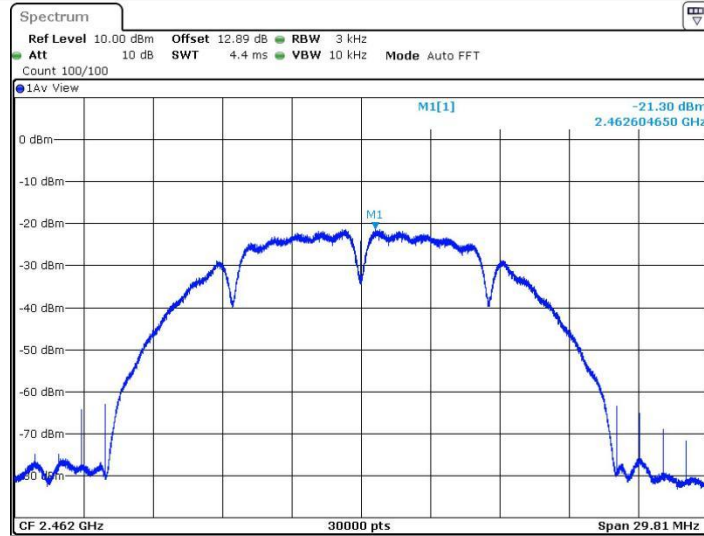
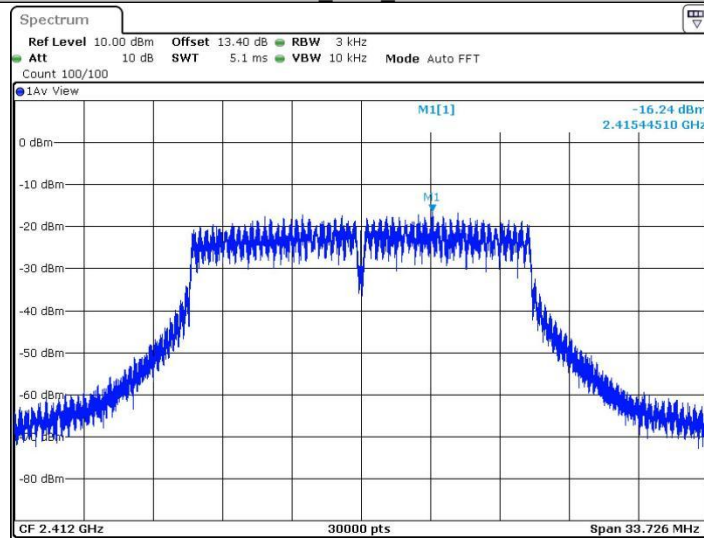


11B\_Ant2\_2462



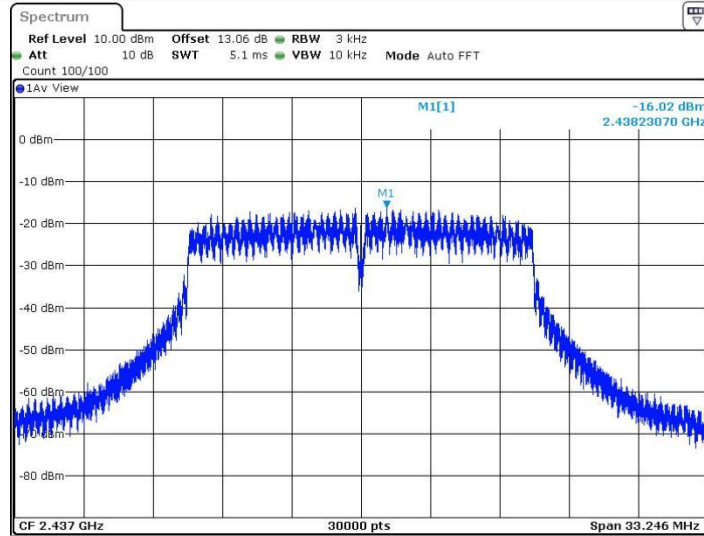
Date: 21. MAR 2024 13:38:12

11G\_Ant2\_2412



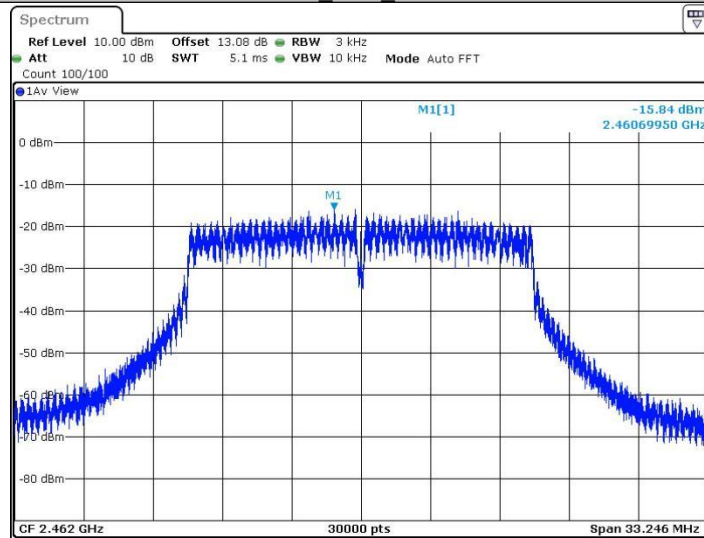
Date: 21. MAR 2024 13:40:22

11G\_Ant2\_2437



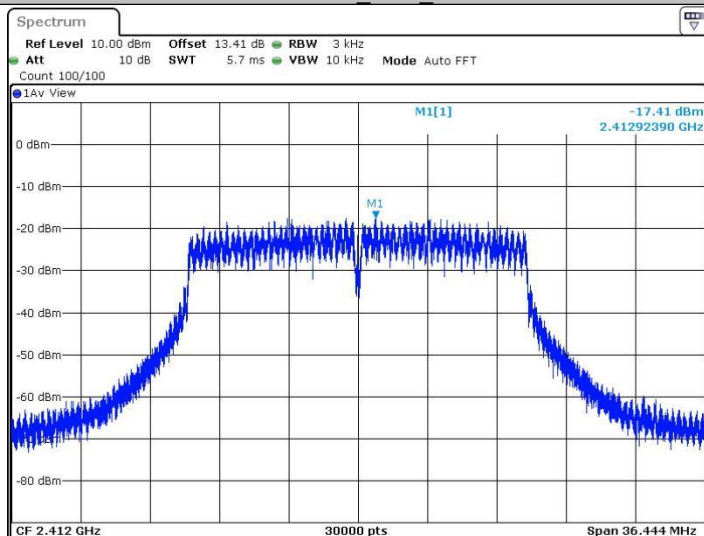
Date: 21.MAR.2024 13:42:13

11G\_Ant2\_2462



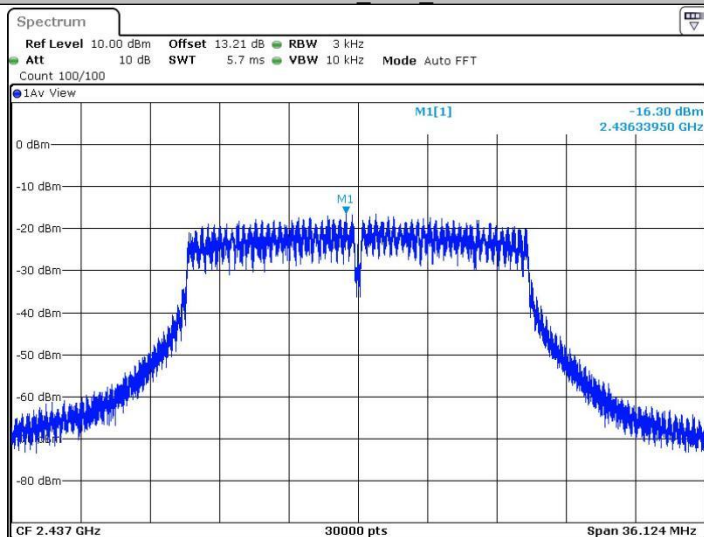
Date: 21.MAR.2024 13:44:52

11N20SISO\_Ant2\_2412



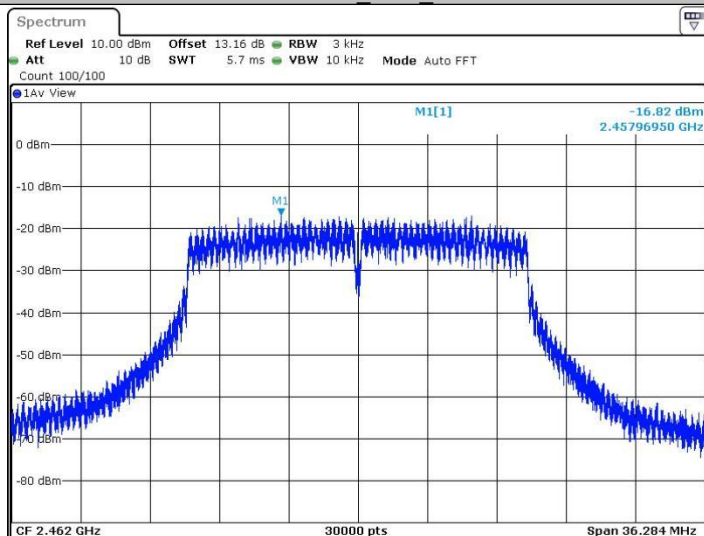
Date: 21.MAR.2024 13:46:47

11N20SISO\_Ant2\_2437



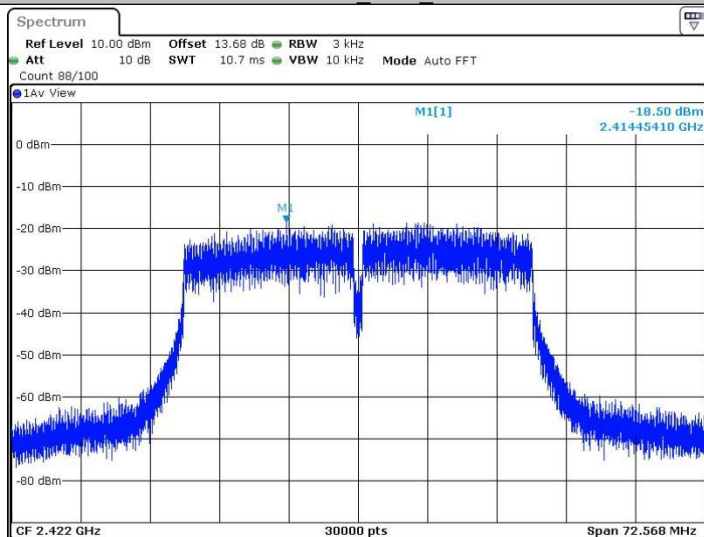
Date: 21.MAR.2024 13:48:29

11N20SISO\_Ant2\_2462



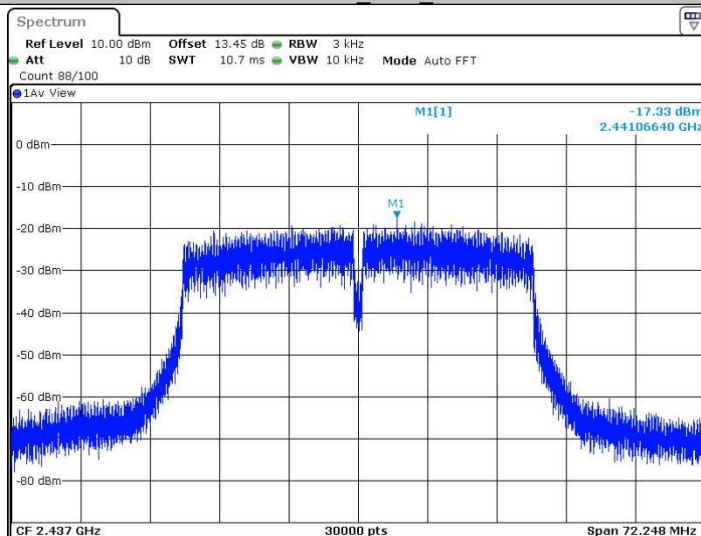
Date: 21. MAR 2024 13:50:02

11N40SISO\_Ant2\_2422



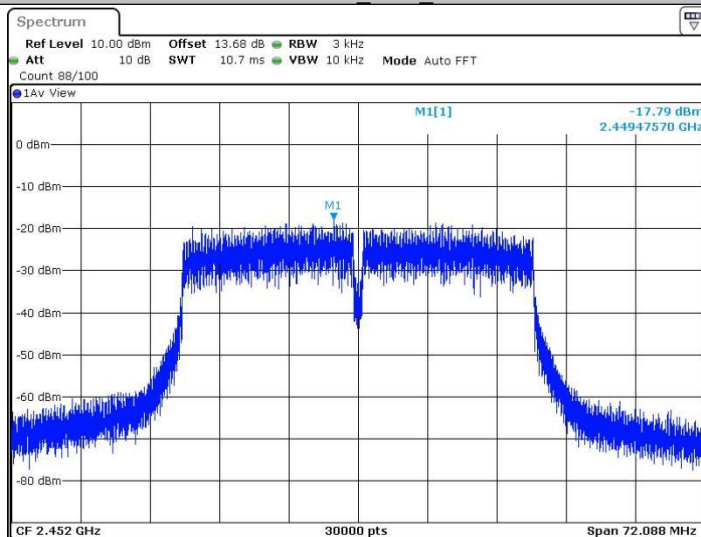
Date: 21. MAR 2024 13:52:05

11N40SISO\_Ant2\_2437



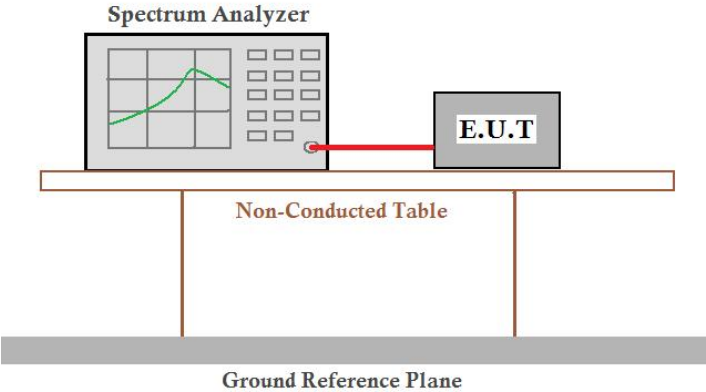
Date: 21.MAR.2024 13:54:05

11N40SISO\_Ant2\_2452



Date: 21.MAR.2024 13:55:57

## 5.6 Band-edge for RF Conducted Emissions

|                        |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:           | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                       |
| Test Setup:            |  <p>Offset=cable loss+ attenuation factor</p>                                                                                                                                                                                                                                                         |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates                                                                                                                                                                                                                                                                                                                                   |
| Final Test Mode:       | Only the worst case is recorded in the report.                                                                                                                                                                                                                                                                                                                                          |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                    |

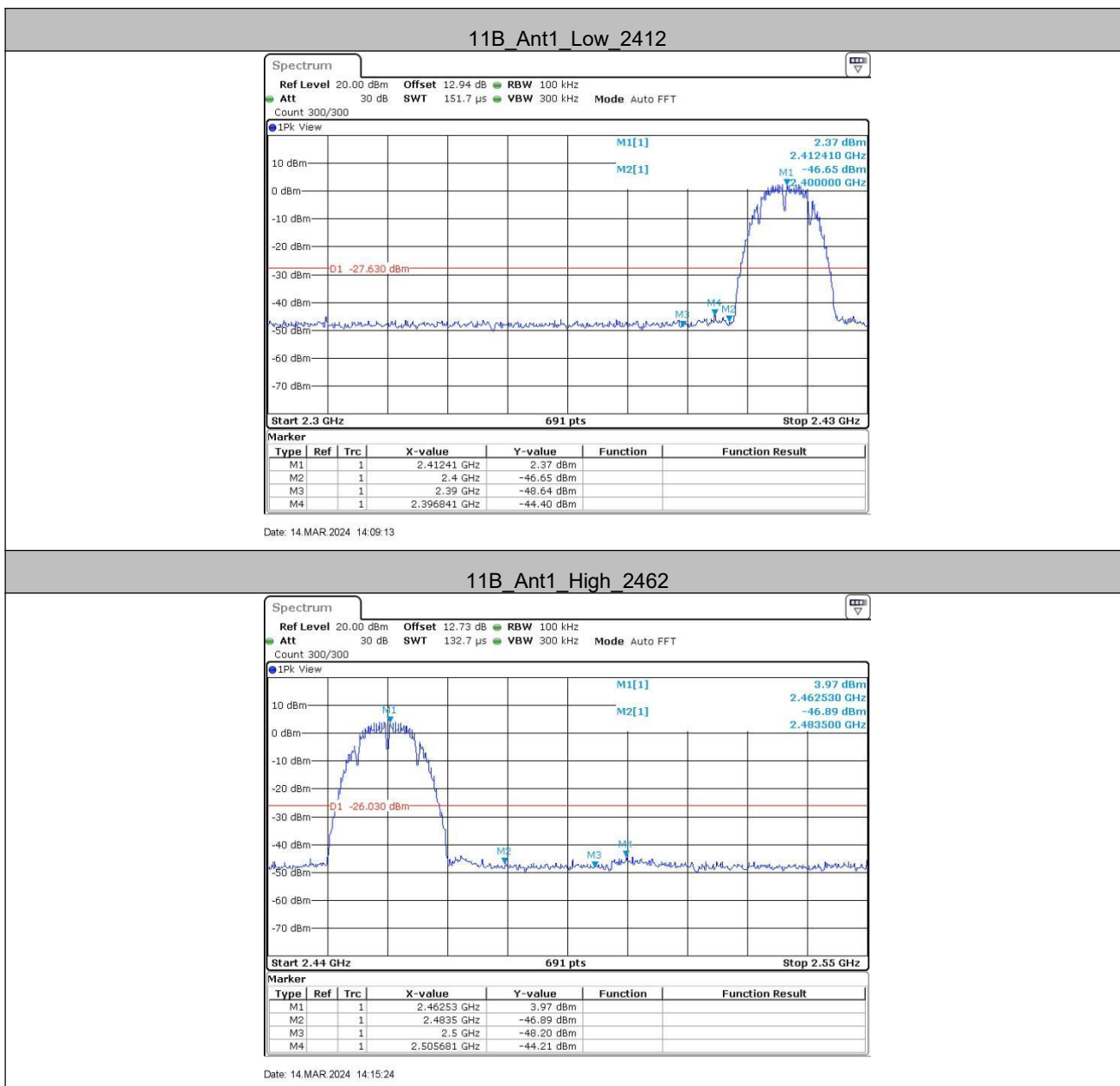
**Test Result****ANT1:**

| TestMode  | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|--------|----------------|---------------|-------------|---------------|---------|
| 11B       | Low    | 2412           | 2.37          | -44.4       | $\leq -27.63$ | PASS    |
|           | High   | 2462           | 3.97          | -44.21      | $\leq -26.03$ | PASS    |
| 11G       | Low    | 2412           | 4.82          | -28.08      | $\leq -25.18$ | PASS    |
|           | High   | 2462           | 6.58          | -40.64      | $\leq -23.42$ | PASS    |
| 11N20SISO | Low    | 2412           | 5.88          | -29.53      | $\leq -24.12$ | PASS    |
|           | High   | 2462           | 6.65          | -37.54      | $\leq -23.35$ | PASS    |
| 11N40SISO | Low    | 2422           | 3.07          | -33.07      | $\leq -26.93$ | PASS    |
|           | High   | 2452           | 4.16          | -35.68      | $\leq -25.84$ | PASS    |

**ANT2:**

| TestMode  | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|--------|----------------|---------------|-------------|---------------|---------|
| 11B       | Low    | 2412           | 0.83          | -44.99      | $\leq -29.17$ | PASS    |
|           | High   | 2462           | 1.26          | -44.17      | $\leq -28.74$ | PASS    |
| 11G       | Low    | 2412           | 1.47          | -34.74      | $\leq -28.53$ | PASS    |
|           | High   | 2462           | 3.88          | -43.83      | $\leq -26.12$ | PASS    |
| 11N20SISO | Low    | 2412           | 2.65          | -33.29      | $\leq -27.35$ | PASS    |
|           | High   | 2462           | 2.18          | -43.99      | $\leq -27.82$ | PASS    |
| 11N40SISO | Low    | 2422           | 0.90          | -37.23      | $\leq -29.1$  | PASS    |
|           | High   | 2452           | 1.47          | -39.34      | $\leq -28.53$ | PASS    |

## 5.6.1 Test Graphs

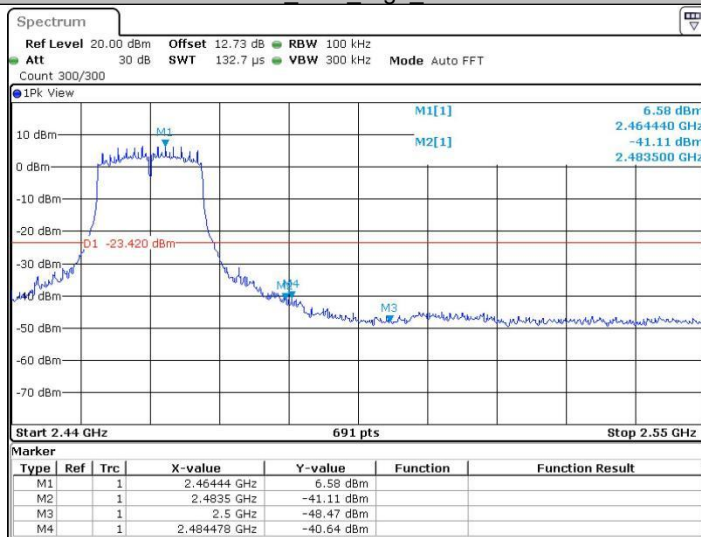


### 11G\_Ant1\_Low\_2412



Date: 14 MAR 2024 14:19:53

### 11G\_Ant1\_High\_2462



Date: 14 MAR 2024 14:25:51

11N20SISO\_Ant1\_Low\_2412



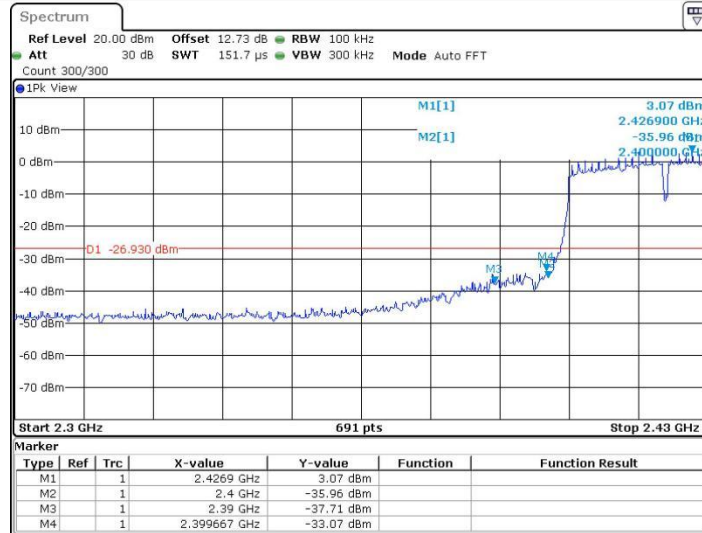
Date: 14 MAR 2024 14:29:03

11N20SISO\_Ant1\_High\_2462



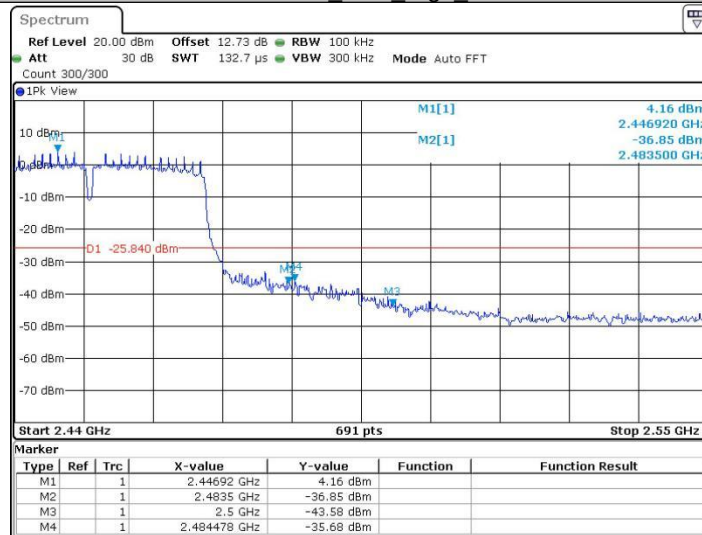
Date: 14 MAR 2024 14:33:01

11N40SISO\_Ant1\_Low\_2422



Date: 14 MAR 2024 14:36:54

11N40SISO\_Ant1\_High\_2452



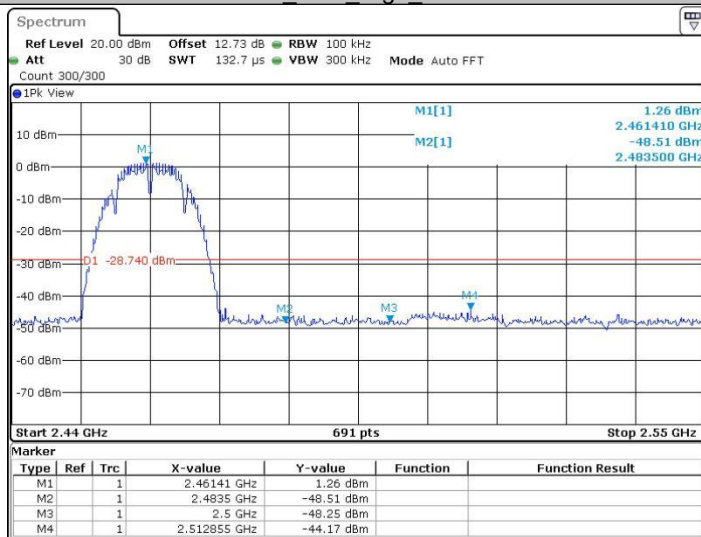
Date: 14 MAR 2024 14:42:34

### 11B\_Ant2\_Low\_2412



Date: 21 MAR 2024 13:30:48

### 11B\_Ant2\_High\_2462



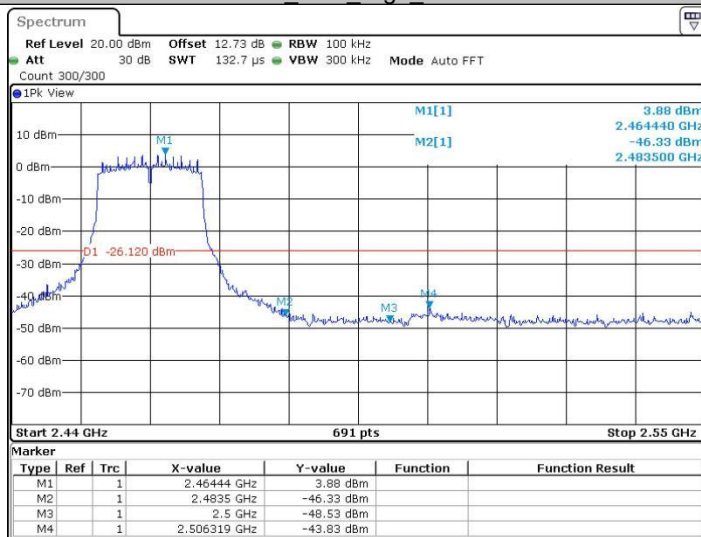
Date: 21 MAR 2024 13:38:23

### 11G\_Ant2\_Low\_2412



Date: 21 MAR 2024 13:40:33

### 11G\_Ant2\_High\_2462



Date: 21 MAR 2024 13:45:02

### 11N20SISO\_Ant2\_Low\_2412



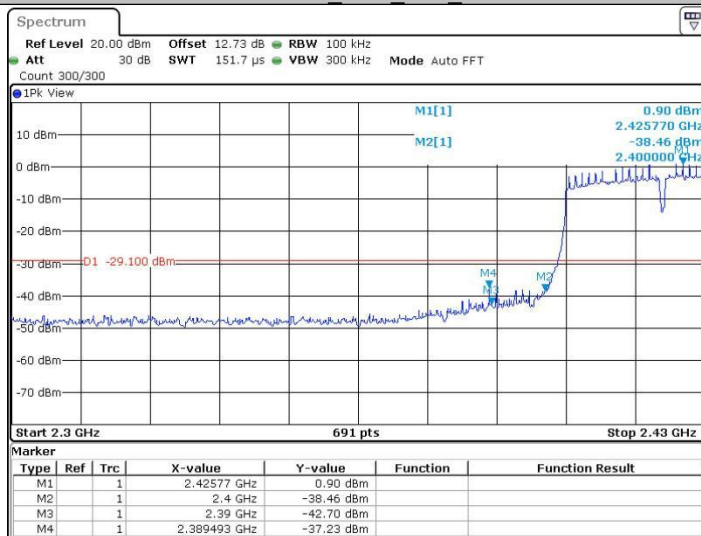
Date: 21 MAR 2024 13:46:57

### 11N20SISO\_Ant2\_High\_2462



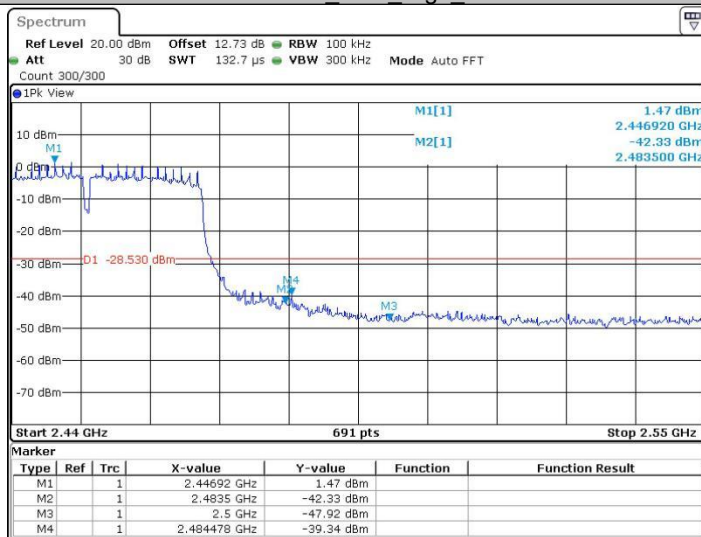
Date: 21 MAR 2024 13:50:12

### 11N40SISO\_Ant2\_Low\_2422



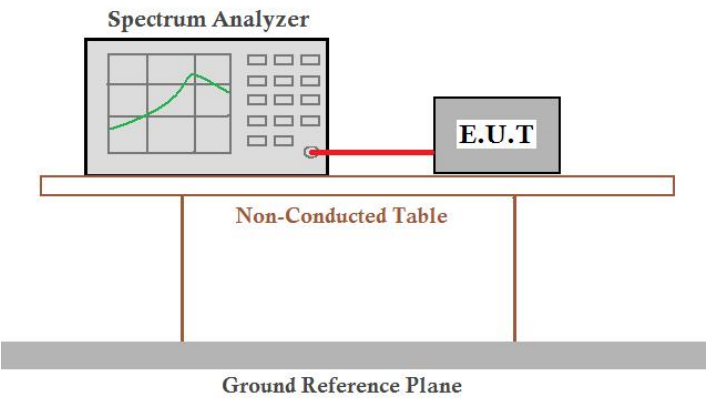
Date: 21 MAR 2024 13:52:15

### 11N40SISO\_Ant2\_High\_2452



Date: 21 MAR 2024 13:56:07

## 5.7 RF Conducted Spurious Emissions

|                        |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:           | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                       |
| Test Setup:            |  <p>Offset=cable loss+ attenuation factor</p>                                                                                                                                                                                                                                                         |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates                                                                                                                                                                                                                                                                                                                                   |
| Final Test Mode:       | Only the worst case is recorded in the report.                                                                                                                                                                                                                                                                                                                                          |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                    |

## Test Result

ANT1:

| TestMode  | Frequency[MHz] | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|----------------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | 2412           | Reference          | 3.42              | 3.42            | ---            | PASS    |
|           |                | 30~1000            | 3.42              | -53.68          | ≤-26.58        | PASS    |
|           |                | 1000~26500         | 3.42              | -50.23          | ≤-26.58        | PASS    |
|           | 2437           | Reference          | 4.39              | 4.39            | ---            | PASS    |
|           |                | 30~1000            | 4.39              | -53.95          | ≤-25.61        | PASS    |
|           |                | 1000~26500         | 4.39              | -49.42          | ≤-25.61        | PASS    |
|           | 2462           | Reference          | 4.03              | 4.03            | ---            | PASS    |
|           |                | 30~1000            | 4.03              | -52.49          | ≤-25.97        | PASS    |
|           |                | 1000~26500         | 4.03              | -50.91          | ≤-25.97        | PASS    |
| 11G       | 2412           | Reference          | 6.19              | 6.19            | ---            | PASS    |
|           |                | 30~1000            | 6.19              | -53.67          | ≤-23.81        | PASS    |
|           |                | 1000~26500         | 6.19              | -50.57          | ≤-23.81        | PASS    |
|           | 2437           | Reference          | 6.70              | 6.70            | ---            | PASS    |
|           |                | 30~1000            | 6.70              | -53.74          | ≤-23.3         | PASS    |
|           |                | 1000~26500         | 6.70              | -49.62          | ≤-23.3         | PASS    |
|           | 2462           | Reference          | 6.46              | 6.46            | ---            | PASS    |
|           |                | 30~1000            | 6.46              | -54.11          | ≤-23.54        | PASS    |
|           |                | 1000~26500         | 6.46              | -50.41          | ≤-23.54        | PASS    |
| 11N20SISO | 2412           | Reference          | 6.23              | 6.23            | ---            | PASS    |
|           |                | 30~1000            | 6.23              | -54.69          | ≤-23.77        | PASS    |
|           |                | 1000~26500         | 6.23              | -50.42          | ≤-23.77        | PASS    |
|           | 2437           | Reference          | 6.65              | 6.65            | ---            | PASS    |
|           |                | 30~1000            | 6.65              | -53.68          | ≤-23.35        | PASS    |
|           |                | 1000~26500         | 6.65              | -50.06          | ≤-23.35        | PASS    |
|           | 2462           | Reference          | 6.56              | 6.56            | ---            | PASS    |
|           |                | 30~1000            | 6.56              | -53.28          | ≤-23.44        | PASS    |
|           |                | 1000~26500         | 6.56              | -49.04          | ≤-23.44        | PASS    |
| 11N40SISO | 2422           | Reference          | 3.89              | 3.89            | ---            | PASS    |
|           |                | 30~1000            | 3.89              | -53.49          | ≤-26.11        | PASS    |
|           |                | 1000~26500         | 3.89              | -50.42          | ≤-26.11        | PASS    |
|           | 2437           | Reference          | 4.21              | 4.21            | ---            | PASS    |
|           |                | 30~1000            | 4.21              | -53.94          | ≤-25.79        | PASS    |
|           |                | 1000~26500         | 4.21              | -50.19          | ≤-25.79        | PASS    |

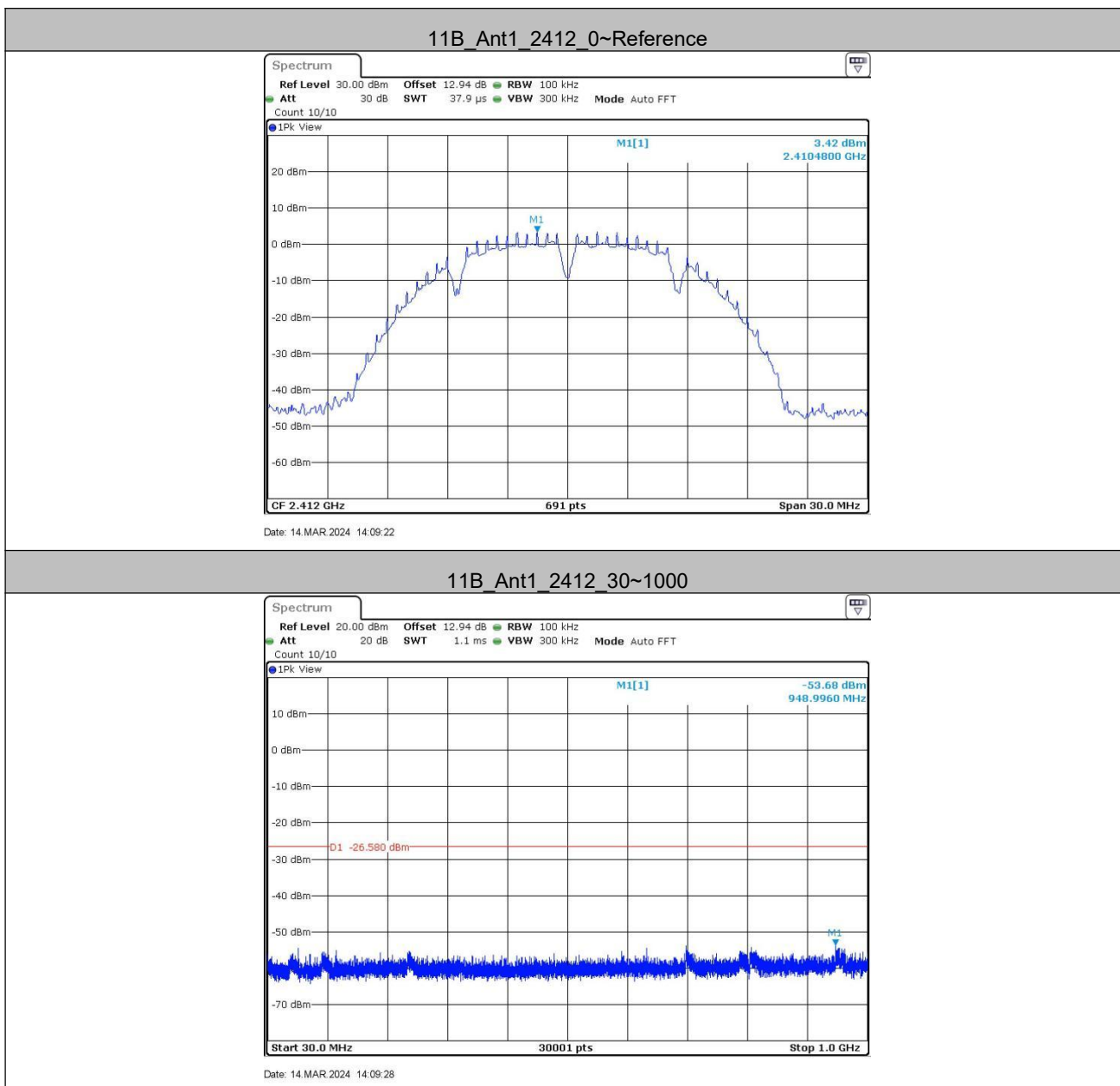
|  |      |            |      |        |               |      |
|--|------|------------|------|--------|---------------|------|
|  | 2452 | Reference  | 3.61 | 3.61   | ---           | PASS |
|  |      | 30~1000    | 3.61 | -52.54 | $\leq -26.39$ | PASS |
|  |      | 1000~26500 | 3.61 | -50.53 | $\leq -26.39$ | PASS |

ANT2:

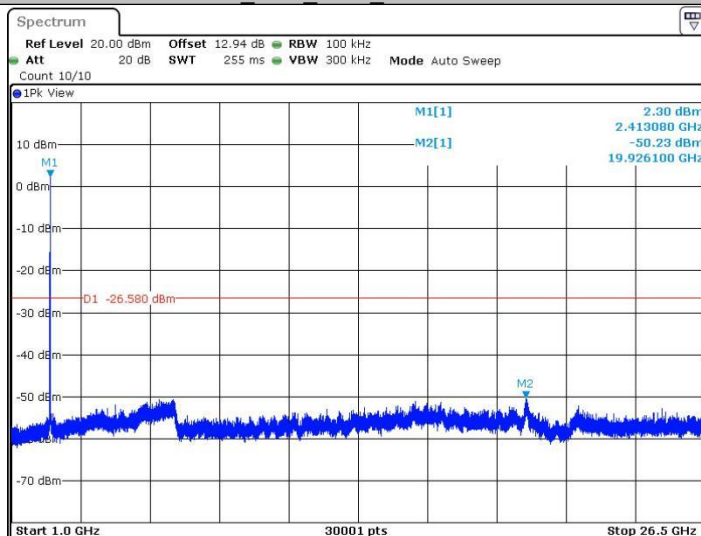
| TestMode  | Frequency[MHz] | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|----------------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | 2412           | Reference          | 0.77              | 0.77            | ---            | PASS    |
|           |                | 30~1000            | 0.77              | -51.46          | ≤-29.23        | PASS    |
|           |                | 1000~26500         | 0.77              | -50.14          | ≤-29.23        | PASS    |
|           | 2437           | Reference          | 1.69              | 1.69            | ---            | PASS    |
|           |                | 30~1000            | 1.69              | -53.27          | ≤-28.31        | PASS    |
|           |                | 1000~26500         | 1.69              | -50.65          | ≤-28.31        | PASS    |
|           | 2462           | Reference          | 1.65              | 1.65            | ---            | PASS    |
|           |                | 30~1000            | 1.65              | -53.07          | ≤-28.35        | PASS    |
|           |                | 1000~26500         | 1.65              | -50.63          | ≤-28.35        | PASS    |
| 11G       | 2412           | Reference          | 3.21              | 3.21            | ---            | PASS    |
|           |                | 30~1000            | 3.21              | -52.68          | ≤-26.79        | PASS    |
|           |                | 1000~26500         | 3.21              | -49.54          | ≤-26.79        | PASS    |
|           | 2437           | Reference          | 3.74              | 3.74            | ---            | PASS    |
|           |                | 30~1000            | 3.74              | -53.15          | ≤-26.26        | PASS    |
|           |                | 1000~26500         | 3.74              | -50.02          | ≤-26.26        | PASS    |
|           | 2462           | Reference          | 3.86              | 3.86            | ---            | PASS    |
|           |                | 30~1000            | 3.86              | -52.07          | ≤-26.14        | PASS    |
|           |                | 1000~26500         | 3.86              | -50.55          | ≤-26.14        | PASS    |
| 11N20SISO | 2412           | Reference          | 3.01              | 3.01            | ---            | PASS    |
|           |                | 30~1000            | 3.01              | -53.76          | ≤-26.99        | PASS    |
|           |                | 1000~26500         | 3.01              | -49.91          | ≤-26.99        | PASS    |
|           | 2437           | Reference          | 3.79              | 3.79            | ---            | PASS    |
|           |                | 30~1000            | 3.79              | -53.36          | ≤-26.21        | PASS    |
|           |                | 1000~26500         | 3.79              | -50.54          | ≤-26.21        | PASS    |
|           | 2462           | Reference          | 3.78              | 3.78            | ---            | PASS    |
|           |                | 30~1000            | 3.78              | -54.09          | ≤-26.22        | PASS    |
|           |                | 1000~26500         | 3.78              | -49.65          | ≤-26.22        | PASS    |
| 11N40SISO | 2422           | Reference          | 0.89              | 0.89            | ---            | PASS    |
|           |                | 30~1000            | 0.89              | -53.25          | ≤-29.11        | PASS    |
|           |                | 1000~26500         | 0.89              | -50.31          | ≤-29.11        | PASS    |
|           | 2437           | Reference          | 1.33              | 1.33            | ---            | PASS    |
|           |                | 30~1000            | 1.33              | -53.24          | ≤-28.67        | PASS    |
|           |                | 1000~26500         | 1.33              | -50.41          | ≤-28.67        | PASS    |
|           | 2452           | Reference          | 1.59              | 1.59            | ---            | PASS    |

|  |  |            |      |        |               |      |
|--|--|------------|------|--------|---------------|------|
|  |  | 30~1000    | 1.59 | -53.61 | $\leq -28.41$ | PASS |
|  |  | 1000~26500 | 1.59 | -49.95 | $\leq -28.41$ | PASS |

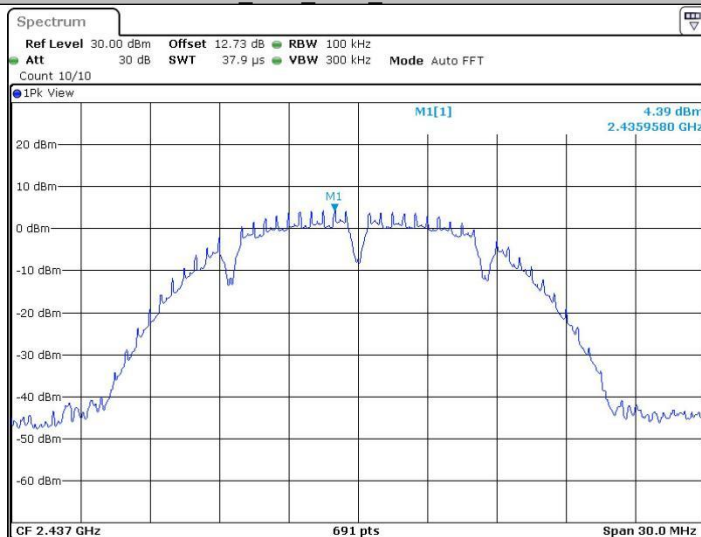
## Test Graphs



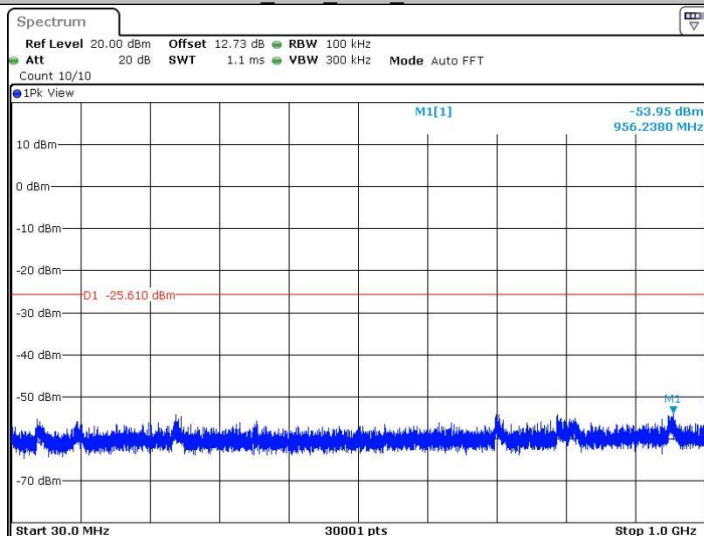
11B\_Ant1\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference

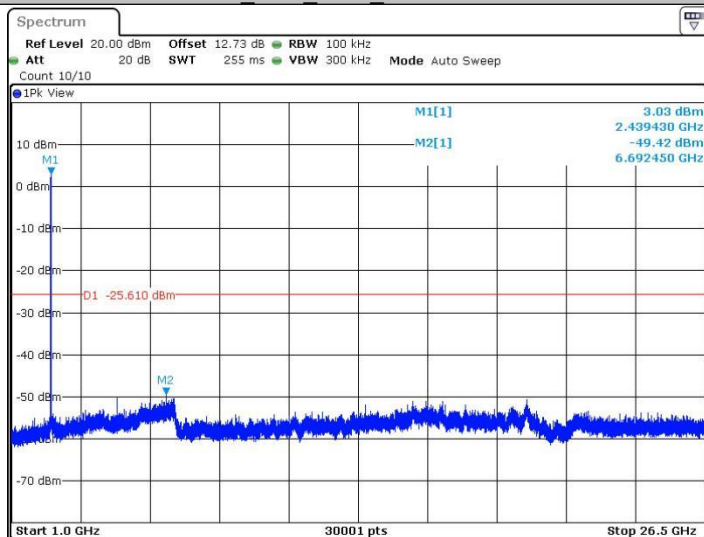


11B\_Ant1\_2437\_30~1000



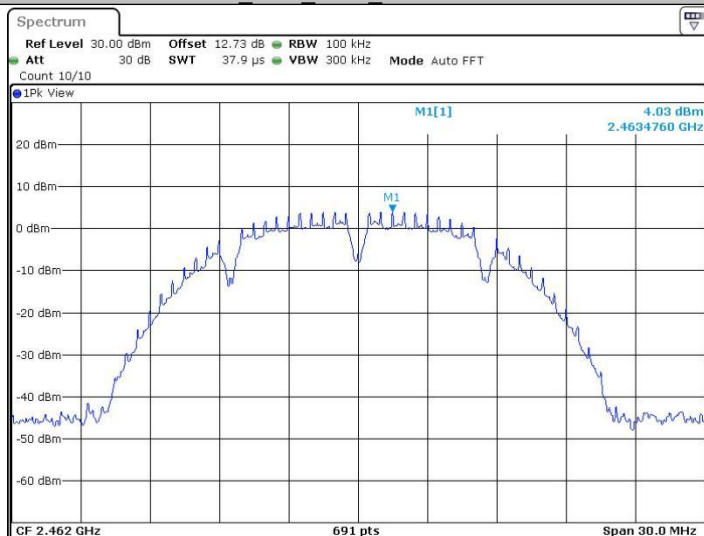
Date: 14 MAR 2024 14:12:50

11B\_Ant1\_2437\_1000~26500



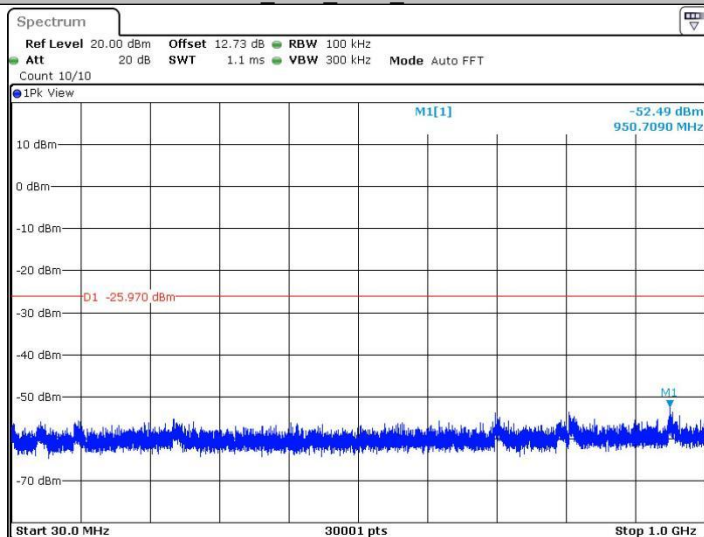
Date: 14 MAR 2024 14:13:13

11B\_Ant1\_2462\_0~Reference



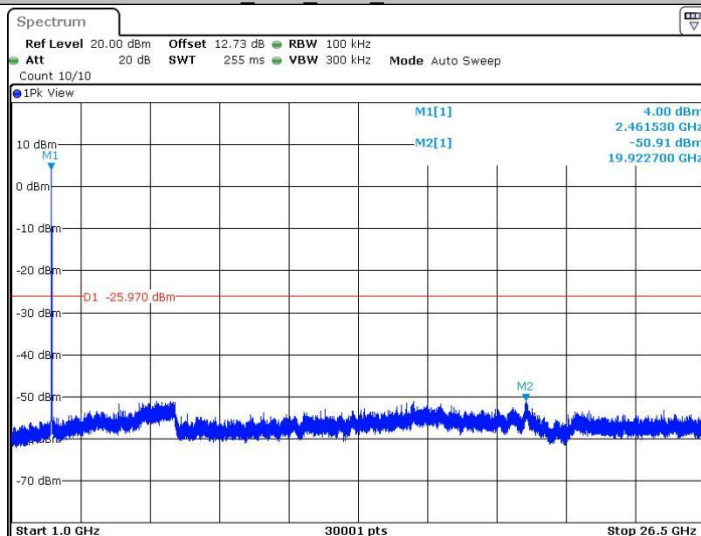
Date: 14 MAR 2024 14:15:33

11B\_Ant1\_2462\_30~1000



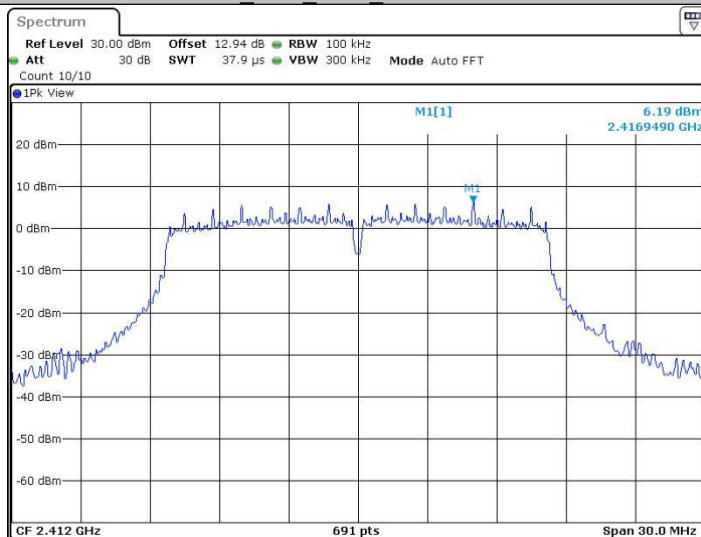
Date: 14 MAR 2024 14:15:40

11B\_Ant1\_2462\_1000~26500



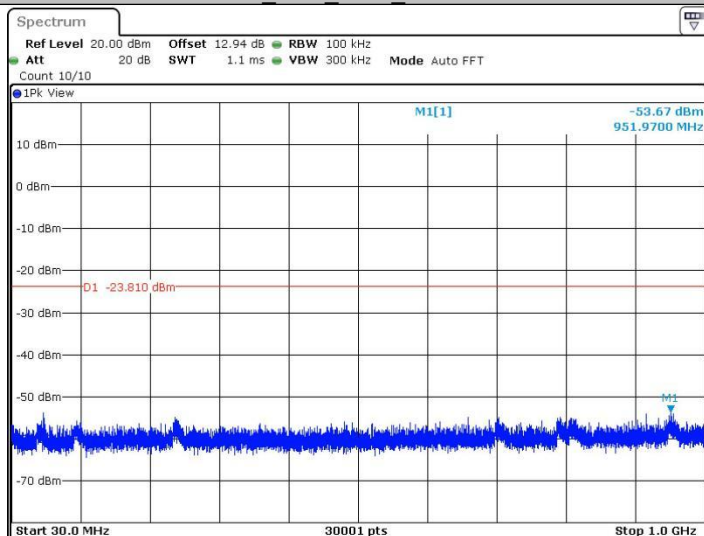
Date: 14 MAR 2024 14:16:02

11G\_Ant1\_2412\_0~Reference



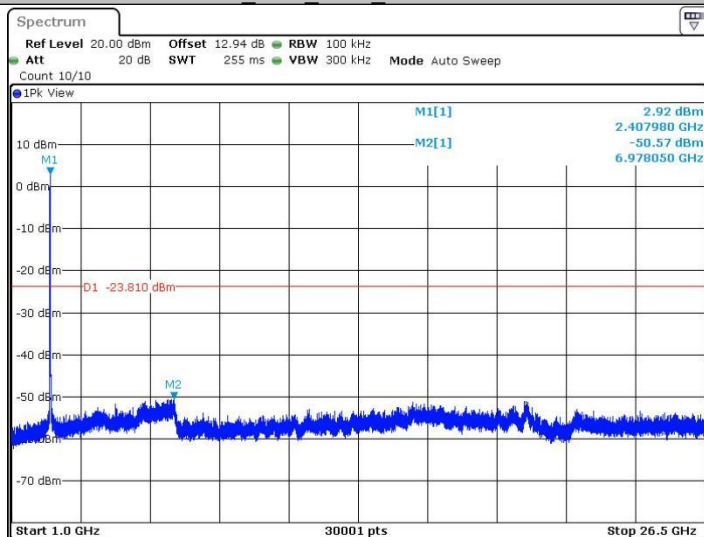
Date: 14 MAR 2024 14:20:02

11G\_Ant1\_2412\_30~1000



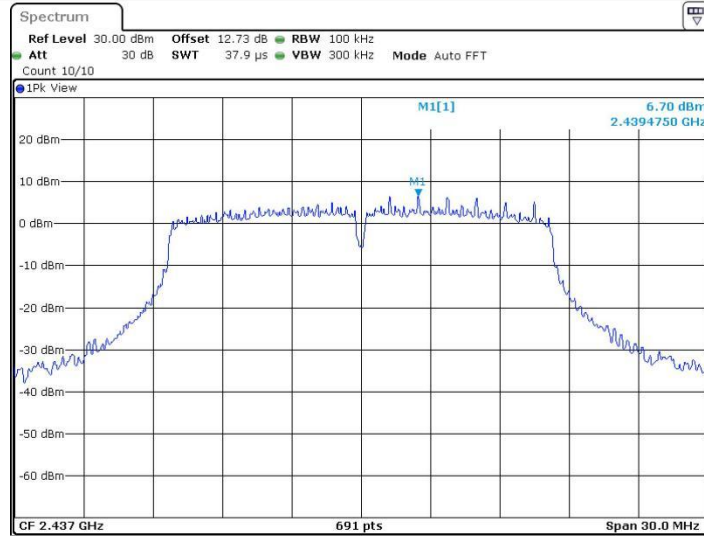
Date: 14 MAR 2024 14:20:08

11G\_Ant1\_2412\_1000~26500



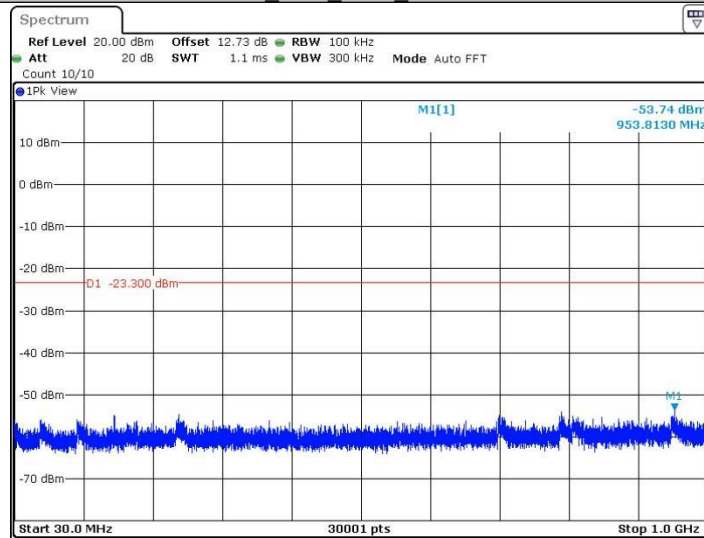
Date: 14 MAR 2024 14:20:30

11G\_Ant1\_2437\_0~Reference



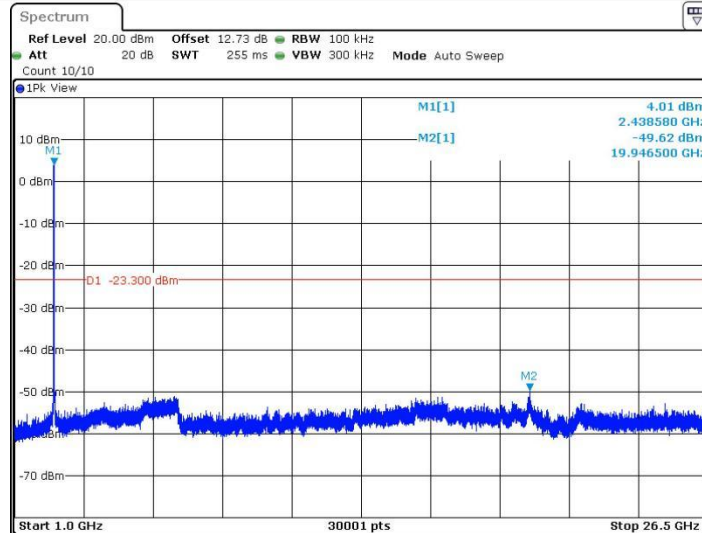
Date: 14 MAR 2024 14:23:36

11G\_Ant1\_2437\_30~1000



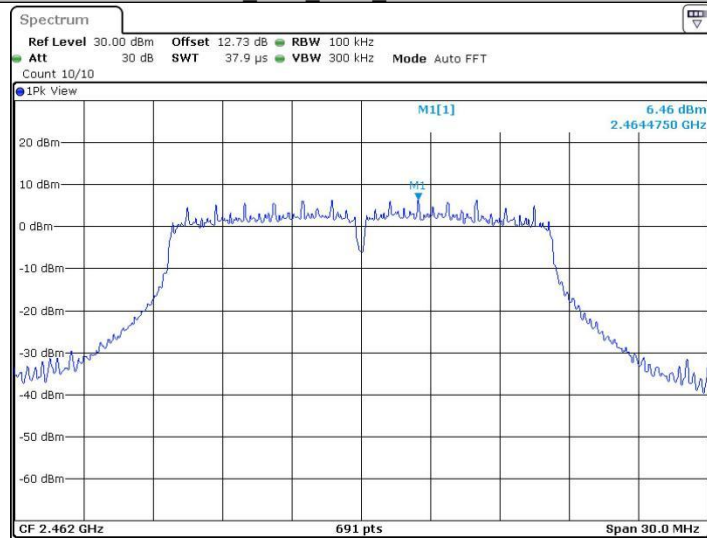
Date: 14 MAR 2024 14:23:42

11G\_Ant1\_2437\_1000~26500



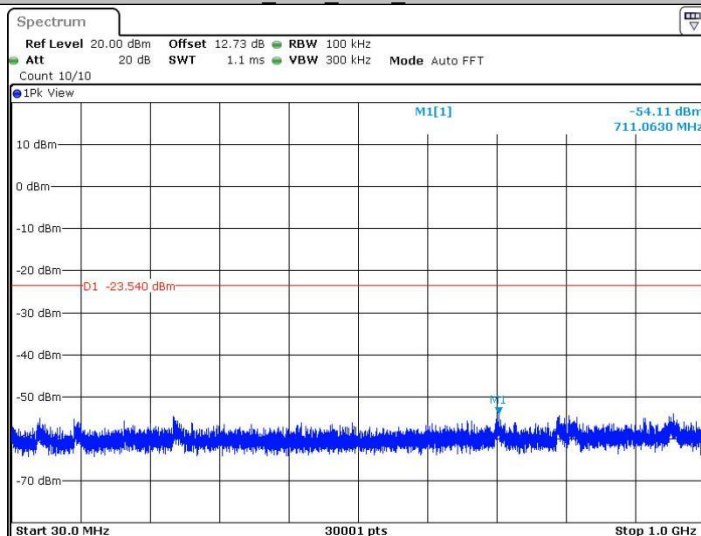
Date: 14 MAR 2024 14:24:05

11G\_Ant1\_2462\_0~Reference



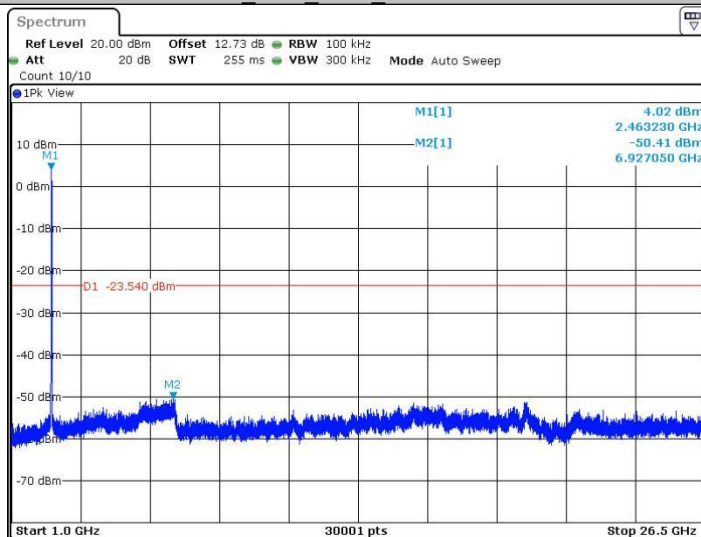
Date: 14 MAR 2024 14:26:00

11G\_Ant1\_2462\_30~1000



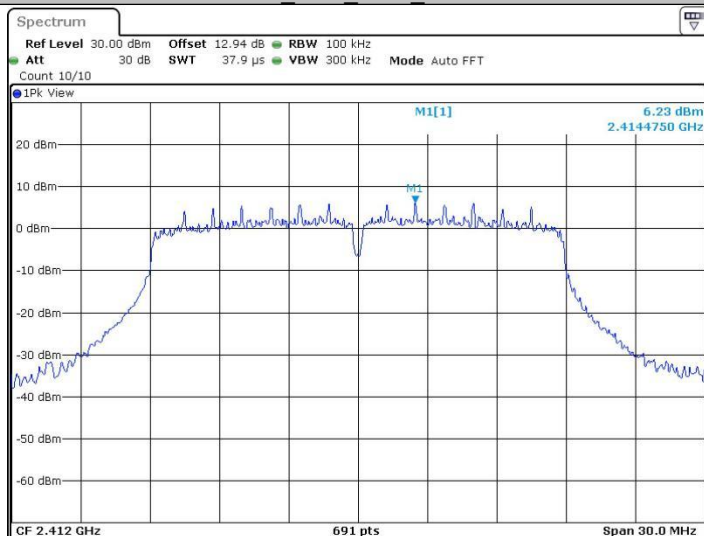
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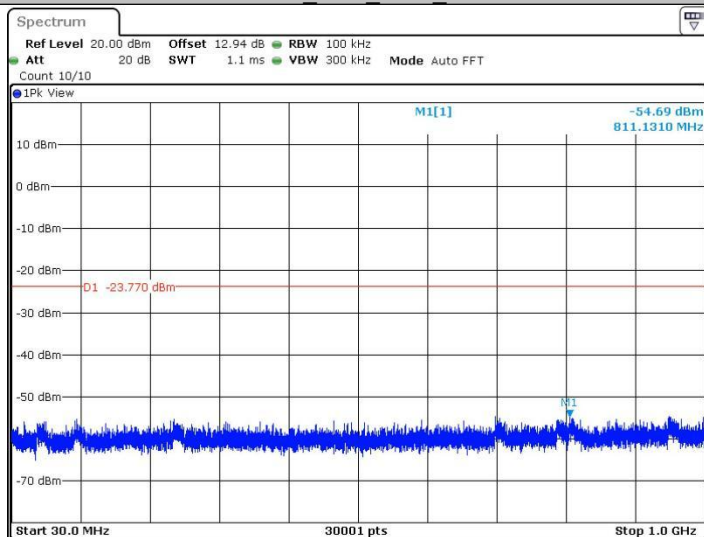
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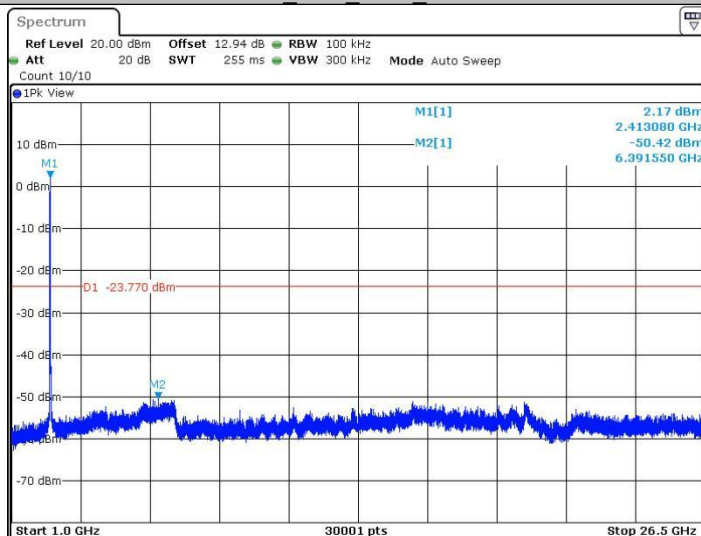
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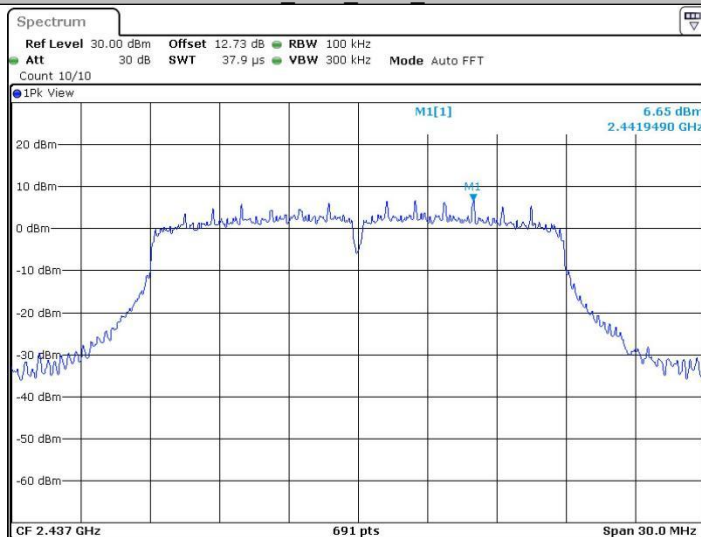
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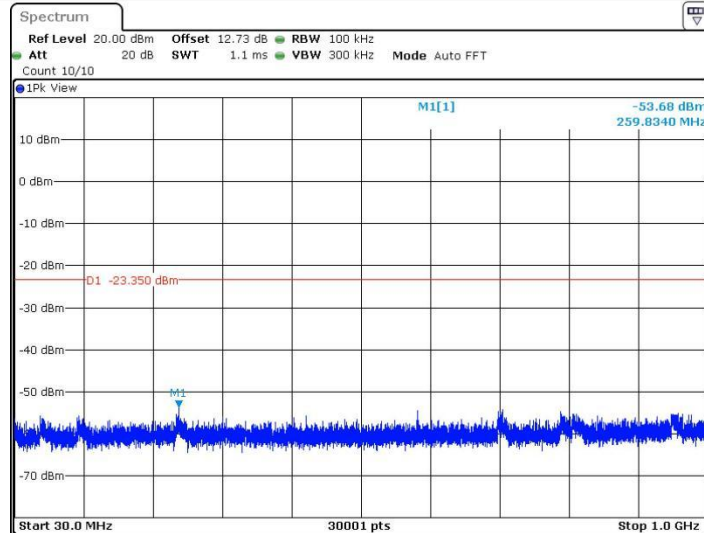
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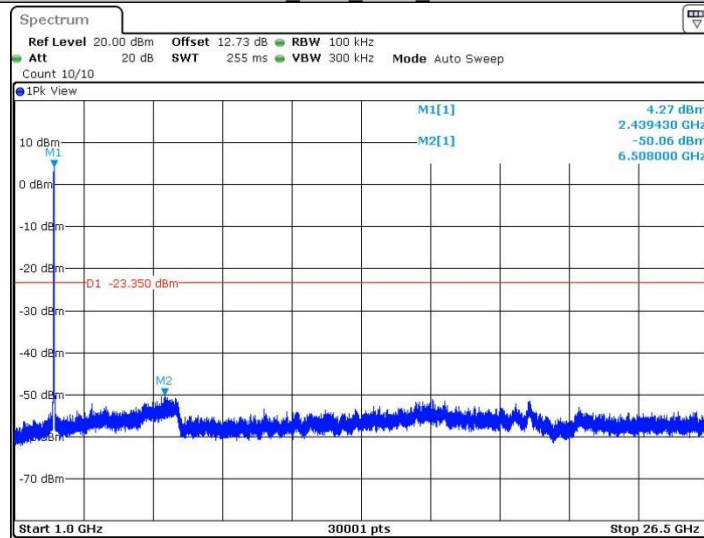
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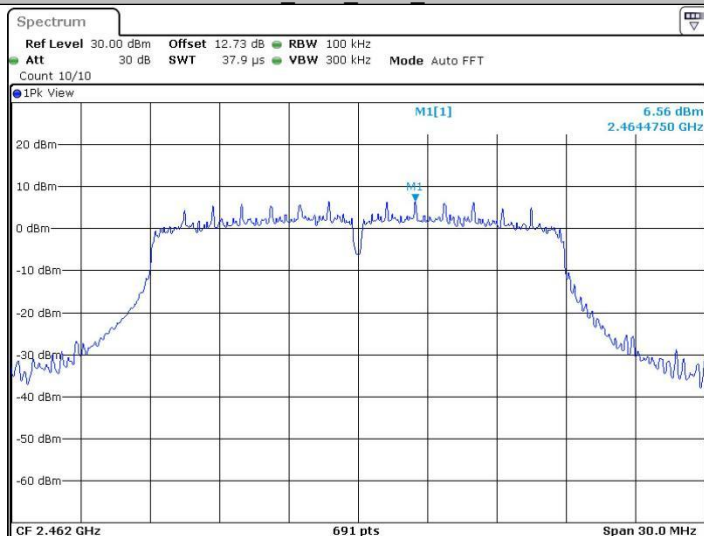
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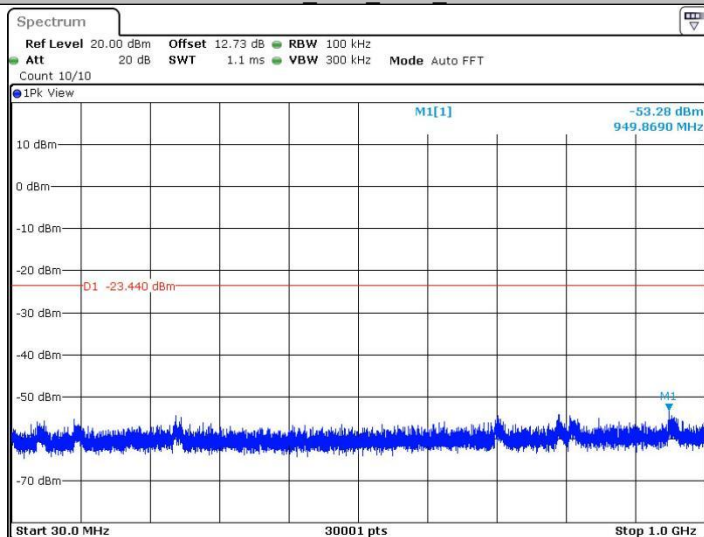
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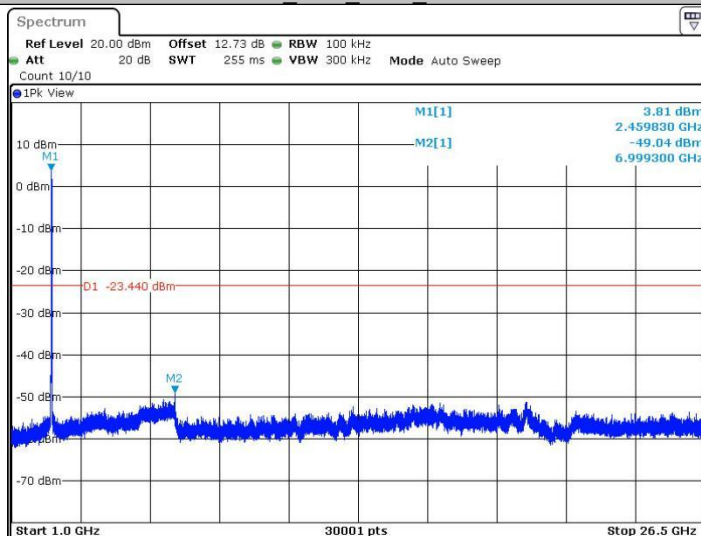
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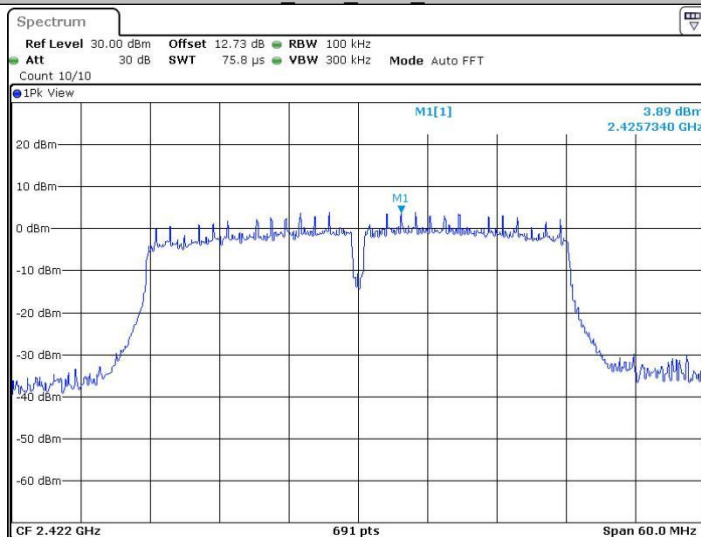
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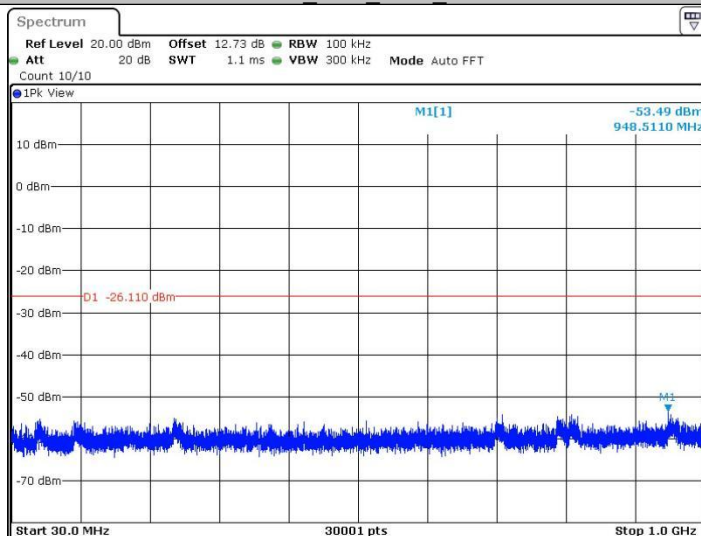
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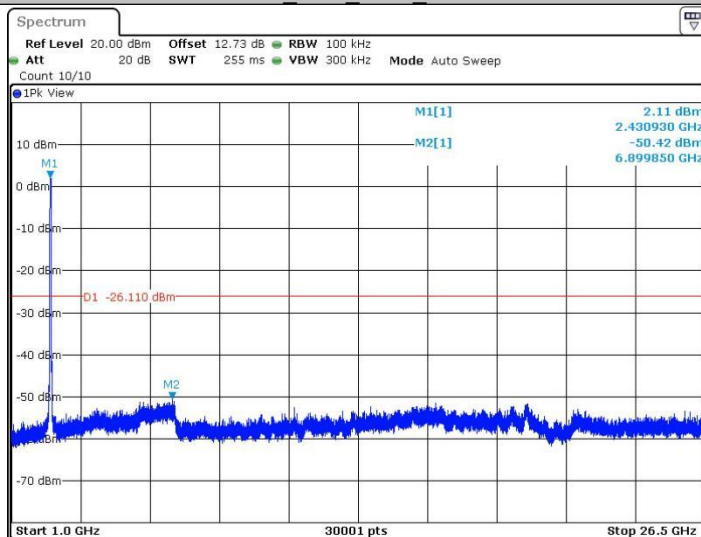
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Date: 14 MAR 2024 14:37:31