



## Appendix D

### RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Mini PC

Test Model: CK10

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.3° C   |
| Relative Humidity: | 53.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Kay Hu    |
| Supervised by:     | Li Huan   |

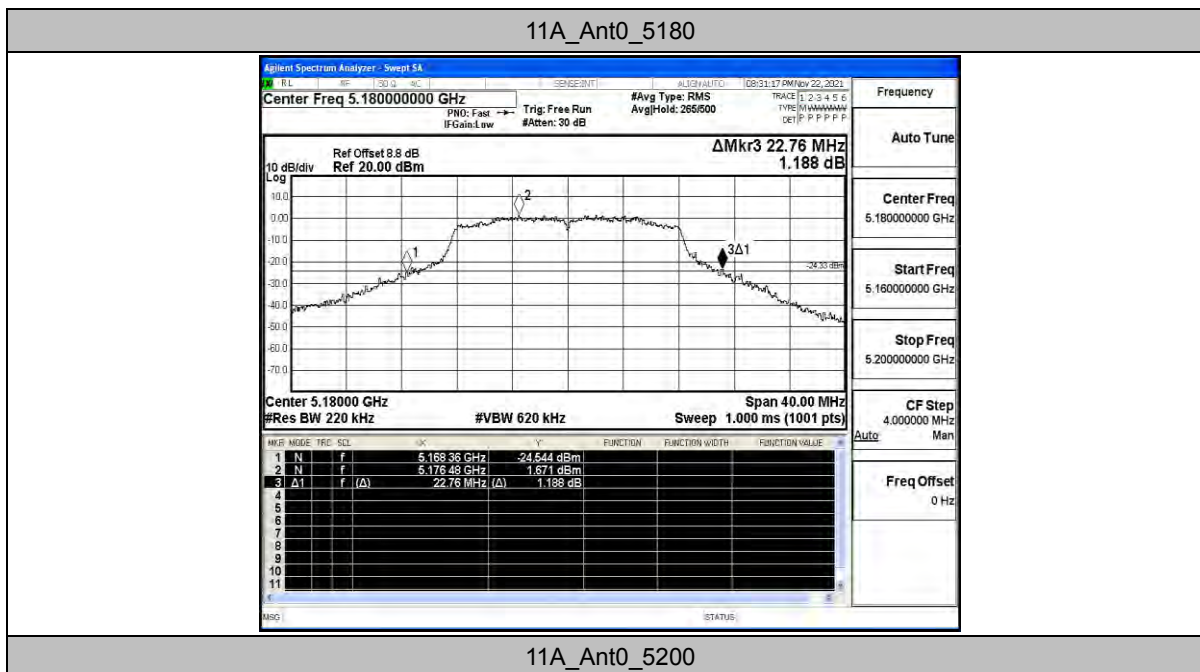


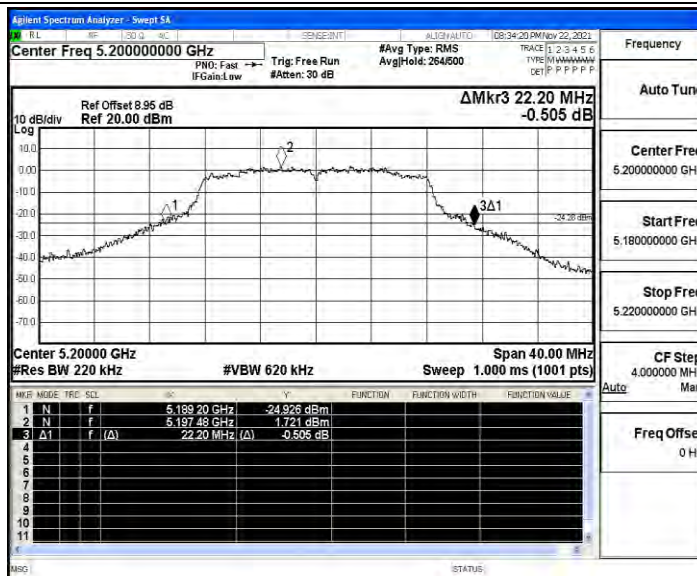
## D.1 26dB Emission Bandwidth

### Test Result

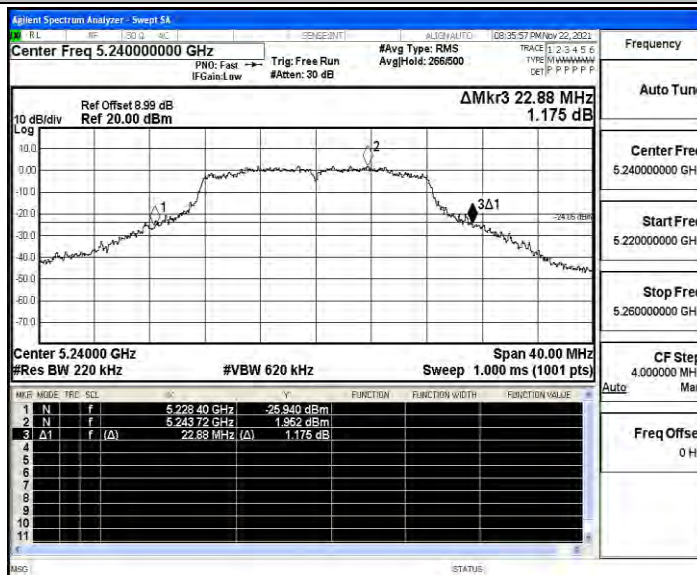
| TestMode   | Antenna | Channel | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|---------|----------------|----------|----------|------------|---------|
| 11A        | Ant0    | 5180    | 22.760         | 5168.360 | 5191.120 | ---        | PASS    |
|            |         | 5200    | 22.200         | 5189.200 | 5211.400 | ---        | PASS    |
|            |         | 5240    | 22.880         | 5228.400 | 5251.280 | ---        | PASS    |
| 11N20SISO  | Ant0    | 5180    | 23.960         | 5167.280 | 5191.240 | ---        | PASS    |
|            |         | 5200    | 23.160         | 5188.400 | 5211.560 | ---        | PASS    |
|            |         | 5240    | 23.240         | 5228.640 | 5251.880 | ---        | PASS    |
| 11N40SISO  | Ant0    | 5190    | 42.560         | 5168.560 | 5211.120 | ---        | PASS    |
|            |         | 5230    | 42.960         | 5208.560 | 5251.520 | ---        | PASS    |
| 11AC20SISO | Ant0    | 5180    | 23.520         | 5168.480 | 5192.000 | ---        | PASS    |
|            |         | 5200    | 23.080         | 5188.480 | 5211.560 | ---        | PASS    |
|            |         | 5240    | 22.960         | 5228.200 | 5251.160 | ---        | PASS    |
| 11AC40SISO | Ant0    | 5190    | 42.880         | 5168.560 | 5211.440 | ---        | PASS    |
|            |         | 5230    | 42.960         | 5208.240 | 5251.200 | ---        | PASS    |
| 11AC80SISO | Ant0    | 5210    | 81.120         | 5169.520 | 5250.640 | ---        | PASS    |

### Test Graphs

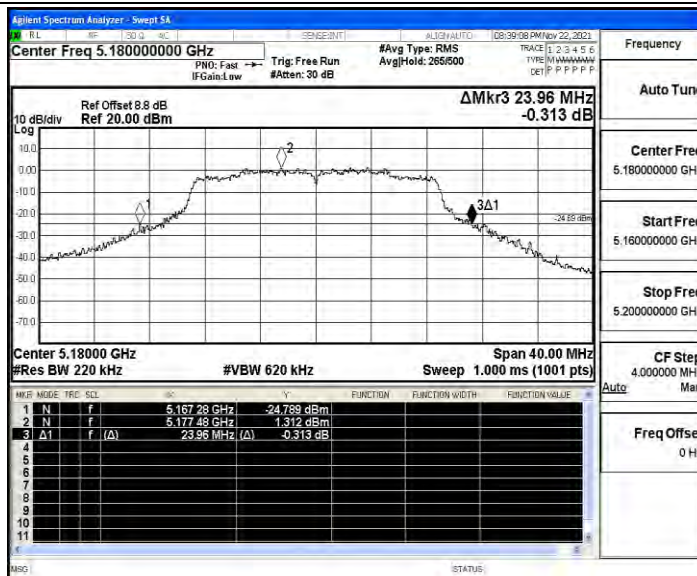




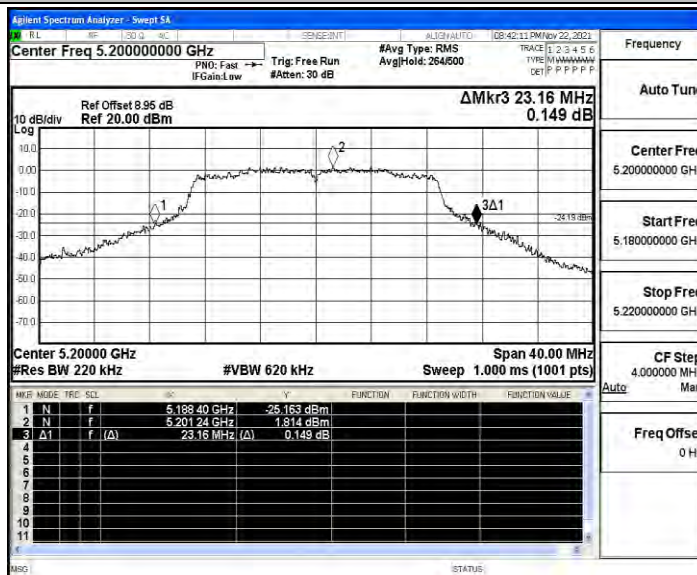
11A\_Ant0\_5240



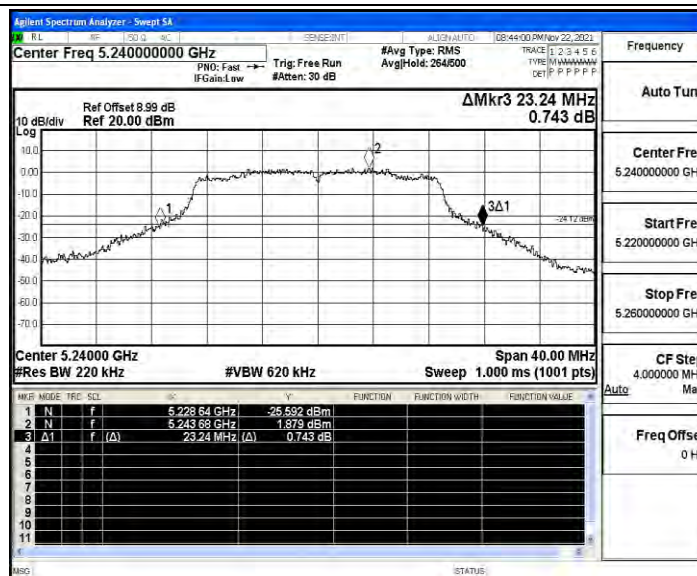
11N20SISO\_Ant0\_5180



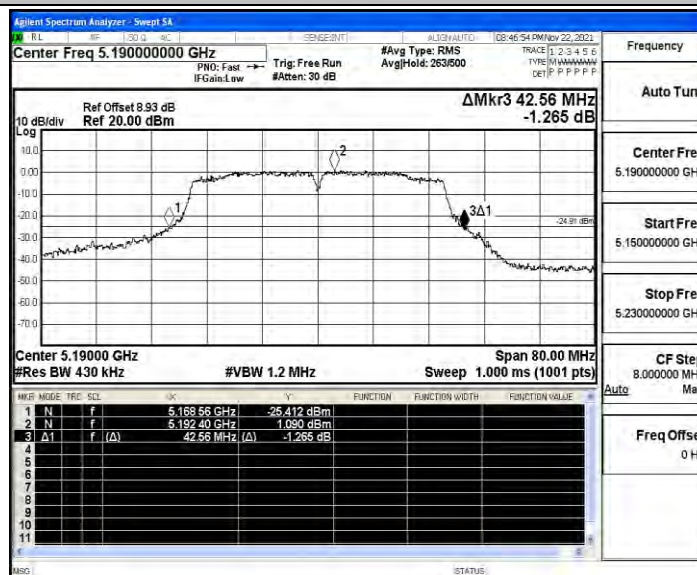
11N20SISO\_Ant0\_5200



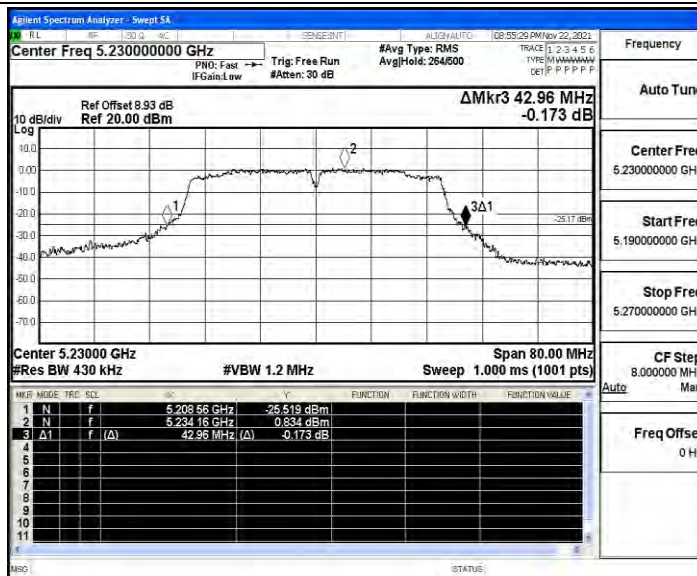
11N20SISO\_Ant0\_5240



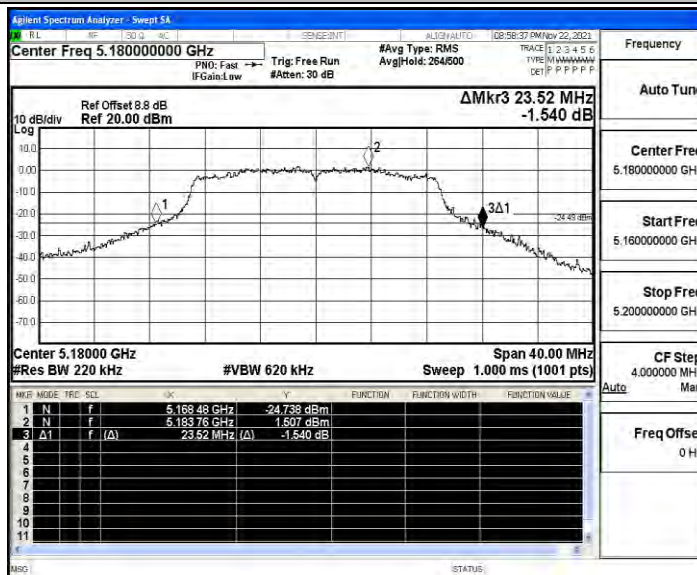
11N40SISO\_Ant0\_5190



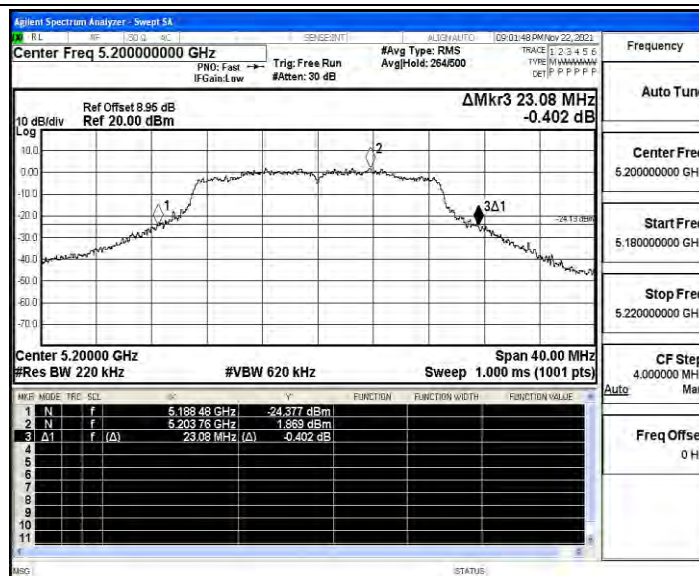
11N40SISO\_Ant0\_5230



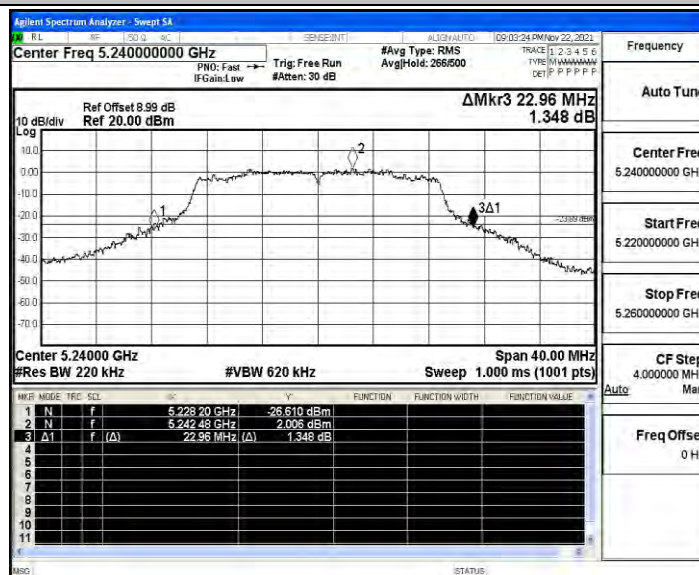
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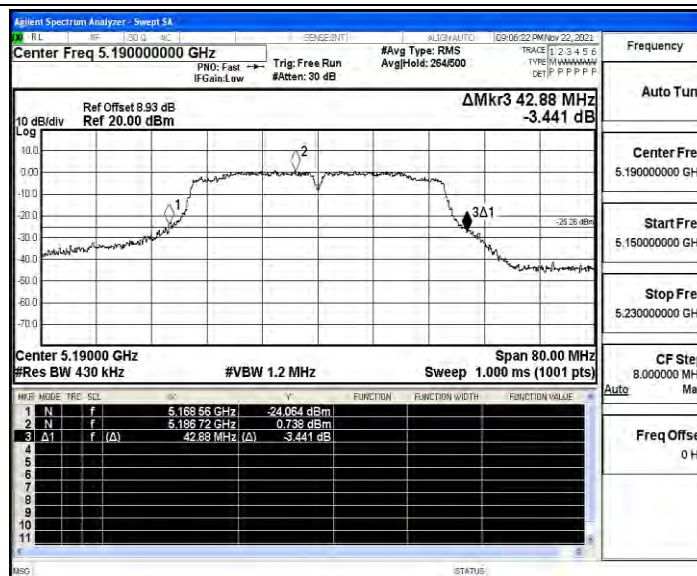
11AC20SISO\_Ant0\_5200



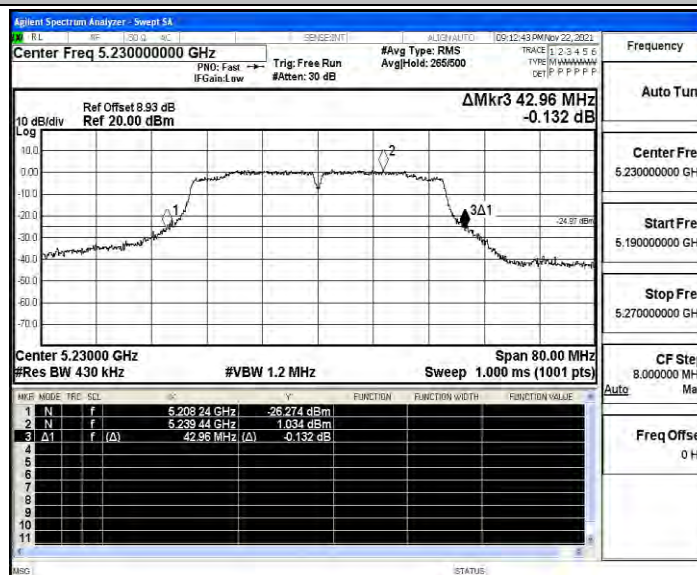
11AC20SISO\_Ant0\_5240



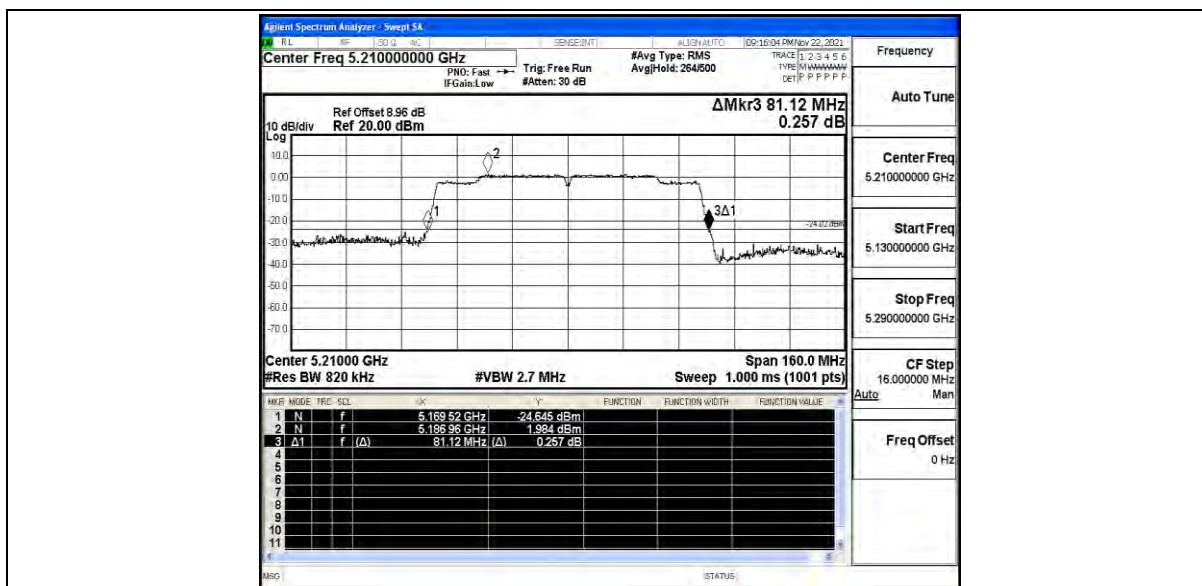
11AC40SISO\_Ant0\_5190



11AC40SISO\_Ant0\_5230



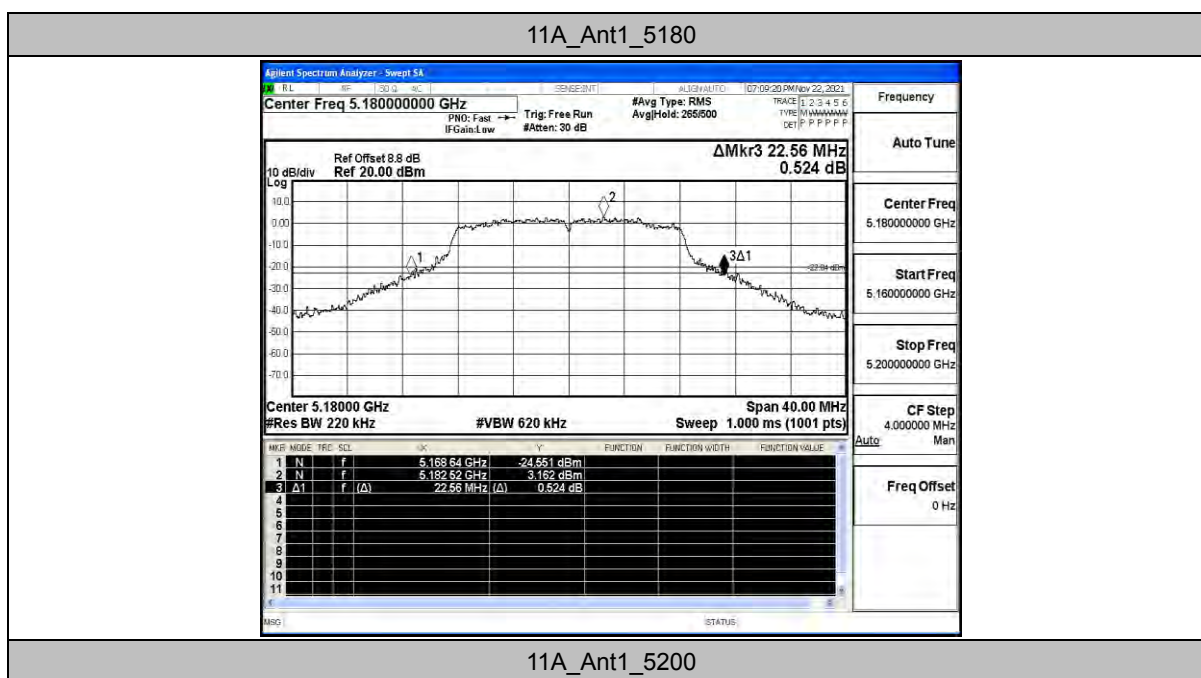
11AC80SISO\_Ant0\_5210

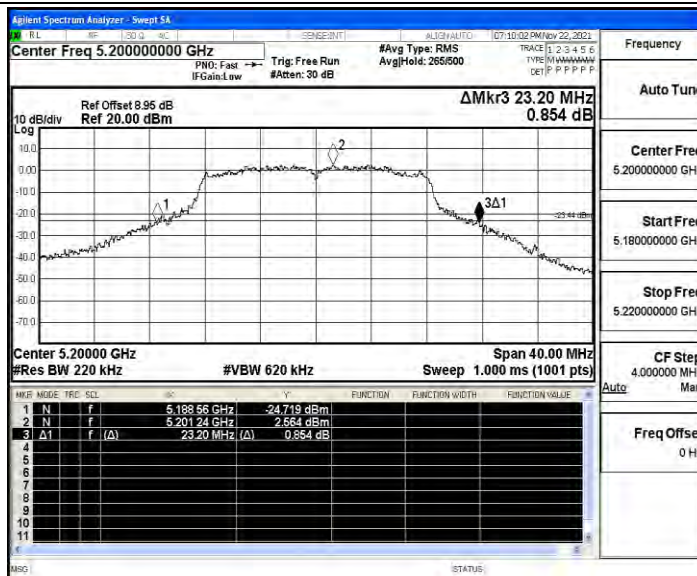




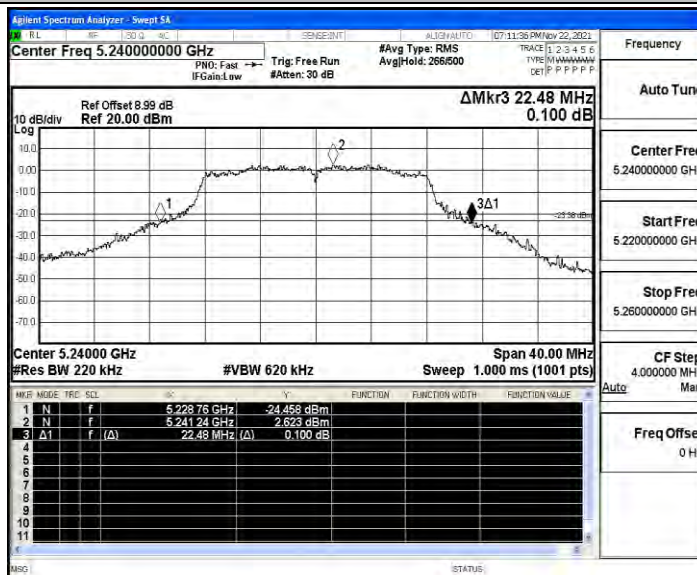
| TestMode   | Antenna | Channel | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|---------|----------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180    | 22.560         | 5168.640 | 5191.200 | ---        | PASS    |
|            |         | 5200    | 23.200         | 5188.560 | 5211.760 | ---        | PASS    |
|            |         | 5240    | 22.480         | 5228.760 | 5251.240 | ---        | PASS    |
| 11N20SISO  | Ant1    | 5180    | 23.040         | 5168.600 | 5191.640 | ---        | PASS    |
|            |         | 5200    | 22.160         | 5188.960 | 5211.120 | ---        | PASS    |
|            |         | 5240    | 22.560         | 5228.920 | 5251.480 | ---        | PASS    |
| 11N40SISO  | Ant1    | 5190    | 41.440         | 5169.520 | 5210.960 | ---        | PASS    |
|            |         | 5230    | 42.400         | 5208.640 | 5251.040 | ---        | PASS    |
| 11AC20SISO | Ant1    | 5180    | 21.920         | 5168.960 | 5190.880 | ---        | PASS    |
|            |         | 5200    | 22.800         | 5188.680 | 5211.480 | ---        | PASS    |
|            |         | 5240    | 23.360         | 5228.080 | 5251.440 | ---        | PASS    |
| 11AC40SISO | Ant1    | 5190    | 42.720         | 5168.160 | 5210.880 | ---        | PASS    |
|            |         | 5230    | 42.960         | 5208.480 | 5251.440 | ---        | PASS    |
| 11AC80SISO | Ant1    | 5210    | 81.920         | 5168.880 | 5250.800 | ---        | PASS    |

## Test Graphs

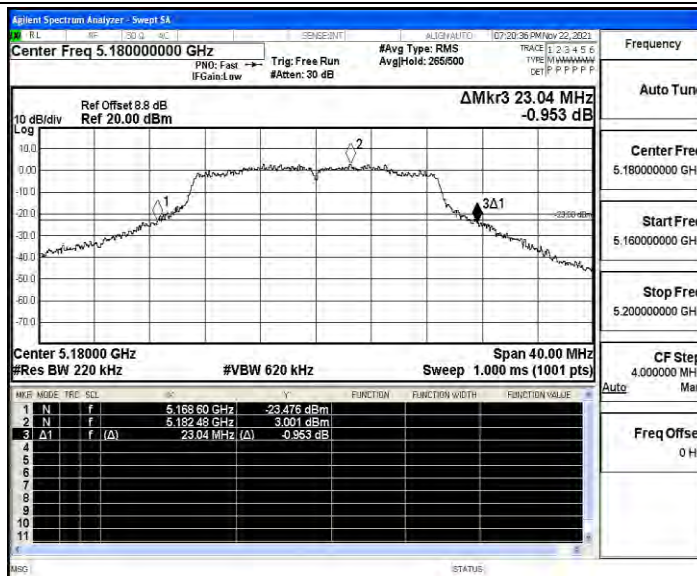




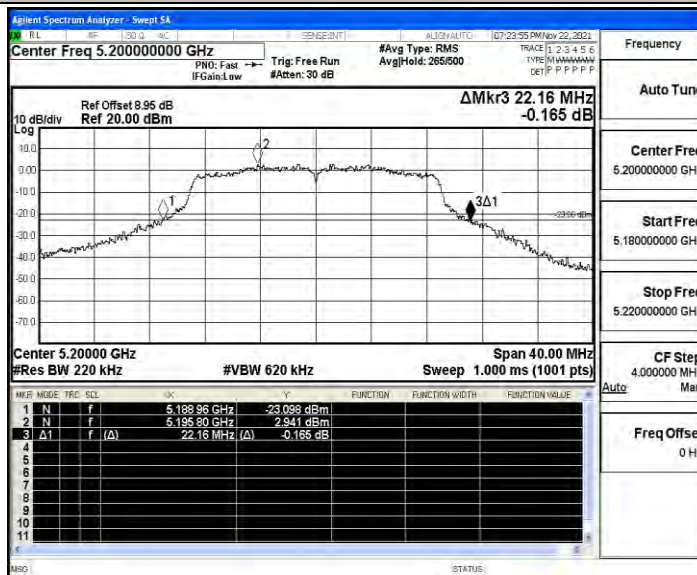
11A\_Ant1\_5240



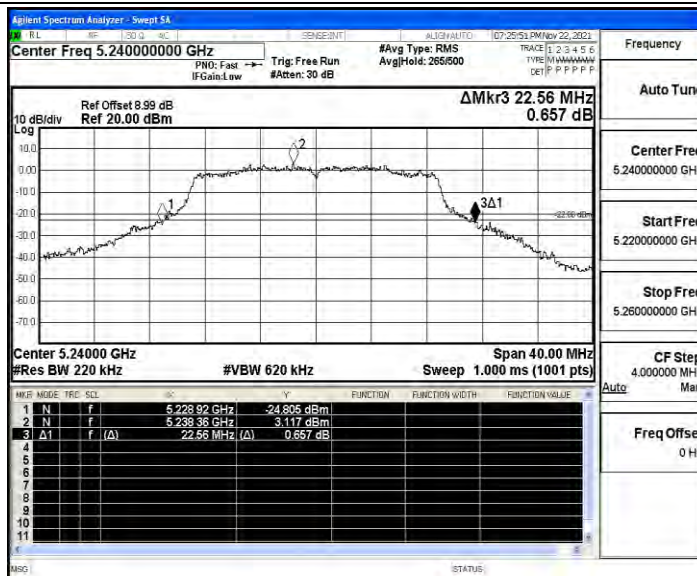
11N20SISO\_Ant1\_5180



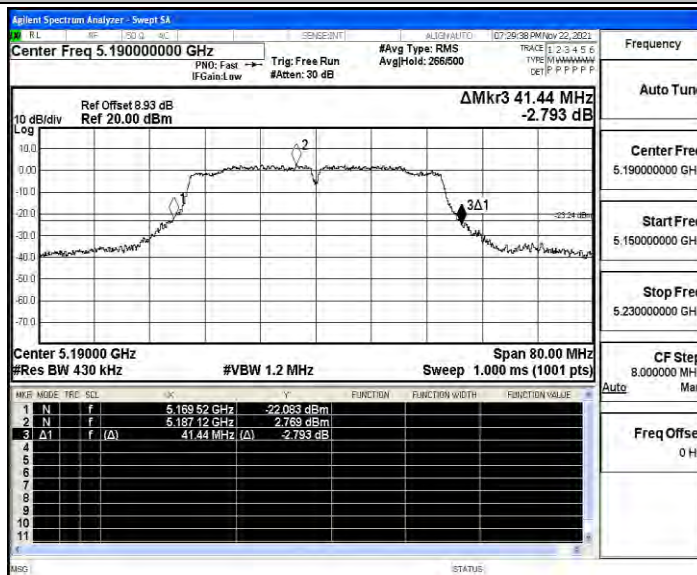
11N20SISO\_Ant1\_5200



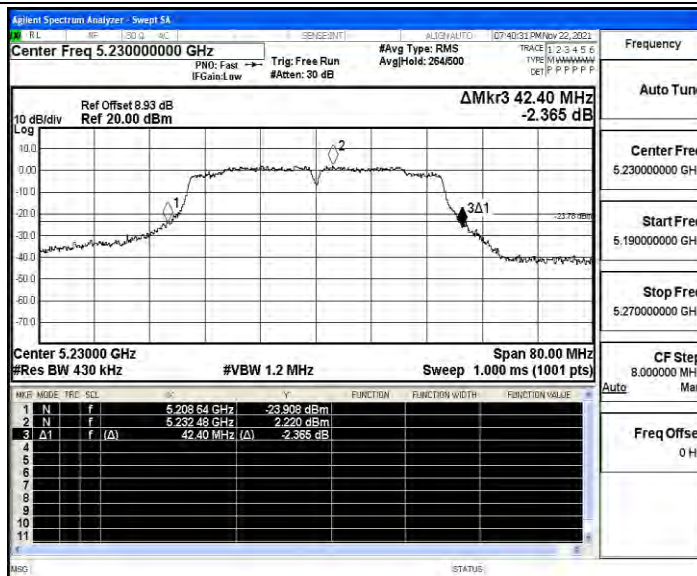
11N20SISO\_Ant1\_5240



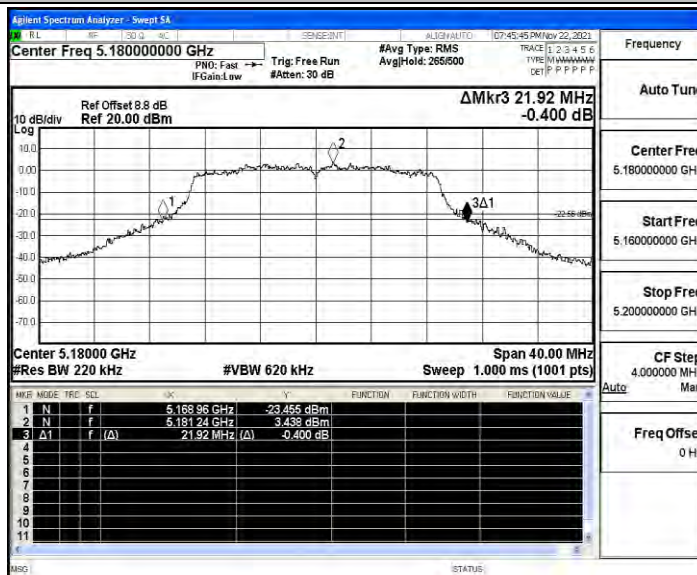
11N40SISO\_Ant1\_5190



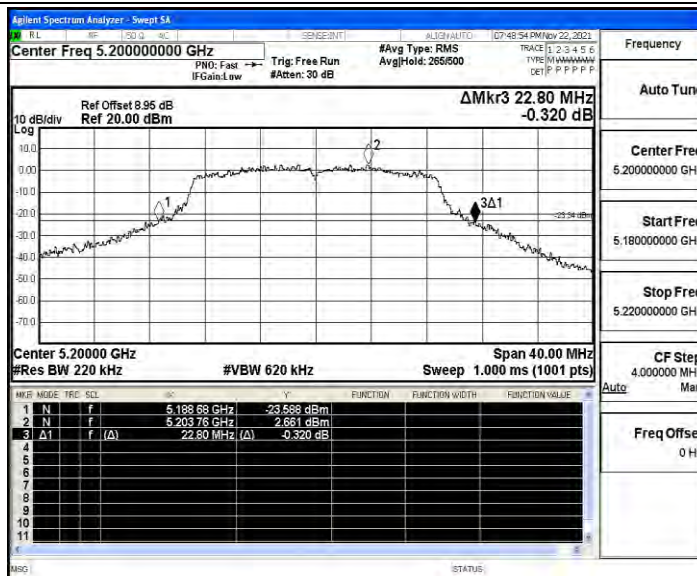
11N40SISO\_Ant1\_5230



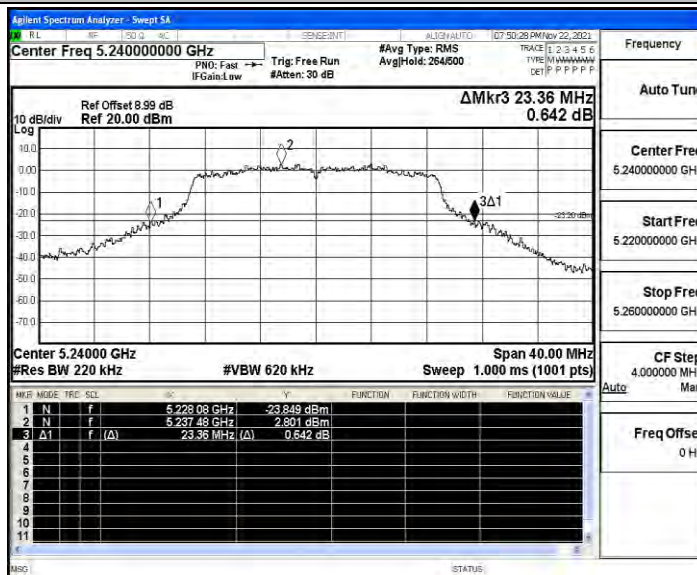
11AC20SISO\_Ant1\_5180



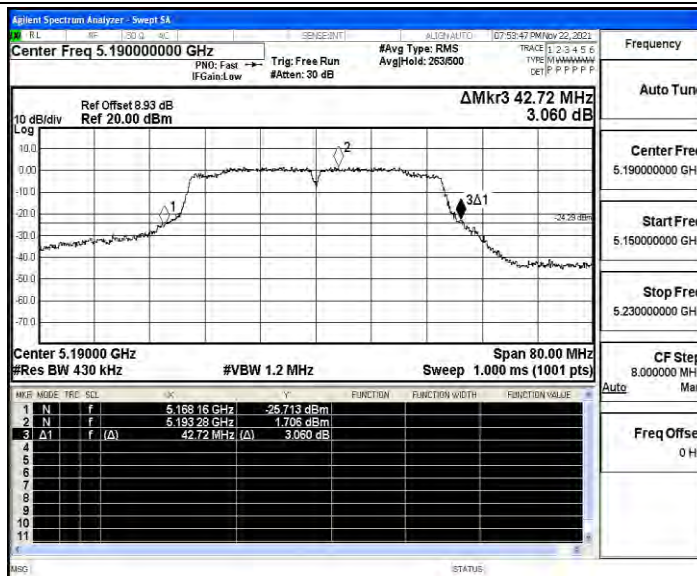
11AC20SISO\_Ant1\_5200



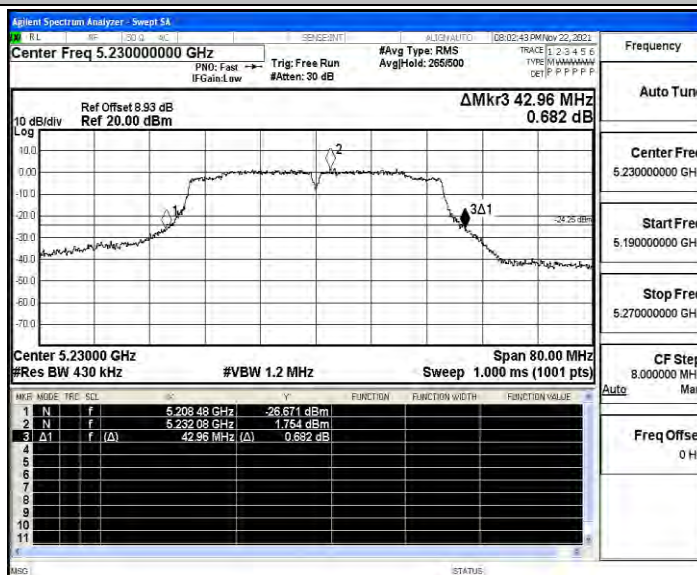
11AC20SISO\_Ant1\_5240



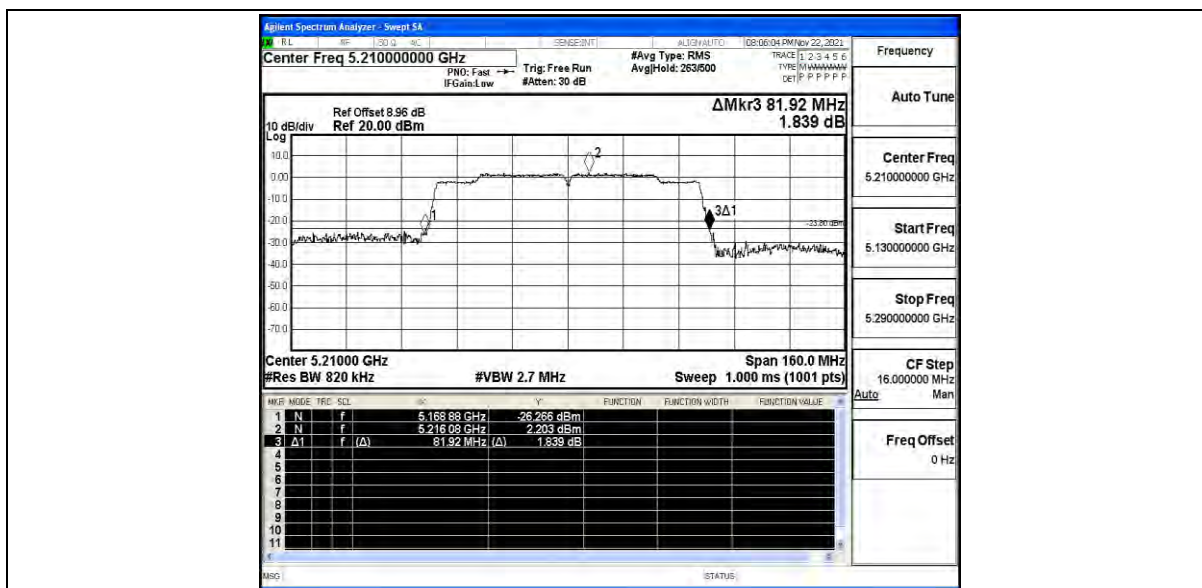
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210





## D.2 Maximum conducted output power

### Test Result

| TestMode   | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|---------|-------------|------------|---------|
| 11A        | Ant0    | 5180    | 11.18       | ≤23.98     | PASS    |
|            |         | 5200    | 12.24       | ≤23.98     | PASS    |
|            |         | 5240    | 12.36       | ≤23.98     | PASS    |
| 11N20SISO  | Ant0    | 5180    | 11.92       | ≤23.98     | PASS    |
|            |         | 5200    | 11.67       | ≤23.98     | PASS    |
|            |         | 5240    | 11.87       | ≤23.98     | PASS    |
| 11N40SISO  | Ant0    | 5190    | 12.16       | ≤23.98     | PASS    |
|            |         | 5230    | 12.22       | ≤23.98     | PASS    |
| 11AC20SISO | Ant0    | 5180    | 11.37       | ≤23.98     | PASS    |
|            |         | 5200    | 12.10       | ≤23.98     | PASS    |
|            |         | 5240    | 12.21       | ≤23.98     | PASS    |
| 11AC40SISO | Ant0    | 5190    | 12.15       | ≤23.98     | PASS    |
|            |         | 5230    | 12.38       | ≤23.98     | PASS    |
| 11AC80SISO | Ant0    | 5210    | 12.53       | ≤23.98     | PASS    |

| TestMode   | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|---------|-------------|------------|---------|
| 11A        | Ant1    | 5180    | 12.67       | ≤23.98     | PASS    |
|            |         | 5200    | 12.78       | ≤23.98     | PASS    |
|            |         | 5240    | 13.43       | ≤23.98     | PASS    |
| 11N20SISO  | Ant1    | 5180    | 12.34       | ≤23.98     | PASS    |
|            |         | 5200    | 13.01       | ≤23.98     | PASS    |
|            |         | 5240    | 13.00       | ≤23.98     | PASS    |
| 11N40SISO  | Ant1    | 5190    | 13.41       | ≤23.98     | PASS    |
|            |         | 5230    | 13.69       | ≤23.98     | PASS    |
| 11AC20SISO | Ant1    | 5180    | 13.08       | ≤23.98     | PASS    |
|            |         | 5200    | 12.90       | ≤23.98     | PASS    |
|            |         | 5240    | 13.05       | ≤23.98     | PASS    |
| 11AC40SISO | Ant1    | 5190    | 13.03       | ≤23.98     | PASS    |
|            |         | 5230    | 12.40       | ≤23.98     | PASS    |
| 11AC80SISO | Ant1    | 5210    | 13.14       | ≤23.98     | PASS    |



## MIMO

| Test Mode | Channel | Frequency (MHz) | ANT 0 Conducted Power (dBm) | ANT 1 Conducted Power (dBm) | MIMO AV Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-----------------------------|-----------------------------|-------------------------------|-------------|---------|
| 11N20     | 36      | 5180            | 11.92                       | 12.34                       | 15.15                         | ≤23.98      | Pass    |
|           | 40      | 5200            | 11.67                       | 13.01                       | 15.40                         |             | Pass    |
|           | 48      | 5240            | 11.87                       | 13.00                       | 15.48                         |             | Pass    |
| 11N40     | 38      | 5190            | 12.16                       | 13.41                       | 15.84                         | ≤23.98      | Pass    |
|           | 46      | 5230            | 12.22                       | 13.69                       | 16.03                         |             | Pass    |
| 11AC20    | 36      | 5180            | 11.37                       | 13.08                       | 15.32                         | ≤23.98      | Pass    |
|           | 40      | 5200            | 12.10                       | 12.90                       | 15.53                         |             | Pass    |
|           | 48      | 5240            | 12.21                       | 13.05                       | 15.66                         |             | Pass    |
| 11AC40    | 38      | 5190            | 12.15                       | 13.03                       | 15.62                         | ≤23.98      | Pass    |
|           | 46      | 5230            | 12.38                       | 12.40                       | 15.40                         |             | Pass    |
| 11AC80    | 42      | 5210            | 12.53                       | 13.14                       | 15.86                         | ≤23.98      | Pass    |

Note: The Duty Cycle Factor is compensated in the graph.



### D.3 Maximum power spectral density

#### Test Result

| TestMode   | Antenna | Channel | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|---------|------------------|----------------|---------|
| 11A        | Ant0    | 5180    | 0.81             | ≤11            | PASS    |
|            |         | 5200    | 1.88             | ≤11            | PASS    |
|            |         | 5240    | 1.95             | ≤11            | PASS    |
| 11N20SISO  | Ant0    | 5180    | 1.22             | ≤11            | PASS    |
|            |         | 5200    | 1.15             | ≤11            | PASS    |
|            |         | 5240    | 1.25             | ≤11            | PASS    |
| 11N40SISO  | Ant0    | 5190    | -1.8             | ≤11            | PASS    |
|            |         | 5230    | -1.93            | ≤11            | PASS    |
| 11AC20SISO | Ant0    | 5180    | 0.81             | ≤11            | PASS    |
|            |         | 5200    | 1.37             | ≤11            | PASS    |
|            |         | 5240    | 1.51             | ≤11            | PASS    |
| 11AC40SISO | Ant0    | 5190    | -1.78            | ≤11            | PASS    |
|            |         | 5230    | -1.65            | ≤11            | PASS    |
| 11AC80SISO | Ant0    | 5210    | -4.32            | ≤11            | PASS    |

| TestMode   | Antenna | Channel | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|---------|------------------|----------------|---------|
| 11A        | Ant1    | 5180    | 2.26             | ≤11            | PASS    |
|            |         | 5200    | 2.26             | ≤11            | PASS    |
|            |         | 5240    | 2.92             | ≤11            | PASS    |
| 11N20SISO  | Ant1    | 5180    | 1.72             | ≤11            | PASS    |
|            |         | 5200    | 2.42             | ≤11            | PASS    |
|            |         | 5240    | 2.42             | ≤11            | PASS    |
| 11N40SISO  | Ant1    | 5190    | -0.65            | ≤11            | PASS    |
|            |         | 5230    | -0.22            | ≤11            | PASS    |
| 11AC20SISO | Ant1    | 5180    | 2.43             | ≤11            | PASS    |
|            |         | 5200    | 2.11             | ≤11            | PASS    |
|            |         | 5240    | 2.55             | ≤11            | PASS    |
| 11AC40SISO | Ant1    | 5190    | -1.09            | ≤11            | PASS    |
|            |         | 5230    | -1.71            | ≤11            | PASS    |
| 11AC80SISO | Ant1    | 5210    | -3.78            | ≤11            | PASS    |

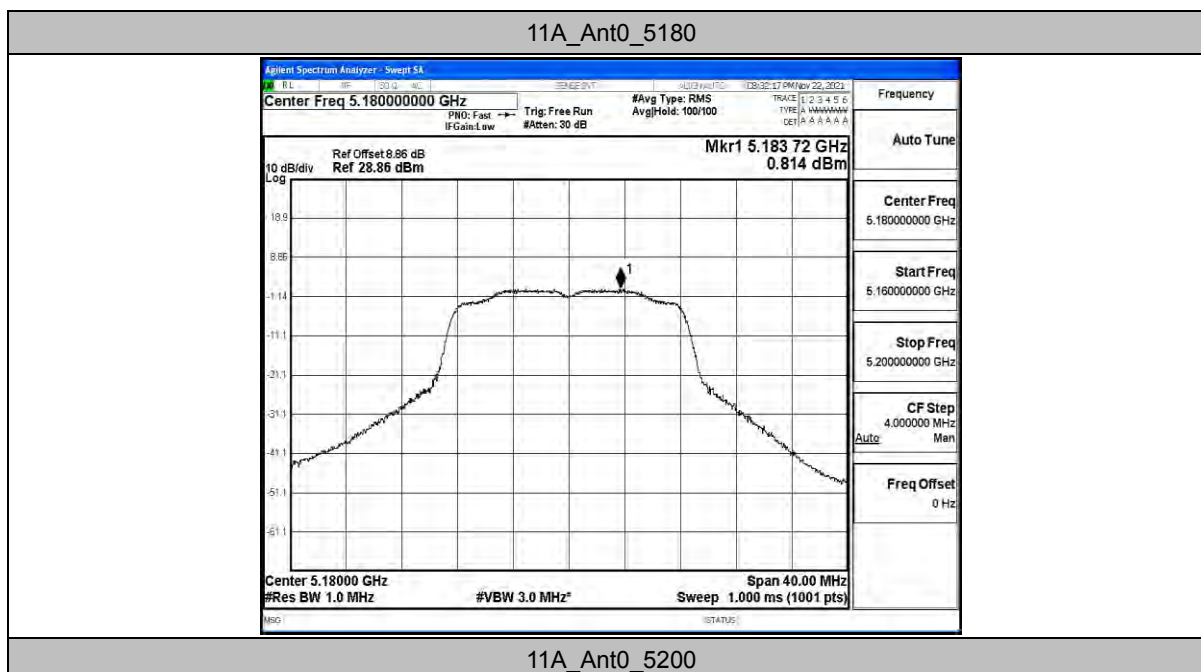


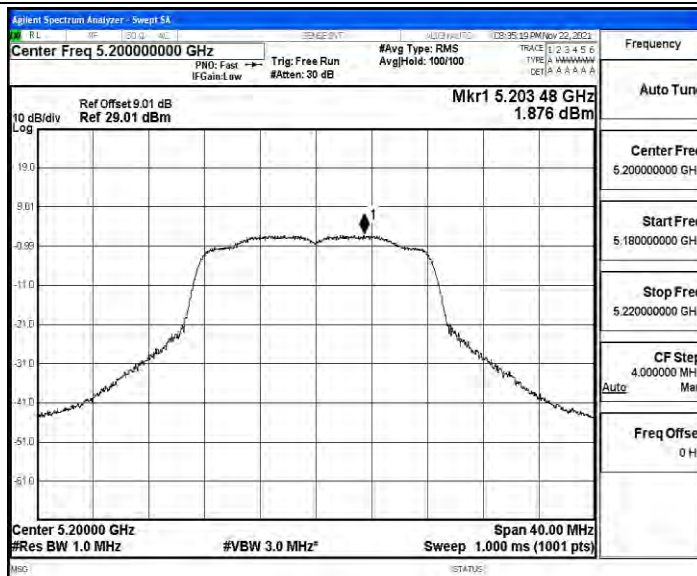
## MIMO

| Test Mode | Channel | Frequency (MHz) | ANT 0 PSD (dBm/MHz) | ANT 1 PSD (dBm/MHz) | MIMO PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|---------|-----------------|---------------------|---------------------|--------------------|-----------------|---------|
| 11N20     | 36      | 5180            | 1.22                | 1.72                | 4.49               | ≤11             | Pass    |
|           | 40      | 5200            | 1.15                | 2.42                | 4.84               |                 | Pass    |
|           | 48      | 5240            | 1.25                | 2.42                | 4.88               |                 | Pass    |
| 11N40     | 38      | 5190            | -1.8                | -0.65               | 1.82               | ≤11             | Pass    |
|           | 46      | 5230            | -1.93               | -0.22               | 2.02               |                 | Pass    |
| 11AC20    | 36      | 5180            | 0.81                | 2.43                | 4.71               | ≤11             | Pass    |
|           | 40      | 5200            | 1.37                | 2.11                | 4.77               |                 | Pass    |
|           | 48      | 5240            | 1.51                | 2.55                | 5.07               |                 | Pass    |
| 11AC40    | 38      | 5190            | -1.78               | -1.09               | 1.59               | ≤11             | Pass    |
|           | 46      | 5230            | -1.65               | -1.71               | 1.33               |                 | Pass    |
| 11AC80    | 42      | 5210            | -4.32               | -3.78               | -1.03              | ≤11             | Pass    |

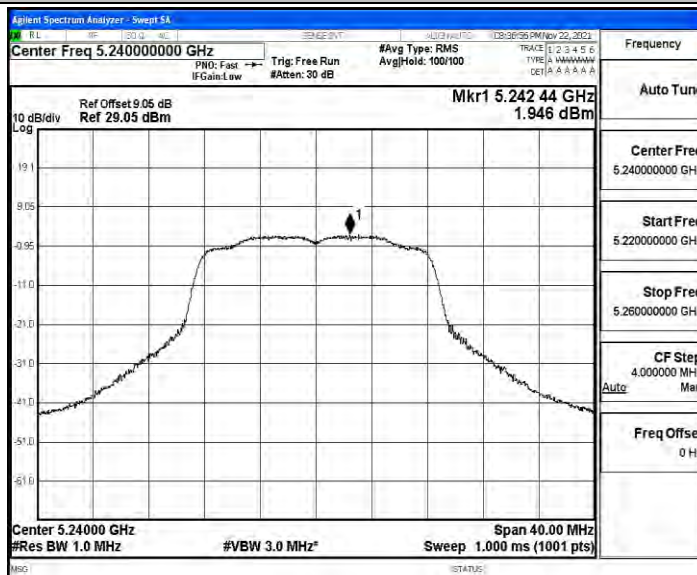
Note: The Duty Factor is compensated in the graph.

## Test Graphs

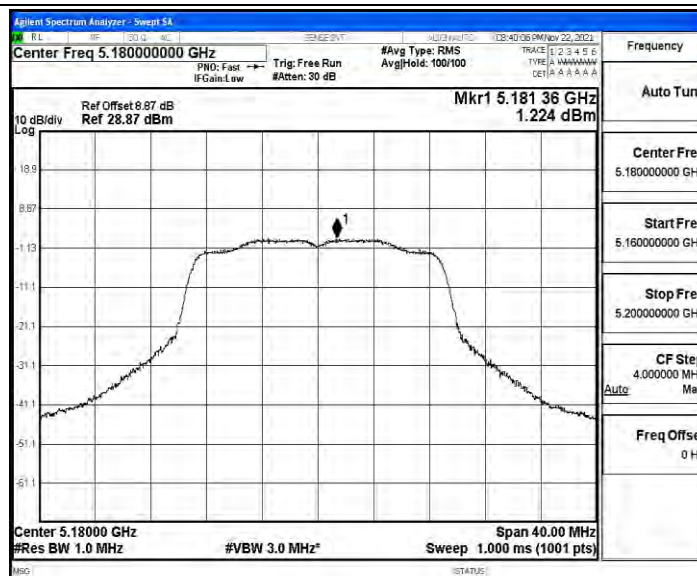




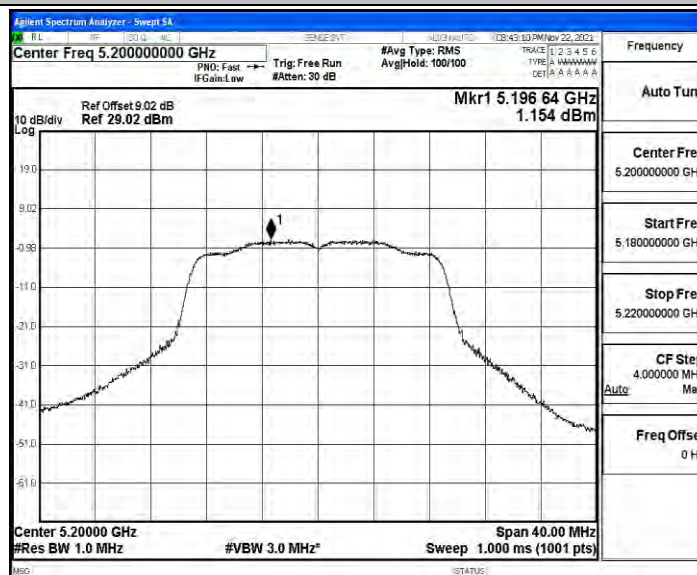
11A\_Ant0\_5240



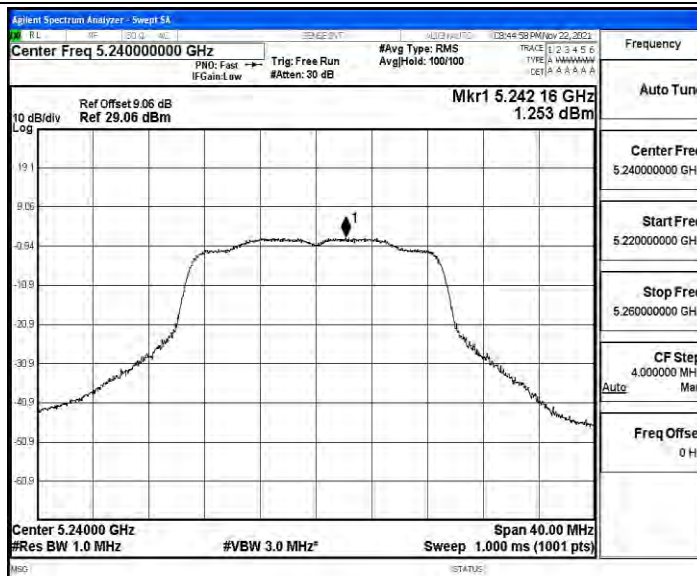
11N20SISO\_Ant0\_5180



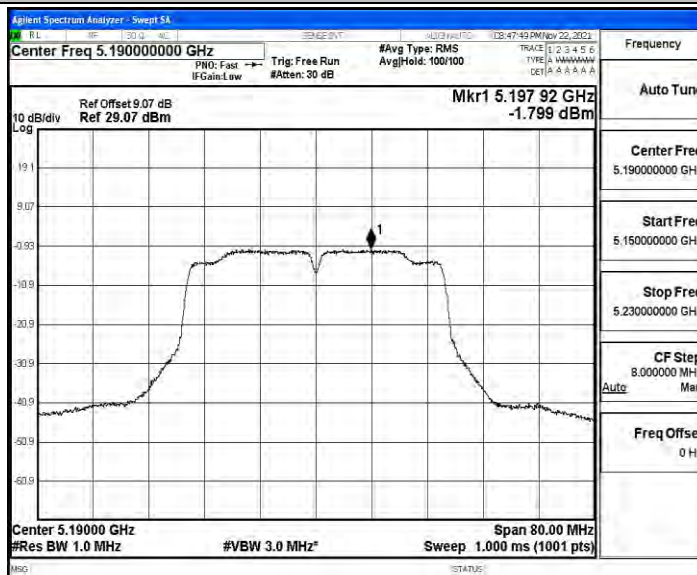
11N20SISO\_Ant0\_5200



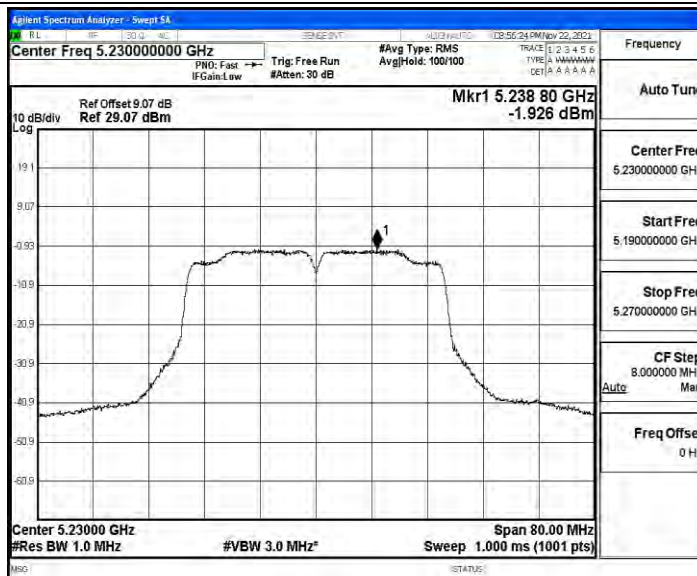
11N20SISO\_Ant0\_5240



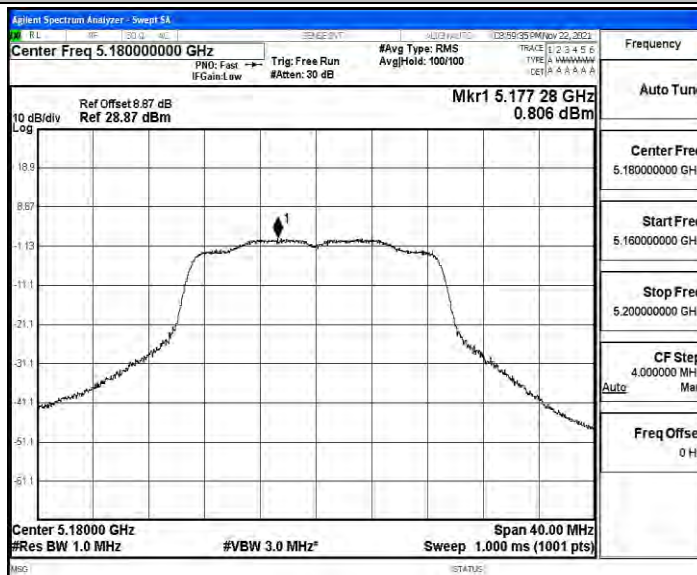
11N40SISO\_Ant0\_5190



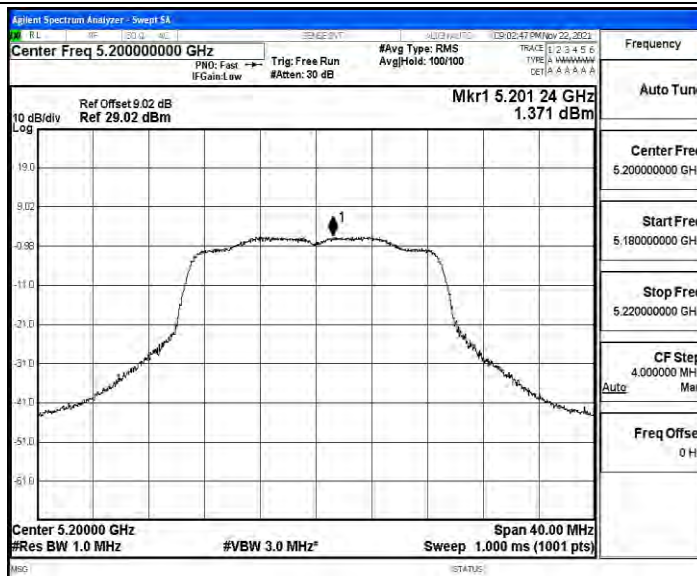
11N40SISO\_Ant0\_5230



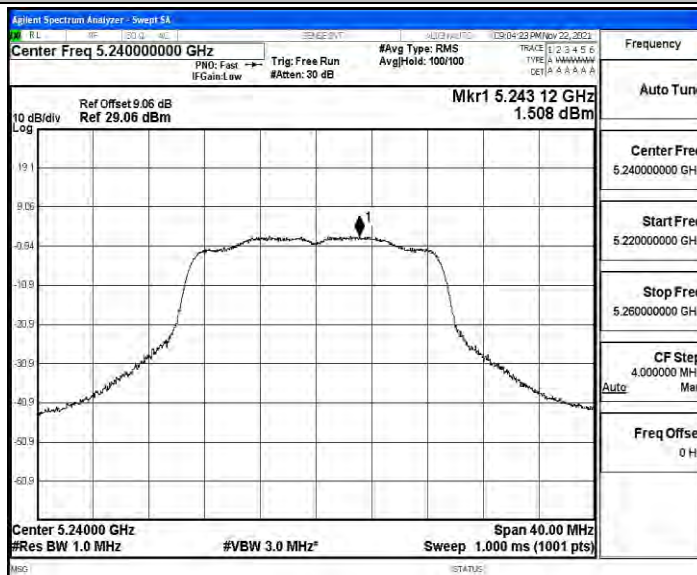
11AC20SISO\_Ant0\_5180



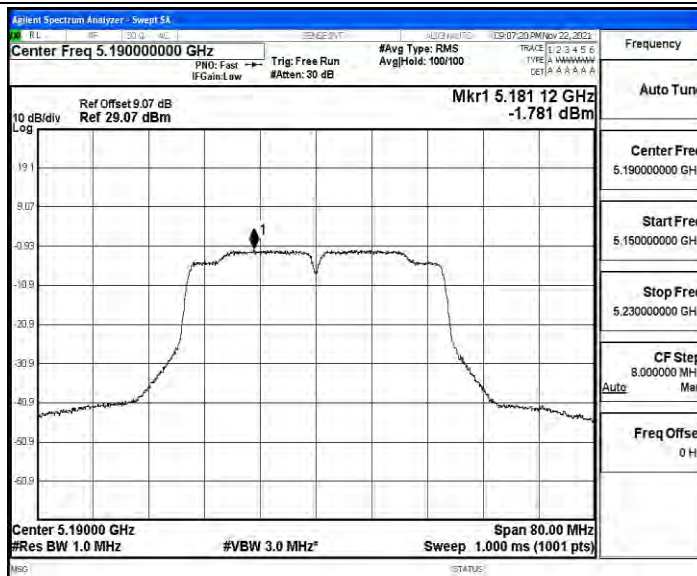
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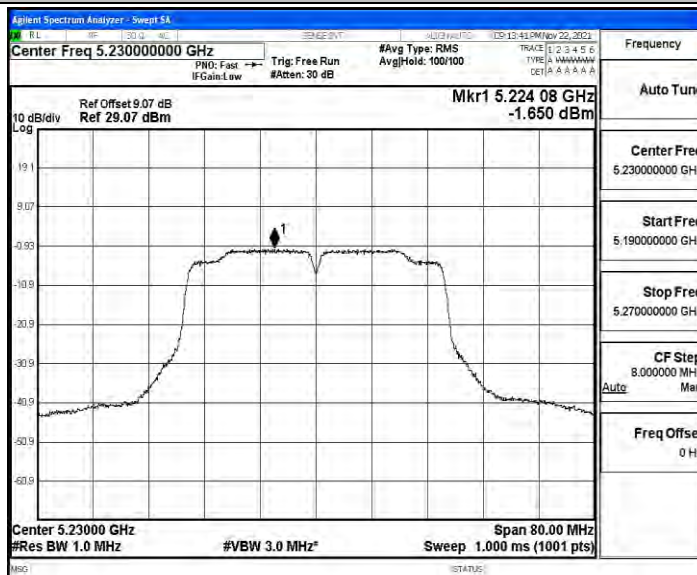
11AC20SISO\_Ant0\_5240



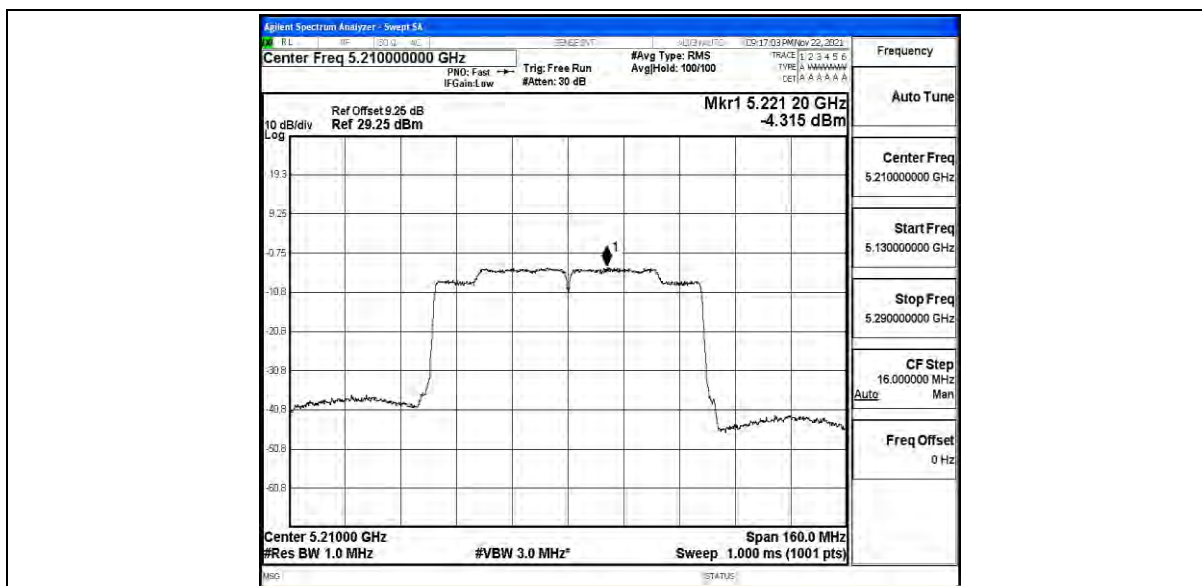
11AC40SISO\_Ant0\_5190



11AC40SISO\_Ant0\_5230



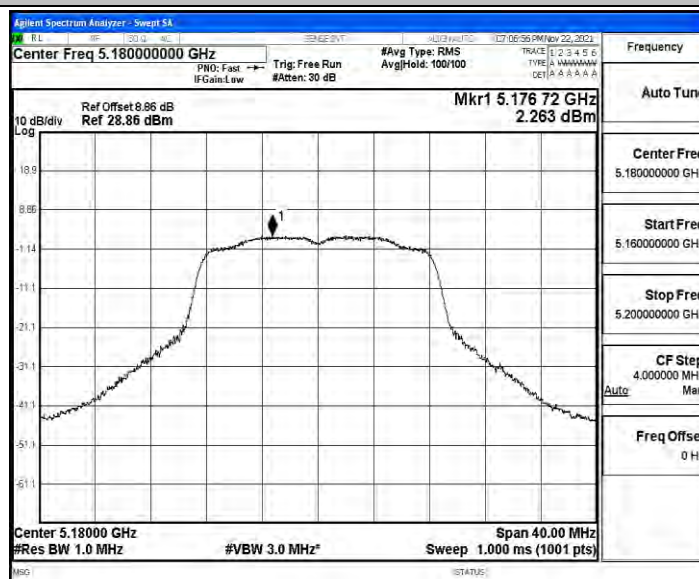
11AC80SISO\_Ant0\_5210



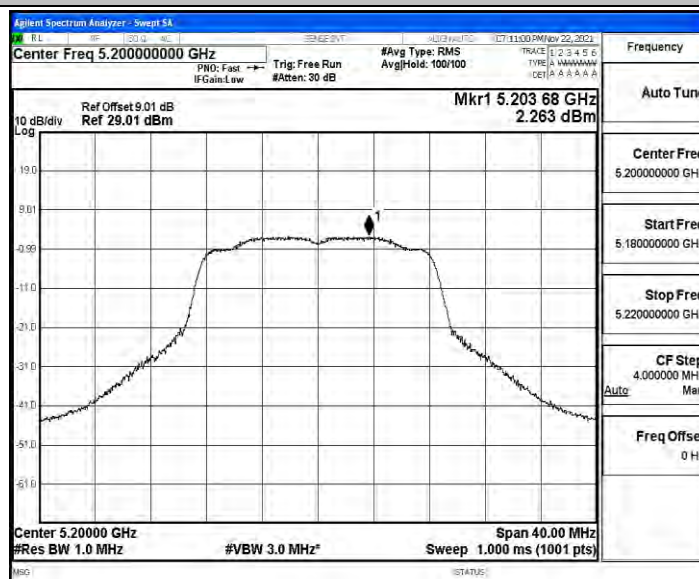


## Test Graphs

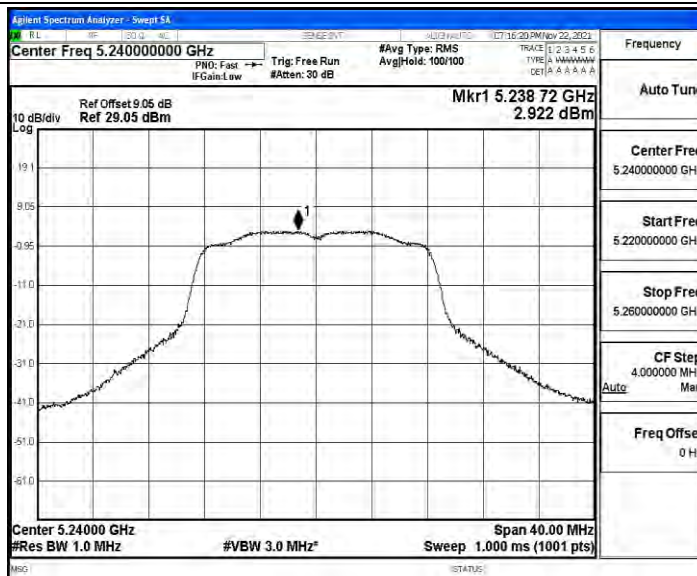
11A\_Ant1\_5180



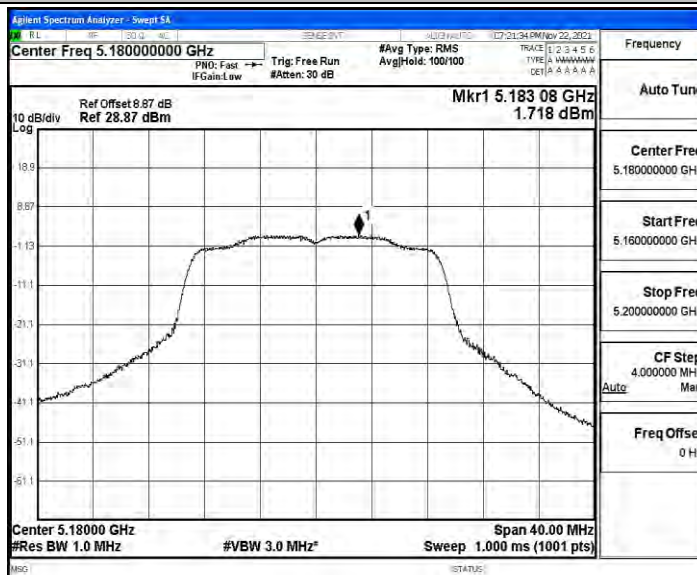
11A\_Ant1\_5200



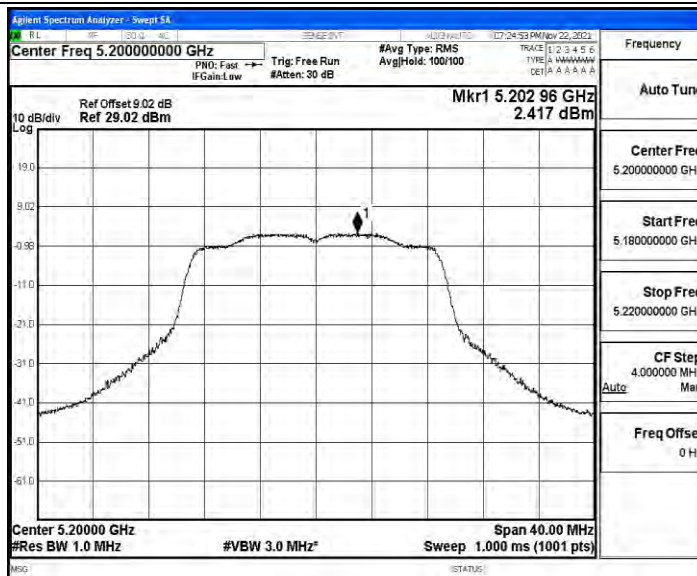
11A\_Ant1\_5240



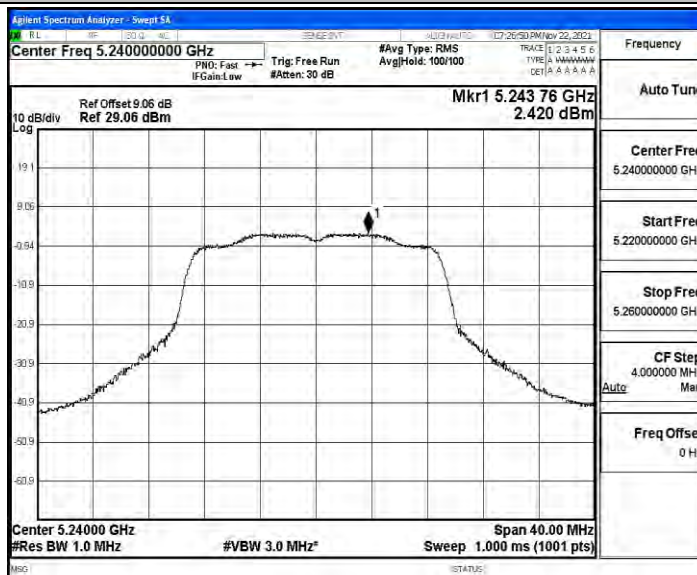
11N20SISO\_Ant1\_5180



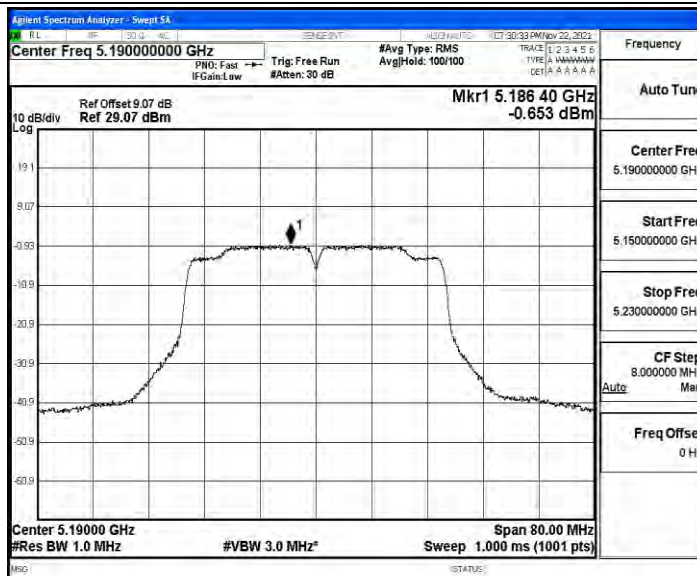
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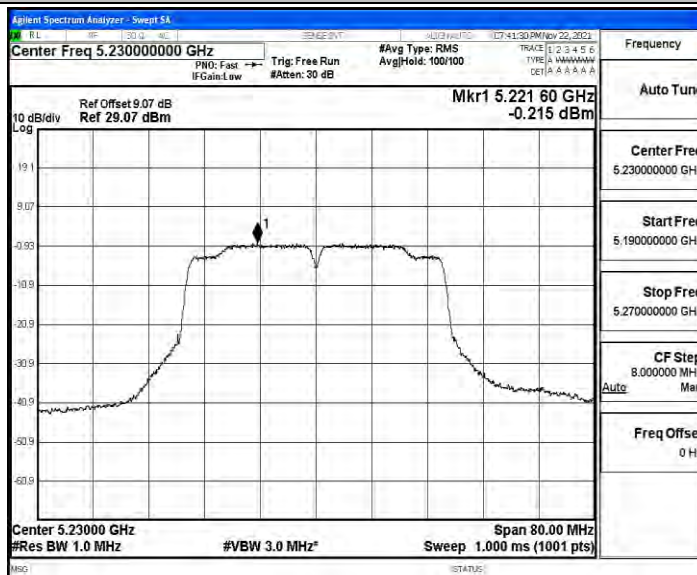
11N20SISO\_Ant1\_5240



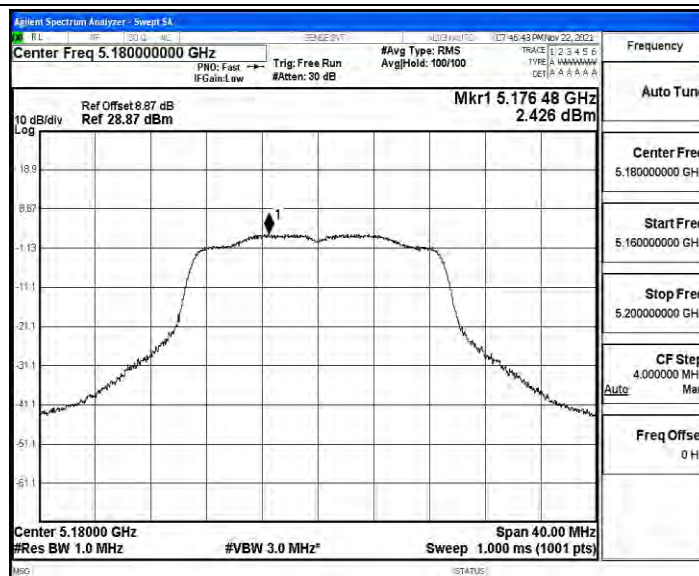
11N40SISO\_Ant1\_5190



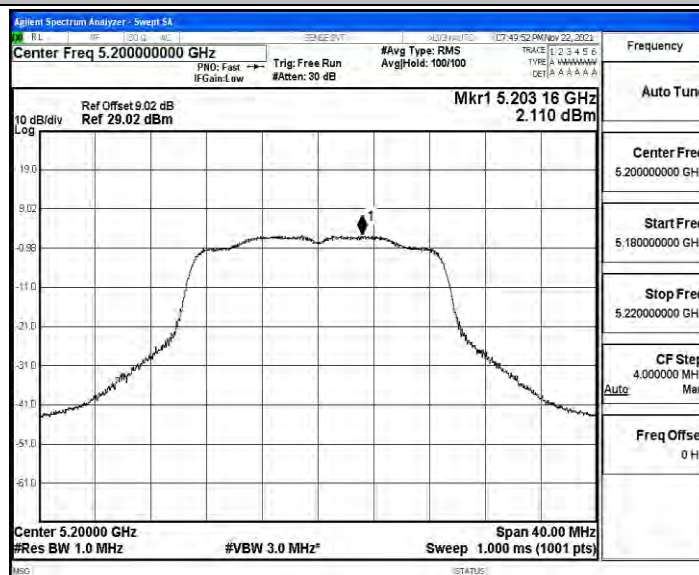
11N40SISO\_Ant1\_5230



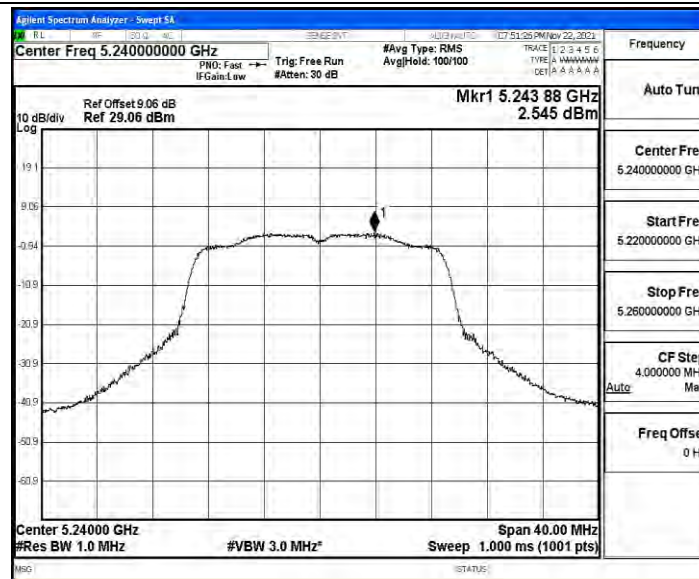
11AC20SISO\_Ant1\_5180



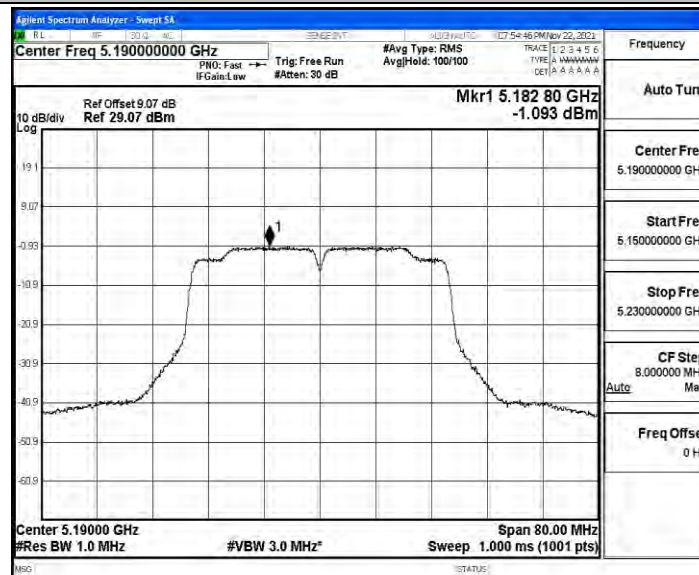
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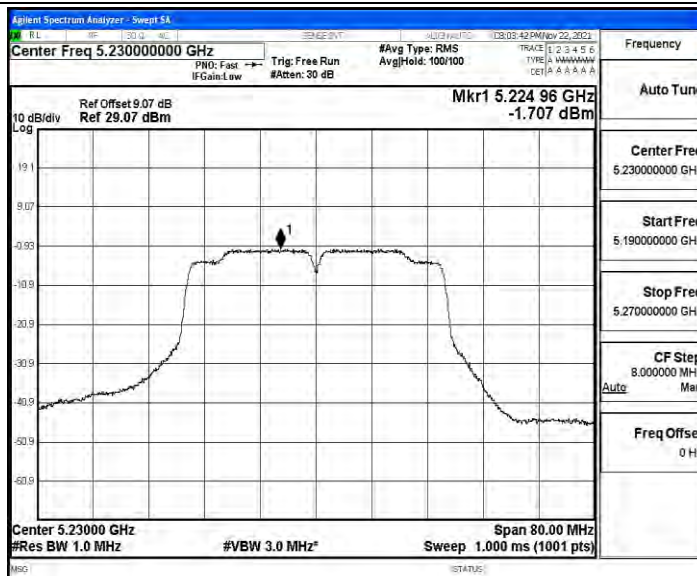
11AC20SISO\_Ant1\_5240



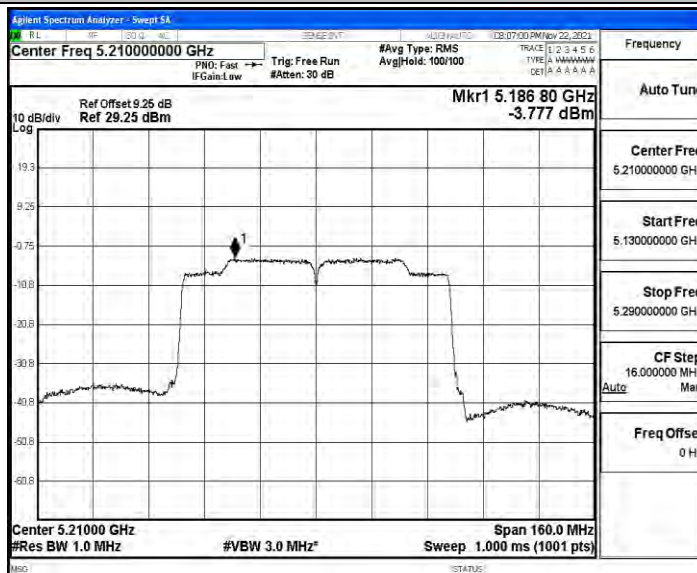
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210





## D.4 Emissions in Restricted Bands

### Test Result

| Test Mode  | Antenna | Channel | Detector | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|------------|---------|---------|----------|-------------|--------------|-------------|-----------------|----------------|---------|
| 11A        | Ant0    | 5180    | AV       | 4500.000    | -49.83       | ≤-41.20     | 45.37           | ≤54            | PASS    |
|            |         |         | AV       | 5149.600    | -47.23       | ≤-41.20     | 47.97           | ≤54            | PASS    |
|            |         |         | AV       | 5150.000    | -47.16       | ≤-41.20     | 48.04           | ≤54            | PASS    |
|            |         |         | Peak     | 4500.000    | -46.16       | ≤-21.20     | 49.04           | ≤74            | PASS    |
|            |         |         | Peak     | 4937.500    | -38.18       | ≤-21.20     | 57.02           | ≤74            | PASS    |
|            |         |         | Peak     | 5150.000    | -43.99       | ≤-21.20     | 51.21           | ≤74            | PASS    |
|            |         | 5240    | AV       | 5350.000    | -47.71       | ≤-41.20     | 47.49           | ≤54            | PASS    |
|            |         |         | AV       | 5350.320    | -47.71       | ≤-41.20     | 47.49           | ≤54            | PASS    |
|            |         |         | AV       | 5460.000    | -47.96       | ≤-41.20     | 47.24           | ≤54            | PASS    |
|            |         |         | Peak     | 5350.000    | -41.13       | ≤-21.20     | 54.07           | ≤74            | PASS    |
|            |         |         | Peak     | 5454.480    | -38.91       | ≤-21.20     | 56.29           | ≤74            | PASS    |
|            |         |         | Peak     | 5460.000    | -46.26       | ≤-21.20     | 48.94           | ≤74            | PASS    |
| 11N20 SISO | Ant0    | 5180    | AV       | 4500.000    | -49.85       | ≤-41.20     | 45.35           | ≤54            | PASS    |
|            |         |         | AV       | 5149.600    | -47.18       | ≤-41.20     | 48.02           | ≤54            | PASS    |
|            |         |         | AV       | 5150.000    | -47.11       | ≤-41.20     | 48.09           | ≤54            | PASS    |
|            |         |         | Peak     | 4500.000    | -44.57       | ≤-21.20     | 50.63           | ≤74            | PASS    |
|            |         |         | Peak     | 4789.800    | -38.78       | ≤-21.20     | 56.42           | ≤74            | PASS    |
|            |         |         | Peak     | 5150.000    | -43.84       | ≤-21.20     | 51.36           | ≤74            | PASS    |
|            |         | 5240    | AV       | 5350.000    | -47.91       | ≤-41.20     | 47.29           | ≤54            | PASS    |
|            |         |         | AV       | 5357.760    | -47.84       | ≤-41.20     | 47.36           | ≤54            | PASS    |
|            |         |         | AV       | 5460.000    | -48.38       | ≤-41.20     | 46.82           | ≤54            | PASS    |
|            |         |         | Peak     | 5350.000    | -45.26       | ≤-21.20     | 49.94           | ≤74            | PASS    |
|            |         |         | Peak     | 5433.840    | -38.54       | ≤-21.20     | 56.66           | ≤74            | PASS    |
|            |         |         | Peak     | 5460.000    | -43.21       | ≤-21.20     | 51.99           | ≤74            | PASS    |
| 11N40 SISO | Ant0    | 5190    | AV       | 4500.000    | -49.73       | ≤-41.20     | 45.47           | ≤54            | PASS    |
|            |         |         | AV       | 4849.300    | -47.74       | ≤-41.20     | 47.46           | ≤54            | PASS    |
|            |         |         | AV       | 5150.000    | -47.85       | ≤-41.20     | 47.35           | ≤54            | PASS    |
|            |         |         | Peak     | 4500.000    | -43.5        | ≤-21.20     | 51.70           | ≤74            | PASS    |
|            |         |         | Peak     | 4803.800    | -38.09       | ≤-21.20     | 57.11           | ≤74            | PASS    |
|            |         |         | Peak     | 5150.000    | -43.48       | ≤-21.20     | 51.72           | ≤74            | PASS    |
|            |         | 5230    | AV       | 5350.000    | -47.99       | ≤-41.20     | 47.21           | ≤54            | PASS    |
|            |         |         | AV       | 5376.800    | -47.95       | ≤-41.20     | 47.25           | ≤54            | PASS    |
|            |         |         | AV       | 5460.000    | -48.46       | ≤-41.20     | 46.74           | ≤54            | PASS    |
|            |         |         | Peak     | 5350.000    | -46.83       | ≤-21.20     | 48.37           | ≤74            | PASS    |
|            |         |         | Peak     | 5369.000    | -40.73       | ≤-21.20     | 54.47           | ≤74            | PASS    |
|            |         |         | Peak     | 5460.000    | -44.66       | ≤-21.20     | 50.54           | ≤74            | PASS    |



|                |      |      |      |          |        |         |       |     |      |
|----------------|------|------|------|----------|--------|---------|-------|-----|------|
| 11AC20<br>SISO | Ant0 | 5180 | AV   | 4500.000 | -49.84 | ≤-41.20 | 45.36 | ≤54 | PASS |
|                |      |      | AV   | 5149.600 | -47.22 | ≤-41.20 | 47.98 | ≤54 | PASS |
|                |      |      | AV   | 5150.000 | -47.13 | ≤-41.20 | 48.07 | ≤54 | PASS |
|                |      |      | Peak | 4500.000 | -46.66 | ≤-21.20 | 48.54 | ≤74 | PASS |
|                |      |      | Peak | 4840.200 | -39.16 | ≤-21.20 | 56.04 | ≤74 | PASS |
|                |      |      | Peak | 5150.000 | -46.87 | ≤-21.20 | 48.33 | ≤74 | PASS |
|                |      | 5240 | AV   | 5350.000 | -47.91 | ≤-41.20 | 47.29 | ≤54 | PASS |
|                |      |      | AV   | 5351.280 | -47.88 | ≤-41.20 | 47.32 | ≤54 | PASS |
|                |      |      | AV   | 5460.000 | -48.36 | ≤-41.20 | 46.84 | ≤54 | PASS |
|                |      |      | Peak | 5350.000 | -43.51 | ≤-21.20 | 51.69 | ≤74 | PASS |
|                |      |      | Peak | 5396.640 | -38.97 | ≤-21.20 | 56.23 | ≤74 | PASS |
|                |      |      | Peak | 5460.000 | -44.13 | ≤-21.20 | 51.07 | ≤74 | PASS |
| 11AC40<br>SISO | Ant0 | 5190 | AV   | 4500.000 | -49.72 | ≤-41.20 | 45.48 | ≤54 | PASS |
|                |      |      | AV   | 4863.300 | -47.73 | ≤-41.20 | 47.47 | ≤54 | PASS |
|                |      |      | AV   | 5150.000 | -47.85 | ≤-41.20 | 47.35 | ≤54 | PASS |
|                |      |      | Peak | 4500.000 | -47.82 | ≤-21.20 | 47.38 | ≤74 | PASS |
|                |      |      | Peak | 4728.900 | -39.02 | ≤-21.20 | 56.18 | ≤74 | PASS |
|                |      |      | Peak | 5150.000 | -42.29 | ≤-21.20 | 52.91 | ≤74 | PASS |
|                |      | 5230 | AV   | 5350.000 | -47.97 | ≤-41.20 | 47.23 | ≤54 | PASS |
|                |      |      | AV   | 5350.800 | -47.96 | ≤-41.20 | 47.24 | ≤54 | PASS |
|                |      |      | AV   | 5460.000 | -48.42 | ≤-41.20 | 46.78 | ≤54 | PASS |
|                |      |      | Peak | 5350.000 | -42.63 | ≤-21.20 | 52.57 | ≤74 | PASS |
|                |      |      | Peak | 5436.600 | -39.65 | ≤-21.20 | 55.55 | ≤74 | PASS |
|                |      |      | Peak | 5460.000 | -44.09 | ≤-21.20 | 51.11 | ≤74 | PASS |
| 11AC80<br>SISO | Ant0 | 5210 | AV   | 4500.000 | -49.38 | ≤-41.20 | 45.82 | ≤54 | PASS |
|                |      |      | AV   | 5141.250 | -47.65 | ≤-41.20 | 47.55 | ≤54 | PASS |
|                |      |      | AV   | 5150.000 | -48.18 | ≤-41.20 | 47.02 | ≤54 | PASS |
|                |      |      | Peak | 4500.000 | -44.53 | ≤-21.20 | 50.67 | ≤74 | PASS |
|                |      |      | Peak | 4944.750 | -37.95 | ≤-21.20 | 57.25 | ≤74 | PASS |
|                |      |      | Peak | 5150.000 | -41.28 | ≤-21.20 | 53.92 | ≤74 | PASS |
|                |      | 5210 | AV   | 5350.000 | -48.19 | ≤-41.20 | 47.01 | ≤54 | PASS |
|                |      |      | AV   | 5354.160 | -48.16 | ≤-41.20 | 47.04 | ≤54 | PASS |
|                |      |      | AV   | 5460.000 | -48.44 | ≤-41.20 | 46.76 | ≤54 | PASS |
|                |      |      | Peak | 5350.000 | -44.43 | ≤-21.20 | 50.77 | ≤74 | PASS |
|                |      |      | Peak | 5387.200 | -40.17 | ≤-21.20 | 55.03 | ≤74 | PASS |
|                |      |      | Peak | 5460.000 | -45.06 | ≤-21.20 | 50.14 | ≤74 | PASS |

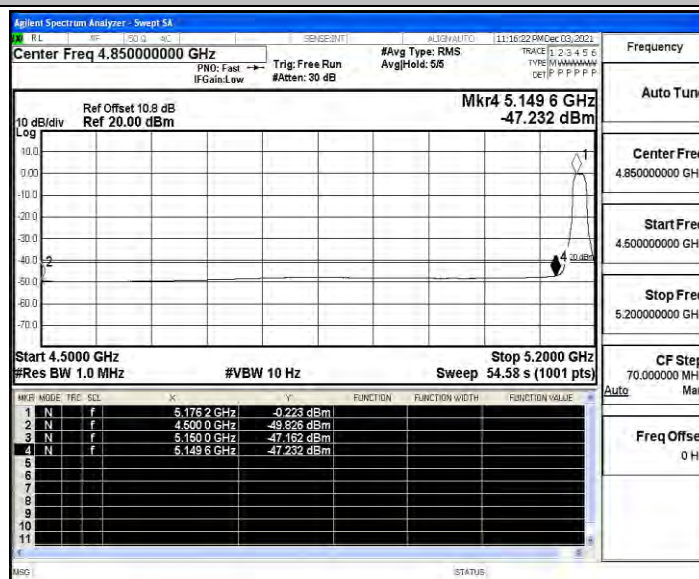
Note:

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.

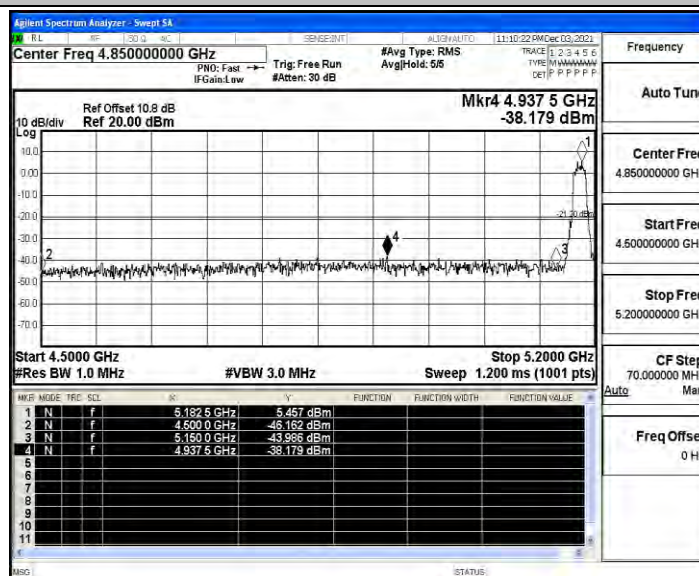


## Test Graphs

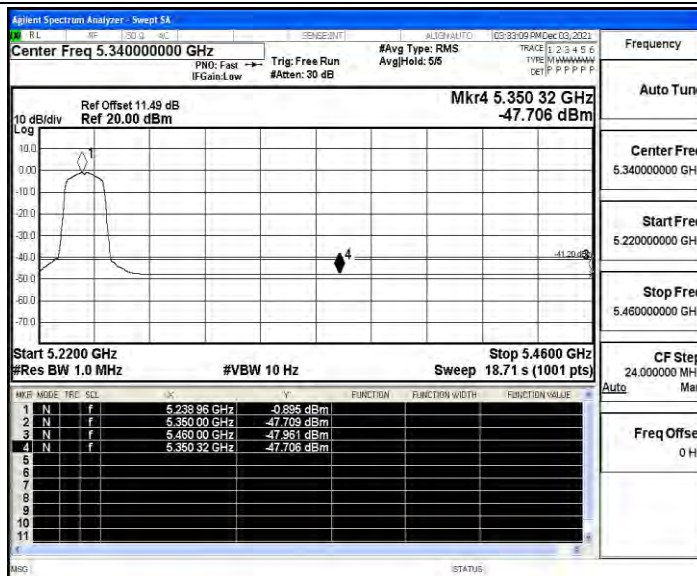
11A\_Ant0\_Low\_5180\_AV



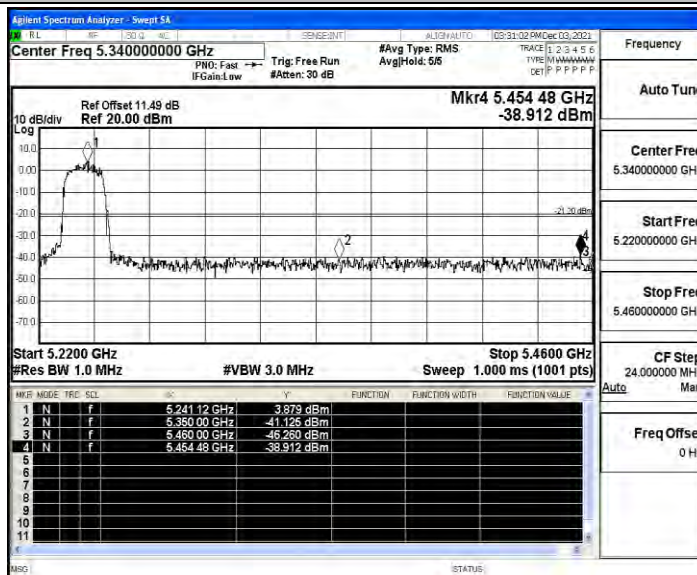
11A\_Ant0\_Low\_5180\_Peak



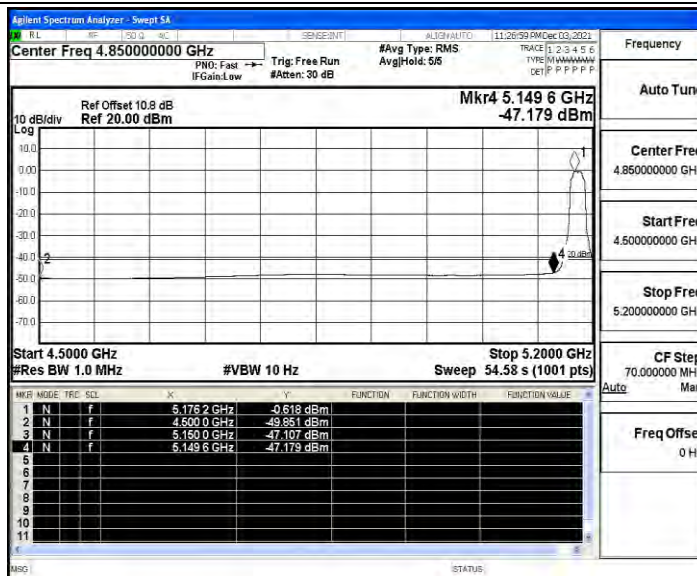
11A\_Ant0\_High\_5240\_AV



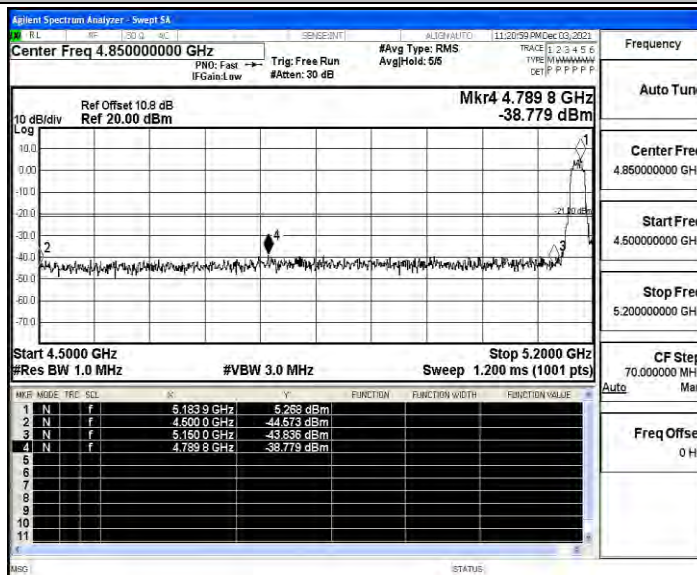
11A\_Ant0\_High\_5240\_Peak



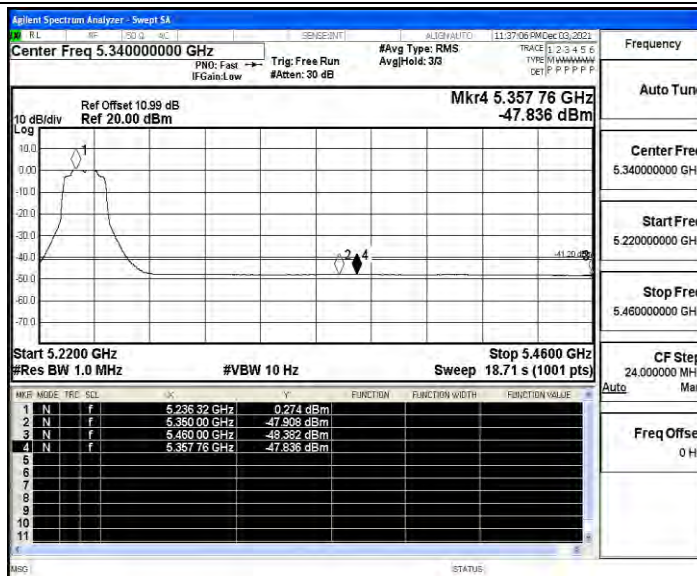
11N20SISO\_Ant0\_Low\_5180\_AV



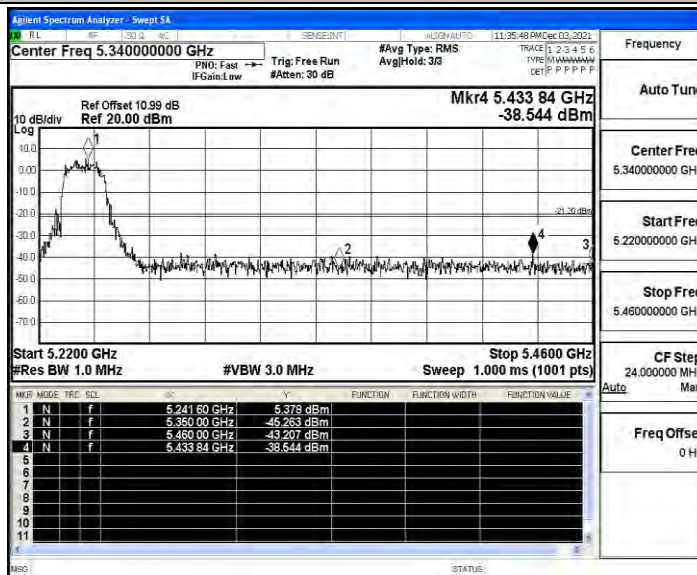
11N20SISO\_Ant0\_Low\_5180\_Peak



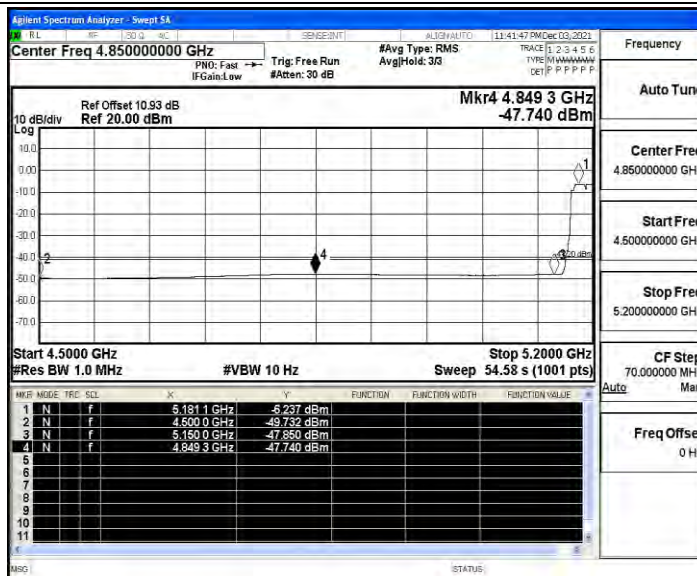
11N20SISO\_Ant0\_High\_5240\_AV



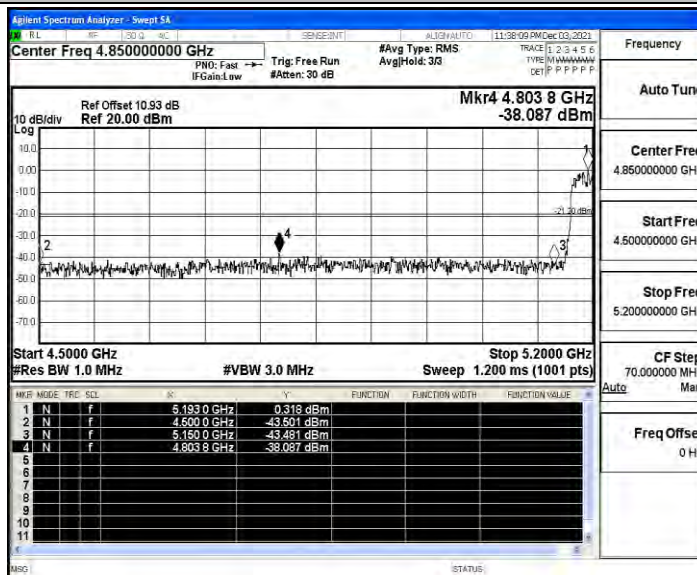
11N20SISO\_Ant0\_High\_5240\_Peak



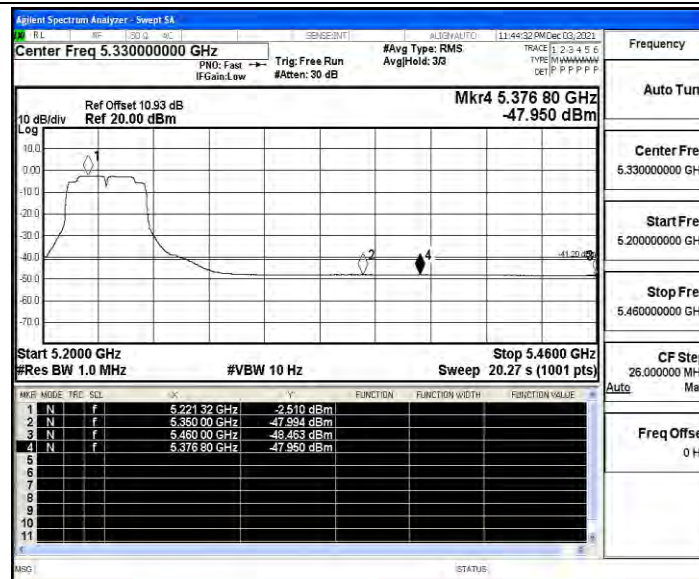
11N40SISO\_Ant0\_Low\_5190\_AV



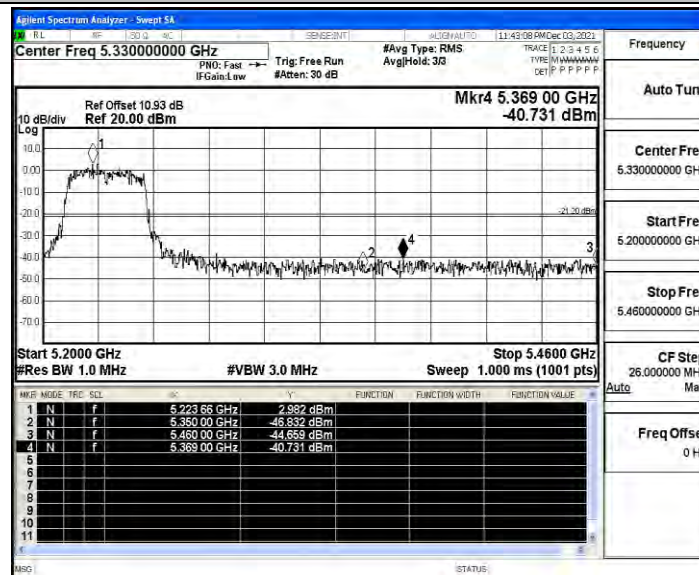
11N40SISO\_Ant0\_Low\_5190\_Peak



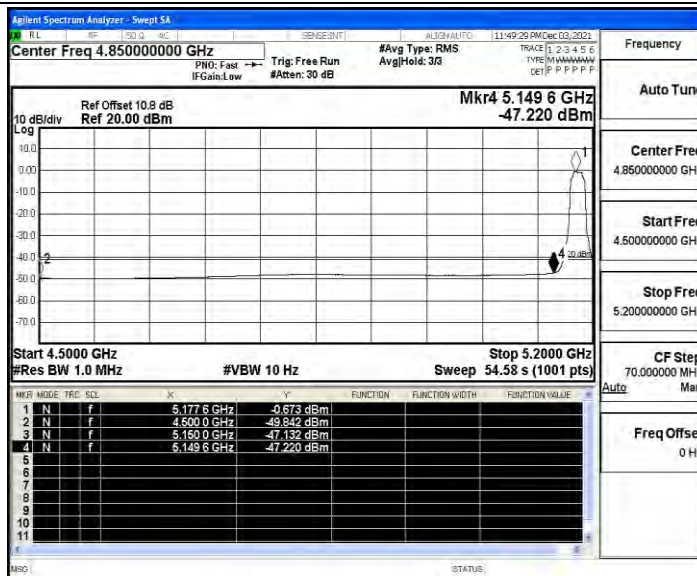
11N40SISO\_Ant0\_High\_5230\_AV



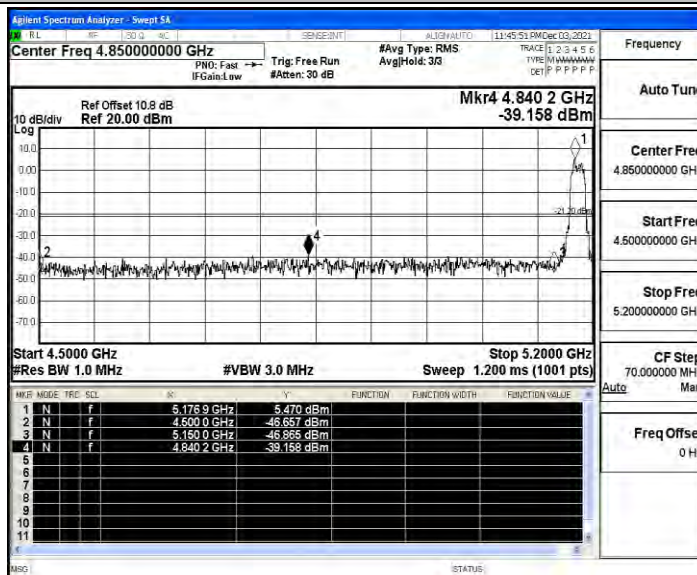
11N40SISO\_Ant0\_High\_5230\_Peak



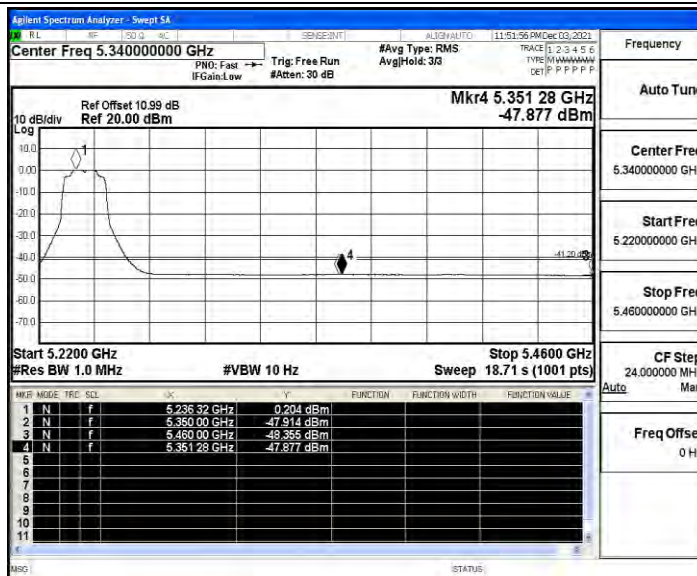
11AC20SISO\_Ant0\_Low\_5180\_AV



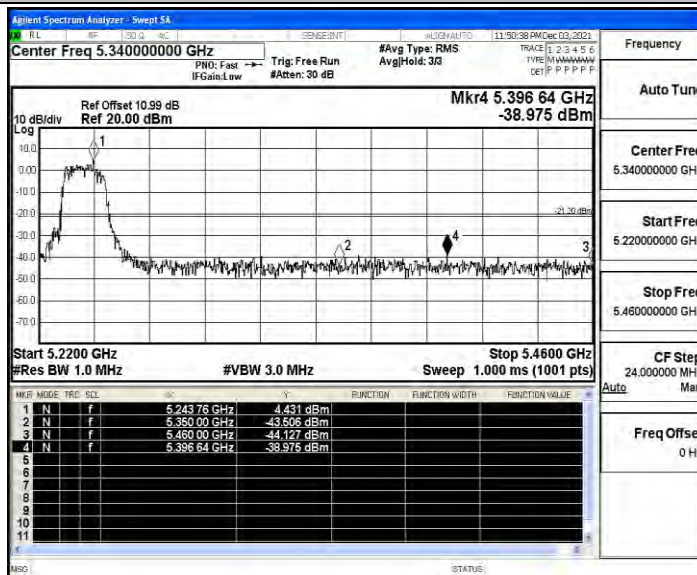
11AC20SISO\_Ant0\_Low\_5180\_Peak



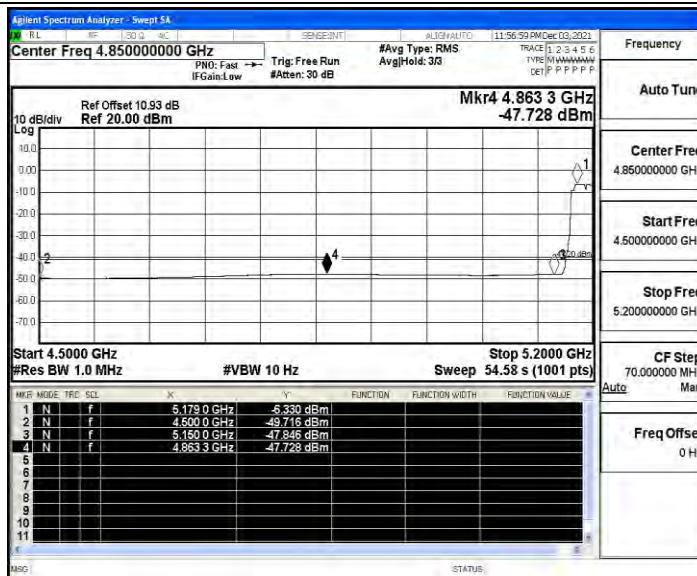
11AC20SISO\_Ant0\_High\_5240\_AV



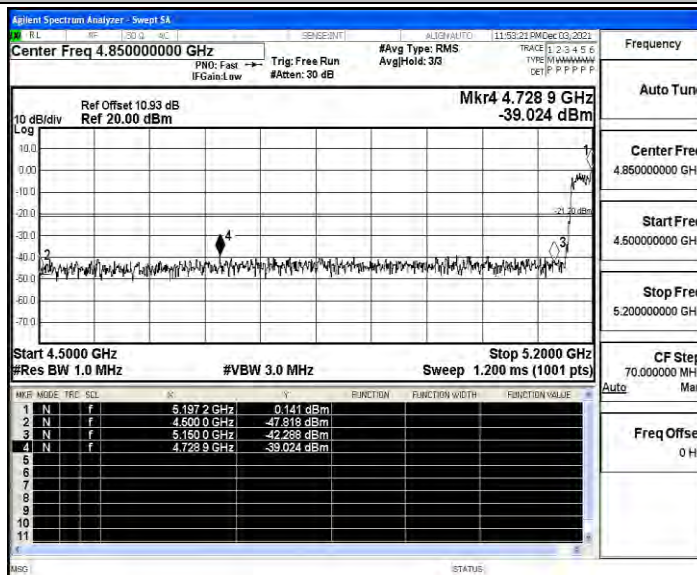
11AC20SISO\_Ant0\_High\_5240\_Peak



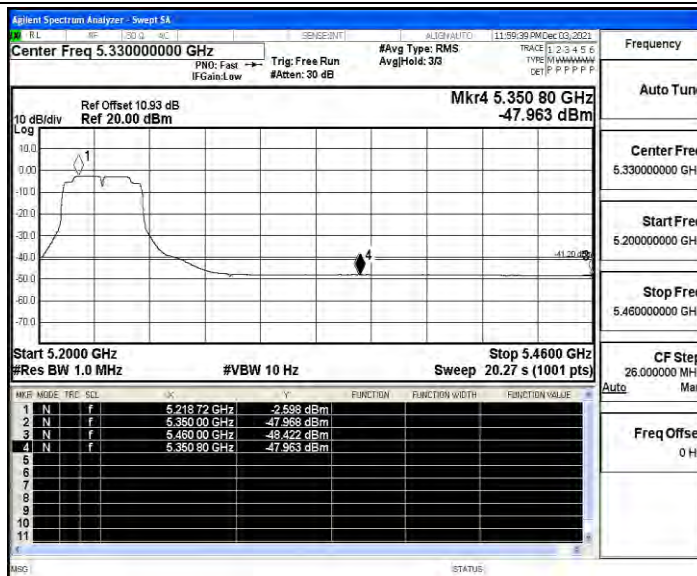
11AC40SISO\_Ant0\_Low\_5190\_AV



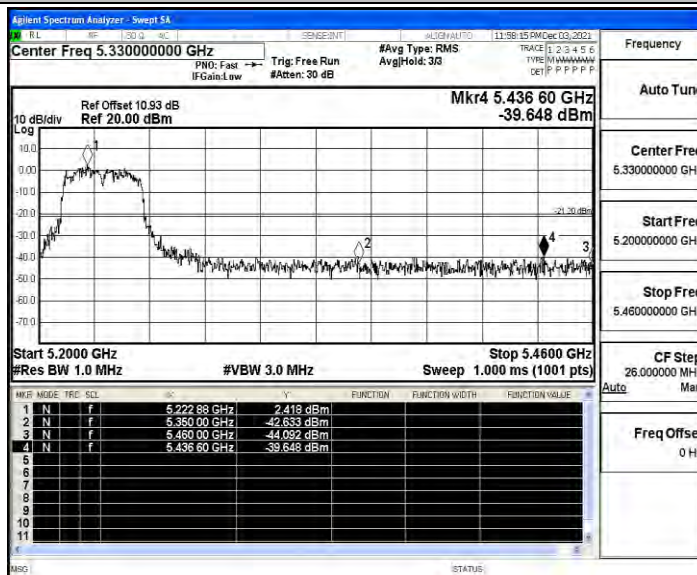
11AC40SISO\_Ant0\_Low\_5190\_Peak



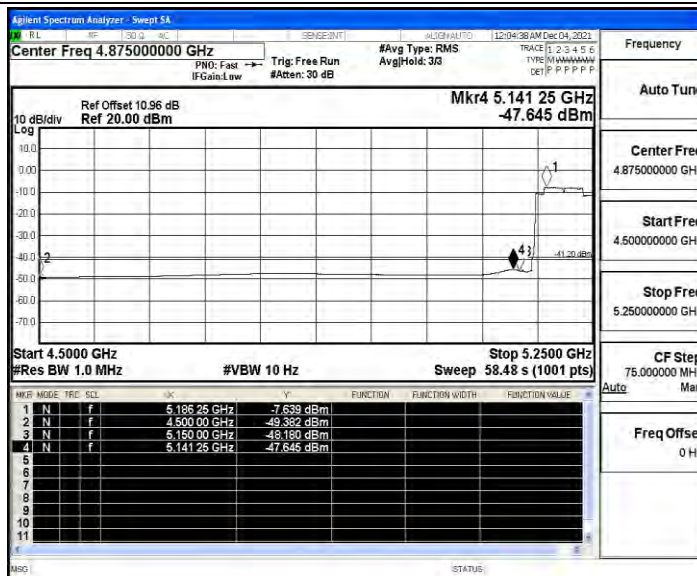
11AC40SISO\_Ant0\_High\_5230\_AV



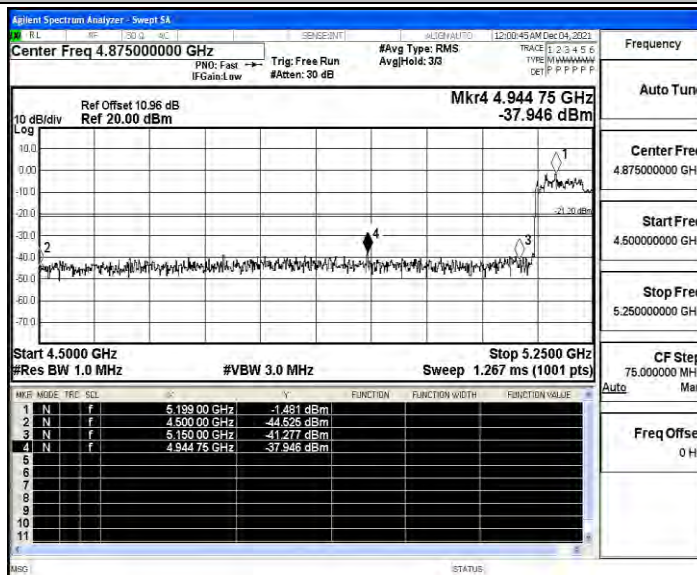
11AC40SISO\_Ant0\_High\_5230\_Peak



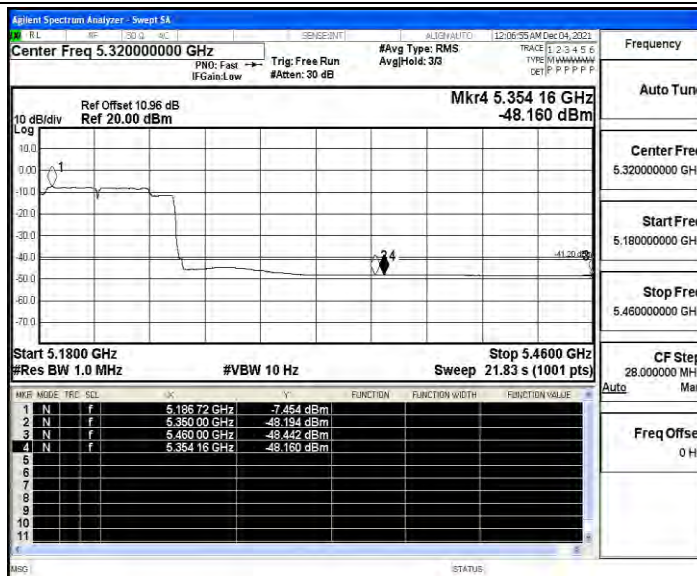
11AC80SISO\_Ant0\_Low\_5210\_AV



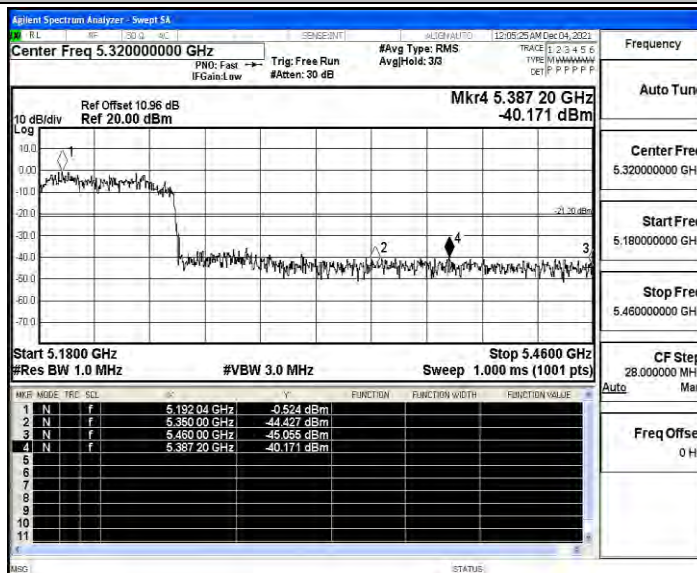
11AC80SISO\_Ant0\_Low\_5210\_Peak



11AC80SISO\_Ant0\_High\_5210\_AV



11AC80SISO\_Ant0\_High\_5210\_Peak





| Test Mode   | Antenna | Channel | Detector | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|-------------|---------|---------|----------|-------------|--------------|-------------|-----------------|----------------|---------|
| 11A         | Ant1    | 5180    | AV       | 4500.000    | -49.39       | ≤-41.20     | 45.81           | ≤54            | PASS    |
|             |         |         | AV       | 5148.900    | -47.49       | ≤-41.20     | 47.71           | ≤54            | PASS    |
|             |         |         | AV       | 5150.000    | -47.48       | ≤-41.20     | 47.72           | ≤54            | PASS    |
|             |         |         | Peak     | 4500.000    | -45.57       | ≤-21.20     | 49.63           | ≤74            | PASS    |
|             |         |         | Peak     | 4934.700    | -37.8        | ≤-21.20     | 57.40           | ≤74            | PASS    |
|             |         |         | Peak     | 5150.000    | -43.86       | ≤-21.20     | 51.34           | ≤74            | PASS    |
|             |         | 5240    | AV       | 5350.000    | -47.72       | ≤-41.20     | 47.48           | ≤54            | PASS    |
|             |         |         | AV       | 5355.120    | -47.72       | ≤-41.20     | 47.48           | ≤54            | PASS    |
|             |         |         | AV       | 5460.000    | -47.97       | ≤-41.20     | 47.23           | ≤54            | PASS    |
|             |         |         | Peak     | 5350.000    | -43.9        | ≤-21.20     | 51.30           | ≤74            | PASS    |
|             |         |         | Peak     | 5400.960    | -38.39       | ≤-21.20     | 56.81           | ≤74            | PASS    |
|             |         |         | Peak     | 5460.000    | -45.58       | ≤-21.20     | 49.62           | ≤74            | PASS    |
| 11N20 SISO  | Ant1    | 5180    | AV       | 4500.000    | -49.37       | ≤-41.20     | 45.83           | ≤54            | PASS    |
|             |         |         | AV       | 5149.600    | -47.49       | ≤-41.20     | 47.71           | ≤54            | PASS    |
|             |         |         | AV       | 5150.000    | -47.46       | ≤-41.20     | 47.74           | ≤54            | PASS    |
|             |         |         | Peak     | 4500.000    | -43.23       | ≤-21.20     | 51.97           | ≤74            | PASS    |
|             |         |         | Peak     | 5144.700    | -37.58       | ≤-21.20     | 57.62           | ≤74            | PASS    |
|             |         |         | Peak     | 5150.000    | -41.48       | ≤-21.20     | 53.72           | ≤74            | PASS    |
|             |         | 5240    | AV       | 5350.000    | -47.67       | ≤-41.20     | 47.53           | ≤54            | PASS    |
|             |         |         | AV       | 5350.560    | -47.61       | ≤-41.20     | 47.59           | ≤54            | PASS    |
|             |         |         | AV       | 5460.000    | -47.98       | ≤-41.20     | 47.22           | ≤54            | PASS    |
|             |         |         | Peak     | 5350.000    | -41.2        | ≤-21.20     | 54.00           | ≤74            | PASS    |
|             |         |         | Peak     | 5403.840    | -38.29       | ≤-21.20     | 56.91           | ≤74            | PASS    |
|             |         |         | Peak     | 5460.000    | -45.09       | ≤-21.20     | 50.11           | ≤74            | PASS    |
| 11N40 SISO  | Ant1    | 5190    | AV       | 4500.000    | -49.25       | ≤-41.20     | 45.95           | ≤54            | PASS    |
|             |         |         | AV       | 5149.600    | -46.76       | ≤-41.20     | 48.47           | ≤54            | PASS    |
|             |         |         | AV       | 5150.000    | -46.6        | ≤-41.20     | 48.63           | ≤54            | PASS    |
|             |         |         | Peak     | 4500.000    | -43.89       | ≤-21.20     | 51.31           | ≤74            | PASS    |
|             |         |         | Peak     | 5133.500    | -38.68       | ≤-21.20     | 56.52           | ≤74            | PASS    |
|             |         |         | Peak     | 5150.000    | -41.6        | ≤-21.20     | 53.60           | ≤74            | PASS    |
|             |         | 5230    | AV       | 5350.000    | -47.84       | ≤-41.20     | 47.36           | ≤54            | PASS    |
|             |         |         | AV       | 5353.140    | -47.8        | ≤-41.20     | 47.40           | ≤54            | PASS    |
|             |         |         | AV       | 5460.000    | -48.06       | ≤-41.20     | 47.14           | ≤54            | PASS    |
|             |         |         | Peak     | 5350.000    | -41.93       | ≤-21.20     | 53.27           | ≤74            | PASS    |
|             |         |         | Peak     | 5364.580    | -38.85       | ≤-21.20     | 56.35           | ≤74            | PASS    |
|             |         |         | Peak     | 5460.000    | -39.91       | ≤-21.20     | 55.29           | ≤74            | PASS    |
| 11AC20 SISO | Ant1    | 5180    | AV       | 4500.000    | -49.41       | ≤-41.20     | 45.79           | ≤54            | PASS    |
|             |         |         | AV       | 5148.900    | -47.49       | ≤-41.20     | 47.71           | ≤54            | PASS    |
|             |         |         | AV       | 5150.000    | -47.45       | ≤-41.20     | 47.75           | ≤54            | PASS    |
|             |         |         | Peak     | 4500.000    | -42.67       | ≤-21.20     | 52.53           | ≤74            | PASS    |

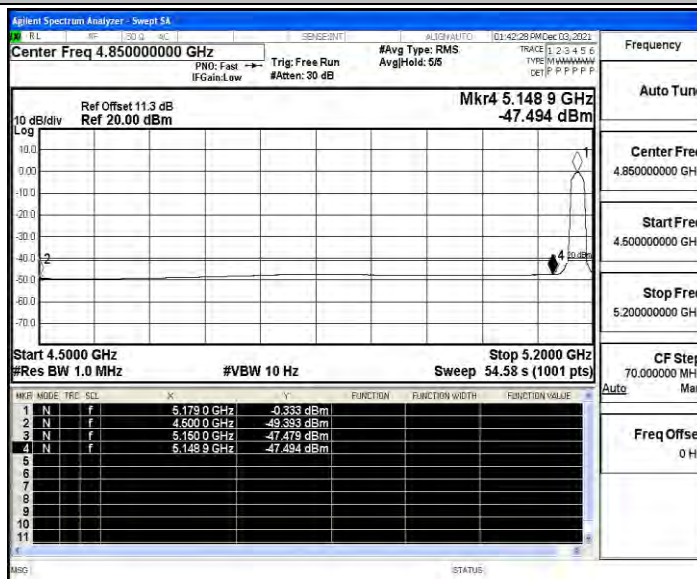


|                |      |      |      |          |        |         |       |     |      |
|----------------|------|------|------|----------|--------|---------|-------|-----|------|
|                |      | 5240 | Peak | 5053.700 | -38.23 | ≤-21.20 | 56.97 | ≤74 | PASS |
|                |      |      | Peak | 5150.000 | -40.84 | ≤-21.20 | 54.36 | ≤74 | PASS |
|                |      |      | AV   | 5350.000 | -47.63 | ≤-41.20 | 47.57 | ≤54 | PASS |
|                |      |      | AV   | 5350.080 | -47.63 | ≤-41.20 | 47.57 | ≤54 | PASS |
|                |      |      | AV   | 5460.000 | -47.98 | ≤-41.20 | 47.22 | ≤54 | PASS |
|                |      |      | Peak | 5350.000 | -44.43 | ≤-21.20 | 50.77 | ≤74 | PASS |
|                |      |      | Peak | 5438.400 | -38.88 | ≤-21.20 | 56.32 | ≤74 | PASS |
|                |      |      | Peak | 5460.000 | -41.21 | ≤-21.20 | 53.99 | ≤74 | PASS |
| 11AC40<br>SISO | Ant1 | 5190 | AV   | 4500.000 | -49.24 | ≤-41.20 | 45.96 | ≤54 | PASS |
|                |      |      | AV   | 5149.600 | -46.78 | ≤-41.20 | 48.42 | ≤54 | PASS |
|                |      |      | AV   | 5150.000 | -46.56 | ≤-41.20 | 48.64 | ≤54 | PASS |
|                |      |      | Peak | 4500.000 | -46.59 | ≤-21.20 | 48.61 | ≤74 | PASS |
|                |      |      | Peak | 5148.200 | -37.31 | ≤-21.20 | 57.89 | ≤74 | PASS |
|                |      |      | Peak | 5150.000 | -39.76 | ≤-21.20 | 55.44 | ≤74 | PASS |
|                |      | 5230 | AV   | 5350.000 | -47.83 | ≤-41.20 | 47.37 | ≤54 | PASS |
|                |      |      | AV   | 5359.120 | -47.81 | ≤-41.20 | 47.39 | ≤54 | PASS |
|                |      |      | AV   | 5460.000 | -48.06 | ≤-41.20 | 47.14 | ≤54 | PASS |
|                |      |      | Peak | 5350.000 | -43.48 | ≤-21.20 | 51.72 | ≤74 | PASS |
|                |      |      | Peak | 5398.640 | -39.42 | ≤-21.20 | 55.78 | ≤74 | PASS |
|                |      |      | Peak | 5460.000 | -42.8  | ≤-21.20 | 52.40 | ≤74 | PASS |
| 11AC80<br>SISO | Ant1 | 5210 | AV   | 4500.000 | -49.23 | ≤-41.20 | 45.97 | ≤54 | PASS |
|                |      |      | AV   | 5149.500 | -46.23 | ≤-41.20 | 48.97 | ≤54 | PASS |
|                |      |      | AV   | 5150.000 | -46.23 | ≤-41.20 | 48.97 | ≤54 | PASS |
|                |      |      | Peak | 4500.000 | -44.01 | ≤-21.20 | 51.19 | ≤74 | PASS |
|                |      |      | Peak | 5135.250 | -34.31 | ≤-21.20 | 60.89 | ≤74 | PASS |
|                |      |      | Peak | 5150.000 | -38.57 | ≤-21.20 | 56.63 | ≤74 | PASS |
|                |      | 5210 | AV   | 5350.000 | -47.83 | ≤-41.20 | 47.37 | ≤54 | PASS |
|                |      |      | AV   | 5352.480 | -47.81 | ≤-41.20 | 47.39 | ≤54 | PASS |
|                |      |      | AV   | 5460.000 | -48.02 | ≤-41.20 | 47.18 | ≤54 | PASS |
|                |      |      | Peak | 5350.000 | -43.13 | ≤-21.20 | 52.07 | ≤74 | PASS |
|                |      |      | Peak | 5441.800 | -39.13 | ≤-21.20 | 56.07 | ≤74 | PASS |
|                |      |      | Peak | 5460.000 | -41.91 | ≤-21.20 | 53.29 | ≤74 | PASS |

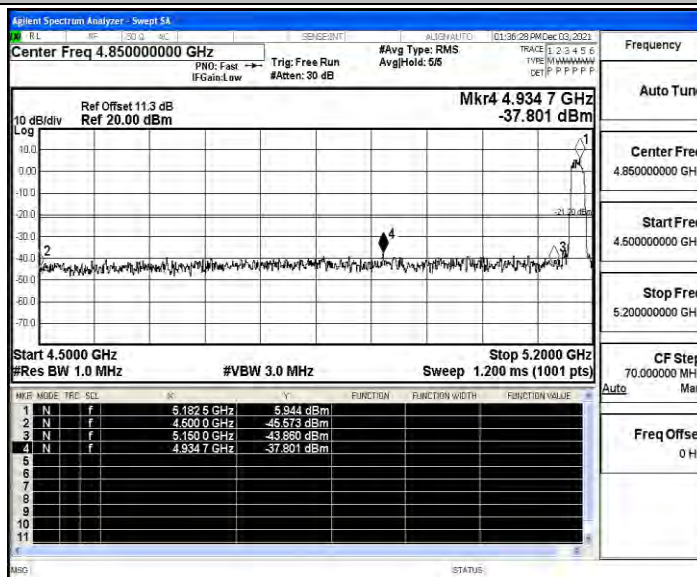


## Test Graphs

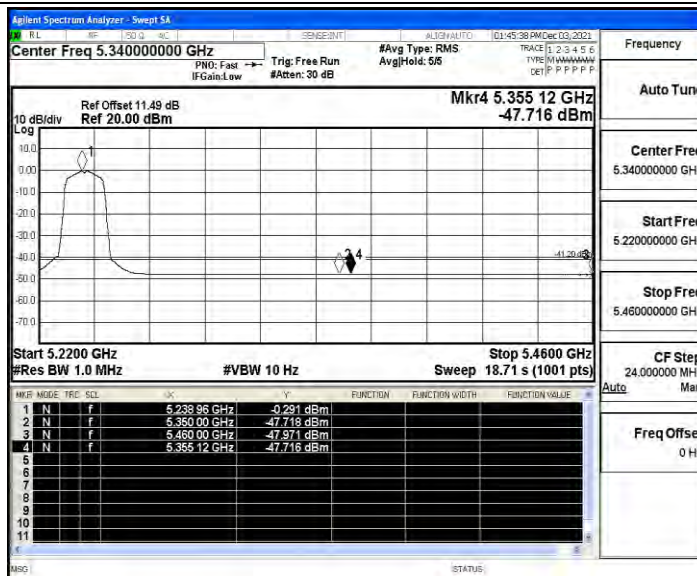
11A\_Ant1\_Low\_5180\_AV



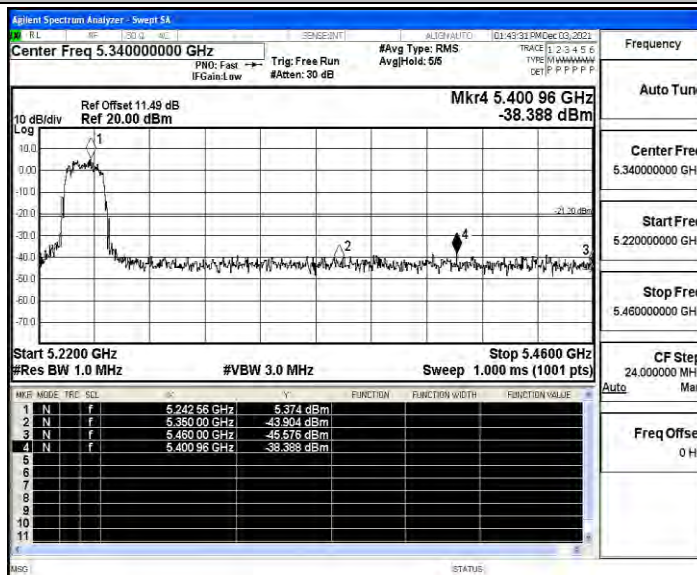
11A\_Ant1\_Low\_5180\_Peak



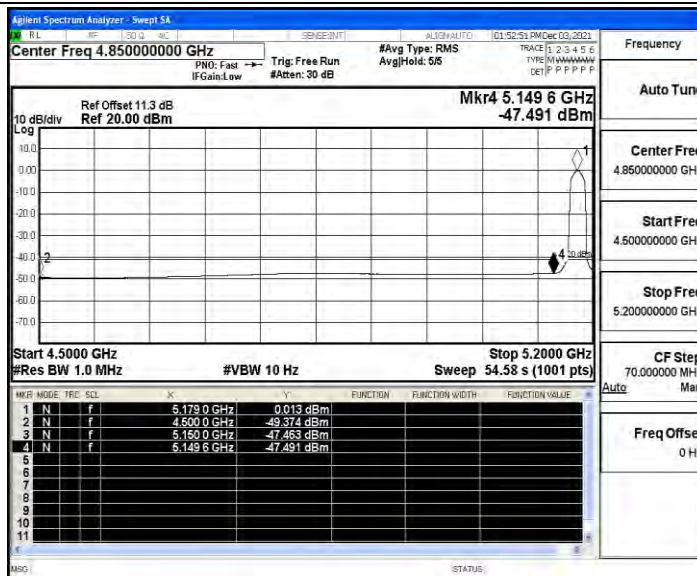
11A\_Ant1\_High\_5240\_AV



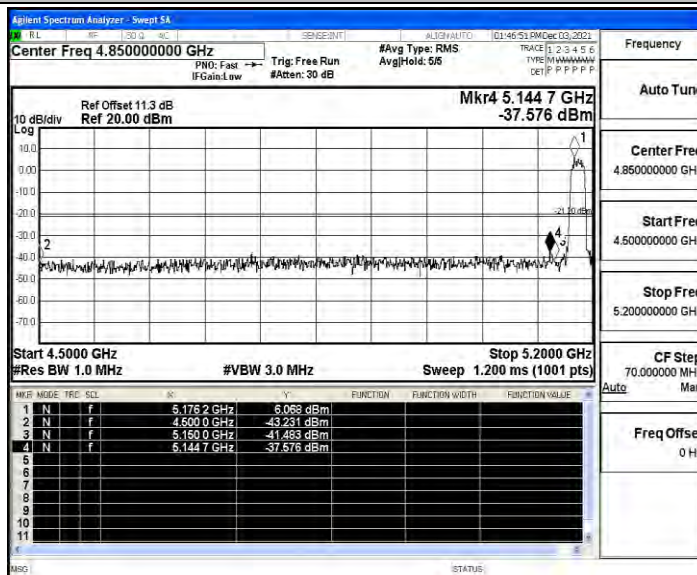
11A\_Ant1\_High\_5240\_Peak



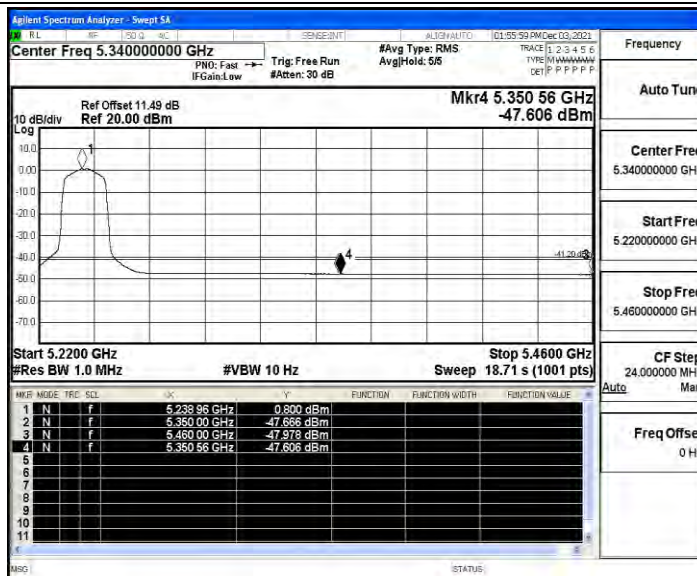
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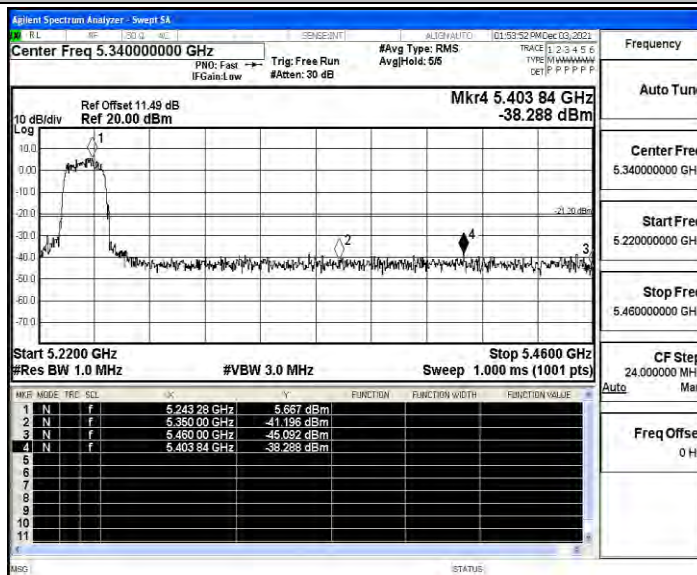
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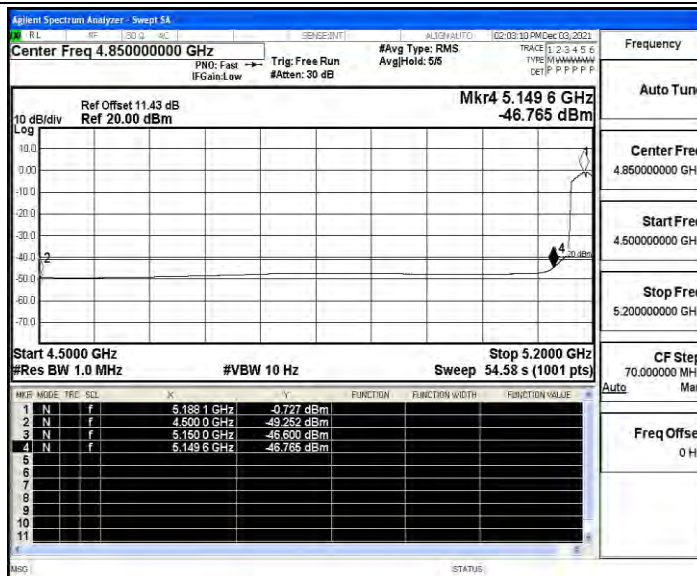
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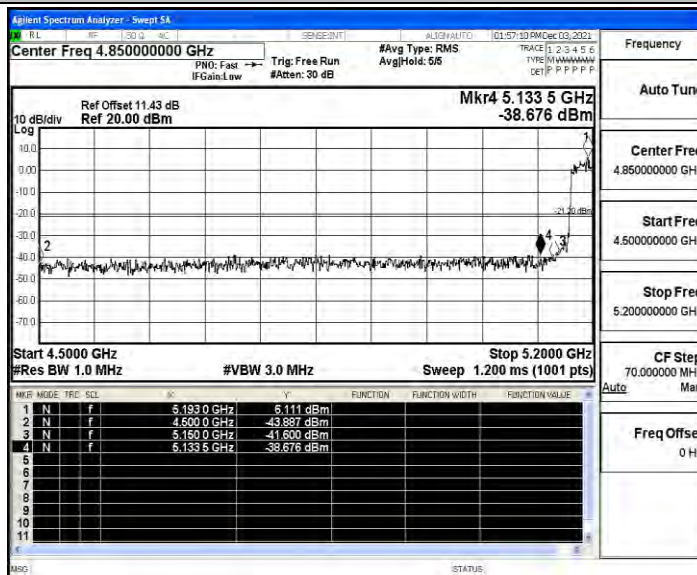
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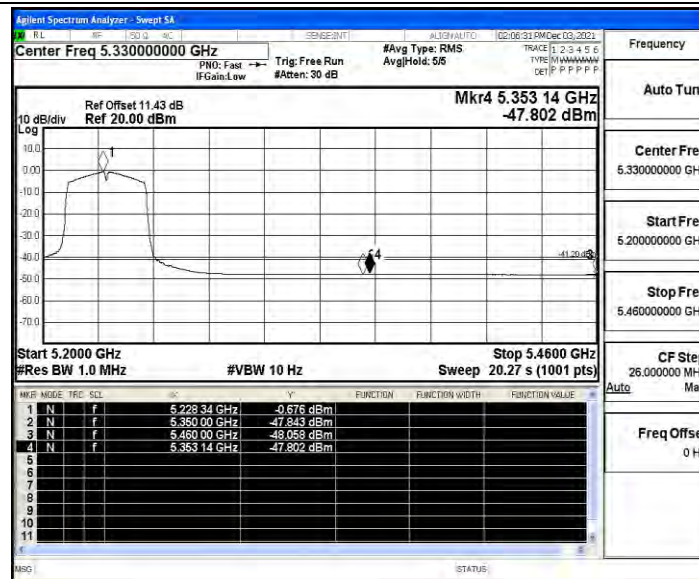
11N40SISO\_Ant1\_Low\_5190\_AV



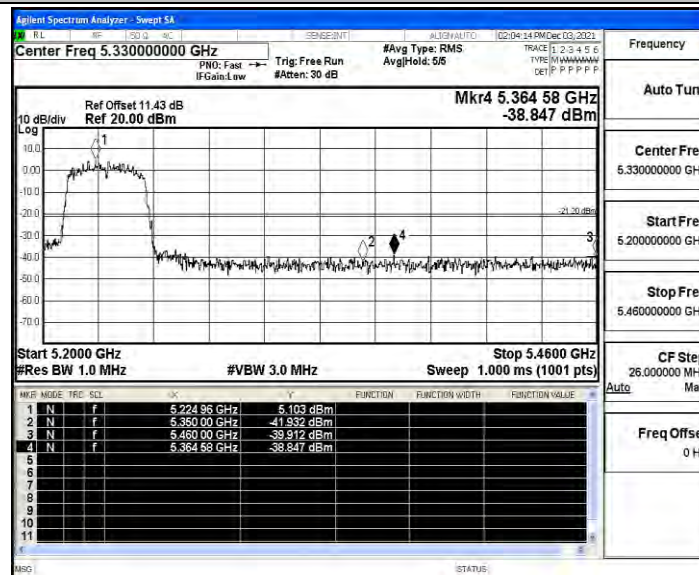
11N40SISO\_Ant1\_Low\_5190\_Peak



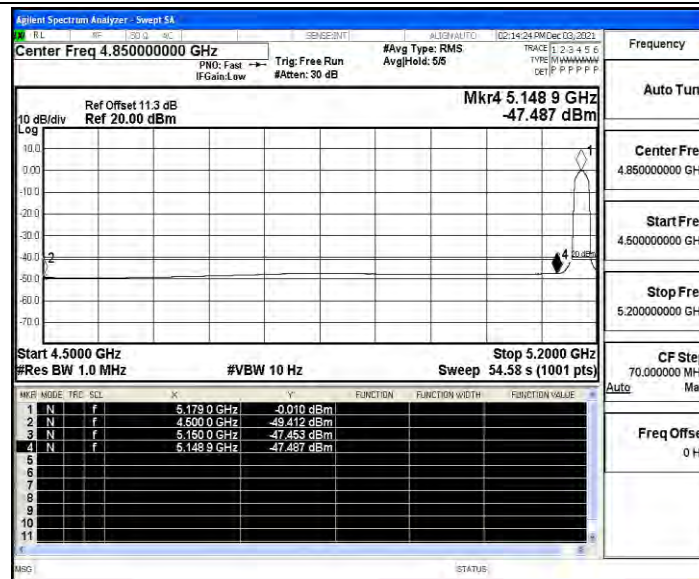
11N40SISO\_Ant1\_High\_5230\_AV



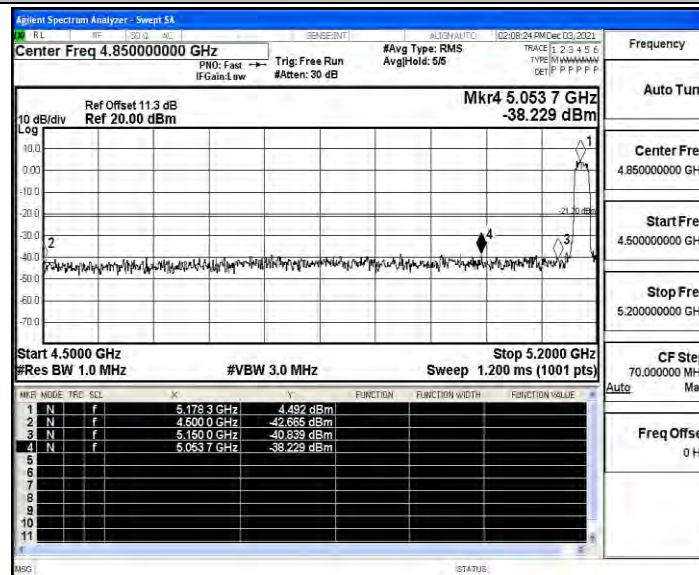
11N40SISO\_Ant1\_High\_5230\_Peak



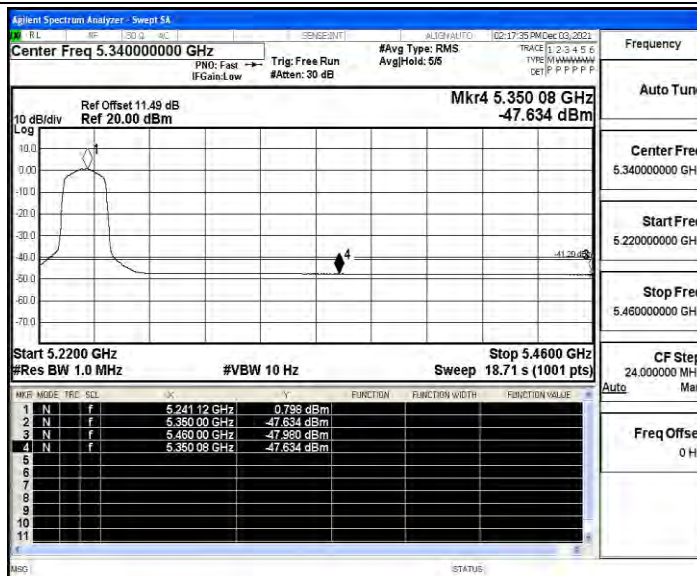
11AC20SISO\_Ant1\_Low\_5180\_AV



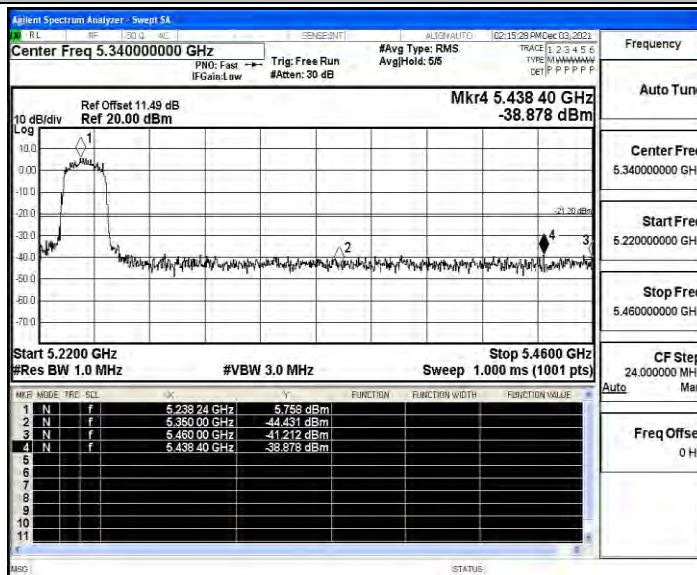
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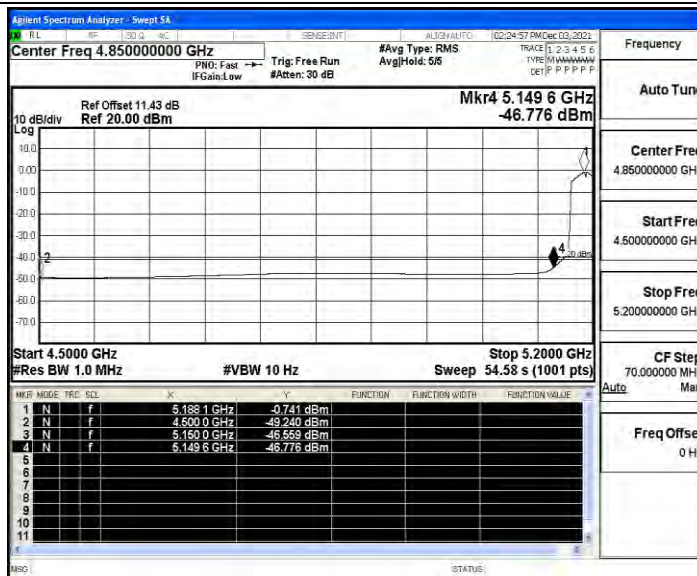
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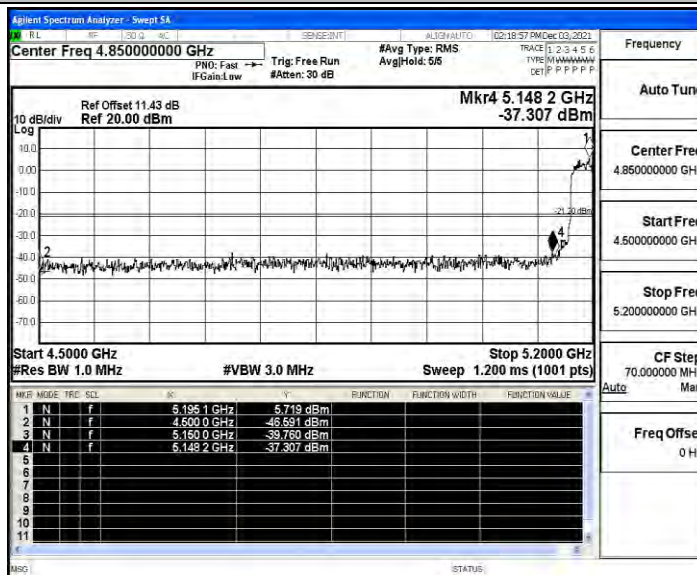
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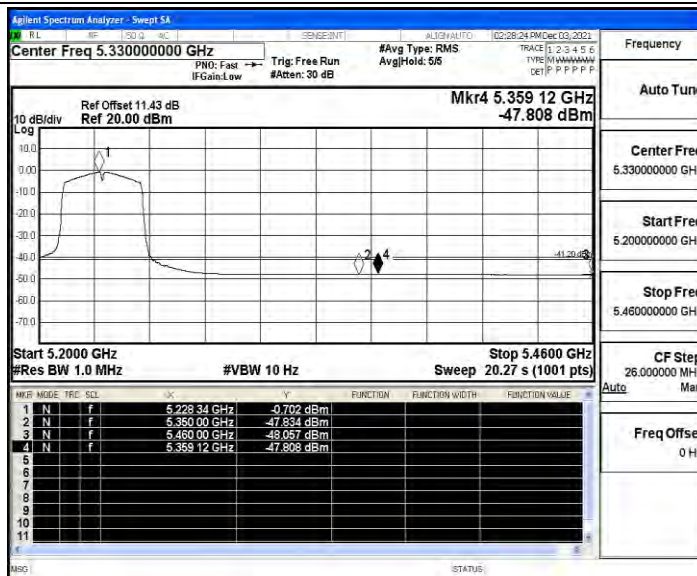
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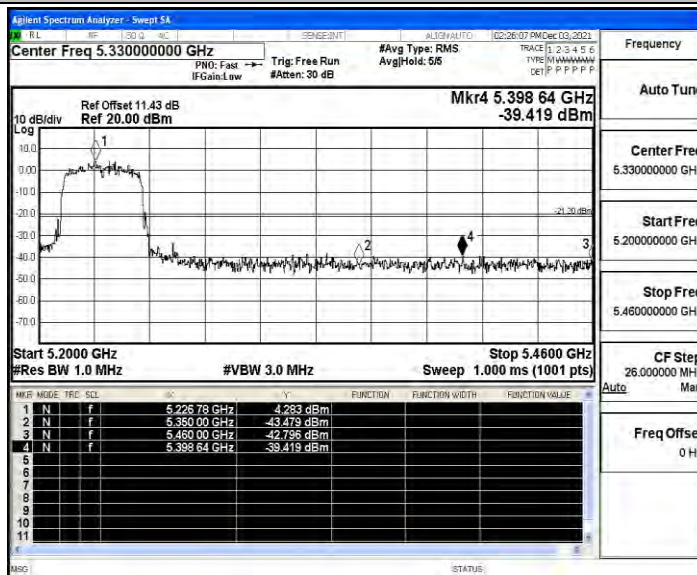
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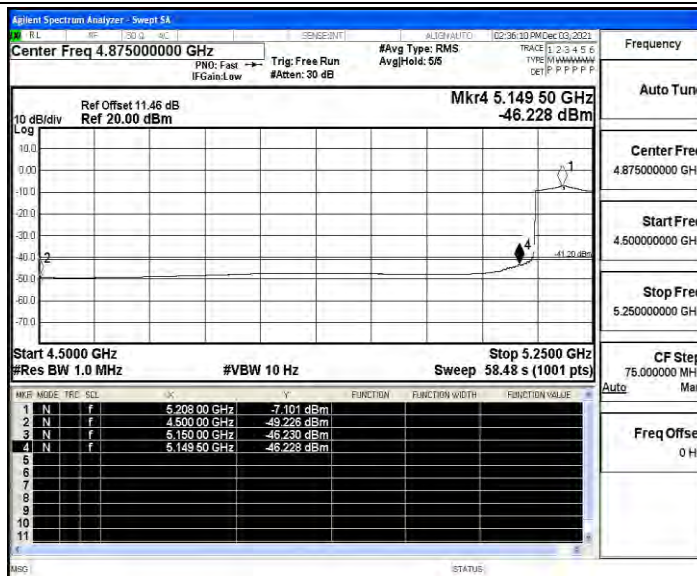
11AC40SISO\_Ant1\_High\_5230\_AV



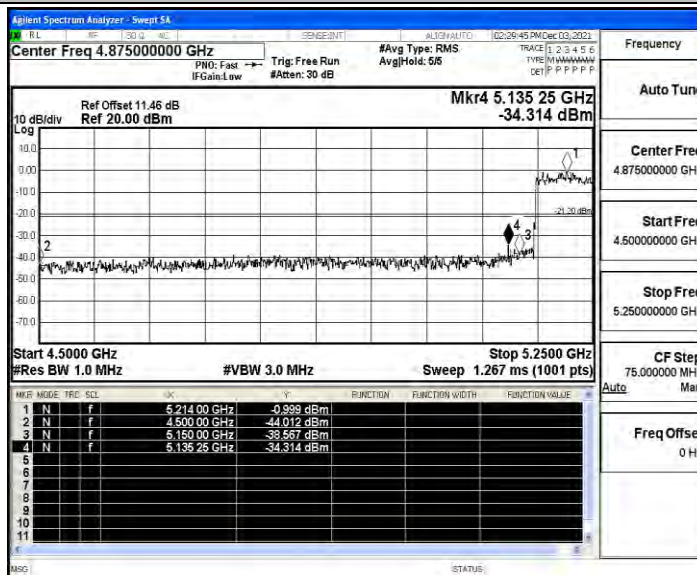
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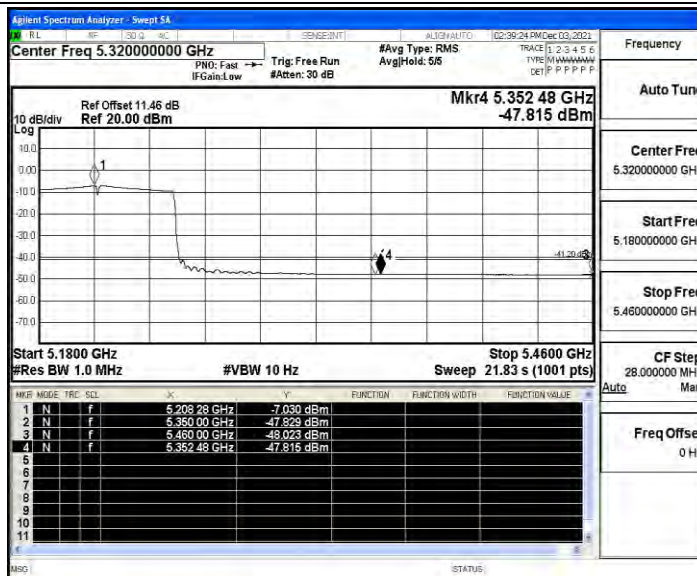
11AC80SISO\_Ant1\_Low\_5210\_AV



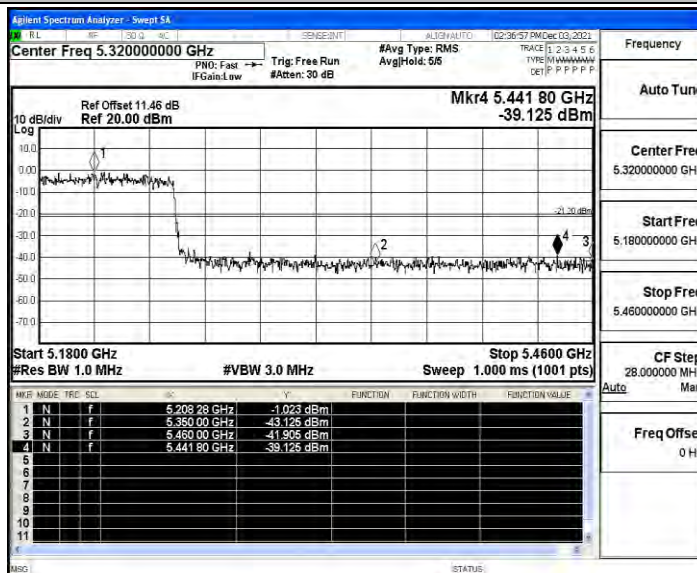
11AC80SISO\_Ant1\_Low\_5210\_Peak



11AC80SISO\_Ant1\_High\_5210\_AV



11AC80SISO\_Ant1\_High\_5210\_Peak





## MIMO

| Test Mode   | Channel | Detector | Freq. [MHz] | Emissions Level (dBm) |        |        | Emissions [dBuV/m] | Limit [dBuV/m] | Verdict |
|-------------|---------|----------|-------------|-----------------------|--------|--------|--------------------|----------------|---------|
|             |         |          |             | Ant0                  | Ant1   | Sum    |                    |                |         |
| 11N20 MIMO  | 5180    | AV       | 4500.000    | -49.85                | -49.37 | -46.59 | 50.64              | ≤54            | PASS    |
|             |         | AV       | 5149.600    | -47.18                | -47.49 | -44.32 | 52.91              | ≤54            | PASS    |
|             |         | AV       | 5150.000    | -47.11                | -47.46 | -44.27 | 52.96              | ≤54            | PASS    |
|             |         | Peak     | 4500.000    | -44.57                | -43.23 | -40.84 | 56.39              | ≤68.2          | PASS    |
|             |         | Peak     | 4789.800    | -38.78                | -37.58 | -35.13 | 62.10              | ≤68.2          | PASS    |
|             |         | Peak     | 5150.000    | -43.84                | -41.48 | -39.49 | 57.74              | ≤68.2          | PASS    |
|             | 5240    | AV       | 5350.000    | -47.91                | -47.67 | -44.78 | 52.45              | ≤54            | PASS    |
|             |         | AV       | 5357.760    | -47.84                | -47.61 | -44.71 | 52.52              | ≤54            | PASS    |
|             |         | AV       | 5460.000    | -48.38                | -47.98 | -45.17 | 52.06              | ≤54            | PASS    |
|             |         | Peak     | 5350.000    | -45.26                | -41.2  | -39.76 | 57.47              | ≤68.2          | PASS    |
|             |         | Peak     | 5433.840    | -38.54                | -38.29 | -35.40 | 61.83              | ≤68.2          | PASS    |
|             |         | Peak     | 5460.000    | -43.21                | -45.09 | -41.04 | 56.19              | ≤68.2          | PASS    |
| 11N40 MIMO  | 5190    | AV       | 4500.000    | -49.73                | -49.25 | -46.47 | 50.76              | ≤54            | PASS    |
|             |         | AV       | 4849.300    | -47.74                | -46.76 | -44.21 | 53.02              | ≤54            | PASS    |
|             |         | AV       | 5150.000    | -47.85                | -46.6  | -44.17 | 53.06              | ≤54            | PASS    |
|             |         | Peak     | 4500.000    | -43.5                 | -43.89 | -40.68 | 56.55              | ≤68.2          | PASS    |
|             |         | Peak     | 4803.800    | -38.09                | -38.68 | -35.36 | 61.87              | ≤68.2          | PASS    |
|             |         | Peak     | 5150.000    | -43.48                | -41.6  | -39.43 | 57.80              | ≤68.2          | PASS    |
|             | 5230    | AV       | 5350.000    | -47.99                | -47.84 | -44.90 | 52.33              | ≤54            | PASS    |
|             |         | AV       | 5376.800    | -47.95                | -47.8  | -44.86 | 52.37              | ≤54            | PASS    |
|             |         | AV       | 5460.000    | -48.46                | -48.06 | -45.25 | 51.98              | ≤54            | PASS    |
|             |         | Peak     | 5350.000    | -46.83                | -41.93 | -40.71 | 56.52              | ≤68.2          | PASS    |
|             |         | Peak     | 5369.000    | -40.73                | -38.85 | -36.68 | 60.55              | ≤68.2          | PASS    |
|             |         | Peak     | 5460.000    | -44.66                | -39.91 | -38.66 | 58.57              | ≤68.2          | PASS    |
| 11AC20 MIMO | 5180    | AV       | 4500.000    | -49.84                | -49.41 | -46.61 | 50.62              | ≤54            | PASS    |
|             |         | AV       | 5149.600    | -47.22                | -47.49 | -44.34 | 52.89              | ≤54            | PASS    |
|             |         | AV       | 5150.000    | -47.13                | -47.45 | -44.28 | 52.95              | ≤54            | PASS    |
|             |         | Peak     | 4500.000    | -46.66                | -42.67 | -41.21 | 56.02              | ≤68.2          | PASS    |
|             |         | Peak     | 4840.200    | -39.16                | -38.23 | -35.66 | 61.57              | ≤68.2          | PASS    |
|             |         | Peak     | 5150.000    | -46.87                | -40.84 | -39.87 | 57.36              | ≤68.2          | PASS    |
|             | 5240    | AV       | 5350.000    | -47.91                | -47.63 | -44.76 | 52.47              | ≤54            | PASS    |
|             |         | AV       | 5351.280    | -47.88                | -47.63 | -44.74 | 52.49              | ≤54            | PASS    |
|             |         | AV       | 5460.000    | -48.36                | -47.98 | -45.16 | 52.07              | ≤54            | PASS    |
|             |         | Peak     | 5350.000    | -43.51                | -44.43 | -40.94 | 56.29              | ≤68.2          | PASS    |
|             |         | Peak     | 5396.640    | -38.97                | -38.88 | -35.91 | 61.32              | ≤68.2          | PASS    |
|             |         | Peak     | 5460.000    | -44.13                | -41.21 | -39.42 | 57.81              | ≤68.2          | PASS    |
| 11AC40 MIMO | 5190    | AV       | 4500.000    | -49.72                | -49.24 | -46.46 | 50.77              | ≤54            | PASS    |
|             |         | AV       | 4863.300    | -47.73                | -48.78 | -45.21 | 52.02              | ≤54            | PASS    |



|                |      |      |          |        |        |        |       |       |      |
|----------------|------|------|----------|--------|--------|--------|-------|-------|------|
|                |      | AV   | 5150.000 | -47.85 | -48.56 | -45.18 | 52.05 | ≤54   | PASS |
|                |      | Peak | 4500.000 | -47.82 | -46.59 | -44.15 | 53.08 | ≤68.2 | PASS |
|                |      | Peak | 4728.900 | -39.02 | -37.31 | -35.07 | 62.16 | ≤68.2 | PASS |
|                |      | Peak | 5150.000 | -42.29 | -39.76 | -37.83 | 59.40 | ≤68.2 | PASS |
|                | 5230 | AV   | 5350.000 | -47.97 | -47.83 | -44.89 | 52.34 | ≤54   | PASS |
|                |      | AV   | 5350.800 | -47.96 | -47.81 | -44.87 | 52.36 | ≤54   | PASS |
|                |      | AV   | 5460.000 | -48.42 | -48.06 | -45.23 | 52.00 | ≤54   | PASS |
|                |      | Peak | 5350.000 | -42.63 | -43.48 | -40.02 | 57.21 | ≤68.2 | PASS |
|                |      | Peak | 5436.600 | -39.65 | -39.42 | -36.52 | 60.71 | ≤68.2 | PASS |
|                |      | Peak | 5460.000 | -44.09 | -42.8  | -40.39 | 56.84 | ≤68.2 | PASS |
| 11AC80<br>MIMO | 5210 | AV   | 4500.000 | -49.38 | -49.23 | -46.29 | 50.94 | ≤54   | PASS |
|                |      | AV   | 5141.250 | -47.65 | -46.23 | -43.87 | 53.36 | ≤54   | PASS |
|                |      | AV   | 5150.000 | -48.18 | -46.23 | -44.09 | 53.14 | ≤54   | PASS |
|                |      | Peak | 4500.000 | -44.53 | -44.01 | -41.25 | 55.98 | ≤68.2 | PASS |
|                |      | Peak | 4944.750 | -37.95 | -34.31 | -32.75 | 64.48 | ≤68.2 | PASS |
|                |      | Peak | 5150.000 | -41.28 | -38.57 | -36.71 | 60.52 | ≤68.2 | PASS |
|                | 5210 | AV   | 5350.000 | -48.19 | -47.83 | -45.00 | 52.23 | ≤54   | PASS |
|                |      | AV   | 5354.160 | -48.16 | -47.81 | -44.97 | 52.26 | ≤54   | PASS |
|                |      | AV   | 5460.000 | -48.44 | -48.02 | -45.21 | 52.02 | ≤54   | PASS |
|                |      | Peak | 5350.000 | -44.43 | -43.13 | -40.72 | 56.51 | ≤68.2 | PASS |
|                |      | Peak | 5387.200 | -40.17 | -39.13 | -36.61 | 60.62 | ≤68.2 | PASS |
|                |      | Peak | 5460.000 | -45.06 | -41.91 | -40.20 | 57.03 | ≤68.2 | PASS |



## D.5 Frequency Stability

### Test Result

| Voltage        |         |         |               |                  |                |                 |             |         |
|----------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode       | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11AC20Si<br>SO | Ant0    | 5180    | NV            | NT               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -5.019305       | 20          | PASS    |
|                |         | 5200    | NV            | NT               | -26000         | -5.004100       | 20          | PASS    |
|                |         |         | LV            | NT               | -27000         | -5.192308       | 20          | PASS    |
|                |         |         | HV            | NT               | -27000         | -5.192308       | 20          | PASS    |
|                |         | 5240    | NV            | NT               | -26000         | -4.961832       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -4.961832       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -4.961832       | 20          | PASS    |
| 11AC40Si<br>SO | Ant0    | 5190    | NV            | NT               | -25000         | -4.816956       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -5.009634       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -5.009634       | 20          | PASS    |
|                |         | 5230    | NV            | NT               | -27000         | -5.162524       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -4.971319       | 20          | PASS    |
|                |         |         | HV            | NT               | -25000         | -4.780115       | 20          | PASS    |
| 11AC80Si<br>SO | Ant0    | 5210    | NV            | NT               | -26000         | -4.990403       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -4.990403       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -4.990403       | 20          | PASS    |

| Temperature    |         |         |               |                  |                |                 |             |         |
|----------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode       | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11AC20Si<br>SO | Ant0    | 5180    | NV            | -30              | -25000         | -4.826255       | 20          | PASS    |
|                |         |         | NV            | -20              | -25000         | -4.826255       | 20          | PASS    |
|                |         |         | NV            | -10              | -25000         | -4.826255       | 20          | PASS    |
|                |         |         | NV            | 0                | -25000         | -4.826255       | 20          | PASS    |
|                |         |         | NV            | 10               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | 20               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | 30               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | 40               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | 50               | -26000         | -5.019305       | 20          | PASS    |
|                |         | 5200    | NV            | -30              | -27000         | -5.192308       | 20          | PASS    |
|                |         |         | NV            | -20              | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | -10              | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 0                | -25000         | -4.807692       | 20          | PASS    |
|                |         |         | NV            | 10               | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 20               | -26000         | -5              | 20          | PASS    |



|                |      |      |    |     |        |           |    |      |
|----------------|------|------|----|-----|--------|-----------|----|------|
|                |      |      | NV | 20  | -27000 | -5.192308 | 20 | PASS |
|                |      |      | NV | 30  | -26000 | -5        | 20 | PASS |
|                |      |      | NV | 40  | -27000 | -5.192308 | 20 | PASS |
|                |      |      | NV | 50  | -26000 | -5        | 20 | PASS |
|                |      | 5240 | NV | -30 | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | -20 | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | -10 | -27000 | -5.152672 | 20 | PASS |
|                |      |      | NV | 0   | -27000 | -5.152672 | 20 | PASS |
|                |      |      | NV | 10  | -27000 | -5.152672 | 20 | PASS |
|                |      |      | NV | 20  | -27000 | -5.152672 | 20 | PASS |
|                |      |      | NV | 30  | -27000 | -5.152672 | 20 | PASS |
|                |      |      | NV | 40  | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 50  | -26000 | -4.961832 | 20 | PASS |
|                |      |      |    |     |        |           |    |      |
| 11AC40SI<br>SO | Ant0 | 5190 | NV | -30 | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | -20 | -26000 | -5.009634 | 20 | PASS |
|                |      |      | NV | -10 | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 0   | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 10  | -24000 | -4.624277 | 20 | PASS |
|                |      |      | NV | 20  | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 30  | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 40  | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 50  | -25000 | -4.816956 | 20 | PASS |
|                |      | 5230 | NV | -30 | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | -20 | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | -10 | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 0   | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 10  | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 20  | -26000 | -4.971319 | 20 | PASS |
|                |      |      | NV | 30  | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 40  | -26000 | -4.971319 | 20 | PASS |
|                |      |      | NV | 50  | -26000 | -4.971319 | 20 | PASS |
| 11AC80SI<br>SO | Ant0 | 5210 | NV | -30 | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | -20 | -25000 | -4.798464 | 20 | PASS |
|                |      |      | NV | -10 | -25000 | -4.798464 | 20 | PASS |
|                |      |      | NV | 0   | -25000 | -4.798464 | 20 | PASS |
|                |      |      | NV | 10  | -25000 | -4.798464 | 20 | PASS |
|                |      |      | NV | 20  | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | 30  | -27000 | -5.182342 | 20 | PASS |
|                |      |      | NV | 40  | -27000 | -5.182342 | 20 | PASS |
|                |      |      | NV | 50  | -27000 | -5.182342 | 20 | PASS |
|                |      |      |    |     |        |           |    |      |



| Voltage        |         |         |               |                  |                |                 |             |         |
|----------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode       | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11AC20SI<br>SO | Ant1    | 5180    | NV            | NT               | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | LV            | NT               | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | HV            | NT               | -27000         | -5.212355       | 20          | PASS    |
|                |         | 5200    | NV            | NT               | -28000         | -5.384615       | 20          | PASS    |
|                |         |         | LV            | NT               | -28000         | -5.384615       | 20          | PASS    |
|                |         |         | HV            | NT               | -27000         | -5.192308       | 20          | PASS    |
|                |         | 5240    | NV            | NT               | -27000         | -5.152672       | 20          | PASS    |
|                |         |         | LV            | NT               | -27000         | -5.152672       | 20          | PASS    |
|                |         |         | HV            | NT               | -27000         | -5.152672       | 20          | PASS    |
| 11AC40SI<br>SO | Ant1    | 5190    | NV            | NT               | -27000         | -5.202312       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -5.009634       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -5.009634       | 20          | PASS    |
|                |         | 5230    | NV            | NT               | -26000         | -4.971319       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -4.971319       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -4.971319       | 20          | PASS    |
| 11AC80SI<br>SO | Ant1    | 5210    | NV            | NT               | -26000         | -4.990403       | 20          | PASS    |
|                |         |         | LV            | NT               | -26000         | -4.990403       | 20          | PASS    |
|                |         |         | HV            | NT               | -26000         | -4.990403       | 20          | PASS    |

| Temperature    |         |         |               |                  |                |                 |             |         |
|----------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode       | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11AC20SI<br>SO | Ant1    | 5180    | NV            | -30              | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | NV            | -20              | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | NV            | -10              | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | NV            | 0                | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | NV            | 10               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | 20               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | 30               | -27000         | -5.212355       | 20          | PASS    |
|                |         |         | NV            | 40               | -26000         | -5.019305       | 20          | PASS    |
|                |         | 5200    | NV            | 50               | -26000         | -5.019305       | 20          | PASS    |
|                |         |         | NV            | -30              | -27000         | -5.192308       | 20          | PASS    |
|                |         |         | NV            | -20              | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | -10              | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 0                | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 10               | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 20               | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 30               | -26000         | -5              | 20          | PASS    |
|                |         |         | NV            | 40               | -26000         | -5              | 20          | PASS    |



|                |      |      |    |     |        |           |    |      |
|----------------|------|------|----|-----|--------|-----------|----|------|
|                |      | 5240 | NV | 50  | -26000 | -5        | 20 | PASS |
|                |      |      | NV | -30 | -27000 | -5.152672 | 20 | PASS |
|                |      |      | NV | -20 | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | -10 | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 0   | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 10  | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 20  | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 30  | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 40  | -26000 | -4.961832 | 20 | PASS |
|                |      |      | NV | 50  | -26000 | -4.961832 | 20 | PASS |
| 11AC40SI<br>SO | Ant1 | 5190 | NV | -30 | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | -20 | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | -10 | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 0   | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 10  | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 20  | -25000 | -4.816956 | 20 | PASS |
|                |      |      | NV | 30  | -26000 | -5.009634 | 20 | PASS |
|                |      |      | NV | 40  | -26000 | -5.009634 | 20 | PASS |
|                |      |      | NV | 50  | -26000 | -5.009634 | 20 | PASS |
|                |      | 5230 | NV | -30 | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | -20 | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | -10 | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 0   | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 10  | -26000 | -4.971319 | 20 | PASS |
|                |      |      | NV | 20  | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 30  | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 40  | -25000 | -4.780115 | 20 | PASS |
|                |      |      | NV | 50  | -25000 | -4.780115 | 20 | PASS |
| 11AC80SI<br>SO | Ant1 | 5210 | NV | -30 | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | -20 | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | -10 | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | 0   | -25000 | -4.798464 | 20 | PASS |
|                |      |      | NV | 10  | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | 20  | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | 30  | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | 40  | -26000 | -4.990403 | 20 | PASS |
|                |      |      | NV | 50  | -26000 | -4.990403 | 20 | PASS |

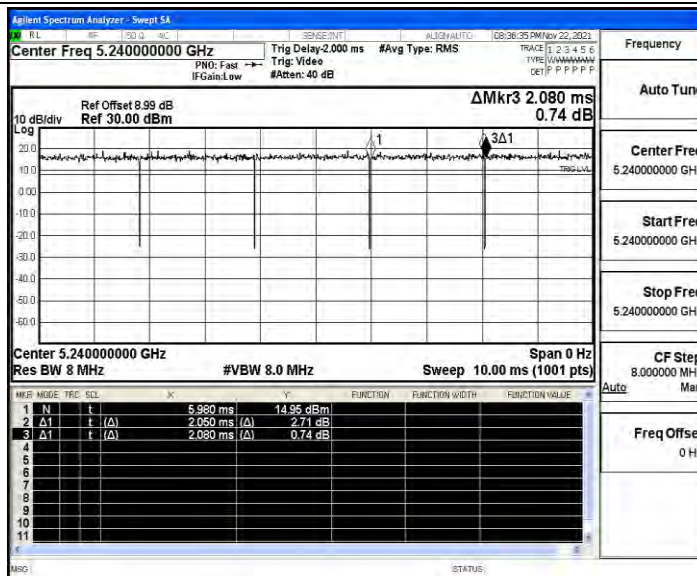


## D.6 Duty Cycle

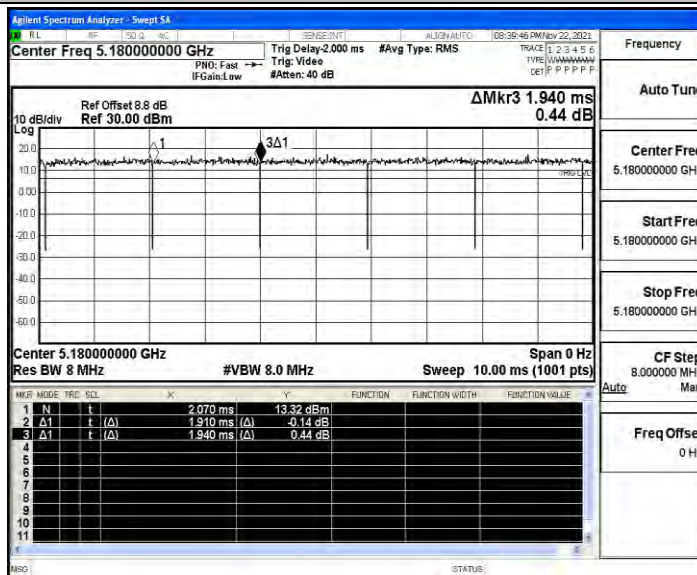
### Test Result

| TestMode   | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|------------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11A        | Ant0    | 5180    | 2.05                       | 2.08                     | 98.56          | ---   | PASS    |
|            |         | 5200    | 2.05                       | 2.08                     | 98.56          | ---   | PASS    |
|            |         | 5240    | 2.05                       | 2.08                     | 98.56          | ---   | PASS    |
| 11N20SISO  | Ant0    | 5180    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
|            |         | 5200    | 1.90                       | 1.93                     | 98.45          | ---   | PASS    |
|            |         | 5240    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
| 11N40SISO  | Ant0    | 5190    | 0.93                       | 0.96                     | 96.88          | ---   | PASS    |
|            |         | 5230    | 0.93                       | 0.96                     | 96.88          | ---   | PASS    |
| 11AC20SISO | Ant0    | 5180    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
|            |         | 5200    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
|            |         | 5240    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
| 11AC40SISO | Ant0    | 5190    | 0.94                       | 0.97                     | 96.91          | ---   | PASS    |
|            |         | 5230    | 0.94                       | 0.97                     | 96.91          | ---   | PASS    |
| 11AC80SISO | Ant0    | 5210    | 0.43                       | 0.46                     | 93.48          | ---   | PASS    |

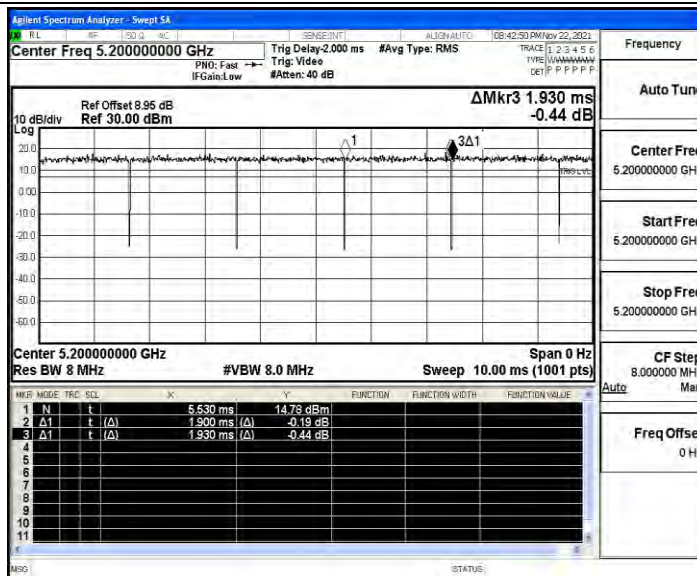




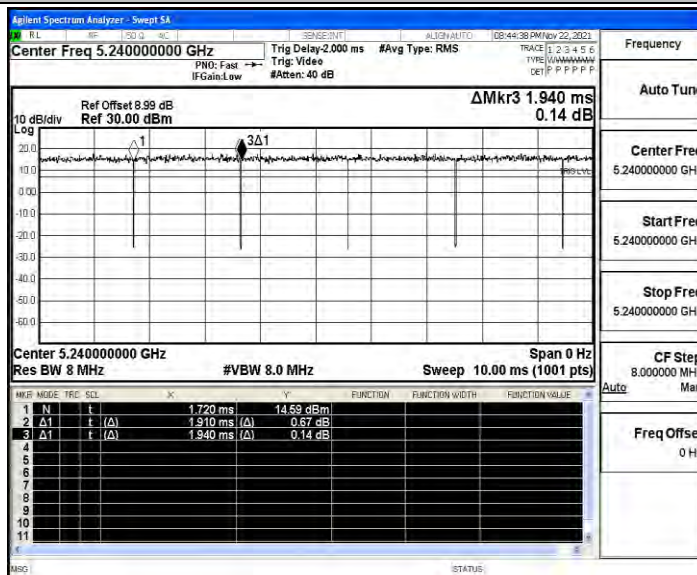
11N20SISO\_Ant0\_5180



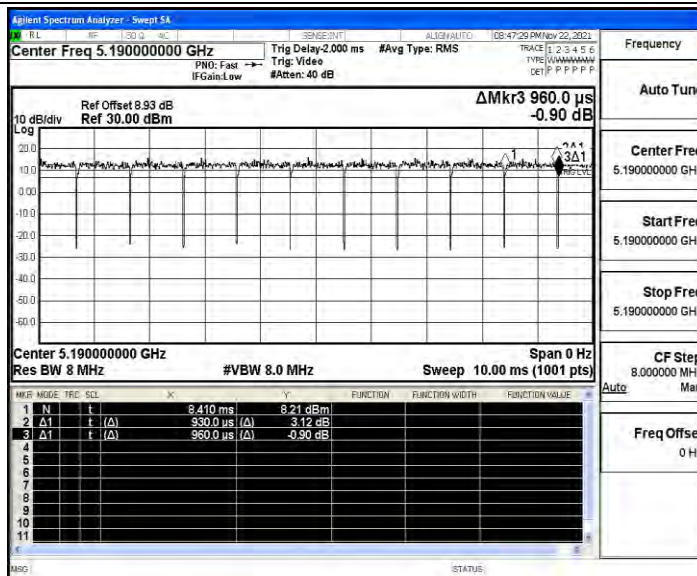
11N20SISO\_Ant0\_5200



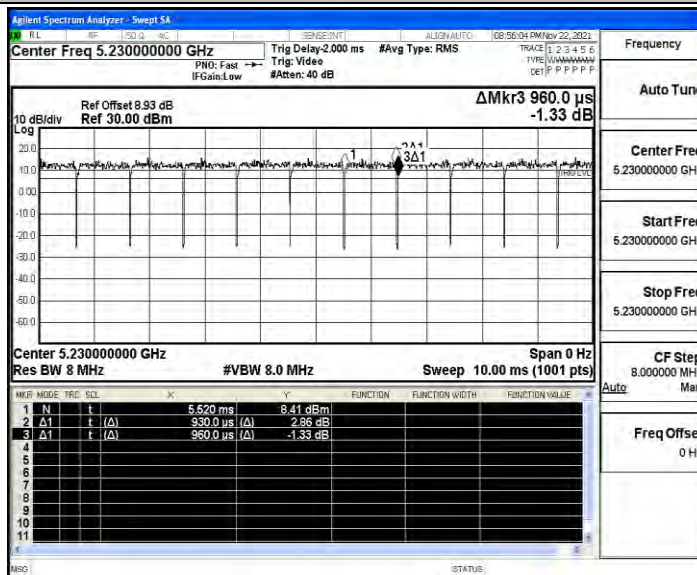
11N20SISO\_Ant0\_5240



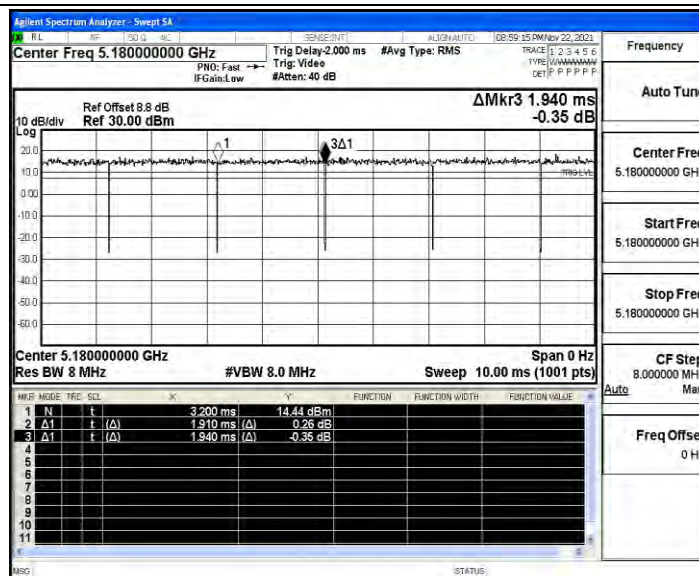
11N40SISO\_Ant0\_5190



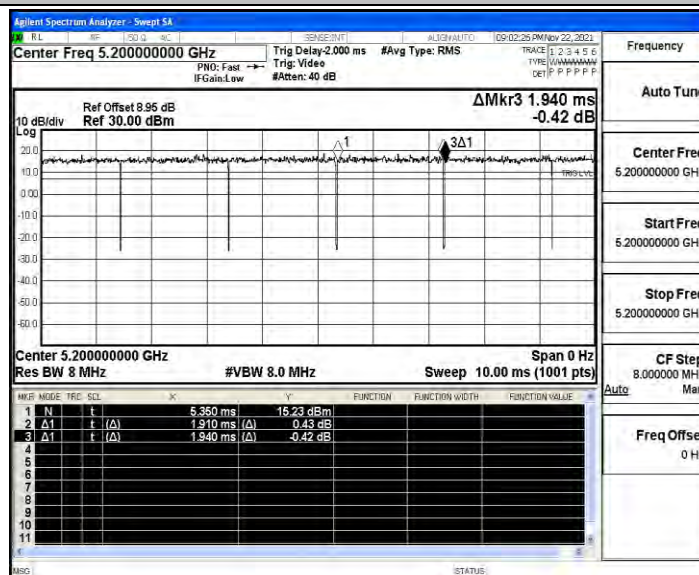
11N40SISO\_Ant0\_5230



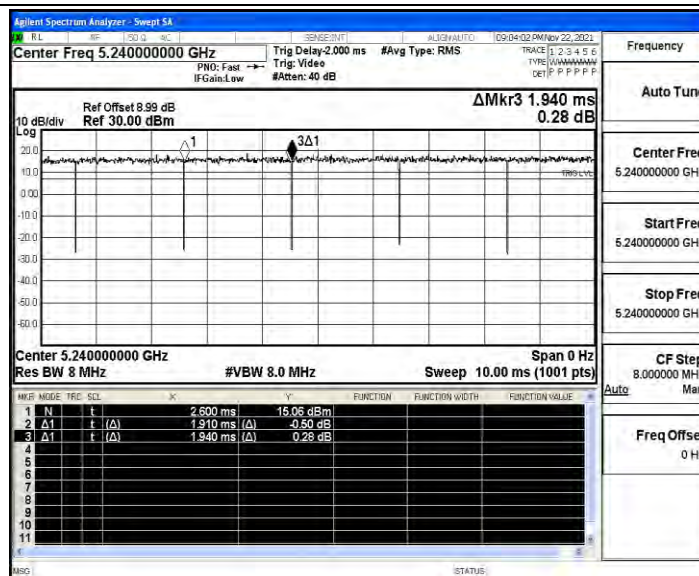
11AC20SISO\_Ant0\_5180



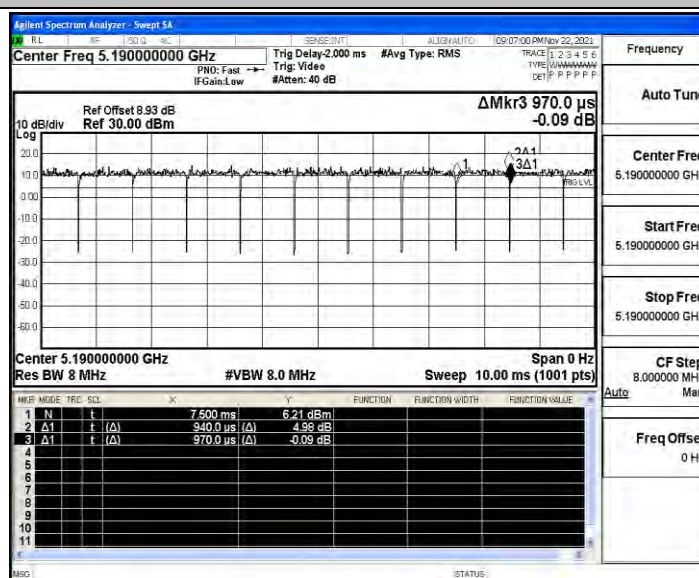
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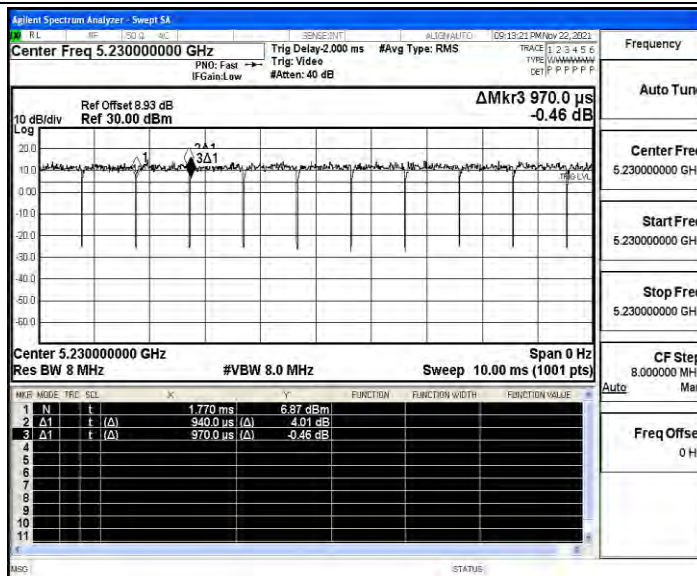
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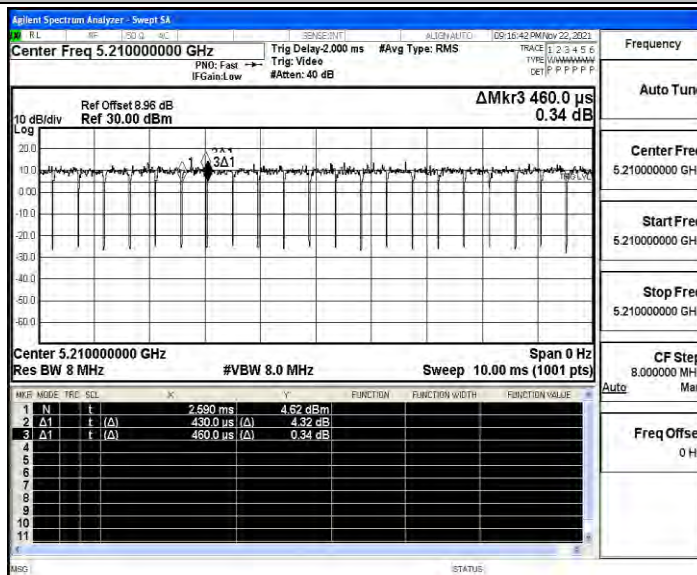
11AC40SISO\_Ant0\_5190



11AC40SISO\_Ant0\_5230



11AC80SISO\_Ant0\_5210



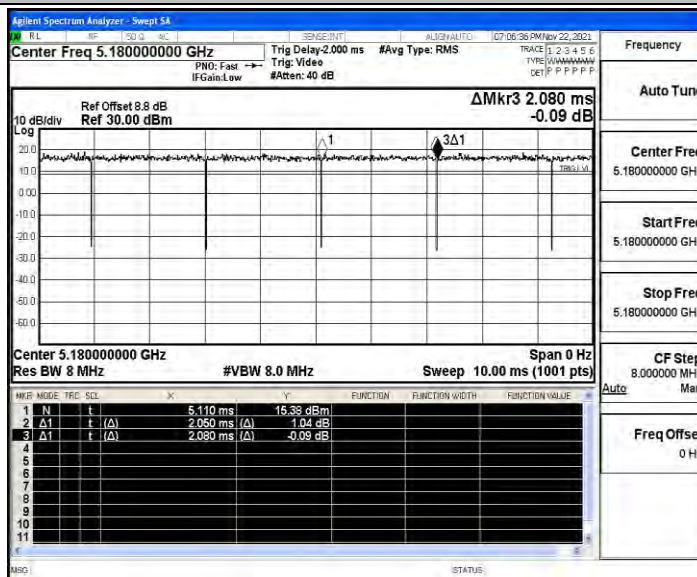


| TestMode   | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|------------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11A        | Ant1    | 5180    | 2.05                       | 2.08                     | 98.56          | ---   | PASS    |
|            |         | 5200    | 2.05                       | 2.08                     | 98.56          | ---   | PASS    |
|            |         | 5240    | 2.05                       | 2.08                     | 98.56          | ---   | PASS    |
| 11N20SISO  | Ant1    | 5180    | 1.90                       | 1.93                     | 98.45          | ---   | PASS    |
|            |         | 5200    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
|            |         | 5240    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
| 11N40SISO  | Ant1    | 5190    | 0.93                       | 0.96                     | 96.88          | ---   | PASS    |
|            |         | 5230    | 0.93                       | 0.96                     | 96.88          | ---   | PASS    |
| 11AC20SISO | Ant1    | 5180    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
|            |         | 5200    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
|            |         | 5240    | 1.91                       | 1.94                     | 98.45          | ---   | PASS    |
| 11AC40SISO | Ant1    | 5190    | 0.94                       | 0.97                     | 96.91          | ---   | PASS    |
|            |         | 5230    | 0.94                       | 0.97                     | 96.91          | ---   | PASS    |
| 11AC80SISO | Ant1    | 5210    | 0.43                       | 0.46                     | 93.48          | ---   | PASS    |

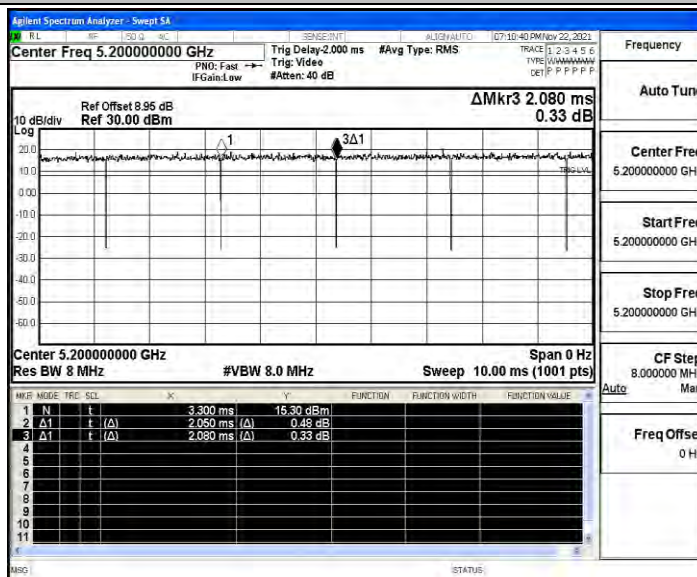


## Test Graphs

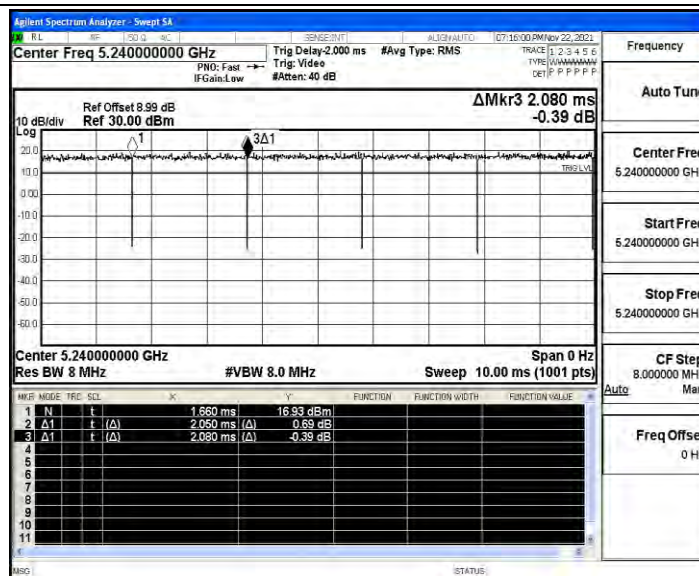
11A\_Ant1\_5180



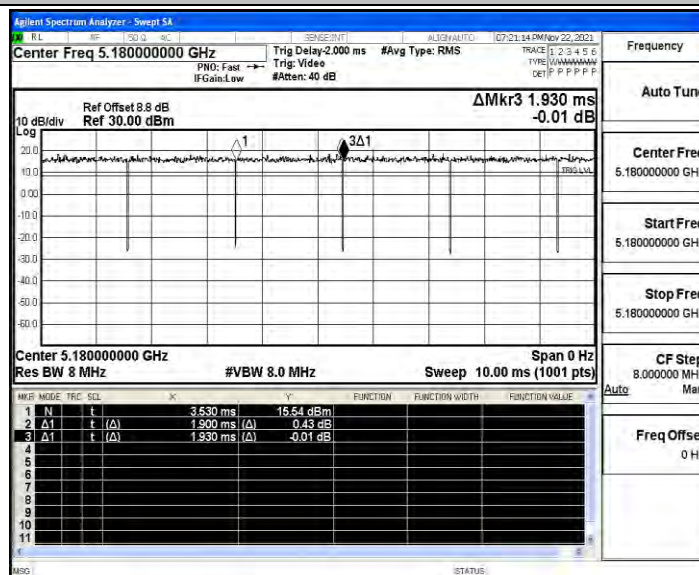
11A\_Ant1\_5200



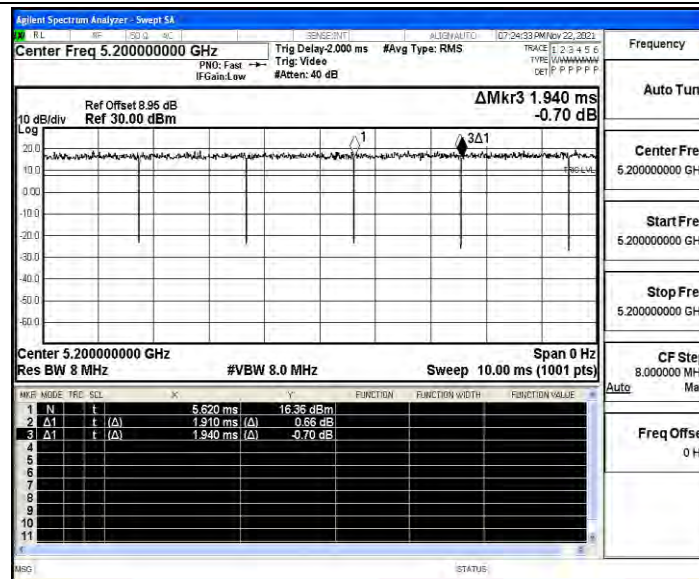
11A\_Ant1\_5240



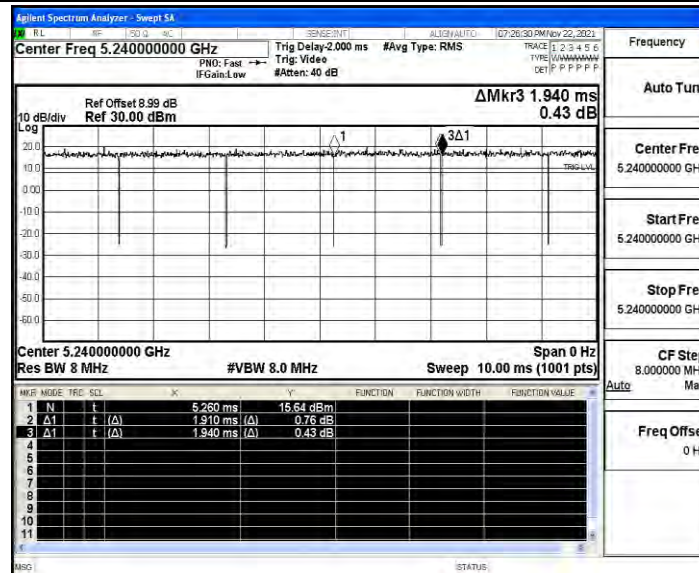
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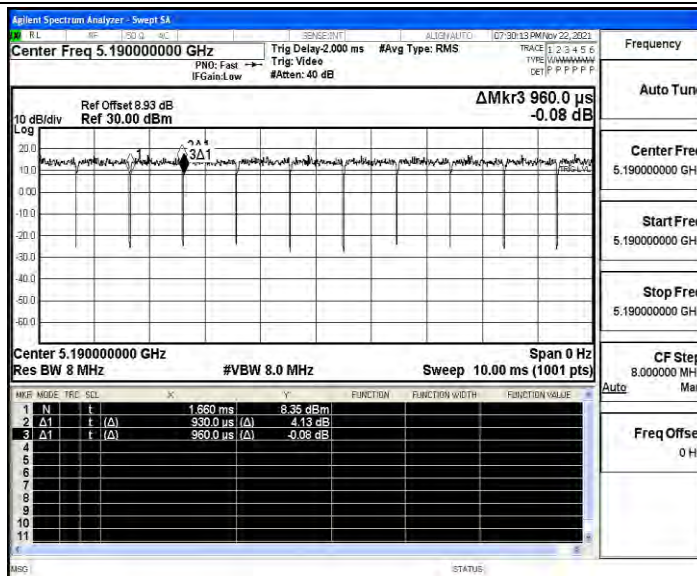
11N20SISO\_Ant1\_5200



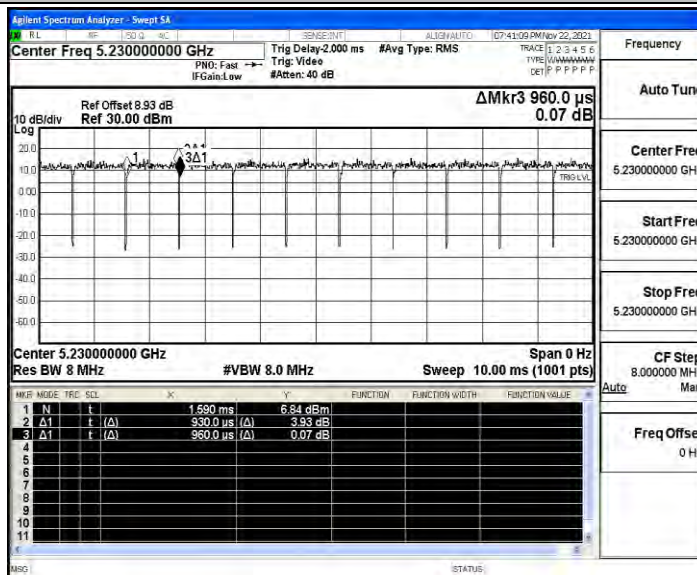
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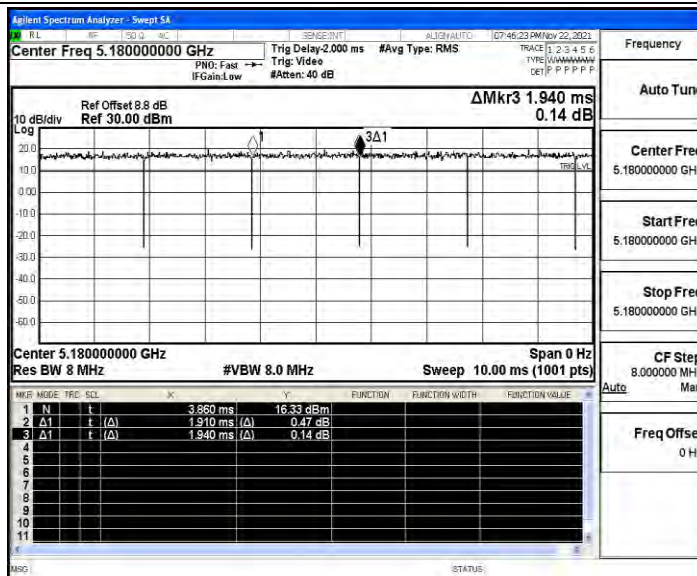
11N40SISO\_Ant1\_5190



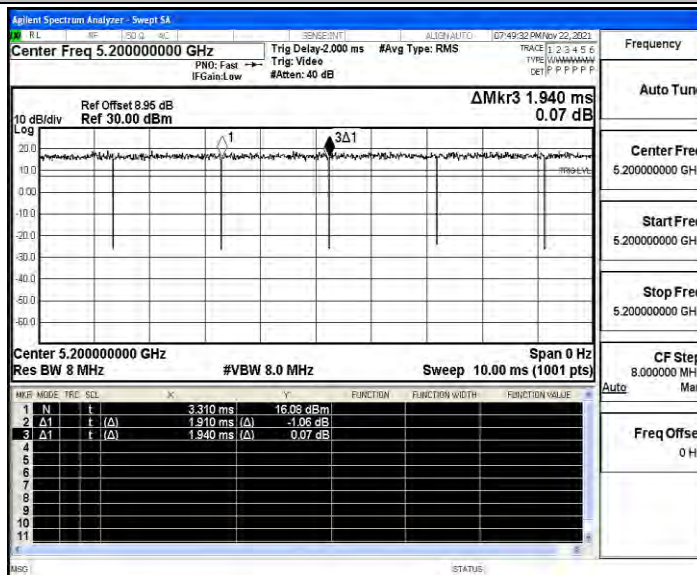
11N40SISO\_Ant1\_5230



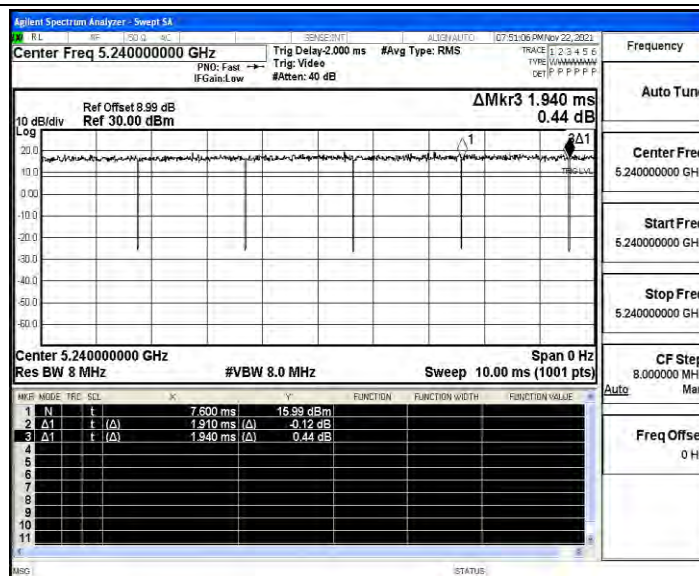
11AC20SISO\_Ant1\_5180



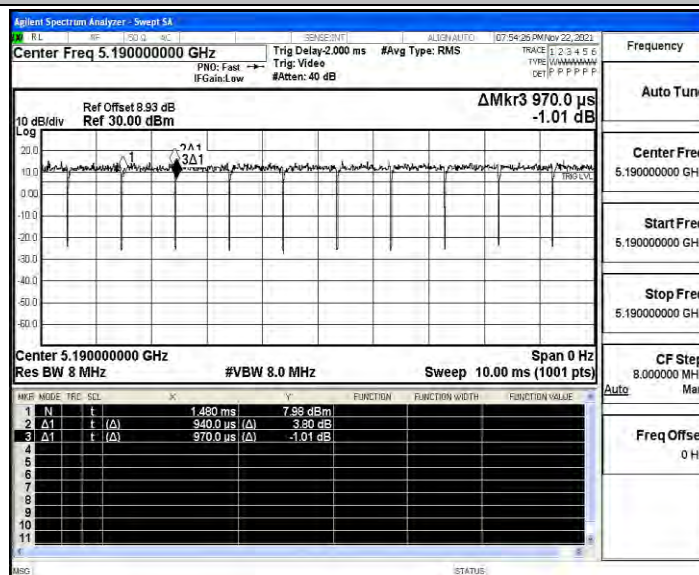
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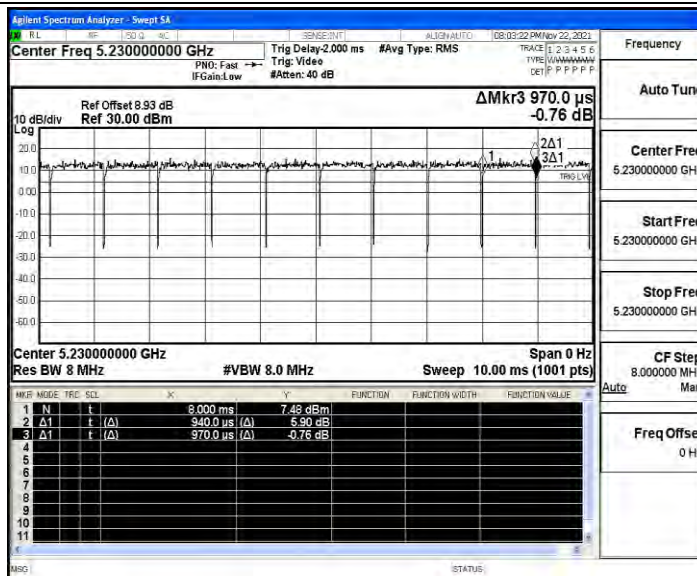
11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210

