# Appendix Test Data

| | | | |
|---|---|---|---|
| Report No.: | 18220WC30263602 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2024.1.10 | Finish Test Date: | 2024.1.10 |
| Test Engineer: | Hayman Chen | Auditor: | Rick Luo |
| Temperature: | 25.3℃ | Relative Humidity: | 46% |
| Pressure: | 101kPa | | |

## Appendix A: DTS Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 2.4G | Ant1 | 2402 | 0.632 | 2401.712 | 2402.344 | 0.5 | PASS |
| | | 2440 | 0.652 | 2439.684 | 2440.336 | 0.5 | PASS |
| | | 2479 | 0.648 | 2478.688 | 2479.336 | 0.5 | PASS |

### Test Graphs

2.4G_Ant1_2402

2.4G_Ant1_2440

2.4G_Ant1_2479

# Appendix B: Occupied Channel Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|---|---|---|---|---|---|
| 2.4G | Ant1 | 2402 | 1.1138 | 2401.4557 | 2402.5695 |
| | | 2440 | 1.1227 | 2439.4285 | 2440.5512 |
| | | 2479 | 1.2090 | 2478.3452 | 2479.5542 |

## Test Graphs

2.4G_Ant1_2402

2.4G_Ant1_2440

2.4G_Ant1_2479

# Appendix C: Maximum conducted output power

## Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|---|---|---|---|---|---|
| 2.4G | Ant1 | 2402 | 9.32 | ≤30 | PASS |
| | | 2440 | 9.32 | ≤30 | PASS |
| | | 2479 | 8.29 | ≤30 | PASS |

## Test Graphs Peak

2.4G_Ant1_2402

2.4G_Ant1_2440

2.4G_Ant1_2479

# Appendix D: Maximum power spectral density

## Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|---|---|---|---|---|---|
| 2.4G | Ant1 | 2402 | -4.89 | ≤8.00 | PASS |
| | | 2440 | -5.26 | ≤8.00 | PASS |
| | | 2479 | -4.66 | ≤8.00 | PASS |

## Test Graphs

2.4G_Ant1_2402

2.4G_Ant1_2440

2.4G_Ant1_2479

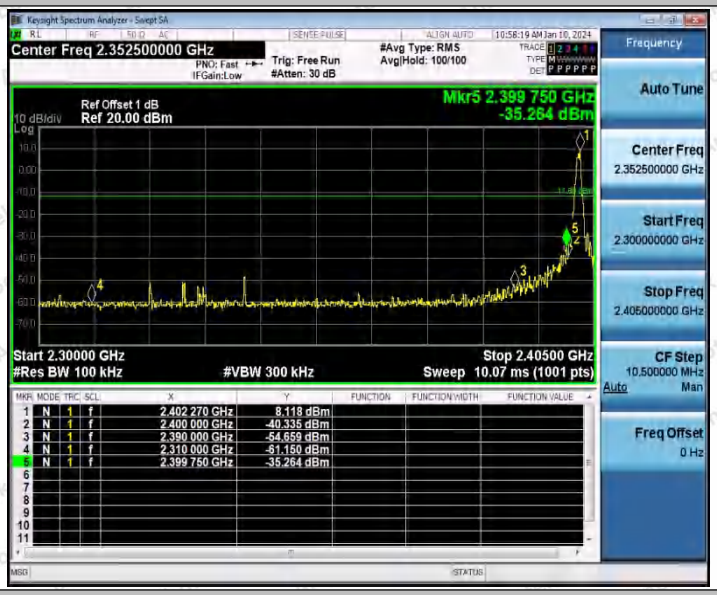
# Appendix E: Band edge measurements

## Test Result

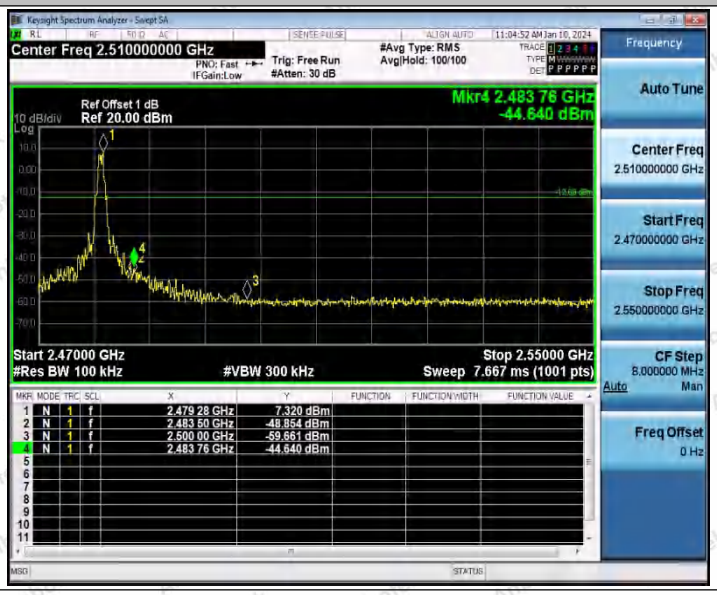
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 2.4G | Ant1 | Low | 2402 | 8.12 | -35.26 | ≤-11.88 | PASS |
| | | High | 2479 | 7.32 | -44.64 | ≤-12.68 | PASS |

## Test Graphs

2.4G_Ant1_Low_2402




2.4G_Ant1_High_2479



# Appendix F: Conducted Spurious Emission

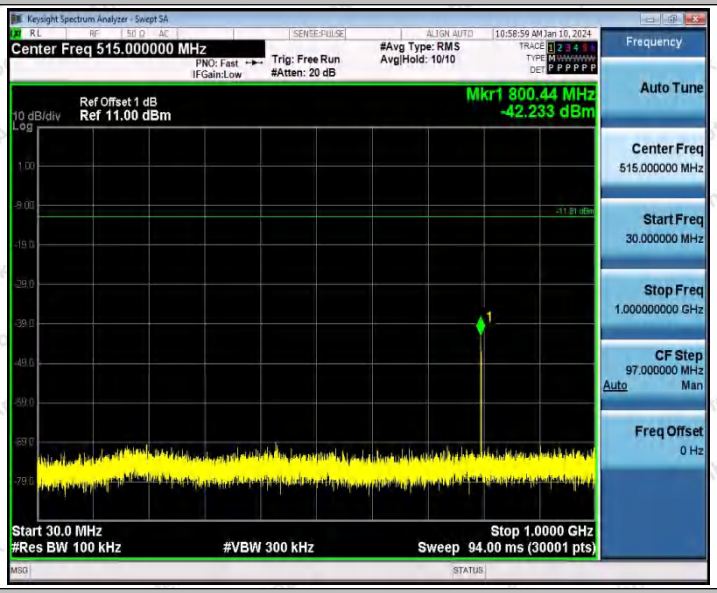
## Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 2.4G | Ant1 | 2402 | Reference | 8.19 | 8.19 | --- | PASS |
| | | | 30~1000 | 8.19 | -42.23 | ≤-11.81 | PASS |
| | | | 1000~26500 | 8.19 | -26.99 | ≤-11.81 | PASS |
| | | 2440 | Reference | 8.32 | 8.32 | --- | PASS |
| | | | 30~1000 | 8.32 | -41.72 | ≤-11.68 | PASS |
| | | | 1000~26500 | 8.32 | -29.58 | ≤-11.68 | PASS |
| | | 2479 | Reference | 7.33 | 7.33 | --- | PASS |
| | | | 30~1000 | 7.33 | -39.16 | ≤-12.67 | PASS |
| | | | 1000~26500 | 7.33 | -31.92 | ≤-12.67 | PASS |

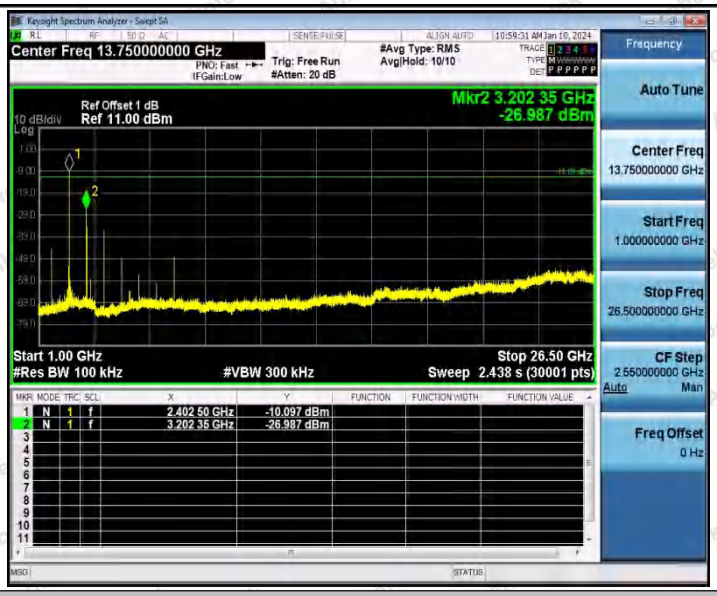
## Test Graphs

2.4G_Ant1_2402_0~Reference

2.4G_Ant1_2402_30~1000

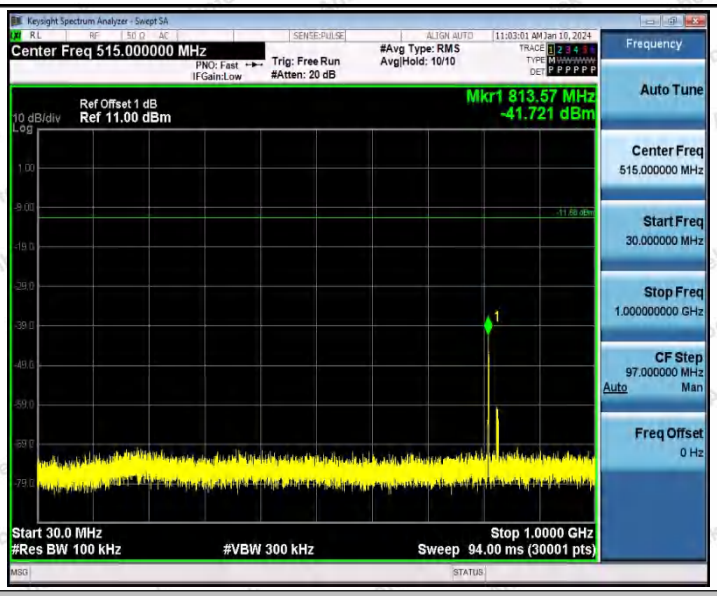



2.4G_Ant1_2402_1000~26500

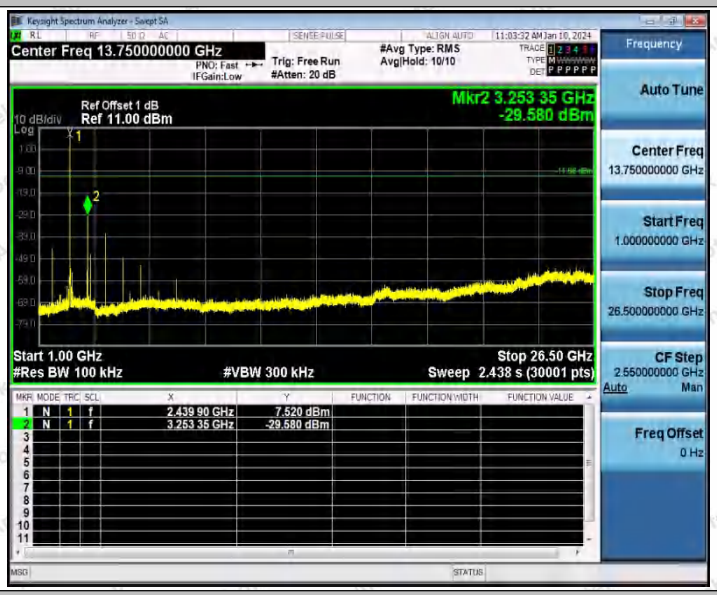



2.4G_Ant1_2440_0~Reference

2.4G_Ant1_2440_30~1000

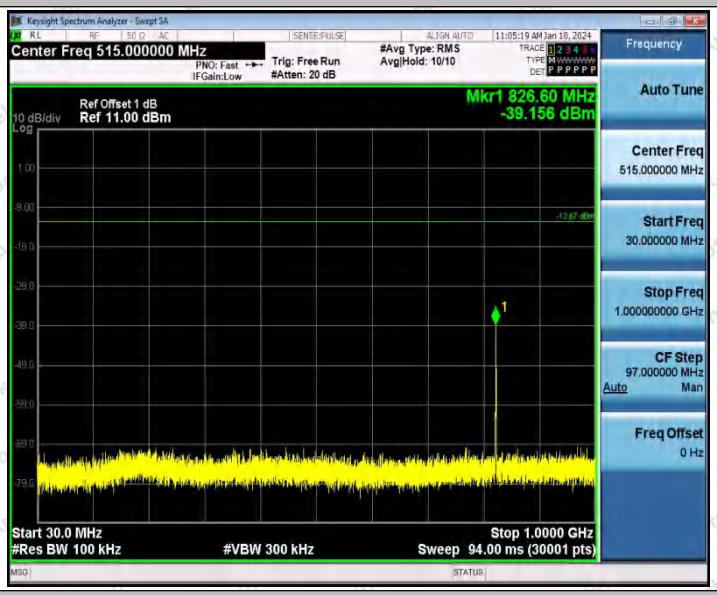



2.4G_Ant1_2440_1000~26500

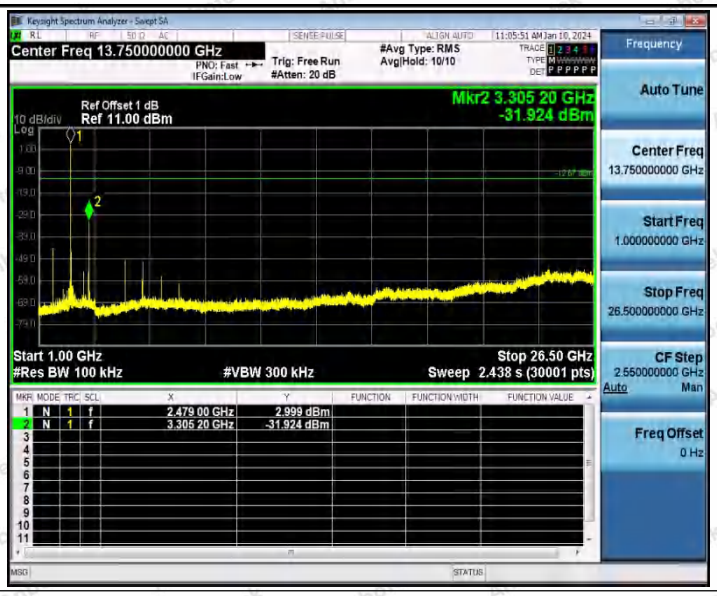



2.4G_Ant1_2479_0~Reference

2.4G_Ant1_2479_30~1000




2.4G_Ant1_2479_1000~26500


Keysight Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 10/10
11:05:51 AM Jan 10, 2024
Ref Offset 1 dB
10 dB/div
Ref 11.00 dBm
Mkr2 3.305 20 GHz
-31.924 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.479 00 GHz 2.999 dBm
2 N 1 f 3.305 20 GHz -31.924 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz

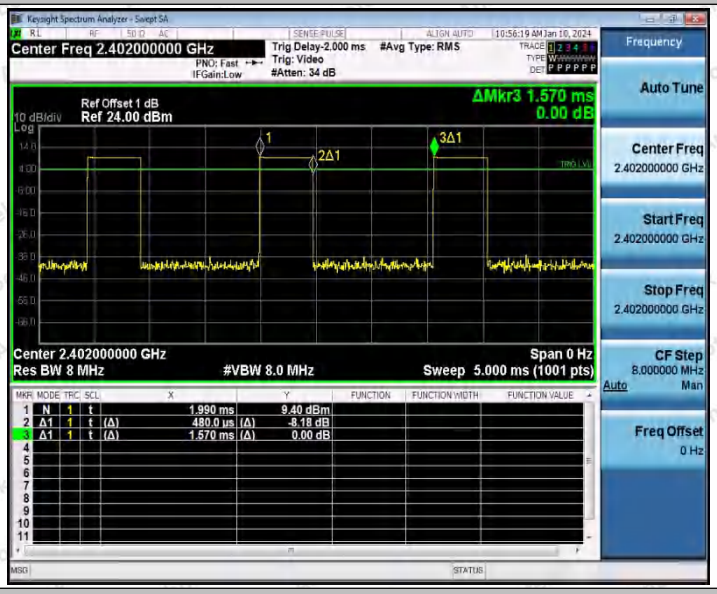
# Appendix G: Duty Cycle

## Test Result

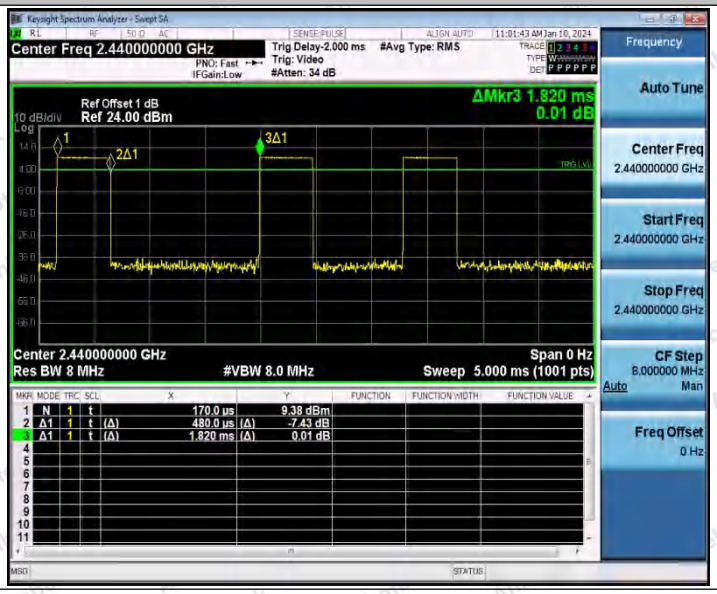
| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|---|---|---|---|---|---|---|
| 2.4G | Ant1 | 2402 | 0.48 | 1.57 | 30.57 | 5.15 |
| | | 2440 | 0.48 | 1.82 | 26.37 | 5.79 |
| | | 2479 | 0.48 | 1.84 | 26.09 | 5.84 |

## Test Graphs

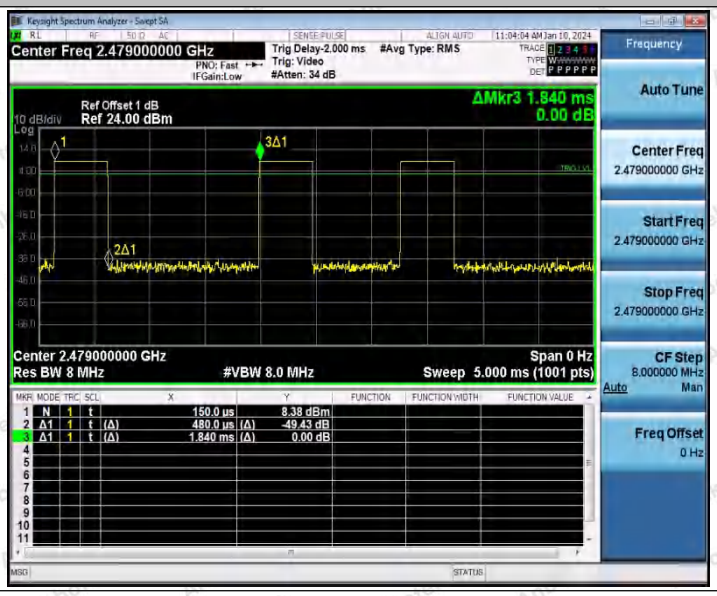
2.4G_Ant1_2402




2.4G_Ant1_2440



2.4G_Ant1_2479




--------End------