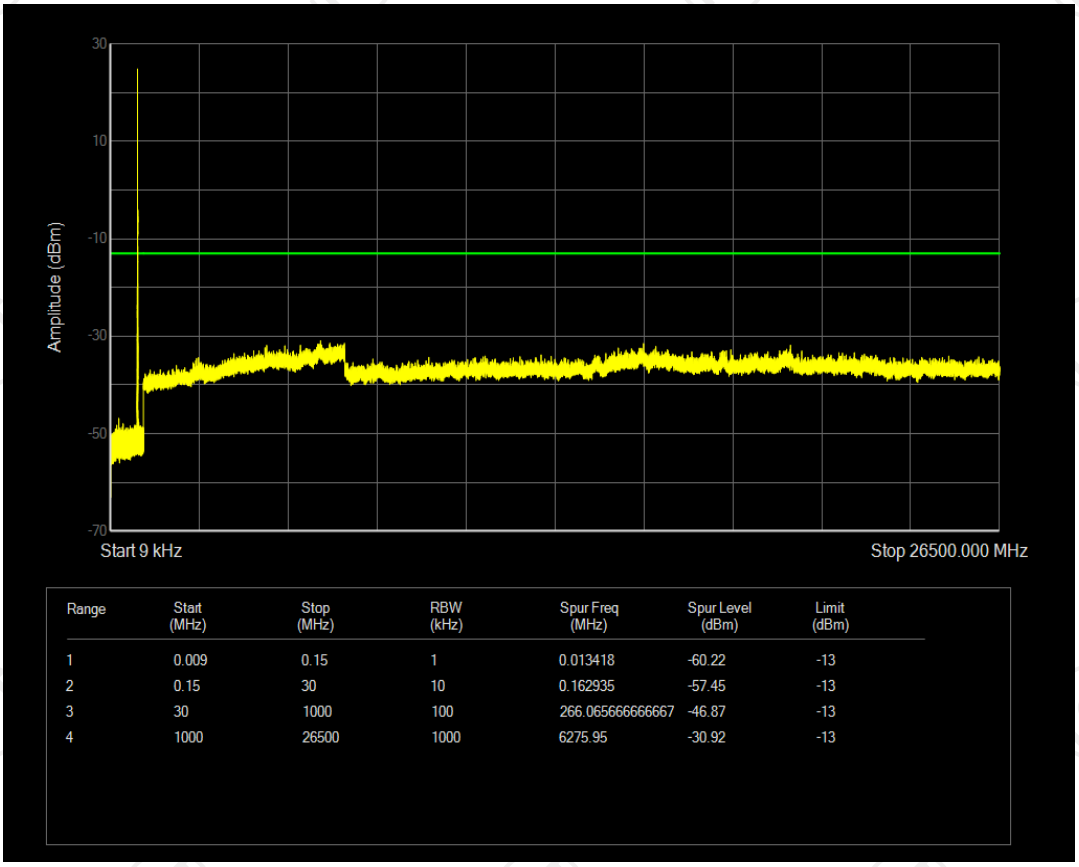

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0135402 | -59.52 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.33 | -13 |
| 3 | 30 | 1000 | 100 | 859.35 | -38.49 | -13 |
| 4 | 1000 | 26500 | 1000 | 6933 | -31.07 | -13 |

Band5 QPSK BW=3MHz Channel=20415 RB Size=1 Position=#0



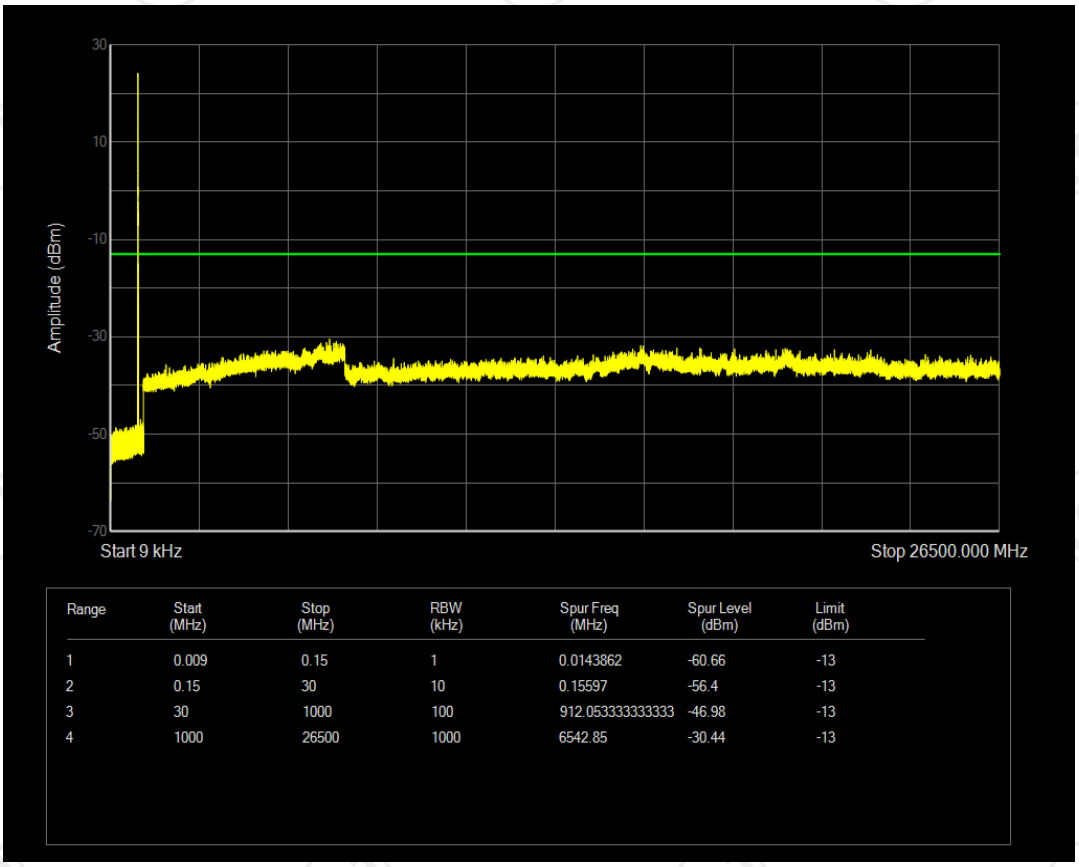

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0580257 | -60.92 | -13 |
| 2 | 0.15 | 30 | 10 | 0.150995 | -55.87 | -13 |
| 3 | 30 | 1000 | 100 | 394.784666666667 | -47.31 | -13 |
| 4 | 1000 | 26500 | 1000 | 6921.95 | -31.11 | -13 |

Band5 16QAM BW=3MHz Channel=20415 RB Size=1 Position=#0



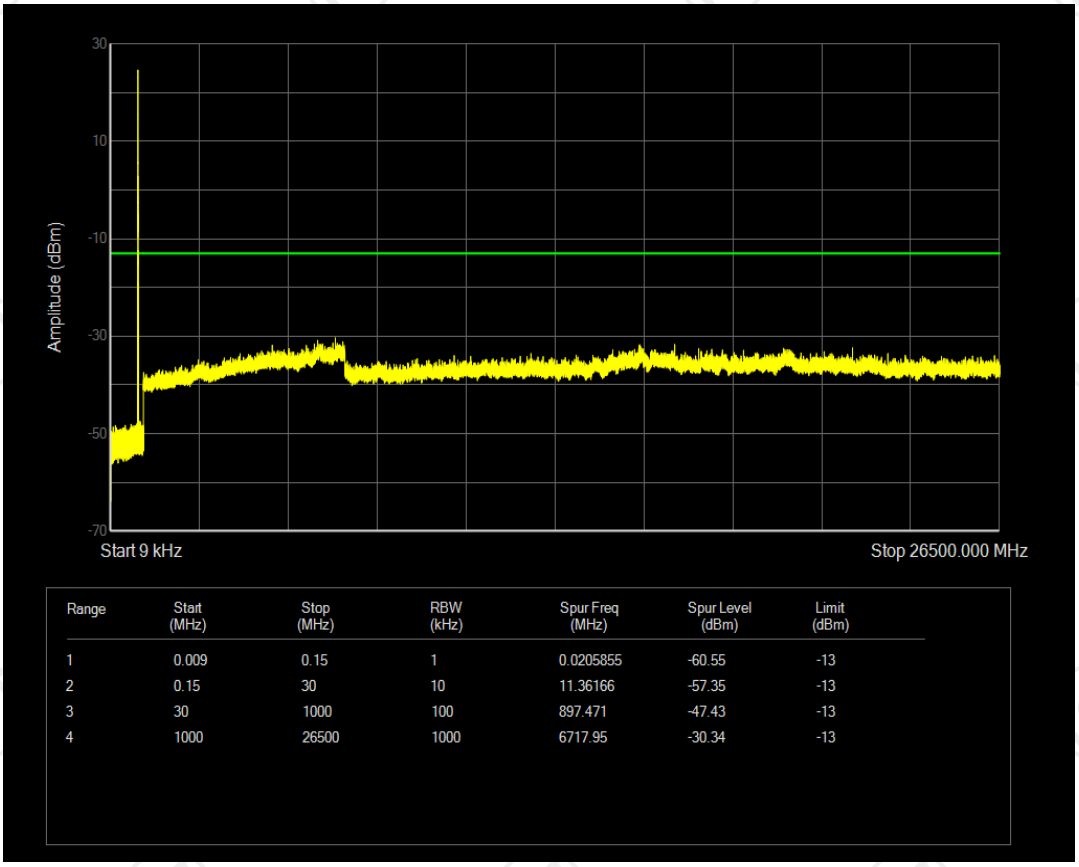

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.013418 | -60.22 | -13 |
| 2 | 0.15 | 30 | 10 | 0.162935 | -57.45 | -13 |
| 3 | 30 | 1000 | 100 | 266.065666666667 | -46.87 | -13 |
| 4 | 1000 | 26500 | 1000 | 6275.95 | -30.92 | -13 |

Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0



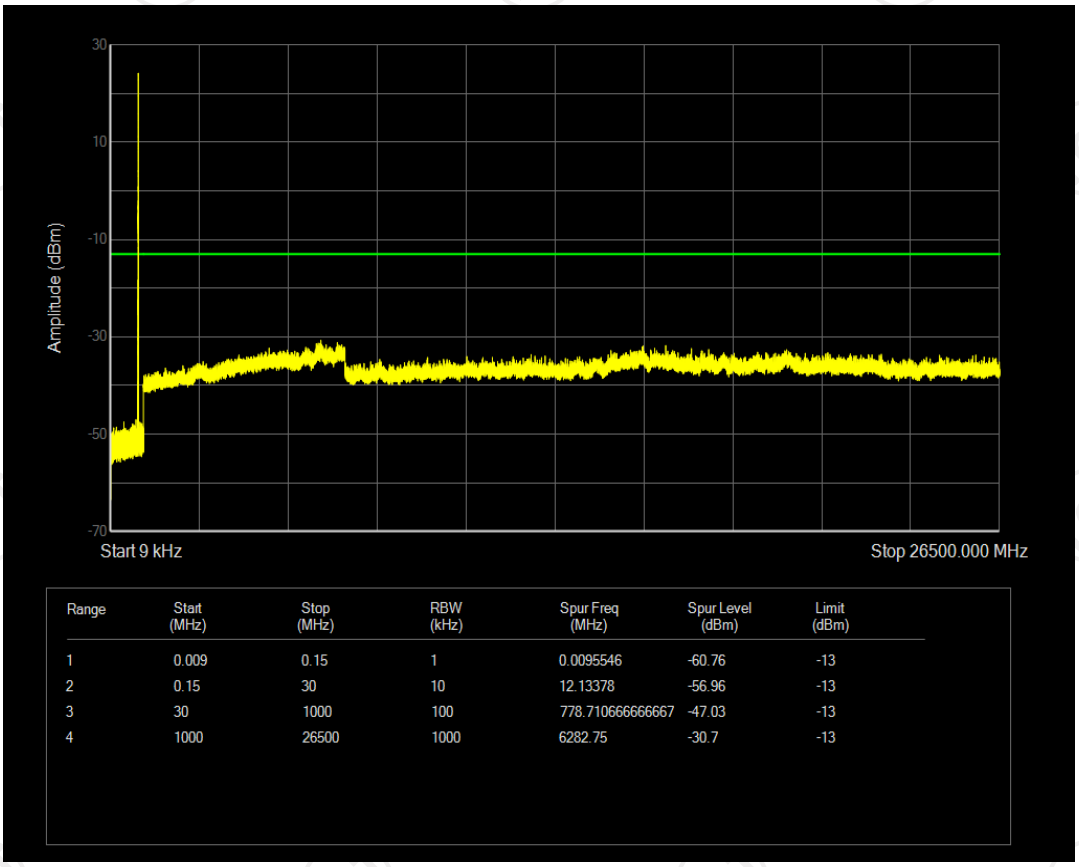

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0143862 | -60.66 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15597 | -56.4 | -13 |
| 3 | 30 | 1000 | 100 | 912.053333333333 | -46.98 | -13 |
| 4 | 1000 | 26500 | 1000 | 6542.85 | -30.44 | -13 |

Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0



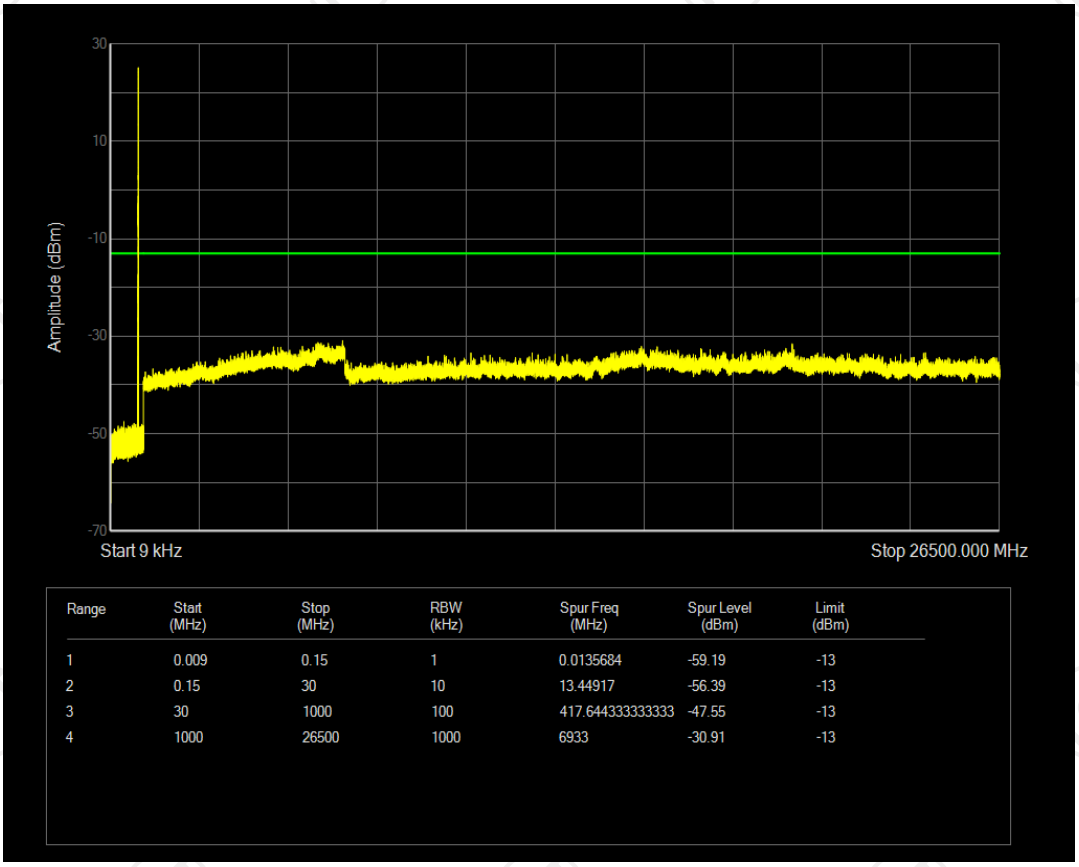

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0205855 | -60.55 | -13 |
| 2 | 0.15 | 30 | 10 | 11.36166 | -57.35 | -13 |
| 3 | 30 | 1000 | 100 | 897.471 | -47.43 | -13 |
| 4 | 1000 | 26500 | 1000 | 6717.95 | -30.34 | -13 |

Band5 QPSK BW=3MHz Channel=20635 RB Size=1 Position=#0



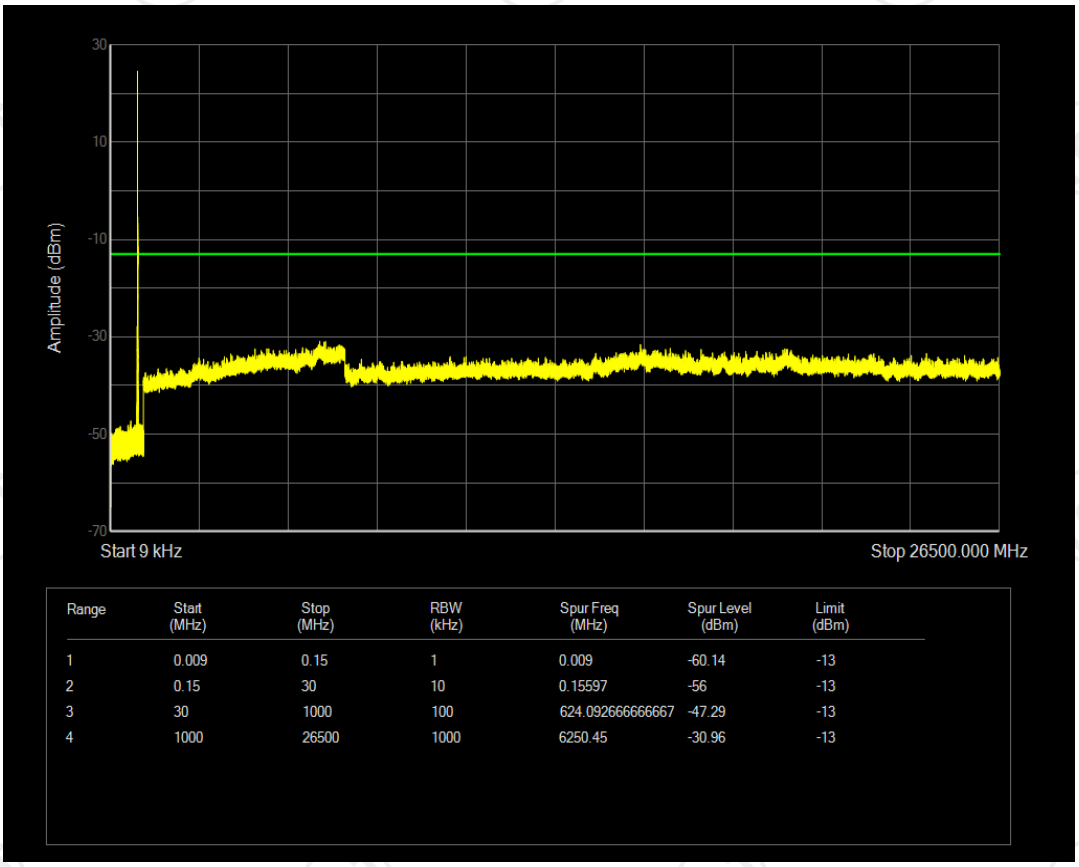

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0095546 | -60.76 | -13 |
| 2 | 0.15 | 30 | 10 | 12.13378 | -56.96 | -13 |
| 3 | 30 | 1000 | 100 | 778.710666666667 | -47.03 | -13 |
| 4 | 1000 | 26500 | 1000 | 6282.75 | -30.7 | -13 |

Band5 16QAM BW=3MHz Channel=20635 RB Size=1 Position=#0



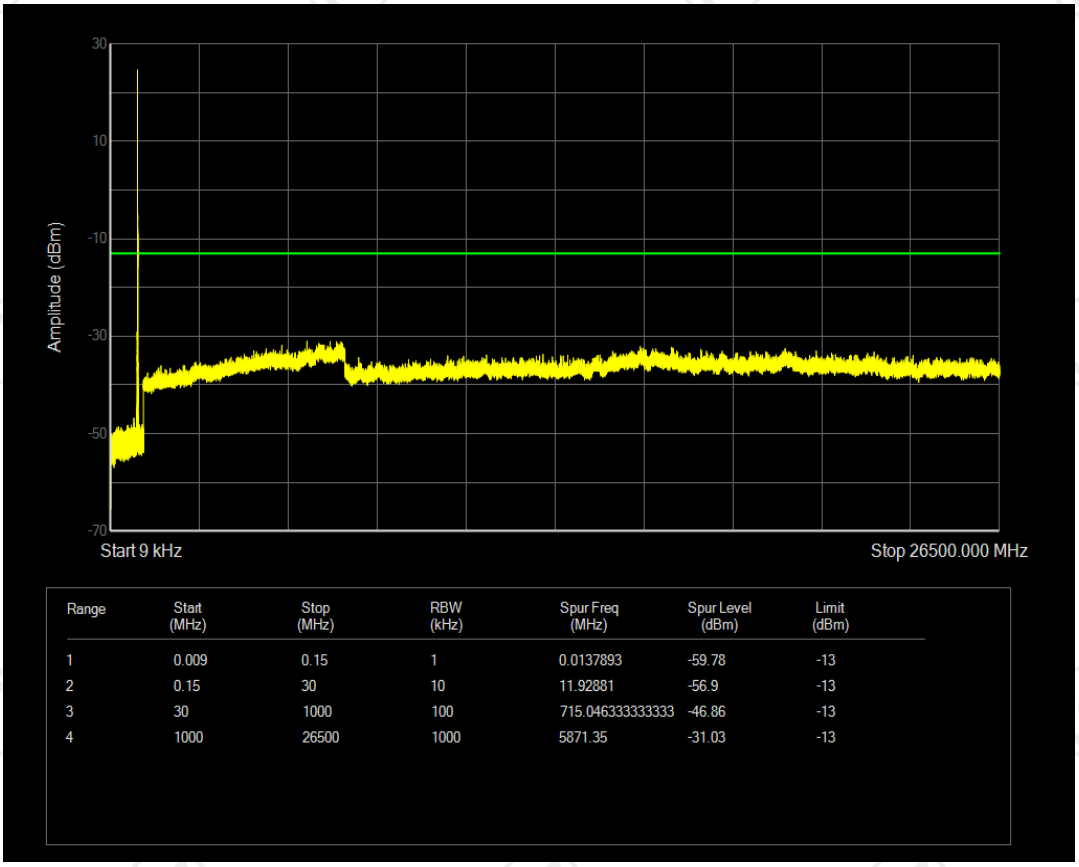

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0135684 | -59.19 | -13 |
| 2 | 0.15 | 30 | 10 | 13.44917 | -56.39 | -13 |
| 3 | 30 | 1000 | 100 | 417.644333333333 | -47.55 | -13 |
| 4 | 1000 | 26500 | 1000 | 6933 | -30.91 | -13 |

Band5 QPSK BW=5MHz Channel=20425 RB Size=1 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -60.14 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15597 | -56 | -13 |
| 3 | 30 | 1000 | 100 | 624.092666666667 | -47.29 | -13 |
| 4 | 1000 | 26500 | 1000 | 6250.45 | -30.96 | -13 |

Band5 16QAM BW=5MHz Channel=20425 RB Size=1 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0137893 | -59.78 | -13 |
| 2 | 0.15 | 30 | 10 | 11.92881 | -56.9 | -13 |
| 3 | 30 | 1000 | 100 | 715.046333333333 | -46.86 | -13 |
| 4 | 1000 | 26500 | 1000 | 5871.35 | -31.03 | -13 |



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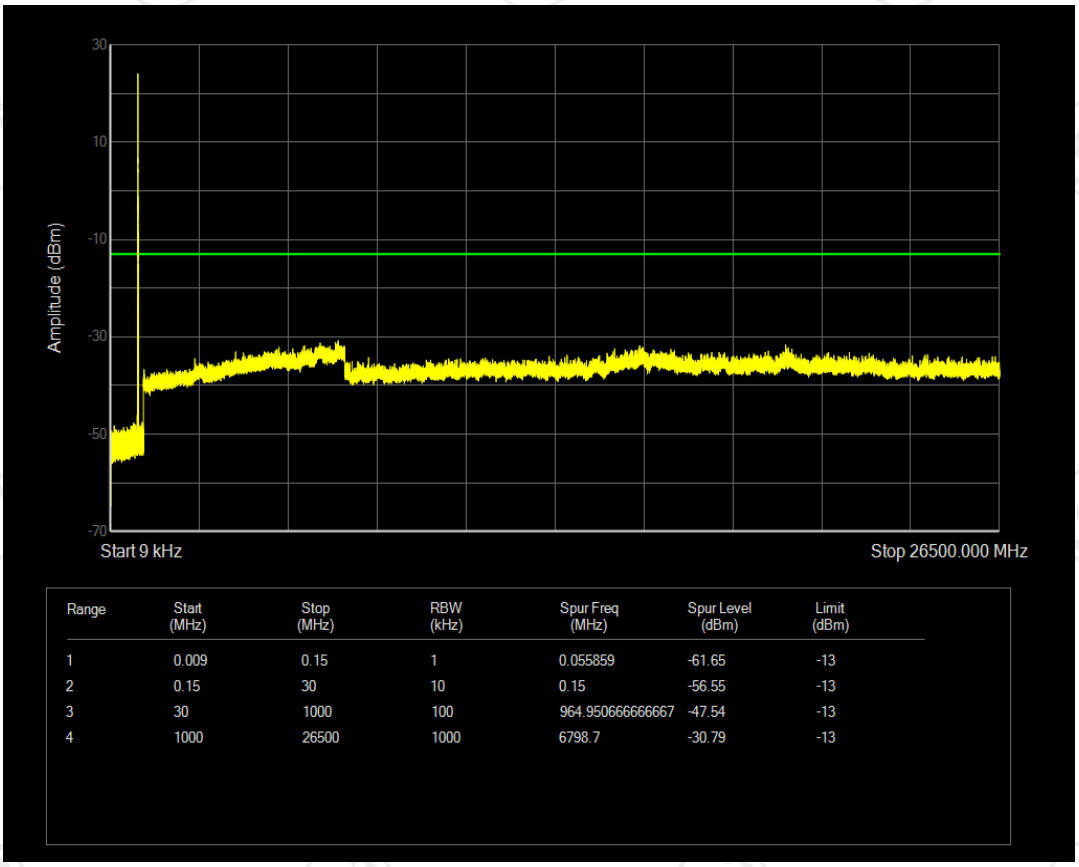
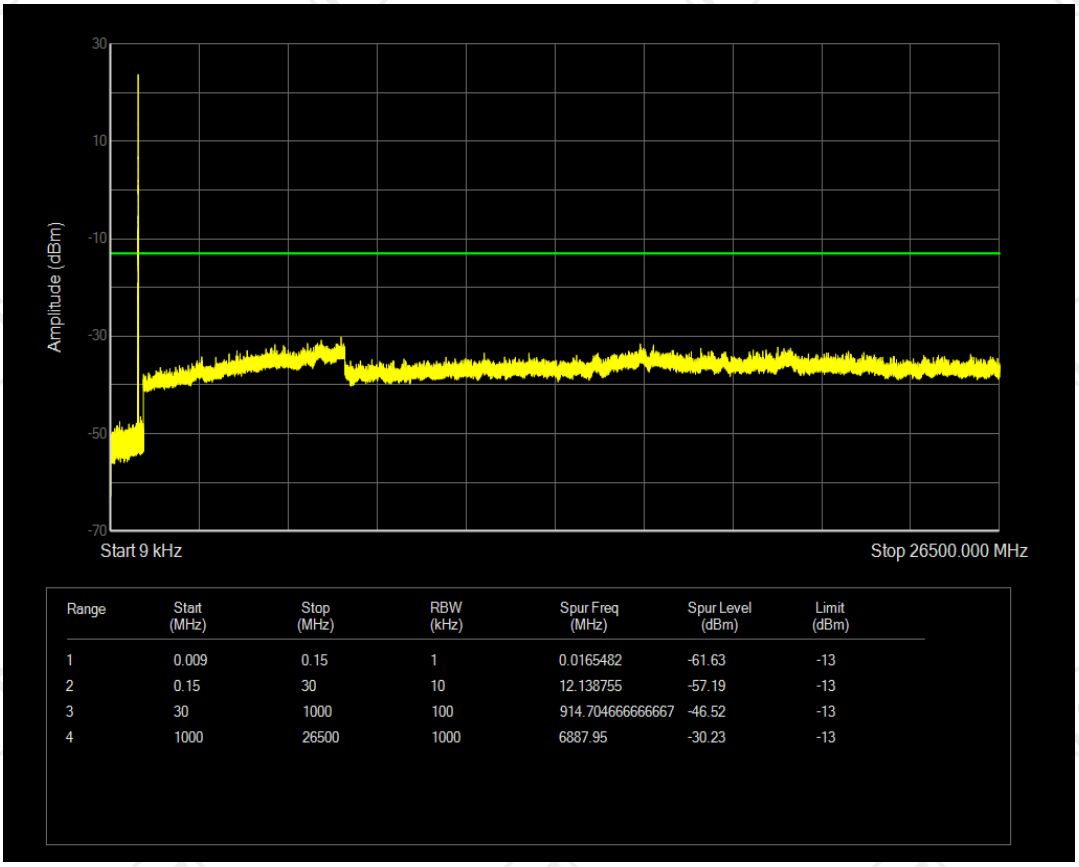
Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.055859 | -61.65 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.55 | -13 |
| 3 | 30 | 1000 | 100 | 964.950666666667 | -47.54 | -13 |
| 4 | 1000 | 26500 | 1000 | 6798.7 | -30.79 | -13 |

Band5 QPSK BW=5MHz Channel=20625 RB Size=1 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0165482 | -61.63 | -13 |
| 2 | 0.15 | 30 | 10 | 12.138755 | -57.19 | -13 |
| 3 | 30 | 1000 | 100 | 914.704666666667 | -46.52 | -13 |
| 4 | 1000 | 26500 | 1000 | 6887.95 | -30.23 | -13 |



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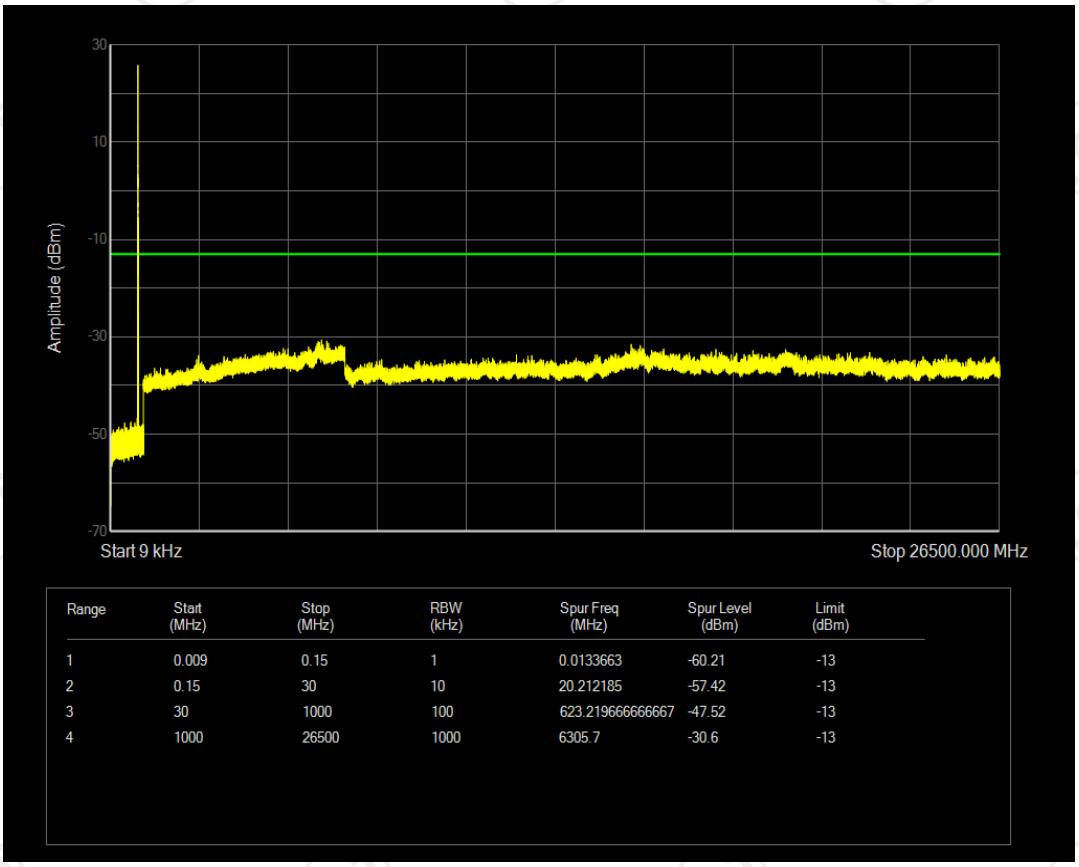
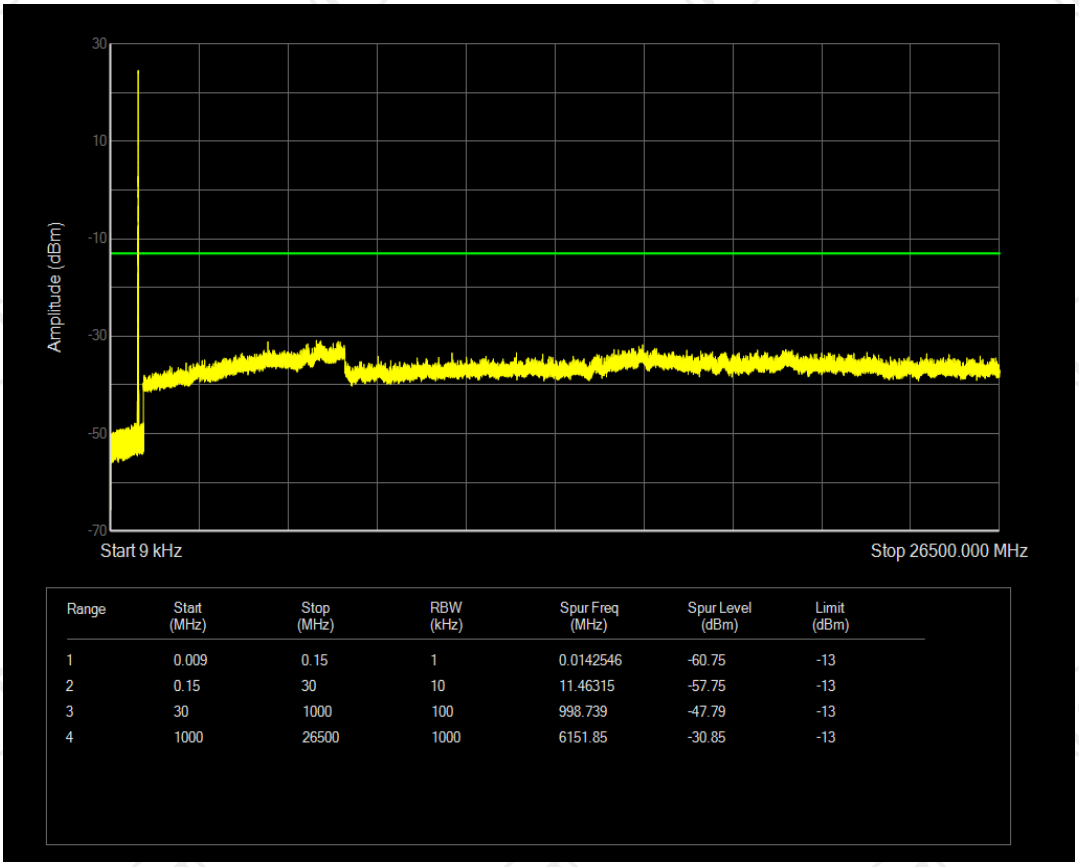
Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0



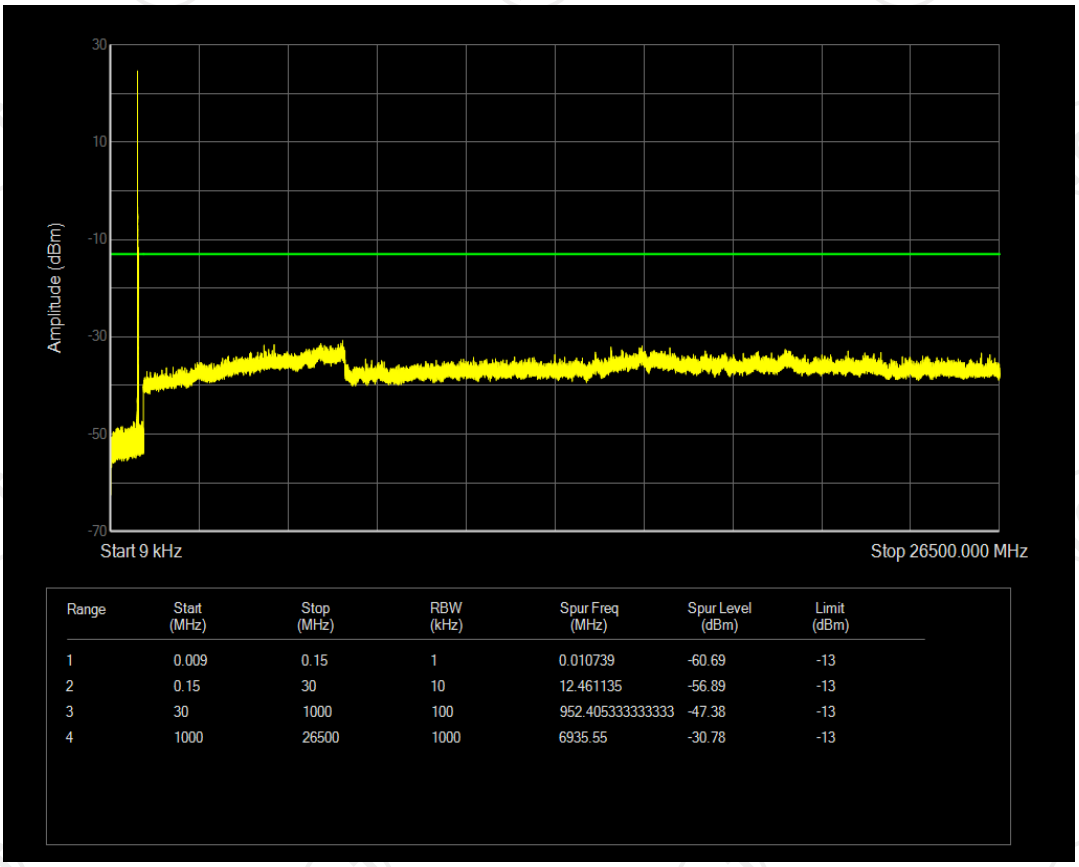

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0133663 | -60.21 | -13 |
| 2 | 0.15 | 30 | 10 | 20.212185 | -57.42 | -13 |
| 3 | 30 | 1000 | 100 | 623.219666666667 | -47.52 | -13 |
| 4 | 1000 | 26500 | 1000 | 6305.7 | -30.6 | -13 |

Band5 16QAM BW=5MHz Channel=20625 RB Size=1 Position=#0



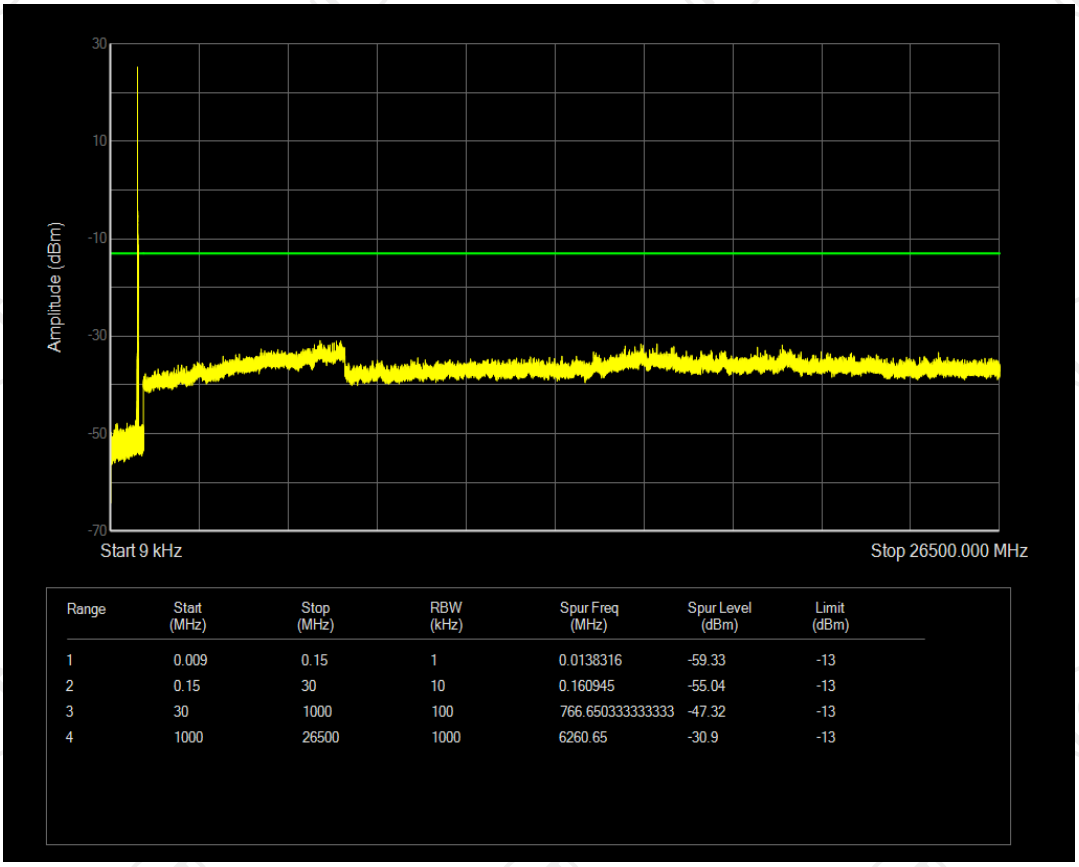

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0142546 | -60.75 | -13 |
| 2 | 0.15 | 30 | 10 | 11.46315 | -57.75 | -13 |
| 3 | 30 | 1000 | 100 | 998.739 | -47.79 | -13 |
| 4 | 1000 | 26500 | 1000 | 6151.85 | -30.85 | -13 |

Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0



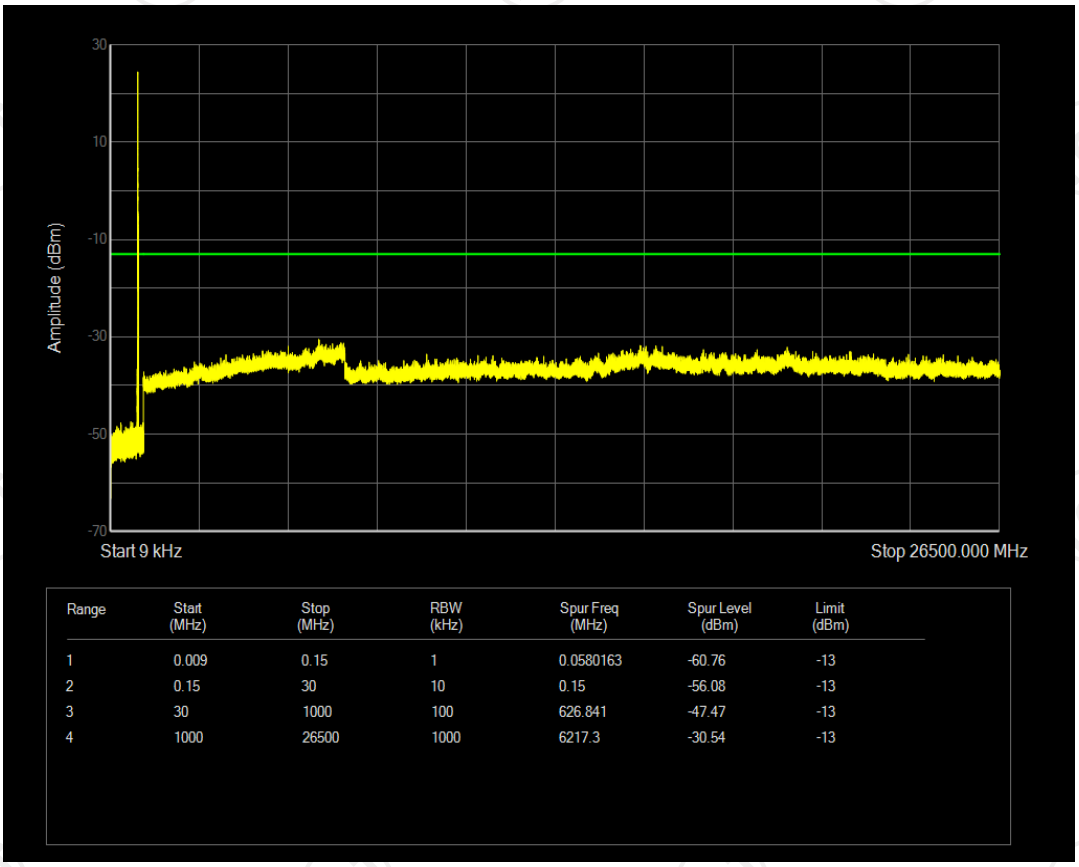

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010739 | -60.69 | -13 |
| 2 | 0.15 | 30 | 10 | 12.461135 | -56.89 | -13 |
| 3 | 30 | 1000 | 100 | 952.405333333333 | -47.38 | -13 |
| 4 | 1000 | 26500 | 1000 | 6935.55 | -30.78 | -13 |

Band5 16QAM BW=10MHz Channel=20450 RB Size=1 Position=#0



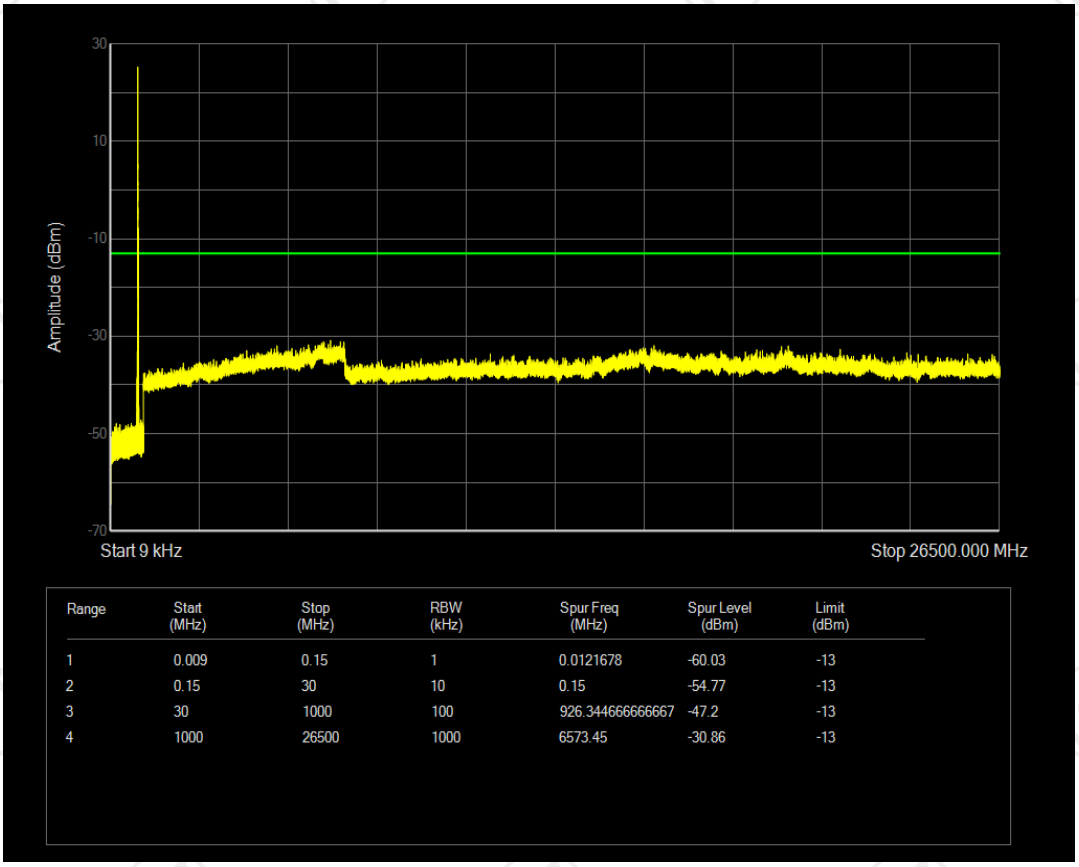

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0138316 | -59.33 | -13 |
| 2 | 0.15 | 30 | 10 | 0.160945 | -55.04 | -13 |
| 3 | 30 | 1000 | 100 | 766.650333333333 | -47.32 | -13 |
| 4 | 1000 | 26500 | 1000 | 6260.65 | -30.9 | -13 |

Band5 QPSK BW=10MHz Channel=20525 RB Size=1 Position=#0



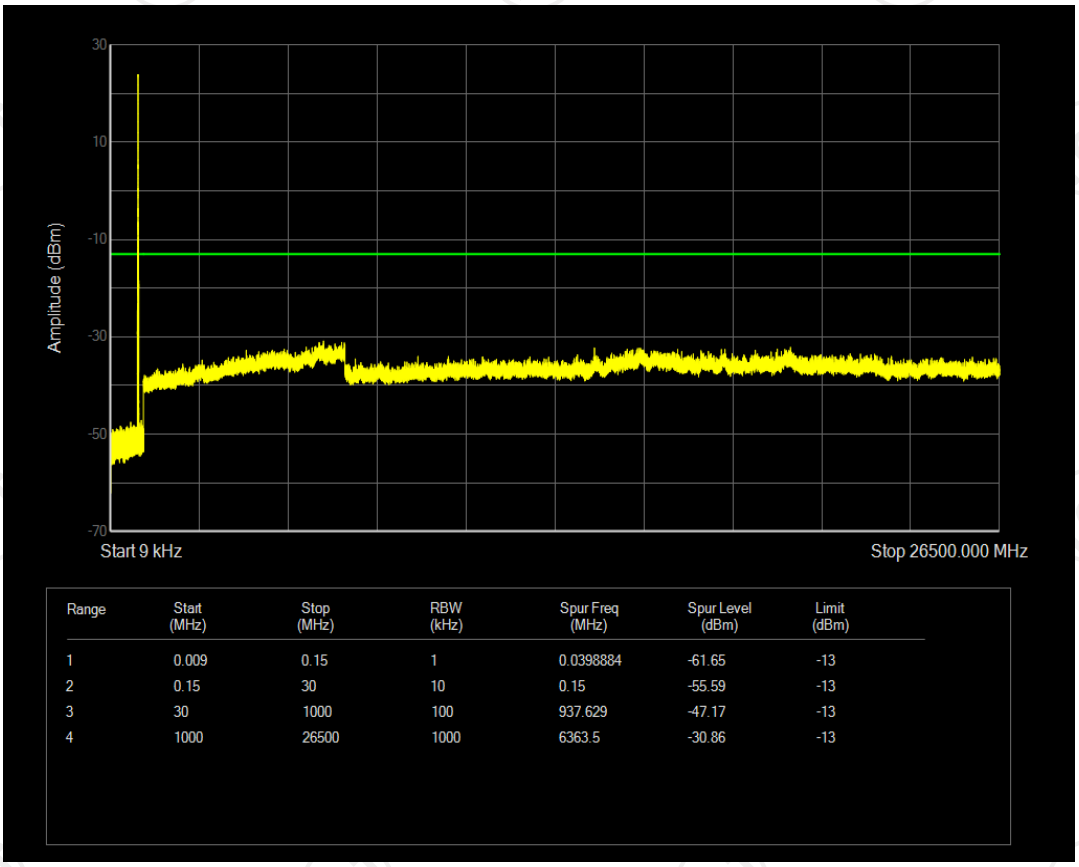

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0580163 | -60.76 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.08 | -13 |
| 3 | 30 | 1000 | 100 | 626.841 | -47.47 | -13 |
| 4 | 1000 | 26500 | 1000 | 6217.3 | -30.54 | -13 |

Band5 16QAM BW=10MHz Channel=20525 RB Size=1 Position=#0



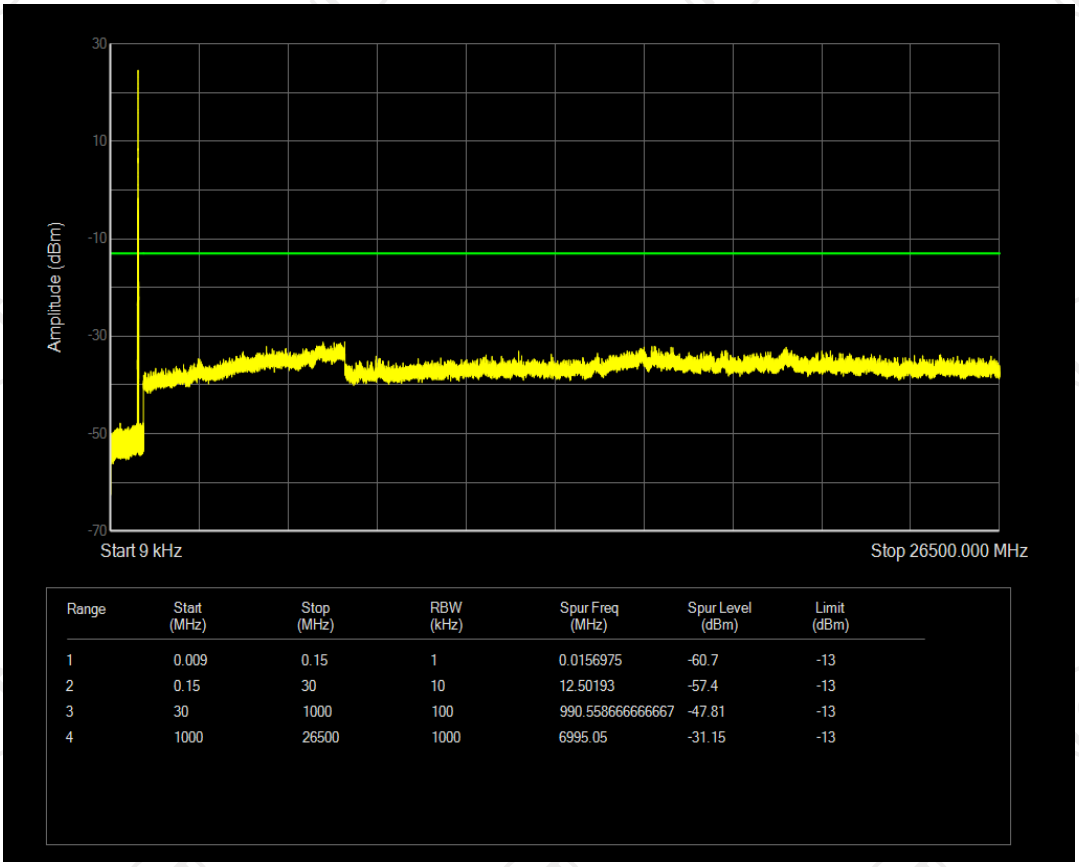

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0121678 | -60.03 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -54.77 | -13 |
| 3 | 30 | 1000 | 100 | 926.344666666667 | -47.2 | -13 |
| 4 | 1000 | 26500 | 1000 | 6573.45 | -30.86 | -13 |

Band5 QPSK BW=10MHz Channel=20600 RB Size=1 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0398884 | -61.65 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.59 | -13 |
| 3 | 30 | 1000 | 100 | 937.629 | -47.17 | -13 |
| 4 | 1000 | 26500 | 1000 | 6363.5 | -30.86 | -13 |

Band5 16QAM BW=10MHz Channel=20600 RB Size=1 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0156975 | -60.7 | -13 |
| 2 | 0.15 | 30 | 10 | 12.50193 | -57.4 | -13 |
| 3 | 30 | 1000 | 100 | 990.558666666667 | -47.81 | -13 |
| 4 | 1000 | 26500 | 1000 | 6995.05 | -31.15 | -13 |



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