

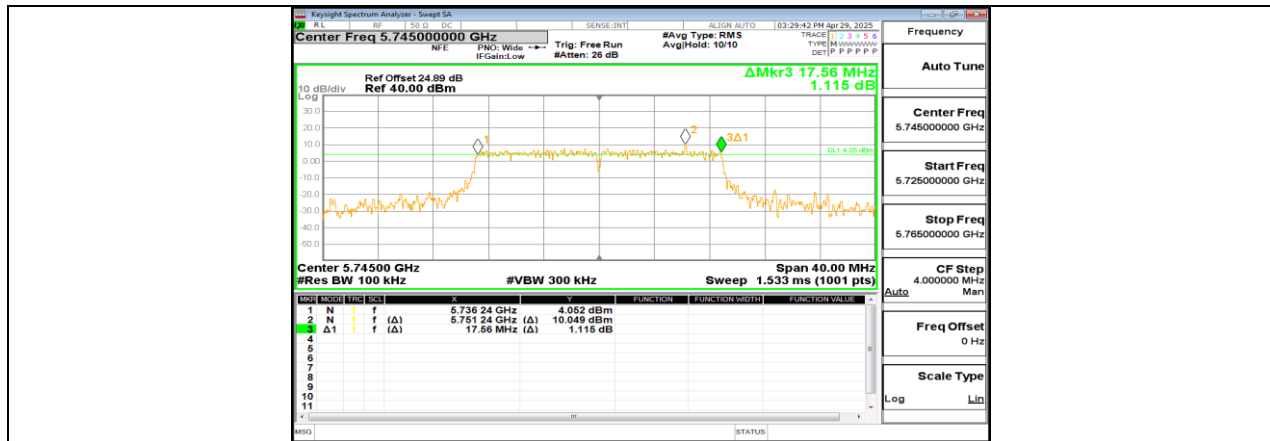
11A_Ant1_5785



11A_Ant0_5825



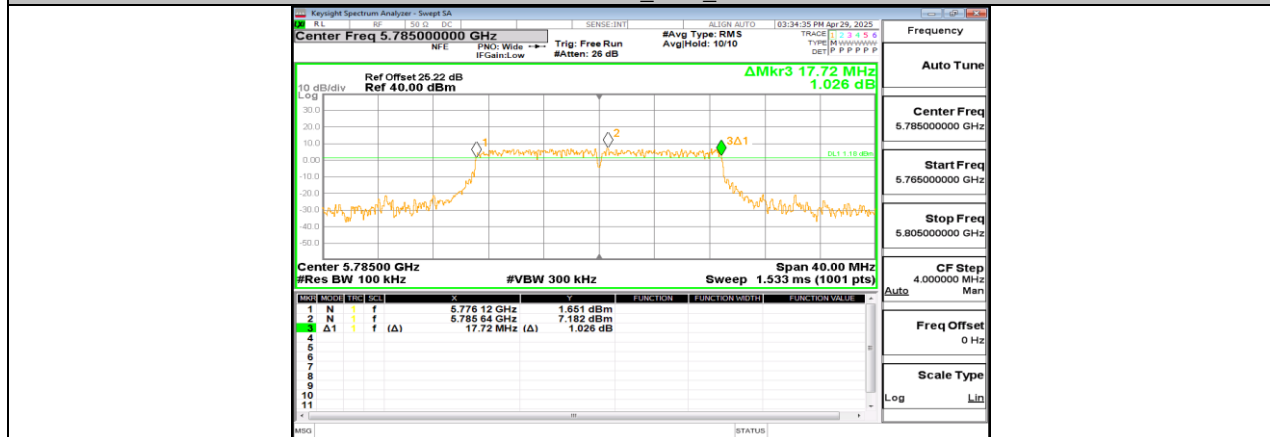
11A_Ant1_5825



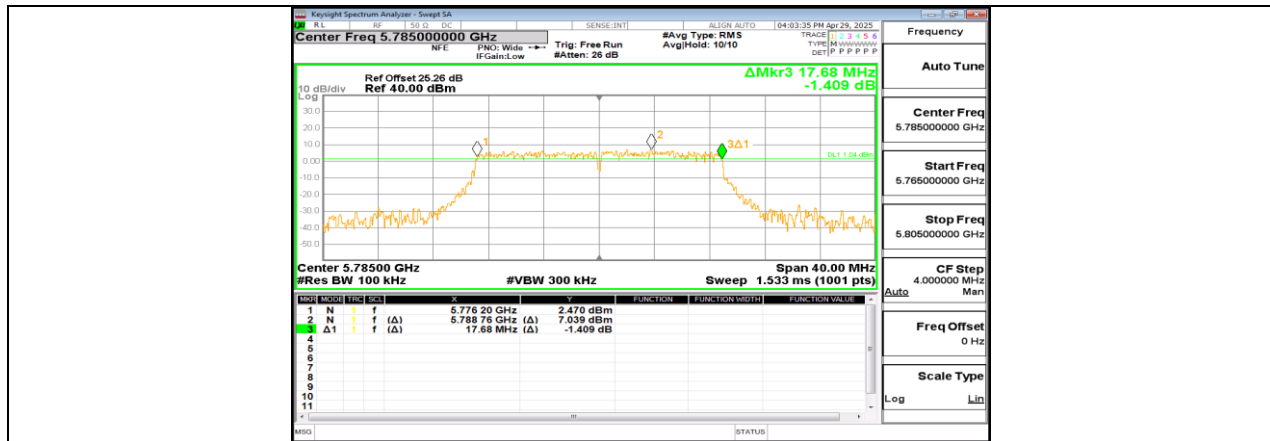
11N20SISO_Ant0_5745



11N20SISO_Ant1_5745



11N20SISO_Ant0_5785



11N20SISO_Ant1_5785



11N20SISO_Ant0_5825



11N20SISO_Ant1_5825

10.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER**10.4.1. Test Result**

| Test Mode | Antenna | Frequency[MHz] | Power [dBm] | FCC Limit [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-------------|-----------------|------------|-------------|---------|
| 11A | Ant0 | 5745 | 22.92 | ≤30.00 | 28.11 | --- | PASS |
| | Ant1 | 5745 | 21.77 | ≤30.00 | 26.96 | --- | PASS |
| | Ant0 | 5785 | 22.80 | ≤30.00 | 27.99 | --- | PASS |
| | Ant1 | 5785 | 22.24 | ≤30.00 | 27.43 | --- | PASS |
| | Ant0 | 5825 | 22.34 | ≤30.00 | 27.53 | --- | PASS |
| | Ant1 | 5825 | 21.81 | ≤30.00 | 27.00 | --- | PASS |
| 11N20SISO | Ant0 | 5745 | 22.91 | ≤30.00 | 28.10 | --- | PASS |
| | Ant1 | 5745 | 22.75 | ≤30.00 | 27.94 | --- | PASS |
| | Ant0 | 5785 | 22.78 | ≤30.00 | 27.97 | --- | PASS |
| | Ant1 | 5785 | 22.21 | ≤30.00 | 27.40 | --- | PASS |
| | Ant0 | 5825 | 22.32 | ≤30.00 | 27.51 | --- | PASS |
| | Ant1 | 5825 | 23.06 | ≤30.00 | 28.25 | --- | PASS |

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

10.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

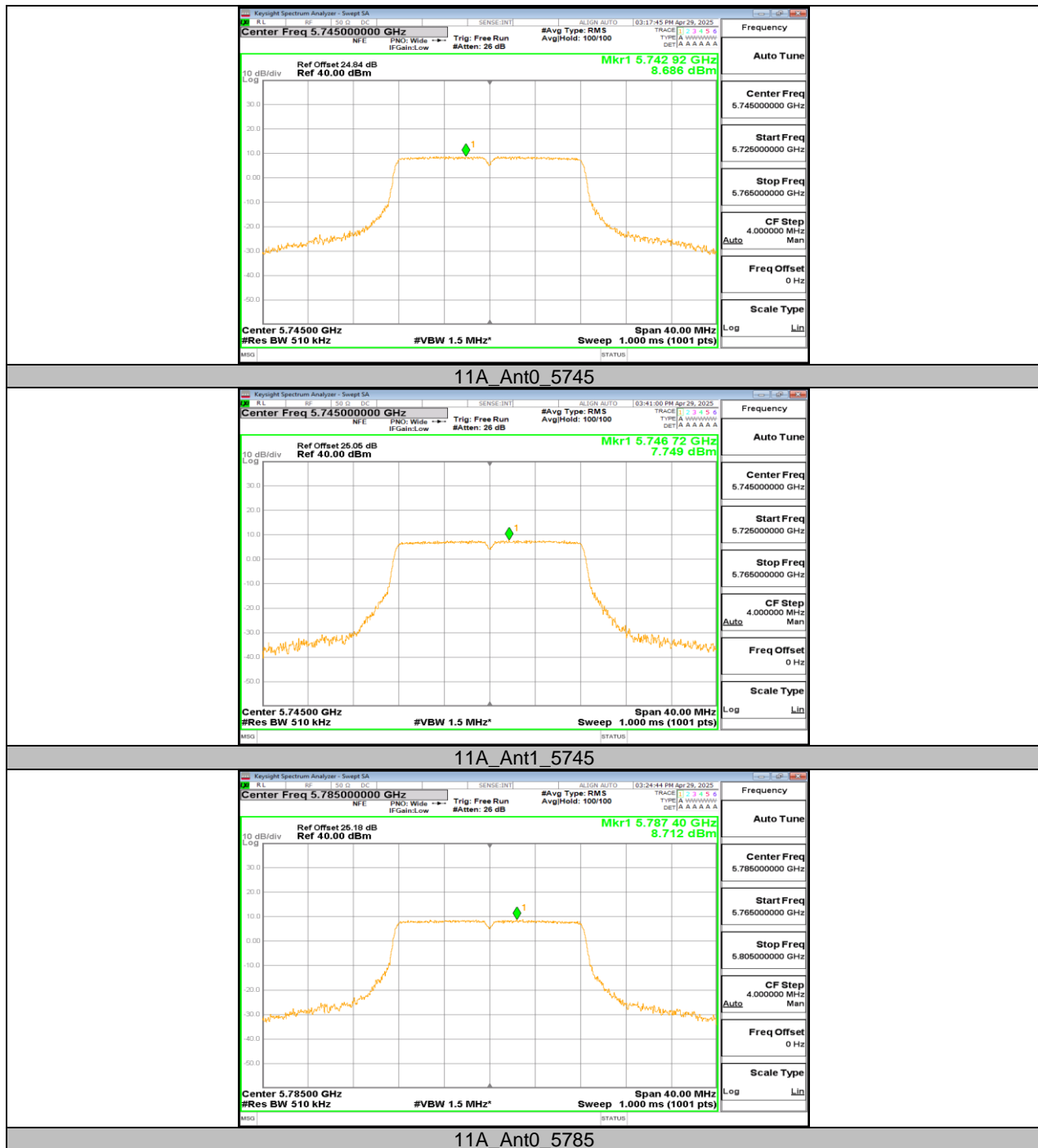
10.5.1. Test Result

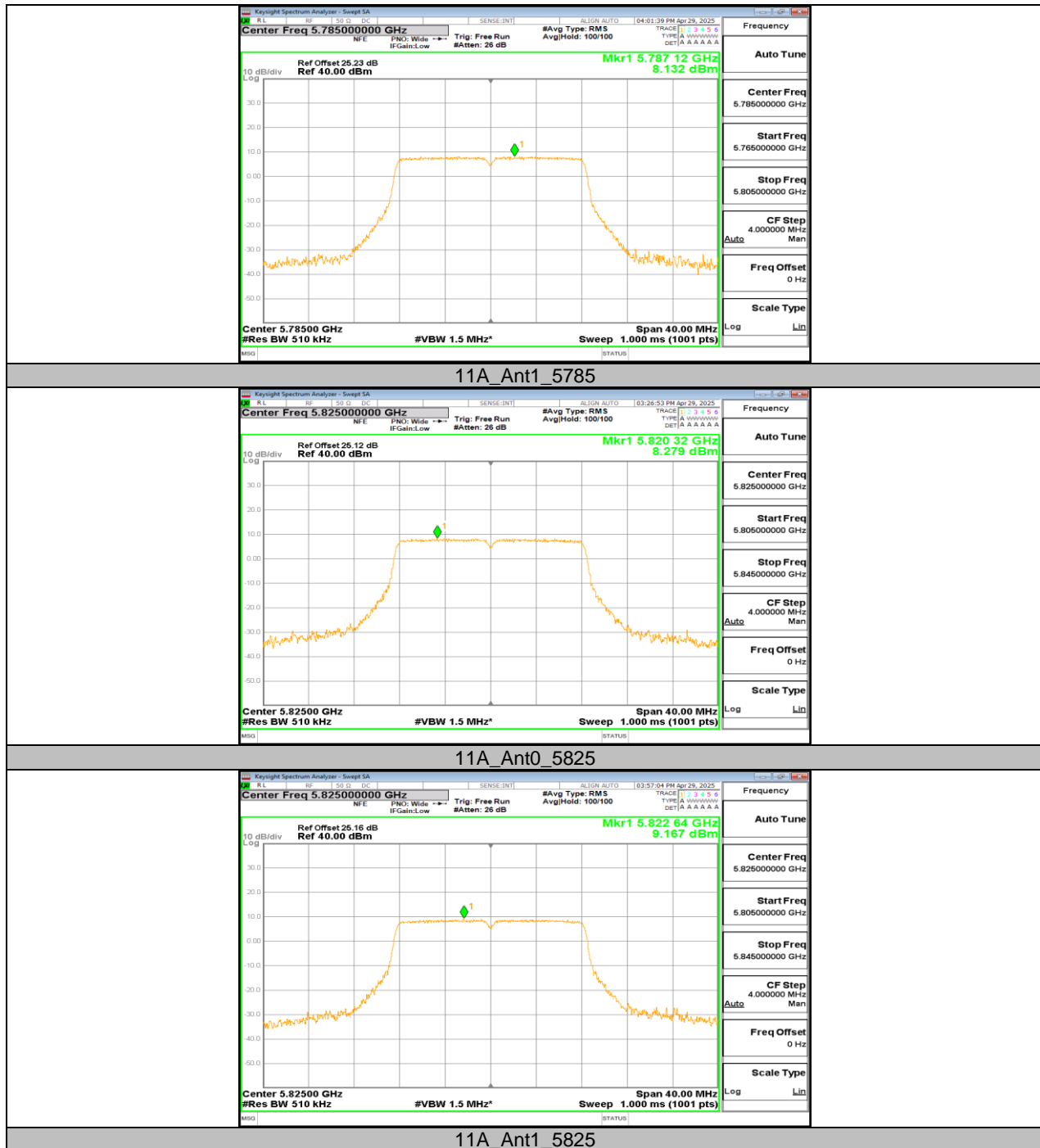
| Test Mode | Antenna | Frequency[MHz] | Power [dBm/MHz] | Limit [dBm/MHz] | EIRP [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|---------|----------------|-----------------|-----------------|----------------|-----------------|---------|
| 11A | Ant0 | 5745 | 8.69 | ≤30.00 | 13.88 | --- | PASS |
| | Ant1 | 5745 | 7.75 | ≤30.00 | 12.94 | --- | PASS |
| | Ant0 | 5785 | 8.71 | ≤30.00 | 13.90 | --- | PASS |
| | Ant1 | 5785 | 8.13 | ≤30.00 | 13.32 | --- | PASS |
| | Ant0 | 5825 | 8.28 | ≤30.00 | 13.47 | --- | PASS |
| | Ant1 | 5825 | 9.17 | ≤30.00 | 14.36 | --- | PASS |
| 11N20SISO | Ant0 | 5745 | 8.59 | ≤30.00 | 13.78 | --- | PASS |
| | Ant1 | 5745 | 8.58 | ≤30.00 | 13.77 | --- | PASS |
| | Ant0 | 5785 | 8.39 | ≤30.00 | 13.58 | --- | PASS |
| | Ant1 | 5785 | 7.86 | ≤30.00 | 13.05 | --- | PASS |
| | Ant0 | 5825 | 7.95 | ≤30.00 | 13.14 | --- | PASS |
| | Ant1 | 5825 | 8.87 | ≤30.00 | 14.06 | --- | PASS |

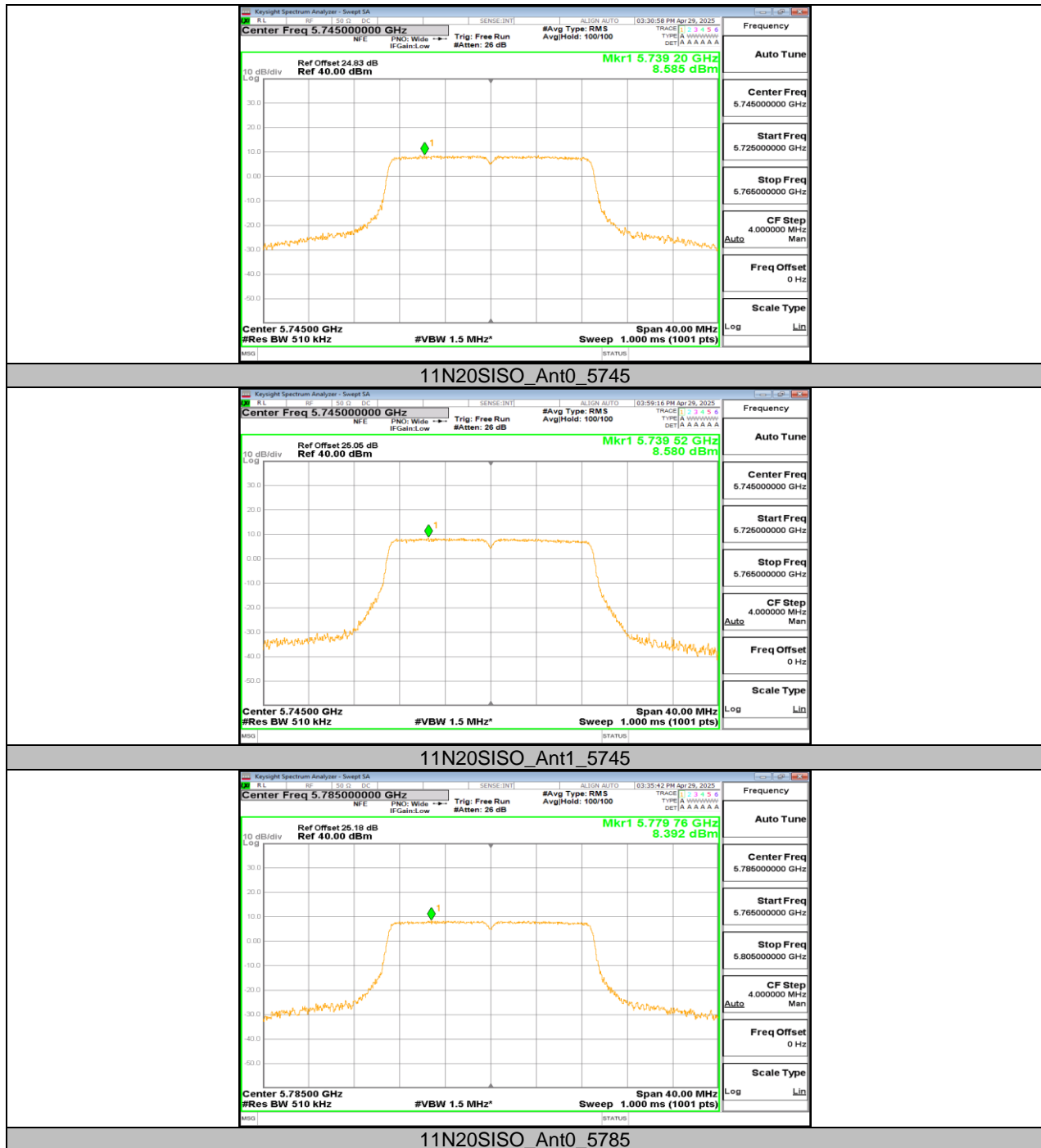
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

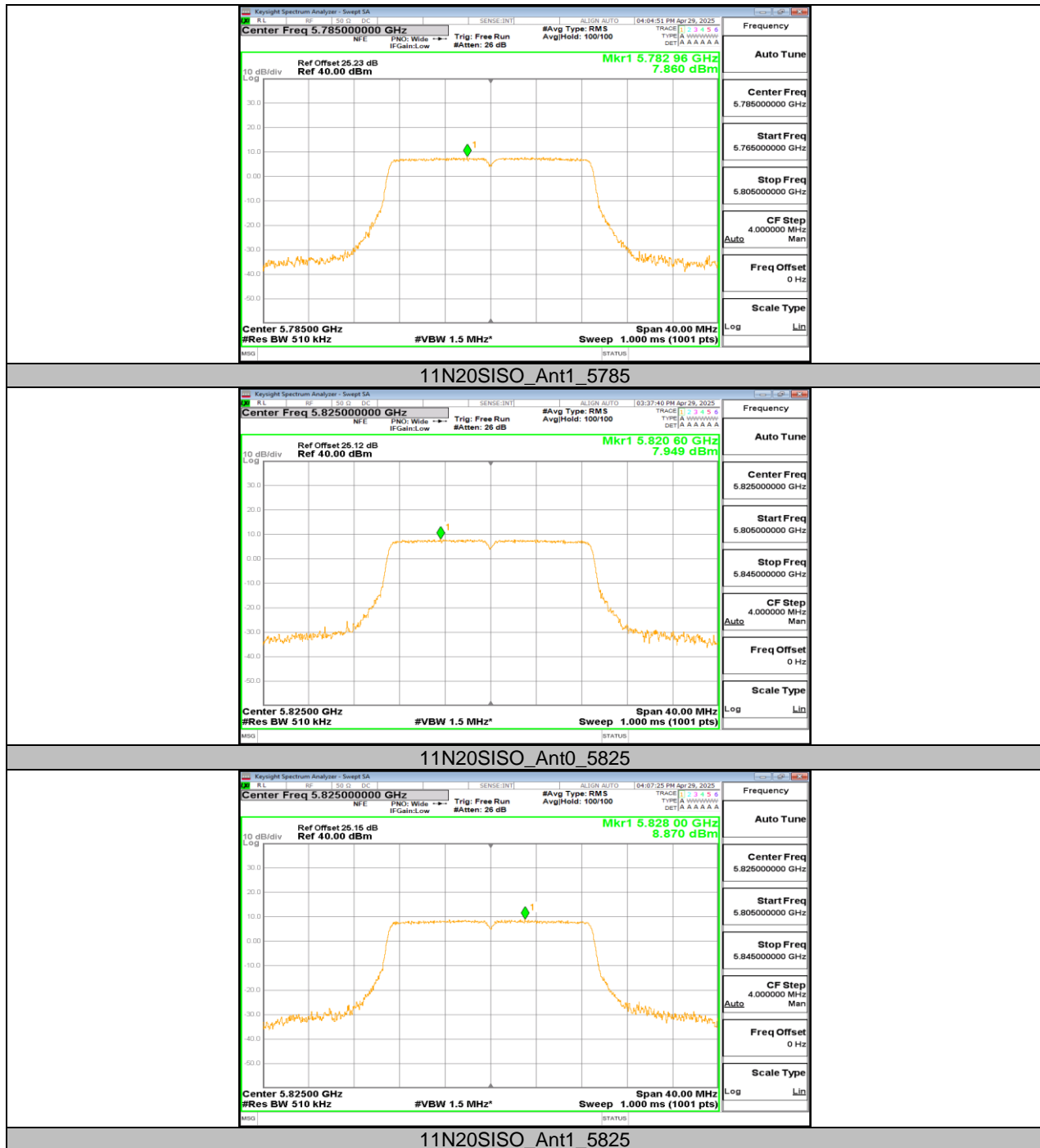
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

10.5.2. Test Graphs









10.6. APPENDIX I: FREQUENCY STABILITY

10.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---------------------------------|------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
| 802.11a:5200MHz | | | | | | | | | |
| Temp | Volt | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN | VL | 5824.991 ₇ | -1.43 | 5824.9852 | -2.54 | 5824.979 ₂ | -3.58 | 5824.995 ₂ | -0.82 |
| TN | VN | 5825.004 ₀ | 0.69 | 5825.0230 | 3.96 | 5824.993 ₅ | -1.12 | 5824.976 ₀ | -4.13 |
| TN | VH | 5824.996 ₀ | -0.69 | 5824.9815 | -3.18 | 5824.976 ₆ | -4.02 | 5825.005 ₀ | 0.86 |
| Frequency Error vs. Temperature | | | | | | | | | |
| 802.11a:5200MHz | | | | | | | | | |
| Temp | Volt | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70 | VN | 5825.022 ₉ | 3.93 | 5824.999 ₁ | -0.15 | 5825.013 ₂ | 2.26 | 5825.010 ₈ | 1.85 |
| 60 | VN | 5825.005 ₀ | 0.85 | 5825.008 ₈ | 1.51 | 5824.980 ₉ | -3.29 | 5825.010 ₃ | 1.77 |
| 50 | VN | 5824.982 ₄ | -3.03 | 5824.988 ₇ | -1.94 | 5824.976 ₉ | -3.97 | 5824.989 ₆ | -1.79 |
| 40 | VN | 5825.021 ₄ | 3.67 | 5824.987 ₃ | -2.18 | 5825.005 ₉ | 1.02 | 5824.999 ₅ | -0.09 |
| 30 | VN | 5825.014 ₅ | 2.49 | 5825.010 ₂ | 1.75 | 5825.003 ₉ | 0.67 | 5825.024 ₈ | 4.26 |
| 20 | VN | 5824.978 ₂ | -3.74 | 5824.983 ₆ | -2.81 | 5824.978 ₅ | -3.69 | 5824.984 ₅ | -2.66 |
| 10 | VN | 5825.012 ₂ | 2.10 | 5824.993 ₇ | -1.09 | 5825.003 ₇ | 0.64 | 5824.995 ₅ | -0.77 |
| 0 | VN | 5825.020 ₅ | 3.52 | 5824.983 ₅ | -2.84 | 5825.020 ₂ | 3.46 | 5824.980 ₈ | -3.30 |
| -10 | VN | 5825.022 ₉ | 3.93 | 5824.999 ₁ | -0.15 | 5825.013 ₂ | 2.26 | 5825.010 ₈ | 1.85 |

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

10.7. APPENDIX J: DUTY CYCLE**10.7.1. Test Result**

| Test Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|-----------|-------------------|------------------|--------------------------------|----------------------|--------------------------------------------|--------------------------------|--------------------------------------|
| 11A | 100.30 | 100.30 | 1.0000 | 100.00 | 0.00 | 0.01 | 0.01 |
| 11N20SISO | 100.30 | 100.30 | 1.0000 | 100.00 | 0.00 | 0.01 | 0.01 |

Note:

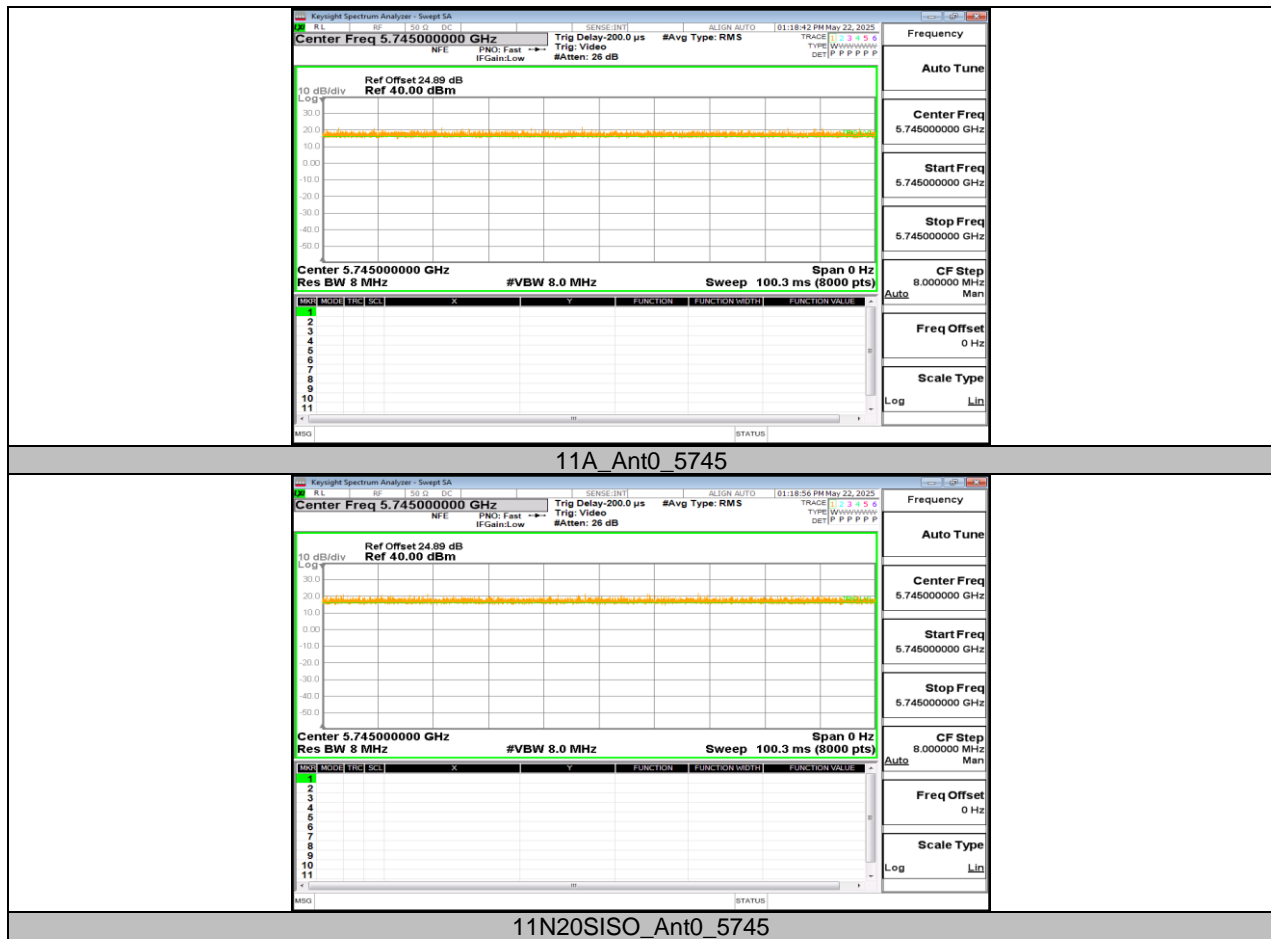
Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

10.7.2. Test Graphs



END OF REPORT