

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30097001 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.05.22      | Finish Test Date:  | 2023.05.29 |
| Test Engineer:   | Rock Luo        | Auditor:           | Edward Pan |
| Temperature:     | 25.2℃           | Relative Humidity: | 42%        |
| Pressure:        | 1012 hPa        |                    |            |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 10.080       | 2406.960 | 2417.040 | ≥0.5       | PASS    |
|           | Ant2    | 2412           | 10.080       | 2406.960 | 2417.040 | ≥0.5       | PASS    |
|           | Ant1    | 2437           | 10.040       | 2431.960 | 2442.000 | ≥0.5       | PASS    |
|           | Ant2    | 2437           | 10.040       | 2432.000 | 2442.040 | ≥0.5       | PASS    |
|           | Ant1    | 2462           | 10.040       | 2456.960 | 2467.000 | ≥0.5       | PASS    |
|           | Ant2    | 2462           | 10.080       | 2456.960 | 2467.040 | ≥0.5       | PASS    |
| 11G       | Ant1    | 2412           | 16.040       | 2403.840 | 2419.880 | ≥0.5       | PASS    |
|           | Ant2    | 2412           | 15.280       | 2404.480 | 2419.760 | ≥0.5       | PASS    |
|           | Ant1    | 2437           | 15.040       | 2429.480 | 2444.520 | ≥0.5       | PASS    |
|           | Ant2    | 2437           | 16.320       | 2428.840 | 2445.160 | ≥0.5       | PASS    |
|           | Ant1    | 2462           | 15.400       | 2454.120 | 2469.520 | ≥0.5       | PASS    |
|           | Ant2    | 2462           | 15.280       | 2454.240 | 2469.520 | ≥0.5       | PASS    |
| 11N20SISO | Ant1    | 2412           | 16.600       | 2403.520 | 2420.120 | ≥0.5       | PASS    |
|           | Ant2    | 2412           | 15.880       | 2403.880 | 2419.760 | ≥0.5       | PASS    |
|           | Ant1    | 2437           | 16.600       | 2428.560 | 2445.160 | ≥0.5       | PASS    |
|           | Ant2    | 2437           | 16.320       | 2429.080 | 2445.400 | ≥0.5       | PASS    |
|           | Ant1    | 2462           | 17.080       | 2453.440 | 2470.520 | ≥0.5       | PASS    |
|           | Ant2    | 2462           | 17.520       | 2453.240 | 2470.760 | ≥0.5       | PASS    |
| 11N40SISO | Ant1    | 2422           | 35.100       | 2404.420 | 2439.520 | ≥0.5       | PASS    |
|           | Ant2    | 2422           | 34.980       | 2404.480 | 2439.460 | ≥0.5       | PASS    |
|           | Ant1    | 2437           | 35.100       | 2419.480 | 2454.580 | ≥0.5       | PASS    |
|           | Ant2    | 2437           | 35.100       | 2419.480 | 2454.580 | ≥0.5       | PASS    |
|           | Ant1    | 2452           | 35.040       | 2434.480 | 2469.520 | ≥0.5       | PASS    |
|           | Ant2    | 2452           | 35.040       | 2434.420 | 2469.460 | ≥0.5       | PASS    |

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## Test Graphs

11B\_Ant1\_2412



11B\_Ant2\_2412



11B\_Ant1\_2437

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11B\_Ant2\_2437



11B\_Ant1\_2462



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11G\_Ant1\_2437



11G\_Ant2\_2437



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11G\_Ant1\_2462



11G\_Ant2\_2462



11N20SISO\_Ant1\_2412

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11N20SISO\_Ant2\_2412



11N20SISO\_Ant1\_2437



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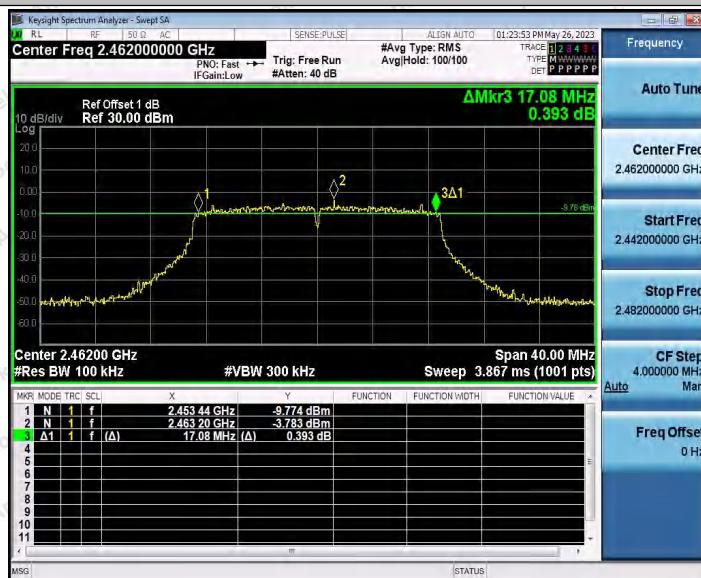
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## 11N20SISO\_Ant2\_2437



## 11N20SISO\_Ant1\_2462



## 11N20SISO\_Ant2\_2462

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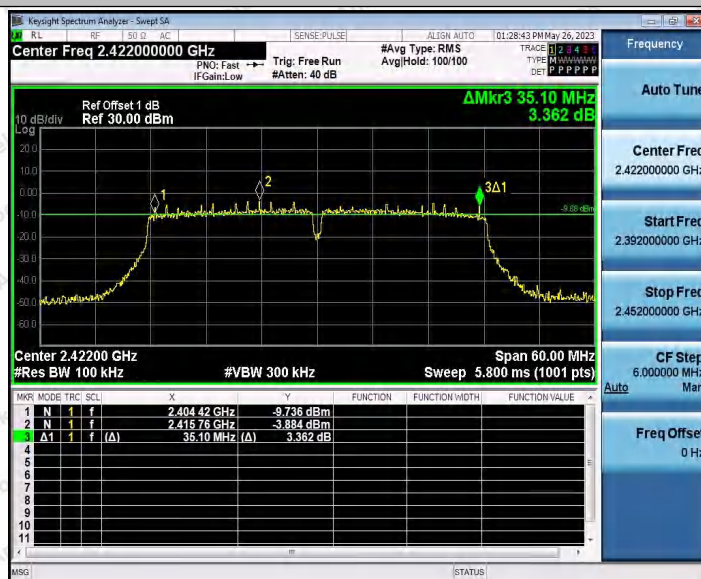


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11N40SISO\_Ant1\_2422



11N40SISO\_Ant2\_2422



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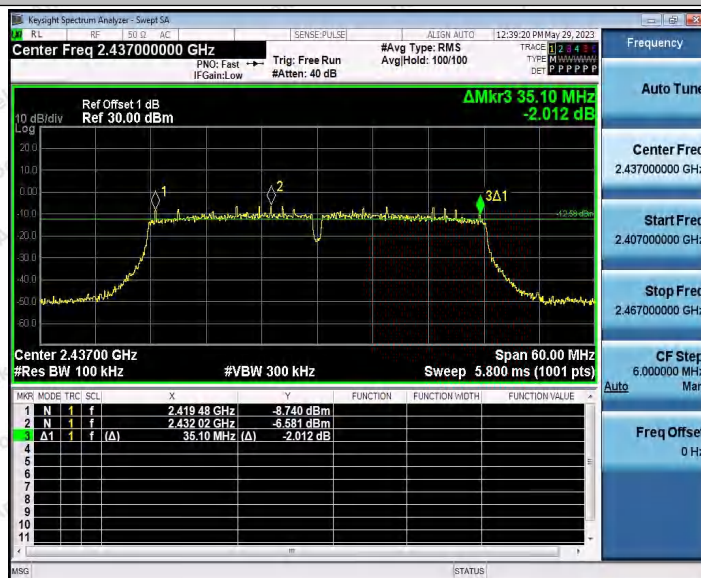
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant2\_2437



11N40SISO\_Ant1\_2452

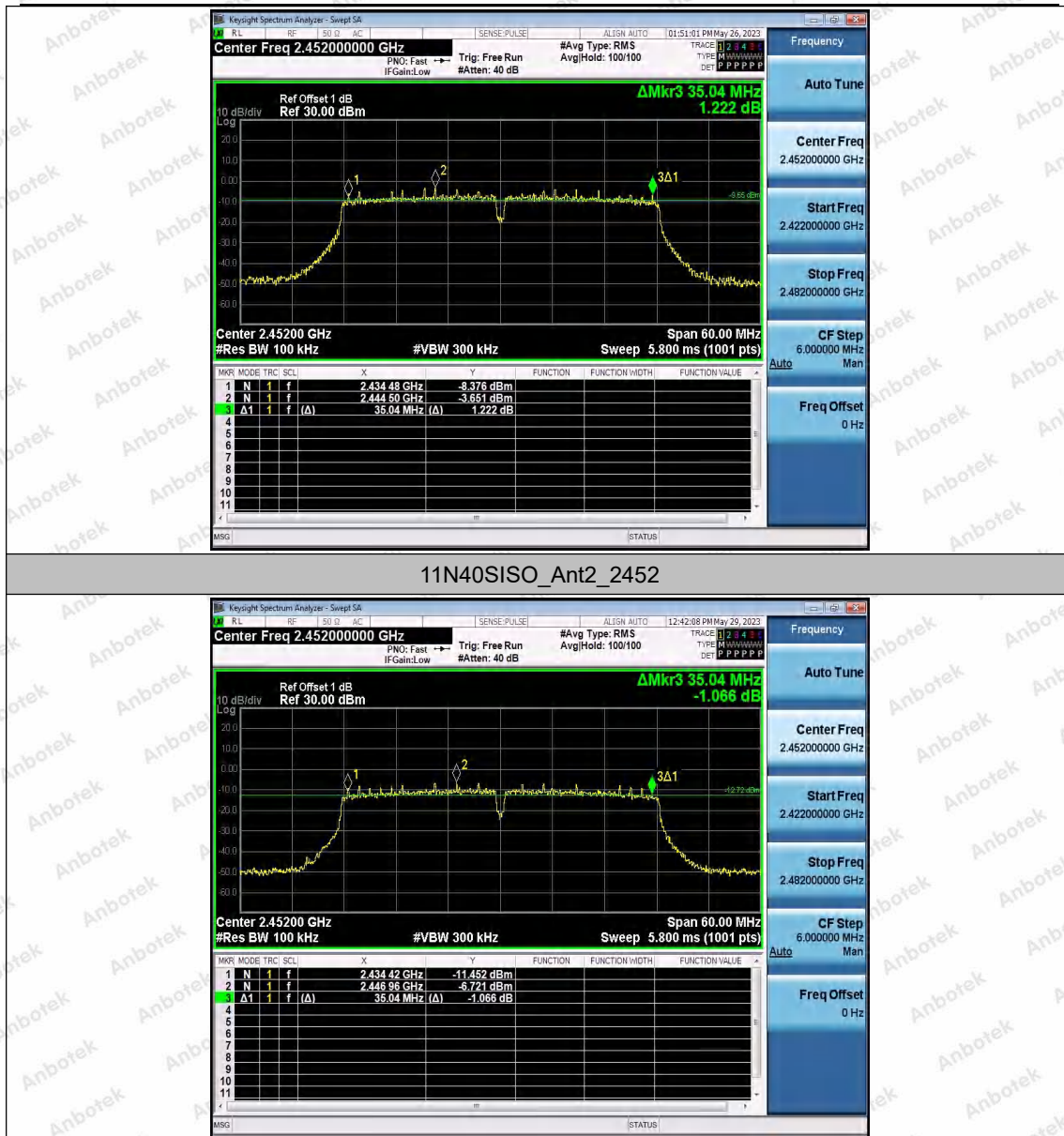
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|------------------------|-----------|-----------|-----------|
| 11B       | Ant1    | 2412                   | 14.662    | 2404.6873 | 2419.3493 |
|           | Ant2    | 2412                   | 14.597    | 2404.7091 | 2419.3061 |
|           | Ant1    | 2437                   | 14.673    | 2429.6697 | 2444.3427 |
|           | Ant2    | 2437                   | 14.635    | 2429.6971 | 2444.3321 |
|           | Ant1    | 2462                   | 14.655    | 2454.6609 | 2469.3159 |
|           | Ant2    | 2462                   | 14.633    | 2454.6900 | 2469.3230 |
| 11G       | Ant1    | 2412                   | 16.858    | 2403.6008 | 2420.4588 |
|           | Ant2    | 2412                   | 16.739    | 2403.6807 | 2420.4197 |
|           | Ant1    | 2437                   | 16.666    | 2428.6984 | 2445.3644 |
|           | Ant2    | 2437                   | 16.685    | 2428.7132 | 2445.3982 |
|           | Ant1    | 2462                   | 16.803    | 2453.6095 | 2470.4125 |
|           | Ant2    | 2462                   | 16.707    | 2453.6669 | 2470.3739 |
| 11N20SISO | Ant1    | 2412                   | 17.891    | 2403.1267 | 2421.0177 |
|           | Ant2    | 2412                   | 17.768    | 2403.1119 | 2420.8799 |
|           | Ant1    | 2437                   | 17.813    | 2428.1121 | 2445.9251 |
|           | Ant2    | 2437                   | 17.875    | 2428.0964 | 2445.9714 |
|           | Ant1    | 2462                   | 17.836    | 2453.1226 | 2470.9586 |
|           | Ant2    | 2462                   | 17.938    | 2453.0649 | 2471.0029 |
| 11N40SISO | Ant1    | 2422                   | 36.103    | 2404.0072 | 2440.1102 |
|           | Ant2    | 2422                   | 36.028    | 2403.9903 | 2440.0183 |
|           | Ant1    | 2437                   | 36.107    | 2419.0037 | 2455.1107 |
|           | Ant2    | 2437                   | 36.113    | 2418.9850 | 2455.0980 |
|           | Ant1    | 2452                   | 36.117    | 2433.9710 | 2470.0880 |
|           | Ant2    | 2452                   | 36.131    | 2433.9916 | 2470.1226 |



## Test Graphs



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11B\_Ant2\_2437



11B\_Ant1\_2462



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11B\_Ant2\_2462



11G\_Ant1\_2412



11G\_Ant2\_2412

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11G\_Ant1\_2437



11G\_Ant2\_2437



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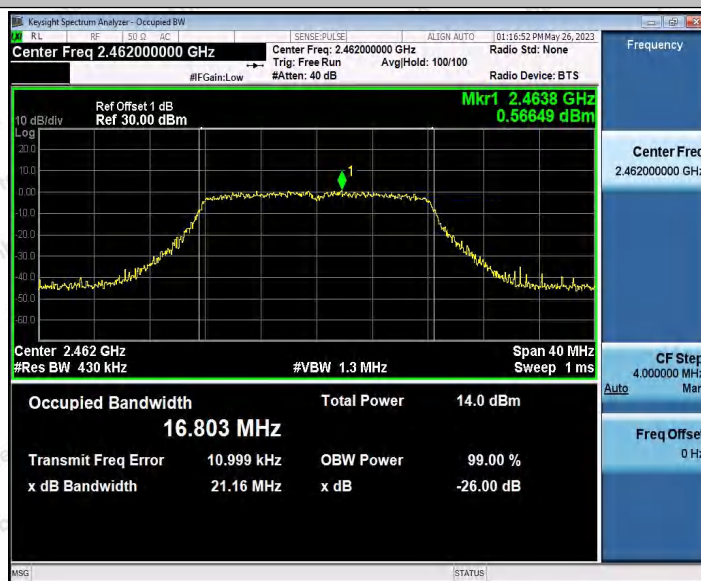
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11G\_Ant1\_2462



11G\_Ant2\_2462



11N20SISO\_Ant1\_2412

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11N20SISO\_Ant2\_2412



11N20SISO\_Ant1\_2437



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11N20SISO\_Ant2\_2437



11N20SISO\_Ant1\_2462



11N20SISO\_Ant2\_2462

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11N40SISO\_Ant1\_2422



11N40SISO\_Ant2\_2422



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## 11N40SISO\_Ant1\_2437



## 11N40SISO\_Ant2\_2437



## 11N40SISO\_Ant1\_2452

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11N40SISO\_Ant2\_2452



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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|---------|----------------|-----------------|----------------------|
| 11B       | Ant1    | 2412           | 15.01           | ≤30.00               |
|           | Ant2    | 2412           | 11.38           | ≤30.00               |
|           | Ant1    | 2437           | 14.32           | ≤30.00               |
|           | Ant2    | 2437           | 11.12           | ≤30.00               |
|           | Ant1    | 2462           | 14.57           | ≤30.00               |
|           | Ant2    | 2462           | 10.86           | ≤30.00               |
| 11G       | Ant1    | 2412           | 16.02           | ≤30.00               |
|           | Ant2    | 2412           | 13.83           | ≤30.00               |
|           | Ant1    | 2437           | 15.48           | ≤30.00               |
|           | Ant2    | 2437           | 13.30           | ≤30.00               |
|           | Ant1    | 2462           | 15.32           | ≤30.00               |
|           | Ant2    | 2462           | 13.13           | ≤30.00               |
| 11N20SISO | Ant1    | 2412           | 16.01           | ≤30.00               |
|           | Ant2    | 2412           | 13.72           | ≤30.00               |
|           | Ant1    | 2437           | 15.45           | ≤30.00               |
|           | Ant2    | 2437           | 13.22           | ≤30.00               |
|           | Ant1    | 2462           | 15.09           | ≤30.00               |
|           | Ant2    | 2462           | 13.13           | ≤30.00               |
| 11N40SISO | Ant1    | 2422           | 15.20           | ≤30.00               |
|           | Ant2    | 2422           | 12.99           | ≤30.00               |
|           | Ant1    | 2437           | 14.92           | ≤30.00               |
|           | Ant2    | 2437           | 12.59           | ≤30.00               |
|           | Ant1    | 2452           | 15.43           | ≤30.00               |
|           | Ant2    | 2452           | 12.54           | ≤30.00               |

### MIMO:

| Test Mode | Antenna   | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|-----------|----------------|-----------------|----------------------|
| 11N20SISO | Ant1+Ant2 | 2412           | <b>18.02</b>    | ≤30.00               |
|           | Ant1+Ant2 | 2437           | 17.49           | ≤30.00               |
|           | Ant1+Ant2 | 2462           | 17.23           | ≤30.00               |
| 11N40SISO | Ant1+Ant2 | 2422           | 17.24           | ≤30.00               |
|           | Ant1+Ant2 | 2437           | 16.92           | ≤30.00               |
|           | Ant1+Ant2 | 2452           | 17.23           | ≤30.00               |



## Appendix D: Maximum power spectral density

### Test Result

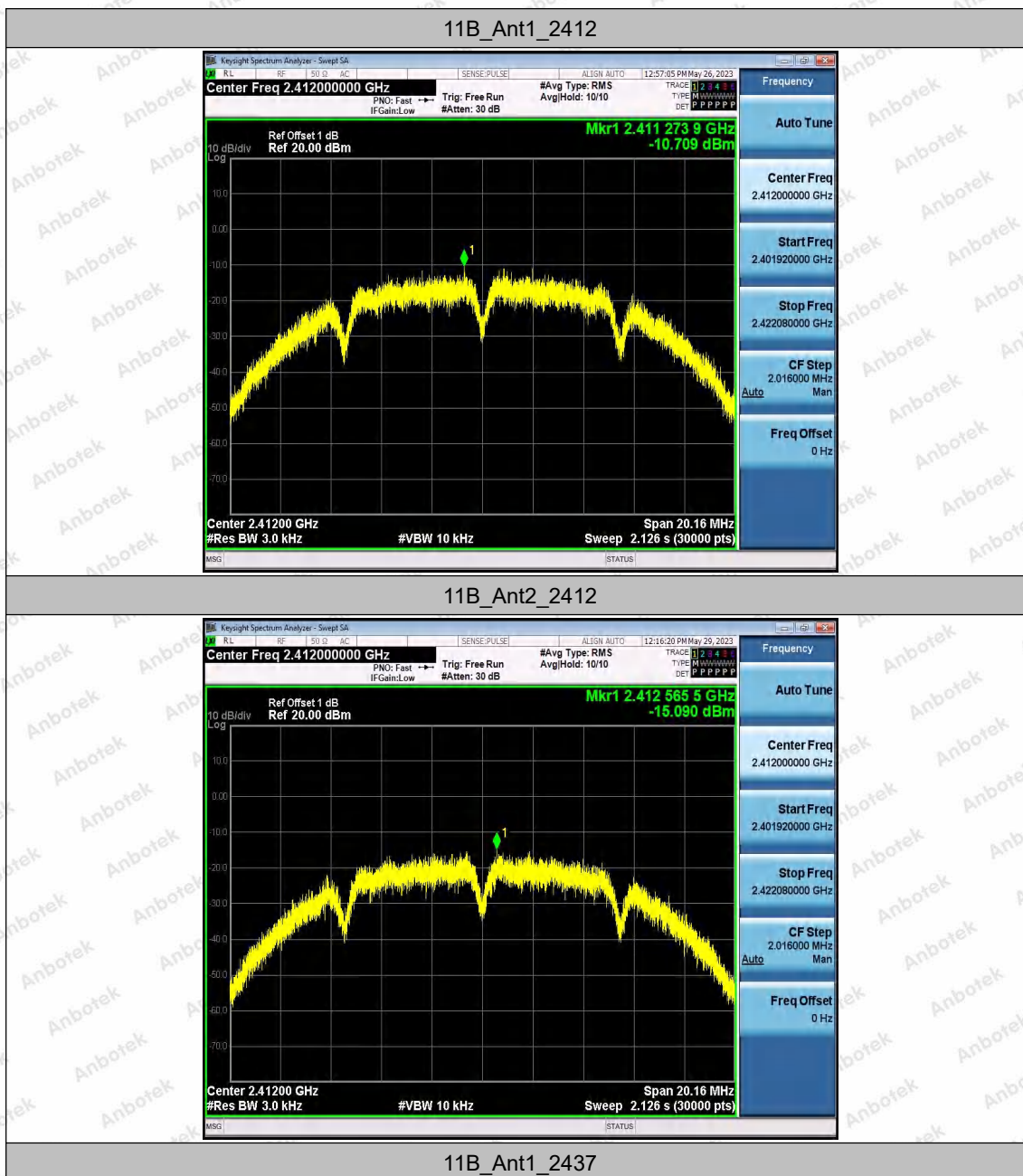
| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -10.71           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -15.09           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -12.28           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -14.92           | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -11.84           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -15.86           | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -15.72           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -16.77           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -15.25           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -18.29           | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -16.64           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -18.43           | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -16.31           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -17.89           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -16.93           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -19.28           | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -16.53           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -18.97           | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422           | -17.94           | ≤8.00           | PASS    |
|           | Ant2    | 2422           | -19.92           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -16.19           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -20.69           | ≤8.00           | PASS    |
|           | Ant1    | 2452           | -17.81           | ≤8.00           | PASS    |
|           | Ant2    | 2452           | -20.68           | ≤8.00           | PASS    |

### MIMO:

| Test Mode | Antenna   | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|-----------|----------------|------------------|-----------------|---------|
| 11N20SISO | Ant1+Ant2 | 2412           | -14.02           | ≤8.00           | PASS    |
|           | Ant1+Ant2 | 2437           | -14.94           | ≤8.00           | PASS    |
|           | Ant1+Ant2 | 2462           | -14.57           | ≤8.00           | PASS    |
| 11N40SISO | Ant1+Ant2 | 2422           | -15.81           | ≤8.00           | PASS    |
|           | Ant1+Ant2 | 2437           | -14.87           | ≤8.00           | PASS    |
|           | Ant1+Ant2 | 2452           | -16.00           | ≤8.00           | PASS    |



## Test Graphs



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11B\_Ant2\_2437



11B\_Ant1\_2462



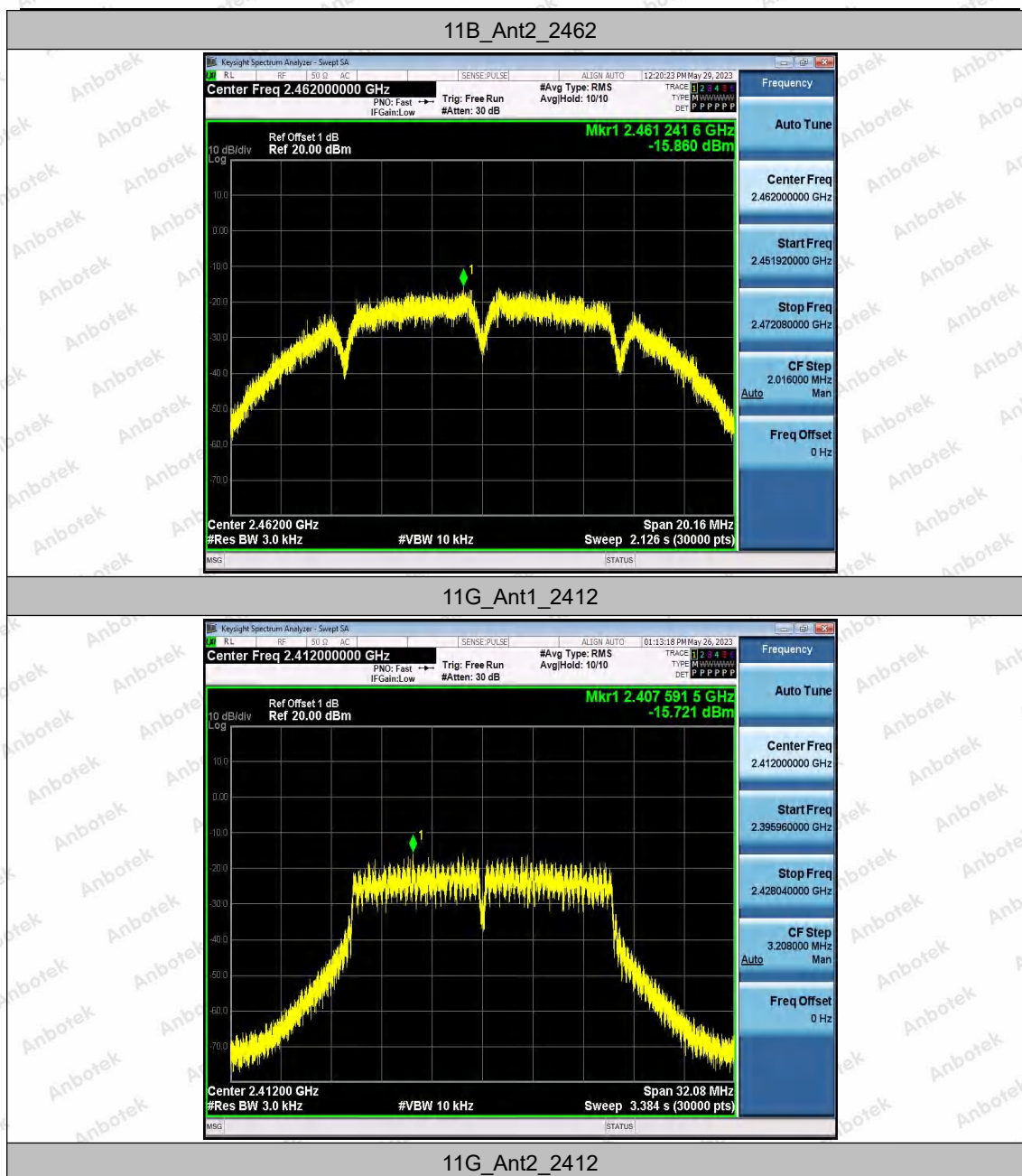
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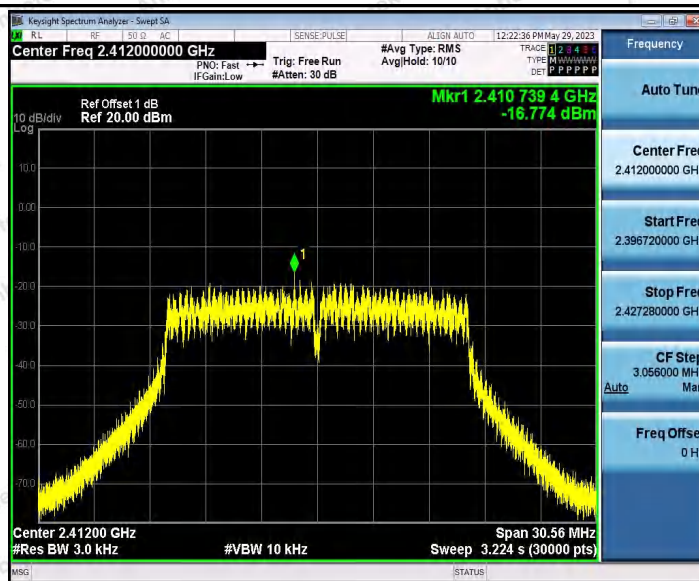
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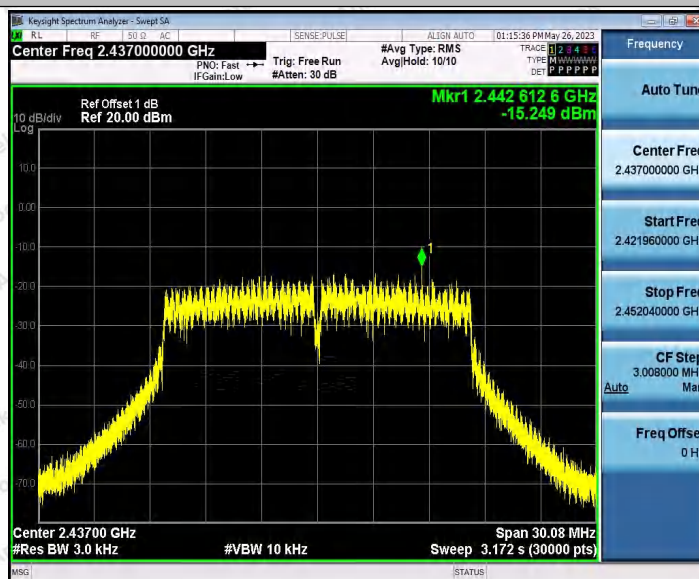


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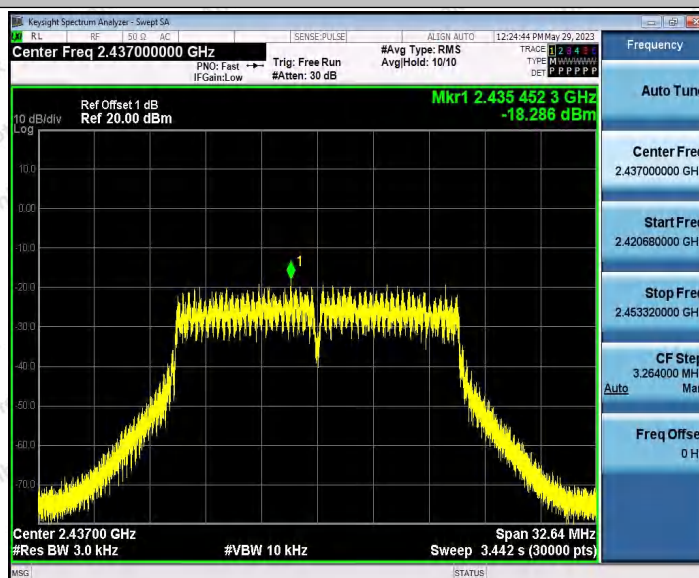




11G\_Ant1\_2437



11G\_Ant2\_2437



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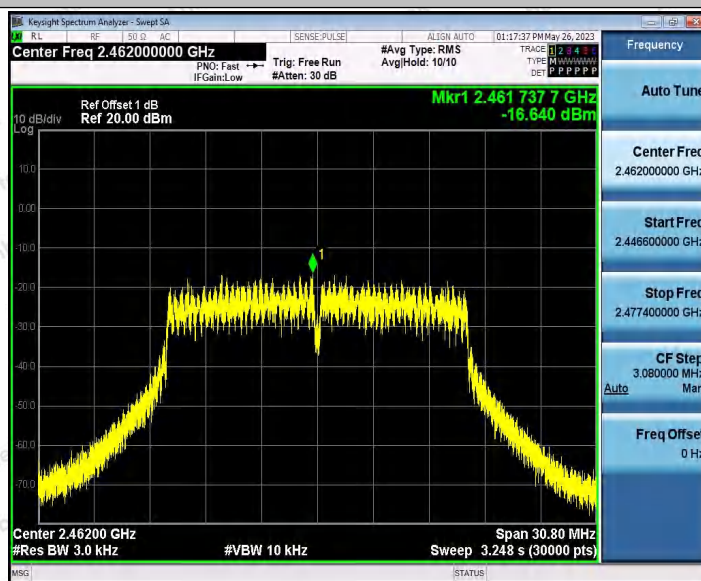
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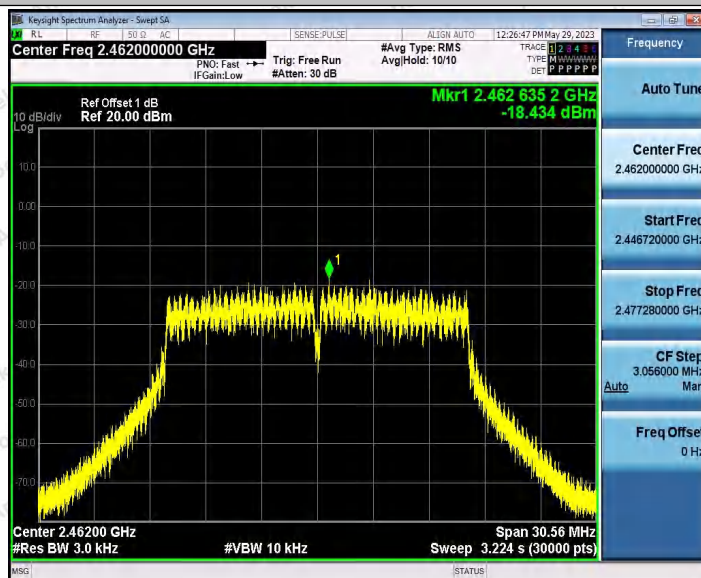
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11G\_Ant1\_2462



11G\_Ant2\_2462



11N20SISO\_Ant1\_2412

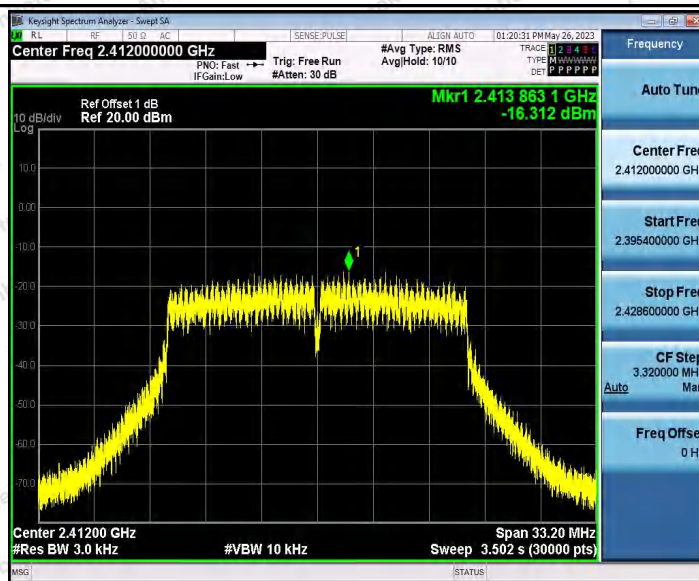
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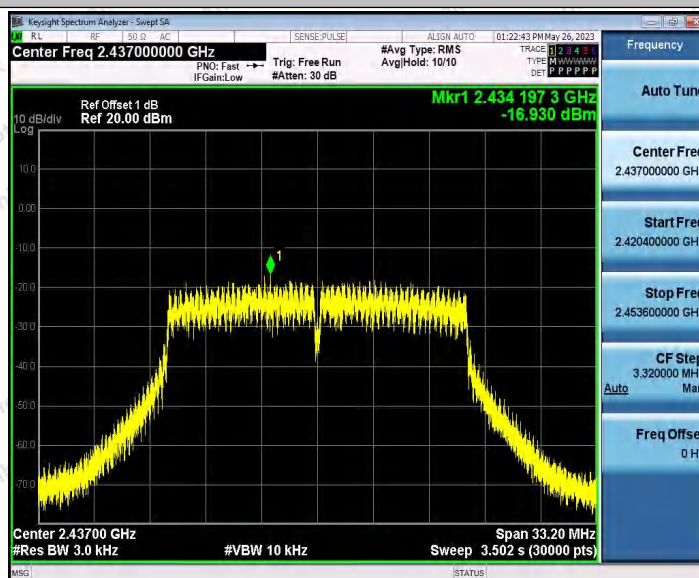




11N20SISO\_Ant2\_2412



11N20SISO\_Ant1\_2437

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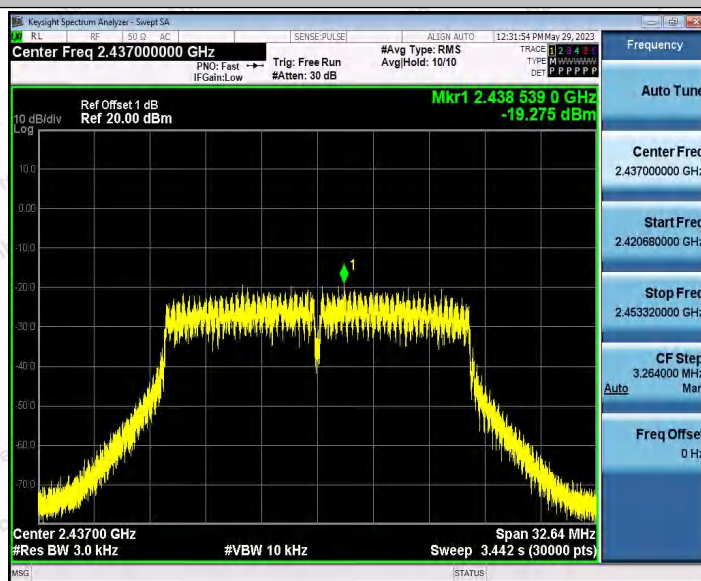
Hotline

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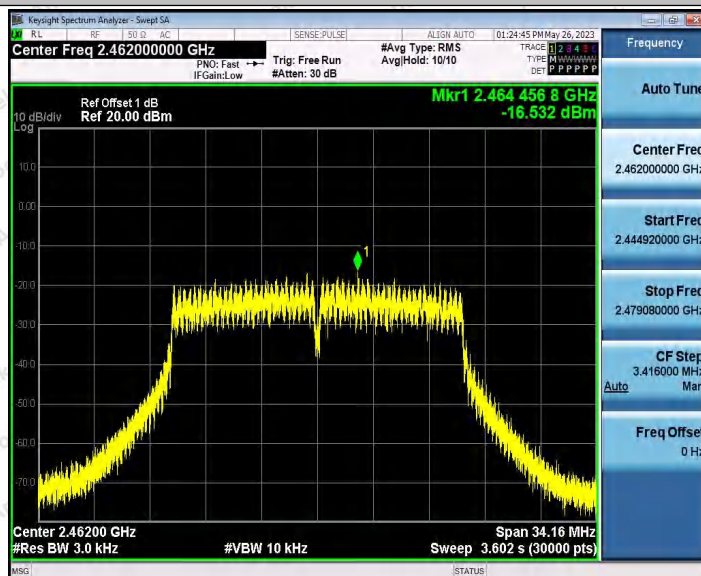
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11N20SISO\_Ant2\_2437



11N20SISO\_Ant1\_2462



11N20SISO\_Ant2\_2462

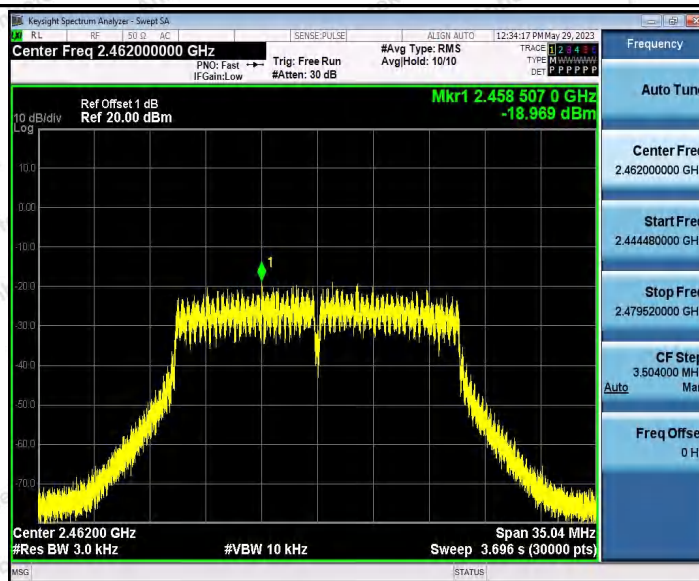
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

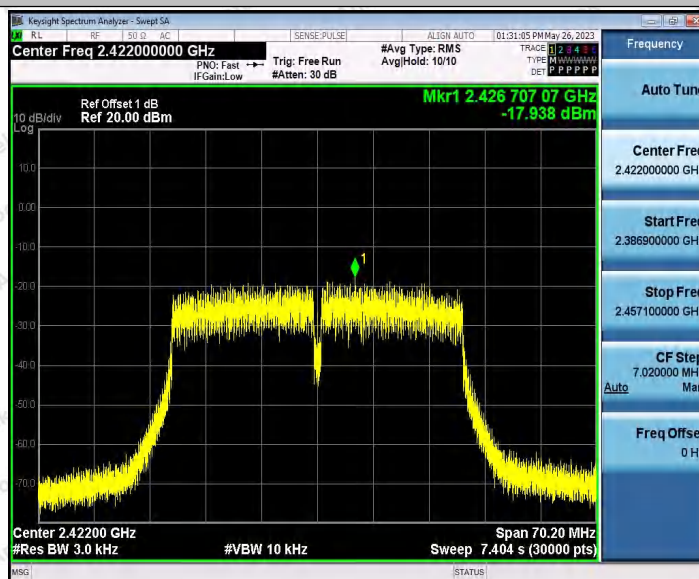


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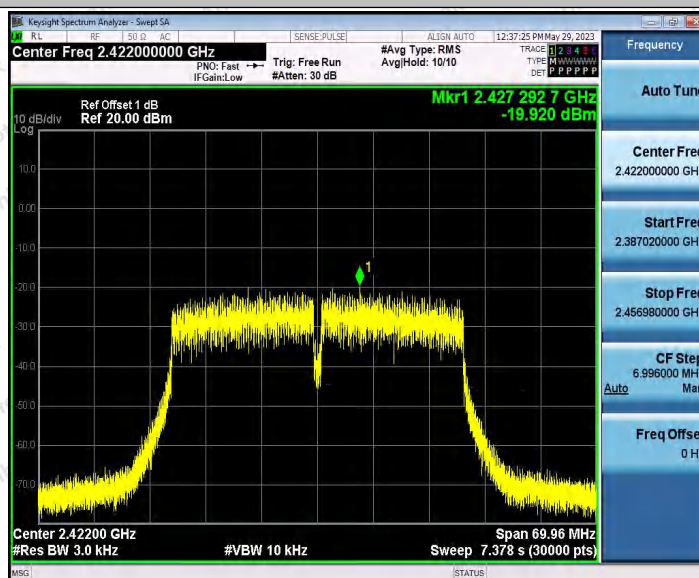




11N40SISO\_Ant1\_2422



11N40SISO\_Ant2\_2422



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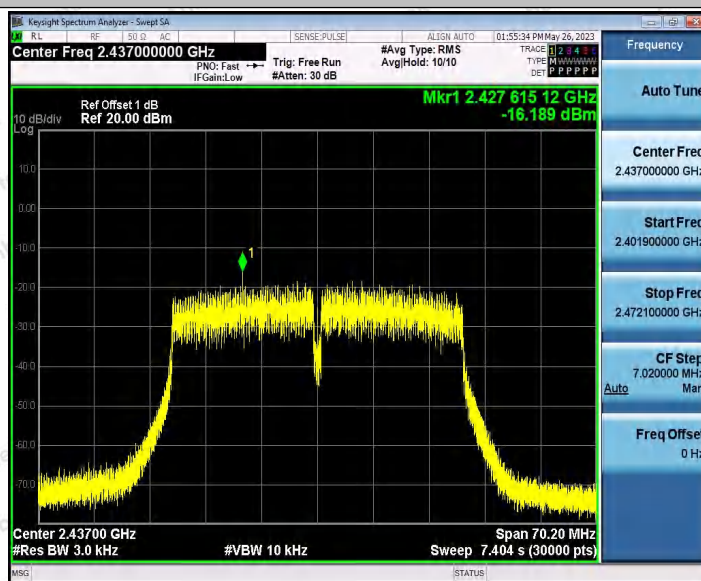
Hotline

400-003-0500

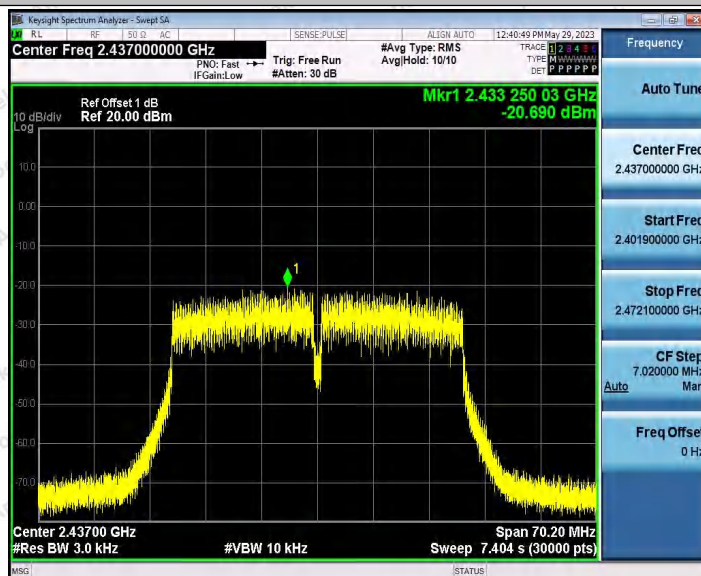
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant2\_2437



11N40SISO\_Ant1\_2452

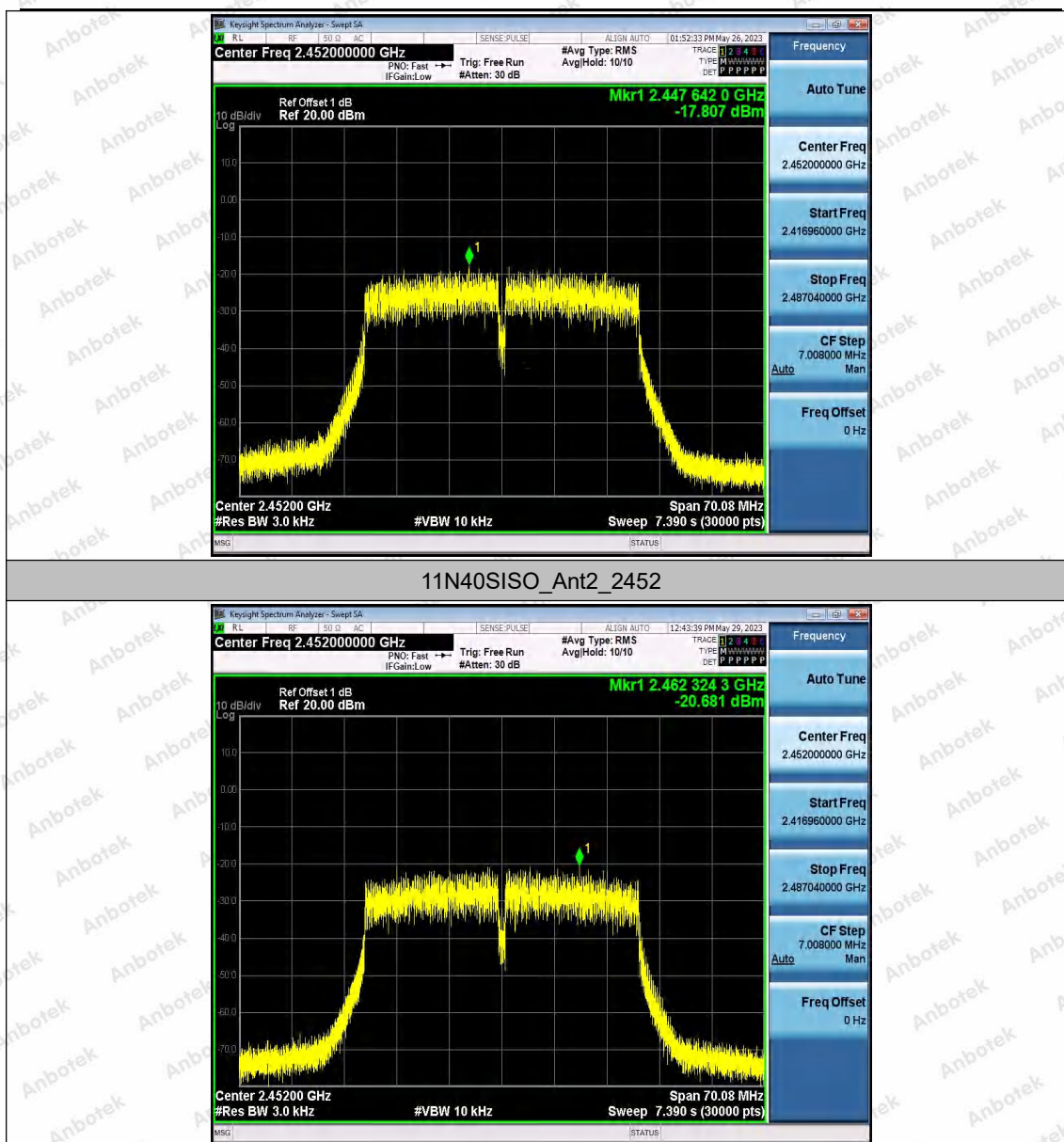
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## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|-----------------|---------------|-------------|---------------|---------|
| 11B       | Ant1    | Low    | 2412            | 2.49          | -42.65      | $\leq -17.51$ | PASS    |
|           | Ant2    | Low    | 2412            | -1.14         | -49.08      | $\leq -21.14$ | PASS    |
|           | Ant1    | High   | 2462            | 2.32          | -55.65      | $\leq -17.68$ | PASS    |
|           | Ant2    | High   | 2462            | -1.50         | -55.96      | $\leq -21.5$  | PASS    |
| 11G       | Ant1    | Low    | 2412            | -2.84         | -42.29      | $\leq -22.84$ | PASS    |
|           | Ant2    | Low    | 2412            | -4.08         | -44.95      | $\leq -24.08$ | PASS    |
|           | Ant1    | High   | 2462            | -3.41         | -55.22      | $\leq -23.41$ | PASS    |
|           | Ant2    | High   | 2462            | -6.06         | -56.52      | $\leq -26.06$ | PASS    |
| 11N20SISO | Ant1    | Low    | 2412            | -3.27         | -36.84      | $\leq -23.27$ | PASS    |
|           | Ant2    | Low    | 2412            | -4.70         | -42.71      | $\leq -24.7$  | PASS    |
|           | Ant1    | High   | 2462            | -3.49         | -53.56      | $\leq -23.49$ | PASS    |
|           | Ant2    | High   | 2462            | -5.41         | -56.1       | $\leq -25.41$ | PASS    |
| 11N40SISO | Ant1    | Low    | 2422            | -3.69         | -44.7       | $\leq -23.69$ | PASS    |
|           | Ant2    | Low    | 2422            | -5.92         | -45.18      | $\leq -25.92$ | PASS    |
|           | Ant1    | High   | 2452            | -3.79         | -52.12      | $\leq -23.79$ | PASS    |
|           | Ant2    | High   | 2452            | -6.61         | -51.59      | $\leq -26.61$ | PASS    |

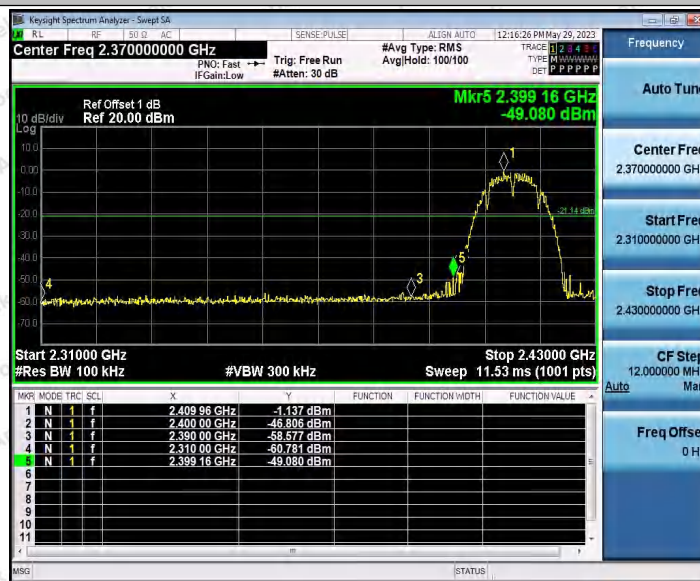


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant2\_Low\_2412



11B\_Ant1\_High\_2462

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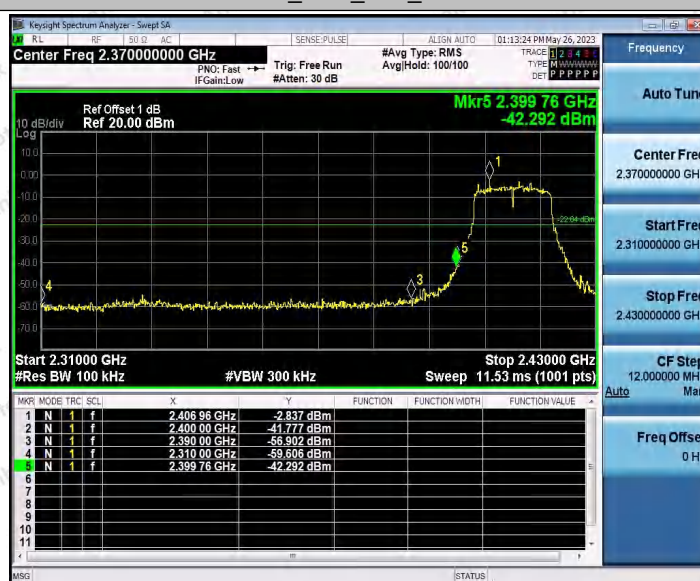




11B\_Ant2\_High\_2462



11G\_Ant1\_Low\_2412



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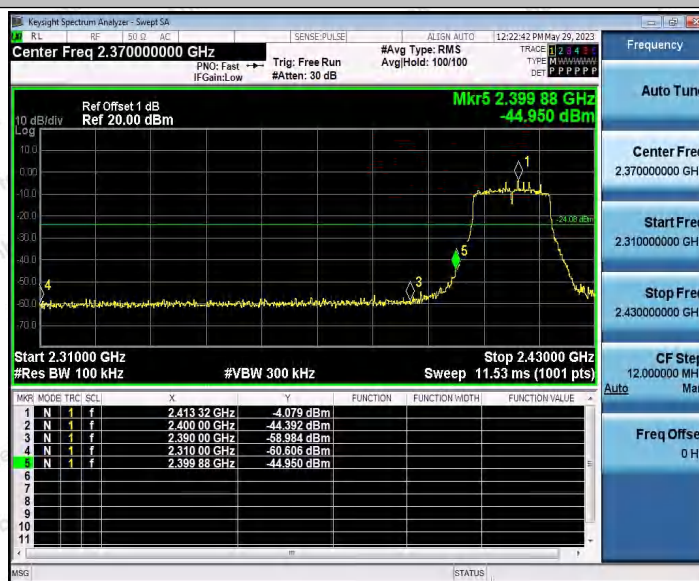
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11G\_Ant2\_Low\_2412



11G\_Ant1\_High\_2462



11G\_Ant2\_High\_2462

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11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant2\_Low\_2412



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## 11N20SISO\_Ant1\_High\_2462



## 11N20SISO\_Ant2\_High\_2462



## 11N40SISO\_Ant1\_Low\_2422

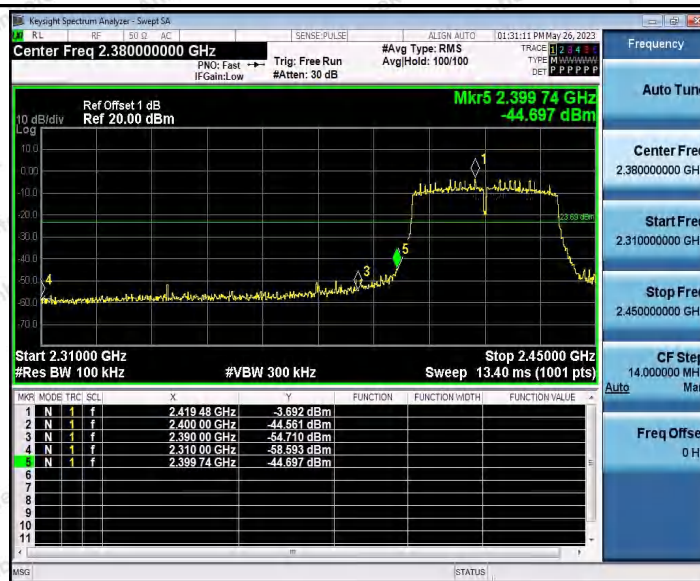
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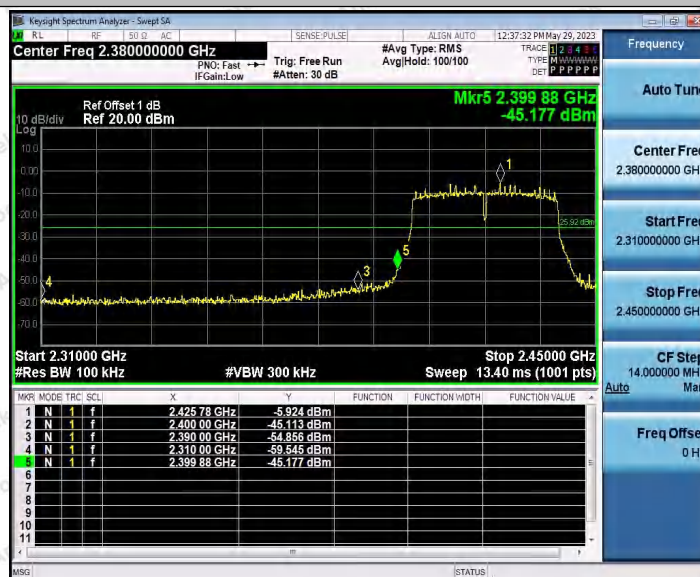


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11N40SISO\_Ant2\_Low\_2422



11N40SISO\_Ant1\_High\_2452



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