

## Appendix C

### RF Test Data for 5.8GWIFI (Conducted Measurement)

**Product Name:** ata05 Humanized Teleoperated Robot

**Test Model:** ATA MPM-05

#### Environmental Conditions

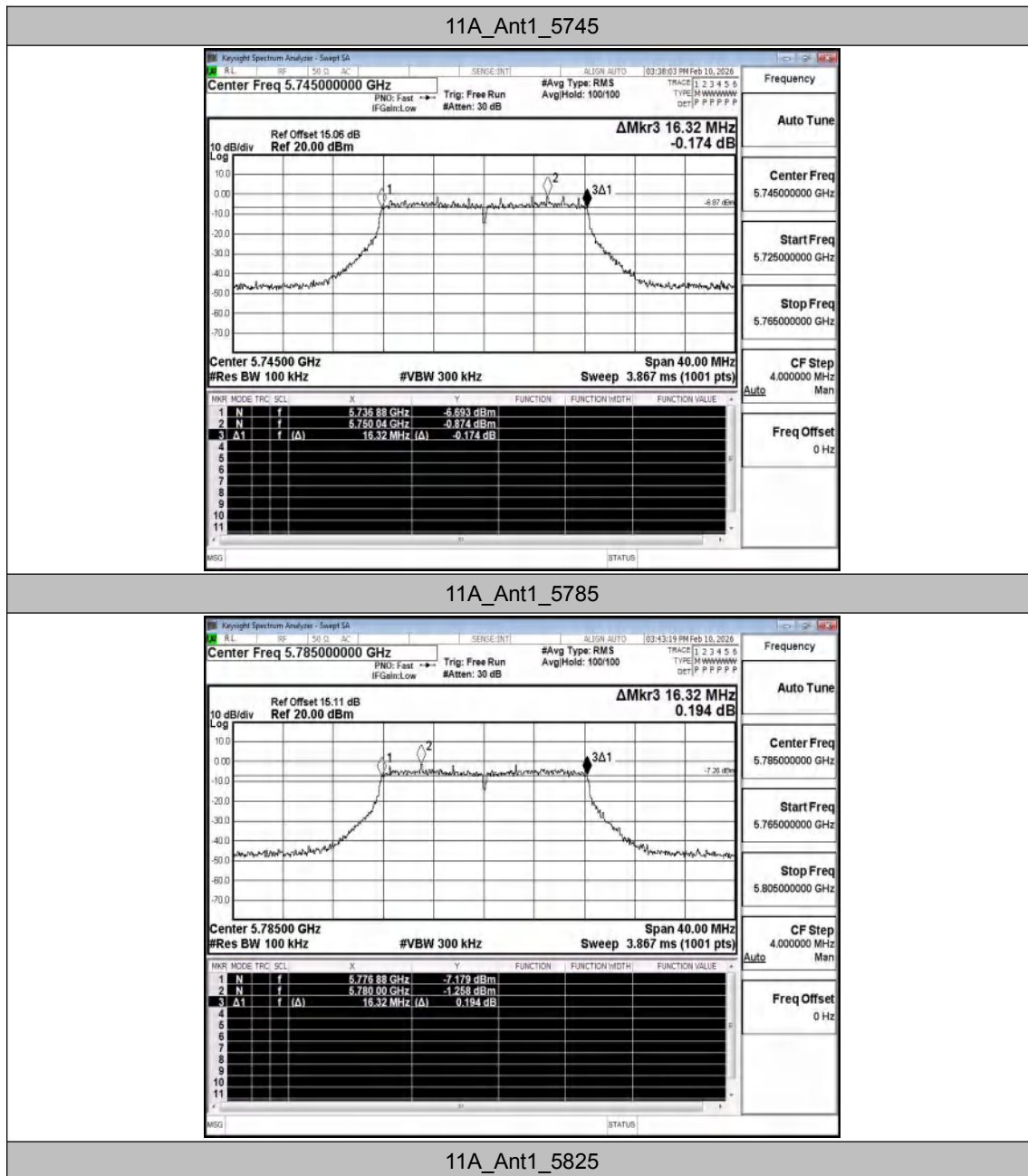
|                    |              |
|--------------------|--------------|
| Temperature:       | 23.5°C       |
| Relative Humidity: | 54.3%        |
| ATM Pressure:      | 100.0 kPa    |
| Test Engineer:     | Zhang hai    |
| Supervised by:     | Fengliu Tang |

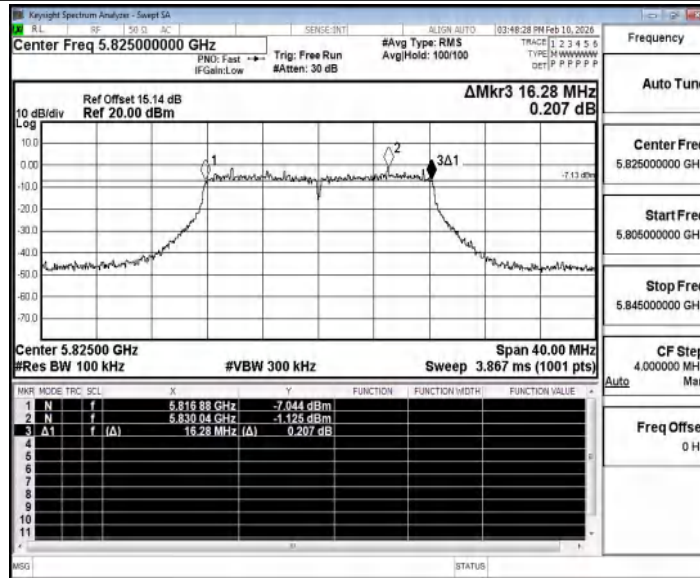
## C.1 Min emission bandwidth

### Test Result B4

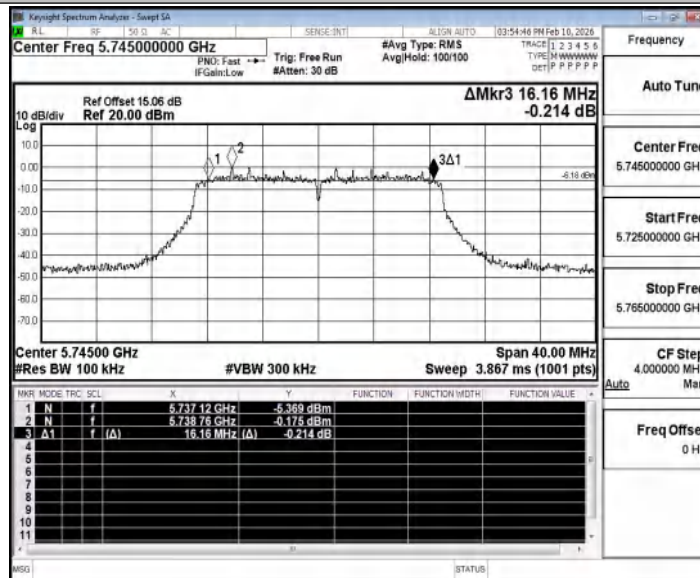
| TestMode   | Antenna | Freq(MHz) | 6db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|-----------|------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5745      | 16.320           | 5736.880 | 5753.200 | 0.5        | PASS    |
|            |         | 5785      | 16.320           | 5776.880 | 5793.200 | 0.5        | PASS    |
|            |         | 5825      | 16.280           | 5816.880 | 5833.160 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745      | 16.160           | 5737.120 | 5753.280 | 0.5        | PASS    |
|            |         | 5785      | 16.480           | 5776.880 | 5793.360 | 0.5        | PASS    |
|            |         | 5825      | 16.760           | 5816.640 | 5833.400 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755      | 35.520           | 5737.400 | 5772.920 | 0.5        | PASS    |
|            |         | 5795      | 35.600           | 5777.160 | 5812.760 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745      | 16.800           | 5736.640 | 5753.440 | 0.5        | PASS    |
|            |         | 5785      | 16.920           | 5776.640 | 5793.560 | 0.5        | PASS    |
|            |         | 5825      | 16.360           | 5817.040 | 5833.400 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755      | 35.840           | 5737.160 | 5773.000 | 0.5        | PASS    |
|            |         | 5795      | 35.920           | 5777.160 | 5813.080 | 0.5        | PASS    |

## Test Graphs B4

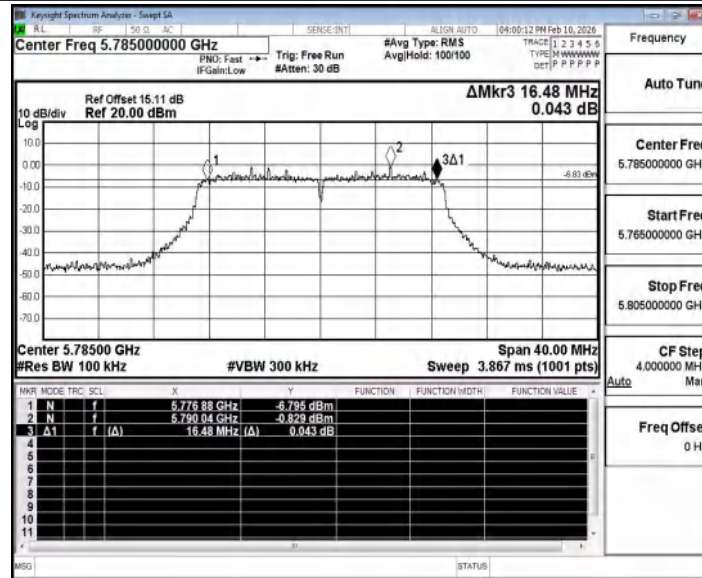




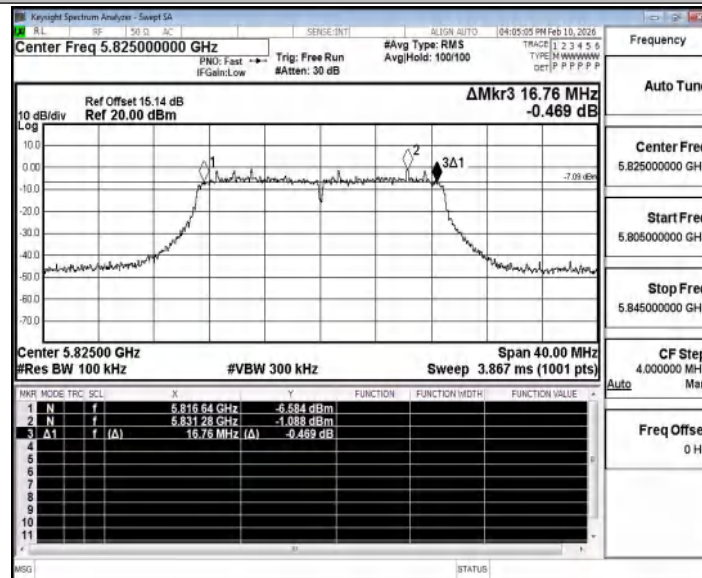
11N20SISO\_Ant1\_5745



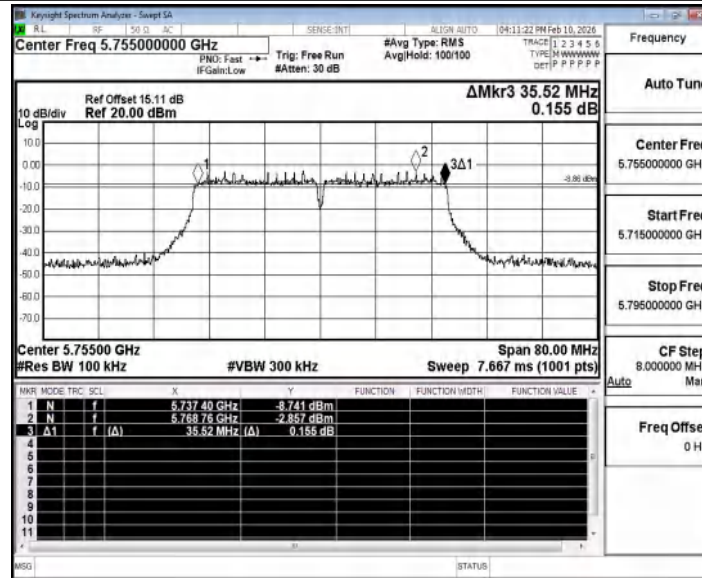
11N20SISO\_Ant1\_5785



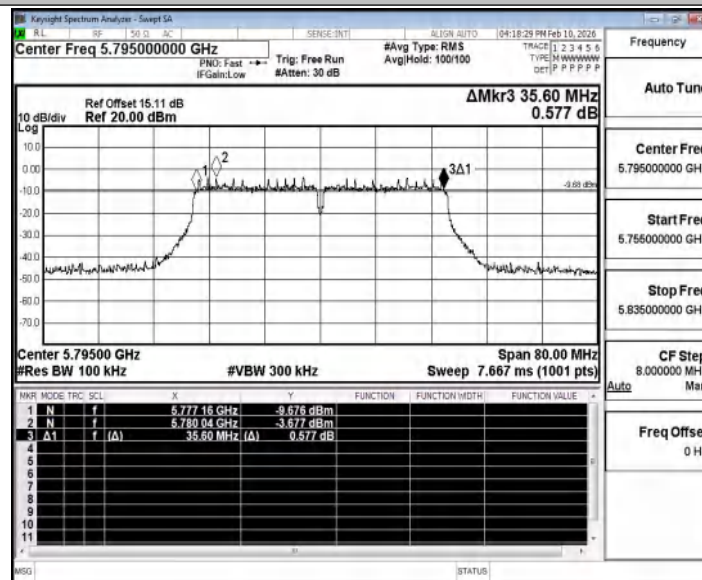
11N20SISO\_Ant1\_5825



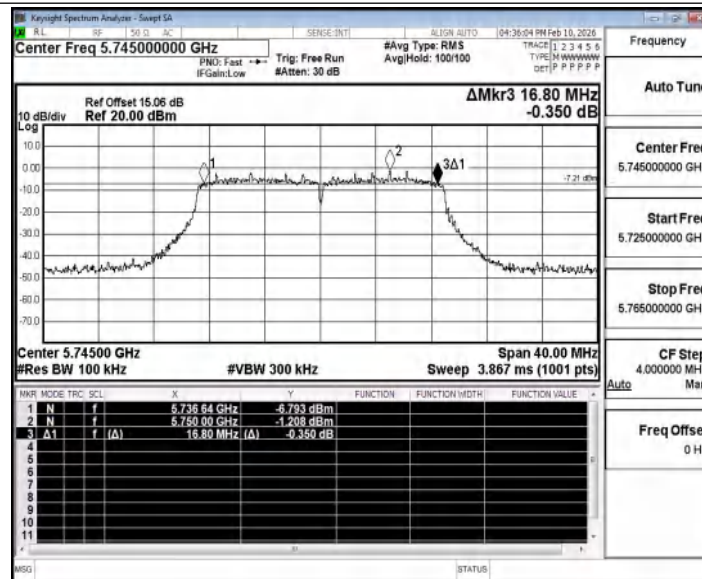
11N40SISO\_Ant1\_5755



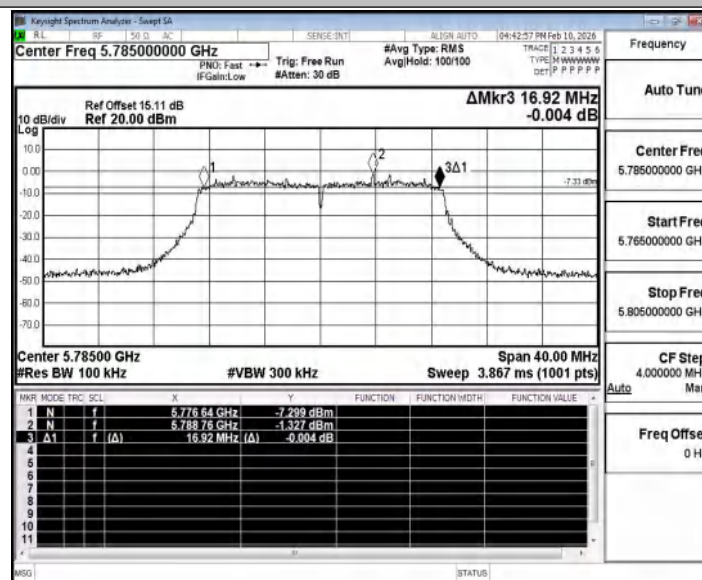
11N40SISO\_Ant1\_5795



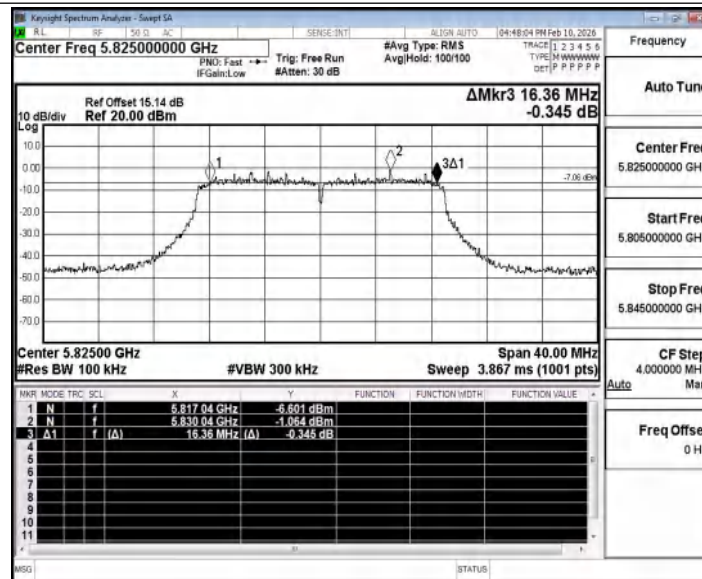
11AC20SISO\_Ant1\_5745



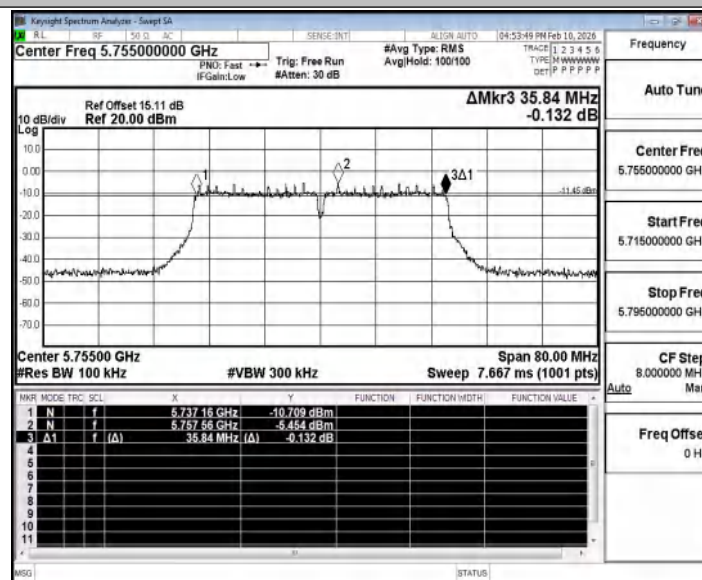
11AC20SISO\_Ant1\_5785



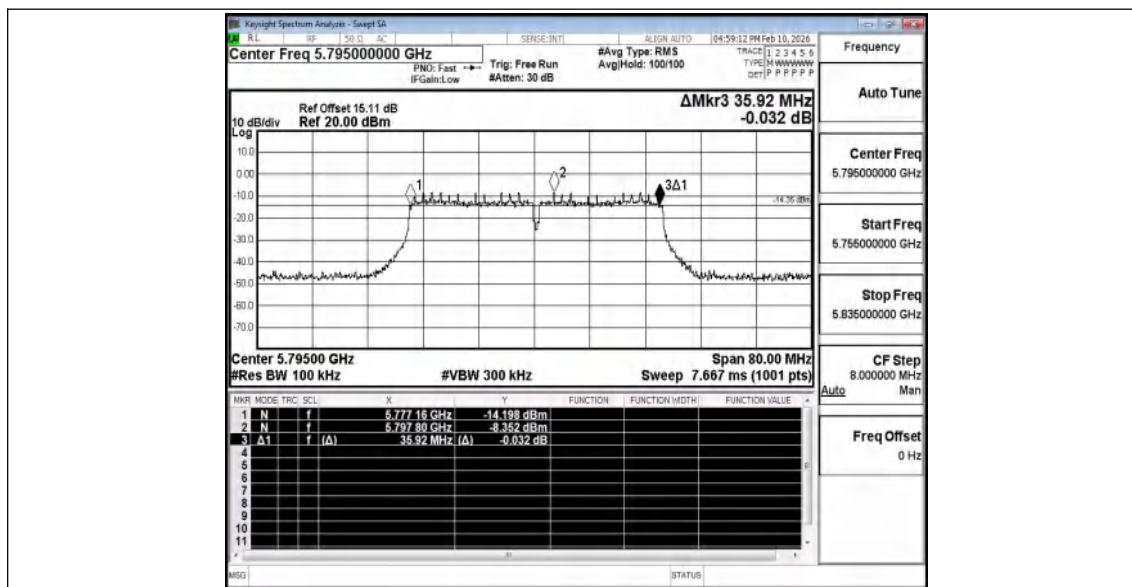
11AC20SISO\_Ant1\_5825



11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant1\_5795



## C.2 Maximum conducted output power

### Test Result Channel Power

| Test Mode  | Antenna | Freq(MHz) | TPC Mode | Measured Power [dBm] | DC Factor [dB] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------|----------|----------------------|----------------|--------------|-------------|---------|
| 11A        | Ant1    | 5745      | NA       | 11.72                | 0.16           | 11.88        | ≤30.00      | PASS    |
|            |         | 5785      | NA       | 11.37                | 0.16           | 11.53        | ≤30.00      | PASS    |
|            |         | 5825      | NA       | 11.18                | 0.16           | 11.34        | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5745      | NA       | 11.94                | 0.20           | 12.14        | ≤30.00      | PASS    |
|            |         | 5785      | NA       | 11.45                | 0.17           | 11.62        | ≤30.00      | PASS    |
|            |         | 5825      | NA       | 11.20                | 0.20           | 11.40        | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 5755      | NA       | 12.08                | 0.40           | 12.48        | ≤30.00      | PASS    |
|            |         | 5795      | NA       | 11.56                | 0.40           | 11.96        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5745      | NA       | 11.56                | 0.17           | 11.73        | ≤30.00      | PASS    |
|            |         | 5785      | NA       | 11.55                | 0.20           | 11.75        | ≤30.00      | PASS    |
|            |         | 5825      | NA       | 11.17                | 0.20           | 11.37        | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5755      | NA       | 11.40                | 0.33           | 11.73        | ≤30.00      | PASS    |
|            |         | 5795      | NA       | 11.05                | 0.33           | 11.38        | ≤30.00      | PASS    |

### C.3 Maximum power spectral density

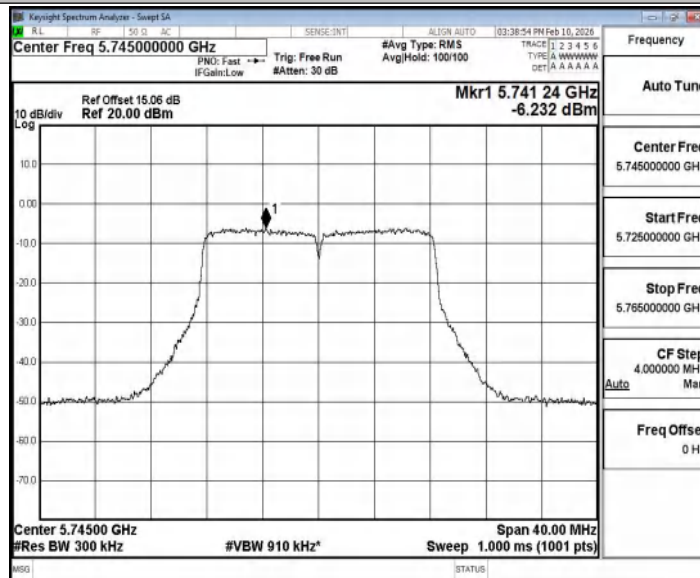
#### Test Result

| TestMode   | Antenna | Freq<br>(MHz) | Raw Data<br>[dBm/MHz] | DC<br>Factor | RBW<br>Factor | Result<br>[dBm/MHz] | Limit<br>[dBm/MHz] | Verdict |
|------------|---------|---------------|-----------------------|--------------|---------------|---------------------|--------------------|---------|
| 11A        | Ant1    | 5745          | -6.23                 | 0.16         | 2.22          | -3.85               | ≤30.00             | PASS    |
|            |         | 5785          | -6.28                 | 0.16         | 2.22          | -3.90               | ≤30.00             | PASS    |
|            |         | 5825          | -5.81                 | 0.16         | 2.22          | -3.43               | ≤30.00             | PASS    |
| 11N20SISO  | Ant1    | 5745          | -6.12                 | 0.20         | 2.22          | -3.70               | ≤30.00             | PASS    |
|            |         | 5785          | -6.37                 | 0.17         | 2.22          | -3.98               | ≤30.00             | PASS    |
|            |         | 5825          | -6.21                 | 0.20         | 2.22          | -3.79               | ≤30.00             | PASS    |
| 11N40SISO  | Ant1    | 5755          | -8.95                 | 0.40         | 2.22          | -6.33               | ≤30.00             | PASS    |
|            |         | 5795          | -9.23                 | 0.40         | 2.22          | -6.61               | ≤30.00             | PASS    |
| 11AC20SISO | Ant1    | 5745          | -6.42                 | 0.17         | 2.22          | -4.03               | ≤30.00             | PASS    |
|            |         | 5785          | -6.44                 | 0.20         | 2.22          | -4.02               | ≤30.00             | PASS    |
|            |         | 5825          | -6.31                 | 0.20         | 2.22          | -3.89               | ≤30.00             | PASS    |
| 11AC40SISO | Ant1    | 5755          | -12.69                | 0.33         | 2.22          | -10.14              | ≤30.00             | PASS    |
|            |         | 5795          | -13.67                | 0.33         | 2.22          | -11.12              | ≤30.00             | PASS    |

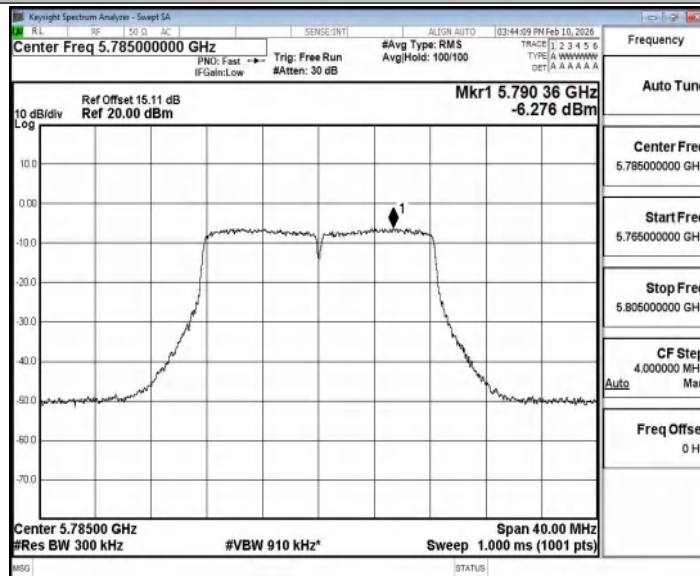
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

## Test Graphs

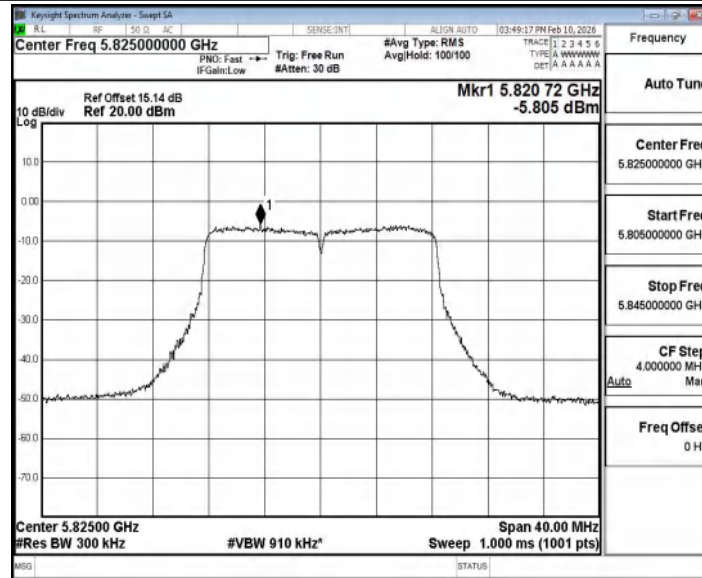
11A\_Ant1\_5745



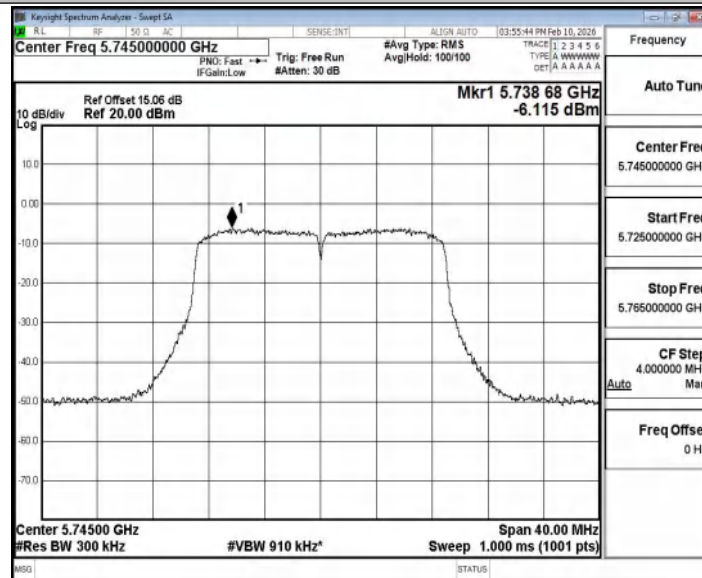
11A\_Ant1\_5785



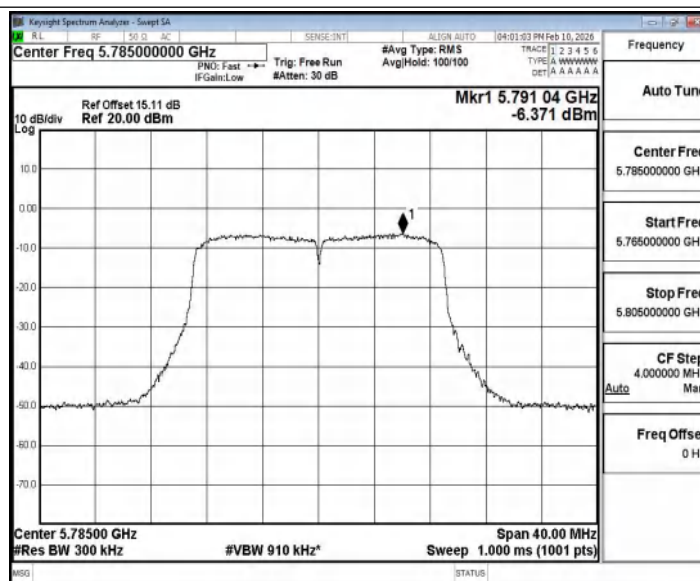
11A\_Ant1\_5825



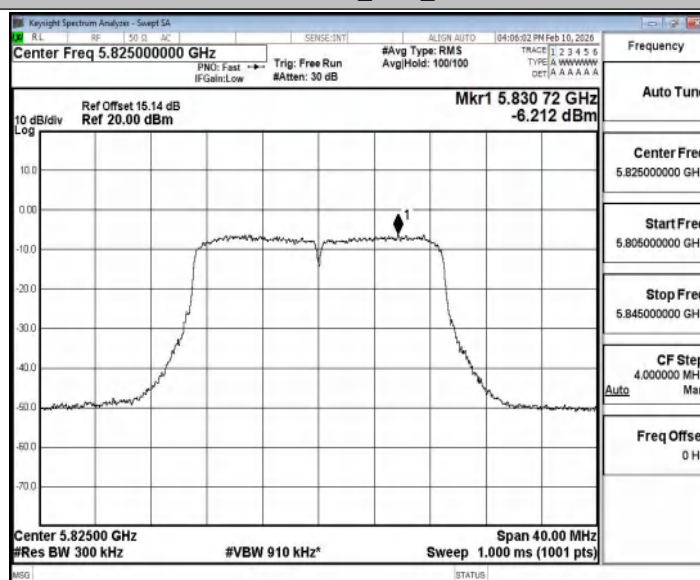
11N20SISO\_Ant1\_5745



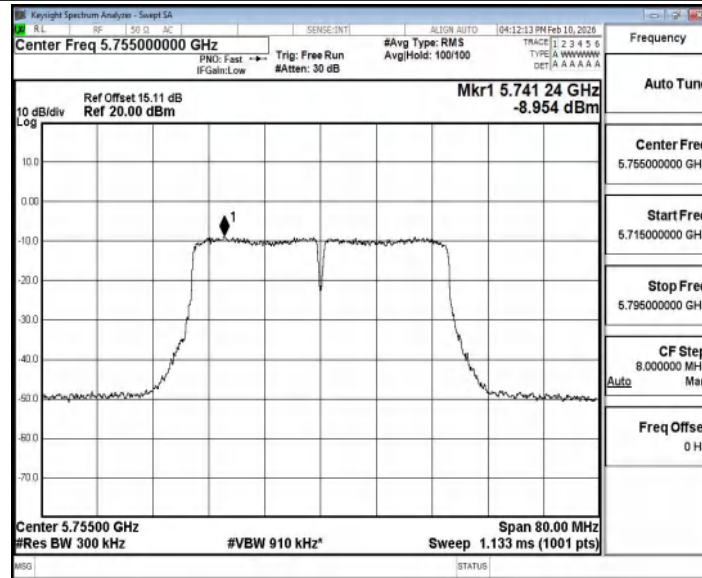
11N20SISO\_Ant1\_5785



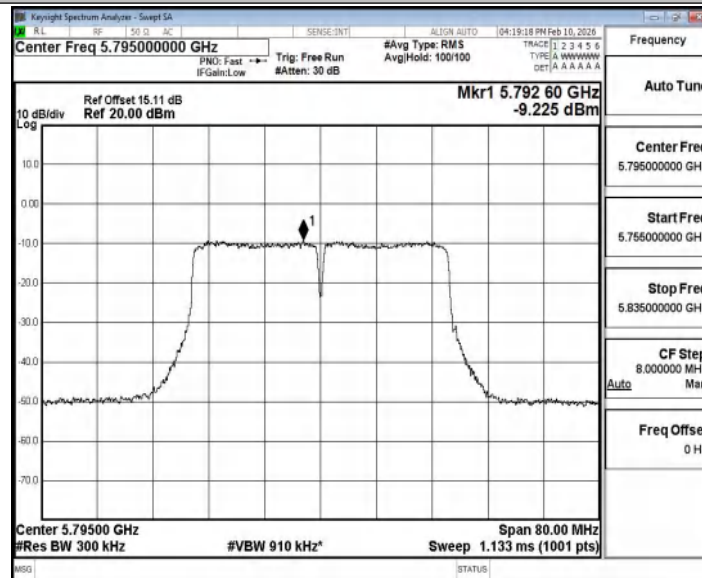
11N20SISO\_Ant1\_5825



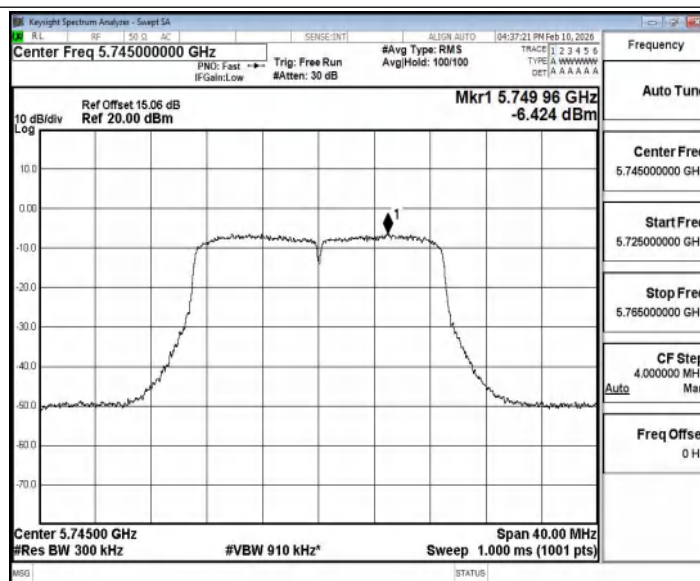
11N40SISO\_Ant1\_5755



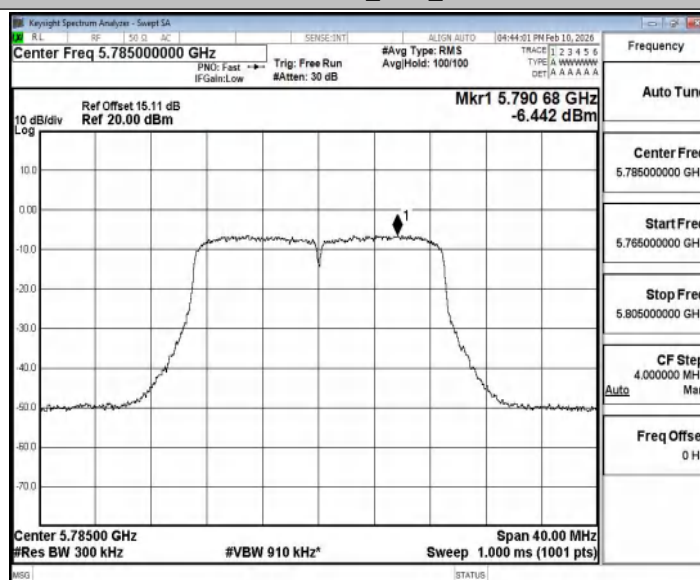
11N40SISO\_Ant1\_5795



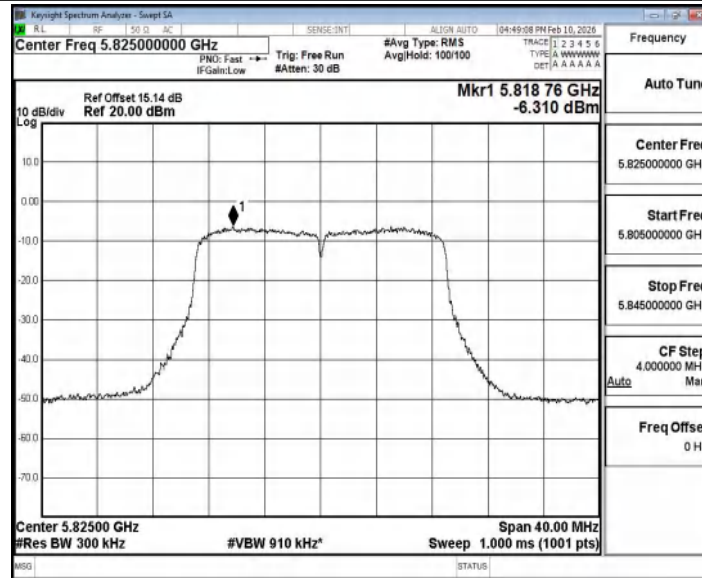
11AC20SISO\_Ant1\_5745



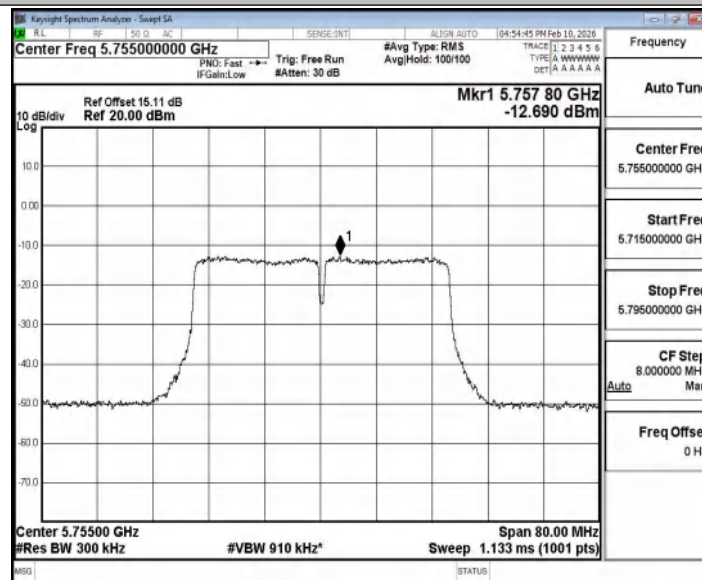
11AC20SISO\_Ant1\_5785



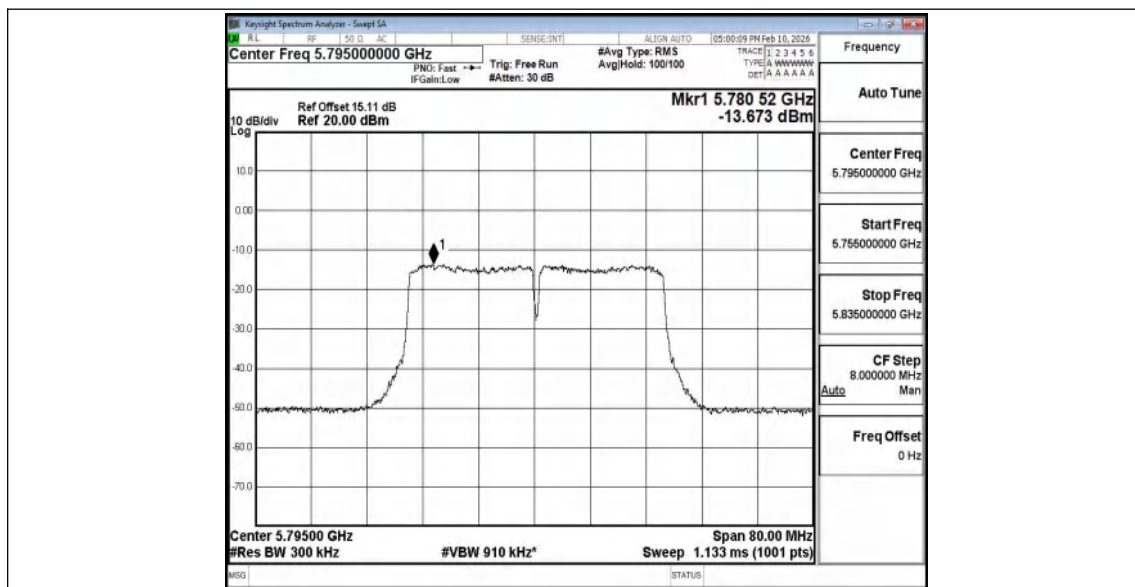
11AC20SISO\_Ant1\_5825



11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant1\_5795



## C.4 Emissions in Restricted Bands

### Test Result

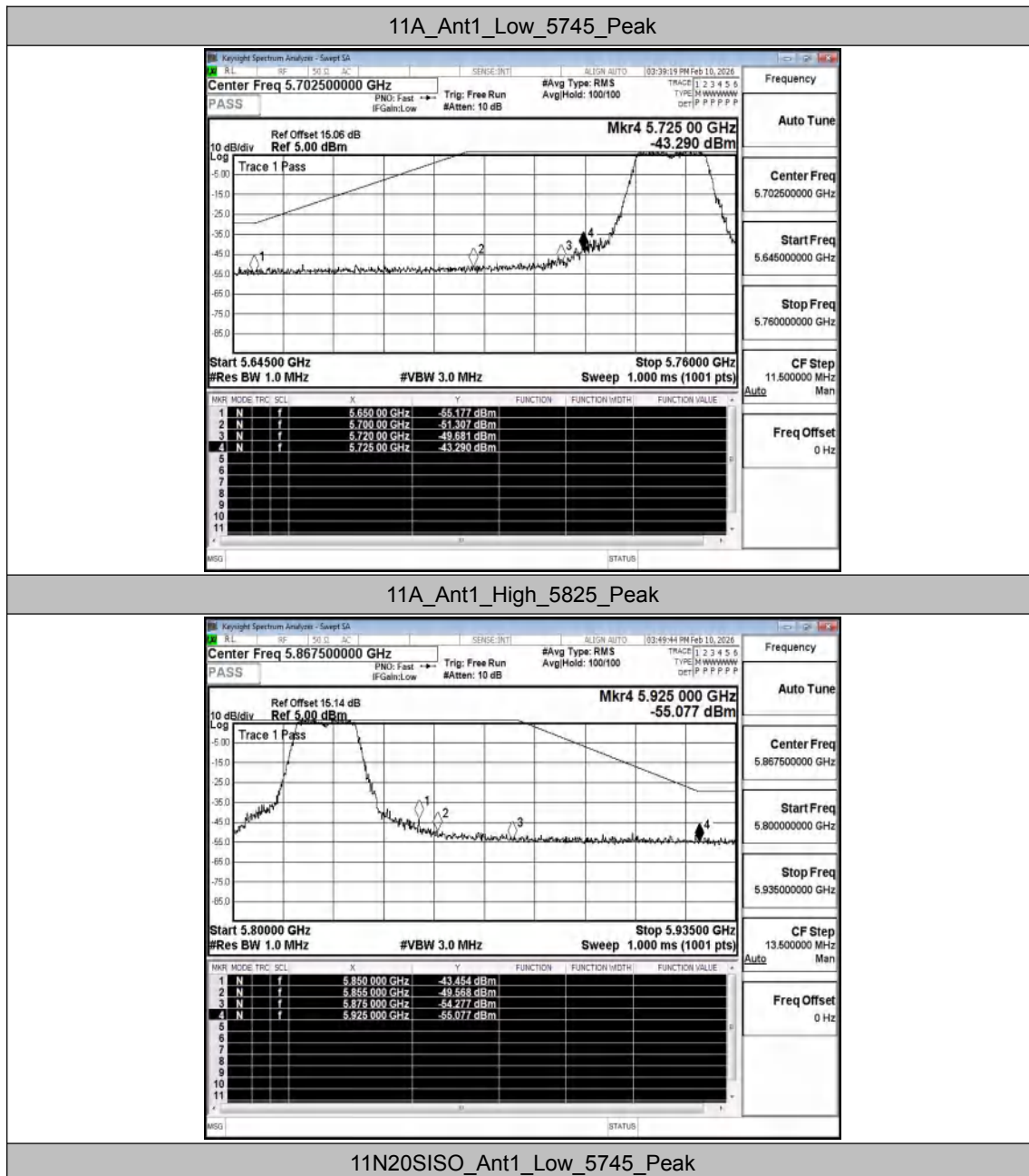
| TestMode   | Antenna | ChName | Freq (MHz) | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Gain [dBi] | DC Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|------------|---------|--------|------------|----------|------------|--------------|-------------|------------|----------------|-----------------|----------------|---------|
| 11A        | Ant1    | Low    | 5745       | Peak     | 5650.000   | -55.177      | ≤-29.60     | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5700.000   | -51.31       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5720.000   | -49.68       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5725.000   | -43.29       | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         | High   | 5825       | Peak     | 5850.000   | -43.454      | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5855.000   | -49.57       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5875.000   | -54.28       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5925.000   | -55.08       | ≤-27.00     | 2.00       | 0.00           | ---             | ---            | PASS    |
| 11N20SISO  | Ant1    | Low    | 5745       | Peak     | 5650.000   | -53.223      | ≤-29.60     | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5700.000   | -51.82       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5720.000   | -47.24       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5725.000   | -40.59       | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         | High   | 5825       | Peak     | 5850.000   | -45.153      | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5855.000   | -51.74       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5875.000   | -54.14       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5925.000   | -53.03       | ≤-27.00     | 2.00       | 0.00           | ---             | ---            | PASS    |
| 11N40SISO  | Ant1    | Low    | 5755       | Peak     | 5650.000   | -53.006      | ≤-29.60     | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5700.000   | -51.73       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5720.000   | -40.39       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5725.000   | -41.54       | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         | High   | 5795       | Peak     | 5850.000   | -53.149      | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5855.000   | -52.69       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5875.000   | -52.6        | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5925.000   | -56.11       | ≤-27.00     | 2.00       | 0.00           | ---             | ---            | PASS    |
| 11AC20SISO | Ant1    | Low    | 5745       | Peak     | 5650.000   | -54.49       | ≤-29.60     | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5700.000   | -52.23       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5720.000   | -48.78       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5725.000   | -42.69       | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         | High   | 5825       | Peak     | 5850.000   | -48.764      | ≤24.40      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5855.000   | -51.14       | ≤13.00      | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5875.000   | -54.37       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5925.000   | -54.41       | ≤-27.00     | 2.00       | 0.00           | ---             | ---            | PASS    |
| 11AC40SISO | Ant1    | Low    | 5755       | Peak     | 5650.000   | -55.1        | ≤-29.60     | 2.00       | 0.00           | ---             | ---            | PASS    |
|            |         |        |            | Peak     | 5700.000   | -53.81       | ≤7.40       | 2.00       | 0.00           | ---             | ---            | PASS    |

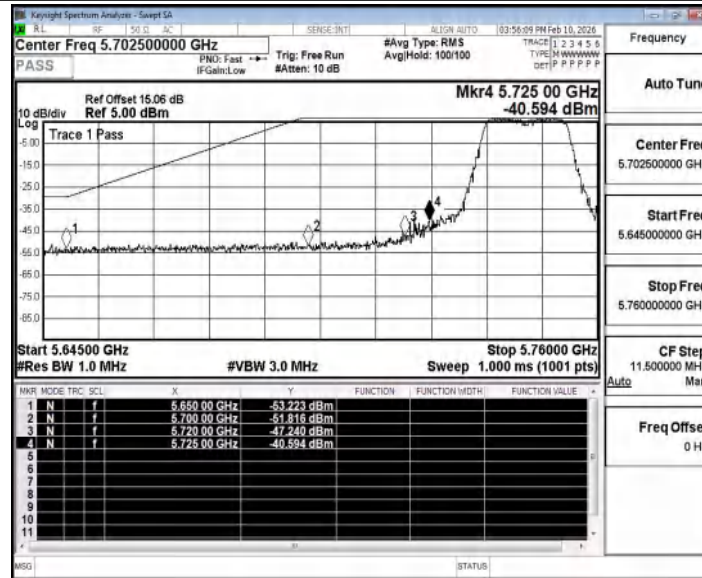
|  |  |      |      |      |          |         |               |      |      |     |     |      |
|--|--|------|------|------|----------|---------|---------------|------|------|-----|-----|------|
|  |  |      |      | Peak | 5720.000 | -46.66  | $\leq 13.00$  | 2.00 | 0.00 | --- | --- | PASS |
|  |  |      |      | Peak | 5725.000 | -47.09  | $\leq 24.40$  | 2.00 | 0.00 | --- | --- | PASS |
|  |  | High | 5795 | Peak | 5850.000 | -55.674 | $\leq 24.40$  | 2.00 | 0.00 | --- | --- | PASS |
|  |  |      |      | Peak | 5855.000 | -55.08  | $\leq 13.00$  | 2.00 | 0.00 | --- | --- | PASS |
|  |  |      |      | Peak | 5875.000 | -55.57  | $\leq 7.40$   | 2.00 | 0.00 | --- | --- | PASS |
|  |  |      |      | Peak | 5925.000 | -56.1   | $\leq -27.00$ | 2.00 | 0.00 | --- | --- | PASS |
|  |  |      |      |      |          |         |               |      |      |     |     |      |
|  |  |      |      |      |          |         |               |      |      |     |     |      |

## Note:

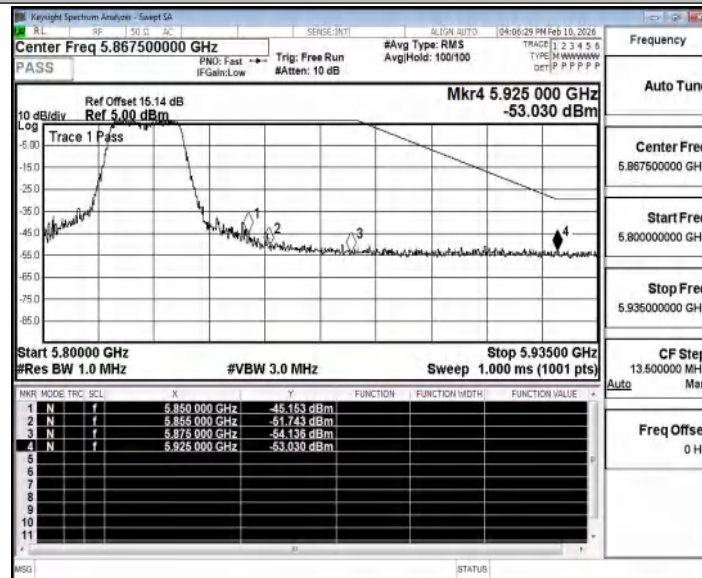
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

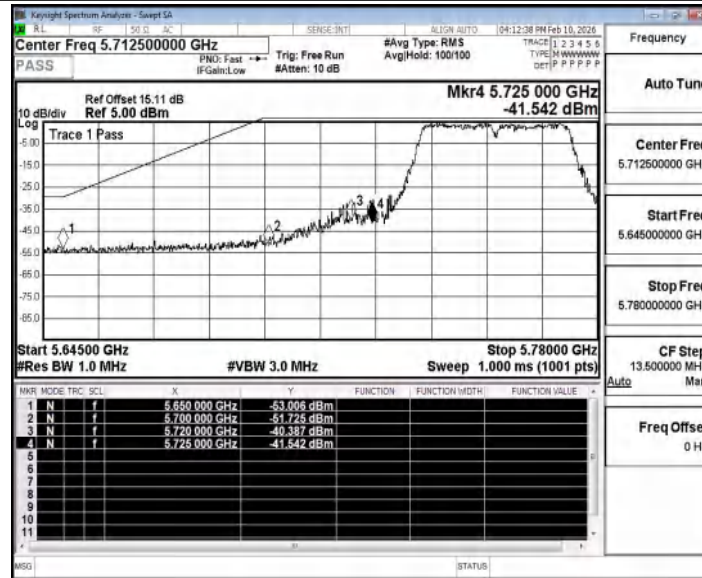




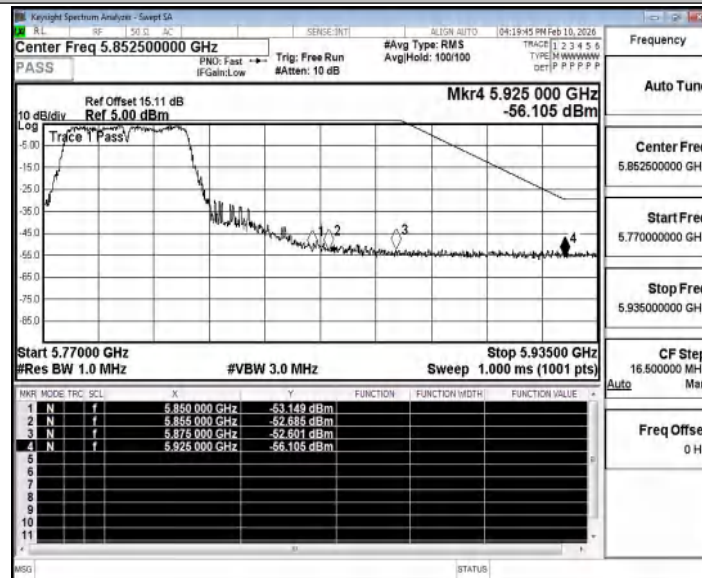
11N20SISO\_Ant1\_High\_5825\_Peak



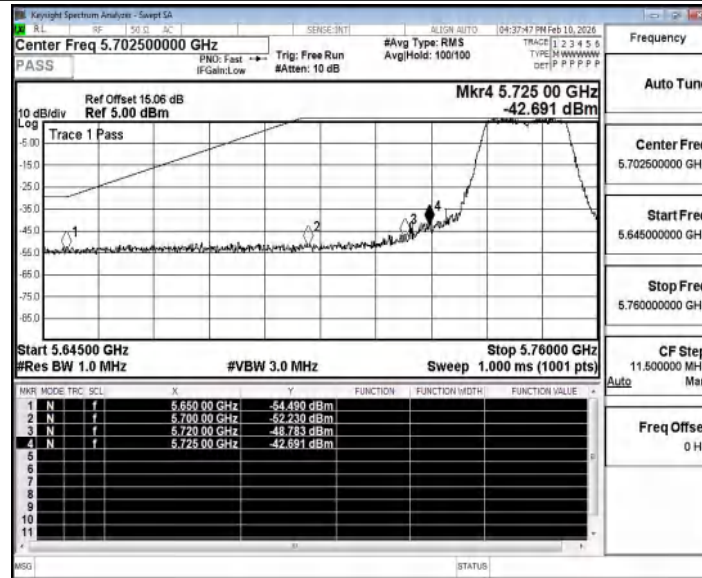
11N40SISO\_Ant1\_Low\_5755\_Peak



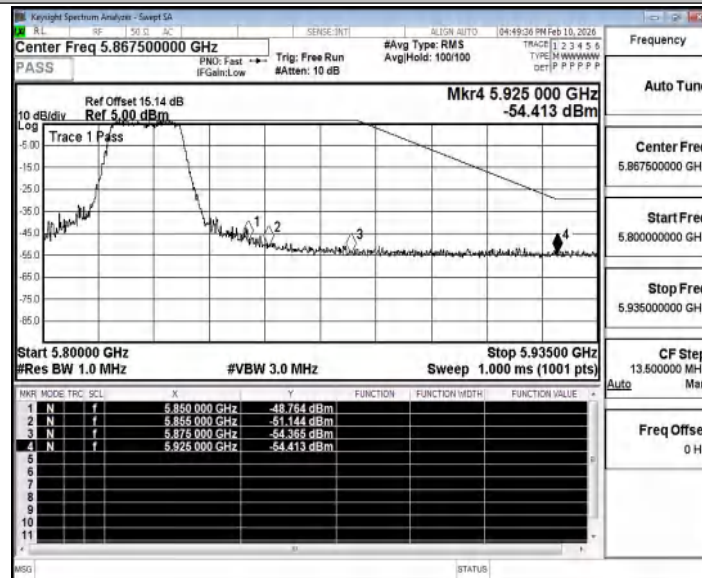
11N40SISO\_Ant1\_High\_5795\_Peak



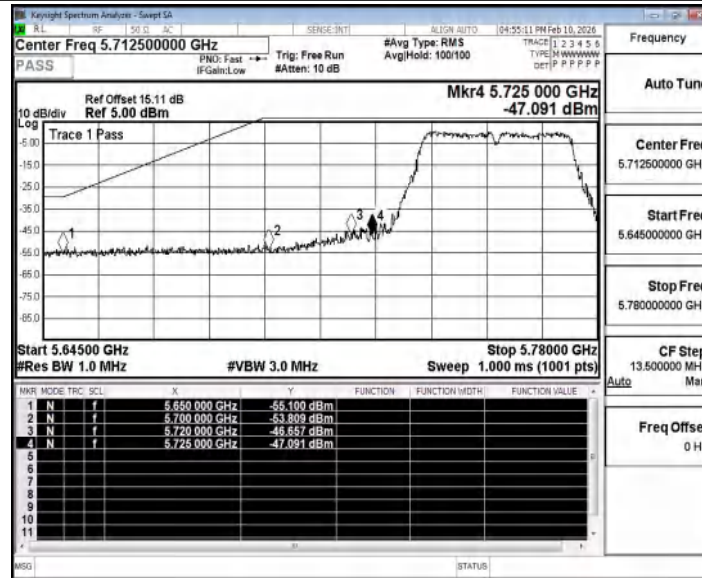
11AC20SISO\_Ant1\_Low\_5745\_Peak



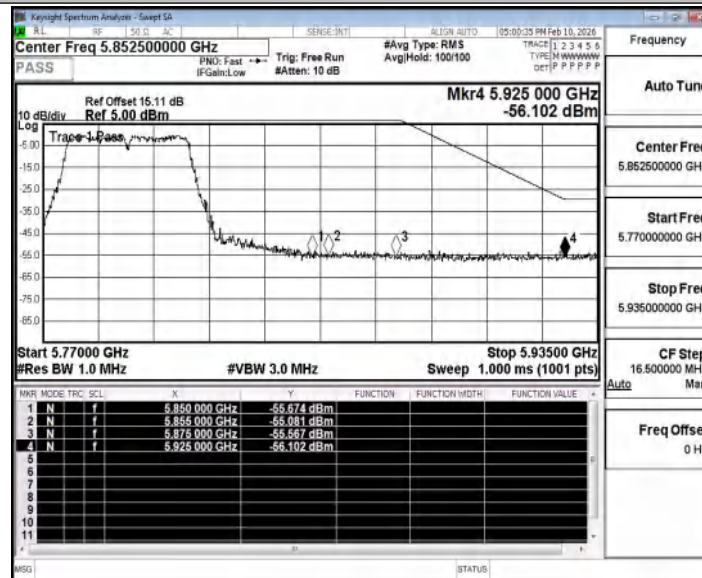
11AC20SISO\_Ant1\_High\_5825\_Peak



11AC40SISO\_Ant1\_Low\_5755\_Peak



11AC40SISO\_Ant1\_High\_5795\_Peak



## C.5 Frequency Stability

### Test Result

| Voltage        |         |            |               |                  |                |                 |             |         |
|----------------|---------|------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode       | Antenna | Freq(M Hz) | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A            | Ant1    | 5745       | NV            | NT               | 20000.00       | 3.481288        | 20          | PASS    |
|                |         |            | LV            | NT               | 20000.00       | 3.481288        | 20          | PASS    |
|                |         |            | HV            | NT               | 20000.00       | 3.481288        | 20          | PASS    |
|                |         | 5785       | NV            | NT               | 20000.00       | 3.457217        | 20          | PASS    |
|                |         |            | LV            | NT               | 20000.00       | 3.457217        | 20          | PASS    |
|                |         |            | HV            | NT               | 20000.00       | 3.457217        | 20          | PASS    |
|                |         | 5825       | NV            | NT               | 20000.00       | 3.433476        | 20          | PASS    |
|                |         |            | LV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
|                |         |            | HV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11N20SI<br>SO  | Ant1    | 5745       | NV            | NT               | 40000.00       | 6.962576        | 20          | PASS    |
|                |         |            | LV            | NT               | 20000.00       | 3.481288        | 20          | PASS    |
|                |         |            | HV            | NT               | 40000.00       | 6.962576        | 20          | PASS    |
|                |         | 5785       | NV            | NT               | 40000.00       | 6.914434        | 20          | PASS    |
|                |         |            | LV            | NT               | 40000.00       | 6.914434        | 20          | PASS    |
|                |         |            | HV            | NT               | 40000.00       | 6.914434        | 20          | PASS    |
|                |         | 5825       | NV            | NT               | 20000.00       | 3.433476        | 20          | PASS    |
|                |         |            | LV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
|                |         |            | HV            | NT               | 20000.00       | 3.433476        | 20          | PASS    |
| 11N40SI<br>SO  | Ant1    | 5755       | NV            | NT               | 40000.00       | 6.950478        | 20          | PASS    |
|                |         |            | LV            | NT               | 40000.00       | 6.950478        | 20          | PASS    |
|                |         |            | HV            | NT               | 40000.00       | 6.950478        | 20          | PASS    |
|                |         | 5795       | NV            | NT               | 40000.00       | 6.902502        | 20          | PASS    |
|                |         |            | LV            | NT               | 80000.00       | 13.805004       | 20          | PASS    |
|                |         |            | HV            | NT               | 80000.00       | 13.805004       | 20          | PASS    |
| 11AC20S<br>ISO | Ant1    | 5745       | NV            | NT               | 40000.00       | 6.962576        | 20          | PASS    |
|                |         |            | LV            | NT               | 40000.00       | 6.962576        | 20          | PASS    |
|                |         |            | HV            | NT               | 20000.00       | 3.481288        | 20          | PASS    |
|                |         | 5785       | NV            | NT               | 40000.00       | 6.914434        | 20          | PASS    |
|                |         |            | LV            | NT               | 20000.00       | 3.457217        | 20          | PASS    |
|                |         |            | HV            | NT               | 20000.00       | 3.457217        | 20          | PASS    |
|                |         | 5825       | NV            | NT               | 20000.00       | 3.433476        | 20          | PASS    |
|                |         |            | LV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
|                |         |            | HV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11AC40S        | Ant1    | 5755       | NV            | NT               | 40000.00       | 6.950478        | 20          | PASS    |

|     |  |      |    |    |          |          |    |      |
|-----|--|------|----|----|----------|----------|----|------|
| ISO |  |      | LV | NT | 40000.00 | 6.950478 | 20 | PASS |
|     |  |      | HV | NT | 40000.00 | 6.950478 | 20 | PASS |
|     |  | 5795 | NV | NT | 40000.00 | 6.902502 | 20 | PASS |
|     |  |      | LV | NT | 0.00     | 0.000000 | 20 | PASS |
|     |  |      | HV | NT | 40000.00 | 6.902502 | 20 | PASS |

| Temperature   |         |            |               |                  |                |                 |             |         |
|---------------|---------|------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode      | Antenna | Freq(M Hz) | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A           | Ant1    | 5745       | NV            | -30              | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | -20              | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | -10              | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 0                | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 10               | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 20               | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 30               | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 40               | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 50               | 20000.00       | 3.481288        | 20          | PASS    |
|               |         | 5785       | NV            | -30              | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | -20              | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | -10              | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | 0                | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | 10               | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | 20               | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | 30               | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | 40               | 20000.00       | 3.457217        | 20          | PASS    |
|               |         |            | NV            | 50               | 20000.00       | 3.457217        | 20          | PASS    |
|               |         | 5825       | NV            | -30              | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | -20              | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | -10              | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | 0                | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | 10               | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | 20               | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | 30               | 20000.00       | 3.433476        | 20          | PASS    |
|               |         |            | NV            | 40               | 40000.00       | 6.866953        | 20          | PASS    |
|               |         |            | NV            | 50               | 20000.00       | 3.433476        | 20          | PASS    |
| 11N20SI<br>SO | Ant1    | 5745       | NV            | -30              | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | -20              | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | -10              | 40000.00       | 6.962576        | 20          | PASS    |
|               |         |            | NV            | 0                | 20000.00       | 3.481288        | 20          | PASS    |
|               |         |            | NV            | 10               | 20000.00       | 3.481288        | 20          | PASS    |

|               |      |      |    |     |          |           |    |      |
|---------------|------|------|----|-----|----------|-----------|----|------|
|               |      |      | NV | 20  | 20000.00 | 3.481288  | 20 | PASS |
|               |      |      | NV | 30  | 20000.00 | 3.481288  | 20 | PASS |
|               |      |      | NV | 40  | 40000.00 | 6.962576  | 20 | PASS |
|               |      |      | NV | 50  | 20000.00 | 3.481288  | 20 | PASS |
|               |      | 5785 | NV | -30 | 20000.00 | 3.457217  | 20 | PASS |
|               |      |      | NV | -20 | 20000.00 | 3.457217  | 20 | PASS |
|               |      |      | NV | -10 | 40000.00 | 6.914434  | 20 | PASS |
|               |      |      | NV | 0   | 20000.00 | 3.457217  | 20 | PASS |
|               |      |      | NV | 10  | 20000.00 | 3.457217  | 20 | PASS |
|               |      |      | NV | 20  | 40000.00 | 6.914434  | 20 | PASS |
|               |      |      | NV | 30  | 20000.00 | 3.457217  | 20 | PASS |
|               |      |      | NV | 40  | 20000.00 | 3.457217  | 20 | PASS |
|               |      |      | NV | 50  | 40000.00 | 6.914434  | 20 | PASS |
|               |      | 5825 | NV | -30 | 20000.00 | 3.433476  | 20 | PASS |
|               |      |      | NV | -20 | 20000.00 | 3.433476  | 20 | PASS |
|               |      |      | NV | -10 | 40000.00 | 6.866953  | 20 | PASS |
|               |      |      | NV | 0   | 20000.00 | 3.433476  | 20 | PASS |
|               |      |      | NV | 10  | 40000.00 | 6.866953  | 20 | PASS |
|               |      |      | NV | 20  | 40000.00 | 6.866953  | 20 | PASS |
|               |      |      | NV | 30  | 20000.00 | 3.433476  | 20 | PASS |
|               |      |      | NV | 40  | 40000.00 | 6.866953  | 20 | PASS |
|               |      |      | NV | 50  | 40000.00 | 6.866953  | 20 | PASS |
| 11N40SI<br>SO | Ant1 | 5755 | NV | -30 | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | -20 | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | -10 | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | 0   | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | 10  | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | 20  | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | 30  | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | 40  | 80000.00 | 13.900956 | 20 | PASS |
|               |      | 5795 | NV | 50  | 40000.00 | 6.950478  | 20 | PASS |
|               |      |      | NV | -30 | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | -20 | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | -10 | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | 0   | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | 10  | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | 20  | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | 30  | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | 40  | 40000.00 | 6.902502  | 20 | PASS |
|               |      |      | NV | 50  | 40000.00 | 6.902502  | 20 | PASS |
| 11AC20S       | Ant1 | 5745 | NV | -30 | 20000.00 | 3.481288  | 20 | PASS |

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|                |      |      |    |     |          |          |    |      |
|----------------|------|------|----|-----|----------|----------|----|------|
| ISO            |      |      | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
|                |      |      | NV | -10 | 20000.00 | 3.481288 | 20 | PASS |
|                |      |      | NV | 0   | 20000.00 | 3.481288 | 20 | PASS |
|                |      |      | NV | 10  | 40000.00 | 6.962576 | 20 | PASS |
|                |      |      | NV | 20  | 40000.00 | 6.962576 | 20 | PASS |
|                |      |      | NV | 30  | 40000.00 | 6.962576 | 20 | PASS |
|                |      |      | NV | 40  | 20000.00 | 3.481288 | 20 | PASS |
|                |      |      | NV | 50  | 40000.00 | 6.962576 | 20 | PASS |
|                |      | 5785 | NV | -30 | 20000.00 | 3.457217 | 20 | PASS |
|                |      |      | NV | -20 | 20000.00 | 3.457217 | 20 | PASS |
|                |      |      | NV | -10 | 40000.00 | 6.914434 | 20 | PASS |
|                |      |      | NV | 0   | 40000.00 | 6.914434 | 20 | PASS |
|                |      |      | NV | 10  | 40000.00 | 6.914434 | 20 | PASS |
|                |      |      | NV | 20  | 40000.00 | 6.914434 | 20 | PASS |
|                |      |      | NV | 30  | 40000.00 | 6.914434 | 20 | PASS |
|                |      |      | NV | 40  | 20000.00 | 3.457217 | 20 | PASS |
|                |      |      | NV | 50  | 40000.00 | 6.914434 | 20 | PASS |
|                |      | 5825 | NV | -30 | 20000.00 | 3.433476 | 20 | PASS |
|                |      |      | NV | -20 | 20000.00 | 3.433476 | 20 | PASS |
|                |      |      | NV | -10 | 20000.00 | 3.433476 | 20 | PASS |
|                |      |      | NV | 0   | 20000.00 | 3.433476 | 20 | PASS |
|                |      |      | NV | 10  | 40000.00 | 6.866953 | 20 | PASS |
|                |      |      | NV | 20  | 20000.00 | 3.433476 | 20 | PASS |
|                |      |      | NV | 30  | 20000.00 | 3.433476 | 20 | PASS |
|                |      |      | NV | 40  | 40000.00 | 6.866953 | 20 | PASS |
|                |      |      | NV | 50  | 20000.00 | 3.433476 | 20 | PASS |
| 11AC40S<br>ISO | Ant1 | 5755 | NV | -30 | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | -20 | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | -10 | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | 0   | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | 10  | 0.00     | 0.000000 | 20 | PASS |
|                |      |      | NV | 20  | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | 30  | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | 40  | 40000.00 | 6.950478 | 20 | PASS |
|                |      |      | NV | 50  | 40000.00 | 6.950478 | 20 | PASS |
|                |      | 5795 | NV | -30 | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | -20 | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | -10 | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | 0   | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | 10  | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | 20  | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | 30  | 40000.00 | 6.902502 | 20 | PASS |
|                |      |      | NV | 40  | 40000.00 | 6.902502 | 20 | PASS |

|  |  |  |    |    |          |          |    |      |
|--|--|--|----|----|----------|----------|----|------|
|  |  |  | NV | 30 | 40000.00 | 6.902502 | 20 | PASS |
|  |  |  | NV | 40 | 40000.00 | 6.902502 | 20 | PASS |
|  |  |  | NV | 50 | 40000.00 | 6.902502 | 20 | PASS |

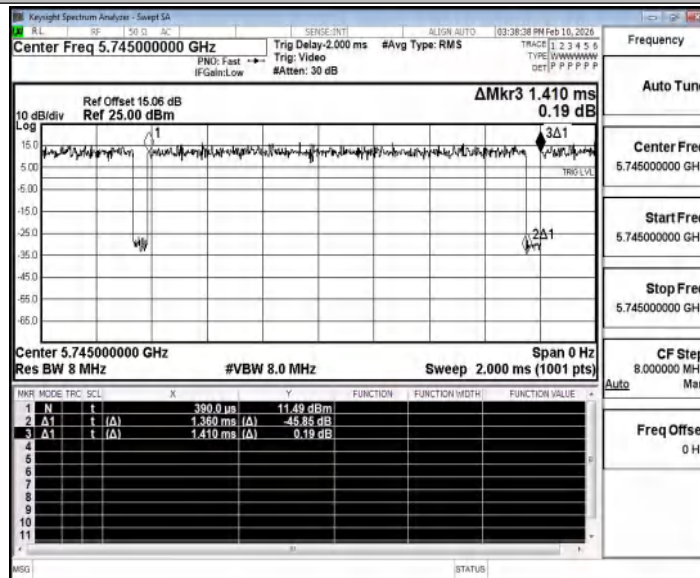
## C.6 Duty Cycle

### Test Result

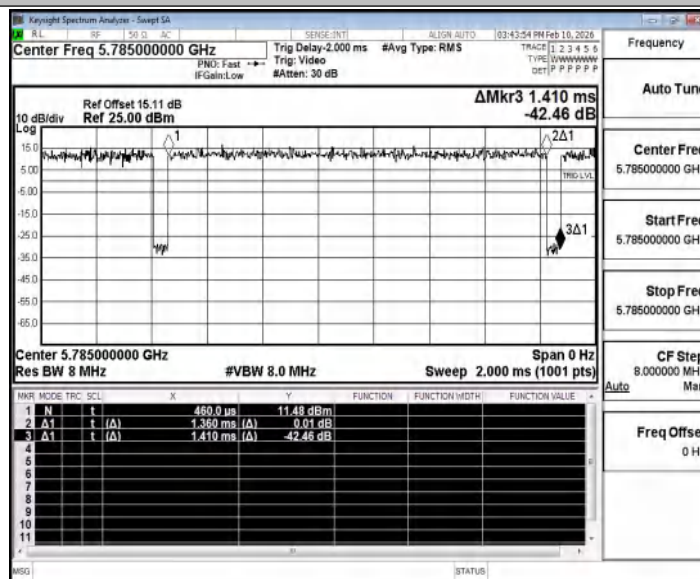
| TestMode   | Antenna | Freq(MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | DC Factor | Limit | Verdict |
|------------|---------|-----------|----------------------------|--------------------------|----------------|-----------|-------|---------|
| 11A        | Ant1    | 5745      | 1.36                       | 1.41                     | 96.45          | 0.16      | ---   | ---     |
|            |         | 5785      | 1.36                       | 1.41                     | 96.45          | 0.16      | ---   | ---     |
|            |         | 5825      | 1.36                       | 1.41                     | 96.45          | 0.16      | ---   | ---     |
| 11N20SISO  | Ant1    | 5745      | 1.26                       | 1.32                     | 95.45          | 0.20      | ---   | ---     |
|            |         | 5785      | 1.27                       | 1.32                     | 96.21          | 0.17      | ---   | ---     |
|            |         | 5825      | 1.27                       | 1.33                     | 95.49          | 0.20      | ---   | ---     |
| 11N40SISO  | Ant1    | 5755      | 0.63                       | 0.69                     | 91.30          | 0.40      | ---   | ---     |
|            |         | 5795      | 0.63                       | 0.69                     | 91.30          | 0.40      | ---   | ---     |
| 11AC20SISO | Ant1    | 5745      | 1.28                       | 1.33                     | 96.24          | 0.17      | ---   | ---     |
|            |         | 5785      | 1.27                       | 1.33                     | 95.49          | 0.20      | ---   | ---     |
|            |         | 5825      | 1.27                       | 1.33                     | 95.49          | 0.20      | ---   | ---     |
| 11AC40SISO | Ant1    | 5755      | 0.64                       | 0.69                     | 92.75          | 0.33      | ---   | ---     |
|            |         | 5795      | 0.64                       | 0.69                     | 92.75          | 0.33      | ---   | ---     |

## Test Graphs

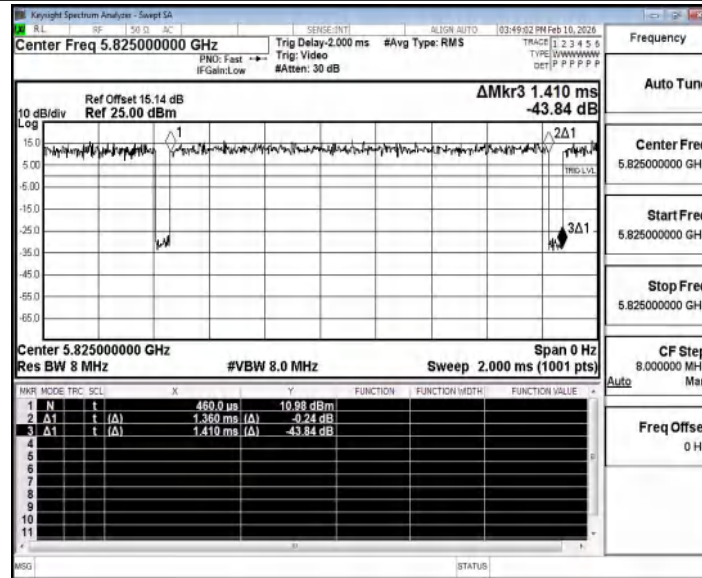
11A\_Ant1\_5745



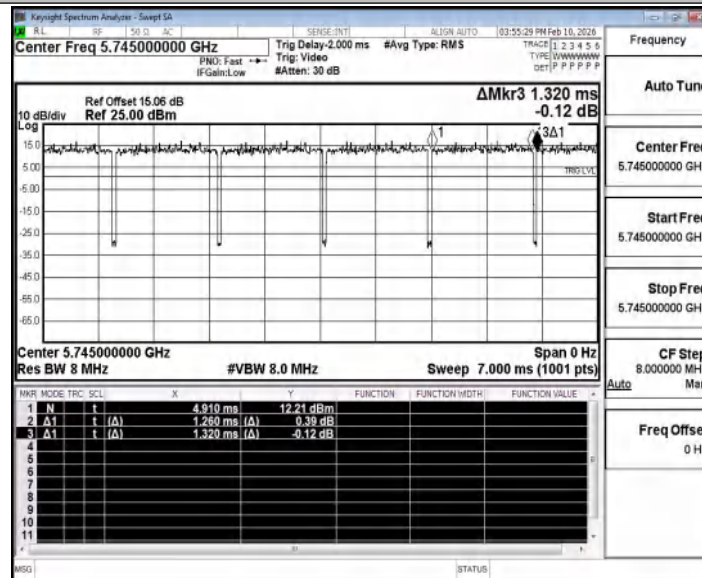
11A\_Ant1\_5785



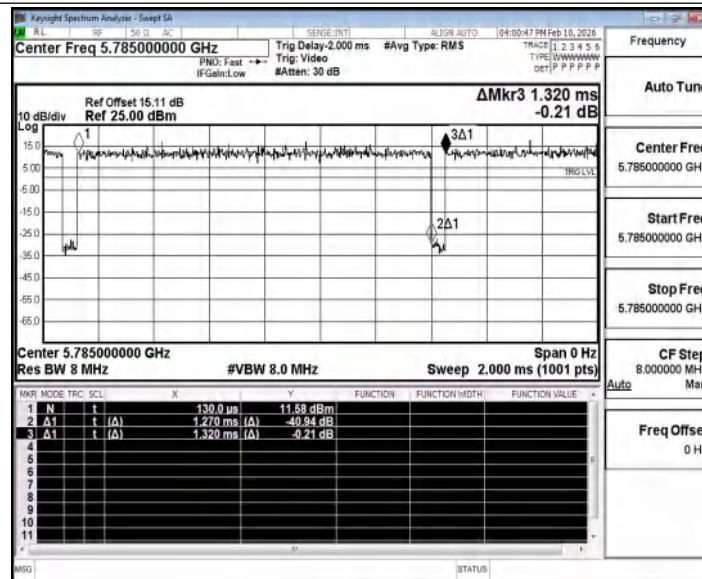
11A\_Ant1\_5825



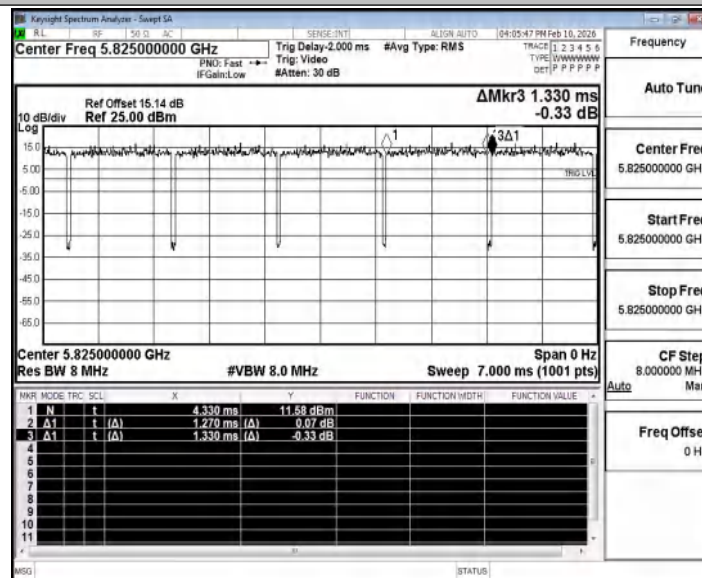
11N20SISO\_Ant1\_5745



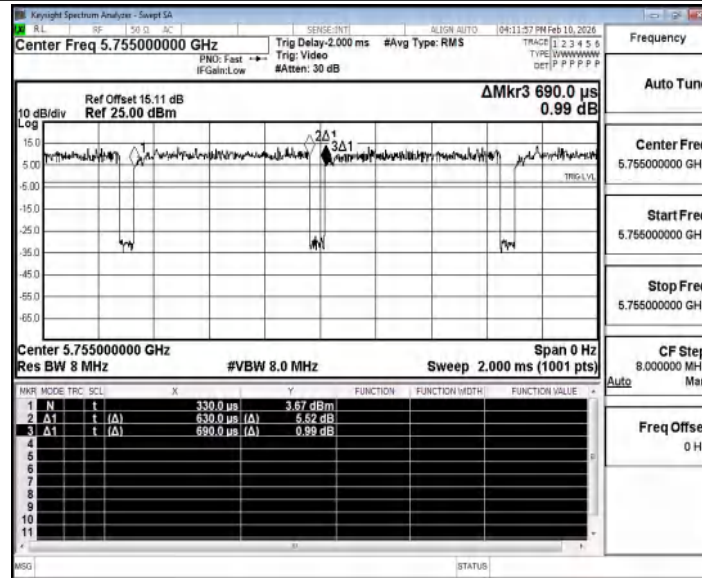
11N20SISO\_Ant1\_5785



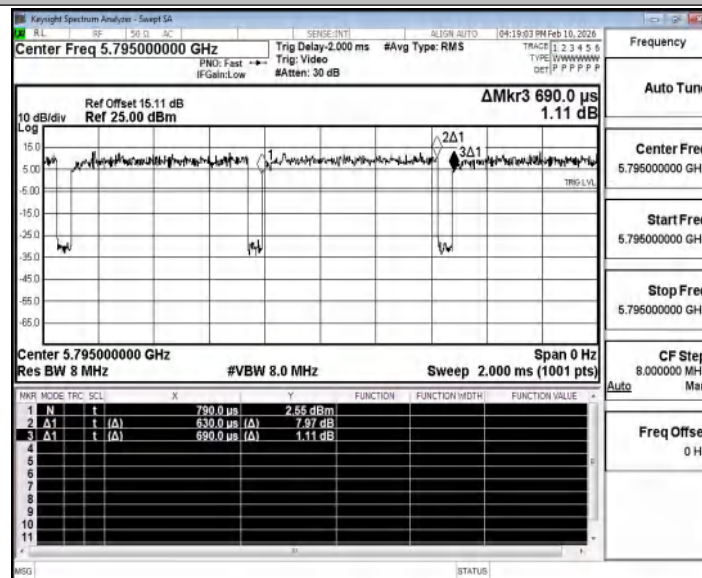
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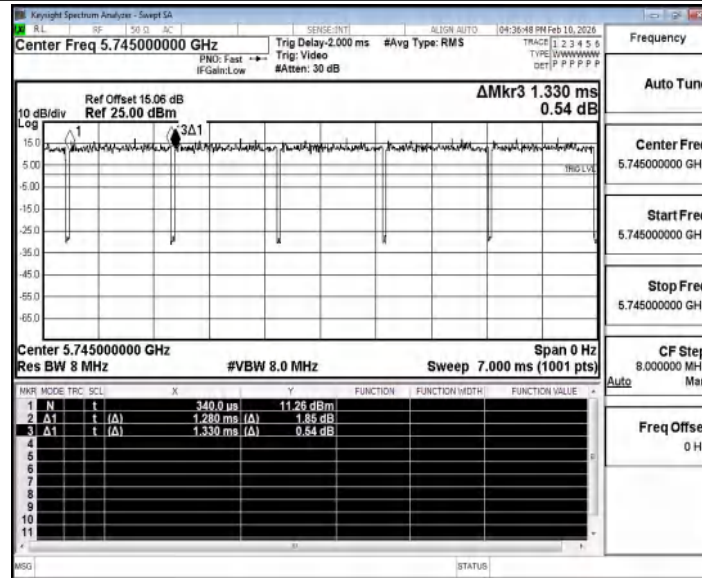
11N40SISO\_Ant1\_5755



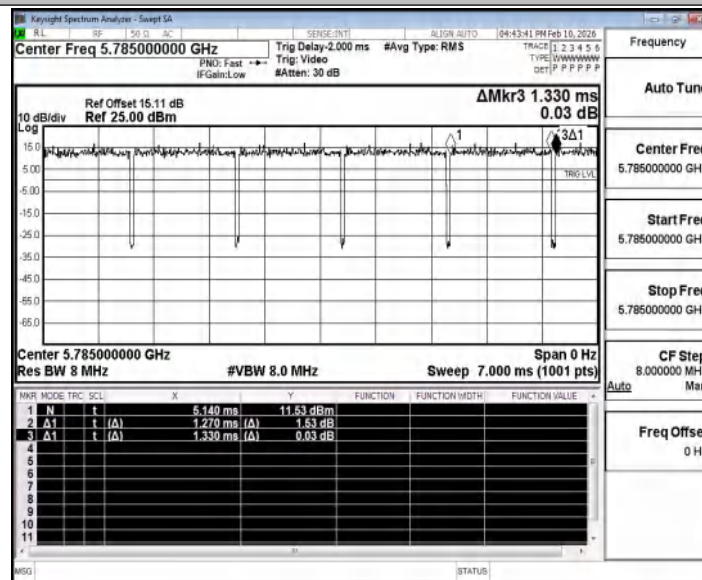
11N40SISO\_Ant1\_5795



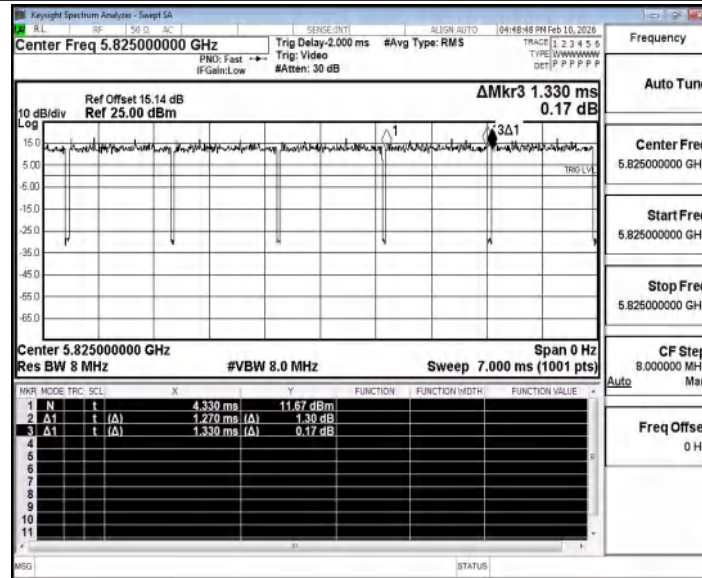
11AC20SISO\_Ant1\_5745



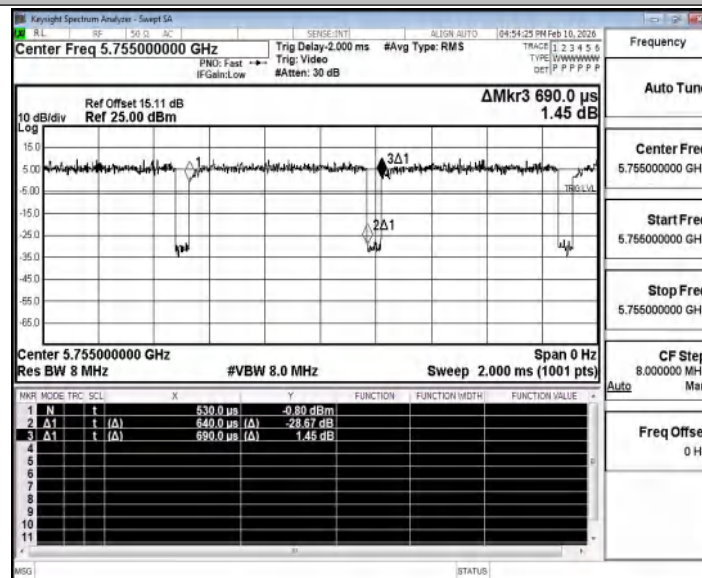
11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant1\_5825



11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant1\_5795

