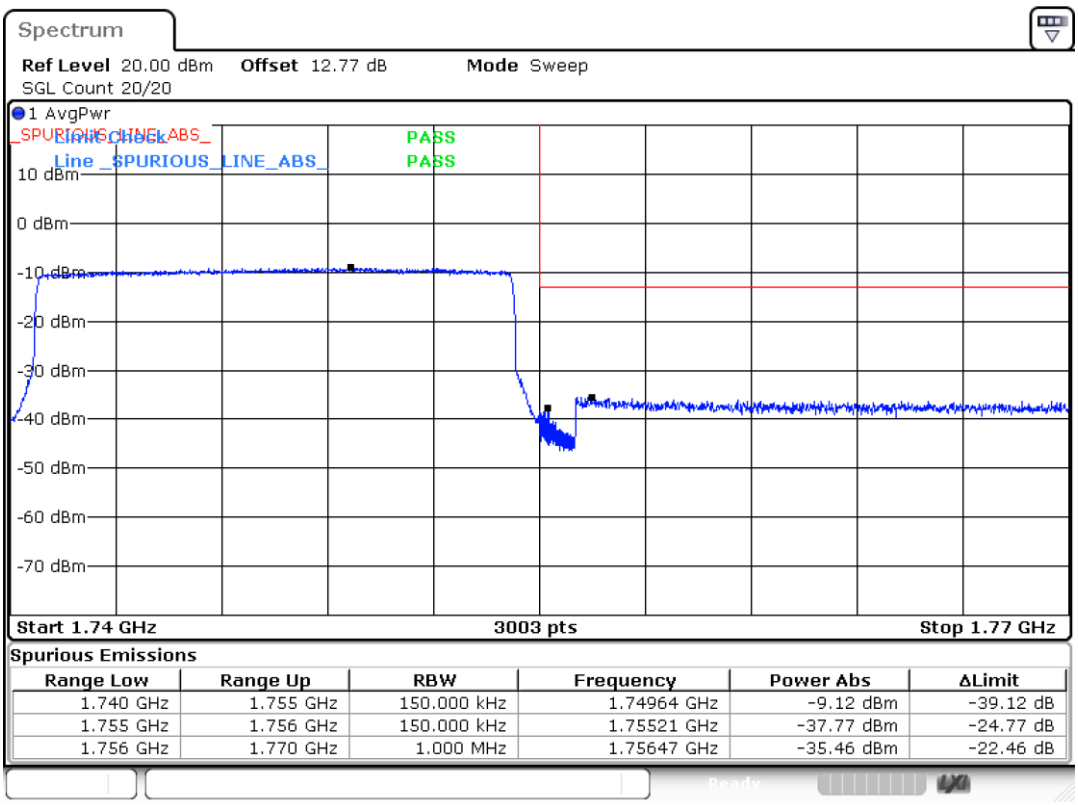
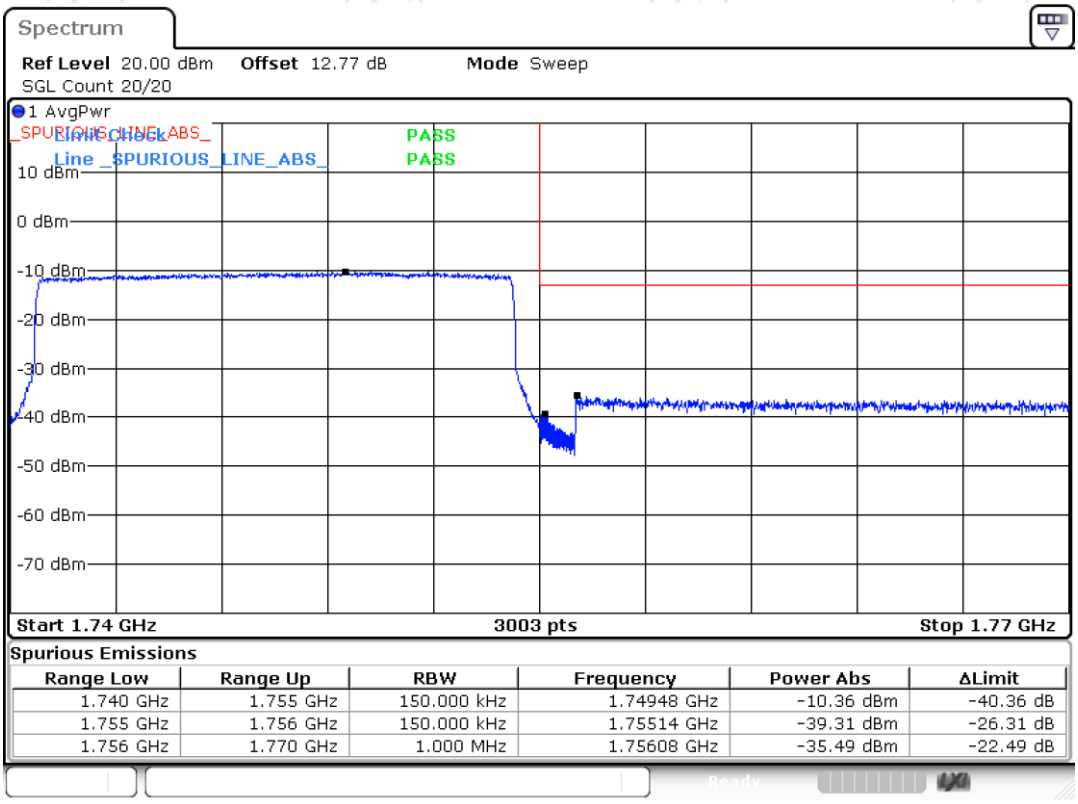
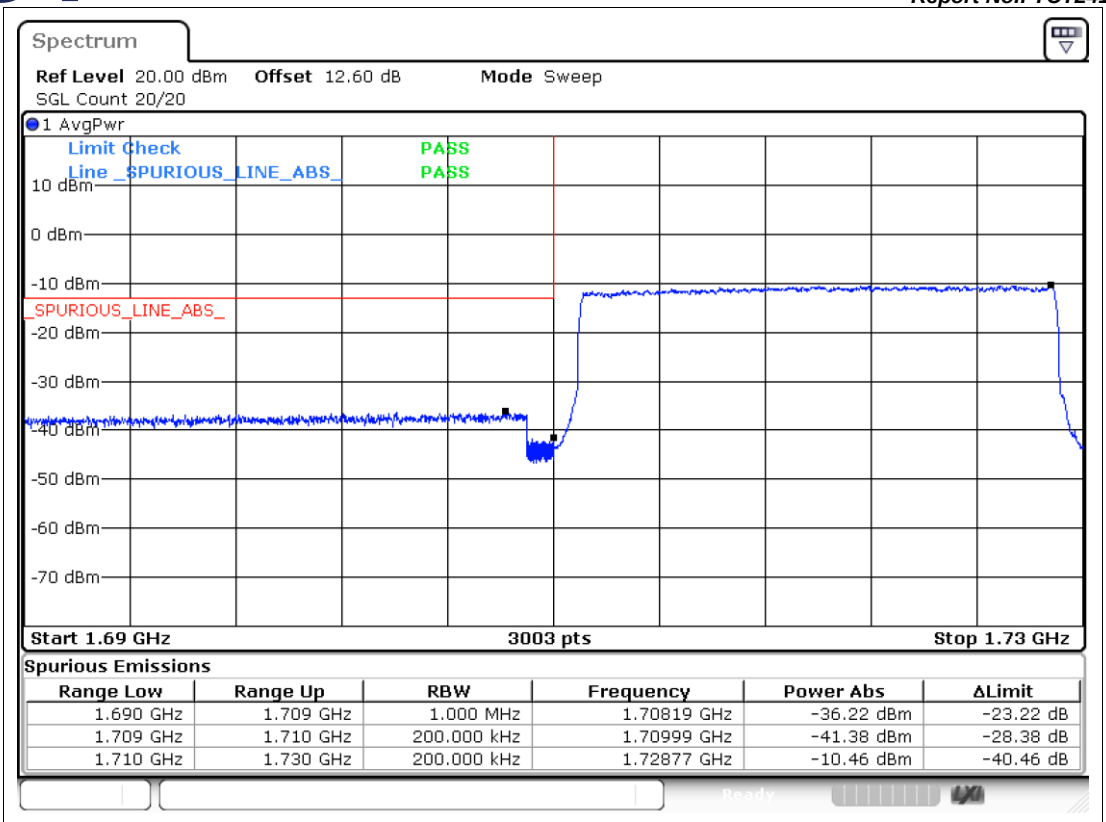


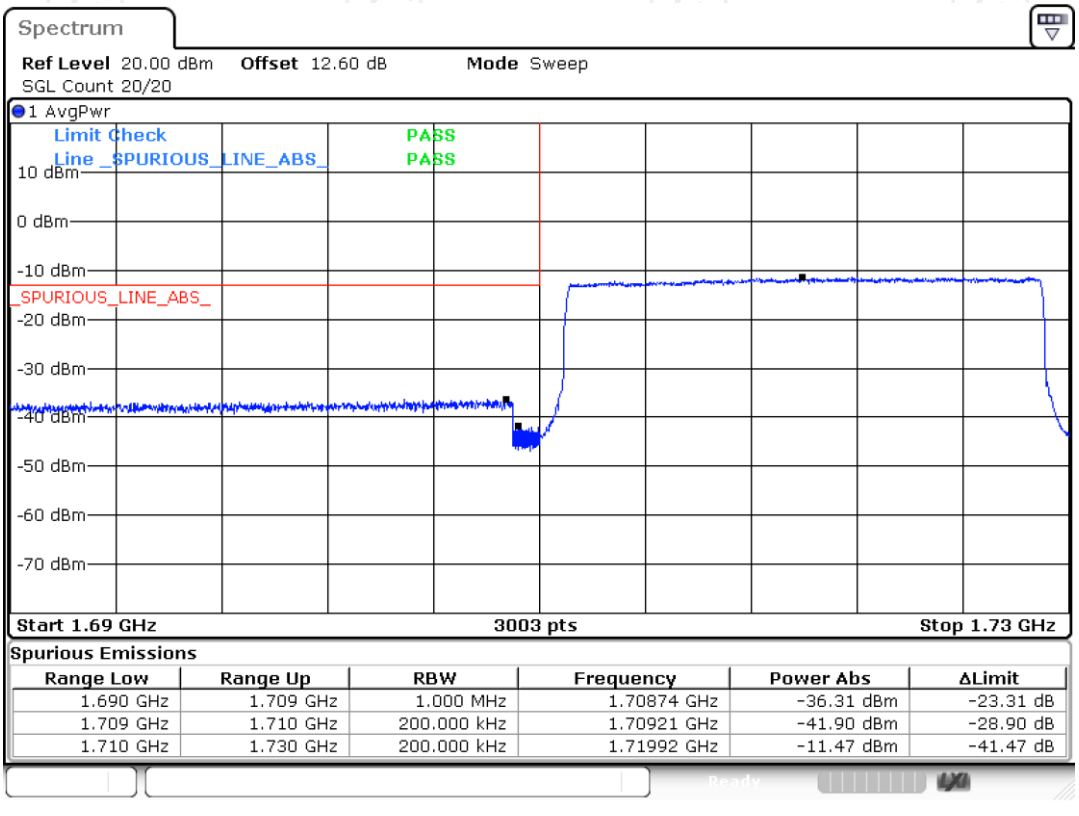

Band4 QPSK BW=15MHz HighChannel=20325 RB Size=75 Position=#0



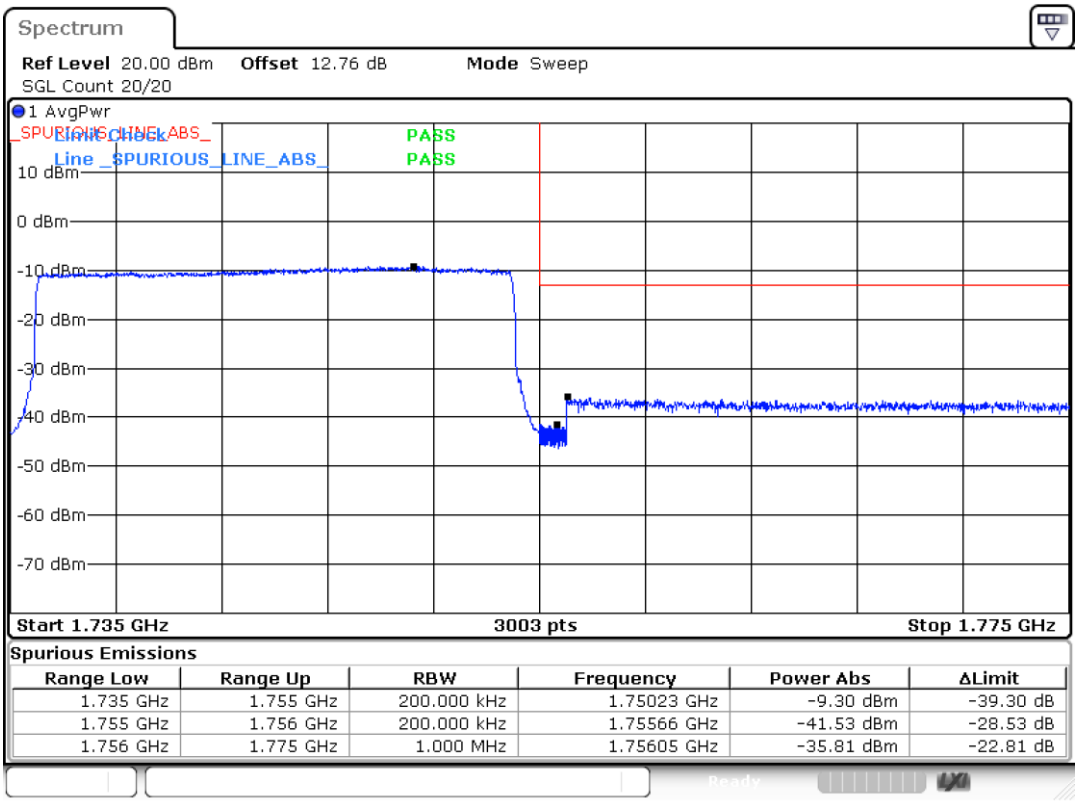

Band4 16QAM BW=15MHz HighChannel=20325 RB Size=75 Position=#0



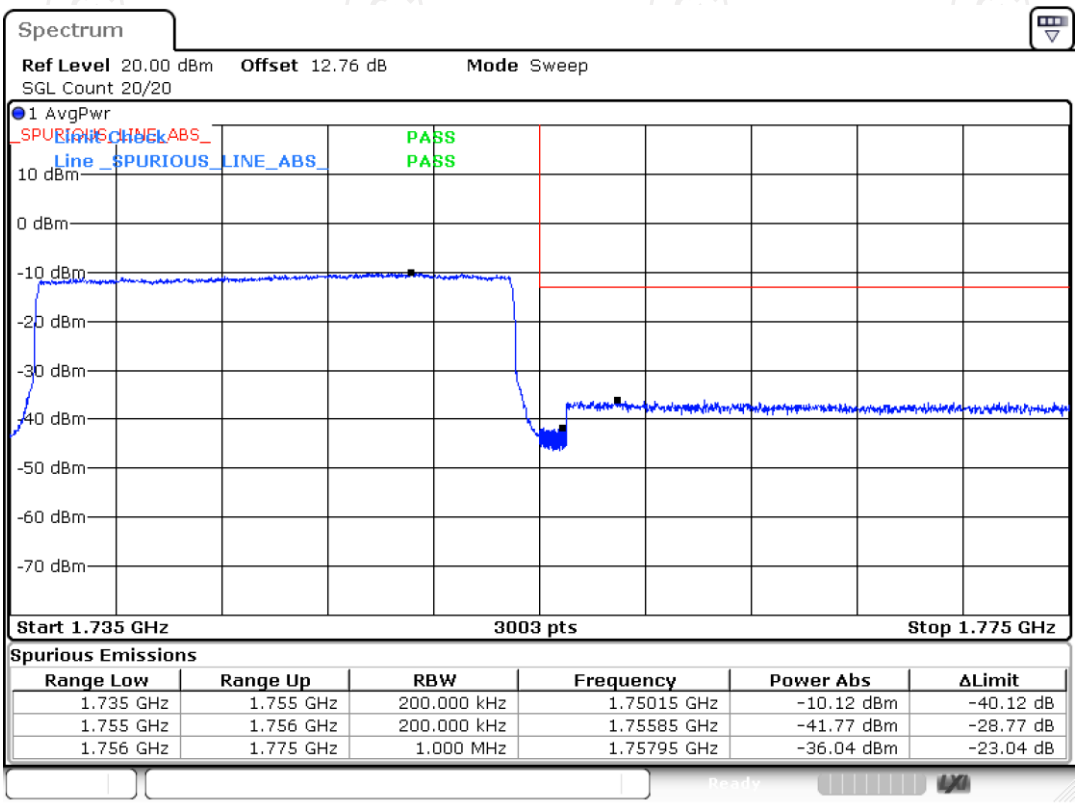

Band4 QPSK BW=20MHz LowChannel=20050 RB Size=100 Position=#0




Band4 16QAM BW=20MHz LowChannel=20050 RB Size=100 Position=#0




Band4 QPSK BW=20MHz HighChannel=20300 RB Size=100 Position=#0




Band4 16QAM BW=20MHz HighChannel=20300 RB Size=100 Position=#0

## 06. Out-of-band emissions

| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band4 | 1.4 | 19957 | 6 | #0 | QPSK | 6865.00 | -23.93 | -13 | PASS |
| Band4 | 1.4 | 19957 | 6 | #0 | 16QAM | 6300.60 | -24.31 | -13 | PASS |
| Band4 | 1.4 | 20393 | 6 | #0 | QPSK | 6889.65 | -23.79 | -13 | PASS |
| Band4 | 1.4 | 20393 | 6 | #0 | 16QAM | 6302.30 | -23.66 | -13 | PASS |
| Band4 | 3 | 19965 | 15 | #0 | QPSK | 6219.00 | -24.13 | -13 | PASS |
| Band4 | 3 | 19965 | 15 | #0 | 16QAM | 6198.60 | -23.89 | -13 | PASS |
| Band4 | 3 | 20385 | 15 | #0 | QPSK | 20434.40 | -23.00 | -13 | PASS |
| Band4 | 3 | 20385 | 15 | #0 | 16QAM | 6830.15 | -23.35 | -13 | PASS |
| Band4 | 5 | 19975 | 25 | #0 | QPSK | 6989.10 | -24.20 | -13 | PASS |
| Band4 | 5 | 19975 | 25 | #0 | 16QAM | 6851.40 | -23.87 | -13 | PASS |
| Band4 | 5 | 20375 | 25 | #0 | QPSK | 6780.00 | -23.20 | -13 | PASS |
| Band4 | 5 | 20375 | 25 | #0 | 16QAM | 6212.20 | -24.06 | -13 | PASS |
| Band4 | 10 | 20000 | 50 | #0 | QPSK | 6277.65 | -24.07 | -13 | PASS |
| Band4 | 10 | 20000 | 50 | #0 | 16QAM | 6281.05 | -23.58 | -13 | PASS |
| Band4 | 10 | 20350 | 50 | #0 | QPSK | 6853.95 | -23.53 | -13 | PASS |
| Band4 | 10 | 20350 | 50 | #0 | 16QAM | 6324.40 | -24.10 | -13 | PASS |
| Band4 | 15 | 20025 | 75 | #0 | QPSK | 6608.30 | -23.79 | -13 | PASS |
| Band4 | 15 | 20025 | 75 | #0 | 16QAM | 6833.55 | -24.21 | -13 | PASS |
| Band4 | 15 | 20325 | 75 | #0 | QPSK | 6226.65 | -24.10 | -13 | PASS |
| Band4 | 15 | 20325 | 75 | #0 | 16QAM | 6884.55 | -23.97 | -13 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QPSK | 6273.40 | -24.18 | -13 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | 16QAM | 6279.35 | -23.92 | -13 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QPSK | 6885.40 | -23.62 | -13 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | 16QAM | 6959.35 | -23.70 | -13 | PASS |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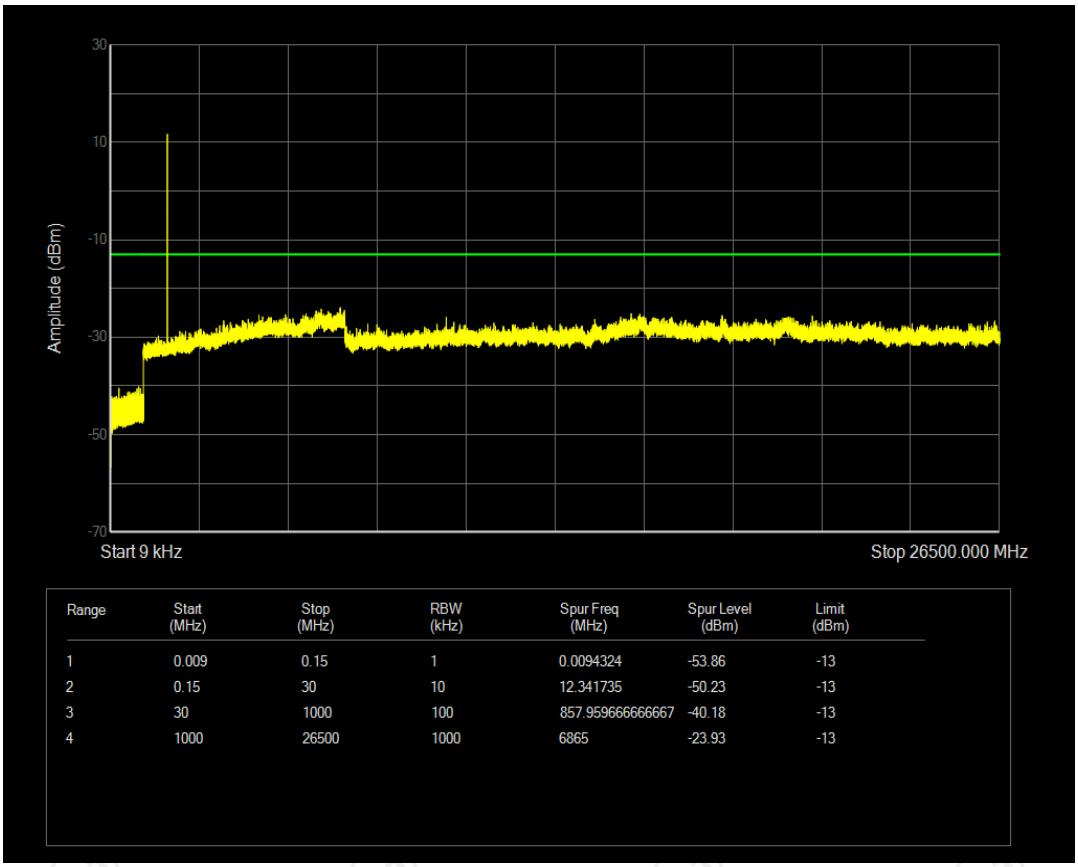
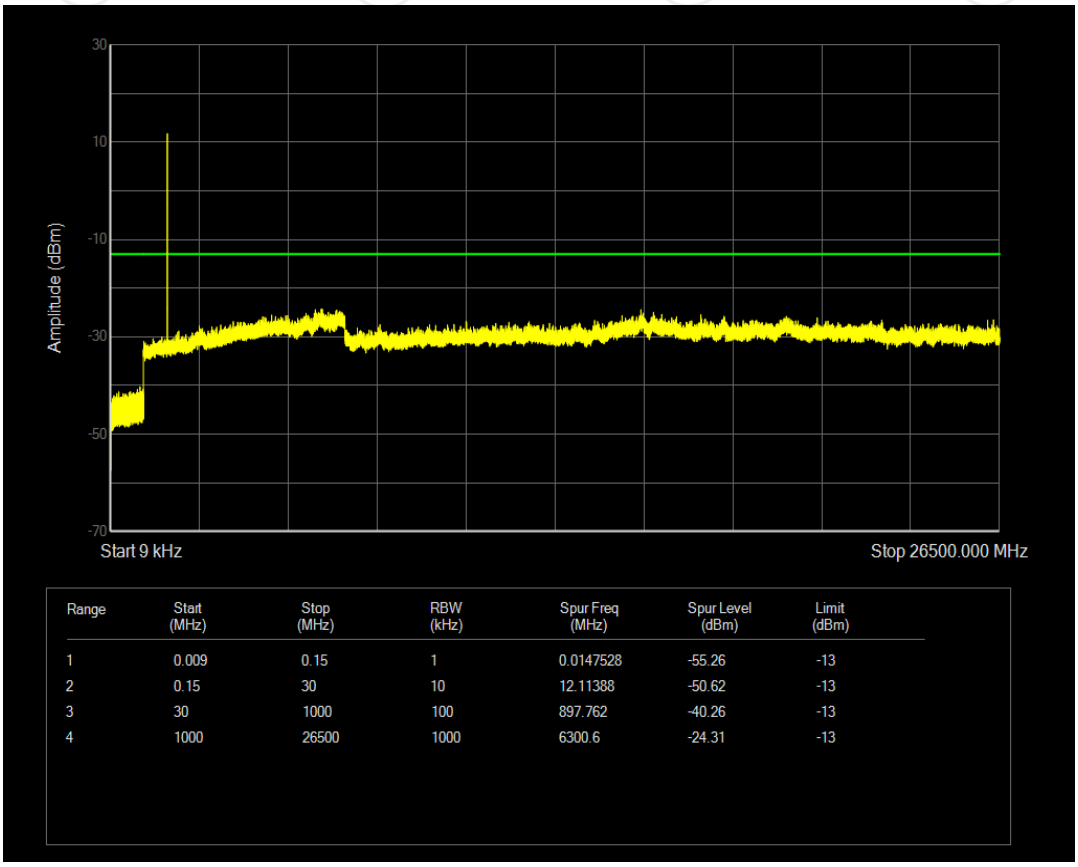
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



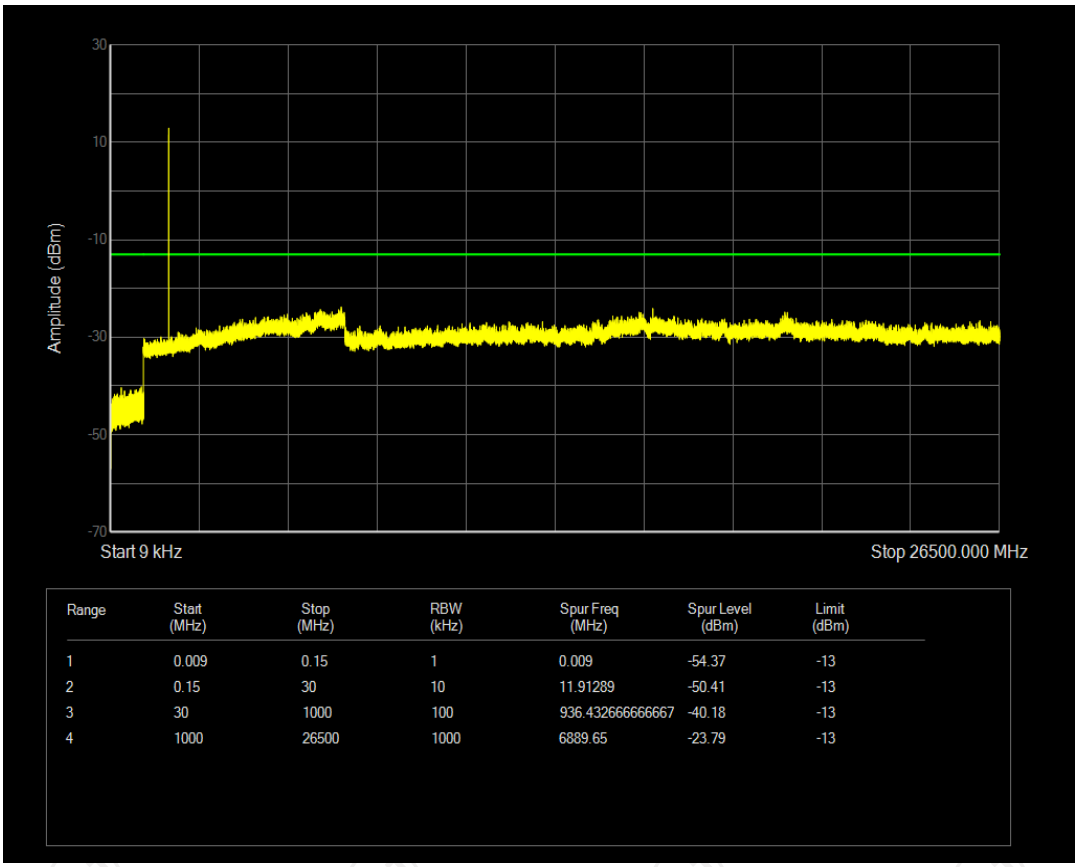

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0094324 | -53.86 | -13 |
| 2 | 0.15 | 30 | 10 | 12.341735 | -50.23 | -13 |
| 3 | 30 | 1000 | 100 | 857.959666666667 | -40.18 | -13 |
| 4 | 1000 | 26500 | 1000 | 6865 | -23.93 | -13 |

Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



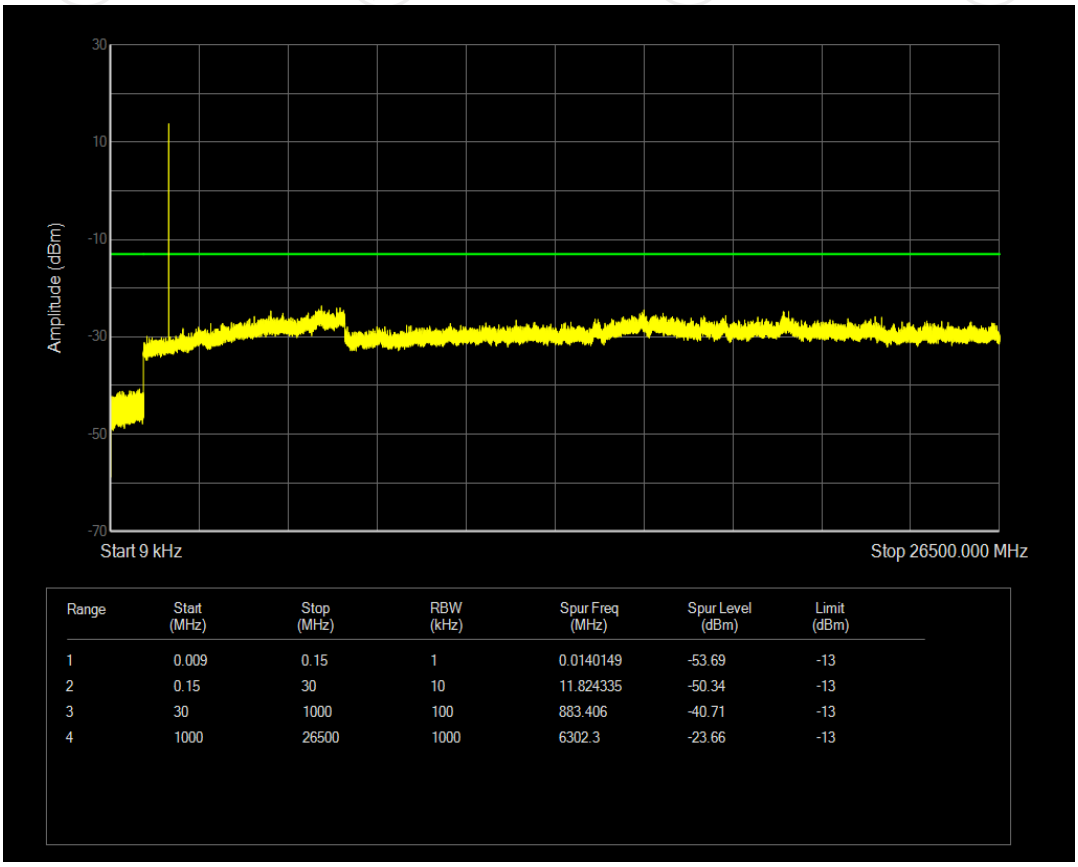

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0147528 | -55.26 | -13 |
| 2 | 0.15 | 30 | 10 | 12.11388 | -50.62 | -13 |
| 3 | 30 | 1000 | 100 | 897.762 | -40.26 | -13 |
| 4 | 1000 | 26500 | 1000 | 6300.6 | -24.31 | -13 |

Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



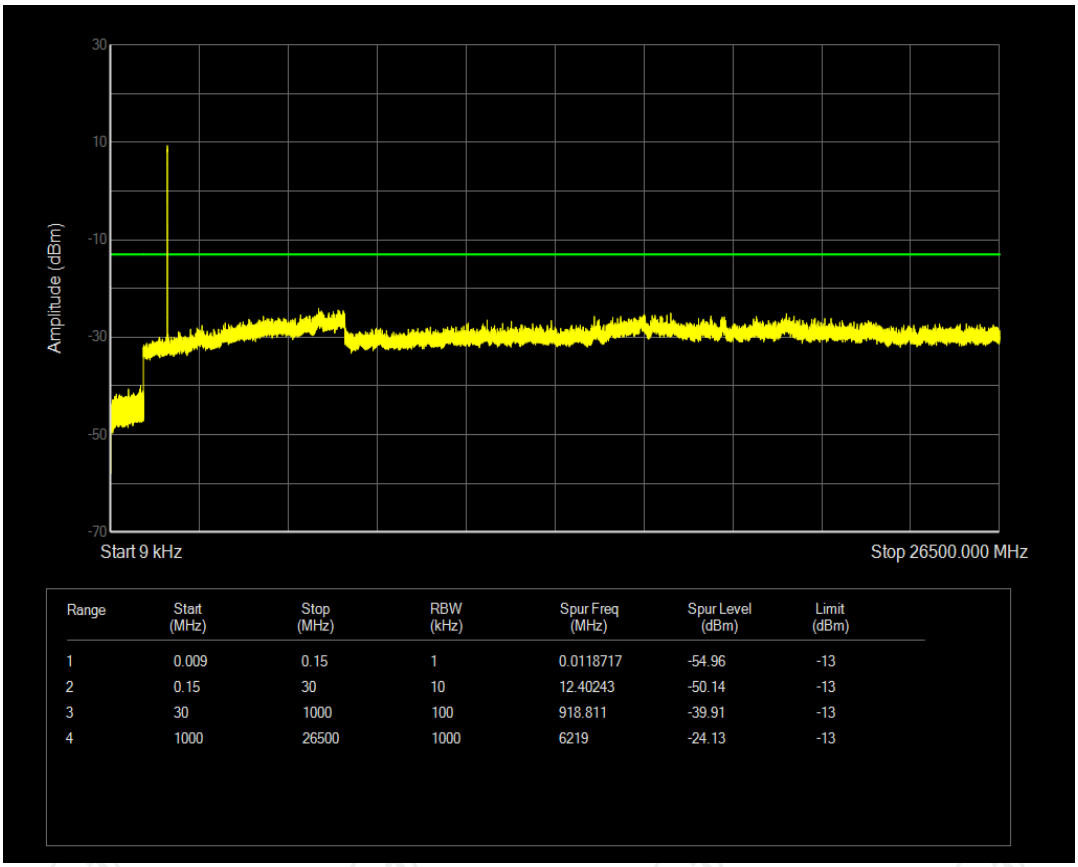

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.37 | -13 |
| 2 | 0.15 | 30 | 10 | 11.91289 | -50.41 | -13 |
| 3 | 30 | 1000 | 100 | 936.432666666667 | -40.18 | -13 |
| 4 | 1000 | 26500 | 1000 | 6889.65 | -23.79 | -13 |

Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



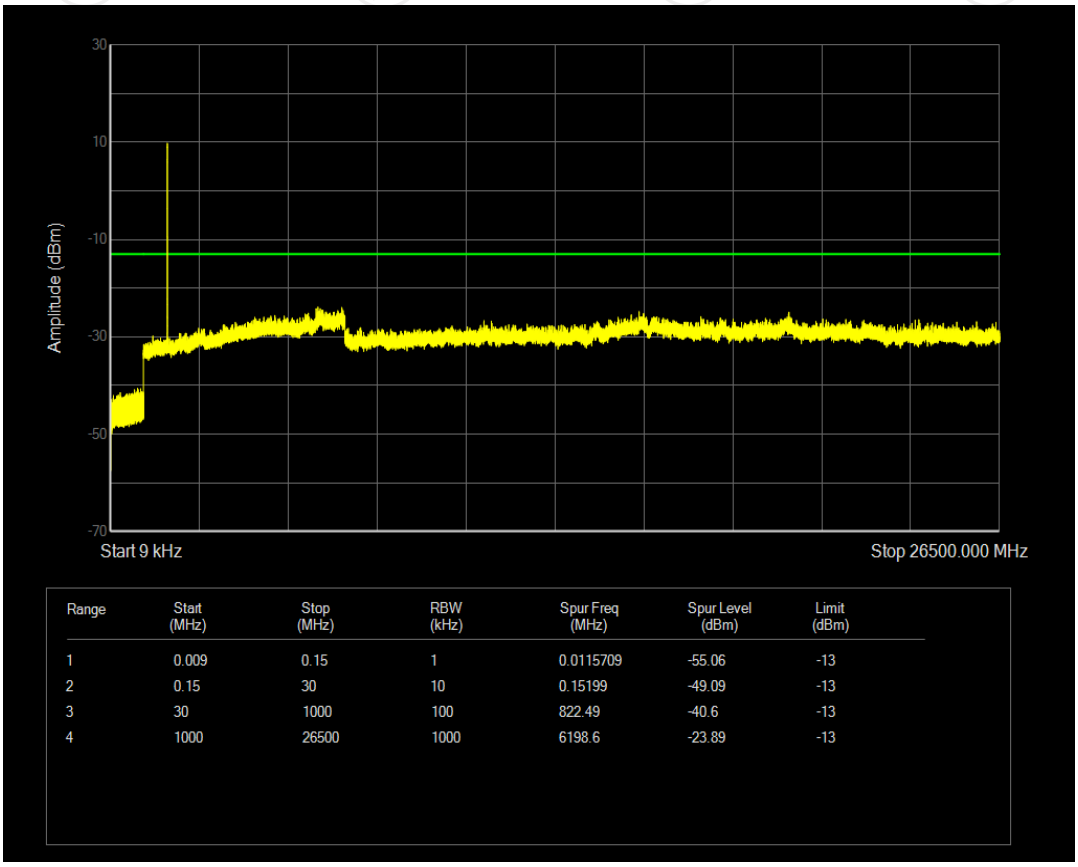

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0140149 | -53.69 | -13 |
| 2 | 0.15 | 30 | 10 | 11.824335 | -50.34 | -13 |
| 3 | 30 | 1000 | 100 | 883.406 | -40.71 | -13 |
| 4 | 1000 | 26500 | 1000 | 6302.3 | -23.66 | -13 |

Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



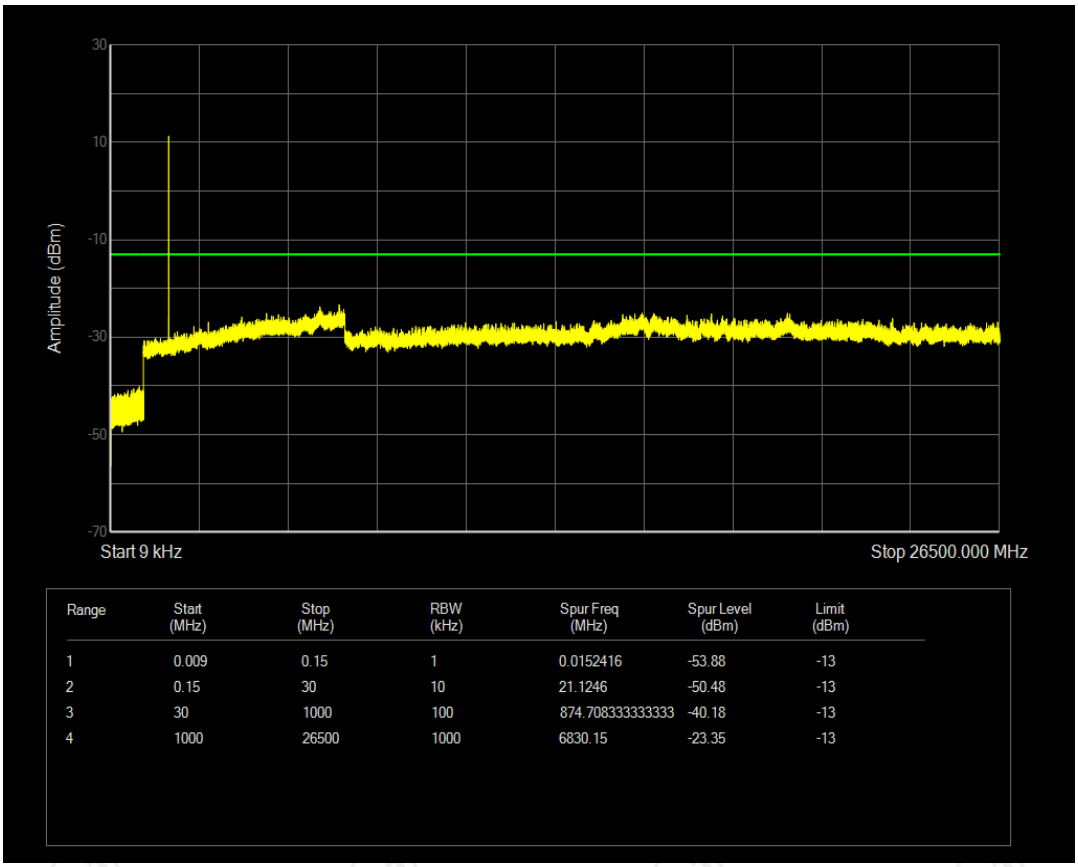

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0118717 | -54.96 | -13 |
| 2 | 0.15 | 30 | 10 | 12.40243 | -50.14 | -13 |
| 3 | 30 | 1000 | 100 | 918.811 | -39.91 | -13 |
| 4 | 1000 | 26500 | 1000 | 6219 | -24.13 | -13 |

Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



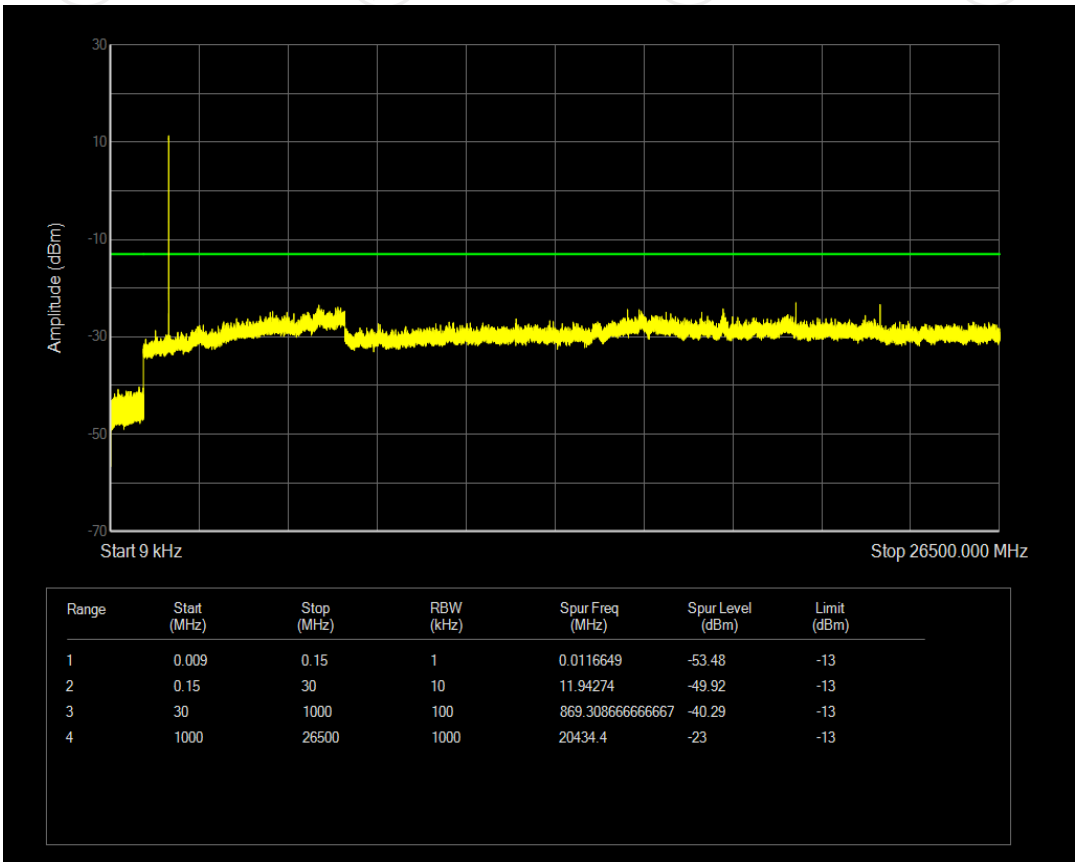

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0115709 | -55.06 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15199 | -49.09 | -13 |
| 3 | 30 | 1000 | 100 | 822.49 | -40.6 | -13 |
| 4 | 1000 | 26500 | 1000 | 6198.6 | -23.89 | -13 |

Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



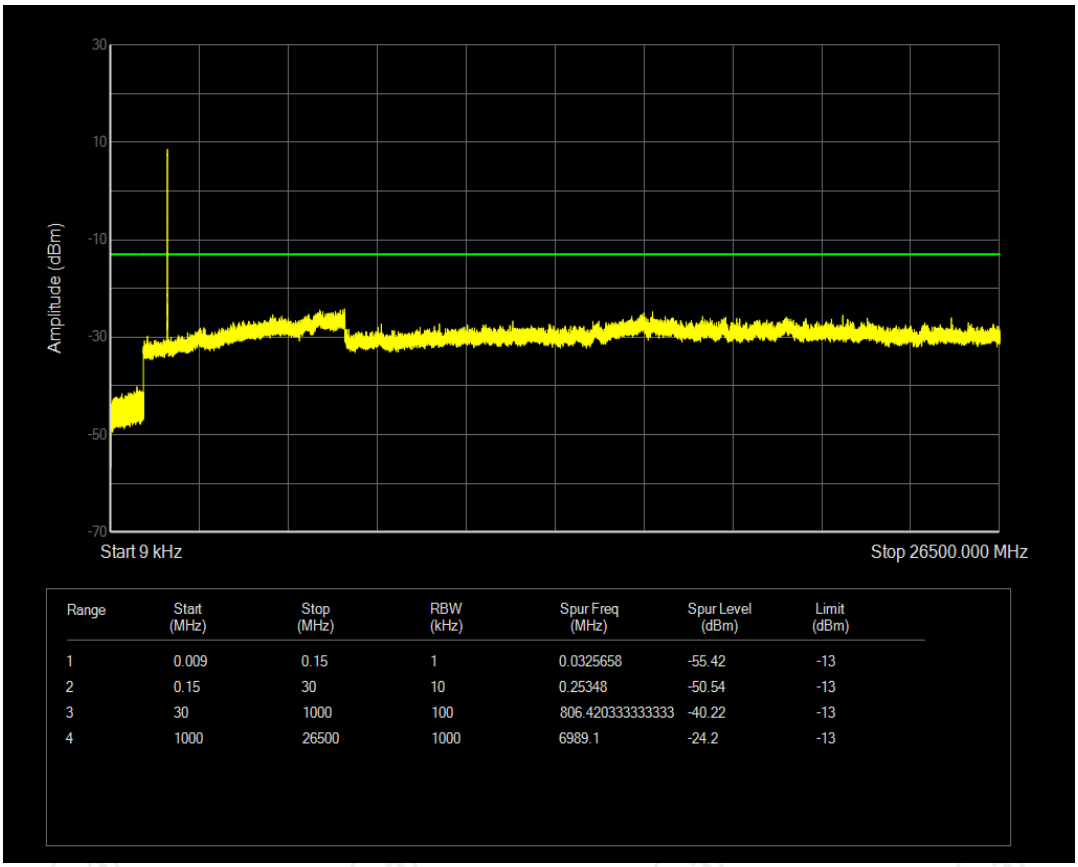

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0152416 | -53.88 | -13 |
| 2 | 0.15 | 30 | 10 | 21.1246 | -50.48 | -13 |
| 3 | 30 | 1000 | 100 | 874.708333333333 | -40.18 | -13 |
| 4 | 1000 | 26500 | 1000 | 6830.15 | -23.35 | -13 |

Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



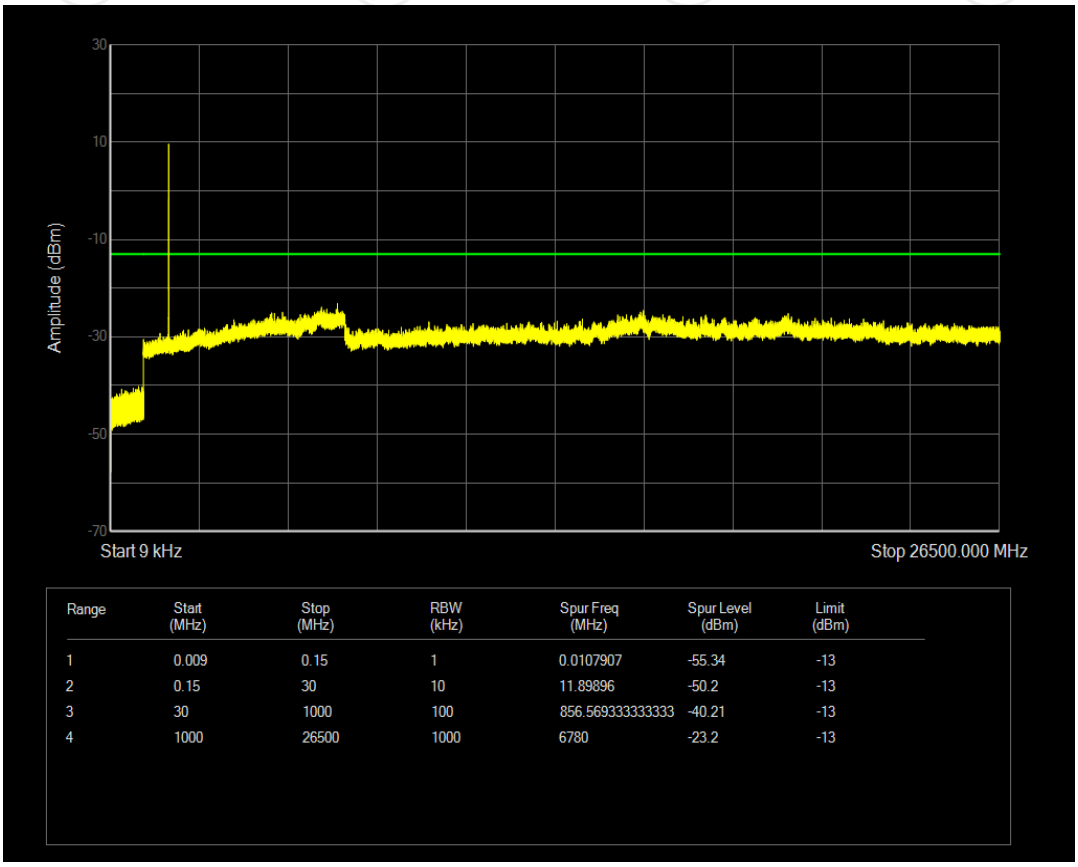

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0116649 | -53.48 | -13 |
| 2 | 0.15 | 30 | 10 | 11.94274 | -49.92 | -13 |
| 3 | 30 | 1000 | 100 | 869.308666666667 | -40.29 | -13 |
| 4 | 1000 | 26500 | 1000 | 20434.4 | -23 | -13 |

Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



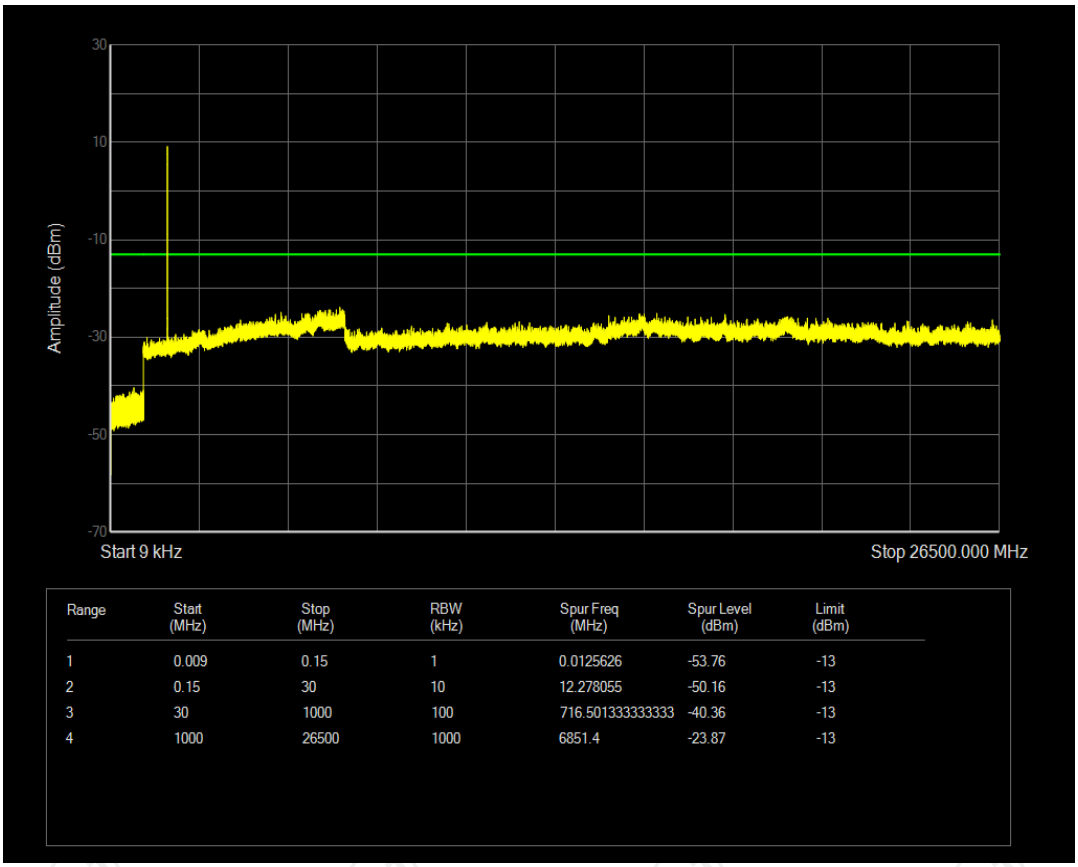

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0325658 | -55.42 | -13 |
| 2 | 0.15 | 30 | 10 | 0.25348 | -50.54 | -13 |
| 3 | 30 | 1000 | 100 | 806.420333333333 | -40.22 | -13 |
| 4 | 1000 | 26500 | 1000 | 6989.1 | -24.2 | -13 |

Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



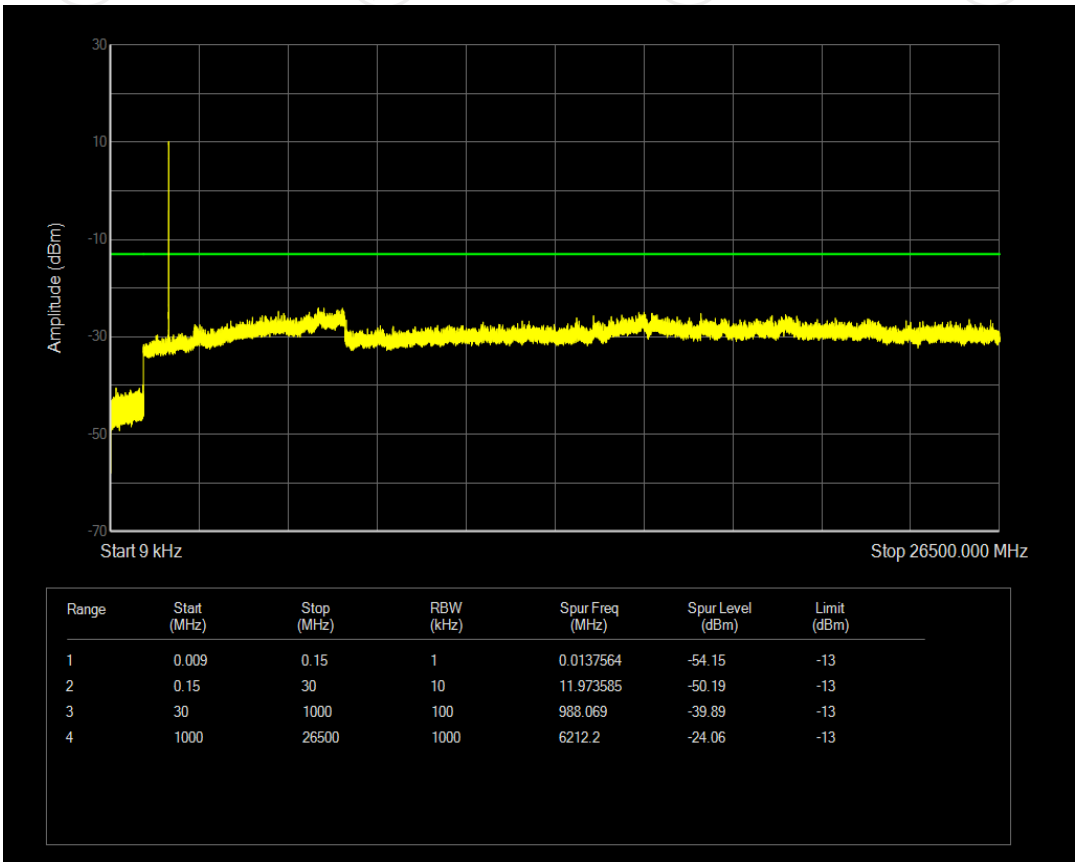

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0107907 | -55.34 | -13 |
| 2 | 0.15 | 30 | 10 | 11.89896 | -50.2 | -13 |
| 3 | 30 | 1000 | 100 | 856.569333333333 | -40.21 | -13 |
| 4 | 1000 | 26500 | 1000 | 6780 | -23.2 | -13 |

Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



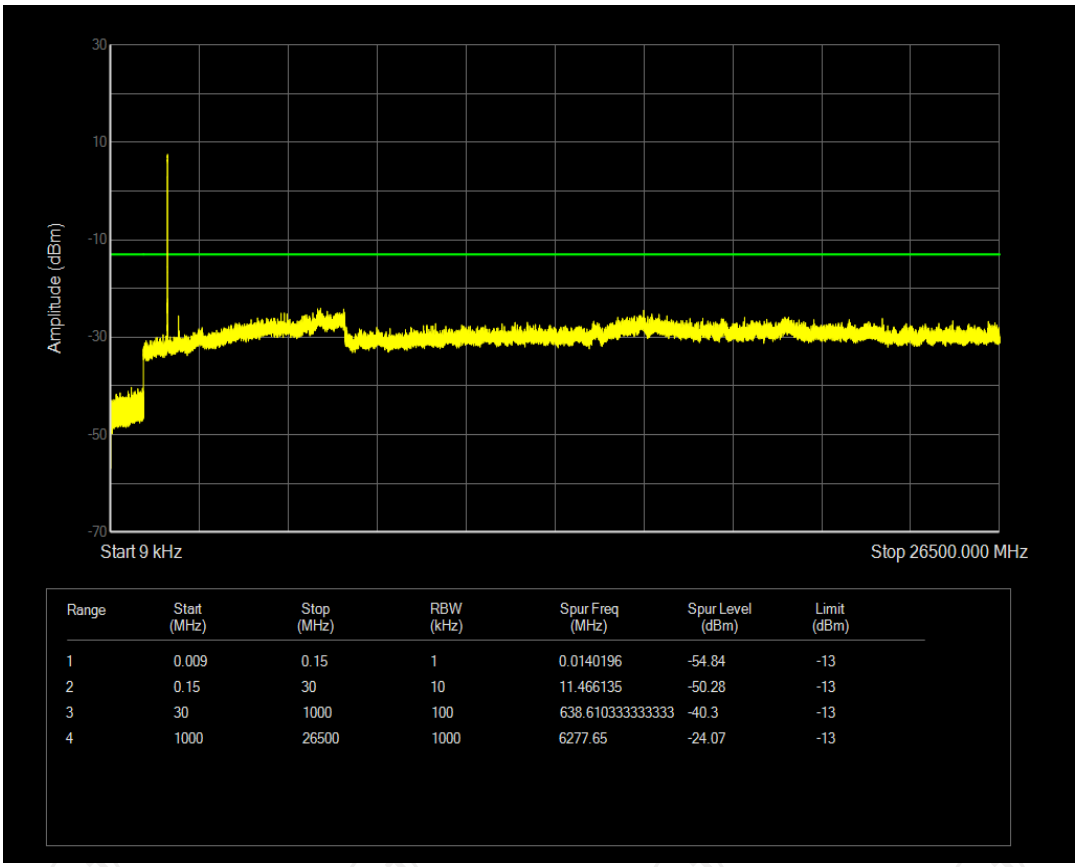

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0125626 | -53.76 | -13 |
| 2 | 0.15 | 30 | 10 | 12.278055 | -50.16 | -13 |
| 3 | 30 | 1000 | 100 | 716.501333333333 | -40.36 | -13 |
| 4 | 1000 | 26500 | 1000 | 6851.4 | -23.87 | -13 |

Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



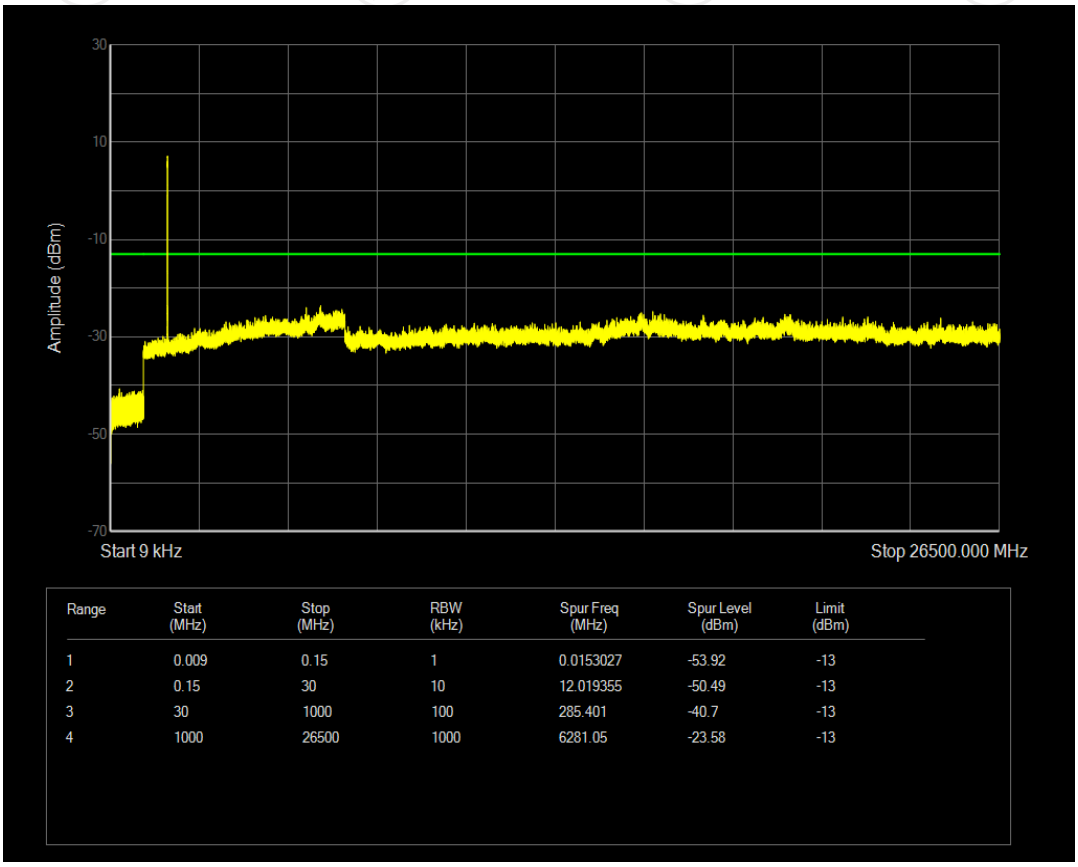

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0137564 | -54.15 | -13 |
| 2 | 0.15 | 30 | 10 | 11.973585 | -50.19 | -13 |
| 3 | 30 | 1000 | 100 | 988.069 | -39.89 | -13 |
| 4 | 1000 | 26500 | 1000 | 6212.2 | -24.06 | -13 |

Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0140196 | -54.84 | -13 |
| 2 | 0.15 | 30 | 10 | 11.466135 | -50.28 | -13 |
| 3 | 30 | 1000 | 100 | 638.610333333333 | -40.3 | -13 |
| 4 | 1000 | 26500 | 1000 | 6277.65 | -24.07 | -13 |

Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0153027 | -53.92 | -13 |
| 2 | 0.15 | 30 | 10 | 12.019355 | -50.49 | -13 |
| 3 | 30 | 1000 | 100 | 285.401 | -40.7 | -13 |
| 4 | 1000 | 26500 | 1000 | 6281.05 | -23.58 | -13 |



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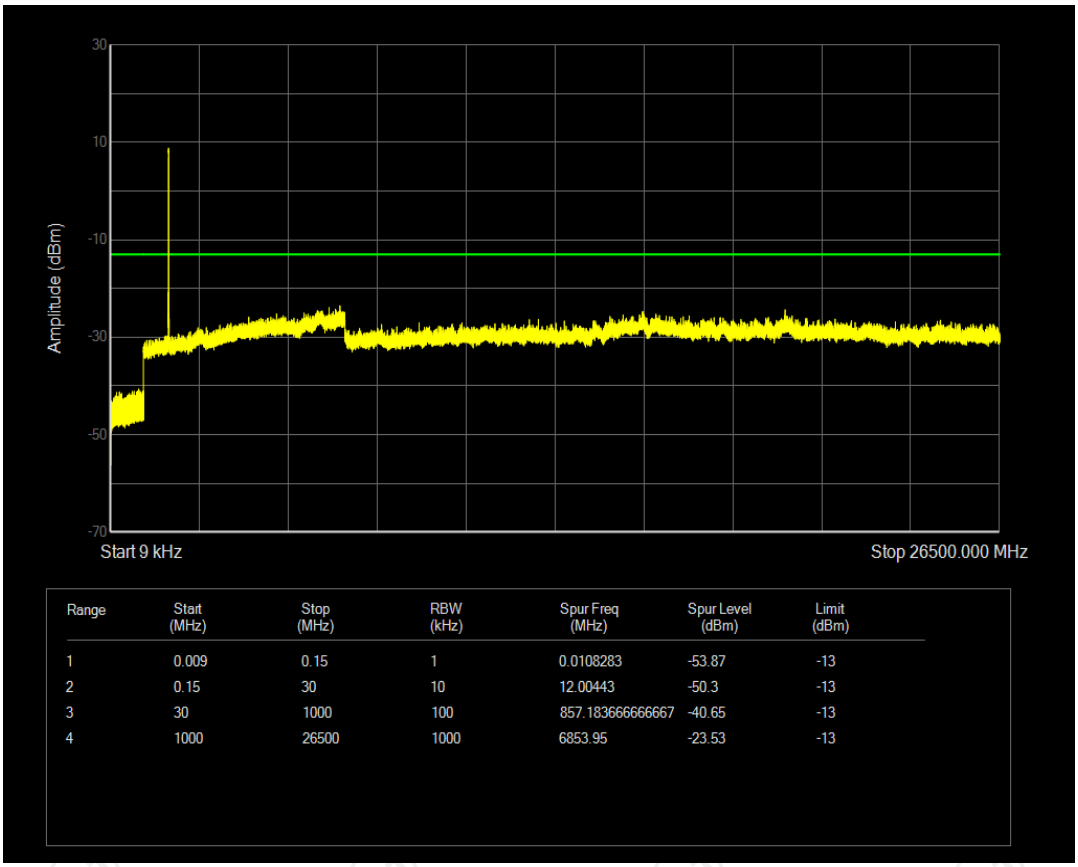
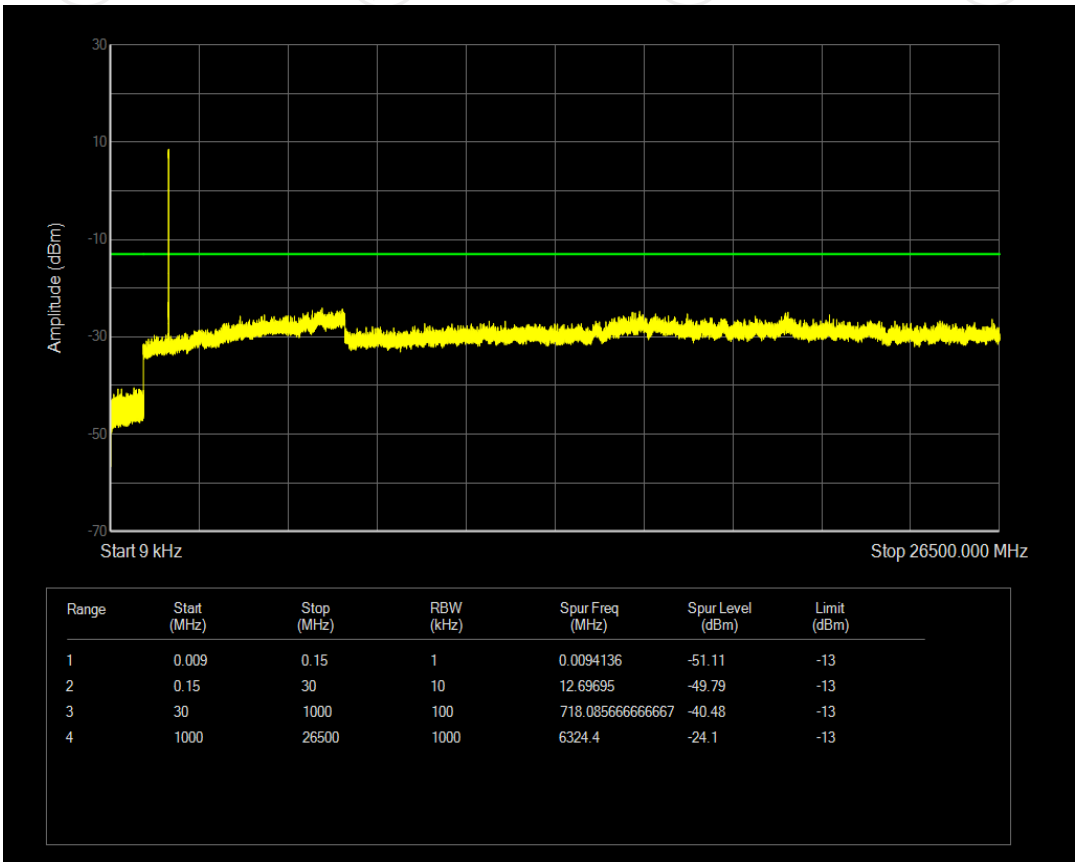
Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



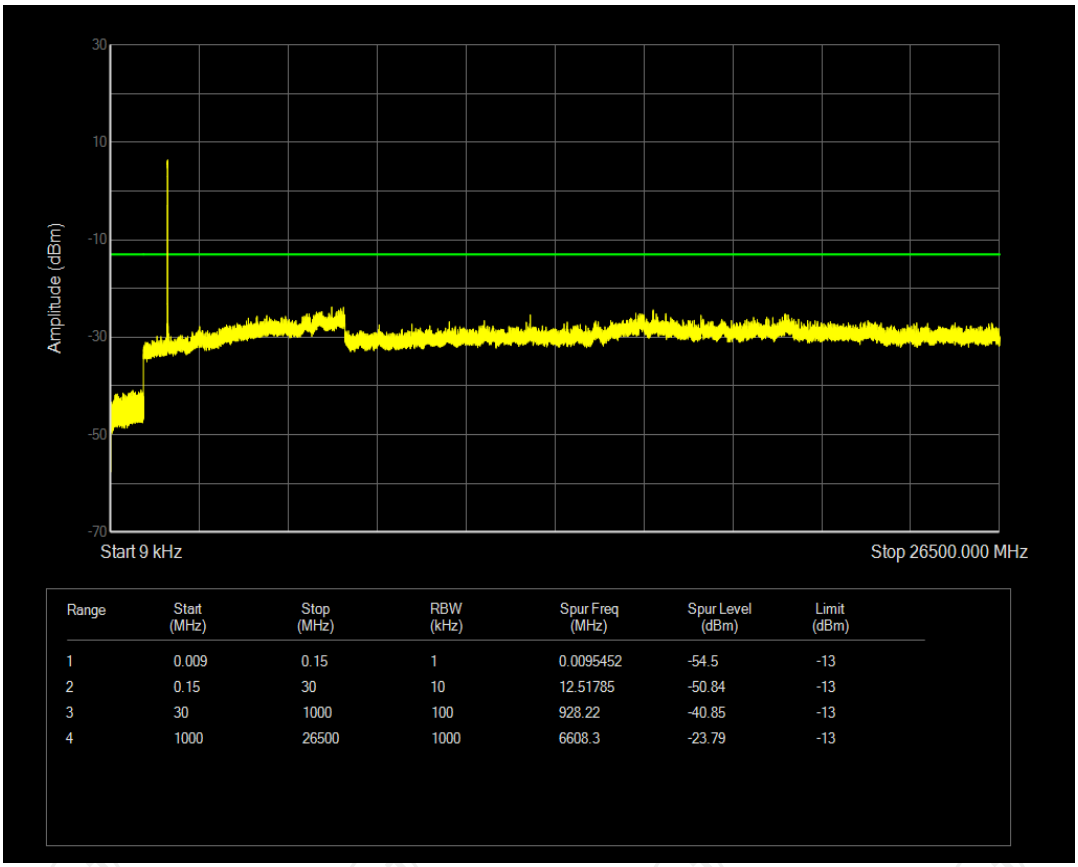

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0108283 | -53.87 | -13 |
| 2 | 0.15 | 30 | 10 | 12.00443 | -50.3 | -13 |
| 3 | 30 | 1000 | 100 | 857.183666666667 | -40.65 | -13 |
| 4 | 1000 | 26500 | 1000 | 6853.95 | -23.53 | -13 |

Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0



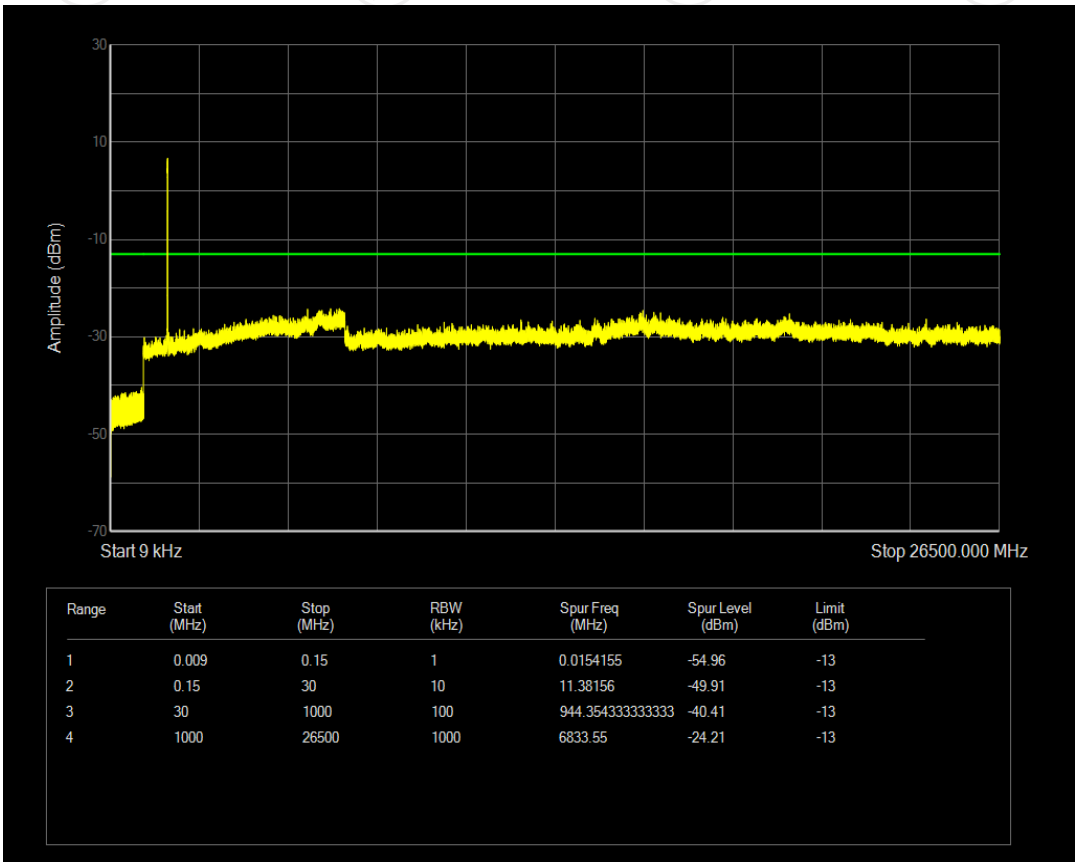

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0094136 | -51.11 | -13 |
| 2 | 0.15 | 30 | 10 | 12.69695 | -49.79 | -13 |
| 3 | 30 | 1000 | 100 | 718.085666666667 | -40.48 | -13 |
| 4 | 1000 | 26500 | 1000 | 6324.4 | -24.1 | -13 |

Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



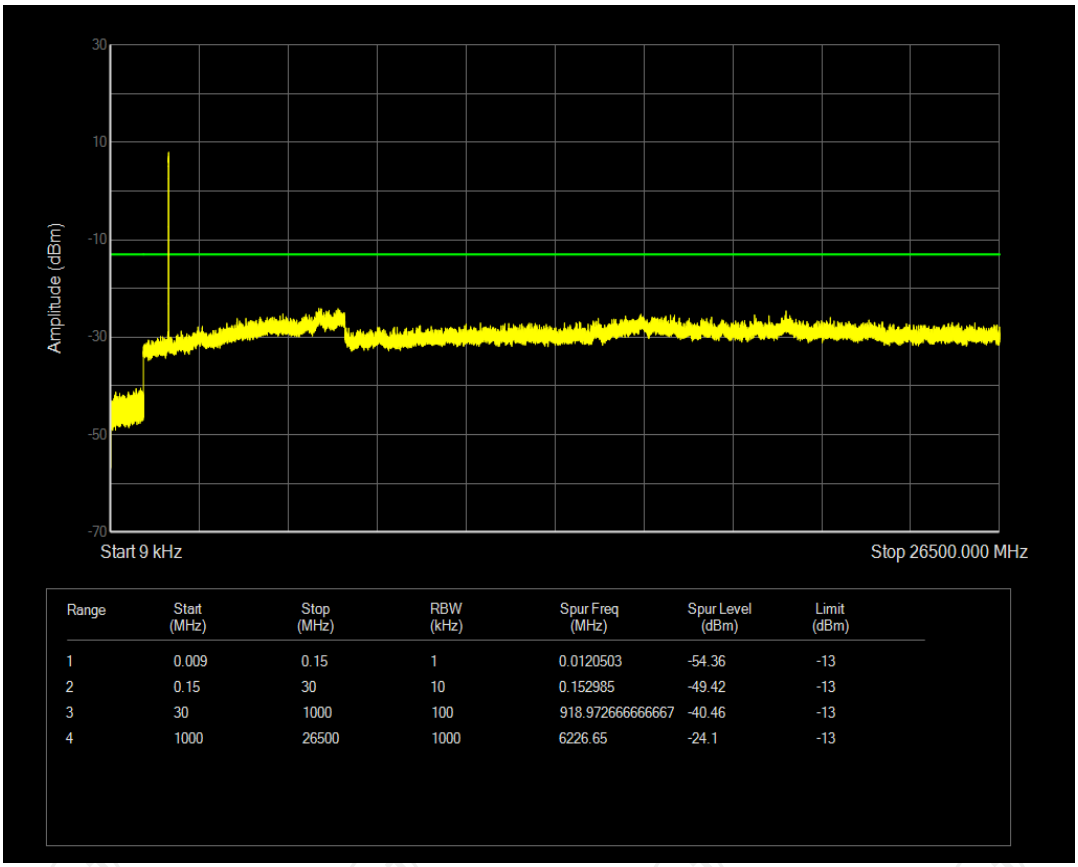

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0095452 | -54.5 | -13 |
| 2 | 0.15 | 30 | 10 | 12.51785 | -50.84 | -13 |
| 3 | 30 | 1000 | 100 | 928.22 | -40.85 | -13 |
| 4 | 1000 | 26500 | 1000 | 6608.3 | -23.79 | -13 |

Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0



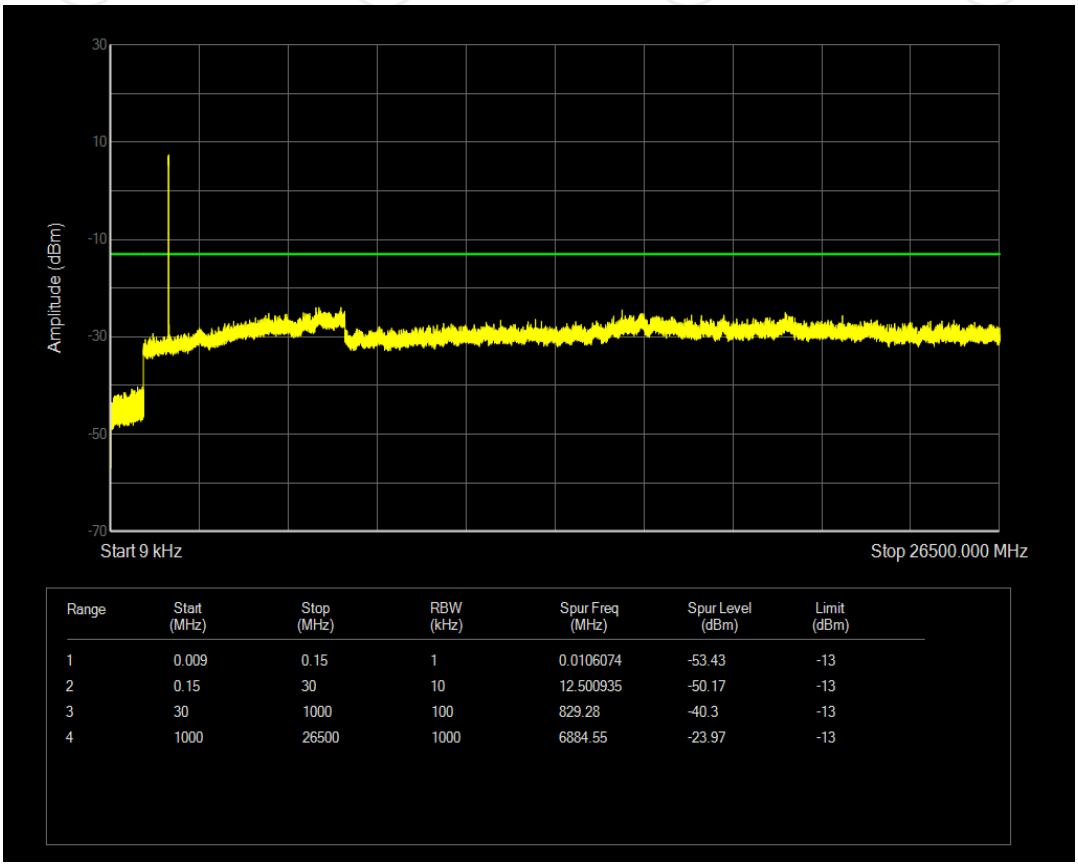

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0154155 | -54.96 | -13 |
| 2 | 0.15 | 30 | 10 | 11.38156 | -49.91 | -13 |
| 3 | 30 | 1000 | 100 | 944.354333333333 | -40.41 | -13 |
| 4 | 1000 | 26500 | 1000 | 6833.55 | -24.21 | -13 |

Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0120503 | -54.36 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -49.42 | -13 |
| 3 | 30 | 1000 | 100 | 918.972666666667 | -40.46 | -13 |
| 4 | 1000 | 26500 | 1000 | 6226.65 | -24.1 | -13 |

Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0106074 | -53.43 | -13 |
| 2 | 0.15 | 30 | 10 | 12.500935 | -50.17 | -13 |
| 3 | 30 | 1000 | 100 | 829.28 | -40.3 | -13 |
| 4 | 1000 | 26500 | 1000 | 6884.55 | -23.97 | -13 |



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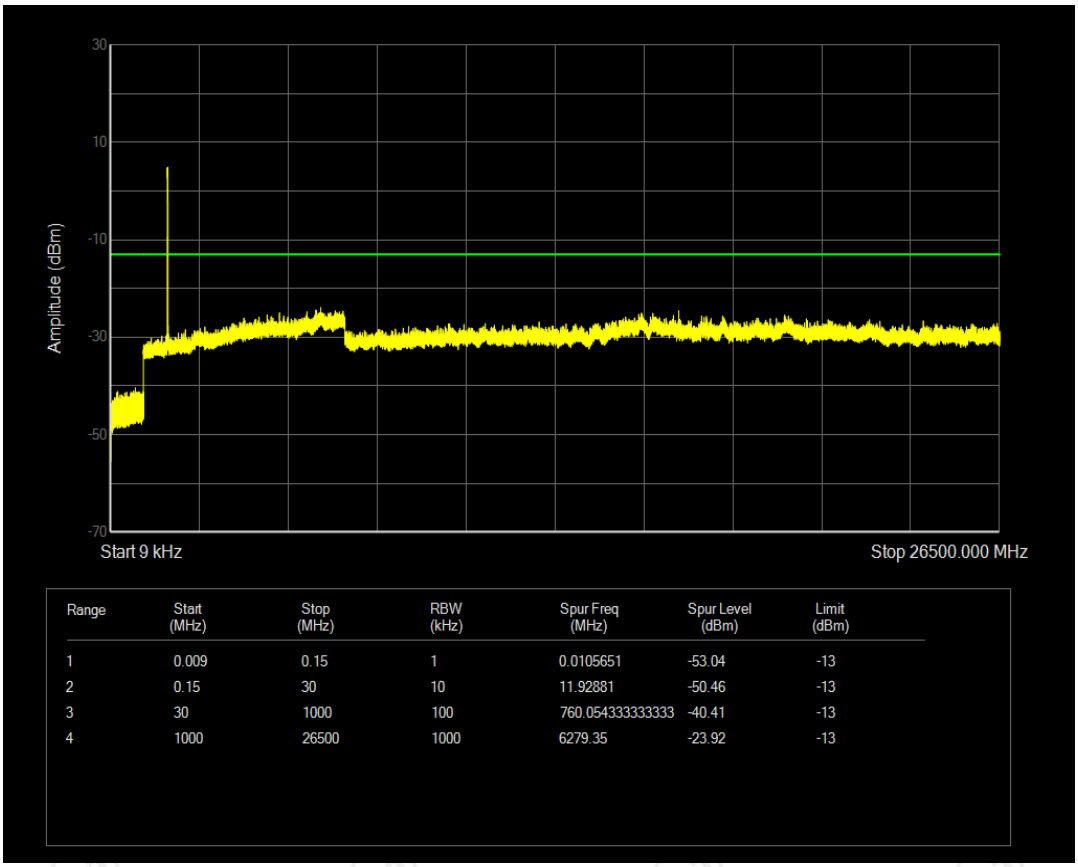
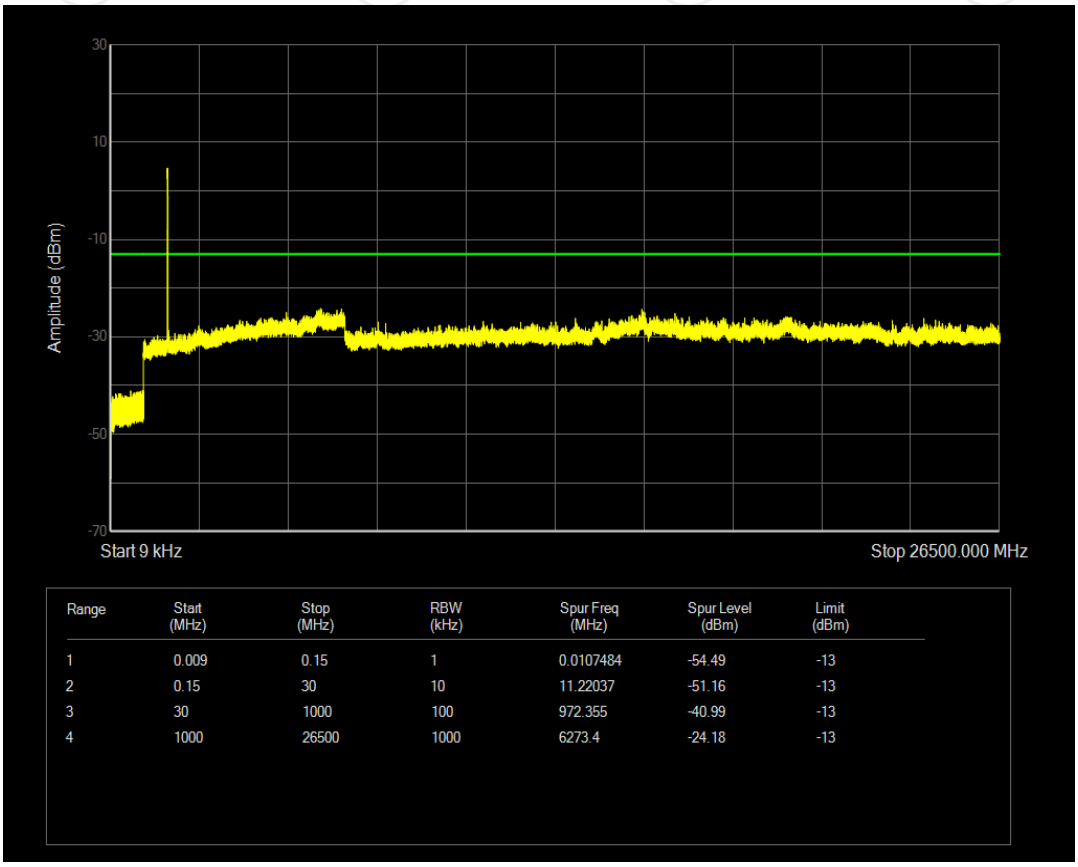
Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0105651 | -53.04 | -13 |
| 2 | 0.15 | 30 | 10 | 11.92881 | -50.46 | -13 |
| 3 | 30 | 1000 | 100 | 760.054333333333 | -40.41 | -13 |
| 4 | 1000 | 26500 | 1000 | 6279.35 | -23.92 | -13 |

Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0107484 | -54.49 | -13 |
| 2 | 0.15 | 30 | 10 | 11.22037 | -51.16 | -13 |
| 3 | 30 | 1000 | 100 | 972.355 | -40.99 | -13 |
| 4 | 1000 | 26500 | 1000 | 6273.4 | -24.18 | -13 |



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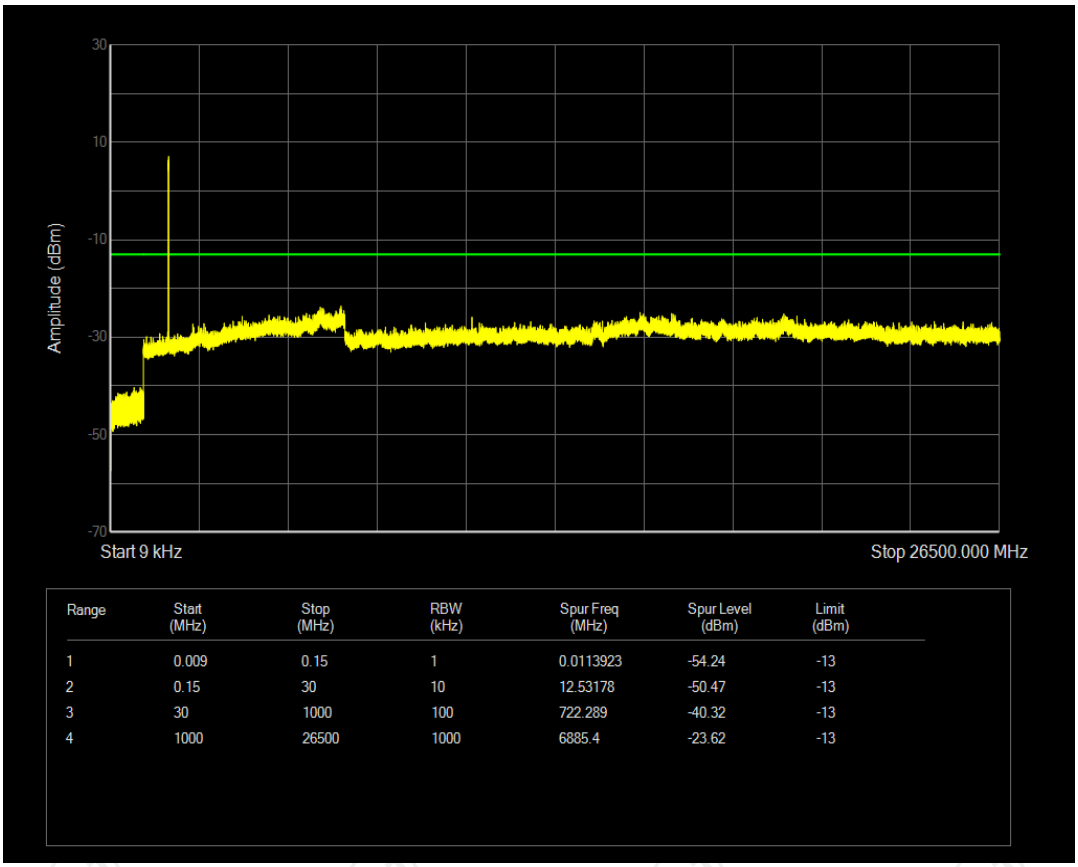
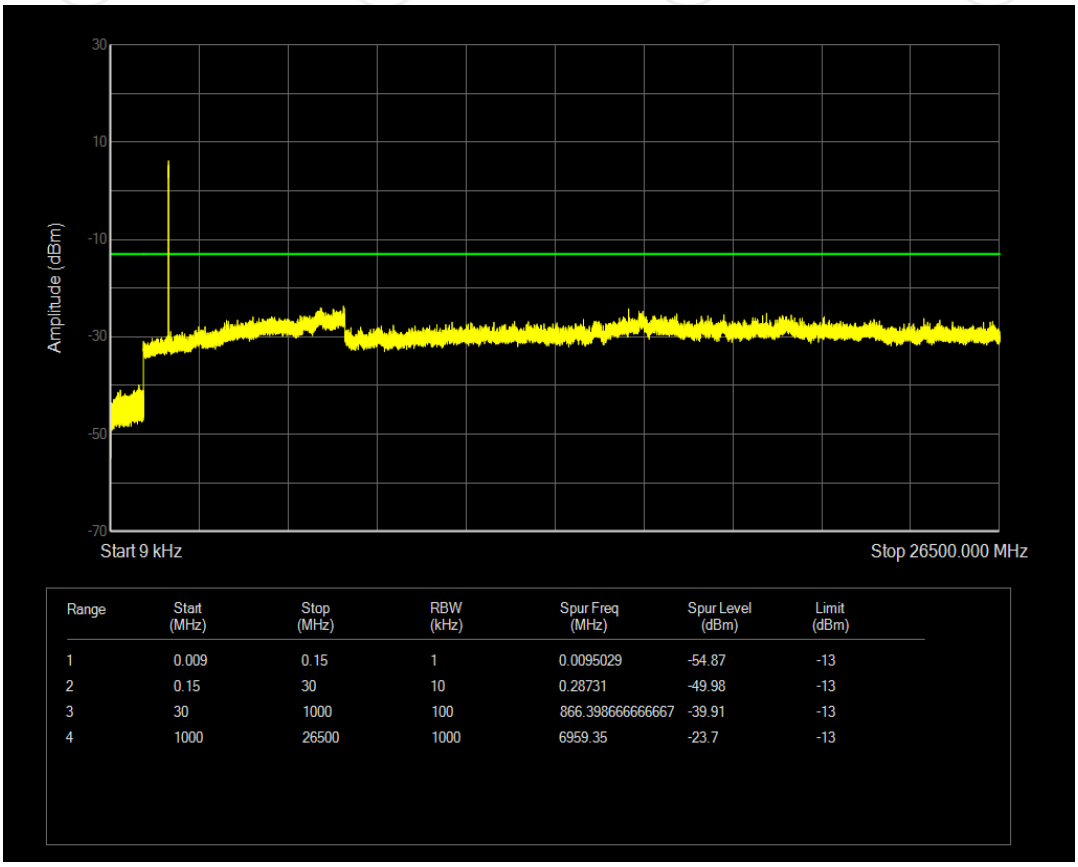
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0113923 | -54.24 | -13 |
| 2 | 0.15 | 30 | 10 | 12.53178 | -50.47 | -13 |
| 3 | 30 | 1000 | 100 | 722.289 | -40.32 | -13 |
| 4 | 1000 | 26500 | 1000 | 6885.4 | -23.62 | -13 |

Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0095029 | -54.87 | -13 |
| 2 | 0.15 | 30 | 10 | 0.28731 | -49.98 | -13 |
| 3 | 30 | 1000 | 100 | 866.398666666667 | -39.91 | -13 |
| 4 | 1000 | 26500 | 1000 | 6959.35 | -23.7 | -13 |



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