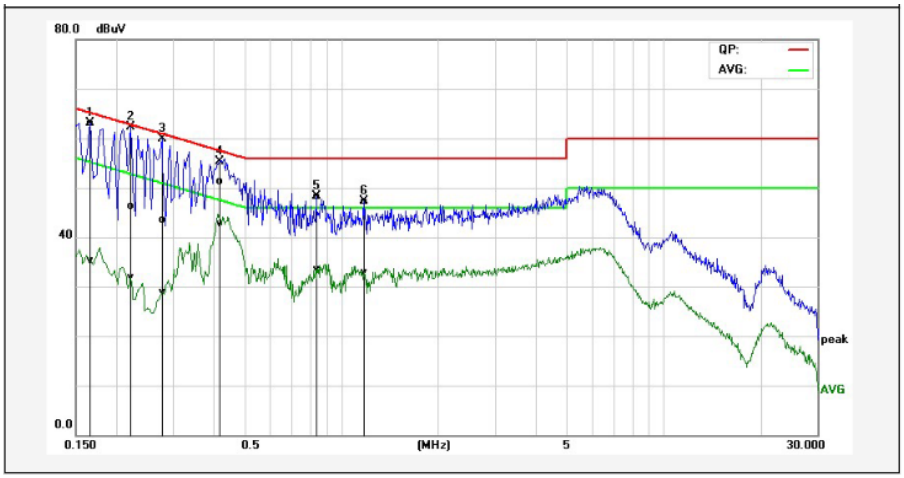
# Appendix A: Test Results of BDR&EDR

**Table of Contents** **Page**

# Appendix A.1 Test Results of Conducted Emission on AC Mains

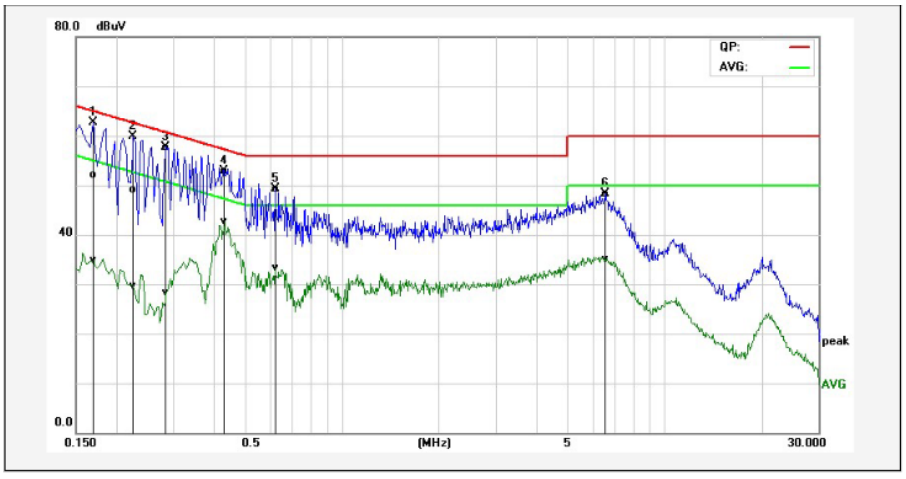
| Test Mode: | Mode7 |
|---|---|

L




| No. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1* | 0.1660 | 52.27 | 25.56 | 9.80 | 62.07 | 35.36 | 65.15 | 55.16 | -3.08 | -19.80 | Pass |
| 2P | 0.2220 | 36.65 | 22.41 | 9.59 | 46.24 | 32.00 | 62.74 | 52.74 | -16.50 | -20.74 | Pass |
| 3P | 0.2779 | 33.86 | 19.33 | 9.58 | 43.44 | 28.91 | 60.88 | 50.88 | -17.44 | -21.97 | Pass |
| 4P | 0.4140 | 41.70 | 33.20 | 9.54 | 51.24 | 42.74 | 57.57 | 47.57 | -6.33 | -4.83 | Pass |
| 5P | 0.8380 | 38.70 | 23.94 | 9.61 | 48.31 | 33.55 | 56.00 | 46.00 | -7.69 | -12.45 | Pass |
| 6P | 1.1740 | 37.56 | 23.29 | 9.69 | 47.25 | 32.98 | 56.00 | 46.00 | -8.75 | -13.02 | Pass |

N




| No. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 0.1700 | 42.42 | 25.22 | 9.60 | 52.02 | 34.82 | 64.96 | 54.96 | -12.94 | -20.14 | Pass |
| 2P | 0.2260 | 39.42 | 20.07 | 9.59 | 49.01 | 29.66 | 62.59 | 52.60 | -13.58 | -22.94 | Pass |
| 3* | 0.2860 | 47.89 | 18.67 | 9.58 | 57.47 | 28.25 | 60.64 | 50.64 | -3.17 | -22.39 | Pass |
| 4P | 0.4340 | 43.29 | 33.24 | 9.53 | 52.82 | 42.77 | 57.18 | 47.18 | -4.36 | -4.41 | Pass |
| 5P | 0.6220 | 39.66 | 23.75 | 9.57 | 49.23 | 33.32 | 56.00 | 46.00 | -6.77 | -12.68 | Pass |
| 6P | 6.5780 | 38.74 | 25.48 | 9.62 | 48.36 | 35.10 | 60.00 | 50.00 | -11.64 | -14.90 | Pass |

# Appendix A.2 Test Results of Radiated Spurious Emission

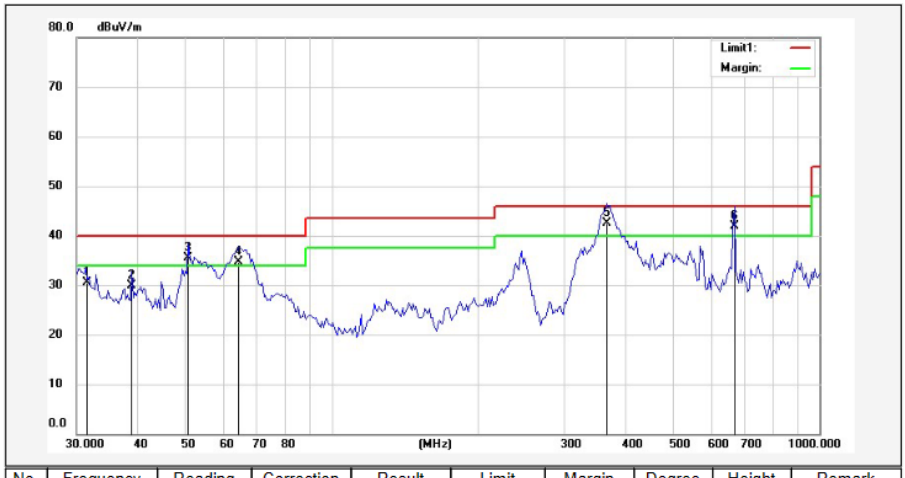
**Below 1GHz：**

| Test Mode: | Mode 1(worst mode) |
|---|---|

Horizontal


| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (deg.) | Height (cm) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 69.2296 | 41.63 | -13.91 | 27.72 | 40.00 | -12.28 | --- | --- | QP |
| 2 | 204.3052 | 48.42 | -14.71 | 33.71 | 43.50 | -9.79 | --- | --- | QP |
| 3* | 245.2606 | 55.90 | -13.16 | 42.74 | 46.00 | -3.26 | --- | --- | QP |
| 4! | 334.1254 | 51.29 | -10.61 | 40.68 | 46.00 | -5.32 | --- | --- | QP |
| 5! | 368.6681 | 51.95 | -9.62 | 42.33 | 46.00 | -3.67 | --- | --- | QP |
| 6 | 665.2610 | 41.32 | -3.61 | 37.71 | 46.00 | -8.29 | --- | --- | QP |

Vertical




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (deg.) | Height (cm) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 31.2917 | 43.60 | -13.14 | 30.46 | 40.00 | -9.54 | --- | --- | QP |
| 2 | 38.9080 | 43.04 | -13.06 | 29.98 | 40.00 | -10.02 | --- | --- | QP |
| 3! | 50.8171 | 47.47 | -12.05 | 35.42 | 40.00 | -4.58 | --- | --- | QP |
| 4! | 64.5318 | 47.99 | -13.24 | 34.75 | 40.00 | -5.25 | --- | --- | QP |
| 5* | 366.0865 | 52.15 | -9.69 | 42.46 | 46.00 | -3.54 | --- | --- | QP |
| 6! | 669.9523 | 45.58 | -3.59 | 41.99 | 46.00 | -4.01 | --- | --- | QP |

**Above 1GHz：**

BDR-Low (worst mode) Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5004.1481 | 62 | -15.59 | 46.41 | 74 | -27.59 | peak |
| 2 | 5004.1481 | 45.22 | -15.59 | 29.63 | 54 | -24.37 | AVG |
| 3 | 6093.401 | 57.68 | -11.78 | 45.9 | 74 | -28.1 | peak |
| 4 | 6093.401 | 41.41 | -11.78 | 29.63 | 54 | -24.37 | AVG |
| 5 | 8879.1668 | 55.89 | -7.81 | 48.08 | 74 | -25.92 | peak |
| 6 | 8879.1668 | 39.07 | -7.81 | 31.26 | 54 | -22.74 | AVG |
| 7 | 9629.2016 | 54.94 | -6.78 | 48.16 | 74 | -25.84 | peak |
| 8 | 9629.2016 | 38.26 | -6.78 | 31.48 | 54 | -22.52 | AVG |
| 9 | 11523.2011 | 54.98 | -4.51 | 50.47 | 74 | -23.53 | peak |
| 10 | 11523.2011 | 38.13 | -4.51 | 33.62 | 54 | -20.38 | AVG |
| 11 | 13165.3191 | 54.89 | -2.80 | 52.09 | 74 | -21.91 | peak |
| 12 | 13165.3191 | 38.27 | -2.80 | 35.47 | 54 | -18.53 | AVG |

BDR-Low (worst mode) Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5004.1481 | 61.25 | -15.59 | 45.66 | 74 | -28.34 | peak |
| 2 | 5004.1481 | 42.74 | -15.59 | 27.15 | 54 | -26.85 | AVG |
| 3 | 6456.7731 | 56.83 | -11.11 | 45.72 | 74 | -28.28 | peak |
| 4 | 6456.7731 | 41.33 | -11.11 | 30.22 | 54 | -23.78 | AVG |
| 5 | 7637.7816 | 55.86 | -9.00 | 46.86 | 74 | -27.14 | peak |
| 6 | 7637.7816 | 40.2 | -9.00 | 31.2 | 54 | -22.8 | AVG |
| 7 | 8879.1668 | 56.34 | -7.81 | 48.53 | 74 | -25.47 | peak |
| 8 | 8879.1668 | 39.66 | -7.81 | 31.85 | 54 | -22.15 | AVG |
| 9 | 12424.4058 | 56.06 | -3.18 | 52.88 | 74 | -21.12 | peak |
| 10 | 12424.4058 | 37.28 | -3.18 | 34.1 | 54 | -19.9 | AVG |
| 11 | 13869.844 | 54.37 | -1.84 | 52.53 | 74 | -21.47 | peak |
| 12 | 13869.844 | 36.66 | -1.84 | 34.82 | 54 | -19.18 | AVG |

BDR-Middle (worst mode) Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5004.1481 | 61.76 | -15.59 | 46.17 | 74 | -27.83 | peak |
| 2 | 5004.1481 | 45.22 | -15.59 | 29.63 | 54 | -24.37 | AVG |
| 3 | 5919.457 | 57.55 | -12.07 | 45.48 | 74 | -28.52 | peak |
| 4 | 5919.457 | 40.72 | -12.07 | 28.65 | 54 | -25.35 | AVG |
| 5 | 7419.7514 | 55.92 | -9.08 | 46.84 | 74 | -27.16 | peak |
| 6 | 7419.7514 | 38.74 | -9.08 | 29.66 | 54 | -24.34 | AVG |
| 7 | 9087.2926 | 56.87 | -7.75 | 49.12 | 74 | -24.88 | peak |
| 8 | 9087.2926 | 39.23 | -7.75 | 31.48 | 54 | -22.52 | AVG |
| 9 | 12424.4058 | 54.72 | -3.18 | 51.54 | 74 | -22.46 | peak |
| 10 | 12424.4058 | 36.43 | -3.18 | 33.25 | 54 | -20.75 | AVG |
| 11 | 13165.3191 | 55.74 | -2.80 | 52.94 | 74 | -21.06 | peak |
| 12 | 13165.3191 | 38.54 | -2.80 | 35.74 | 54 | -18.26 | AVG |

BDR- Middle (worst mode) Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5211.2174 | 58.62 | -14.76 | 43.86 | 74 | -30.14 | peak |
| 2 | 5211.2174 | 41.35 | -14.76 | 26.59 | 54 | -27.41 | AVG |
| 3 | 6419.4813 | 57.07 | -11.08 | 45.99 | 74 | -28.01 | peak |
| 4 | 6419.4813 | 39.69 | -11.08 | 28.61 | 54 | -25.39 | AVG |
| 5 | 6802.2987 | 56.46 | -10.25 | 46.21 | 74 | -27.79 | peak |
| 6 | 6802.2987 | 38.14 | -10.25 | 27.89 | 54 | -26.11 | AVG |
| 7 | 9354.3238 | 55.43 | -6.45 | 48.98 | 74 | -25.02 | peak |
| 8 | 9354.3238 | 38.03 | -6.45 | 31.58 | 54 | -22.42 | AVG |
| 9 | 11930.7185 | 54.29 | -3.22 | 51.07 | 74 | -22.93 | peak |
| 10 | 11930.7185 | 36.87 | -3.22 | 33.65 | 54 | -20.35 | AVG |
| 11 | 15394.0164 | 52.66 | -1.04 | 51.62 | 74 | -22.38 | peak |
| 12 | 15394.0164 | 35.23 | -1.04 | 34.19 | 54 | -19.81 | AVG |

BDR-High (worst mode) Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 6093.401 | 56.6 | -11.78 | 44.82 | 74 | -29.18 | peak |
| 2 | 6093.401 | 38.93 | -11.78 | 27.15 | 54 | -26.85 | AVG |
| 3 | 6494.2812 | 56.6 | -11.00 | 45.6 | 74 | -28.4 | peak |
| 4 | 6494.2812 | 39.63 | -11.00 | 28.63 | 54 | -25.37 | AVG |
| 5 | 7549.811 | 55.73 | -8.89 | 46.84 | 74 | -27.16 | peak |
| 6 | 7549.811 | 38.52 | -8.89 | 29.63 | 54 | -24.37 | AVG |
| 7 | 8282.955 | 55.98 | -8.51 | 47.47 | 74 | -26.53 | peak |
| 8 | 8282.955 | 39.03 | -8.51 | 30.52 | 54 | -23.48 | AVG |
| 9 | 8879.1668 | 55.92 | -7.81 | 48.11 | 74 | -25.89 | peak |
| 10 | 8879.1668 | 39.07 | -7.81 | 31.26 | 54 | -22.74 | AVG |
| 11 | 12424.4058 | 54.66 | -3.18 | 51.48 | 74 | -22.52 | peak |
| 12 | 12424.4058 | 36.77 | -3.18 | 33.59 | 54 | -20.41 | AVG |

BDR-High (worst mode) Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4975.2461 | 61.03 | -15.60 | 45.43 | 74 | -28.57 | peak |
| 2 | 4975.2461 | 44.75 | -15.60 | 29.15 | 54 | -24.85 | AVG |
| 3 | 5333.3675 | 59.97 | -14.28 | 45.69 | 74 | -28.31 | peak |
| 4 | 5333.3675 | 43.24 | -14.28 | 28.96 | 54 | -25.04 | AVG |
| 5 | 6802.2987 | 55.76 | -10.25 | 45.51 | 74 | -28.49 | peak |
| 6 | 6802.2987 | 37.88 | -10.25 | 27.63 | 54 | -26.37 | AVG |
| 7 | 8982.627 | 55.95 | -7.74 | 48.21 | 74 | -25.79 | peak |
| 8 | 8982.627 | 39 | -7.74 | 31.26 | 54 | -22.74 | AVG |
| 9 | 9912.1566 | 54.78 | -6.14 | 48.64 | 74 | -25.36 | peak |
| 10 | 9912.1566 | 37.34 | -6.14 | 31.2 | 54 | -22.8 | AVG |
| 11 | 11523.2011 | 54.43 | -4.51 | 49.92 | 74 | -24.08 | peak |
| 12 | 11523.2011 | 35.71 | -4.51 | 31.2 | 54 | -22.8 | AVG |

EDR-Low (worst mode) Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5004.1481 | 61.51 | -15.59 | 45.92 | 74 | -28.08 | peak |
| 2 | 5004.1481 | 45.22 | -15.59 | 29.63 | 54 | -24.37 | AVG |
| 3 | 5750.4786 | 57.65 | -13.08 | 44.57 | 74 | -29.43 | peak |
| 4 | 5750.4786 | 41.49 | -13.08 | 28.41 | 54 | -25.59 | AVG |
| 5 | 6419.4813 | 57.09 | -11.08 | 46.01 | 74 | -27.99 | peak |
| 6 | 6419.4813 | 40.71 | -11.08 | 29.63 | 54 | -24.37 | AVG |
| 7 | 6961.7434 | 56.11 | -10.04 | 46.07 | 74 | -27.93 | peak |
| 8 | 6961.7434 | 38.5 | -10.04 | 28.46 | 54 | -25.54 | AVG |
| 9 | 8982.627 | 56.34 | -7.74 | 48.6 | 74 | -25.4 | peak |
| 10 | 8982.627 | 39.33 | -7.74 | 31.59 | 54 | -22.41 | AVG |
| 11 | 12863.7942 | 56.08 | -3.04 | 53.04 | 74 | -20.96 | peak |
| 12 | 12863.7942 | 38.68 | -3.04 | 35.64 | 54 | -18.36 | AVG |

EDR-Low (worst mode) Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 6093.401 | 56.88 | -11.78 | 45.1 | 74 | -28.9 | peak |
| 2 | 6093.401 | 40.93 | -11.78 | 29.15 | 54 | -24.85 | AVG |
| 3 | 7334.292 | 56.33 | -9.32 | 47.01 | 74 | -26.99 | peak |
| 4 | 7334.292 | 38.95 | -9.32 | 29.63 | 54 | -24.37 | AVG |
| 5 | 9463.3204 | 55.47 | -6.37 | 49.1 | 74 | -24.9 | peak |
| 6 | 9463.3204 | 37.89 | -6.37 | 31.52 | 54 | -22.48 | AVG |
| 7 | 11523.2011 | 55.78 | -4.51 | 51.27 | 74 | -22.73 | peak |
| 8 | 11523.2011 | 38.2 | -4.51 | 33.69 | 54 | -20.31 | AVG |
| 9 | 12863.7942 | 55.72 | -3.04 | 52.68 | 74 | -21.32 | peak |
| 10 | 12863.7942 | 37.6 | -3.04 | 34.56 | 54 | -19.44 | AVG |
| 11 | 15394.0164 | 54.33 | -1.04 | 53.29 | 74 | -20.71 | peak |
| 12 | 15394.0164 | 35.11 | -1.04 | 34.07 | 54 | -19.93 | AVG |

EDR-Middle (worst mode) Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5004.1481 | 69.26 | -22.09 | 47.17 | 74 | -26.83 | peak |
| 2 | 5004.1481 | 51.72 | -22.09 | 29.63 | 54 | -24.37 | AVG |
| 3 | 6802.2987 | 64 | -18.38 | 45.62 | 74 | -28.38 | peak |
| 4 | 6841.8144 | 47.23 | -18.28 | 28.95 | 54 | -25.05 | AVG |
| 5 | 7419.7514 | 64.61 | -17.77 | 46.84 | 74 | -27.16 | peak |
| 6 | 7419.7514 | 46.72 | -17.77 | 28.95 | 54 | -25.05 | AVG |
| 7 | 8428.1455 | 66.46 | -17.08 | 49.38 | 74 | -24.62 | peak |
| 8 | 8428.1455 | 48.56 | -17.08 | 31.48 | 54 | -22.52 | AVG |
| 9 | 12210.3721 | 66.64 | -14.66 | 51.98 | 74 | -22.02 | peak |
| 10 | 12210.3721 | 48.28 | -14.66 | 33.62 | 54 | -20.38 | AVG |
| 11 | 13165.3191 | 68.81 | -15.37 | 53.44 | 74 | -20.56 | peak |
| 12 | 13165.3191 | 50.84 | -15.37 | 35.47 | 54 | -18.53 | AVG |

EDR- Middle (worst mode) Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4508.684 | 65.97 | -22.97 | 43 | 74 | -31 | peak |
| 2 | 4508.684 | 49.56 | -22.97 | 26.59 | 54 | -27.41 | AVG |
| 3 | 5004.1481 | 66.5 | -22.09 | 44.41 | 74 | -29.59 | peak |
| 4 | 5004.1481 | 49.1 | -22.09 | 27.01 | 54 | -26.99 | AVG |
| 5 | 6802.2987 | 65.09 | -18.38 | 46.71 | 74 | -27.29 | peak |
| 6 | 6802.2987 | 47.8 | -18.38 | 29.42 | 54 | -24.58 | AVG |
| 7 | 9354.3238 | 65.74 | -16.26 | 49.48 | 74 | -24.52 | peak |
| 8 | 9354.3238 | 47.52 | -16.26 | 31.26 | 54 | -22.74 | AVG |
| 9 | 11930.7185 | 66.24 | -14.67 | 51.57 | 74 | -22.43 | peak |
| 10 | 11930.7185 | 48.82 | -14.67 | 34.15 | 54 | -19.85 | AVG |
| 11 | 14782.3307 | 67.3 | -14.72 | 52.58 | 74 | -21.42 | peak |
| 12 | 14782.3307 | 50.74 | -14.72 | 36.02 | 54 | -17.98 | AVG |

EDR-High (worst mode) Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4777.5536 | 66.13 | -22.44 | 43.69 | 74 | -30.31 | peak |
| 2 | 4777.5536 | 48.59 | -22.44 | 26.15 | 54 | -27.85 | AVG |
| 3 | 6494.2812 | 64.42 | -18.82 | 45.6 | 74 | -28.4 | peak |
| 4 | 6494.2812 | 48.45 | -18.82 | 29.63 | 54 | -24.37 | AVG |
| 5 | 7549.811 | 65.46 | -17.62 | 47.84 | 74 | -26.16 | peak |
| 6 | 7549.811 | 47.48 | -17.62 | 29.86 | 54 | -24.14 | AVG |
| 7 | 9408.6643 | 64.91 | -16.26 | 48.65 | 74 | -25.35 | peak |
| 8 | 9408.6643 | 47.72 | -16.26 | 31.46 | 54 | -22.54 | AVG |
| 9 | 12424.4058 | 65.2 | -14.72 | 50.48 | 74 | -23.52 | peak |
| 10 | 12424.4058 | 47.86 | -14.72 | 33.14 | 54 | -20.86 | AVG |
| 11 | 13869.844 | 66.32 | -14.83 | 51.49 | 74 | -22.51 | peak |
| 12 | 13869.844 | 49.02 | -14.83 | 34.19 | 54 | -19.81 | AVG |

EDR-High (worst mode) Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4975.2461 | 68.53 | -22.10 | 46.43 | 74 | -27.57 | peak |
| 2 | 4975.2461 | 51.73 | -22.10 | 29.63 | 54 | -24.37 | AVG |
| 3 | 5333.3675 | 67.76 | -21.07 | 46.69 | 74 | -27.31 | peak |
| 4 | 5333.3675 | 49.52 | -21.07 | 28.45 | 54 | -25.55 | AVG |
| 5 | 8331.0717 | 64.4 | -17.13 | 47.27 | 74 | -26.73 | peak |
| 6 | 8331.0717 | 46.77 | -17.13 | 29.64 | 54 | -24.36 | AVG |
| 7 | 9912.1566 | 65.47 | -16.33 | 49.14 | 74 | -24.86 | peak |
| 8 | 9912.1566 | 48.11 | -16.33 | 31.78 | 54 | -22.22 | AVG |
| 9 | 11523.2011 | 65.94 | -15.52 | 50.42 | 74 | -23.58 | peak |
| 10 | 11523.2011 | 46.78 | -15.52 | 31.26 | 54 | -22.74 | AVG |
| 11 | 13869.844 | 66.95 | -14.83 | 52.12 | 74 | -21.88 | peak |
| 12 | 13869.844 | 49.69 | -14.83 | 34.86 | 54 | -19.14 | AVG |

Node:

1、Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported..

2、Radiated emissions measured in frequency above 1GHz were made with an instrument using peak/average detector mode.

3、Average test would be performed if the peak result were greater than the average limit or as required by the applicant.

4、Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

5、Margin (dB), result in dBuV/m – limit in dBuV/m.

**Restricted band Requirements**
**BDR-Low (worst mode)**

Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2381.7735 | 76.26 | -19.95 | 56.31 | 74 | -17.69 | peak |
| 2 | 2381.7735 | 59.71 | -19.95 | 39.76 | 54 | -14.24 | AVG |
| 3 | 2390 | 72.94 | -19.91 | 53.03 | 74 | -20.97 | peak |
| 4 | 2390 | 58.37 | -19.91 | 38.46 | 54 | -15.54 | AVG |

Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2382.1543 | 74.52 | -19.95 | 54.57 | 74 | -19.43 | peak |
| 2 | 2382.1543 | 56.9 | -19.95 | 36.95 | 54 | -17.05 | AVG |
| 3 | 2390 | 70.65 | -19.91 | 50.74 | 74 | -23.26 | peak |
| 4 | 2390 | 53.8 | -19.91 | 33.89 | 54 | -20.11 | AVG |

**BDR-High (worst mode)**

Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2483.5 | 73.02 | -19.91 | 53.11 | 74 | -20.89 | peak |
| 2 | 2483.5 | 56.5 | -19.91 | 36.59 | 54 | -17.41 | AVG |
| 3 | 2499.8957 | 75.46 | -19.88 | 55.58 | 74 | -18.42 | peak |
| 4 | 2499.8957 | 58.29 | -19.88 | 38.41 | 54 | -15.59 | AVG |

Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2483.5 | 73.96 | -19.91 | 54.05 | 74 | -19.95 | peak |
| 2 | 2483.5 | 56.87 | -19.91 | 36.96 | 54 | -17.04 | AVG |
| 3 | 2499.7914 | 76.12 | -19.88 | 56.24 | 74 | -17.76 | peak |
| 4 | 2499.7914 | 58.84 | -19.88 | 38.96 | 54 | -15.04 | AVG |

**EDR-Low (worst mode)**

Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2381.5831 | 77.08 | -19.95 | 57.13 | 74 | -16.87 | peak |
| 2 | 2381.5831 | 59.1 | -19.95 | 39.15 | 54 | -14.85 | AVG |
| 3 | 2390 | 73.15 | -19.91 | 53.24 | 74 | -20.76 | peak |
| 4 | 2390 | 58.38 | -19.91 | 38.47 | 54 | -15.53 | AVG |

Vertical

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2381.7734 | 75 | -19.95 | 55.05 | 74 | -18.95 | peak |
| 2 | 2381.7734 | 58.1 | -19.95 | 38.15 | 54 | -15.85 | AVG |
| 3 | 2390 | 72.34 | -19.91 | 52.43 | 74 | -21.57 | peak |
| 4 | 2390 | 56.86 | -19.91 | 36.95 | 54 | -17.05 | AVG |

**EDR-High (worst mode)**

Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2483.5 | 75.23 | -19.91 | 55.32 | 74 | -18.68 | peak |
| 2 | 2483.5 | 58.17 | -19.91 | 38.26 | 54 | -15.74 | AVG |
| 3 | 2495.05 | 75.54 | -19.89 | 55.65 | 74 | -18.35 | peak |
| 4 | 2495.05 | 59.3 | -19.89 | 39.41 | 54 | -14.59 | AVG |

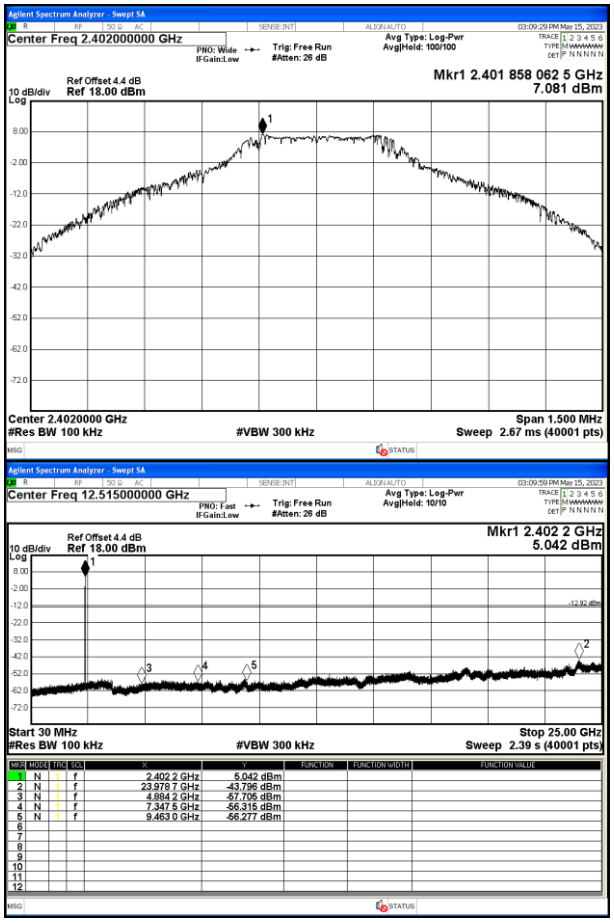
Vertical

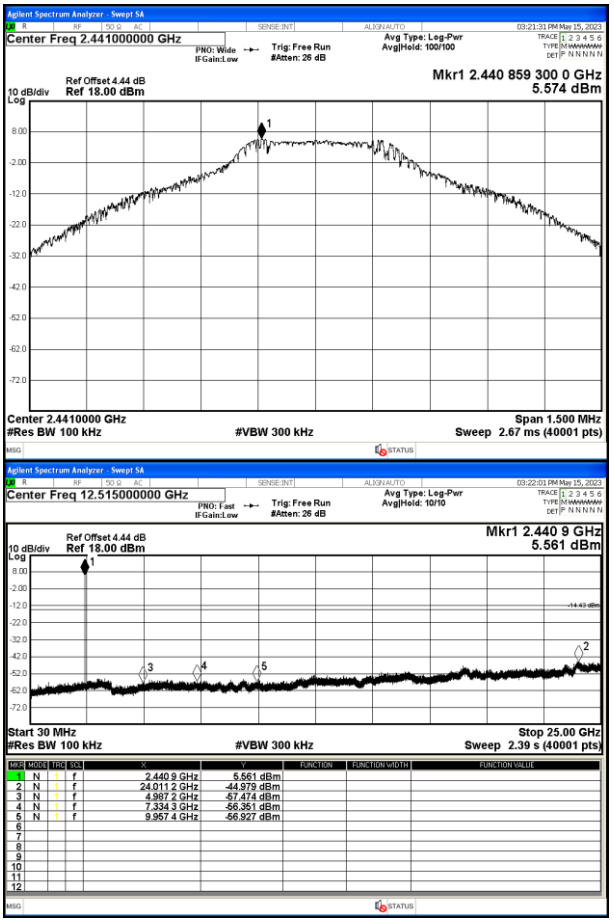
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2483.5 | 71.6 | -19.91 | 51.69 | 74 | -22.31 | peak |
| 2 | 2483.5 | 54.76 | -19.91 | 34.85 | 54 | -19.15 | AVG |
| 3 | 2494.6853 | 73.17 | -19.89 | 53.28 | 74 | -20.72 | peak |
| 4 | 2494.6853 | 55.05 | -19.89 | 35.16 | 54 | -18.84 | AVG |

Note:
Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

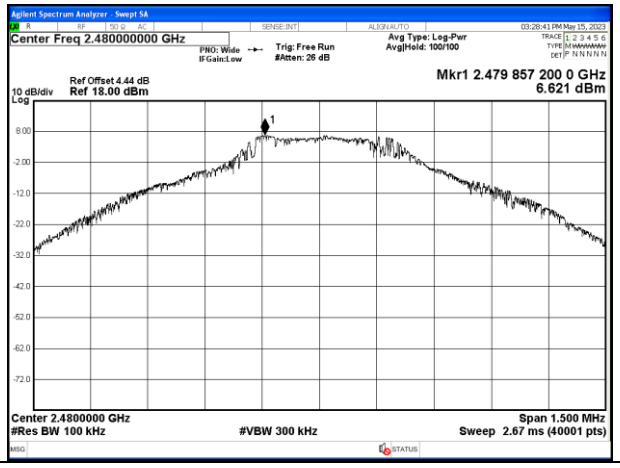
# Appendix A.3 Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

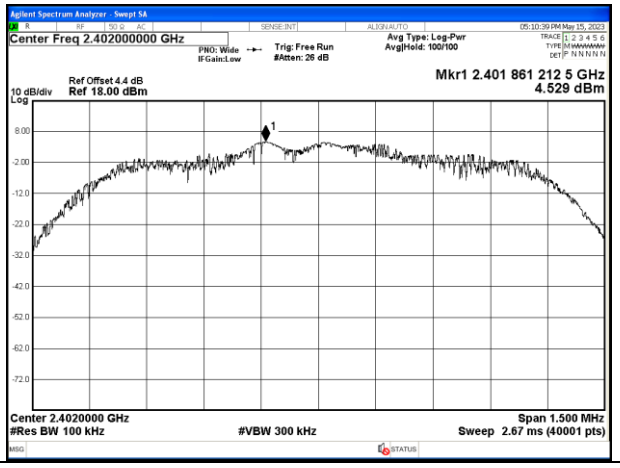
| Conducted spurious emission | | | |
|---|---|---|---|
| Test Mode: | BDR Mode, CH00 | Test Mode: | BDR Mode, CH39 |

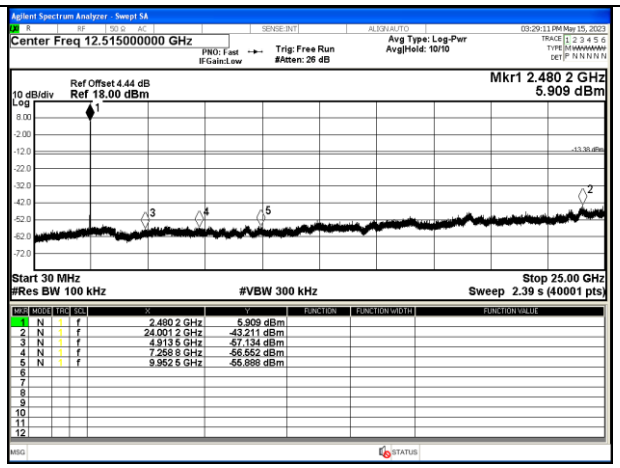


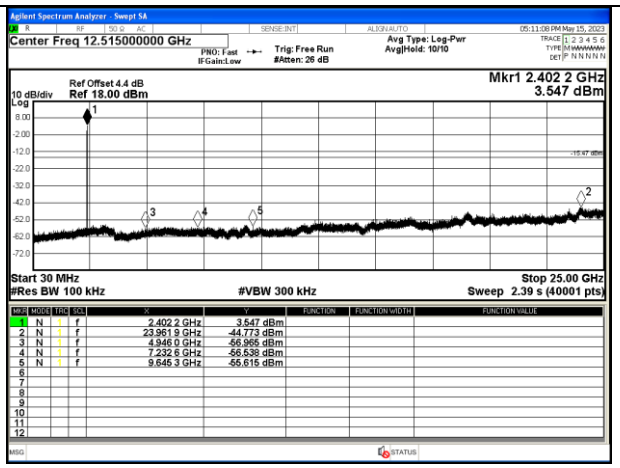




| Test Mode: | BDR Mode, CH78 | Test Mode: | EDR Mode, CH00 |
|---|---|---|---|

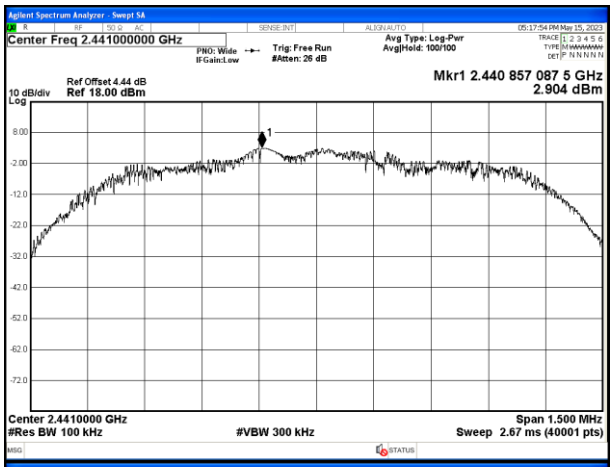


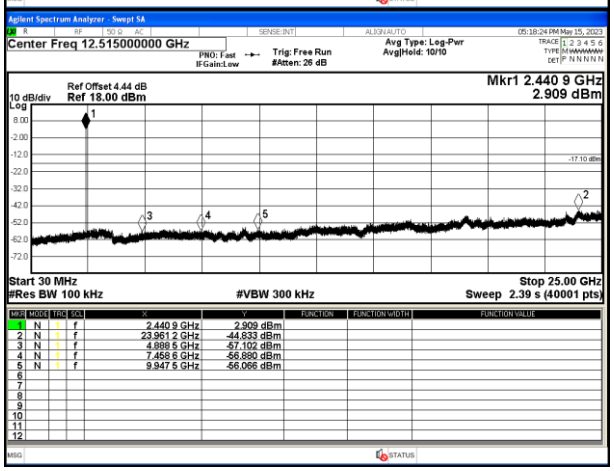



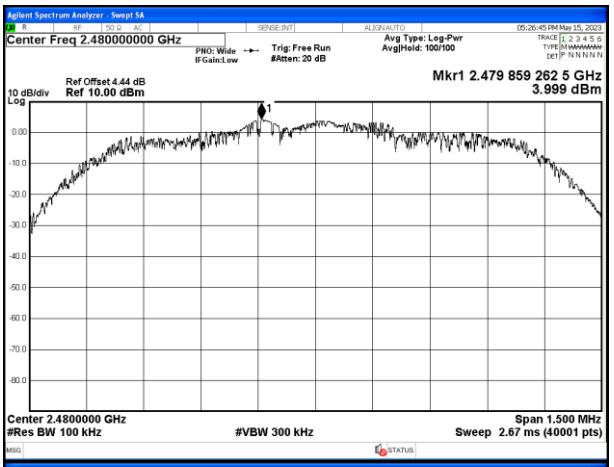


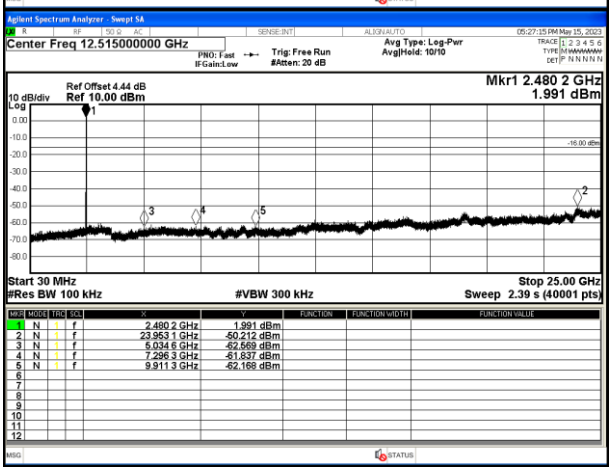




| Test Mode: | EDR Mode, CH39 | Test Mode: | EDR Mode, CH78 |
|---|---|---|---|

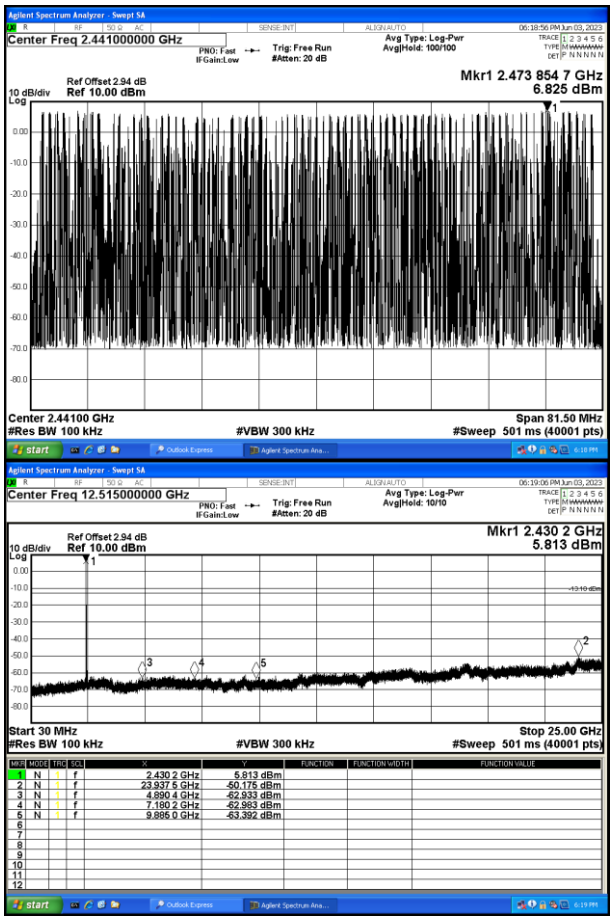


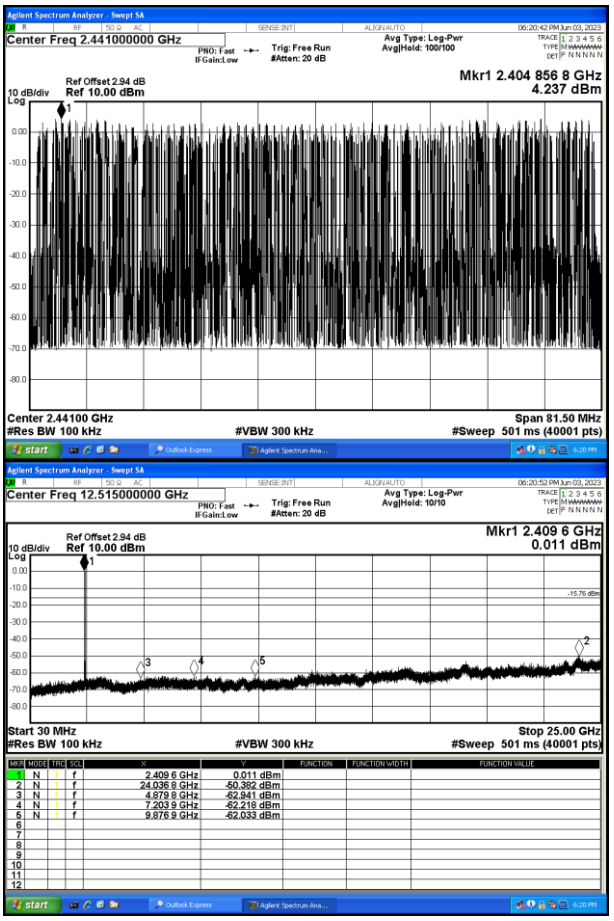



| Test Mode: | BDR Mode, Hopping | Test Mode: | EDR Mode, Hopping |
|---|---|---|---|

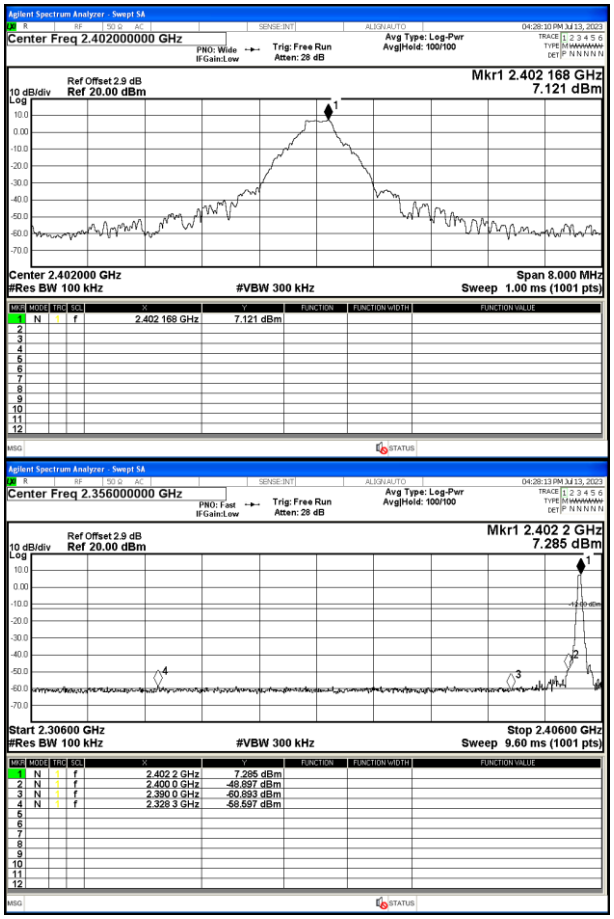


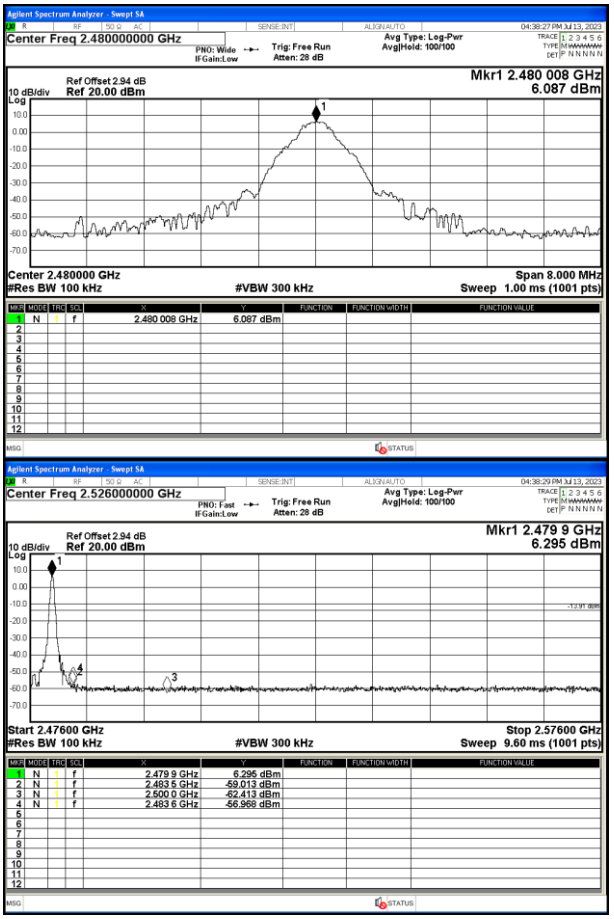




Note:
Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

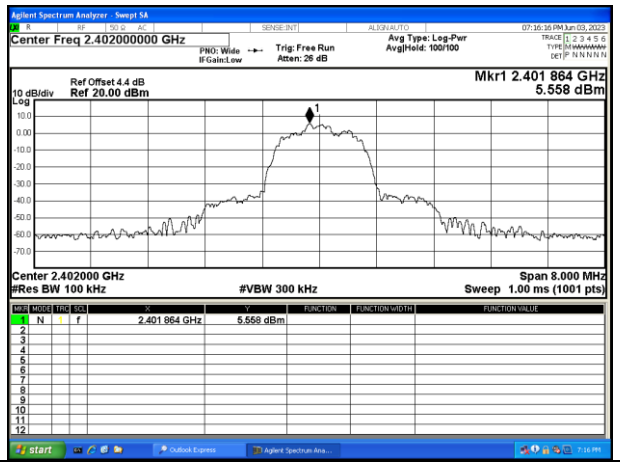
For Band edge (it's also the reference level for conducted spurious emission)

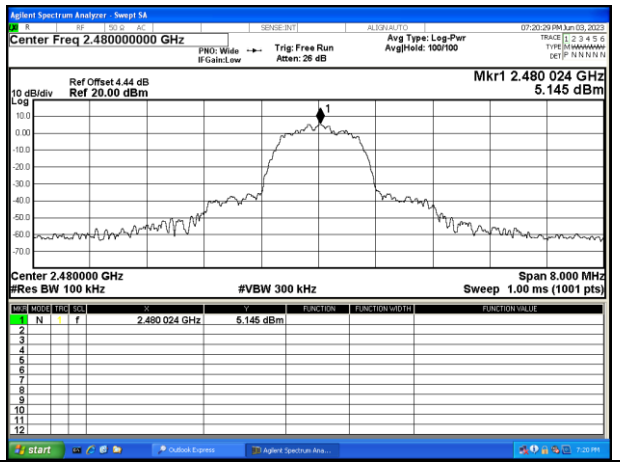
| Test Mode: | BDR Mode, CH00 | Test Mode: | BDR Mode, CH78 |
|---|---|---|---|

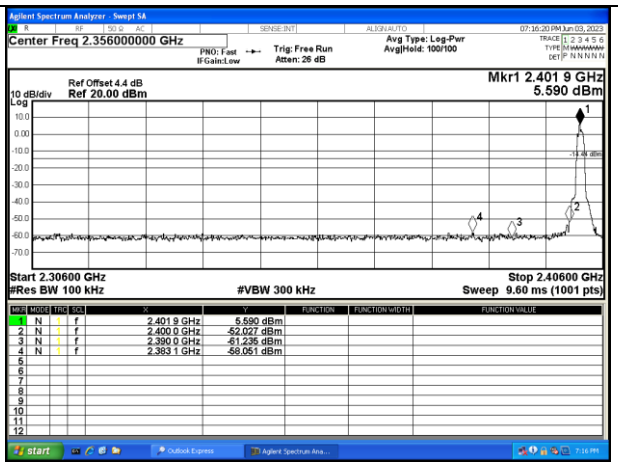


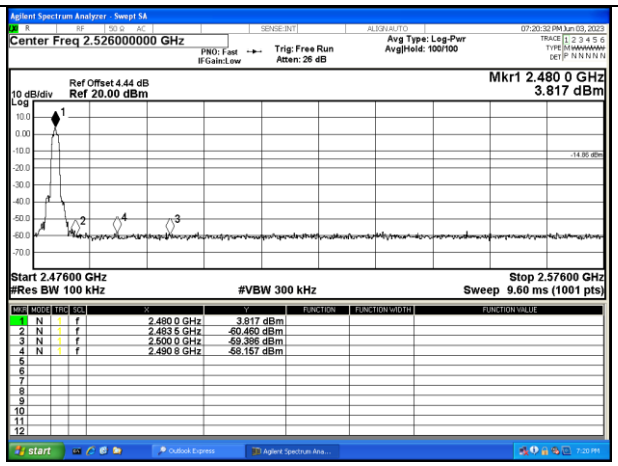




| Test Mode: | EDR Mode, CH00 | Test Mode: | EDR Mode, CH78 |
|---|---|---|---|

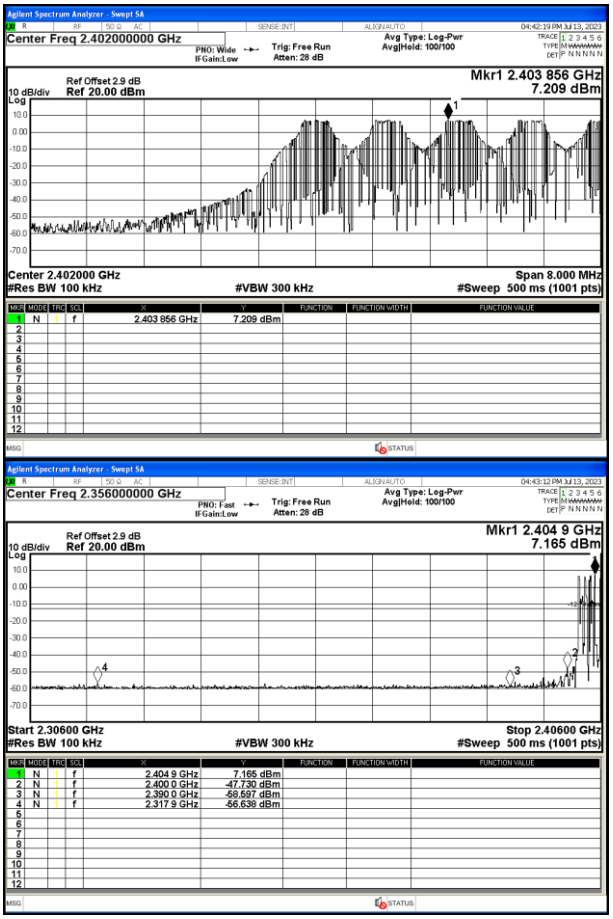


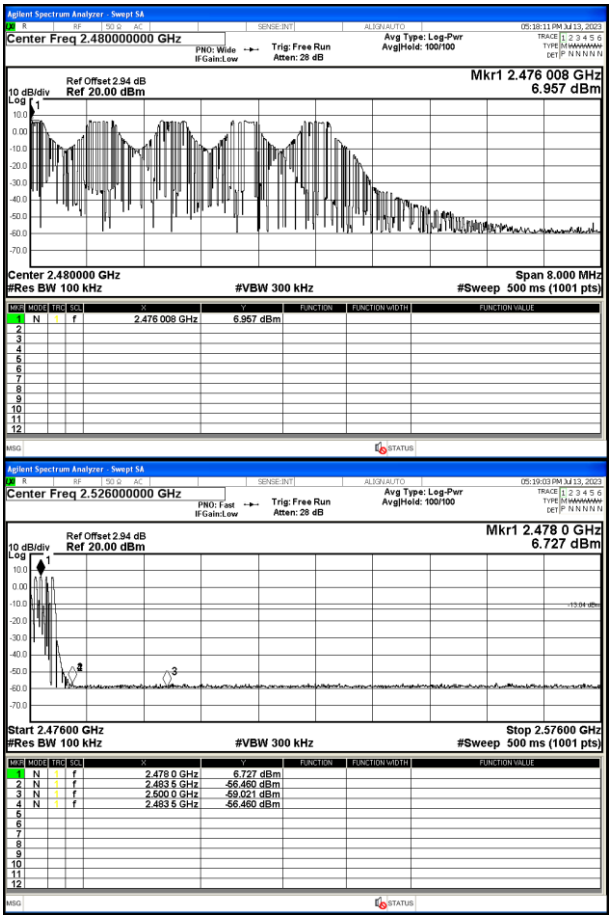





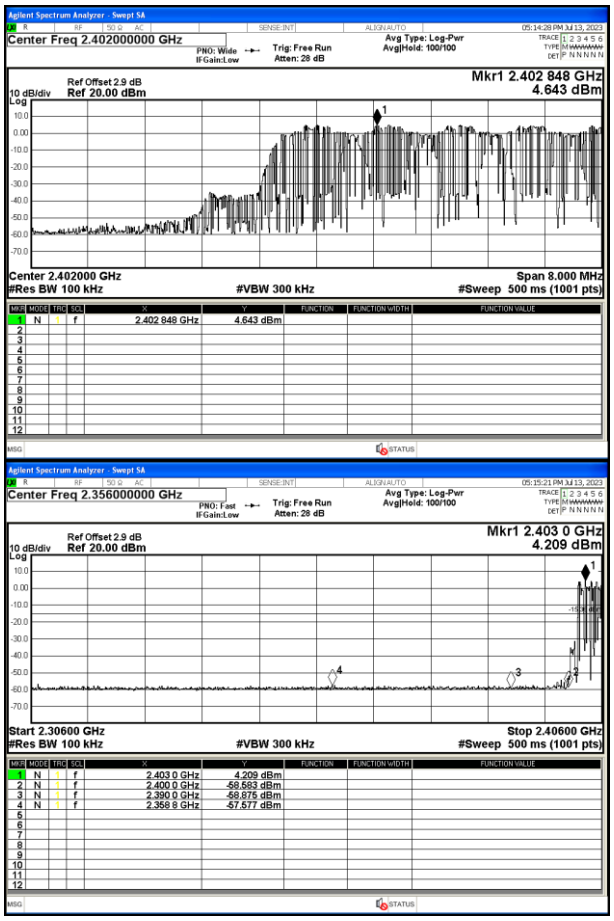



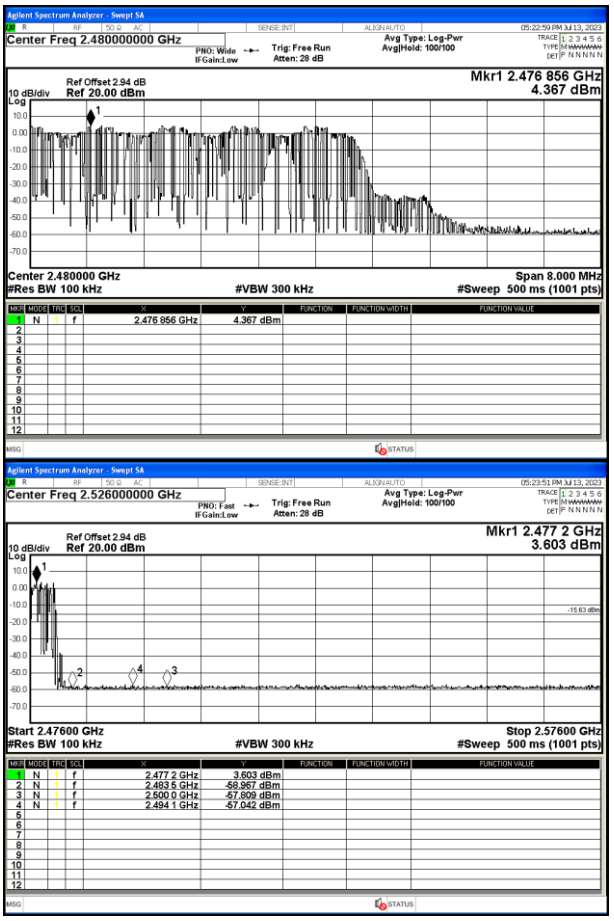

| Test Mode: | BDR Mode, Hopping | Test Mode: | BDR Mode, Hopping |
|---|---|---|---|



| Test Mode: | EDR Mode, Hopping | Test Mode: | EDR Mode, Hopping |
|---|---|---|---|



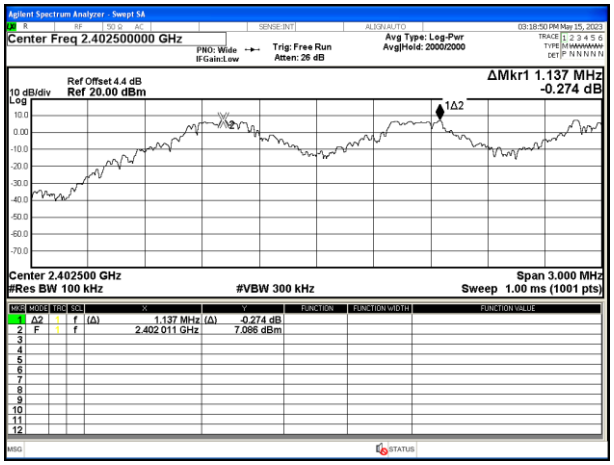

Note:
Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

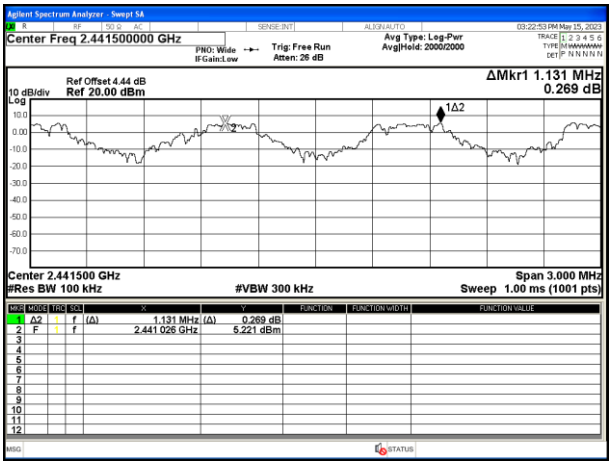
# Appendix A.4 Test Results of Carrier Frequency Separation

| Mode | HFS (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|
| BDR 2402 | 1.137 | 0.572 | Pass |
| BDR 2441 | 1.131 | 0.570 | Pass |
| BDR 2480 | 1.026 | 0.567 | Pass |
| EDR 2402 | 0.972 | 0.806 | Pass |
| EDR 2441 | 0.990 | 0.806 | Pass |
| EDR 2480 | 1.080 | 0.806 | Pass |

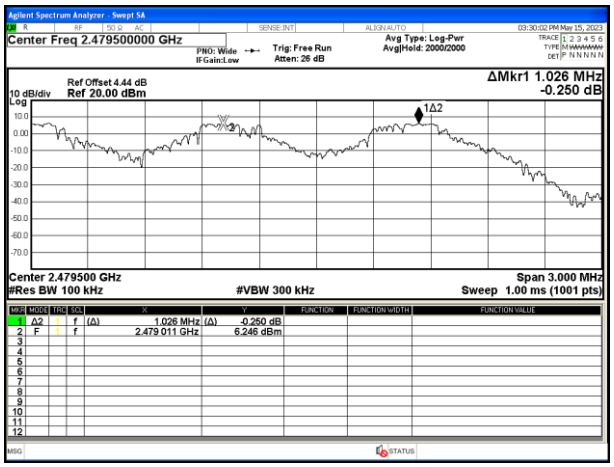
Note:
Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

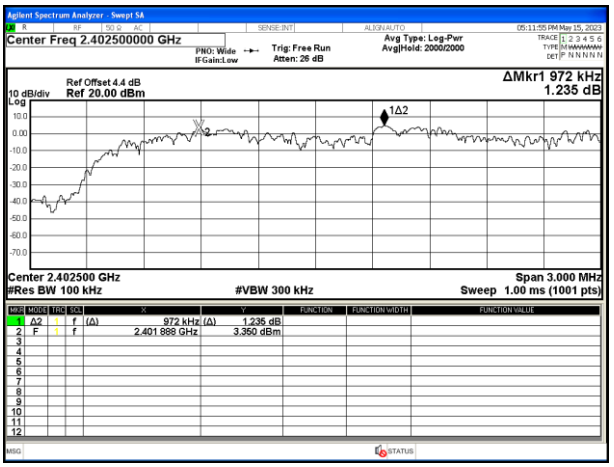
| Test Mode: | BDR Mode, CH00 | Test Mode: | BDR Mode, CH39 |
|---|---|---|---|



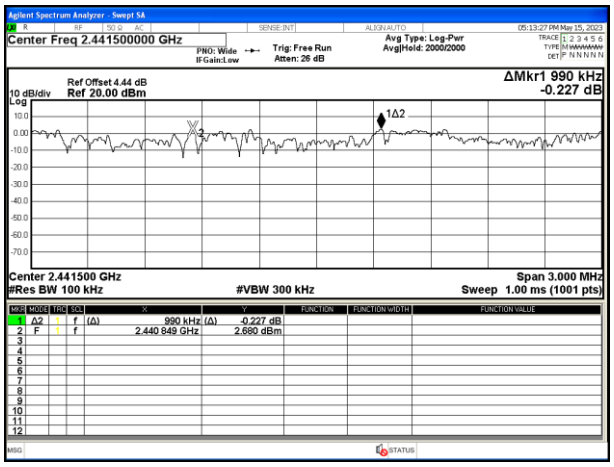



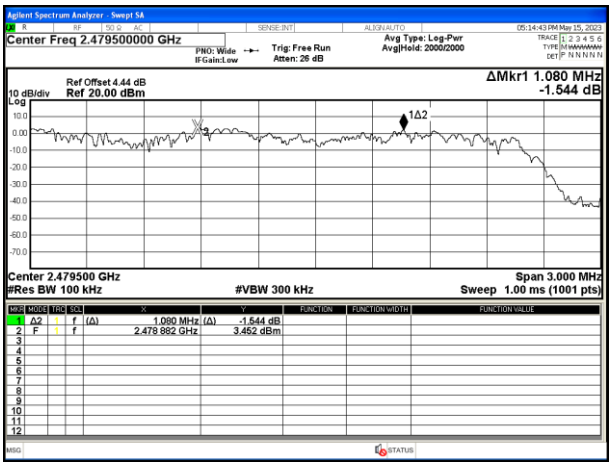

| Test Mode: | BDR Mode, CH78 | Test Mode: | EDR Mode, CH00 |
|---|---|---|---|



| Test Mode: | EDR Mode, CH39 | Test Mode: | EDR Mode, CH78 |
|---|---|---|---|

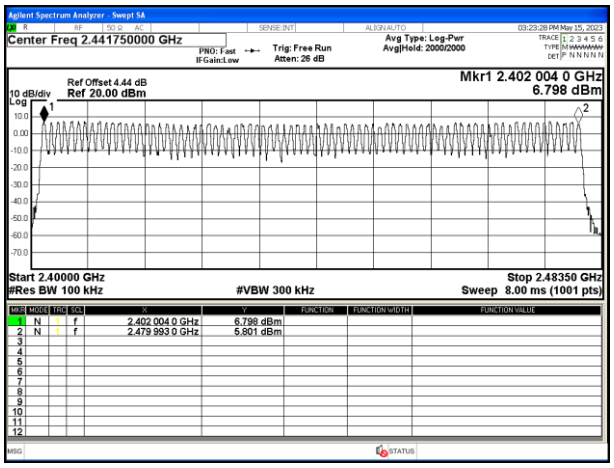


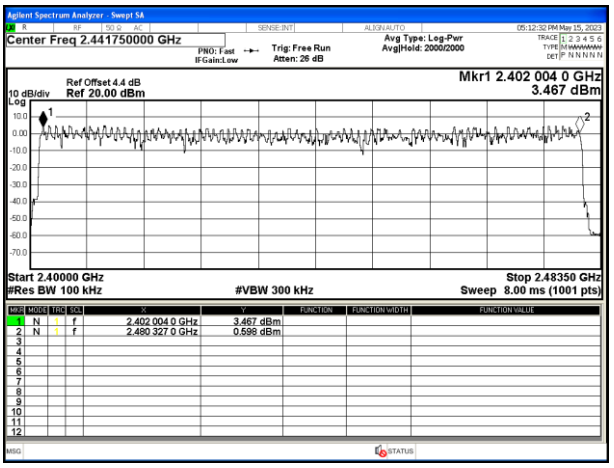



# Appendix A.5 Test Results of Number of Hopping Frequency

| Mode | Hopping Number | Limit | Verdict |
|---|---|---|---|
| BDR Hopping | 79 | 15 | Pass |
| EDR Hopping | 79 | 15 | Pass |

| Test Mode: | BDR Mode, Hopping | Test Mode: | EDR Mode, Hopping |
|---|---|---|---|

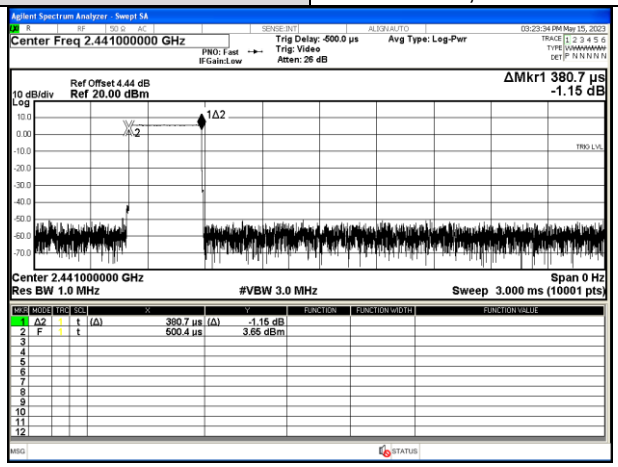


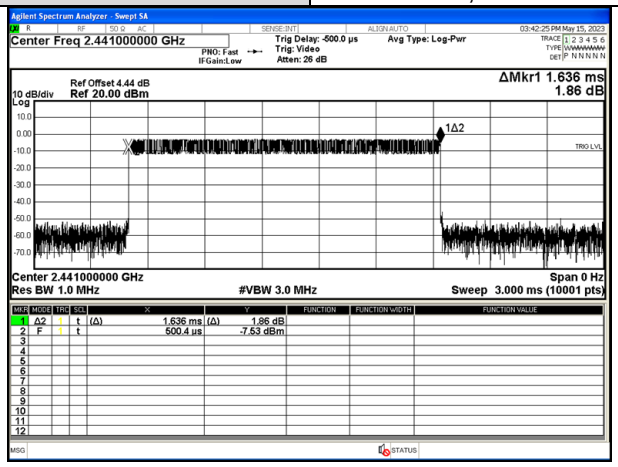
## Appendix A.6 Test Results of Time of Occupancy

| Mode | Frequency (MHz) | Pulse Time (ms) | Total Dwell Time (ms) | Period Time (ms) | Limit (ms) | Verdict |
|---|---|---|---|---|---|---|
| 1-DH1 | 2441 | 0.381 | 120.301 | 31600 | 400 | Pass |
| 1-DH3 | 2441 | 1.636 | 258.52 | 31600 | 400 | Pass |
| 1-DH5 | 2441 | 2.885 | 273.479 | 31600 | 400 | Pass |
| 3-DH1 | 2441 | 0.386 | 122.008 | 31600 | 400 | Pass |
| 3-DH3 | 2441 | 1.623 | 256.481 | 31600 | 400 | Pass |
| 3-DH5 | 2441 | 2.874 | 272.455 | 31600 | 400 | Pass |

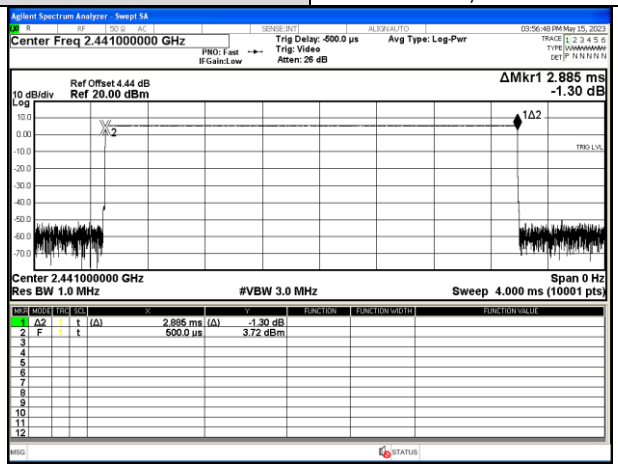
Test Mode: BDR Mode, DH1



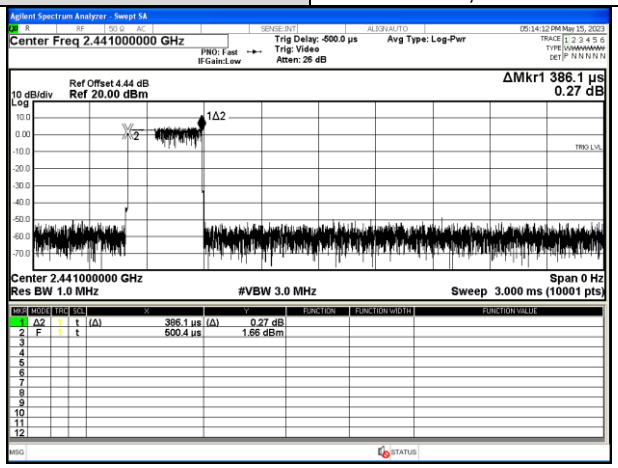

Test Mode: BDR Mode, DH3



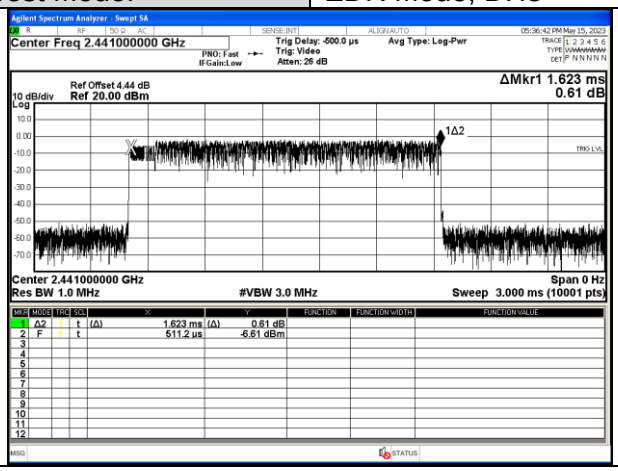

Test Mode: BDR Mode, DH5



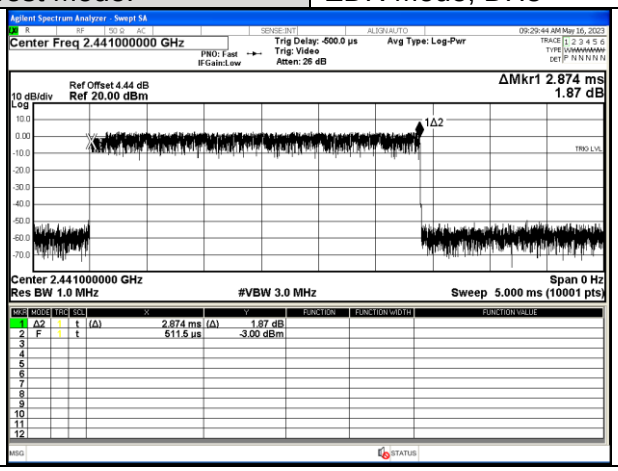

Test Mode: EDR Mode, DH1




Test Mode: EDR Mode, DH3



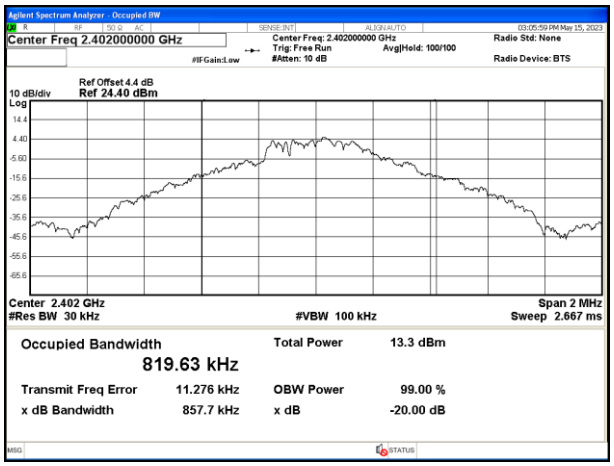

Test Mode: EDR Mode, DH5

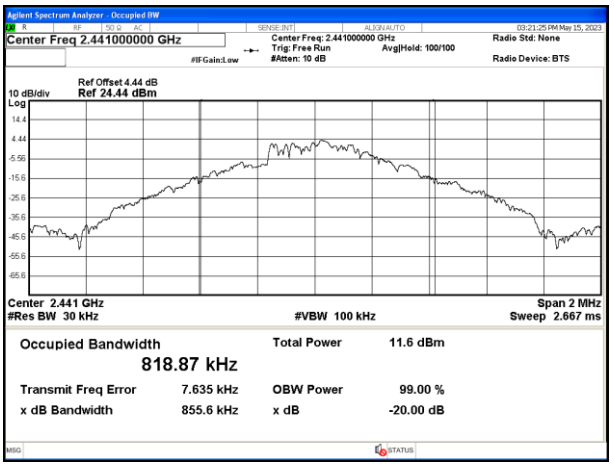


# Appendix A.7 Test Results of 20dB & 99% BANDWIDTH

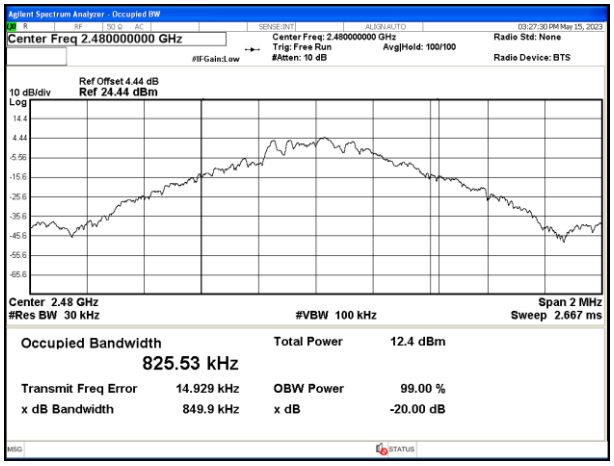
| Mode | Frequency [MHz] | 99% Bandwidth [MHz] | 20dB Bandwidth [MHz] |
|---|---|---|---|
| BDR DH1 | 2402 | 0.8196 | 0.8577 |
| BDR DH1 | 2441 | 0.8189 | 0.8556 |
| BDR DH1 | 2480 | 0.8255 | 0.8499 |
| BDR DH5 | 2402 | 0.8572 | 0.9441 |
| BDR DH5 | 2441 | 0.8481 | 0.9401 |
| BDR DH5 | 2480 | 0.8532 | 0.9511 |
| EDR DH1 | 2402 | 1.1452 | 1.2089 |
| EDR DH1 | 2441 | 1.145 | 1.2176 |
| EDR DH1 | 2480 | 1.1487 | 1.2281 |
| EDR DH5 | 2402 | 1.1828 | 1.3004 |
| EDR DH5 | 2441 | 1.1988 | 1.3141 |
| EDR DH5 | 2480 | 1.1782 | 1.2859 |

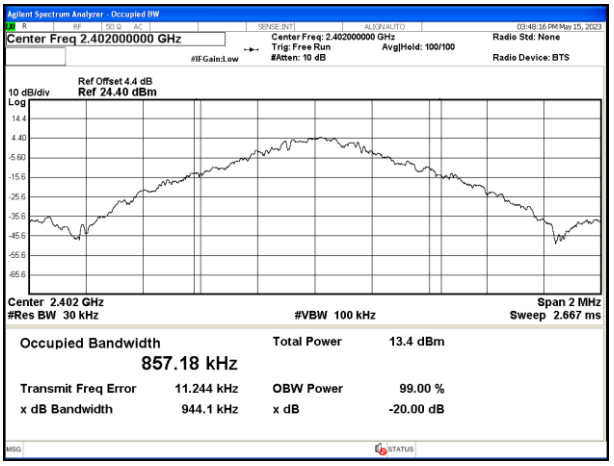
| Test Mode: | BDR Mode, DH1,CH00 | Test Mode: | BDR Mode, DH1,CH39 |
|---|---|---|---|



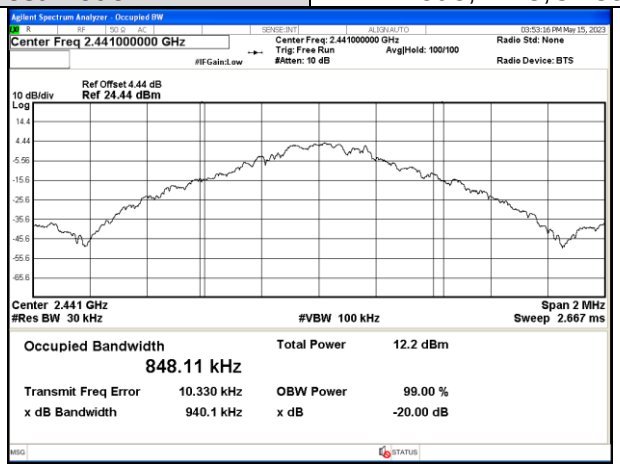




| Test Mode: | BDR Mode, DH1,CH78 | Test Mode: | BDR Mode, DH5,CH00 |
|---|---|---|---|

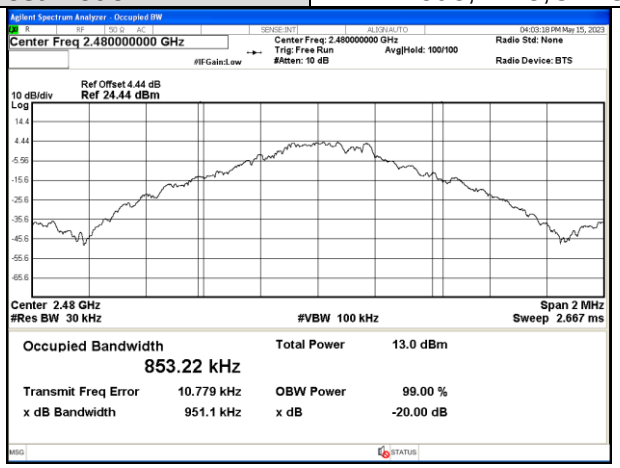


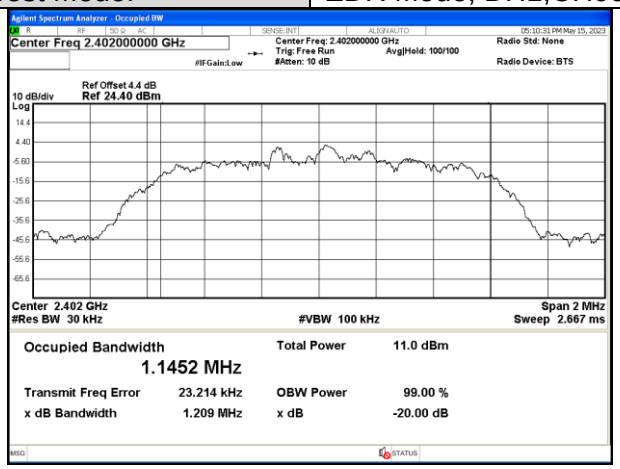
| Test Mode: | BDR Mode, DH5,CH39 |
|---|---|



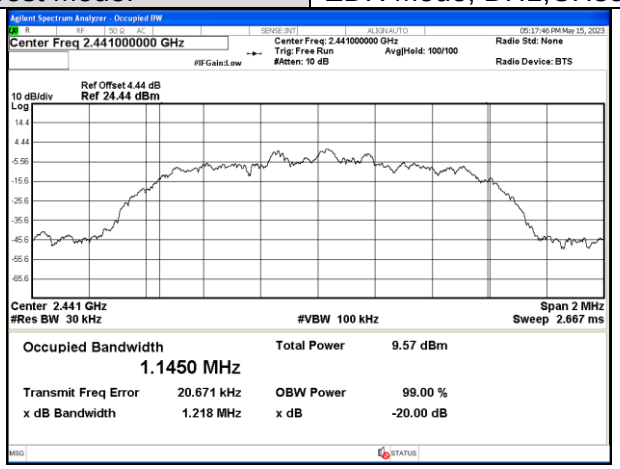

| Test Mode: | BDR Mode, DH5,CH78 |
|---|---|



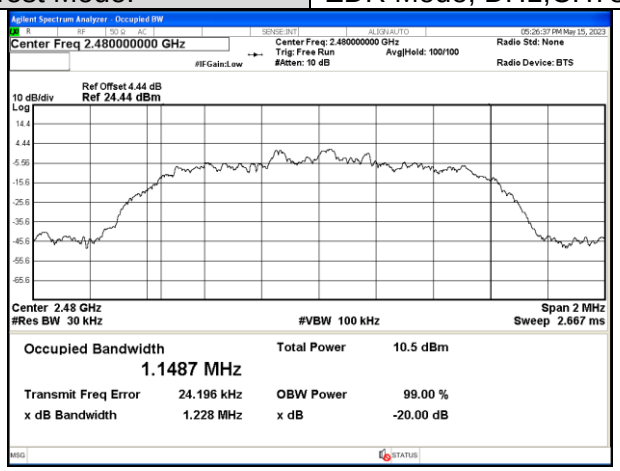

| Test Mode: | EDR Mode, DH1,CH00 |
|---|---|



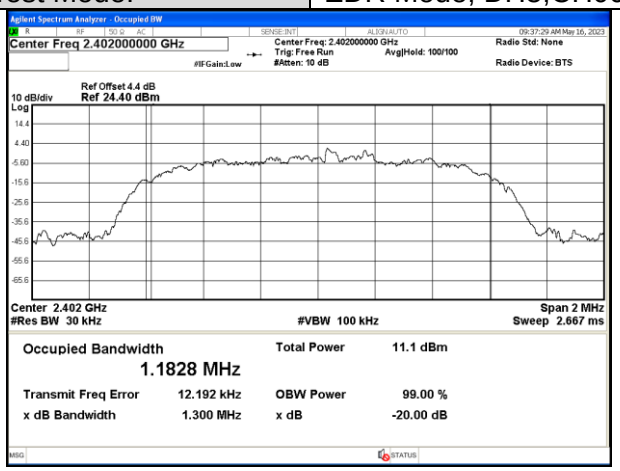

| Test Mode: | EDR Mode, DH1,CH39 |
|---|---|



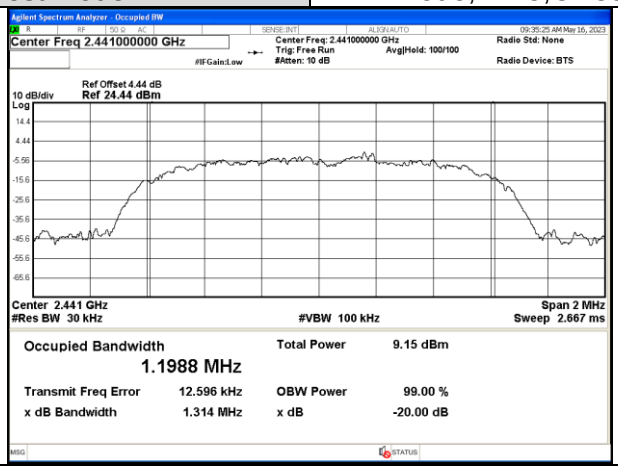

| Test Mode: | EDR Mode, DH1,CH78 |
|---|---|

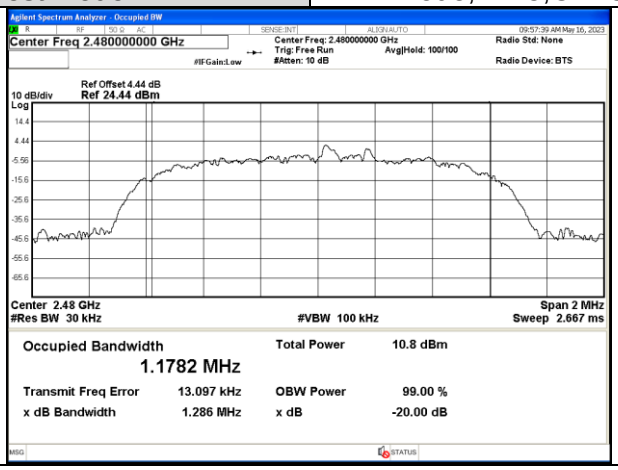



| Test Mode: | EDR Mode, DH5,CH00 |
|---|---|



| Test Mode: | EDR Mode, DH5,CH39 | Test Mode: | EDR Mode, DH5,CH78 |
|---|---|---|---|



# Appendix A.8 Test Results of Maximum Conducted Output Power

| Mode | Frequency [MHz] | Measured of Peak Power | | Limit [W] |
|---|---|---|---|---|
| | | dBm | W | |
| BDR | 2402 | 7.175 | 0.0052 | < 0.125 |
| | 2441 | 5.695 | 0.0037 | < 0.125 |
| | 2480 | 6.700 | 0.0047 | < 0.125 |
| EDR | 2402 | 6.931 | 0.0049 | < 0.125 |
| | 2441 | 5.231 | 0.0033 | < 0.125 |
| | 2480 | 6.353 | 0.0043 | < 0.125 |

**Note:**
1) The cable loss is taken into account in results.
2) Antenna gain(G) of 802.11 b/g/n: 3.54 dBi(ANT1)
e.i.r.p.=P(Peak power)+ G, which is far below the 4 W
3) Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.