



## CONDUCTED SPURIOUS EMISSION TEST RESULT

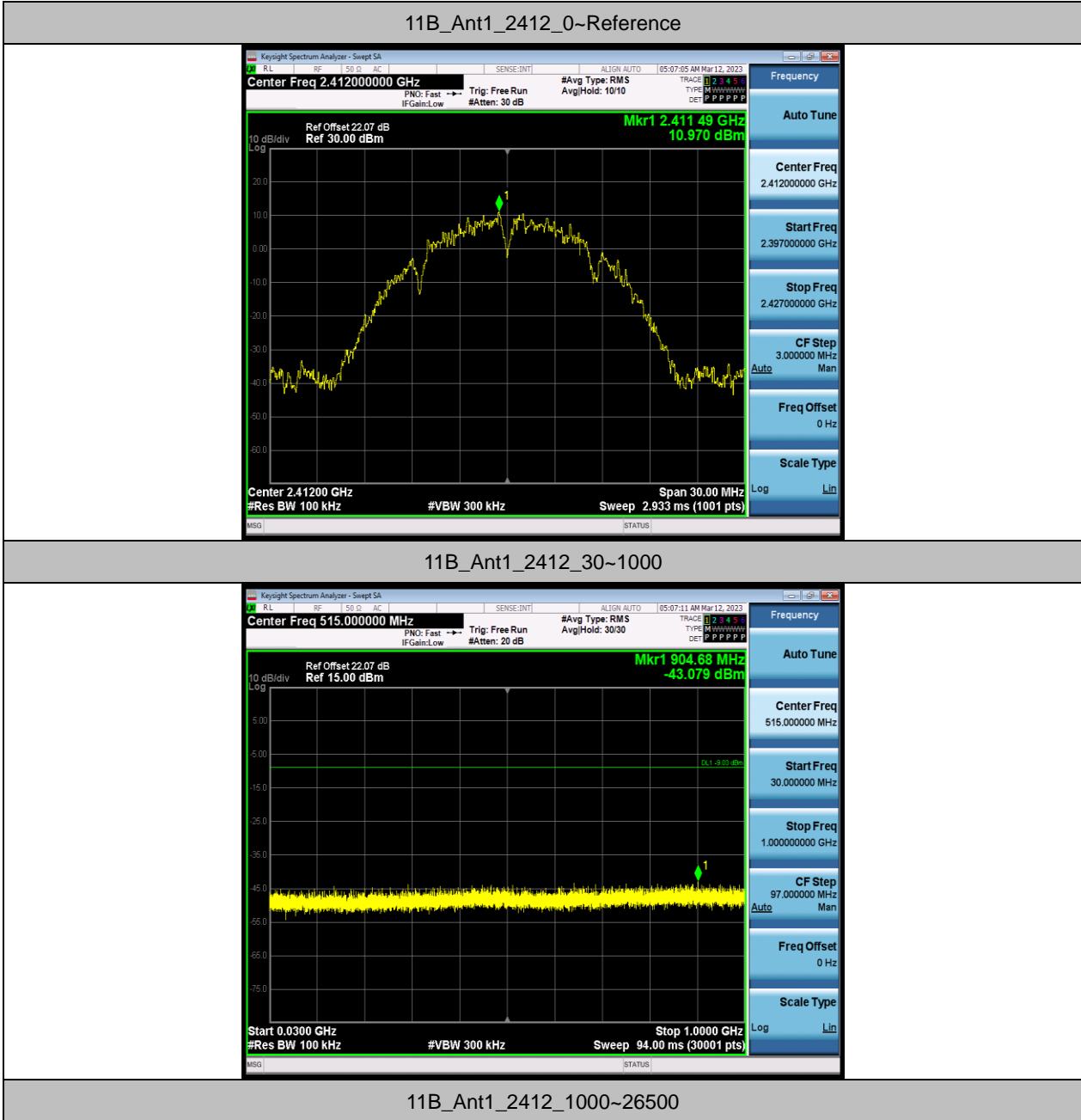
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 10.97          | 10.97        | ---         | PASS    |
|           |         |                | 30~1000         | 10.97          | -43.08       | ≤-9.03      | PASS    |
|           |         |                | 1000~26500      | 10.97          | -22.82       | ≤-9.03      | PASS    |
|           |         | 2437           | Reference       | 11.49          | 11.49        | ---         | PASS    |
|           |         |                | 30~1000         | 11.49          | -43.3        | ≤-8.51      | PASS    |
|           |         |                | 1000~26500      | 11.49          | -23.45       | ≤-8.51      | PASS    |
|           |         | 2462           | Reference       | 11.21          | 11.21        | ---         | PASS    |
|           |         |                | 30~1000         | 11.21          | -43.22       | ≤-8.79      | PASS    |
|           |         |                | 1000~26500      | 11.21          | -23.52       | ≤-8.79      | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 8.79           | 8.79         | ---         | PASS    |
|           |         |                | 30~1000         | 8.79           | -42.73       | ≤-11.21     | PASS    |
|           |         |                | 1000~26500      | 8.79           | -23.67       | ≤-11.21     | PASS    |
|           |         | 2437           | Reference       | 6.65           | 6.65         | ---         | PASS    |
|           |         |                | 30~1000         | 6.65           | -43.27       | ≤-13.35     | PASS    |
|           |         |                | 1000~26500      | 6.65           | -24.12       | ≤-13.35     | PASS    |
|           |         | 2462           | Reference       | 9.22           | 9.22         | ---         | PASS    |
|           |         |                | 30~1000         | 9.22           | -41.72       | ≤-10.78     | PASS    |
|           |         |                | 1000~26500      | 9.22           | -23.86       | ≤-10.78     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | 6.10           | 6.10         | ---         | PASS    |
|           |         |                | 30~1000         | 6.10           | -43.32       | ≤-13.9      | PASS    |
|           |         |                | 1000~26500      | 6.10           | -23.66       | ≤-13.9      | PASS    |
|           |         | 2437           | Reference       | 7.18           | 7.18         | ---         | PASS    |
|           |         |                | 30~1000         | 7.18           | -43.4        | ≤-12.82     | PASS    |
|           |         |                | 1000~26500      | 7.18           | -24.67       | ≤-12.82     | PASS    |
|           |         | 2462           | Reference       | 5.02           | 5.02         | ---         | PASS    |
|           |         |                | 30~1000         | 5.02           | -42.41       | ≤-14.98     | PASS    |
|           |         |                | 1000~26500      | 5.02           | -24.5        | ≤-14.98     | PASS    |



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Test Report No.: W7L-P23030005RF02

### TEST GRAPHS





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11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



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11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference

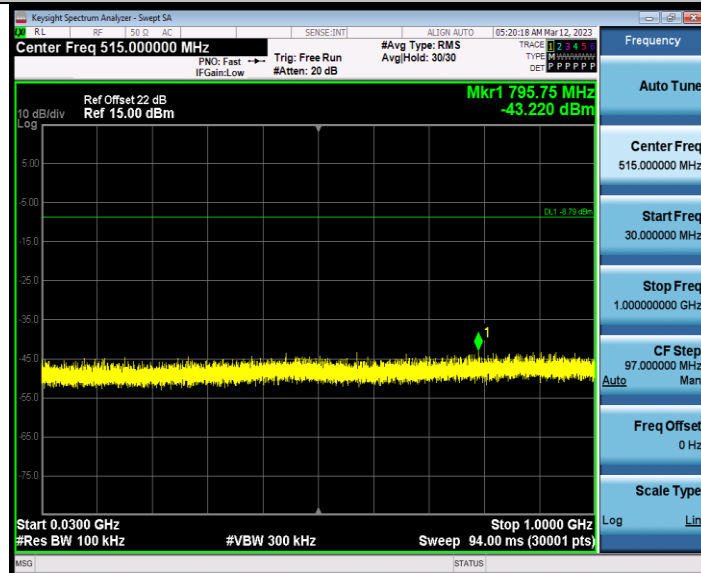


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11B\_Ant1\_2462\_30~1000

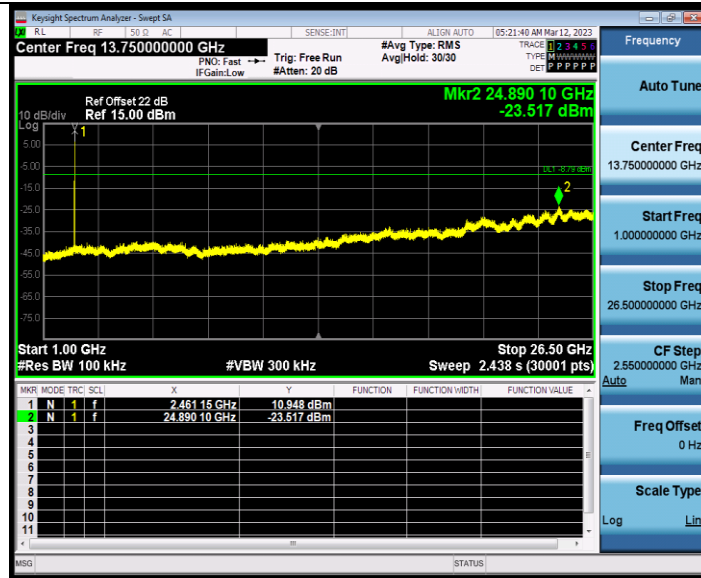


11B\_Ant1\_2462\_1000~26500



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11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000

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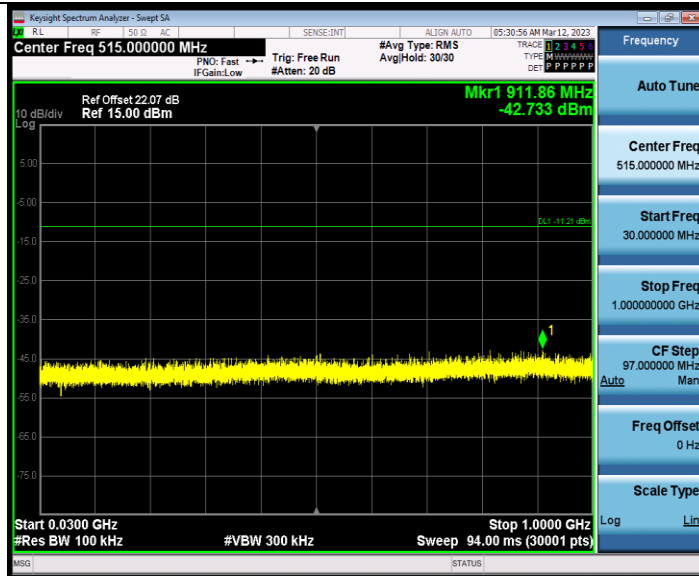
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference



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**Test Report No.: W7L-P23030005RF02**



11G\_Ant1\_2437\_30~1000

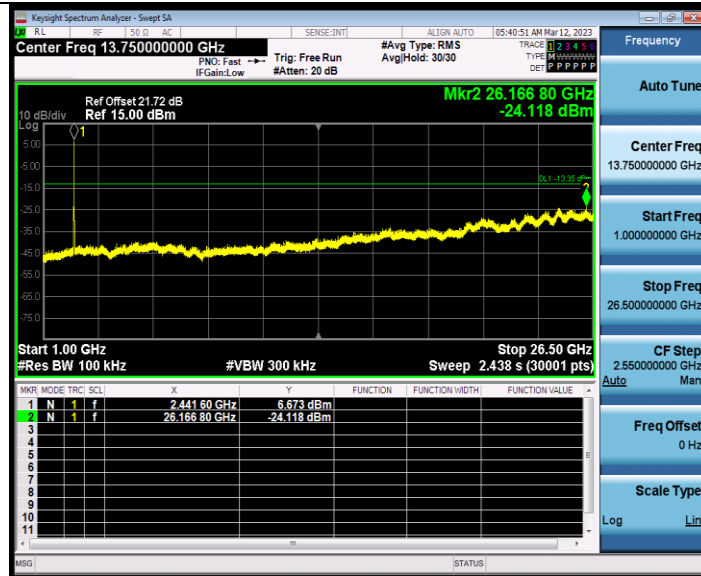


11G\_Ant1\_2437\_1000~26500





**BUREAU VERITAS** Test Report No.: W7L-P23030005RF02



11G\_Ant1\_2462\_0~Reference

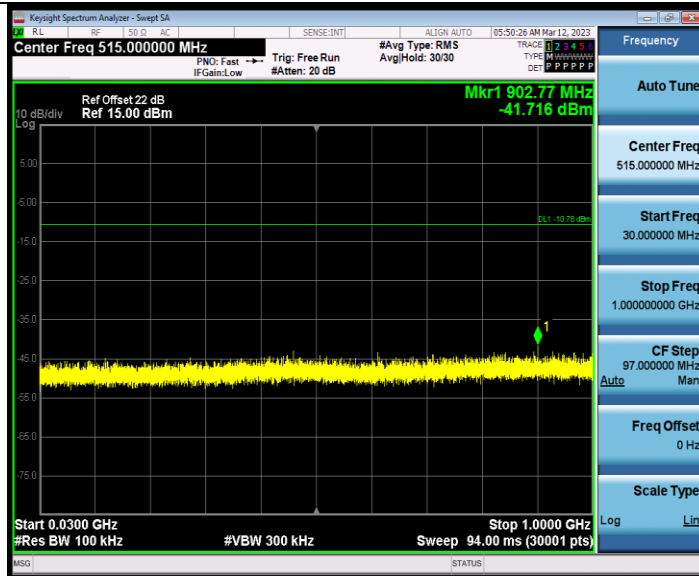


11G\_Ant1\_2462\_30~100



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11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference

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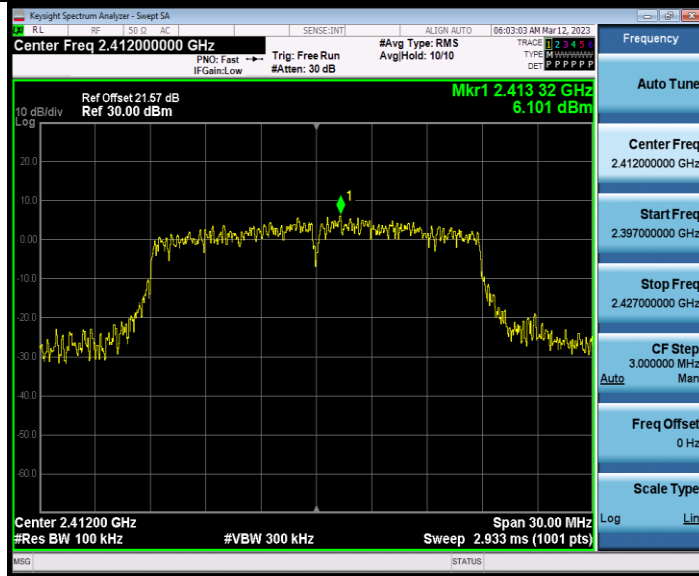
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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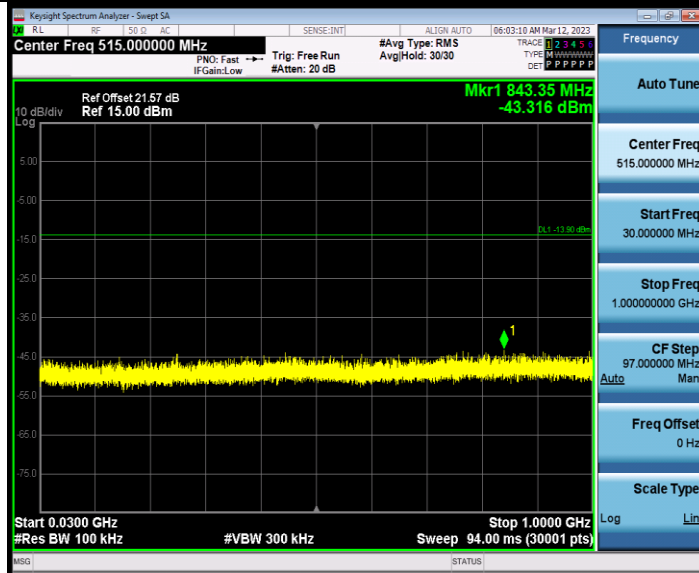


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11N20SISO\_Ant1\_2412\_30~1000



11N20SISO\_Ant1\_2412\_1000~26500



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**Test Report No.: W7L-P23030005RF02**



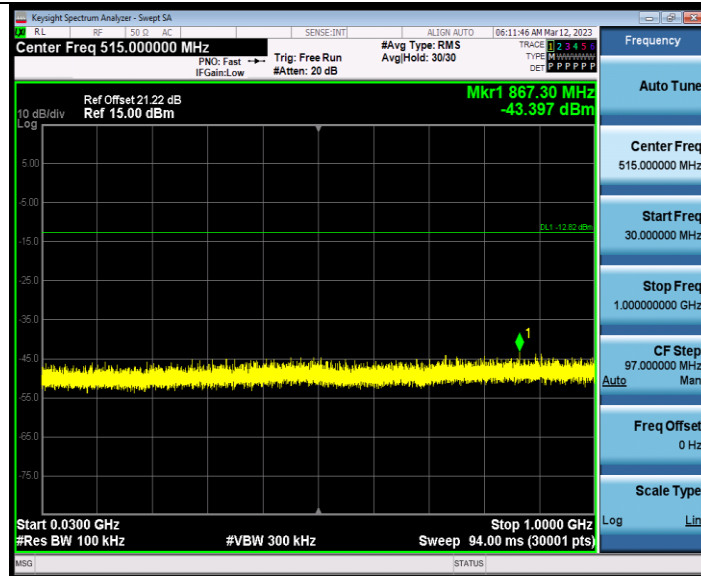
11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000



**BUREAU VERITAS** Test Report No.: W7L-P23030005RF02



11N20SISO\_Ant1\_2437\_1000~26500

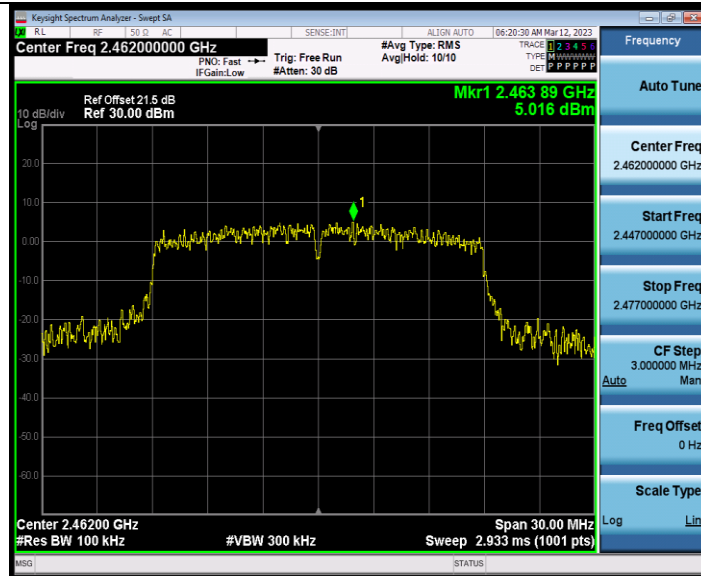


11N20SISO\_Ant1\_2462\_0~Reference

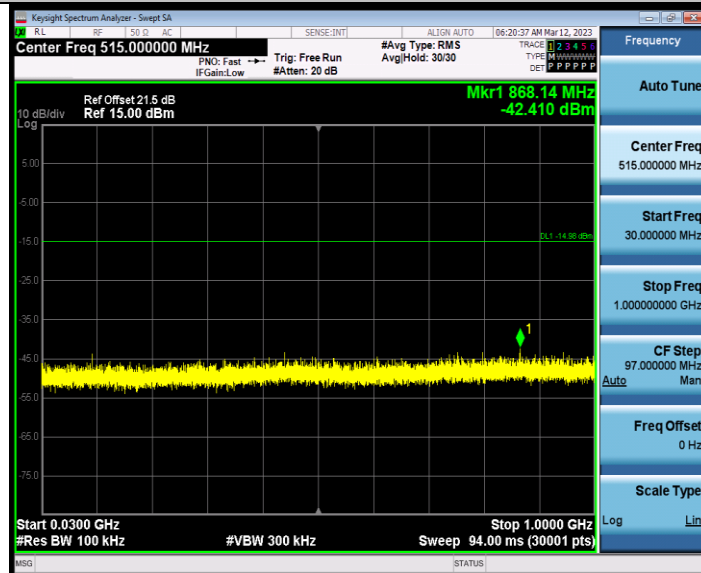


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11N20SISO\_Ant1\_2462\_30~1000

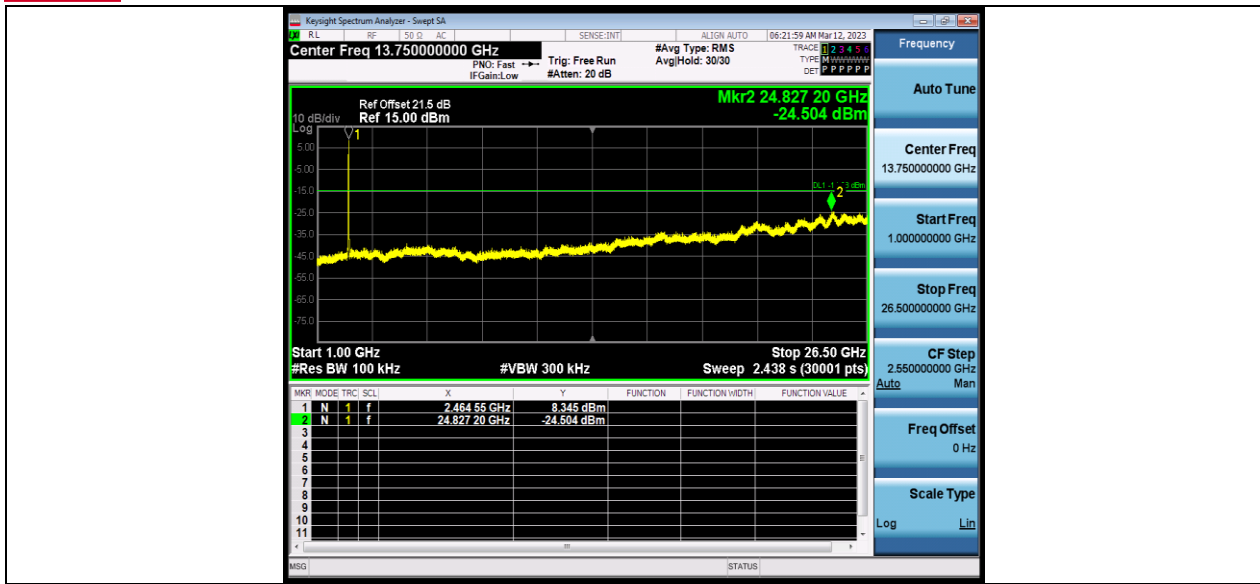


11N20SISO\_Ant1\_2462\_1000~26500



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## DUTY CYCLE TEST RESULT

| TestMode  | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor |
|-----------|---------|----------------|----------------------------|--------------------------|----------------|--------|
| 11B       | Ant1    | 2412           | 8.38                       | 8.42                     | 99.52          | 0.02   |
|           |         | 2437           | 8.39                       | 8.42                     | 99.64          | 0.02   |
|           |         | 2462           | 8.39                       | 8.43                     | 99.53          | 0.02   |
| 11G       | Ant1    | 2412           | 1.40                       | 1.44                     | 97.22          | 0.12   |
|           |         | 2437           | 1.39                       | 1.44                     | 96.53          | 0.15   |
|           |         | 2462           | 1.39                       | 1.44                     | 96.53          | 0.15   |
| 11N20SISO | Ant1    | 2412           | 1.30                       | 1.34                     | 97.01          | 0.13   |
|           |         | 2437           | 1.30                       | 1.35                     | 96.30          | 0.16   |
|           |         | 2462           | 1.30                       | 1.35                     | 96.30          | 0.16   |



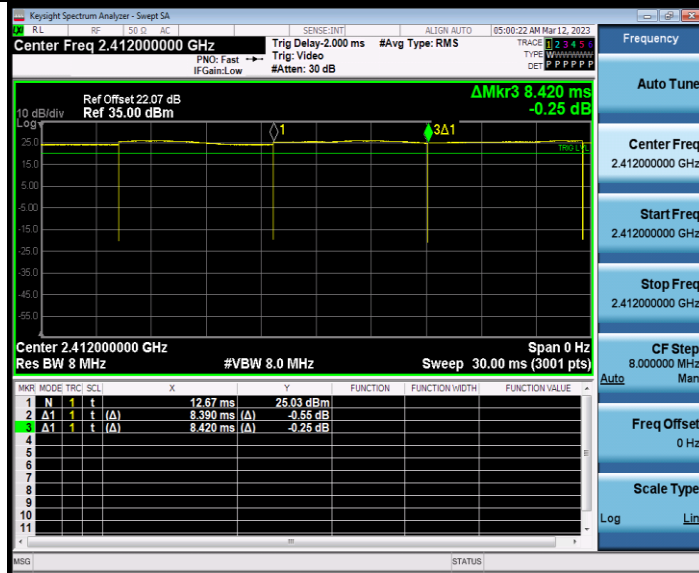


BUREAU VERITAS

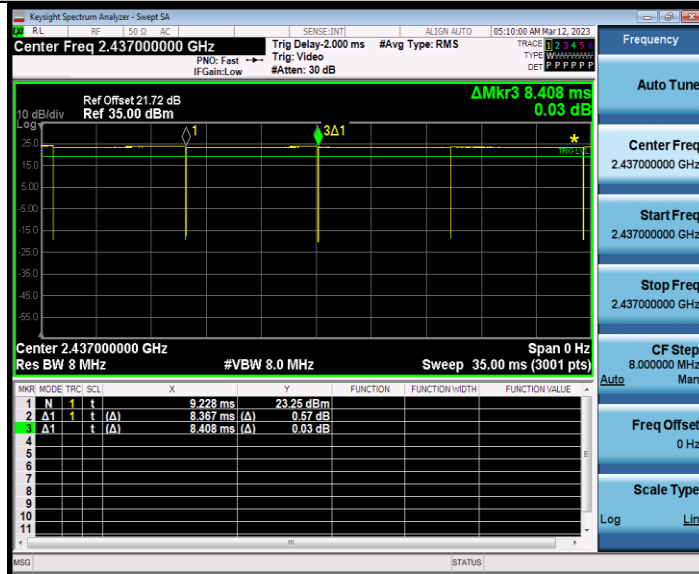
Test Report No.: W7L-P23030005RF02

### TEST GRAPHS

11B\_Ant1\_2412



11B\_Ant1\_2437

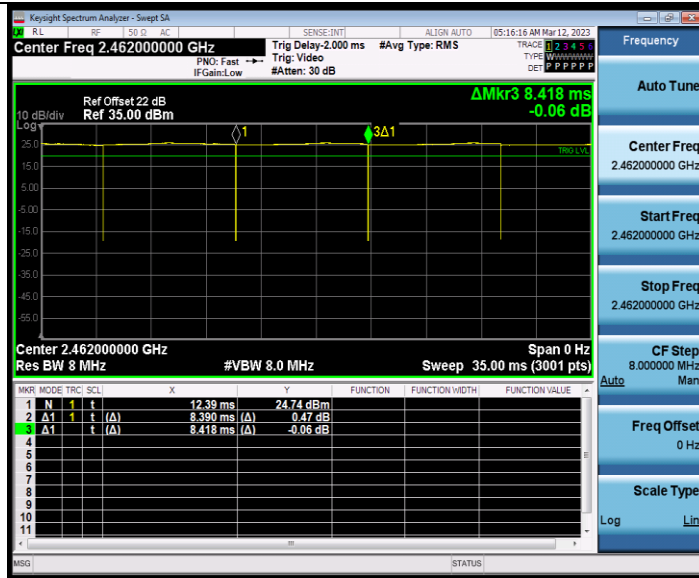


11B\_Ant1\_2462

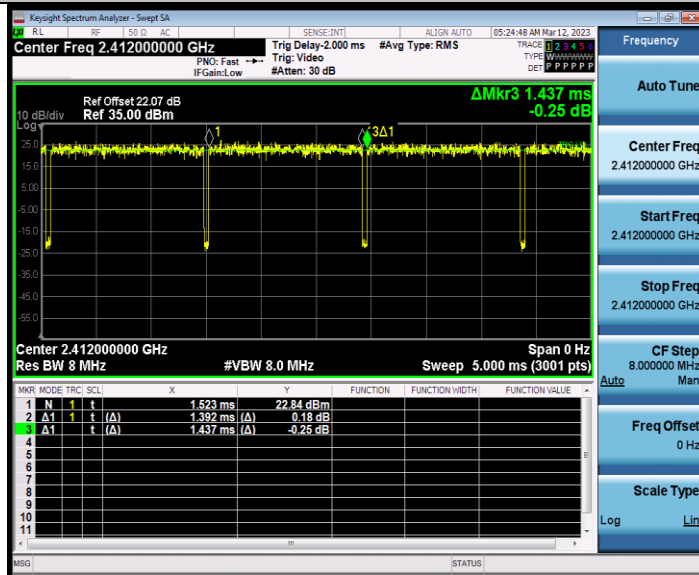


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11G\_Ant1\_2412

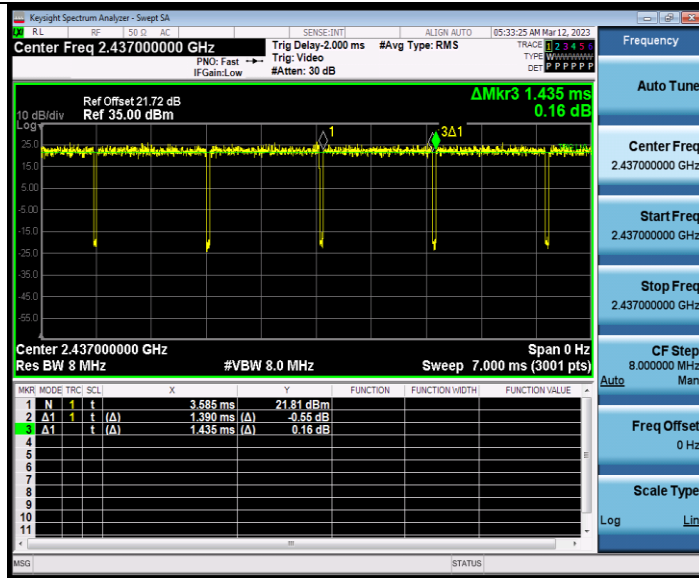


11G\_Ant1\_2437

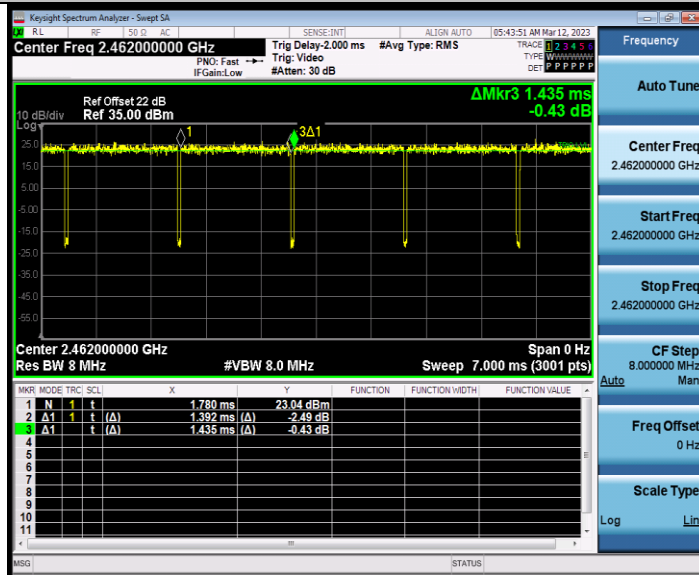


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Test Report No.: W7L-P23030005RF02



11G\_Ant1\_2462

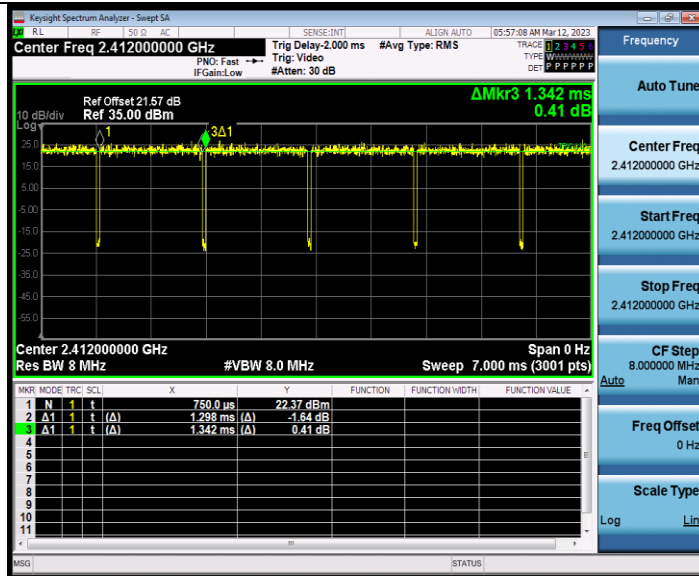


11N20SISO\_Ant1\_2412

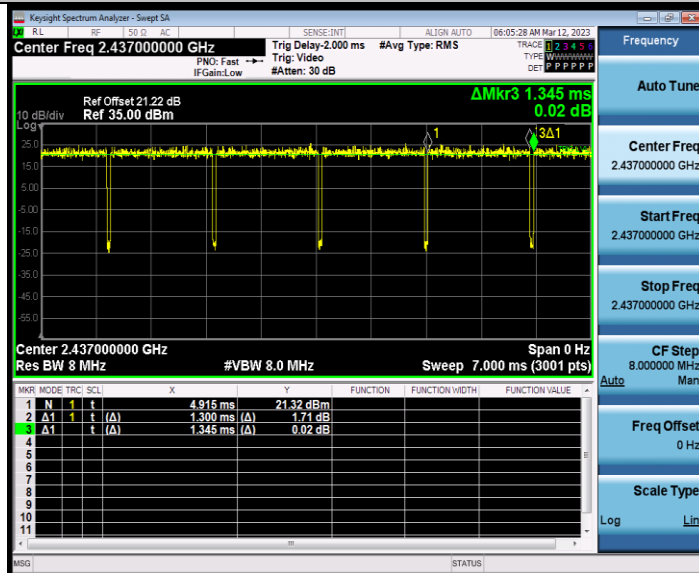


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11N20SISO\_Ant1\_2437

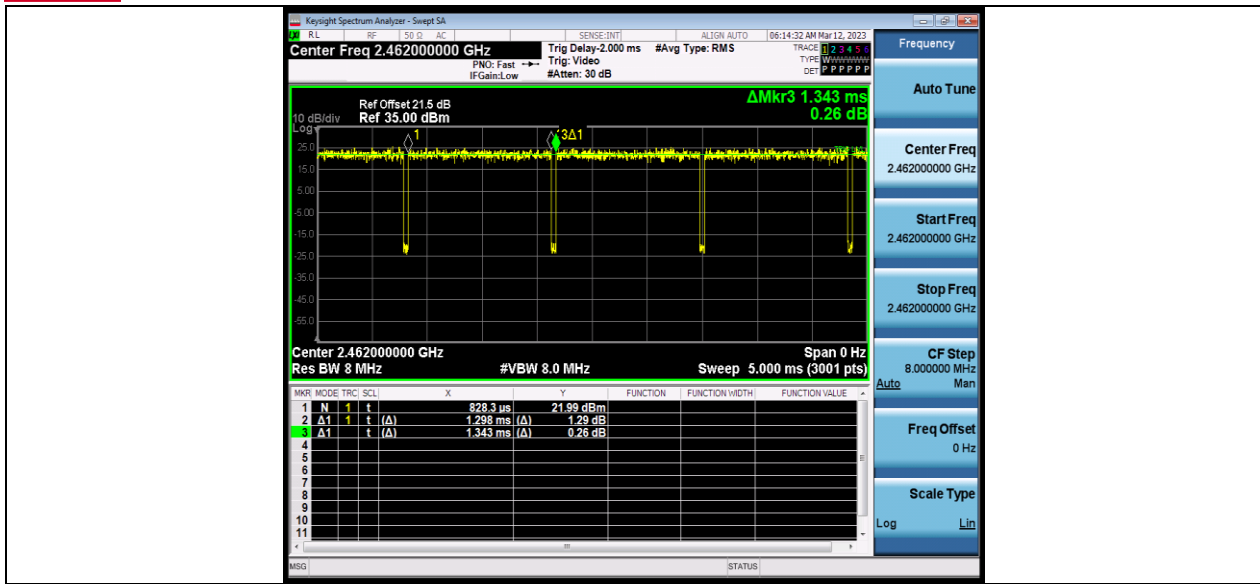


11N20SISO\_Ant1\_2462



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## 7 APPENDIX 2 BLE

### DTS BANDWIDTH

### TEST RESULT

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.712        | 2401.648 | 2402.360 | 0.5        | PASS    |
|          |         | 2440           | 0.664        | 2439.664 | 2440.328 | 0.5        | PASS    |
|          |         | 2480           | 0.704        | 2479.652 | 2480.356 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.140        | 2401.436 | 2402.576 | 0.5        | PASS    |
|          |         | 2440           | 1.132        | 2439.456 | 2440.588 | 0.5        | PASS    |
|          |         | 2480           | 1.272        | 2479.332 | 2480.604 | 0.5        | PASS    |
| BLE_125K | Ant1    | 2402           | 0.680        | 2401.664 | 2402.344 | 0.5        | PASS    |
|          |         | 2440           | 0.680        | 2439.660 | 2440.340 | 0.5        | PASS    |
|          |         | 2480           | 0.680        | 2479.660 | 2480.340 | 0.5        | PASS    |
| BLE_500K | Ant1    | 2402           | 0.648        | 2401.684 | 2402.332 | 0.5        | PASS    |
|          |         | 2440           | 0.692        | 2439.664 | 2440.356 | 0.5        | PASS    |
|          |         | 2480           | 0.672        | 2479.676 | 2480.348 | 0.5        | PASS    |

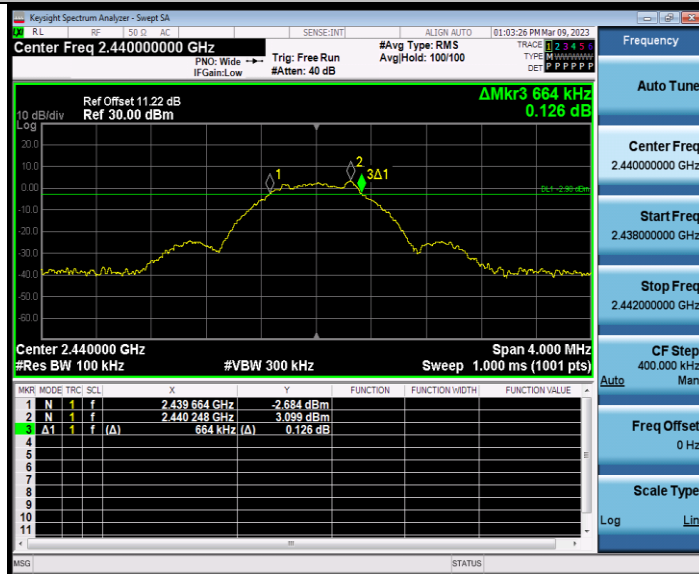


### TEST GRAPHS

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440