

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20117101 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.5.31       | Finish Test Date:  | 2022.6.6          |
| Test Engineer:   | <i>Jony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 22.6°C          | Relative Humidity: | 53.5 %            |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B      | Ant1    | 2412    | 10.280       | 2406.800 | 2417.080 | ≥0.5       | PASS    |
|          | Ant2    | 2412    | 10.120       | 2406.960 | 2417.080 | ≥0.5       | PASS    |
|          | Ant1    | 2437    | 9.160        | 2432.440 | 2441.600 | ≥0.5       | PASS    |
|          | Ant2    | 2437    | 10.080       | 2431.920 | 2442.000 | ≥0.5       | PASS    |
|          | Ant1    | 2462    | 10.120       | 2456.920 | 2467.040 | ≥0.5       | PASS    |
|          | Ant2    | 2462    | 10.160       | 2456.880 | 2467.040 | ≥0.5       | PASS    |
| 11G      | Ant1    | 2412    | 16.480       | 2403.720 | 2420.200 | ≥0.5       | PASS    |
|          | Ant2    | 2412    | 16.560       | 2403.720 | 2420.280 | ≥0.5       | PASS    |
|          | Ant1    | 2437    | 16.480       | 2428.760 | 2445.240 | ≥0.5       | PASS    |
|          | Ant2    | 2437    | 16.520       | 2428.720 | 2445.240 | ≥0.5       | PASS    |
|          | Ant1    | 2462    | 16.560       | 2453.680 | 2470.240 | ≥0.5       | PASS    |
|          | Ant2    | 2462    | 16.480       | 2453.720 | 2470.200 | ≥0.5       | PASS    |
| 11N20    | Ant1    | 2412    | 17.600       | 2403.200 | 2420.800 | ≥0.5       | PASS    |
|          | Ant2    | 2412    | 17.480       | 2403.200 | 2420.680 | ≥0.5       | PASS    |
|          | Ant1    | 2437    | 17.680       | 2428.120 | 2445.800 | ≥0.5       | PASS    |
|          | Ant2    | 2437    | 17.720       | 2428.160 | 2445.880 | ≥0.5       | PASS    |
|          | Ant1    | 2462    | 17.640       | 2453.200 | 2470.840 | ≥0.5       | PASS    |
|          | Ant2    | 2462    | 17.680       | 2453.120 | 2470.800 | ≥0.5       | PASS    |
| 11N40    | Ant1    | 2422    | 35.520       | 2404.120 | 2439.640 | ≥0.5       | PASS    |
|          | Ant2    | 2422    | 36.480       | 2403.760 | 2440.240 | ≥0.5       | PASS    |
|          | Ant1    | 2437    | 35.760       | 2419.120 | 2454.880 | ≥0.5       | PASS    |
|          | Ant2    | 2437    | 36.420       | 2418.820 | 2455.240 | ≥0.5       | PASS    |
|          | Ant1    | 2452    | 35.760       | 2434.120 | 2469.880 | ≥0.5       | PASS    |
|          | Ant2    | 2452    | 35.580       | 2434.060 | 2469.640 | ≥0.5       | PASS    |

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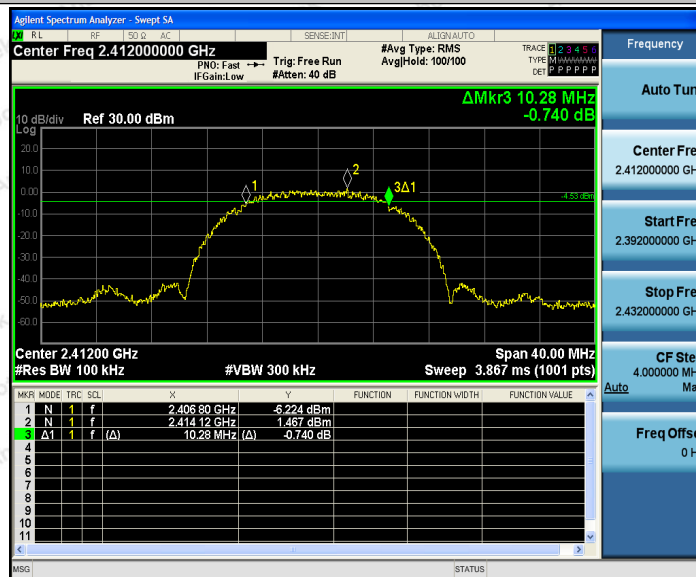
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## Test Graphs

11B\_Ant1\_2412



11B\_Ant2\_2412



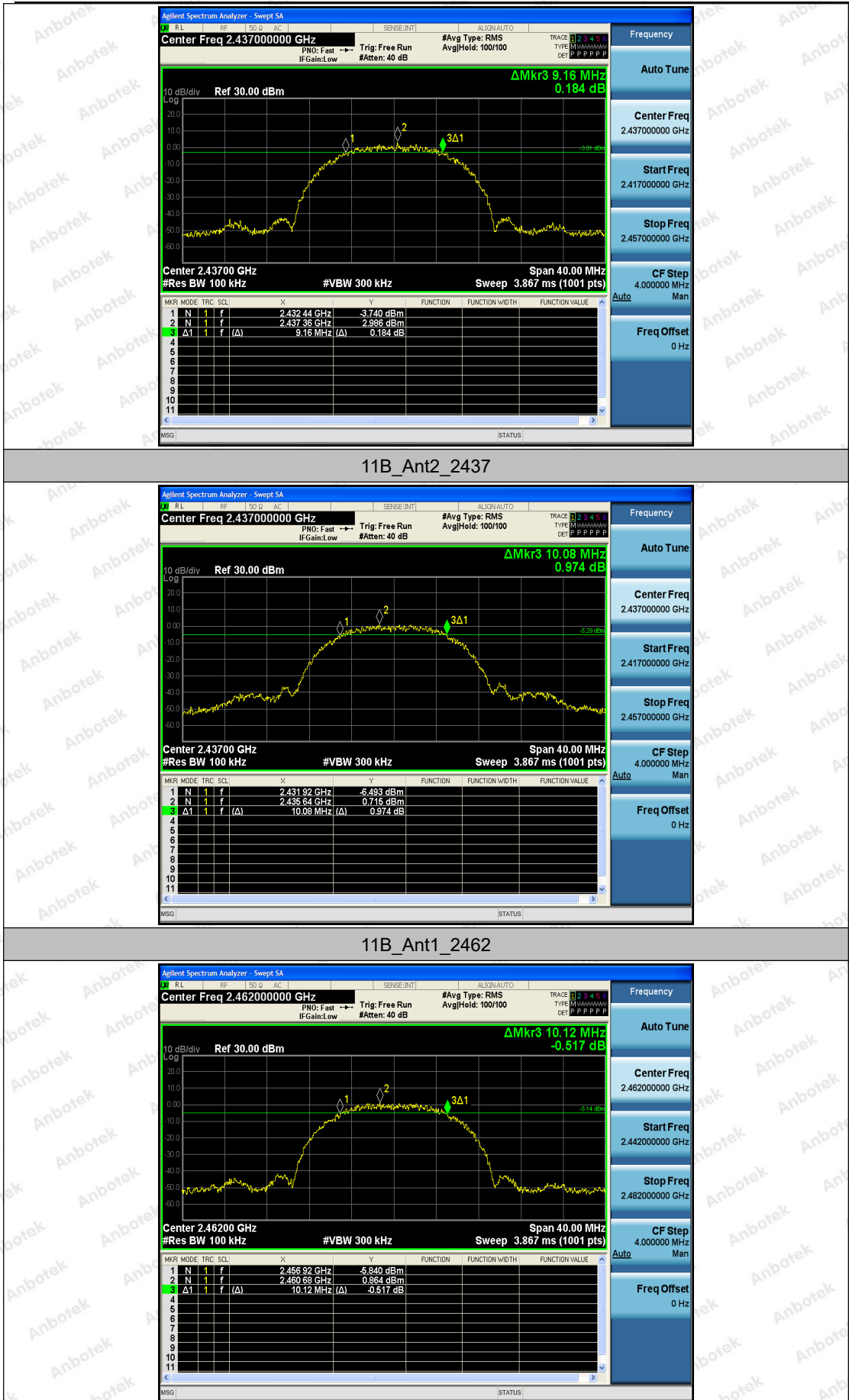
11B\_Ant1\_2437

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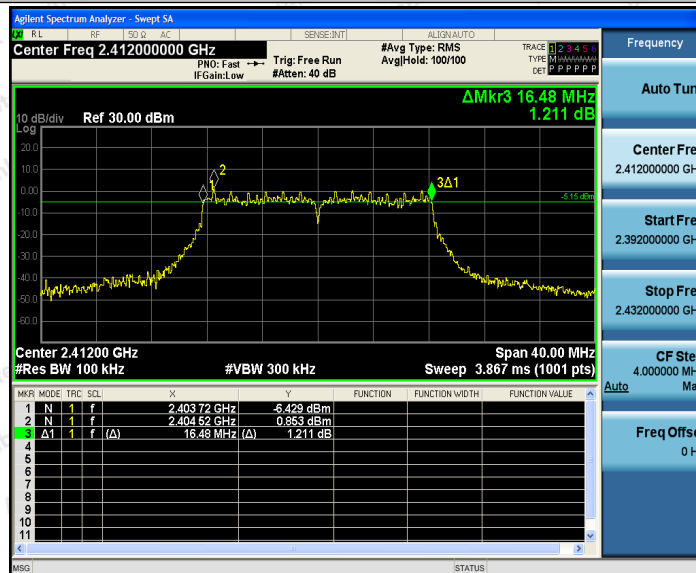
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11B\_Ant2\_2462



11G\_Ant1\_2412



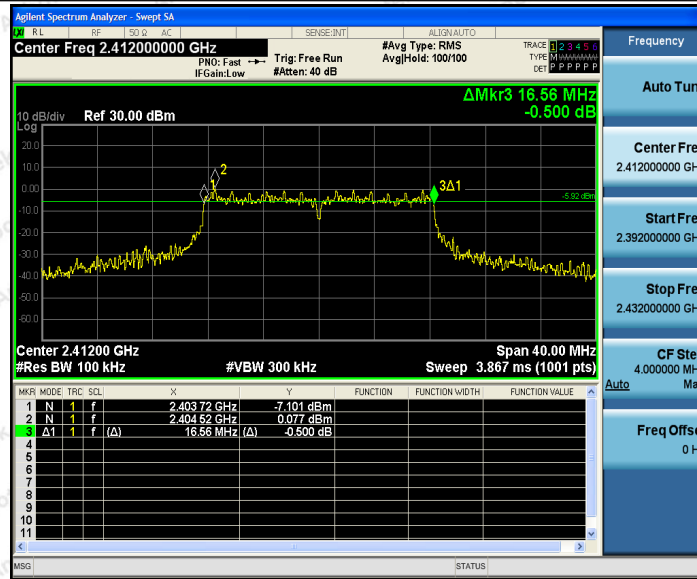
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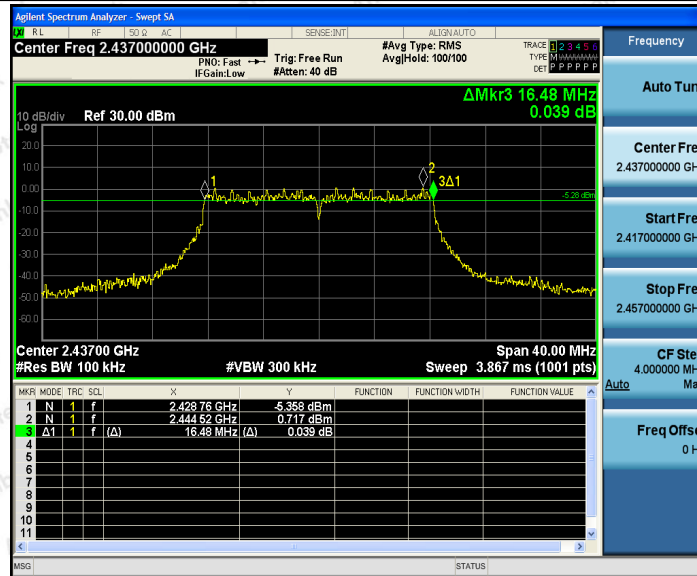
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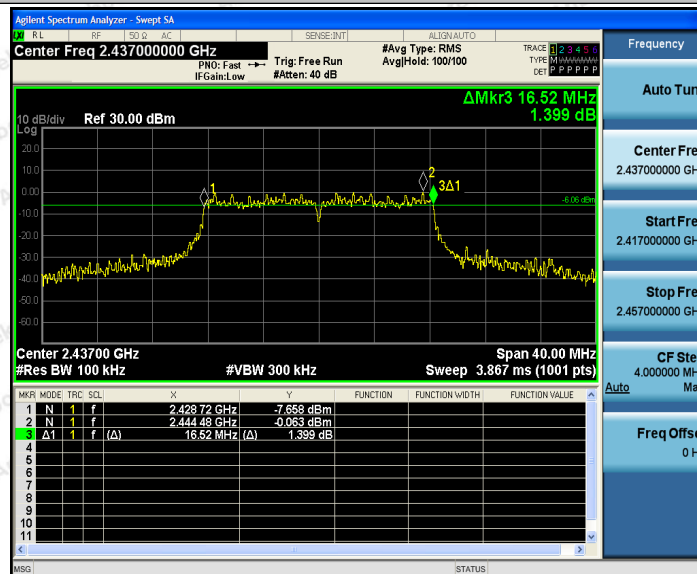
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11G\_Ant1\_2437



11G\_Ant2\_2437



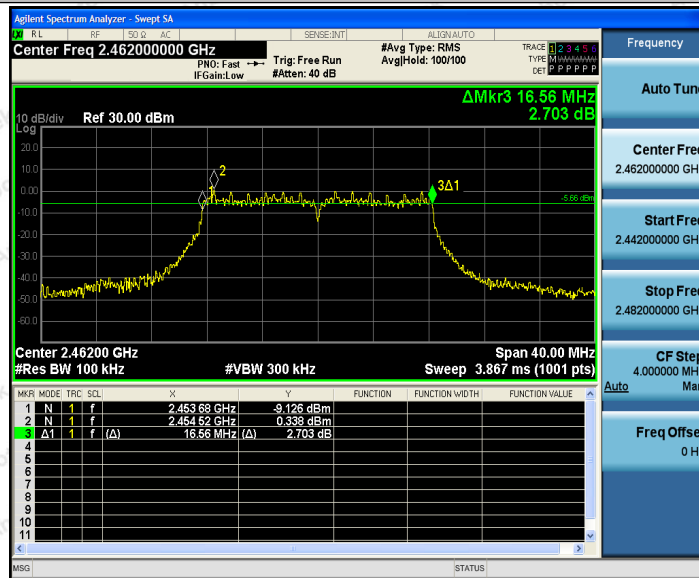
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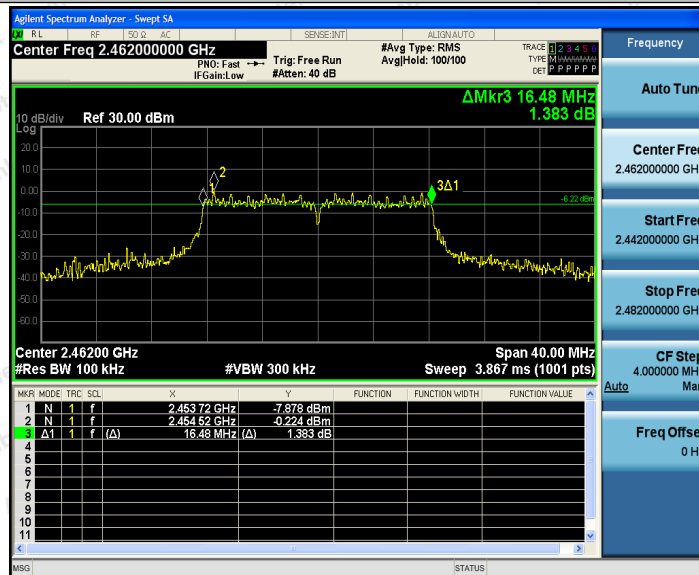
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## 11G\_Ant1\_2462



## 11G\_Ant2\_2462



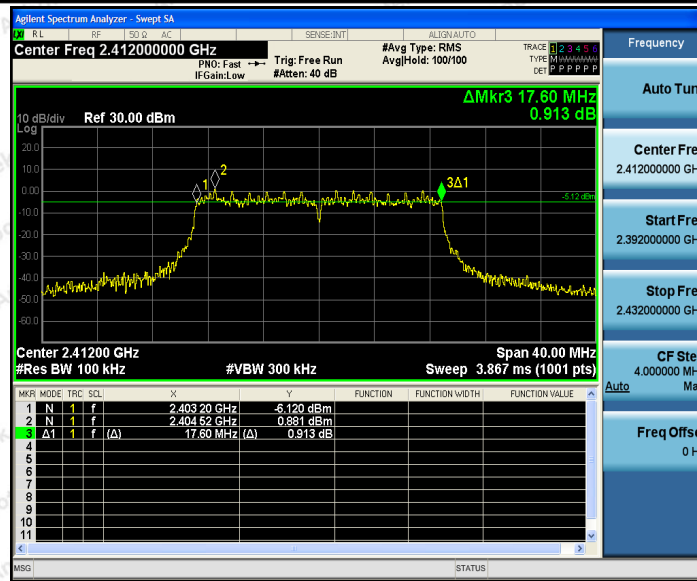
## 11N20\_Ant1\_2412

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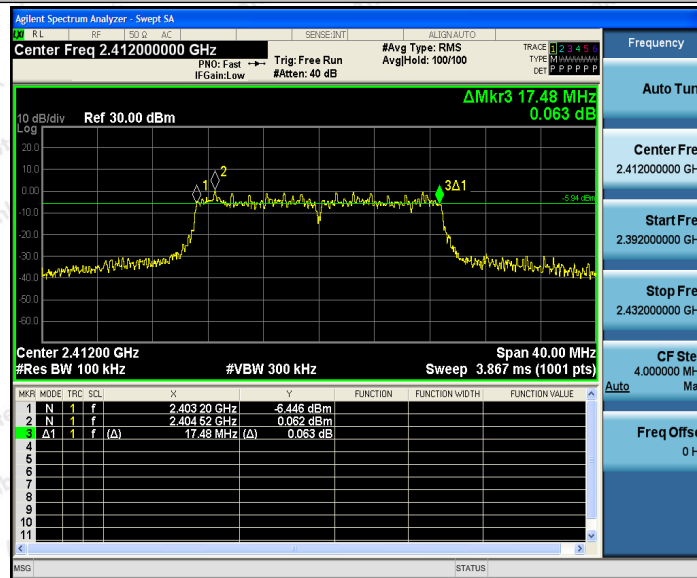
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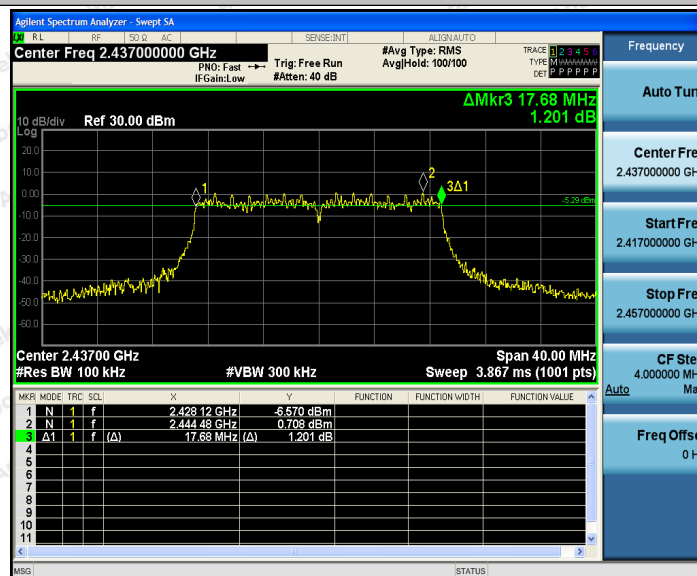
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11N20\_Ant2\_2412



11N20\_Ant1\_2437



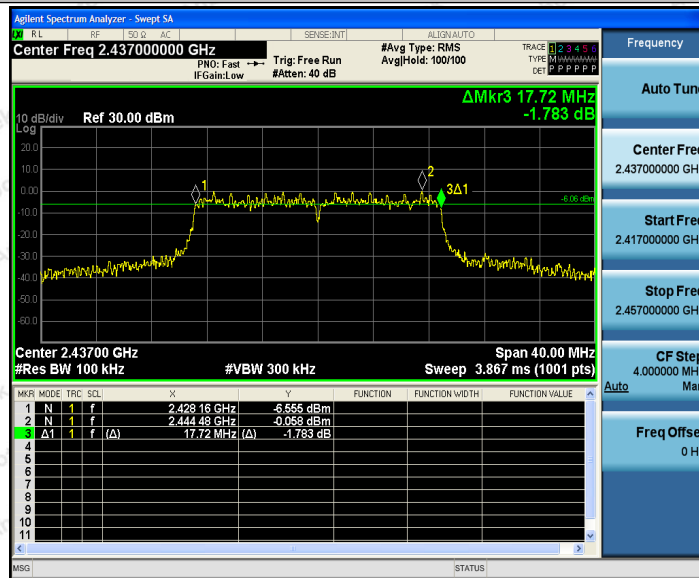
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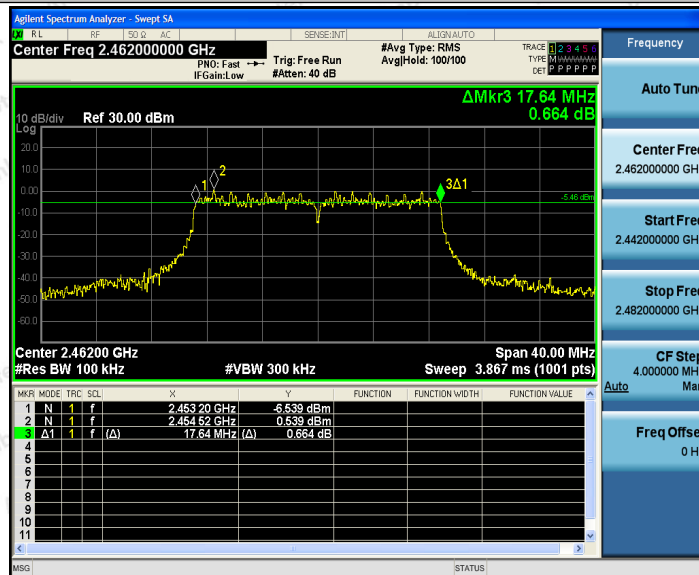
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11N20\_Ant2\_2437



11N20\_Ant1\_2462



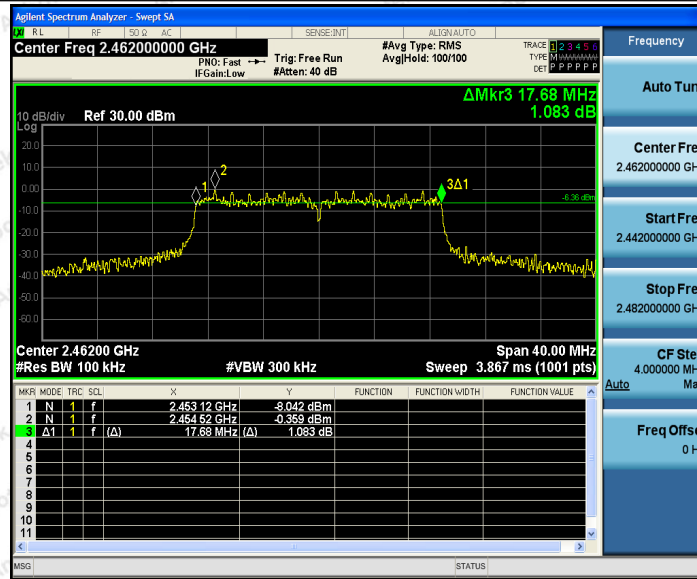
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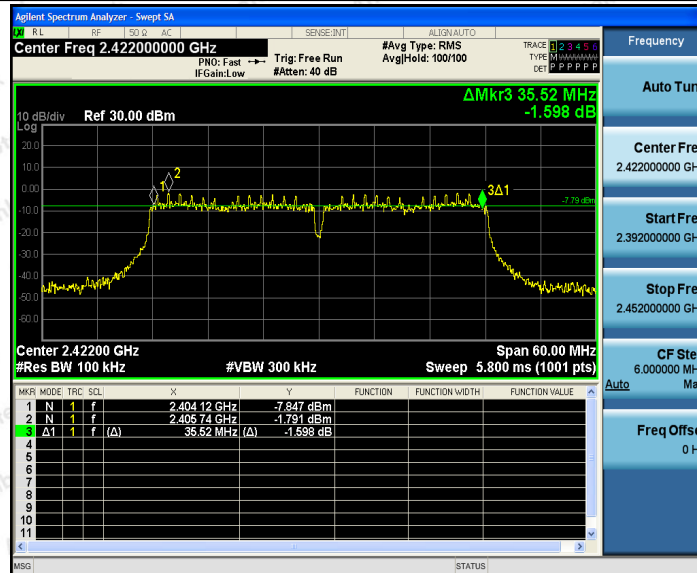
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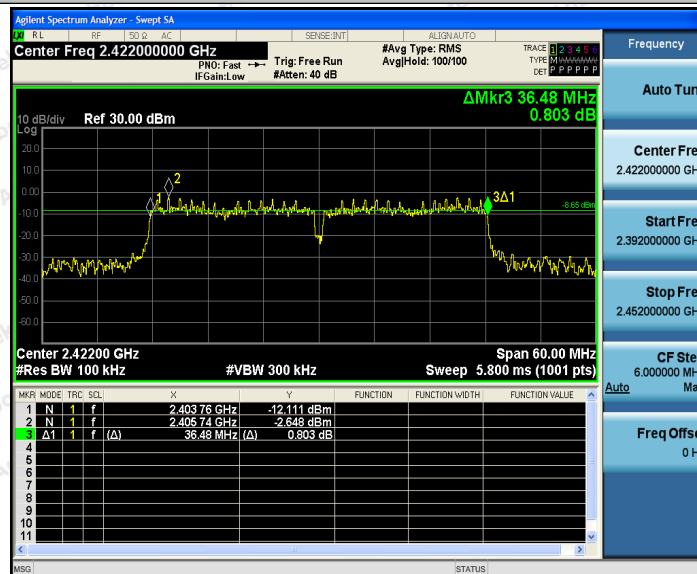
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11N40\_Ant1\_2422



11N40\_Ant2\_2422



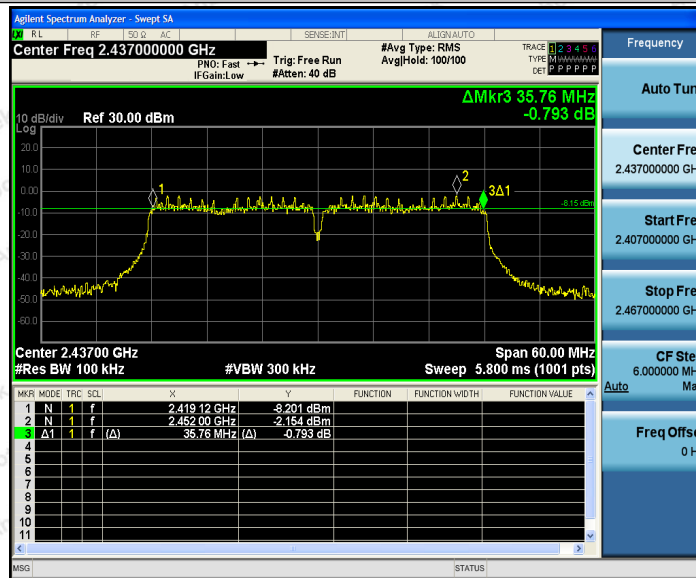
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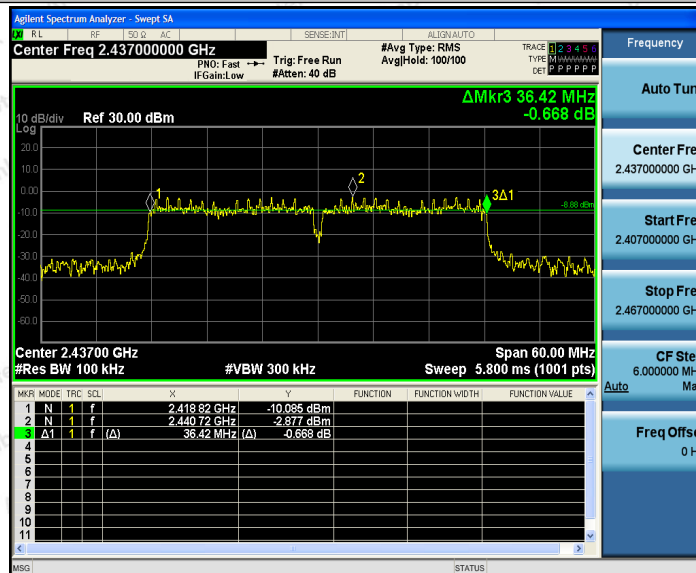
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11N40\_Ant1\_2437



11N40\_Ant2\_2437



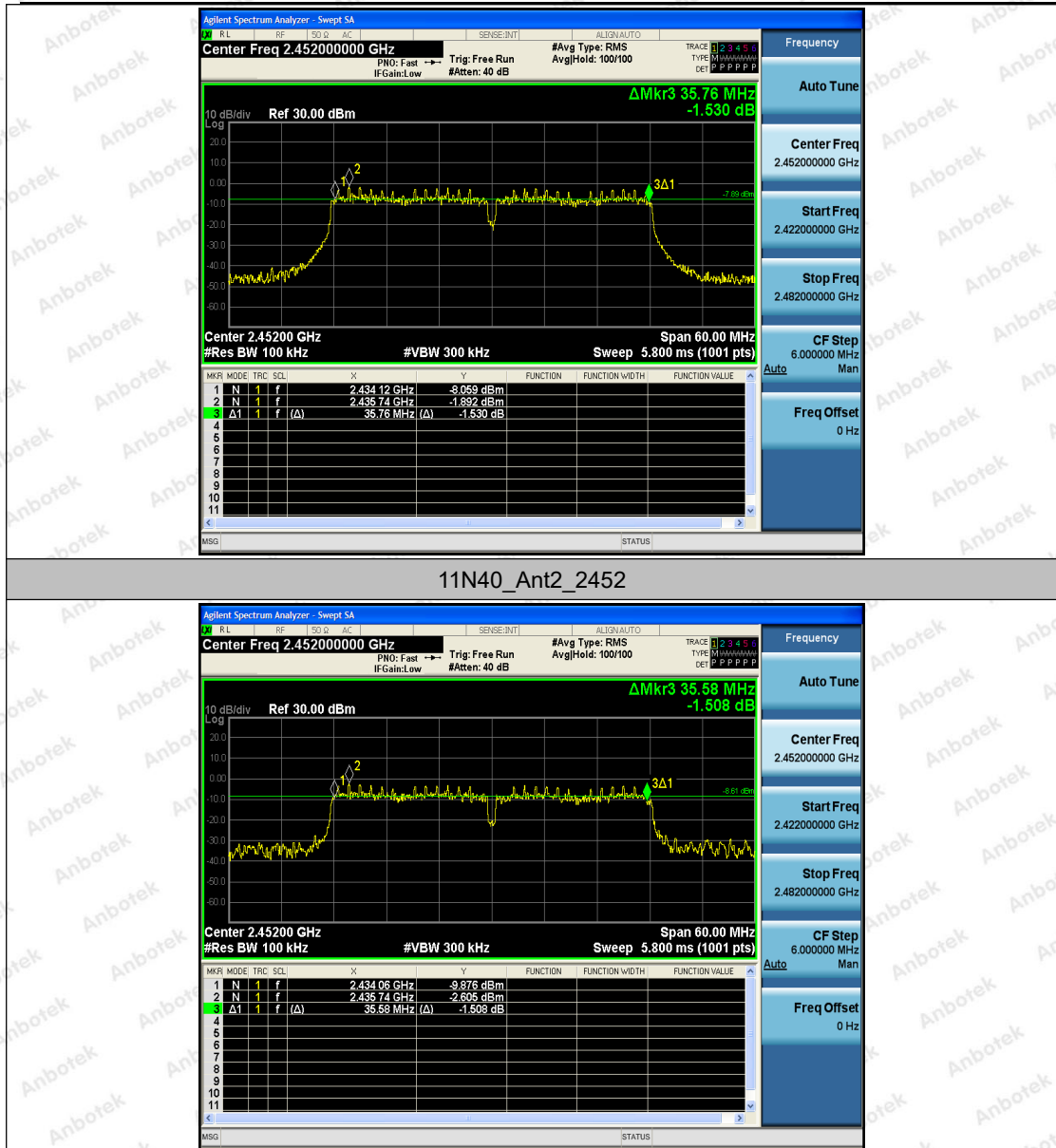
11N40\_Ant1\_2452

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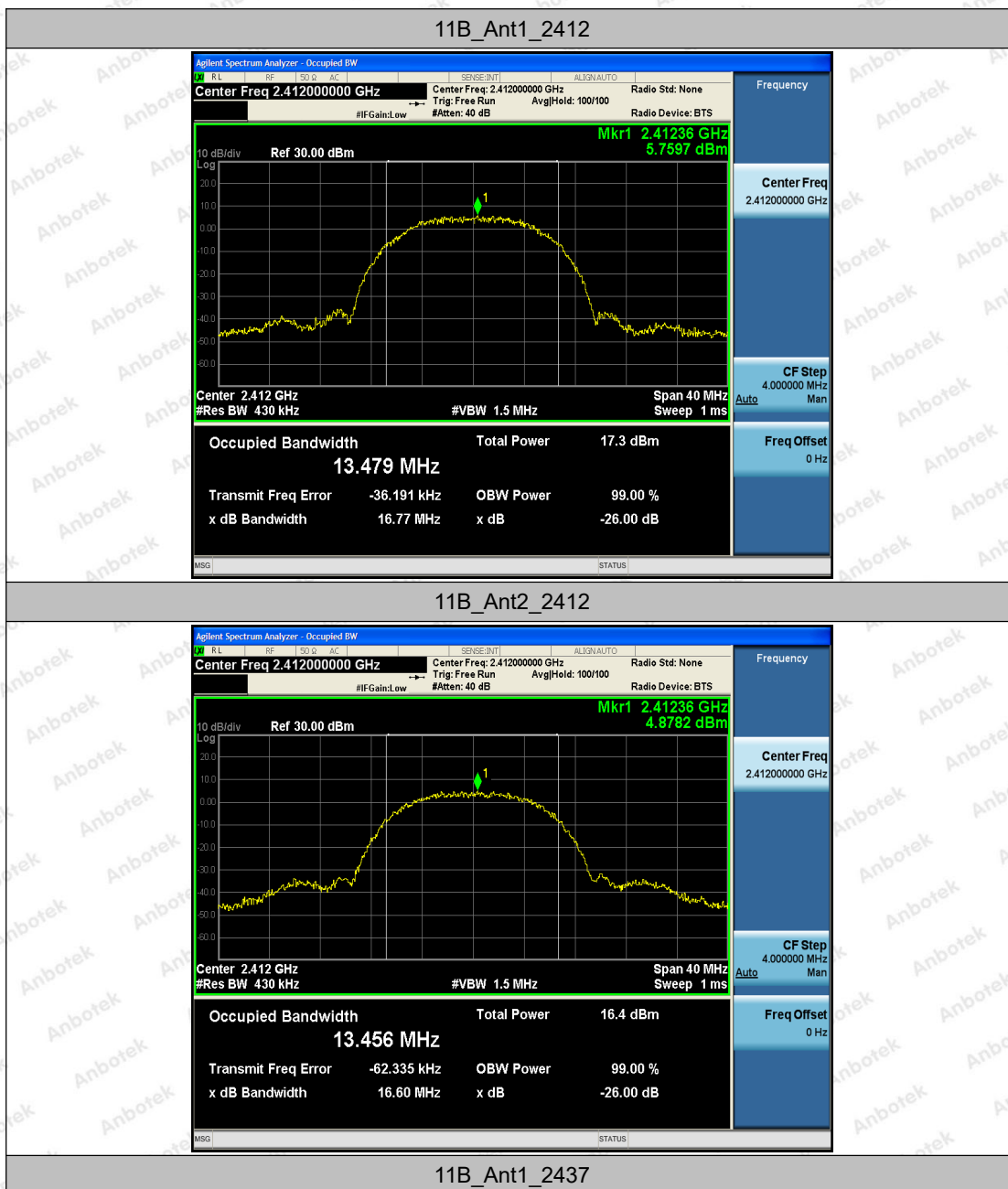
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| 11B      | Ant1    | 2412    | 13.479    | 2405.224 | 2418.703 | ---        | PASS    |
|          | Ant2    | 2412    | 13.456    | 2405.210 | 2418.666 | ---        | PASS    |
|          | Ant1    | 2437    | 13.425    | 2430.310 | 2443.735 | ---        | PASS    |
|          | Ant2    | 2437    | 13.406    | 2430.287 | 2443.693 | ---        | PASS    |
|          | Ant1    | 2462    | 13.489    | 2455.220 | 2468.709 | ---        | PASS    |
|          | Ant2    | 2462    | 13.466    | 2455.222 | 2468.688 | ---        | PASS    |
| 11G      | Ant1    | 2412    | 16.876    | 2403.556 | 2420.432 | ---        | PASS    |
|          | Ant2    | 2412    | 17.031    | 2403.471 | 2420.502 | ---        | PASS    |
|          | Ant1    | 2437    | 16.877    | 2428.562 | 2445.439 | ---        | PASS    |
|          | Ant2    | 2437    | 16.999    | 2428.483 | 2445.482 | ---        | PASS    |
|          | Ant1    | 2462    | 16.879    | 2453.524 | 2470.403 | ---        | PASS    |
|          | Ant2    | 2462    | 17.061    | 2453.465 | 2470.526 | ---        | PASS    |
| 11N20    | Ant1    | 2412    | 17.860    | 2403.070 | 2420.930 | ---        | PASS    |
|          | Ant2    | 2412    | 17.919    | 2403.008 | 2420.927 | ---        | PASS    |
|          | Ant1    | 2437    | 17.883    | 2428.052 | 2445.935 | ---        | PASS    |
|          | Ant2    | 2437    | 17.868    | 2428.070 | 2445.938 | ---        | PASS    |
|          | Ant1    | 2462    | 17.911    | 2453.013 | 2470.924 | ---        | PASS    |
|          | Ant2    | 2462    | 17.986    | 2453.005 | 2470.991 | ---        | PASS    |
| 11N40    | Ant1    | 2422    | 36.214    | 2403.893 | 2440.107 | ---        | PASS    |
|          | Ant2    | 2422    | 36.466    | 2403.764 | 2440.230 | ---        | PASS    |
|          | Ant1    | 2437    | 36.264    | 2418.876 | 2455.140 | ---        | PASS    |
|          | Ant2    | 2437    | 36.366    | 2418.838 | 2455.204 | ---        | PASS    |
|          | Ant1    | 2452    | 36.200    | 2433.897 | 2470.097 | ---        | PASS    |
|          | Ant2    | 2452    | 36.418    | 2433.791 | 2470.209 | ---        | PASS    |

## Test Graphs

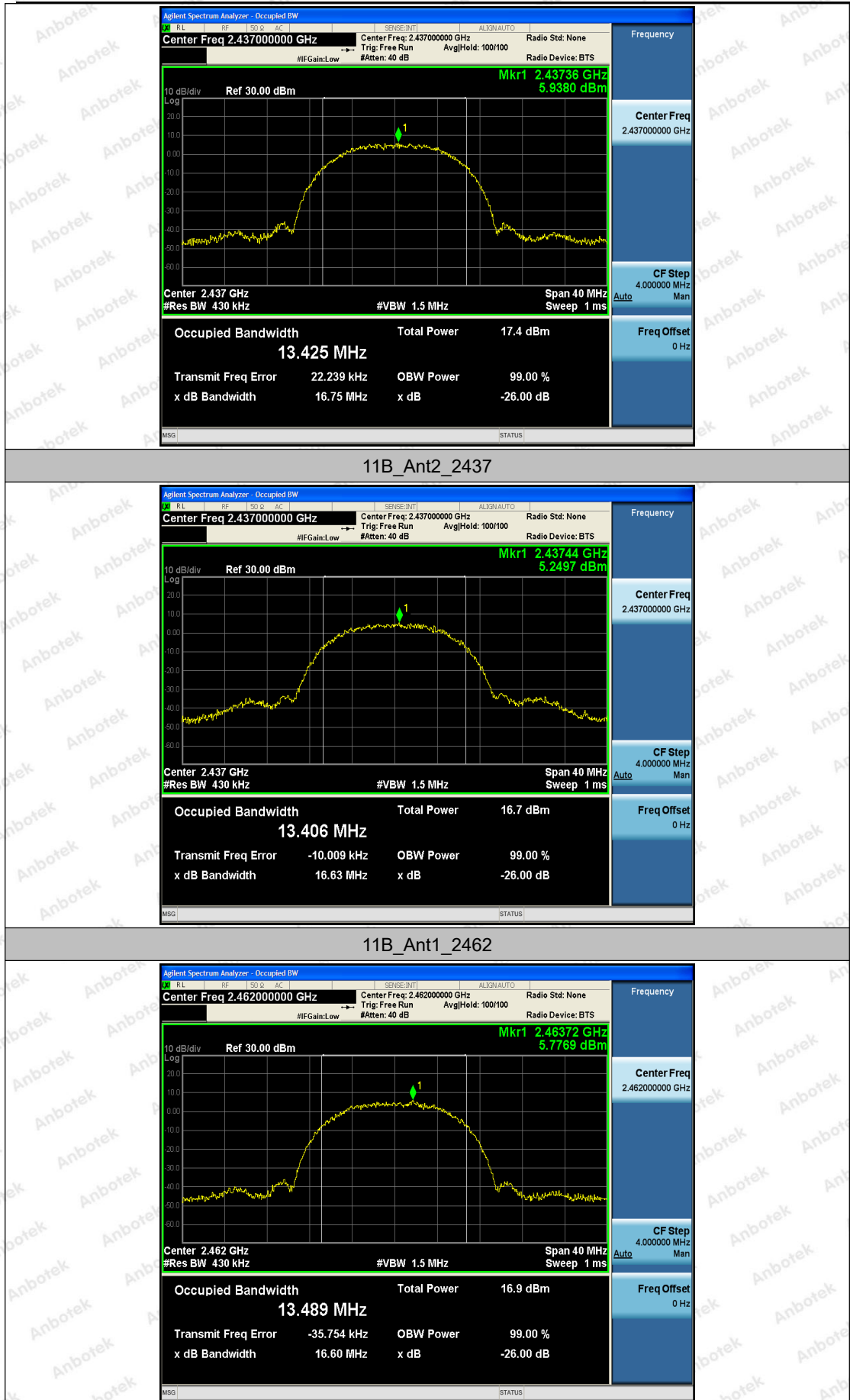


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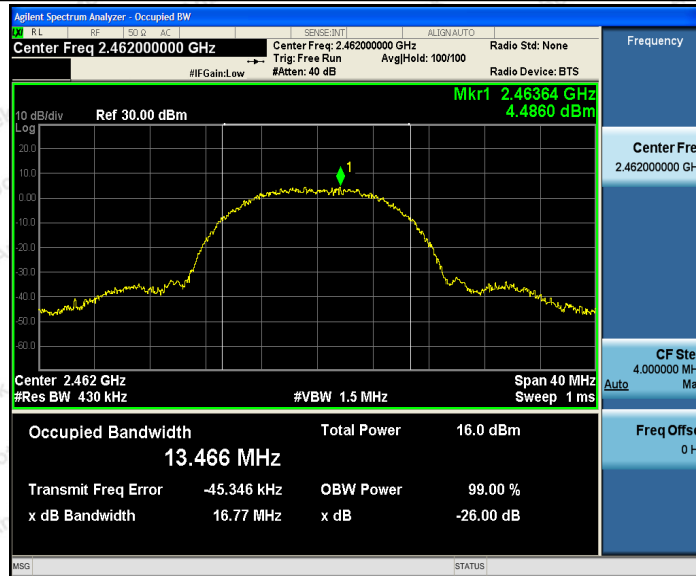
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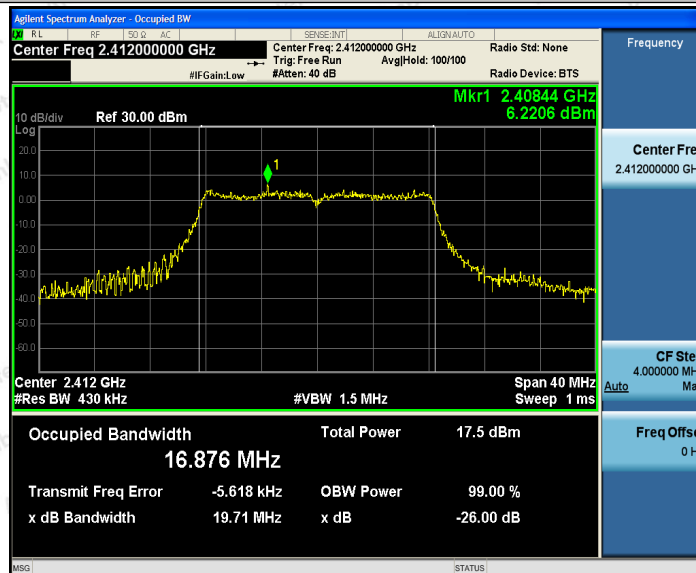
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## 11B\_Ant2\_2462



## 11G\_Ant1\_2412



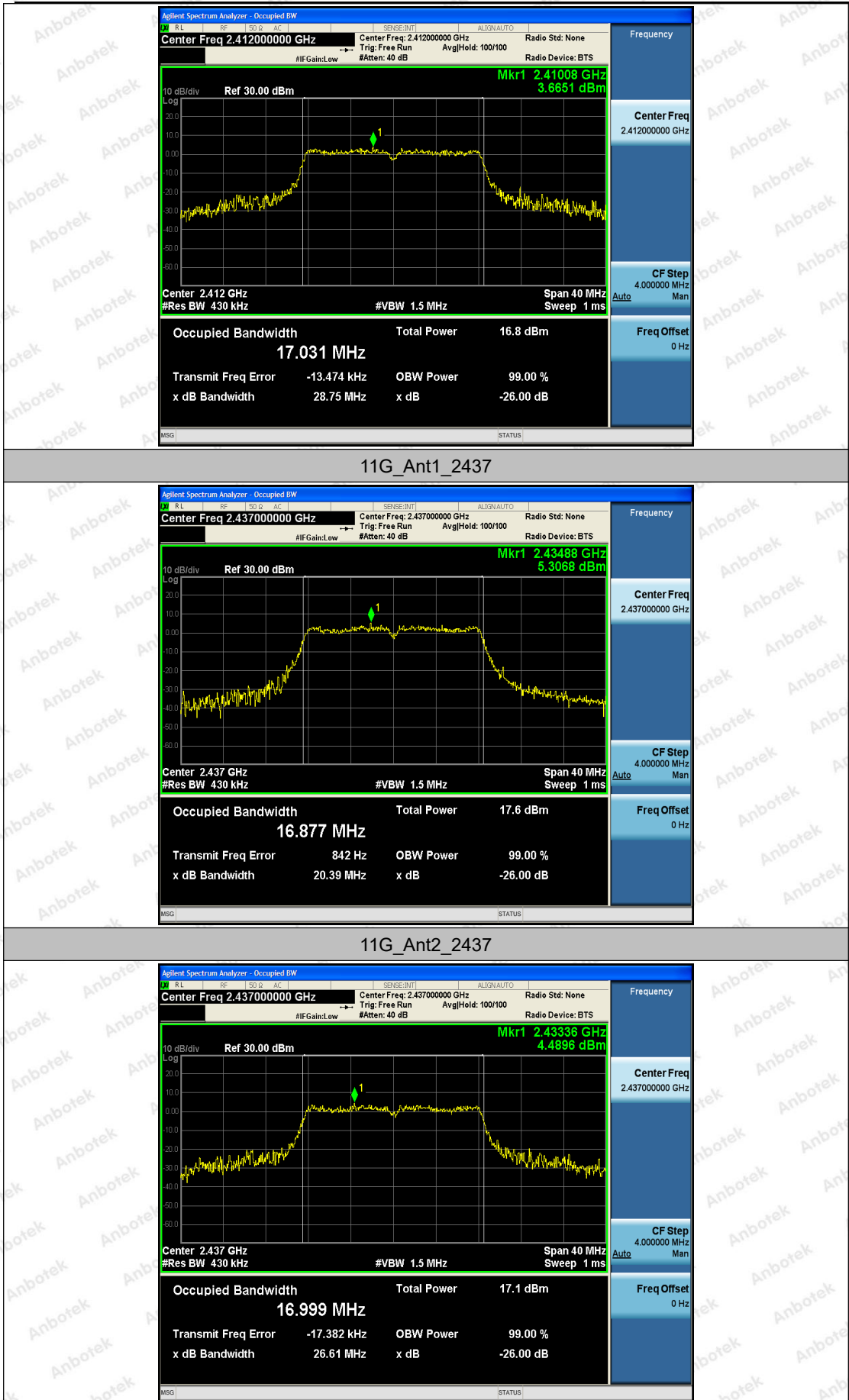
## 11G\_Ant2\_2412

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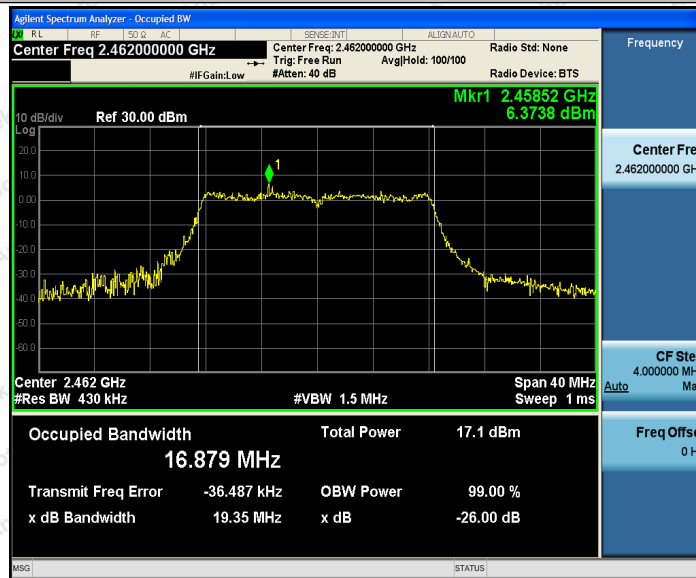
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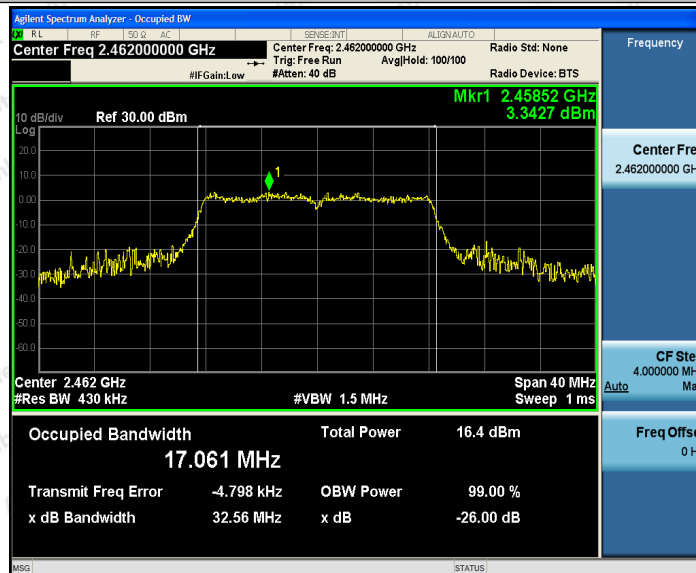
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## 11G\_Ant1\_2462



## 11G\_Ant2\_2462



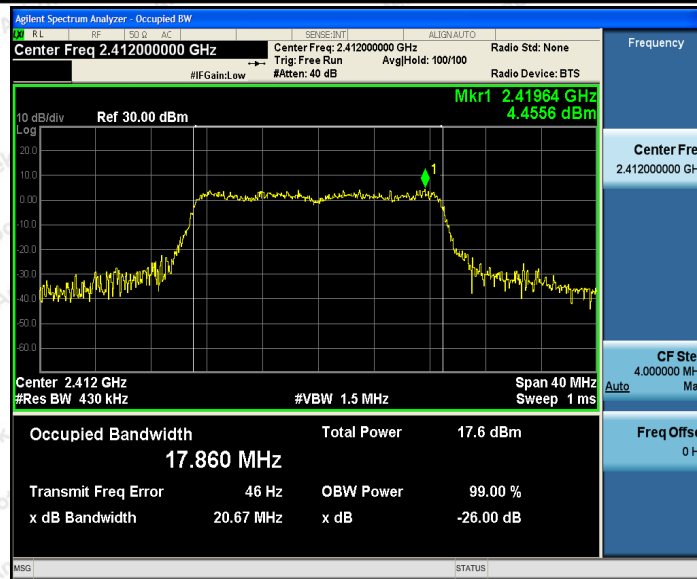
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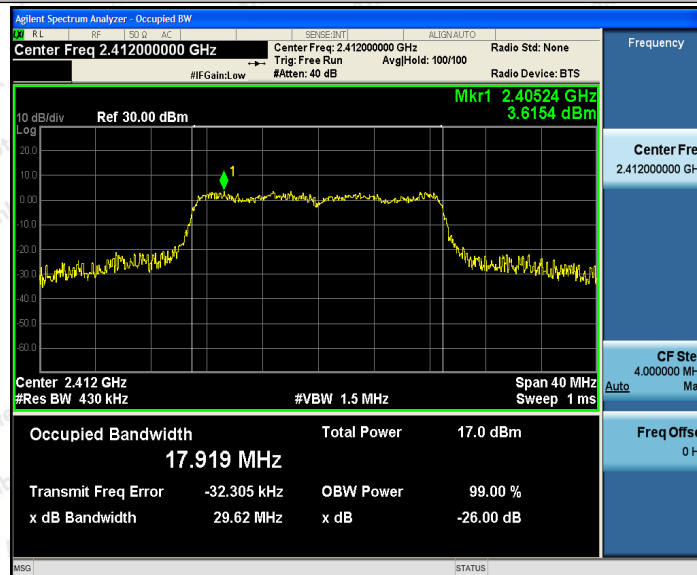
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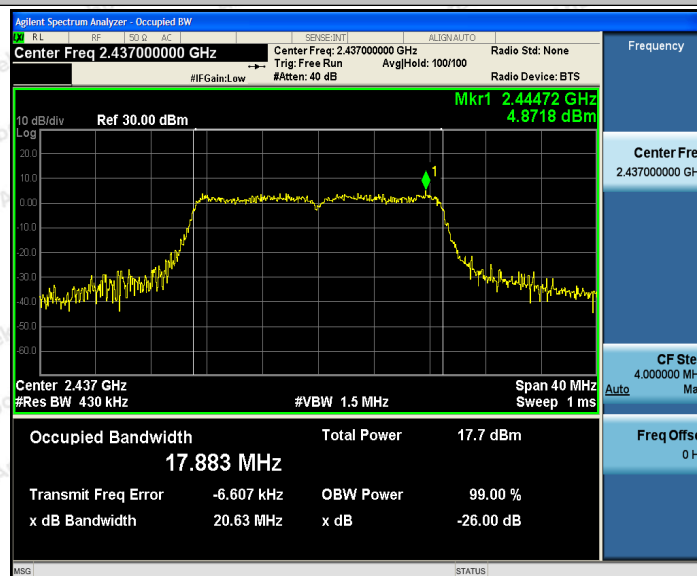
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11N20\_Ant2\_2412



11N20\_Ant1\_2437

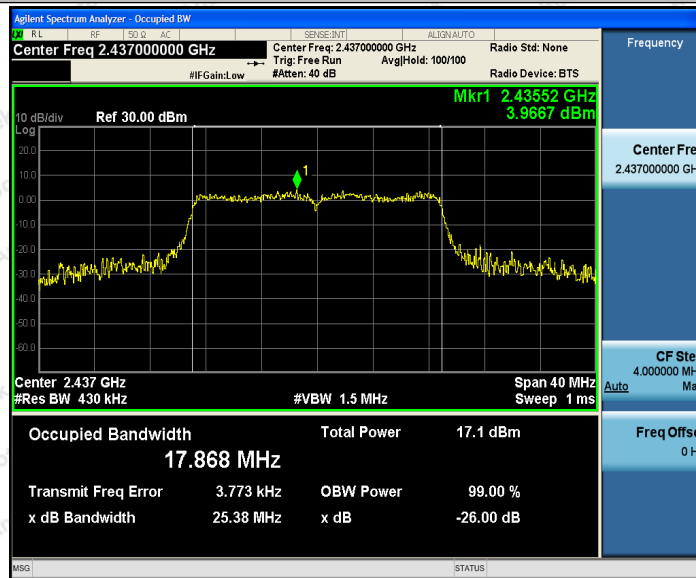
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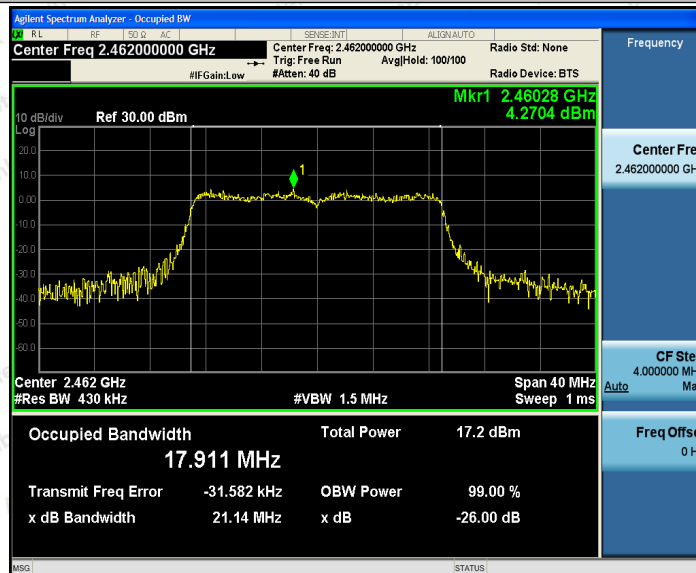
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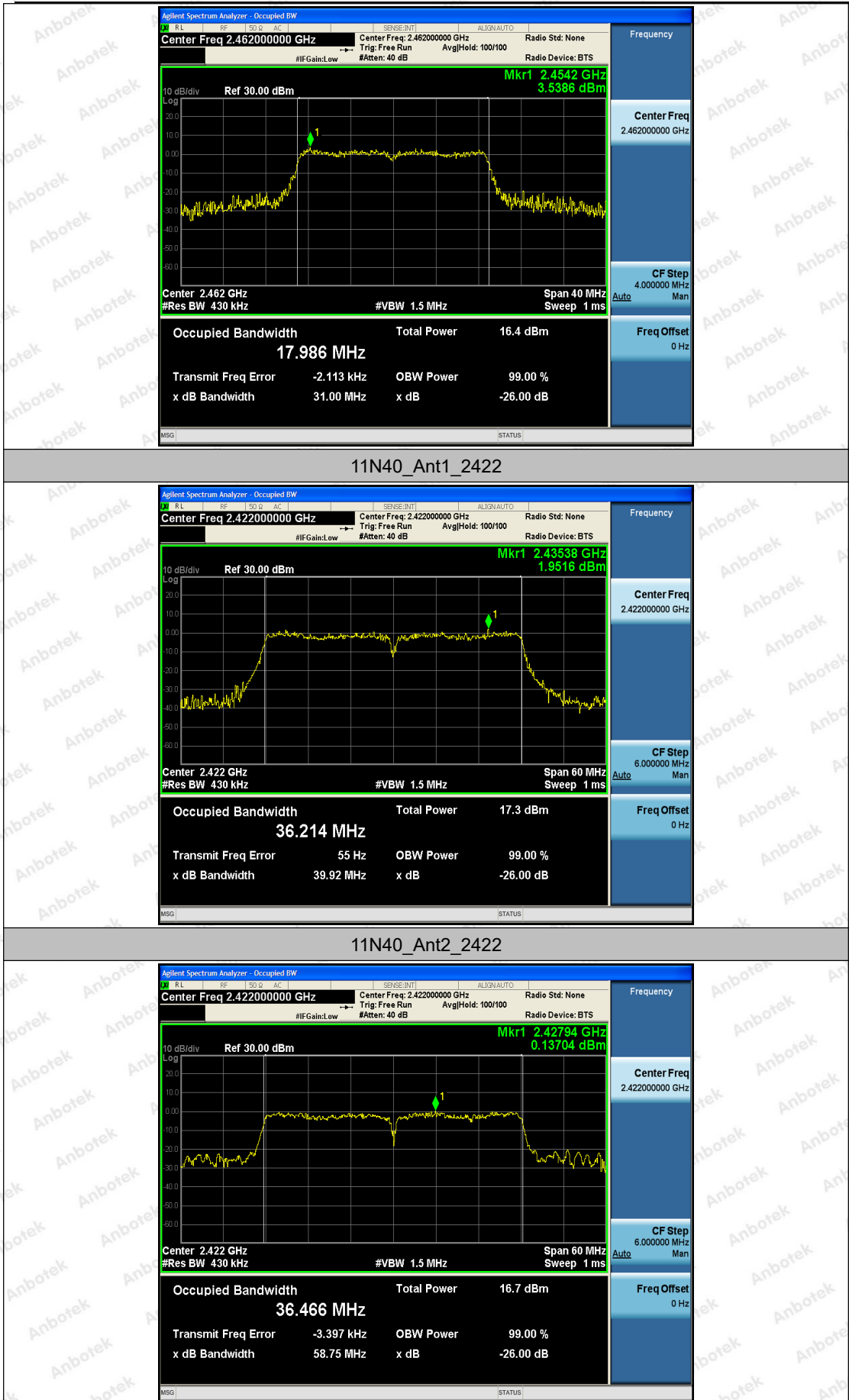
11N20\_Ant2\_2437



11N20\_Ant1\_2462



11N20\_Ant2\_2462



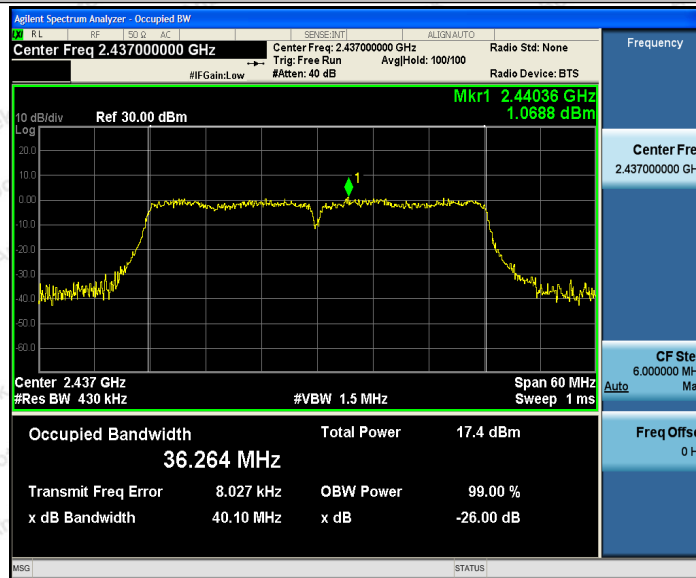
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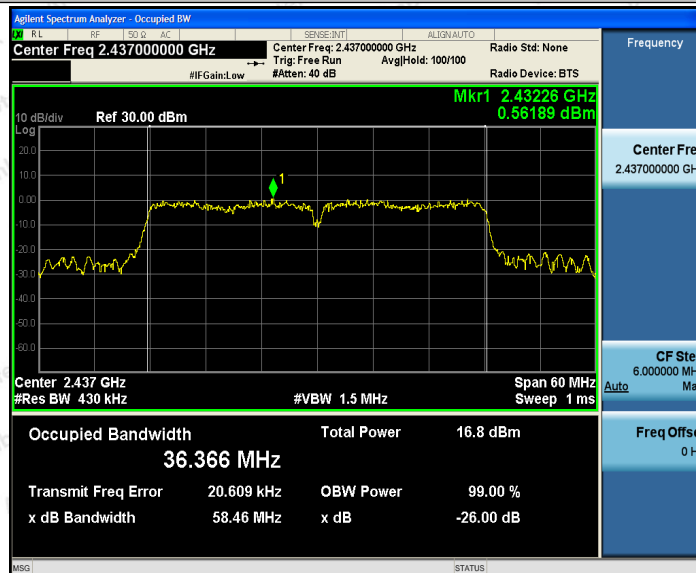
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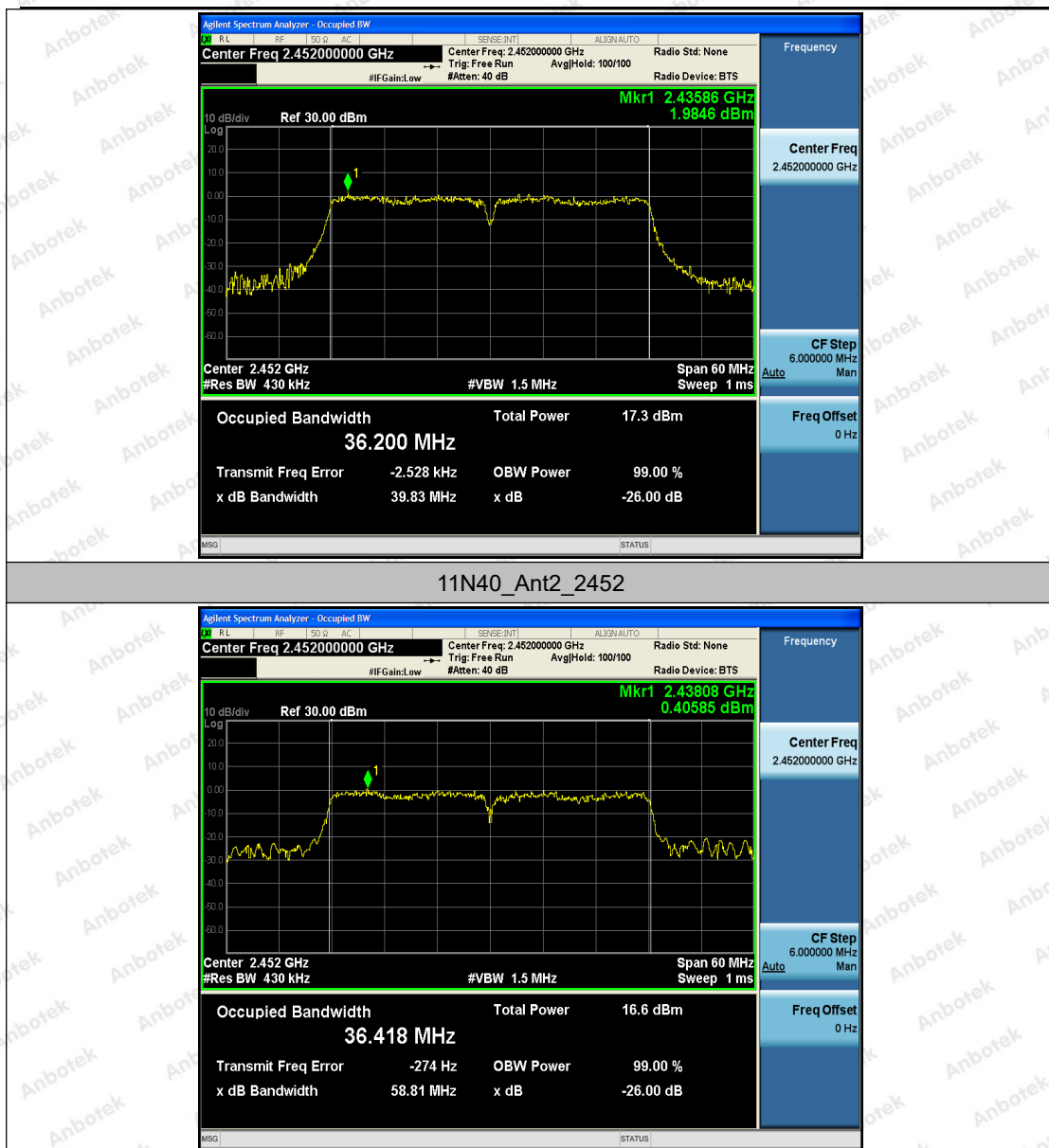
11N40\_Ant1\_2437



11N40\_Ant2\_2437



11N40\_Ant1\_2452

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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| 11B      | Ant1    | 2412    | 16.74       | ≤30        | PASS    |
|          | Ant2    | 2412    | 15.86       | ≤30        | PASS    |
|          | Ant1    | 2437    | 16.87       | ≤30        | PASS    |
|          | Ant2    | 2437    | 16.17       | ≤30        | PASS    |
|          | Ant1    | 2462    | 16.48       | ≤30        | PASS    |
|          | Ant2    | 2462    | 15.52       | ≤30        | PASS    |
| 11G      | Ant1    | 2412    | 18.26       | ≤30        | PASS    |
|          | Ant2    | 2412    | 17.66       | ≤30        | PASS    |
|          | Ant1    | 2437    | 18.46       | ≤30        | PASS    |
|          | Ant2    | 2437    | 18.02       | ≤30        | PASS    |
|          | Ant1    | 2462    | 17.92       | ≤30        | PASS    |
|          | Ant2    | 2462    | 17.35       | ≤30        | PASS    |
| 11N20    | Ant1    | 2412    | 18.41       | ≤30        | PASS    |
|          | Ant2    | 2412    | 17.77       | ≤30        | PASS    |
|          | Ant1    | 2437    | 18.61       | ≤30        | PASS    |
|          | Ant2    | 2437    | 17.97       | ≤30        | PASS    |
|          | Ant1    | 2462    | 18.08       | ≤30        | PASS    |
|          | Ant2    | 2462    | 17.40       | ≤30        | PASS    |
| 11N40    | Ant1    | 2422    | 15.26       | ≤30        | PASS    |
|          | Ant2    | 2422    | 14.63       | ≤30        | PASS    |
|          | Ant1    | 2437    | 15.48       | ≤30        | PASS    |
|          | Ant2    | 2437    | 15.01       | ≤30        | PASS    |
|          | Ant1    | 2452    | 15.33       | ≤30        | PASS    |
|          | Ant2    | 2452    | 14.59       | ≤30        | PASS    |

### MIMO

| TestMode | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-------------|------------|---------|
| 11N20    | 2412    | 21.11       | ≤30        | PASS    |
|          | 2437    | 21.31       | ≤30        | PASS    |
|          | 2462    | 20.76       | ≤30        | PASS    |
| 11N40    | 2412    | 17.97       | ≤30        | PASS    |
|          | 2437    | 18.26       | ≤30        | PASS    |
|          | 2462    | 17.99       | ≤30        | PASS    |

## Appendix D: Maximum power spectral density

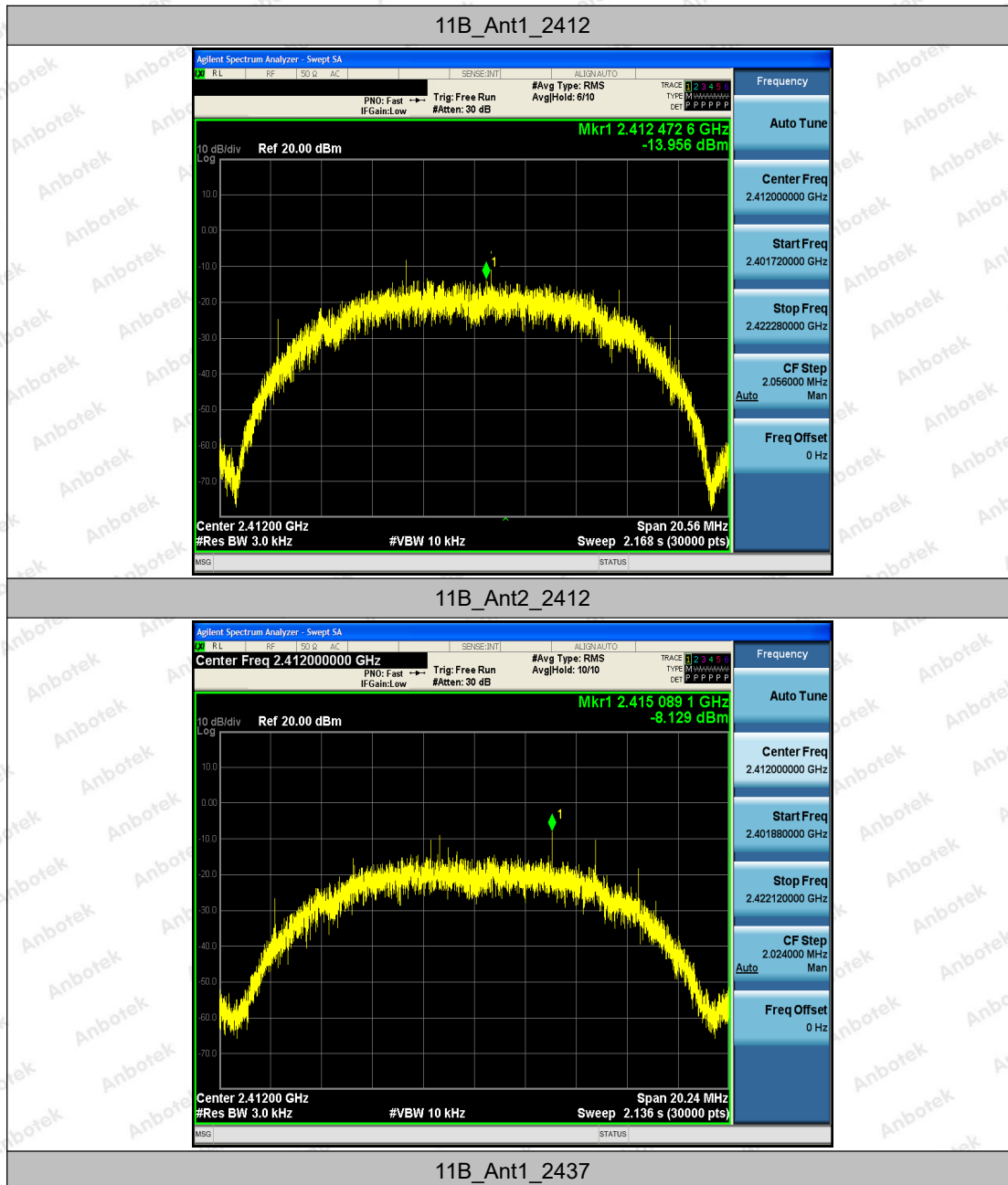
### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| 11B      | Ant1    | 2412    | -13.96           | ≤8              | PASS    |
|          | Ant2    | 2412    | -8.13            | ≤8              | PASS    |
|          | Ant1    | 2437    | -8.04            | ≤8              | PASS    |
|          | Ant2    | 2437    | -6.87            | ≤8              | PASS    |
|          | Ant1    | 2462    | -5.53            | ≤8              | PASS    |
|          | Ant2    | 2462    | -8.47            | ≤8              | PASS    |
| 11G      | Ant1    | 2412    | -12.11           | ≤8              | PASS    |
|          | Ant2    | 2412    | -13.14           | ≤8              | PASS    |
|          | Ant1    | 2437    | -12.15           | ≤8              | PASS    |
|          | Ant2    | 2437    | -12.82           | ≤8              | PASS    |
|          | Ant1    | 2462    | -12.17           | ≤8              | PASS    |
|          | Ant2    | 2462    | -12.99           | ≤8              | PASS    |
| 11N20    | Ant1    | 2412    | -11.38           | ≤8              | PASS    |
|          | Ant2    | 2412    | -11.15           | ≤8              | PASS    |
|          | Ant1    | 2437    | -10.7            | ≤8              | PASS    |
|          | Ant2    | 2437    | -11.57           | ≤8              | PASS    |
|          | Ant1    | 2462    | -12.06           | ≤8              | PASS    |
|          | Ant2    | 2462    | -11.8            | ≤8              | PASS    |
| 11N40    | Ant1    | 2422    | -13.86           | ≤8              | PASS    |
|          | Ant2    | 2422    | -14.52           | ≤8              | PASS    |
|          | Ant1    | 2437    | -13.44           | ≤8              | PASS    |
|          | Ant2    | 2437    | -14              | ≤8              | PASS    |
|          | Ant1    | 2452    | -13.34           | ≤8              | PASS    |
|          | Ant2    | 2452    | -14.41           | ≤8              | PASS    |

### MIMO

| TestMode | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|------------------|-----------------|---------|
| 11N20    | 2412    | -8.25            | ≤8              | PASS    |
|          | 2437    | -8.10            | ≤8              | PASS    |
|          | 2462    | -8.92            | ≤8              | PASS    |
| 11N20    | 2412    | -11.17           | ≤8              | PASS    |
|          | 2437    | -10.70           | ≤8              | PASS    |
|          | 2462    | -10.83           | ≤8              | PASS    |

## Test Graphs

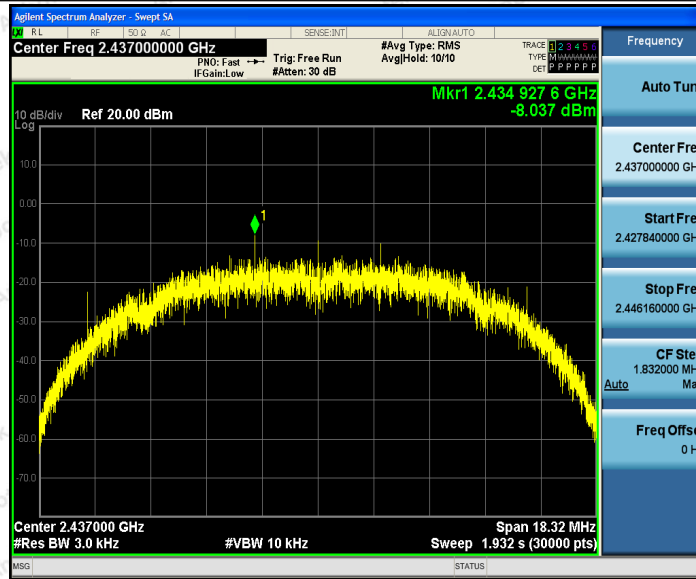


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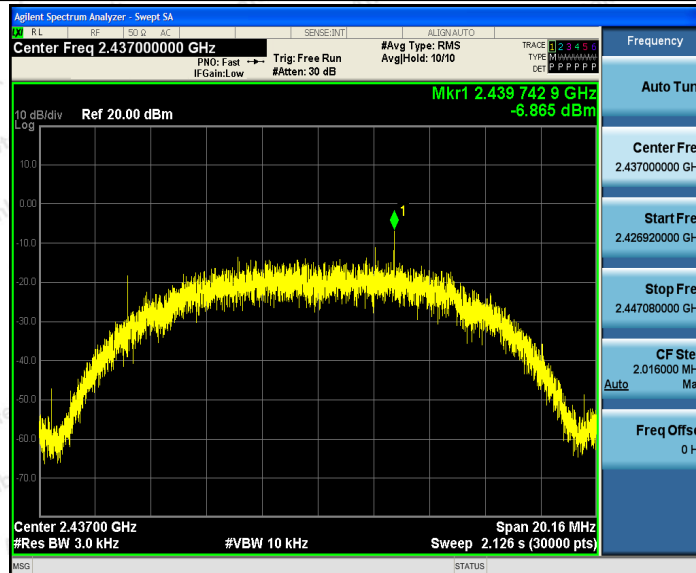
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

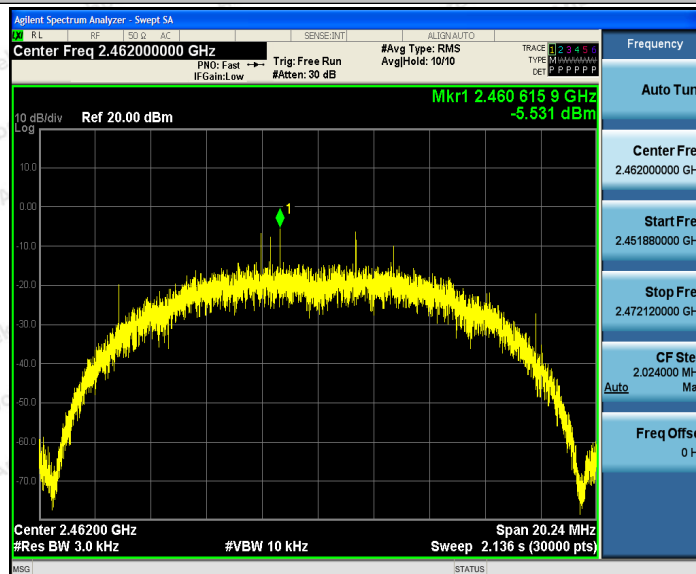
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11B\_Ant2\_2437



11B\_Ant1\_2462

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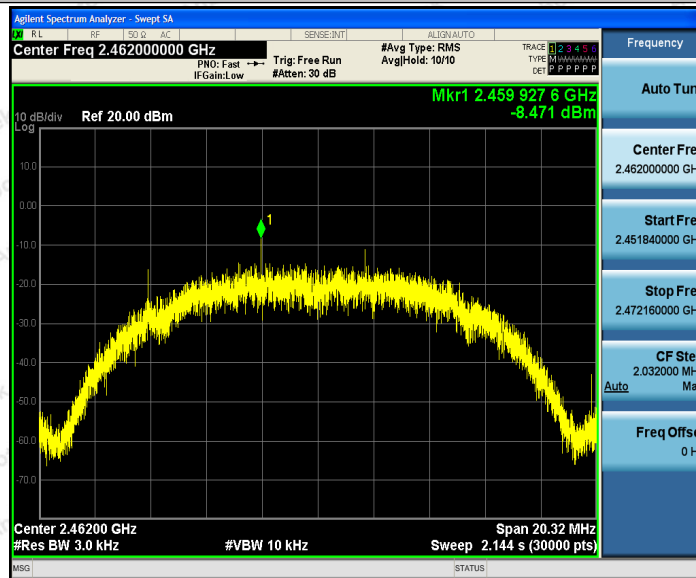


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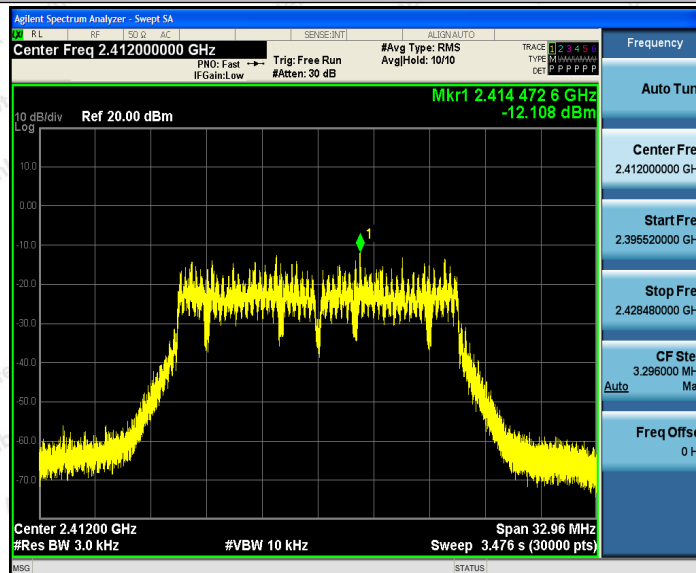
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11B\_Ant2\_2462



11G\_Ant1\_2412



11G\_Ant2\_2412

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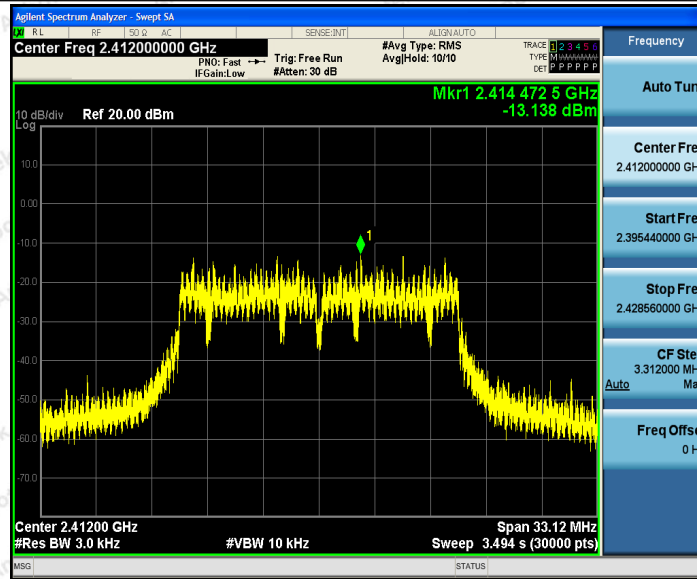
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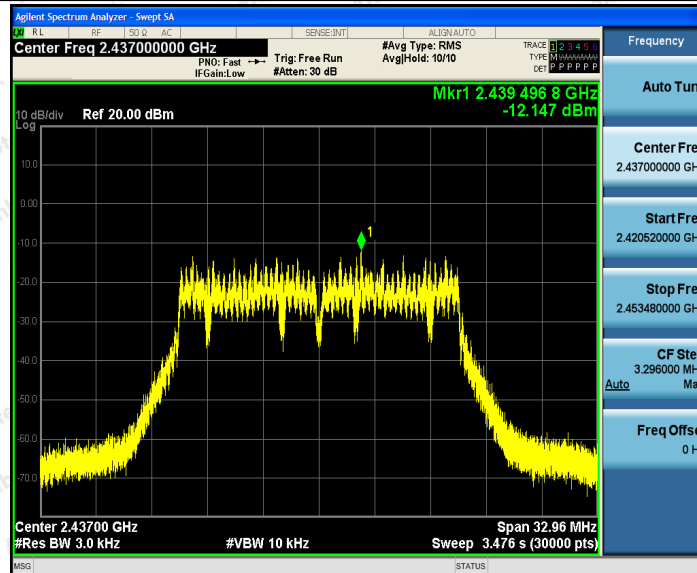
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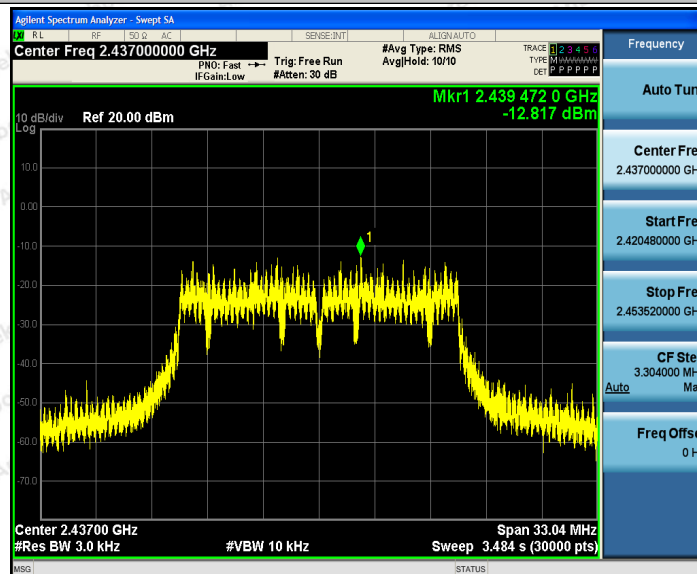
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11G\_Ant1\_2437



11G\_Ant2\_2437



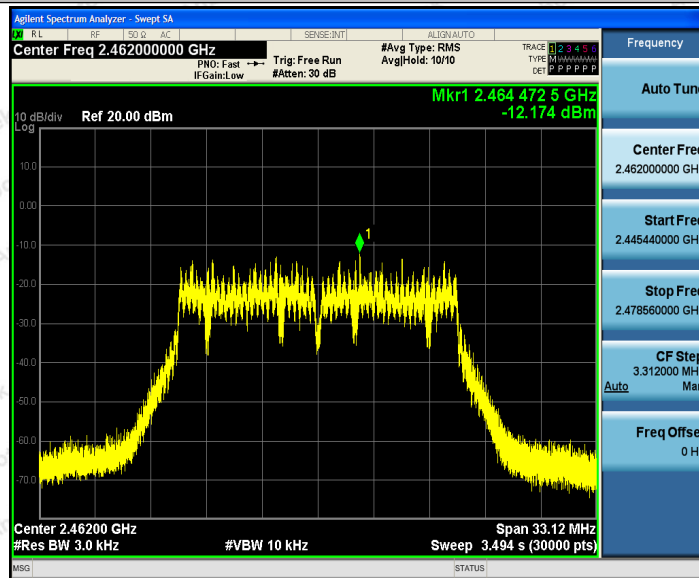
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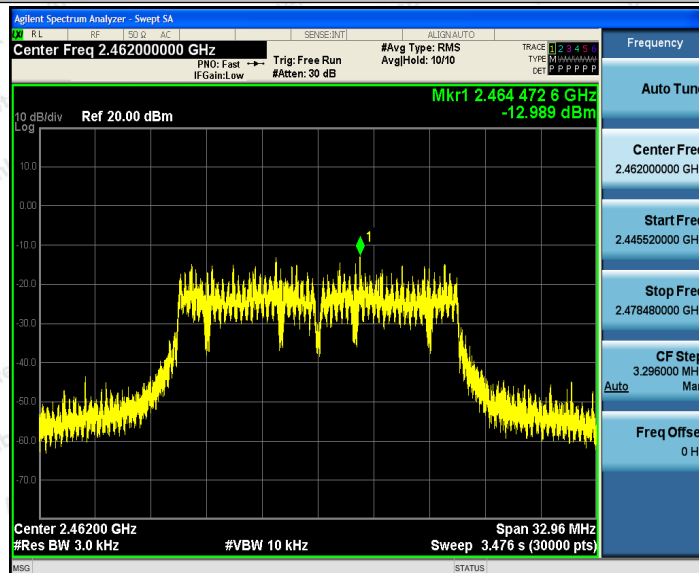
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11G\_Ant1\_2462



11G\_Ant2\_2462



11N20\_Ant1\_2412

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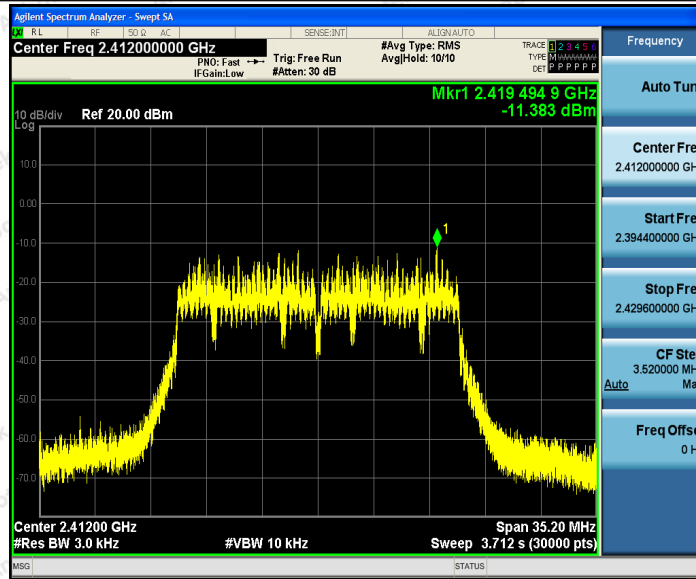
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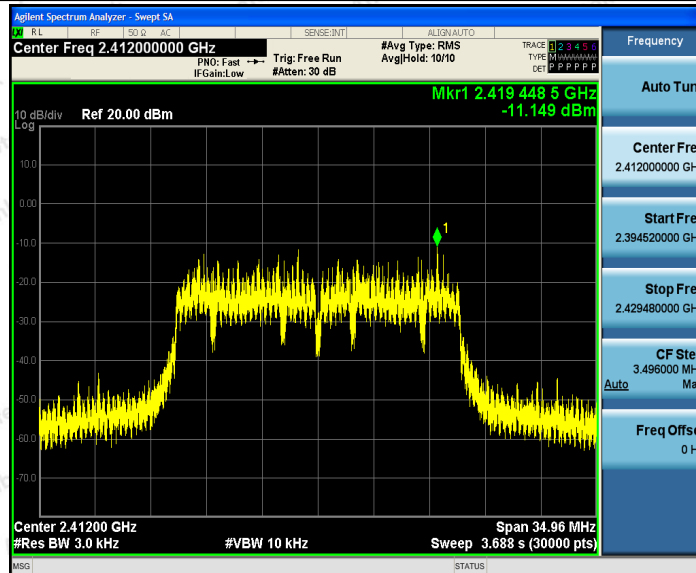
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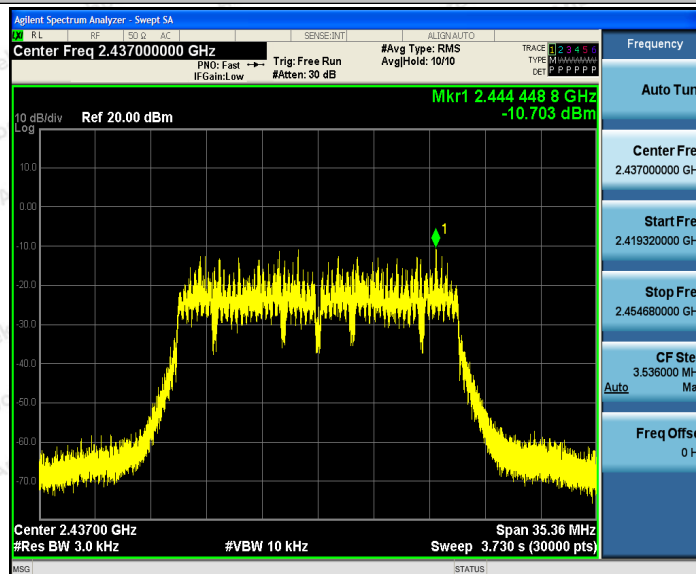
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11N20\_Ant2\_2412



11N20\_Ant1\_2437

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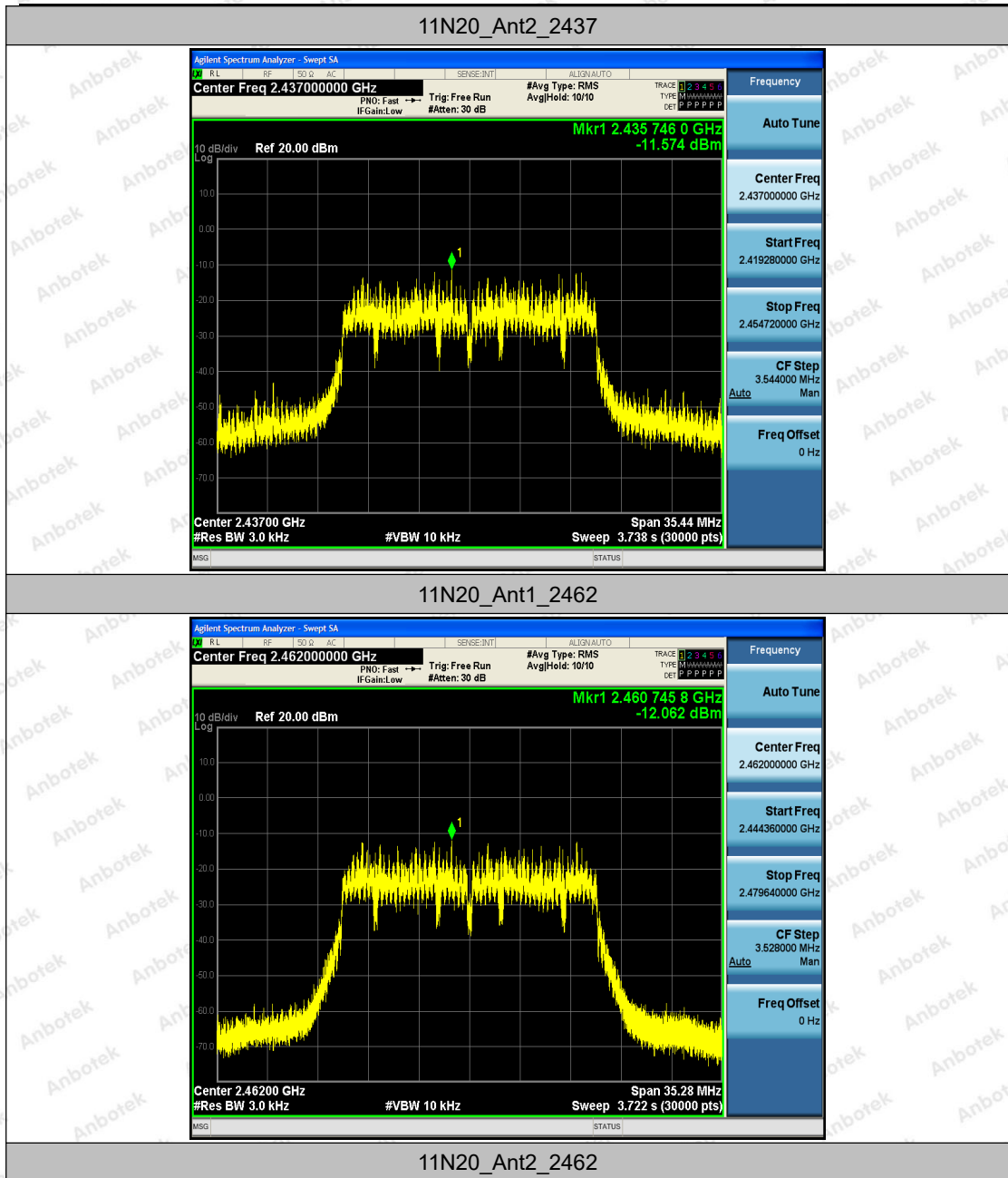
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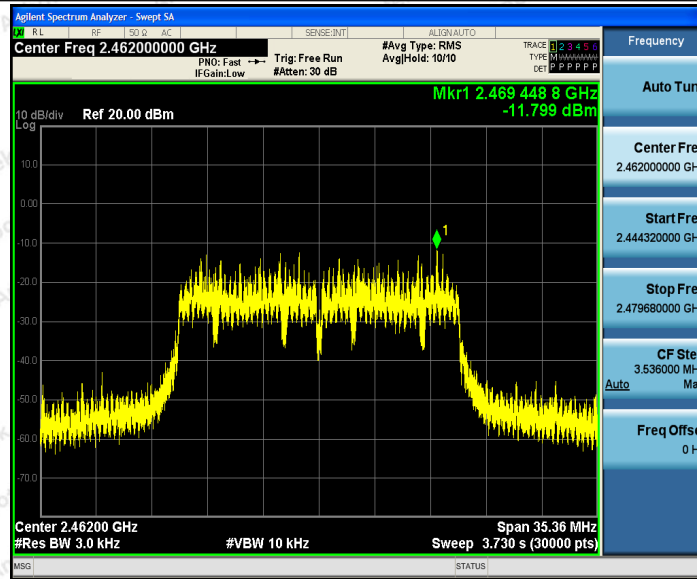


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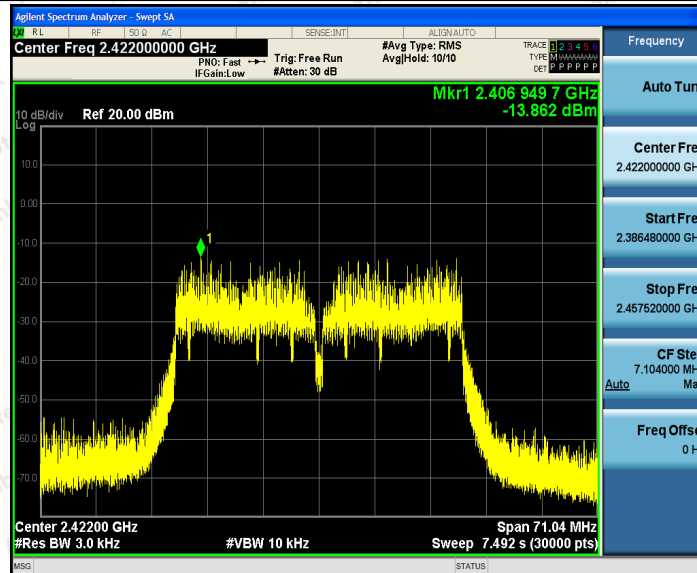
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

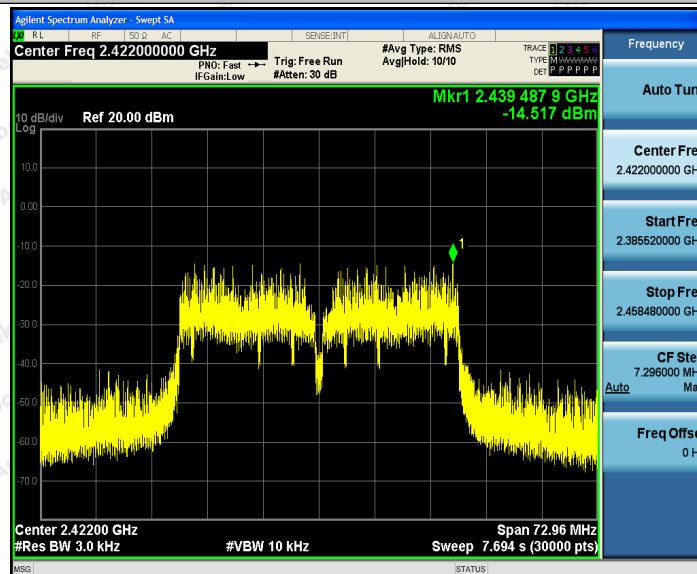
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11N40\_Ant1\_2422



11N40\_Ant2\_2422



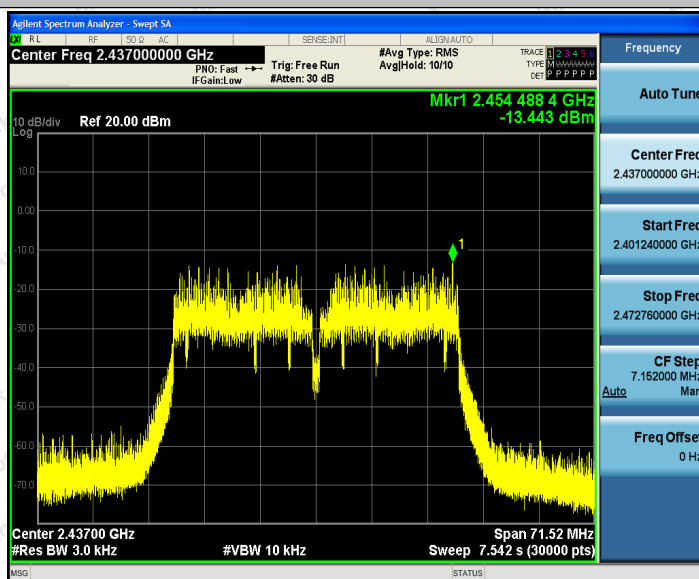
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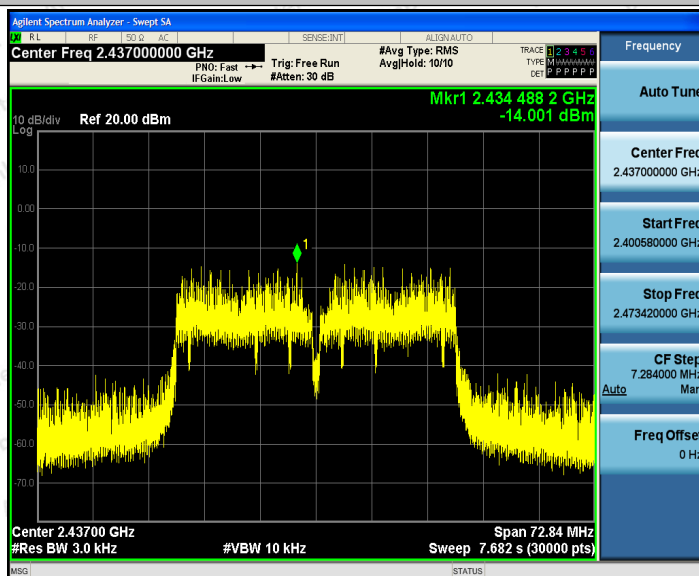
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11N40\_Ant1\_2437



11N40\_Ant2\_2437



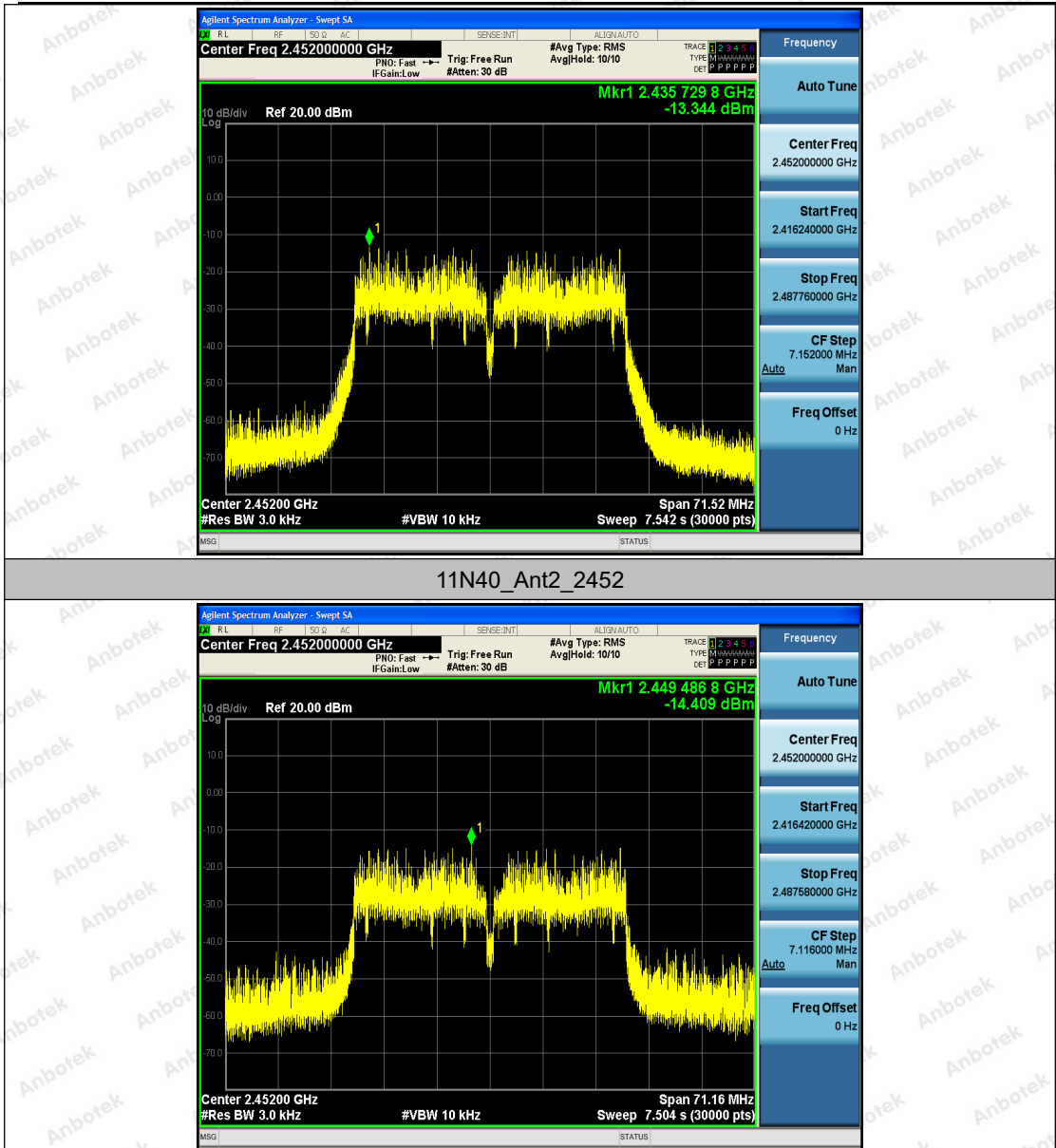
11N40\_Ant1\_2452

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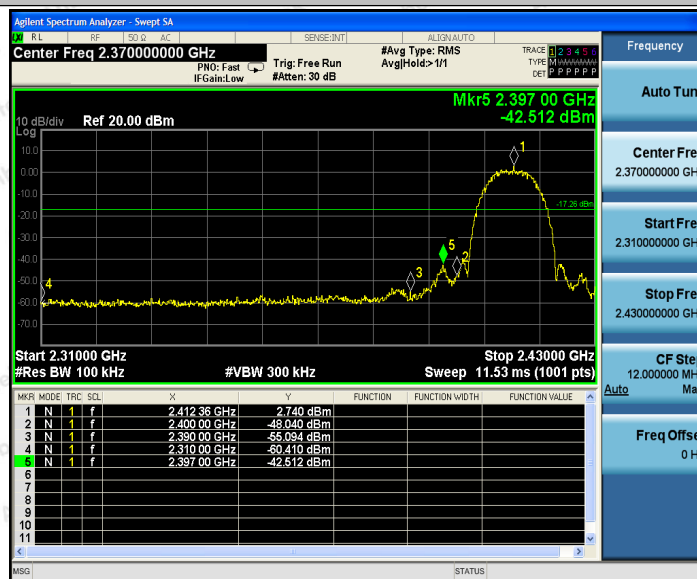
## Appendix E: Band edge measurements

### Test Result

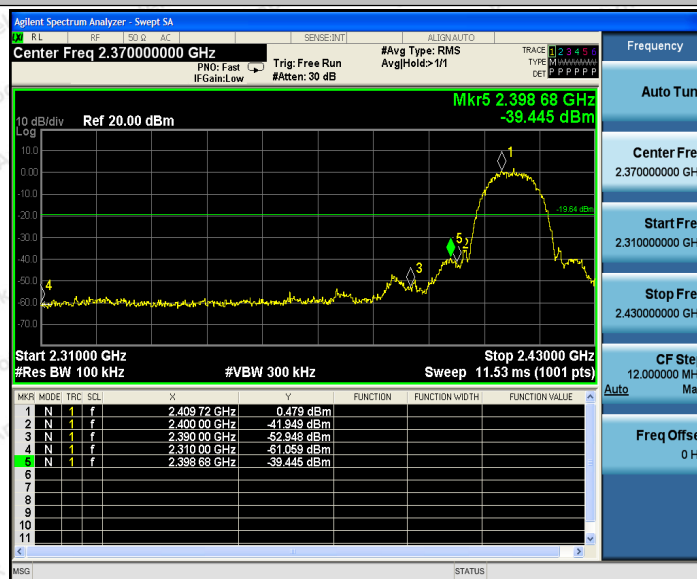
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| 11B      | Ant1    | Low    | 2412    | 2.74          | -42.51      | ≤-17.26    | PASS    |
|          | Ant2    | Low    | 2412    | 0.36          | -39.66      | ≤-19.64    | PASS    |
|          | Ant1    | High   | 2462    | 1.32          | -54.25      | ≤-18.68    | PASS    |
|          | Ant2    | High   | 2462    | -0.15         | -49.16      | ≤-20.15    | PASS    |
| 11G      | Ant1    | Low    | 2412    | 0.87          | -37.05      | ≤-19.13    | PASS    |
|          | Ant2    | Low    | 2412    | 0.04          | -27.17      | ≤-19.96    | PASS    |
|          | Ant1    | High   | 2462    | 0.55          | -47.11      | ≤-19.45    | PASS    |
|          | Ant2    | High   | 2462    | -0.28         | -35.58      | ≤-20.28    | PASS    |
| 11N20    | Ant1    | Low    | 2412    | 0.68          | -37.74      | ≤-19.32    | PASS    |
|          | Ant2    | Low    | 2412    | 0.11          | -30.07      | ≤-19.89    | PASS    |
|          | Ant1    | High   | 2462    | 0.56          | -47.8       | ≤-19.44    | PASS    |
|          | Ant2    | High   | 2462    | -0.23         | -36.44      | ≤-20.23    | PASS    |
| 11N40    | Ant1    | Low    | 2422    | -1.90         | -40.55      | ≤-21.9     | PASS    |
|          | Ant2    | Low    | 2422    | -2.66         | -30.64      | ≤-22.66    | PASS    |
|          | Ant1    | High   | 2452    | -1.89         | -46.14      | ≤-21.89    | PASS    |
|          | Ant2    | High   | 2452    | -2.61         | -29.03      | ≤-22.61    | PASS    |

## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant2\_Low\_2412



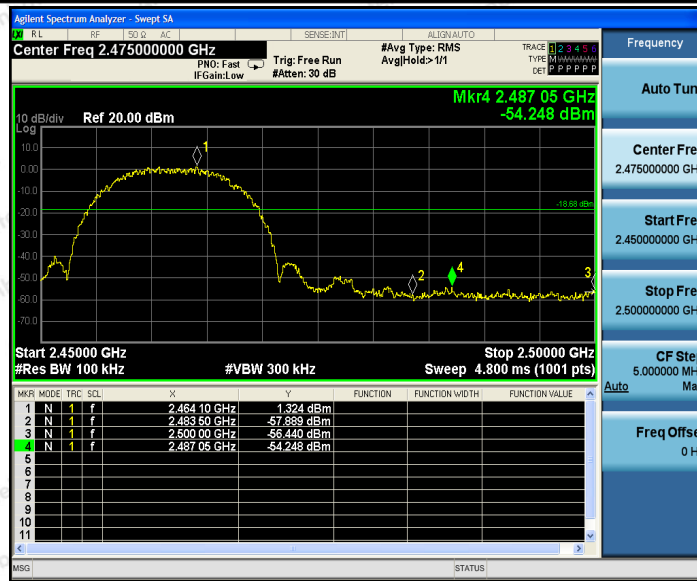
11B\_Ant1\_High\_2462

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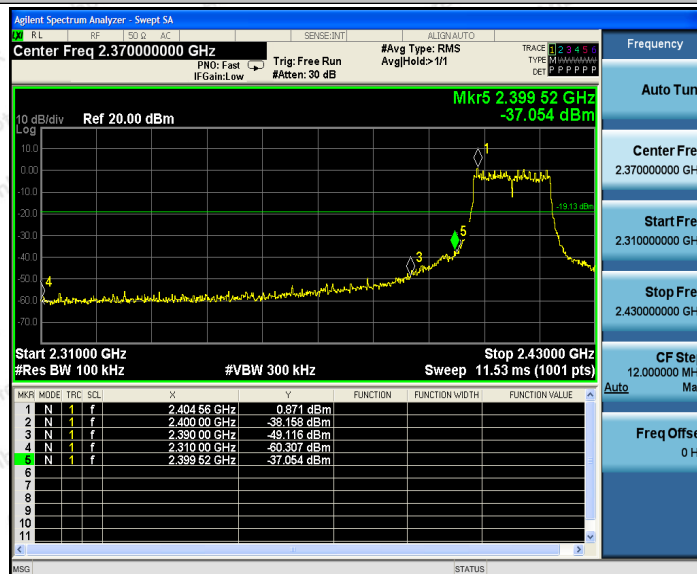
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11B\_Ant2\_High\_2462



11G\_Ant1\_Low\_2412



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## 11G\_Ant2\_Low\_2412



## 11G\_Ant1\_High\_2462



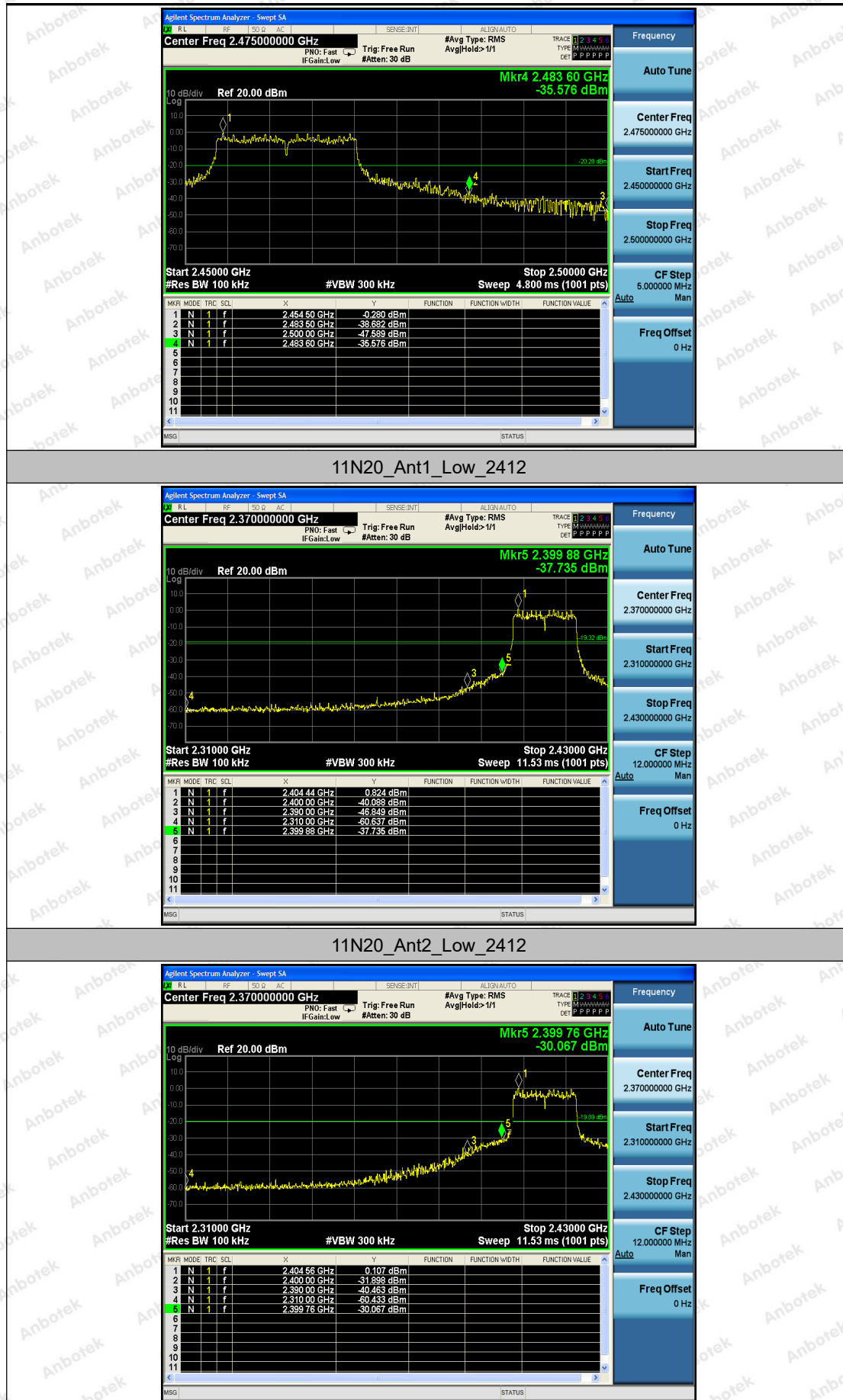
## 11G\_Ant2\_High\_2462

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## 11N20\_Ant1\_High\_2462



## 11N20\_Ant2\_High\_2462



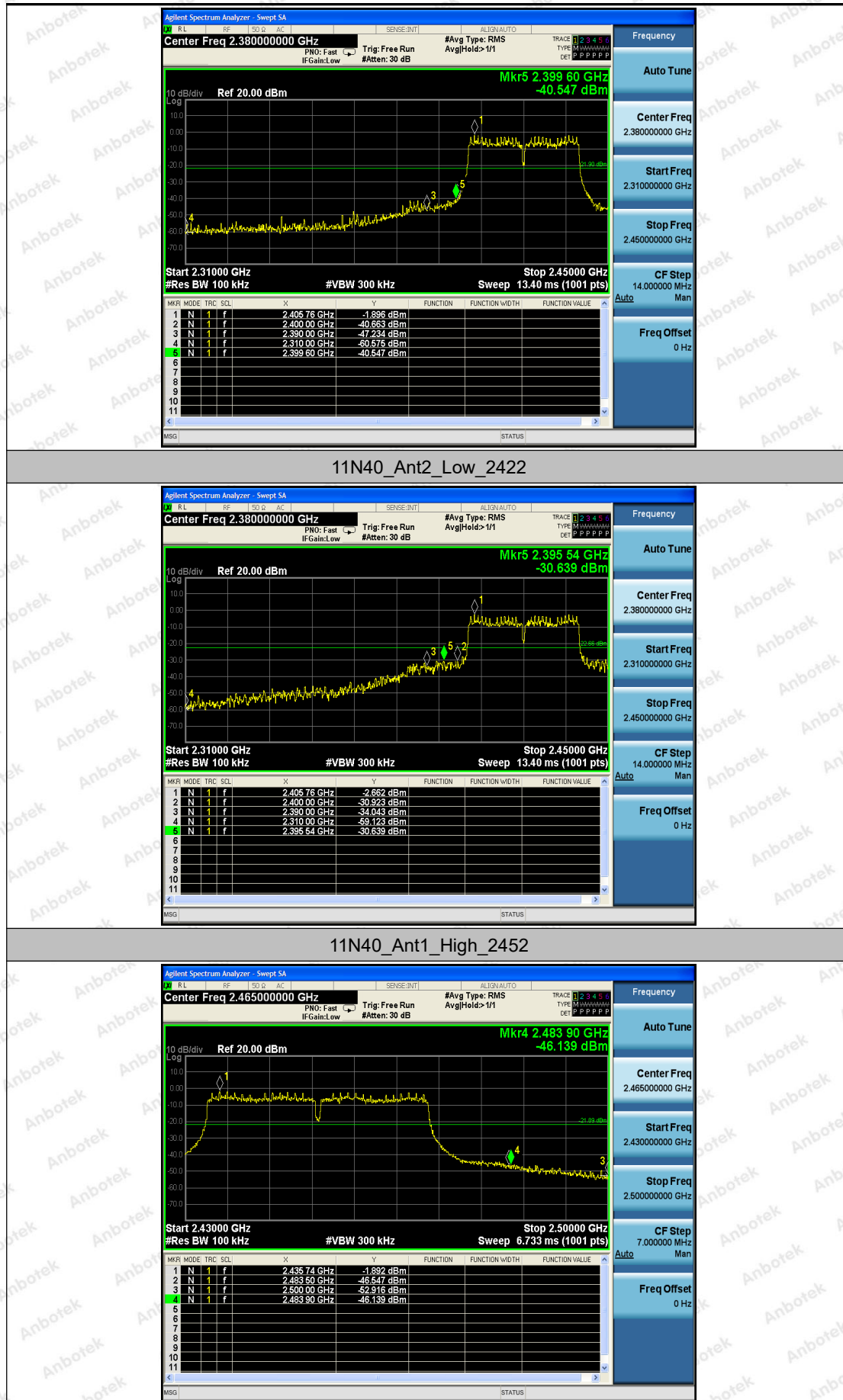
## 11N40\_Ant1\_Low\_2422

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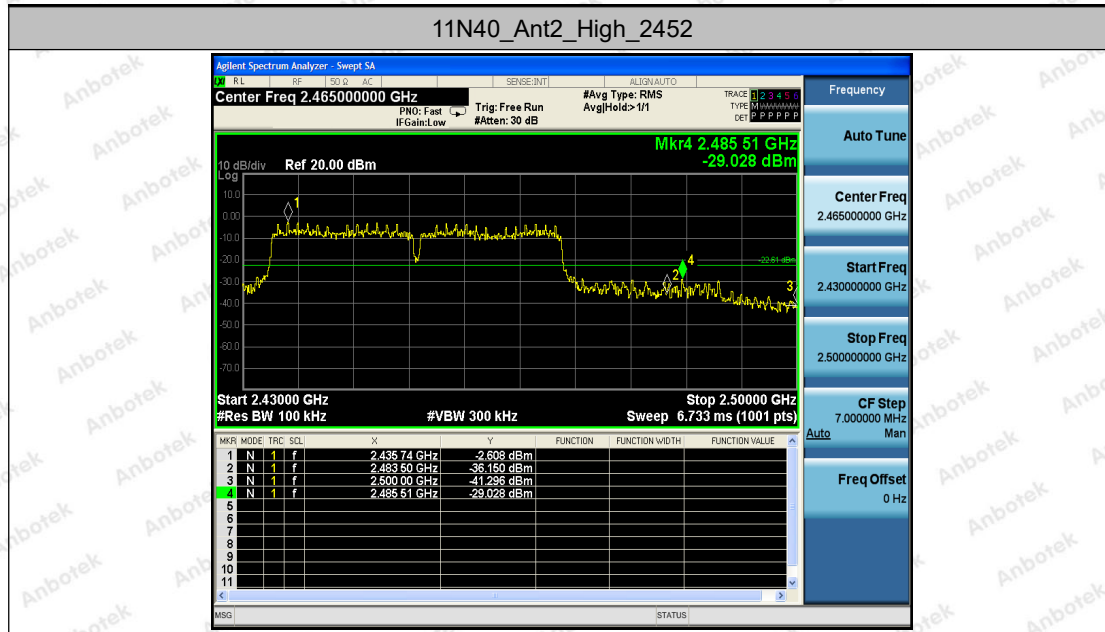


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