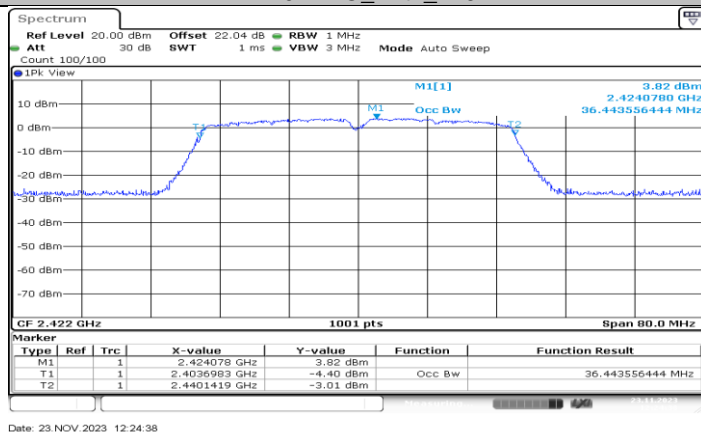
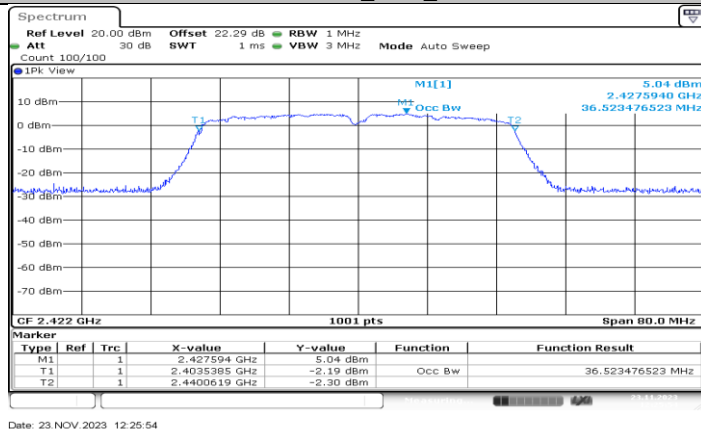


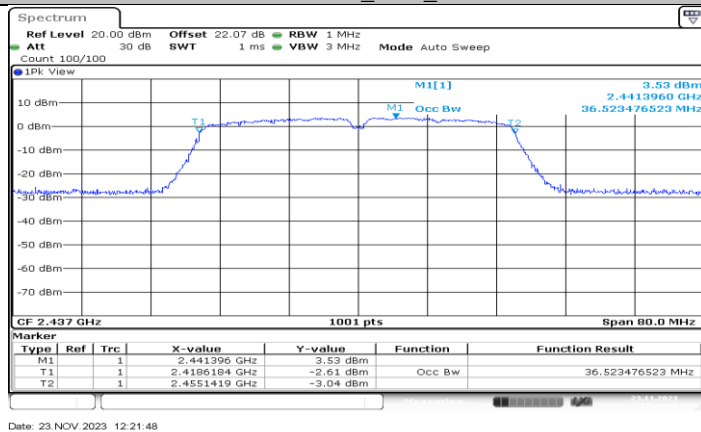
11N20MIMO\_Ant2\_2462



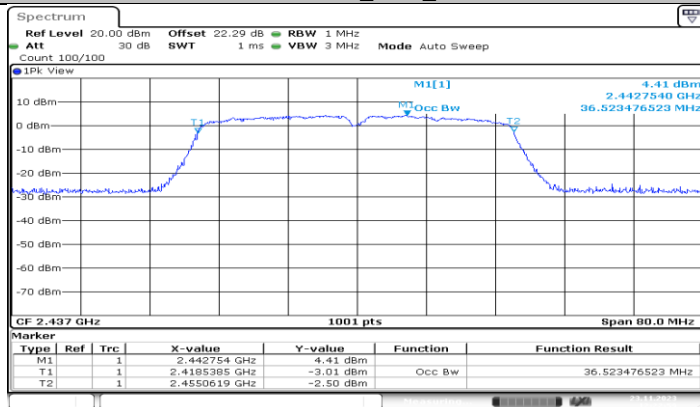
11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422

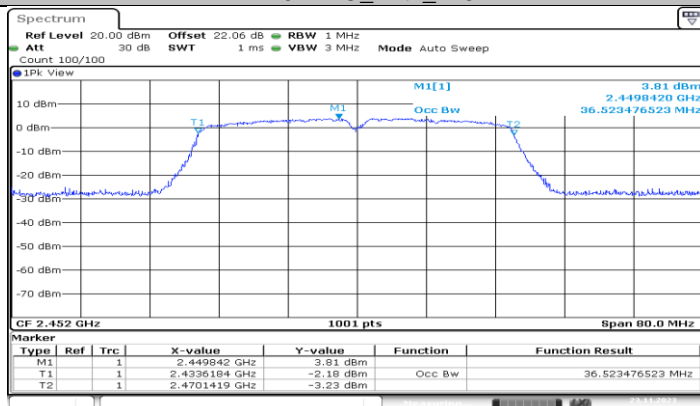


### 11N40MIMO\_Ant1\_2437



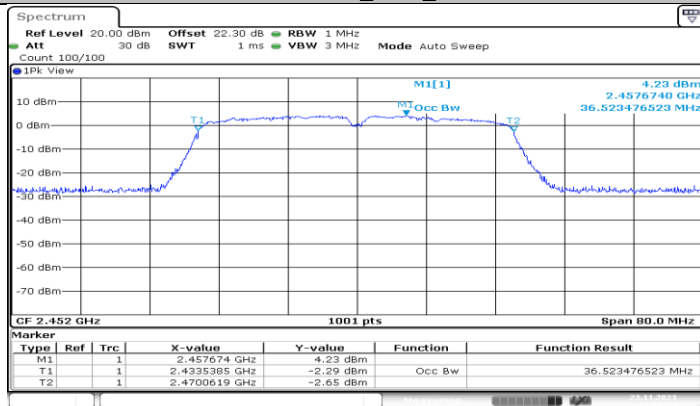
Date: 23.NOV.2023 12:23:00

### 11N40MIMO\_Ant2\_2437



Date: 23.NOV.2023 12:14:19

### 11N40MIMO\_Ant1\_2452



Date: 23.NOV.2023 12:14:54

### 11N40MIMO\_Ant2\_2452

### 11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

#### 11.3.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|----------------|-------------|------------|---------|
| 11B       | Ant1    | 2412           | 16.83       | ≤30.00     | PASS    |
|           | Ant2    | 2412           | 17.08       | ≤30.00     | PASS    |
|           | Ant1    | 2437           | 17.21       | ≤30.00     | PASS    |
|           | Ant2    | 2437           | 16.64       | ≤30.00     | PASS    |
|           | Ant1    | 2462           | 16.96       | ≤30.00     | PASS    |
|           | Ant2    | 2462           | 16.73       | ≤30.00     | PASS    |
| 11G       | Ant1    | 2412           | 15.53       | ≤30.00     | PASS    |
|           | Ant2    | 2412           | 15.76       | ≤30.00     | PASS    |
|           | Ant1    | 2437           | 15.19       | ≤30.00     | PASS    |
|           | Ant2    | 2437           | 15.93       | ≤30.00     | PASS    |
|           | Ant1    | 2462           | 14.78       | ≤30.00     | PASS    |
|           | Ant2    | 2462           | 14.91       | ≤30.00     | PASS    |
| 11N20MIMO | Ant1    | 2412           | 12.47       | ≤30.00     | PASS    |
|           | Ant2    | 2412           | 13.14       | ≤30.00     | PASS    |
|           | total   | 2412           | 15.83       | ≤30.00     | PASS    |
|           | Ant1    | 2437           | 12.37       | ≤30.00     | PASS    |
|           | Ant2    | 2437           | 12.42       | ≤30.00     | PASS    |
|           | total   | 2437           | 15.41       | ≤30.00     | PASS    |
|           | Ant1    | 2462           | 12.40       | ≤30.00     | PASS    |
|           | Ant2    | 2462           | 12.27       | ≤30.00     | PASS    |
| 11N40MIMO | total   | 2462           | 15.35       | ≤30.00     | PASS    |
|           | Ant1    | 2422           | 10.92       | ≤30.00     | PASS    |
|           | Ant2    | 2422           | 11.41       | ≤30.00     | PASS    |
|           | total   | 2422           | 14.18       | ≤30.00     | PASS    |
|           | Ant1    | 2437           | 10.42       | ≤30.00     | PASS    |
|           | Ant2    | 2437           | 11.11       | ≤30.00     | PASS    |
|           | total   | 2437           | 13.79       | ≤30.00     | PASS    |
|           | Ant1    | 2452           | 10.34       | ≤30.00     | PASS    |
|           | Ant2    | 2452           | 10.99       | ≤30.00     | PASS    |
|           | total   | 2452           | 13.69       | ≤30.00     | PASS    |

Note: 1. Conducted Power=Meas. Level+ Correction Factor

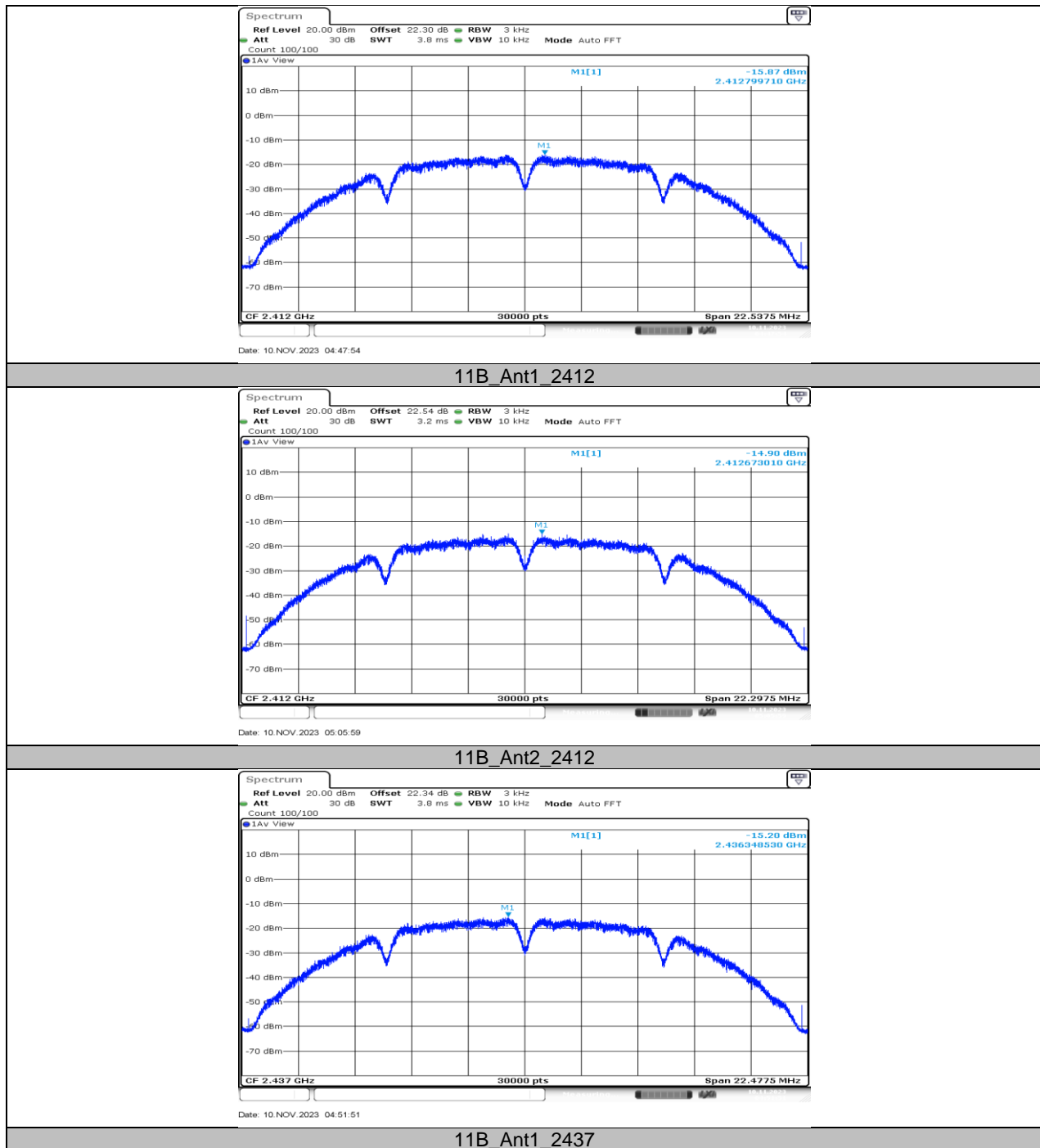
2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

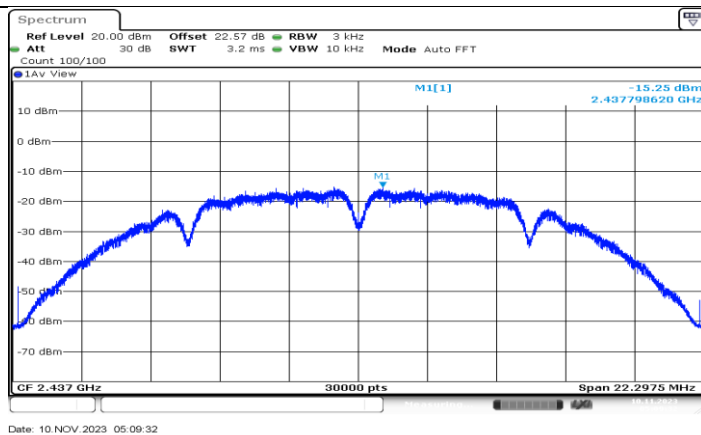
## 11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

### 11.4.1. Test Result

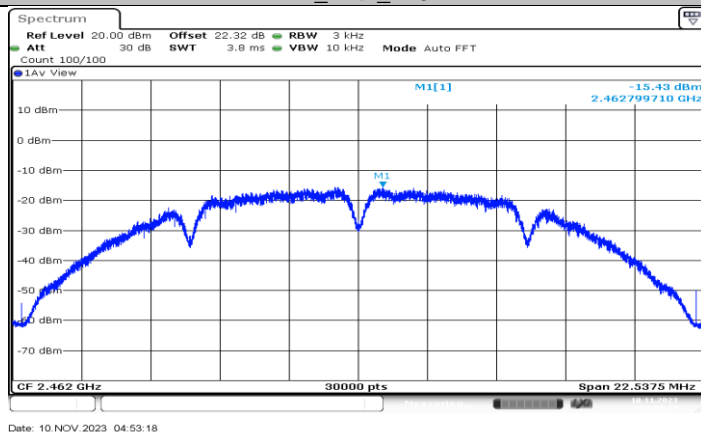
| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -15.87           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -14.90           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -15.20           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -15.25           | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -15.43           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -14.90           | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -16.57           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -15.70           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -16.41           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -15.42           | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -16.93           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -16.30           | ≤8.00           | PASS    |
| 11N20MIMO | Ant1    | 2412           | -18.98           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -18.50           | ≤8.00           | PASS    |
|           | total   | 2412           | -15.72           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -19.02           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -19.22           | ≤8.00           | PASS    |
|           | total   | 2437           | -16.11           | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -18.97           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -19.39           | ≤8.00           | PASS    |
|           | total   | 2462           | -16.16           | ≤8.00           | PASS    |
| 11N40MIMO | Ant1    | 2422           | -21.77           | ≤8.00           | PASS    |
|           | Ant2    | 2422           | -21.12           | ≤8.00           | PASS    |
|           | total   | 2422           | -18.42           | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -22.27           | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -21.49           | ≤8.00           | PASS    |
|           | total   | 2437           | -18.85           | ≤8.00           | PASS    |
|           | Ant1    | 2452           | -21.46           | ≤8.00           | PASS    |
|           | Ant2    | 2452           | -21.75           | ≤8.00           | PASS    |
|           | total   | 2452           | -18.59           | ≤8.00           | PASS    |

## 11.4.2. Test Graphs

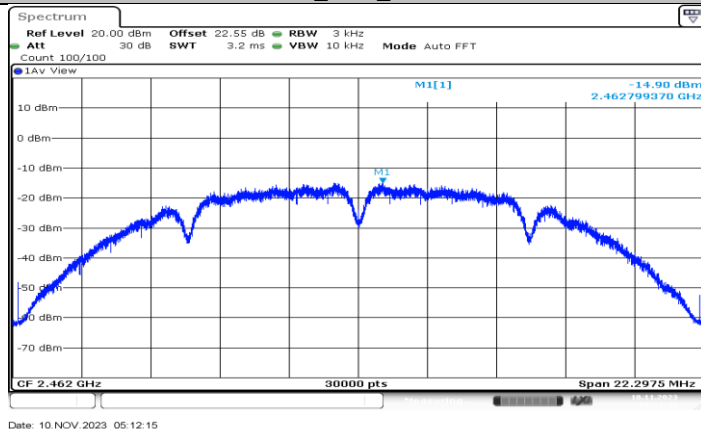




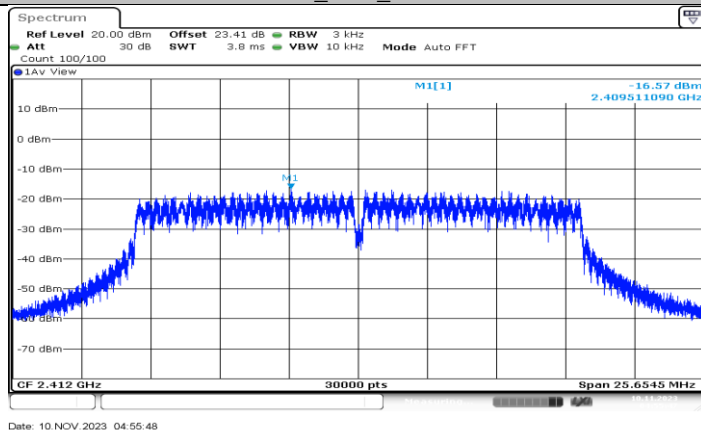
11B\_Ant2\_2437



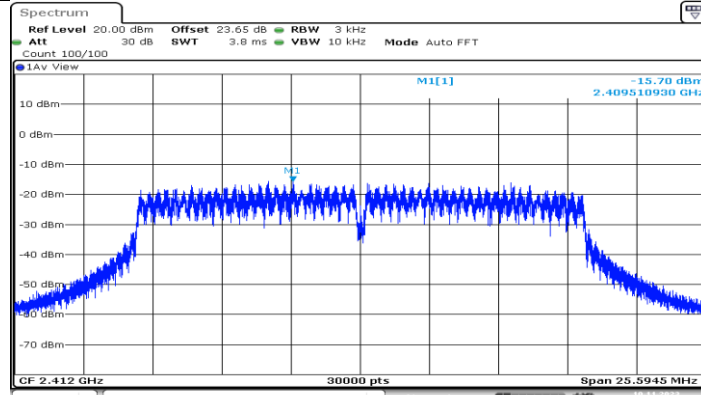
11B\_Ant1\_2462



11B\_Ant2\_2462

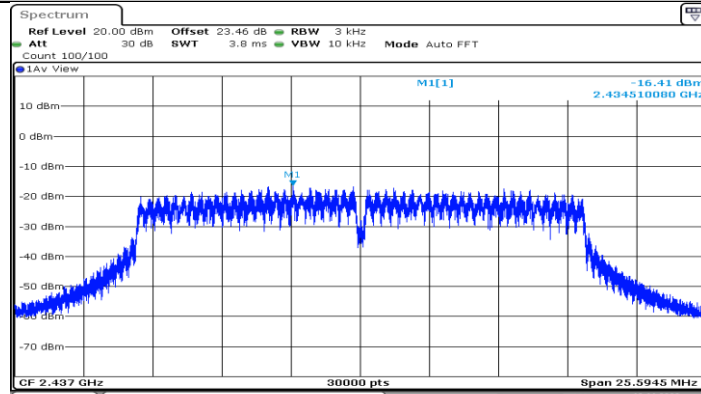


## 11G\_Ant1\_2412



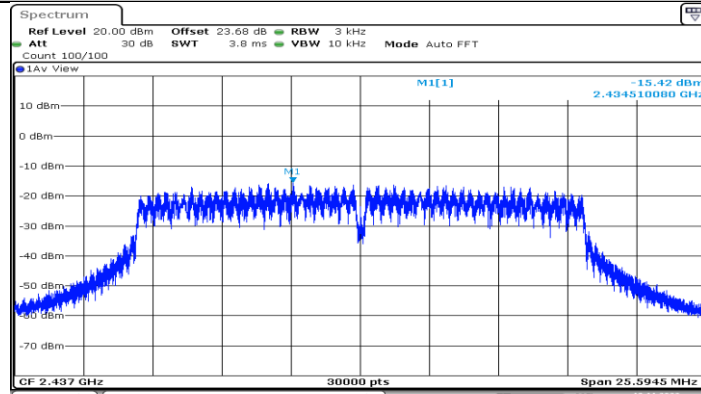
Date: 10 NOV 2023 05:16:38

## 11G\_Ant2\_2412



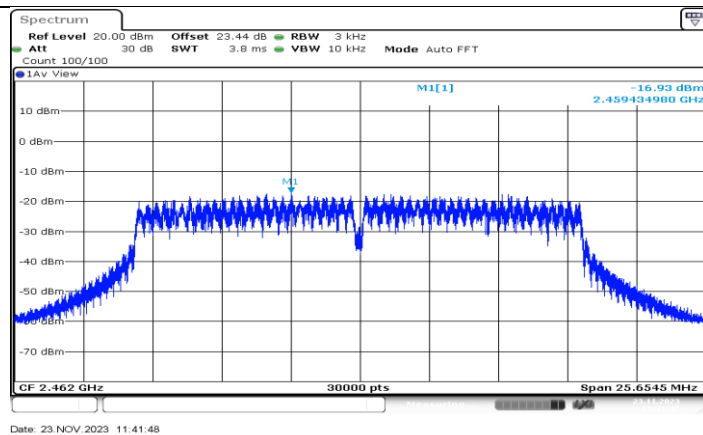
Date: 10 NOV 2023 04:59:51

## 11G\_Ant1\_2437



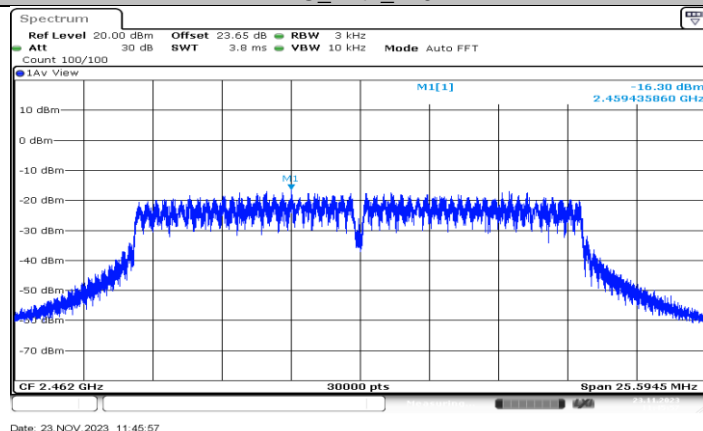
Date: 10 NOV 2023 05:19:33

## 11G\_Ant2\_2437



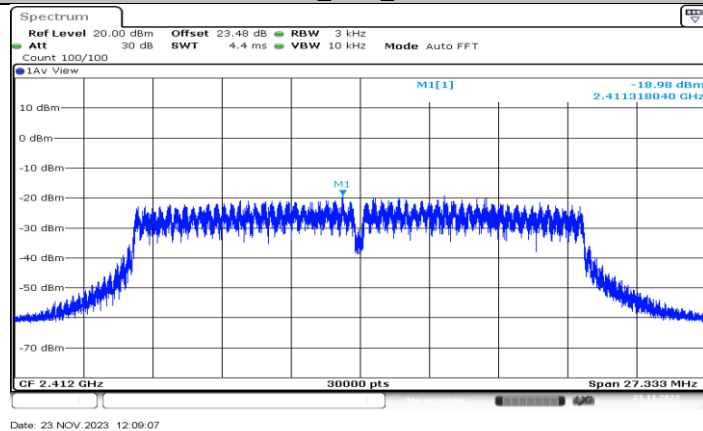
Date: 23.NOV.2023 11:41:48

11G\_Ant1\_2462



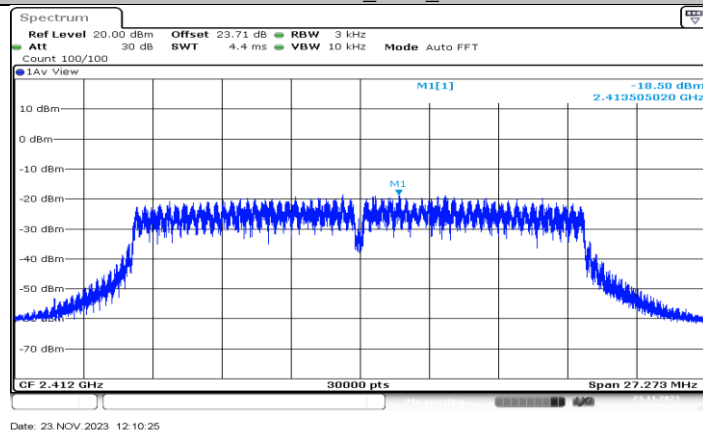
Date: 23.NOV.2023 11:45:57

11G\_Ant2\_2462



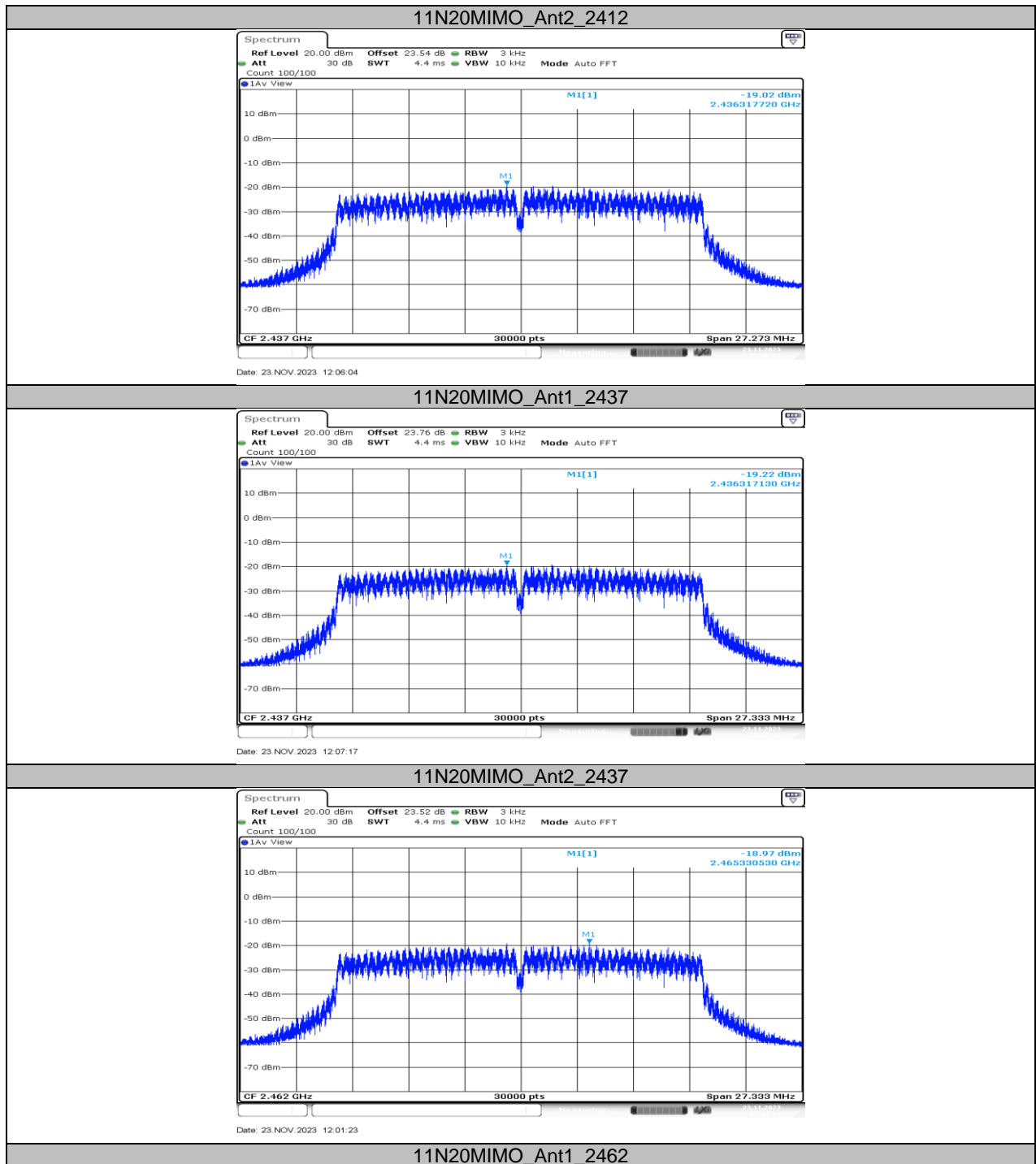
Date: 23.NOV.2023 12:09:07

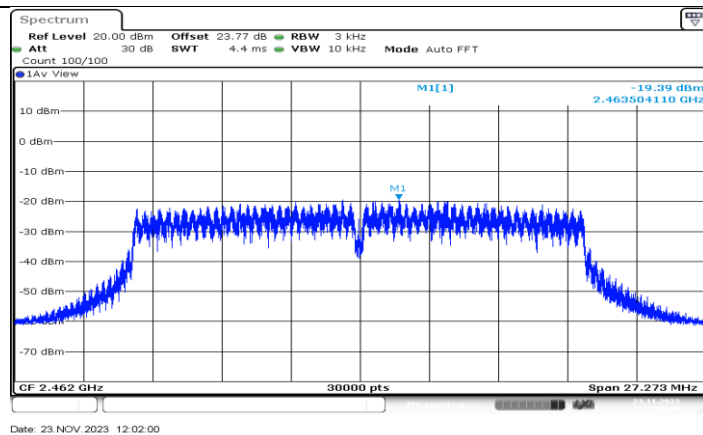
11N20MIMO\_Ant1\_2412



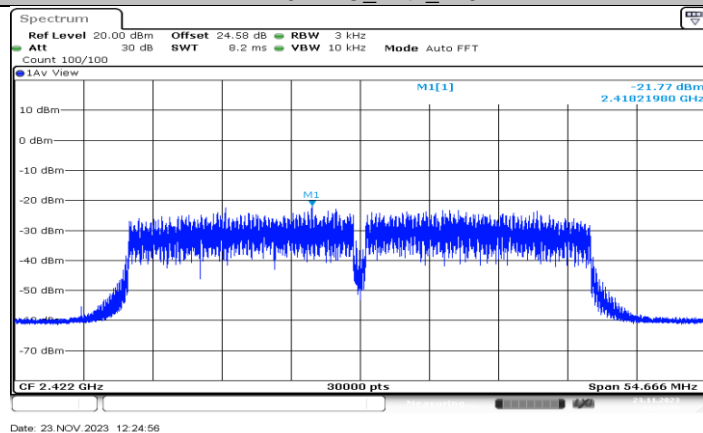
Date: 23.NOV.2023 12:10:25



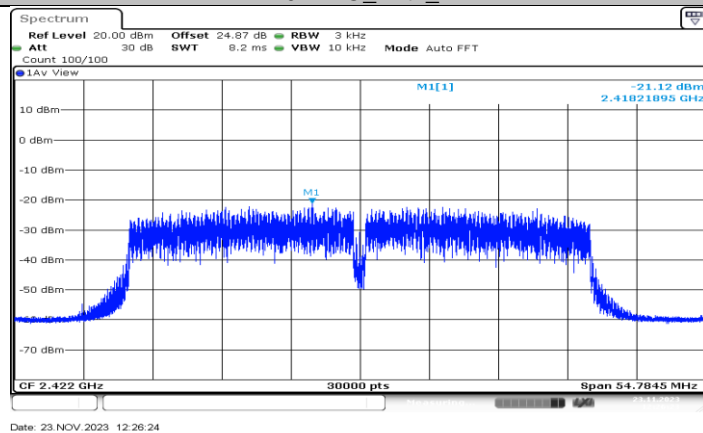




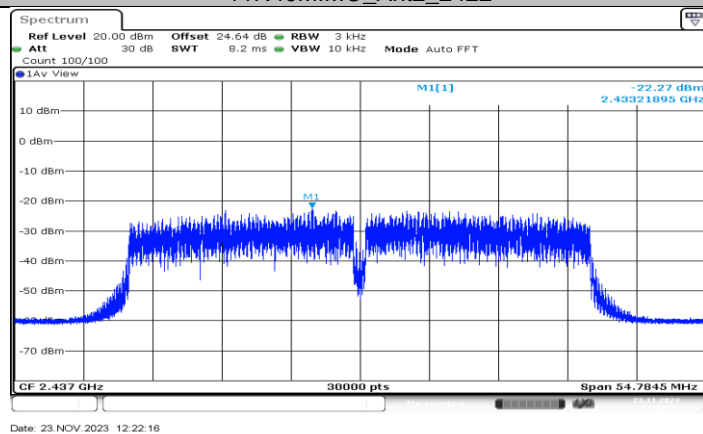
11N20MIMO\_Ant2\_2462



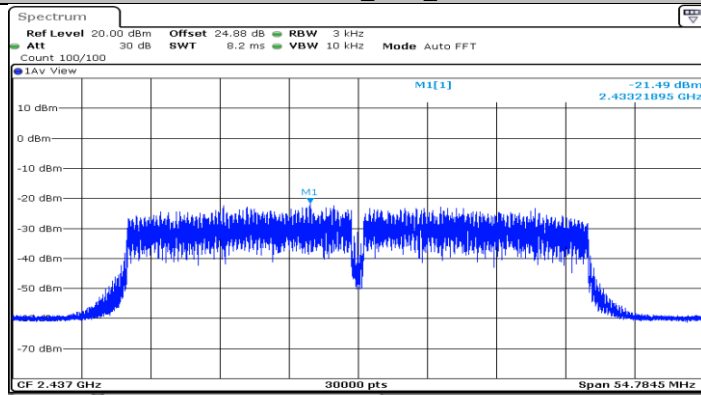
11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422

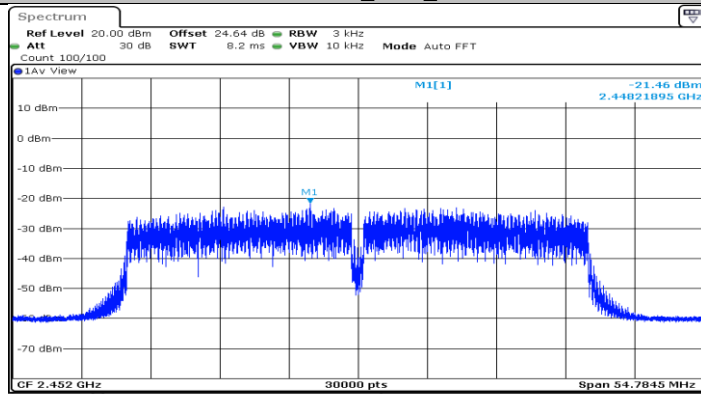


### 11N40MIMO\_Ant1\_2437



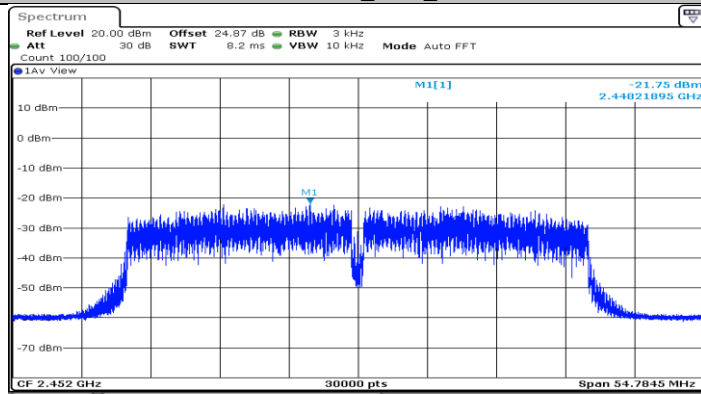
Date: 23.NOV.2023 12:23:29

### 11N40MIMO\_Ant2\_2437



Date: 23.NOV.2023 12:14:48

### 11N40MIMO\_Ant1\_2452



Date: 23.NOV.2023 12:15:24

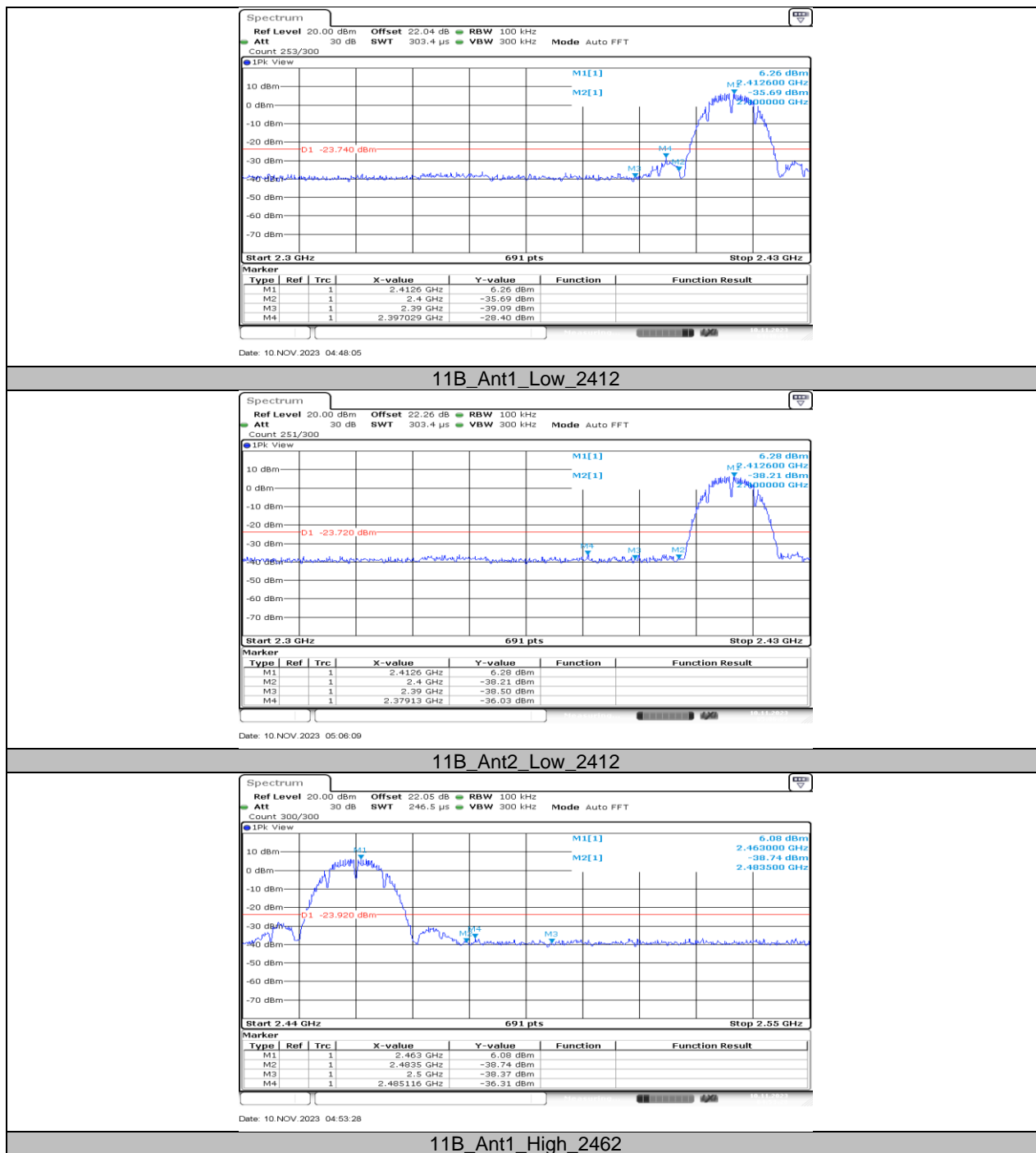
### 11N40MIMO\_Ant2\_2452

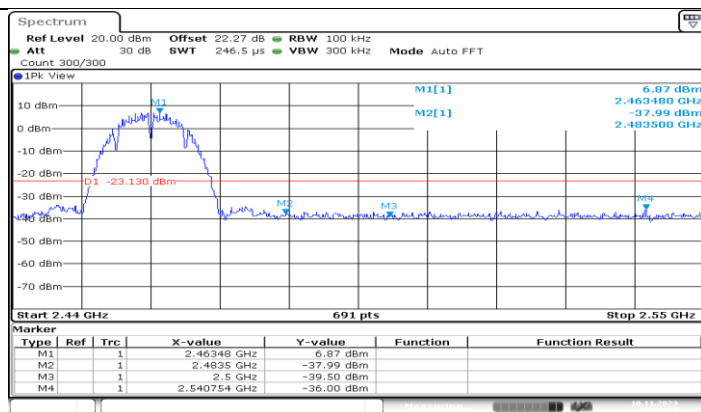
## 11.5. APPENDIX E: BAND EDGE MEASUREMENTS

### 11.5.1. Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412            | 6.26           | -28.4       | ≤-23.74    | PASS    |
|           | Ant2    | Low    | 2412            | 6.28           | -36.03      | ≤-23.72    | PASS    |
|           | Ant1    | High   | 2462            | 6.08           | -36.31      | ≤-23.92    | PASS    |
|           | Ant2    | High   | 2462            | 6.87           | -36         | ≤-23.13    | PASS    |
| 11G       | Ant1    | Low    | 2412            | 0.94           | -34.57      | ≤-29.06    | PASS    |
|           | Ant2    | Low    | 2412            | 1.93           | -33.25      | ≤-28.07    | PASS    |
|           | Ant1    | High   | 2462            | 0.83           | -36.58      | ≤-29.17    | PASS    |
|           | Ant2    | High   | 2462            | 3.76           | -35.26      | ≤-26.24    | PASS    |
| 11N20MIMO | Ant1    | Low    | 2412            | 0.18           | -35.39      | ≤-29.82    | PASS    |
|           | Ant2    | Low    | 2412            | -1.30          | -34.71      | ≤-31.3     | PASS    |
|           | Ant1    | High   | 2462            | -0.09          | -36.41      | ≤-30.09    | PASS    |
|           | Ant2    | High   | 2462            | 0.21           | -36.5       | ≤-29.79    | PASS    |
| 11N40MIMO | Ant1    | Low    | 2422            | -4.21          | -43.09      | ≤-34.21    | PASS    |
|           | Ant2    | Low    | 2422            | -3.20          | -42.33      | ≤-33.2     | PASS    |
|           | Ant1    | High   | 2452            | -3.71          | -45.86      | ≤-33.71    | PASS    |
|           | Ant2    | High   | 2452            | -3.68          | -44.71      | ≤-33.68    | PASS    |

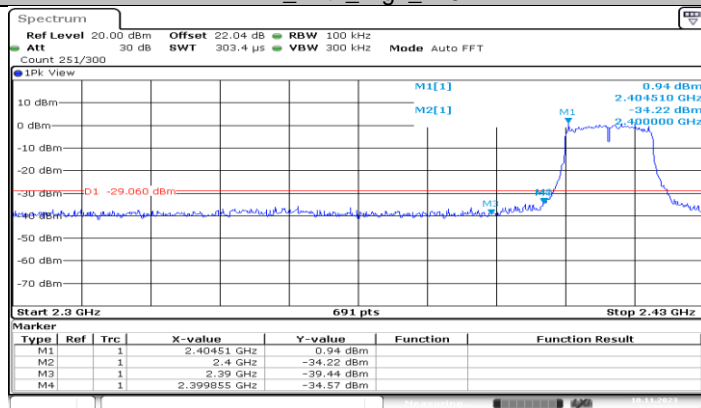
## 11.5.2. Test Graphs





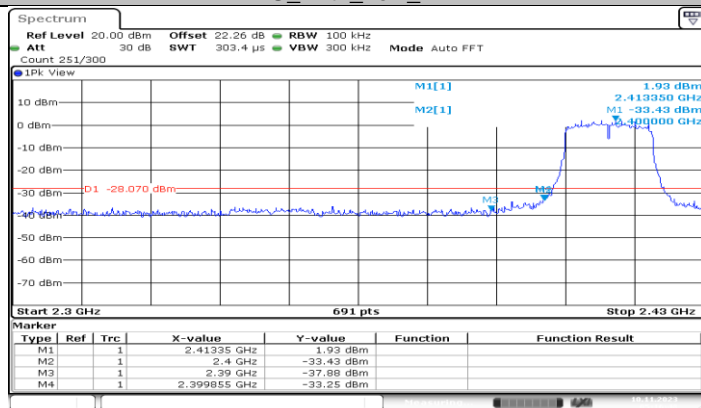
Date: 10.NOV.2023 05:12:26

### 11B\_Ant2\_High\_2462



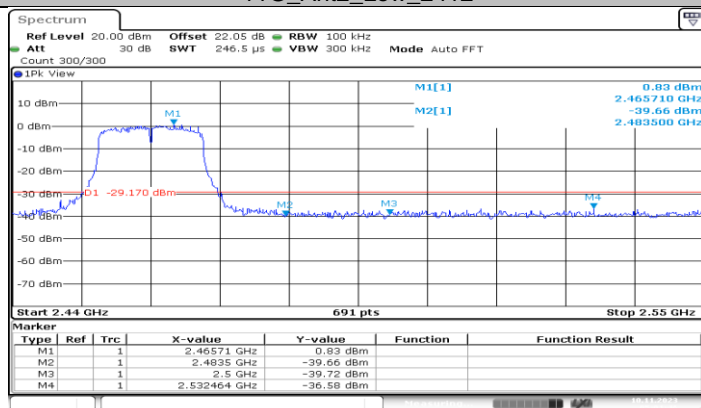
Date: 10.NOV.2023 04:55:58

### 11G\_Ant1\_Low\_2412



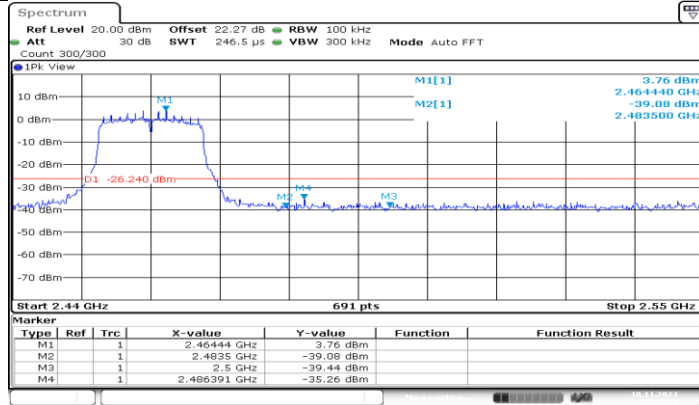
Date: 10.NOV.2023 05:16:48

### 11G\_Ant2\_Low\_2412



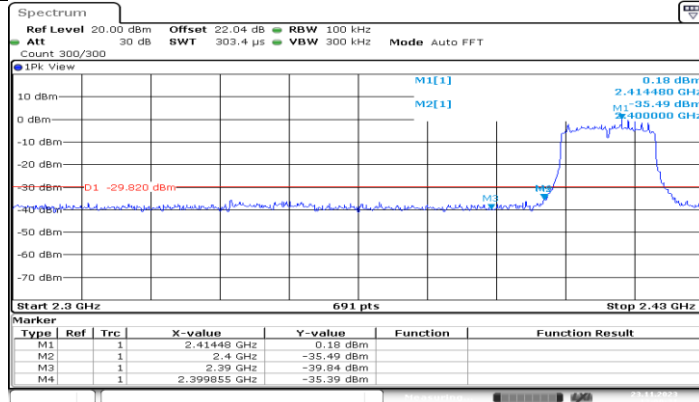
Date: 10.NOV.2023 05:01:48

### 11G\_Ant1\_High\_2462



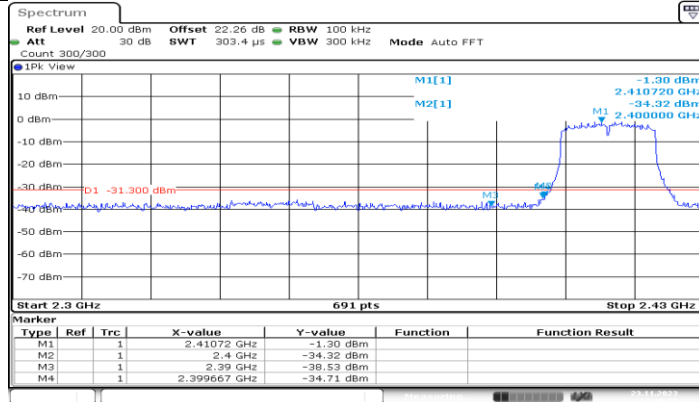
Date: 10 NOV 2023 05:24:04

### 11G\_Ant2\_High\_2462



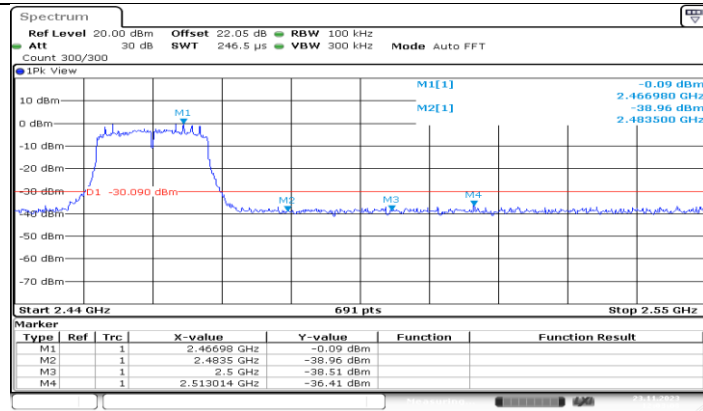
Date: 23 NOV 2023 12:09:21

### 11N20MIMO\_Ant1\_Low\_2412



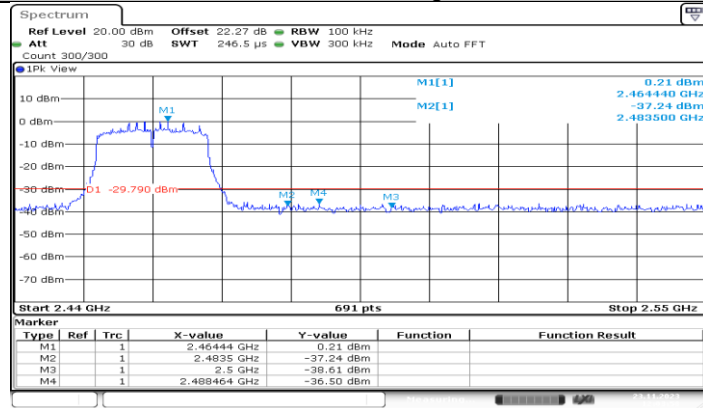
Date: 23 NOV 2023 12:10:39

### 11N20MIMO\_Ant2\_Low\_2412



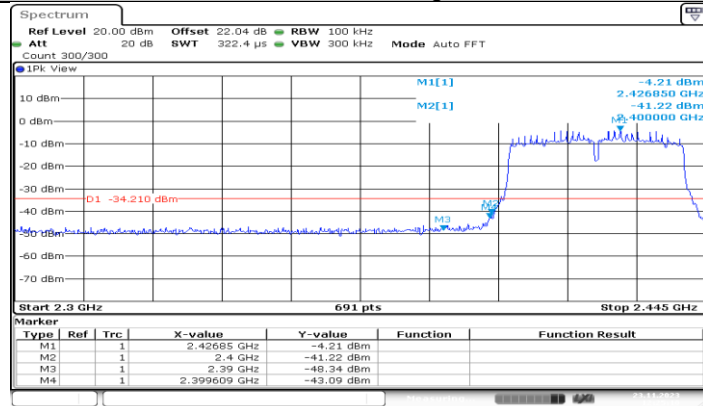
Date: 23.NOV.2023 12:03:08

### 11N20MIMO\_Ant1\_High\_2462



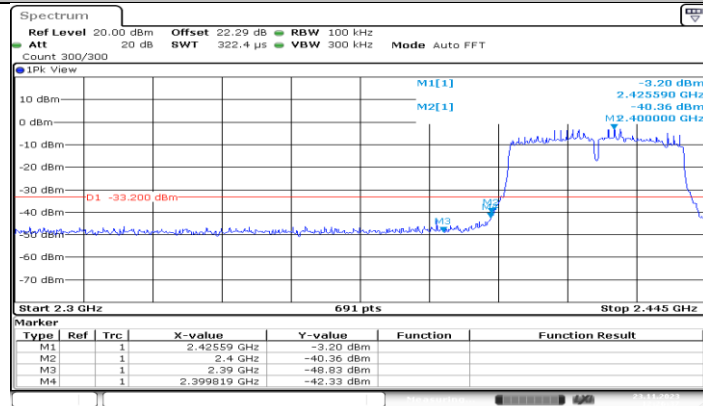
Date: 23.NOV.2023 12:03:59

### 11N20MIMO\_Ant2\_High\_2462



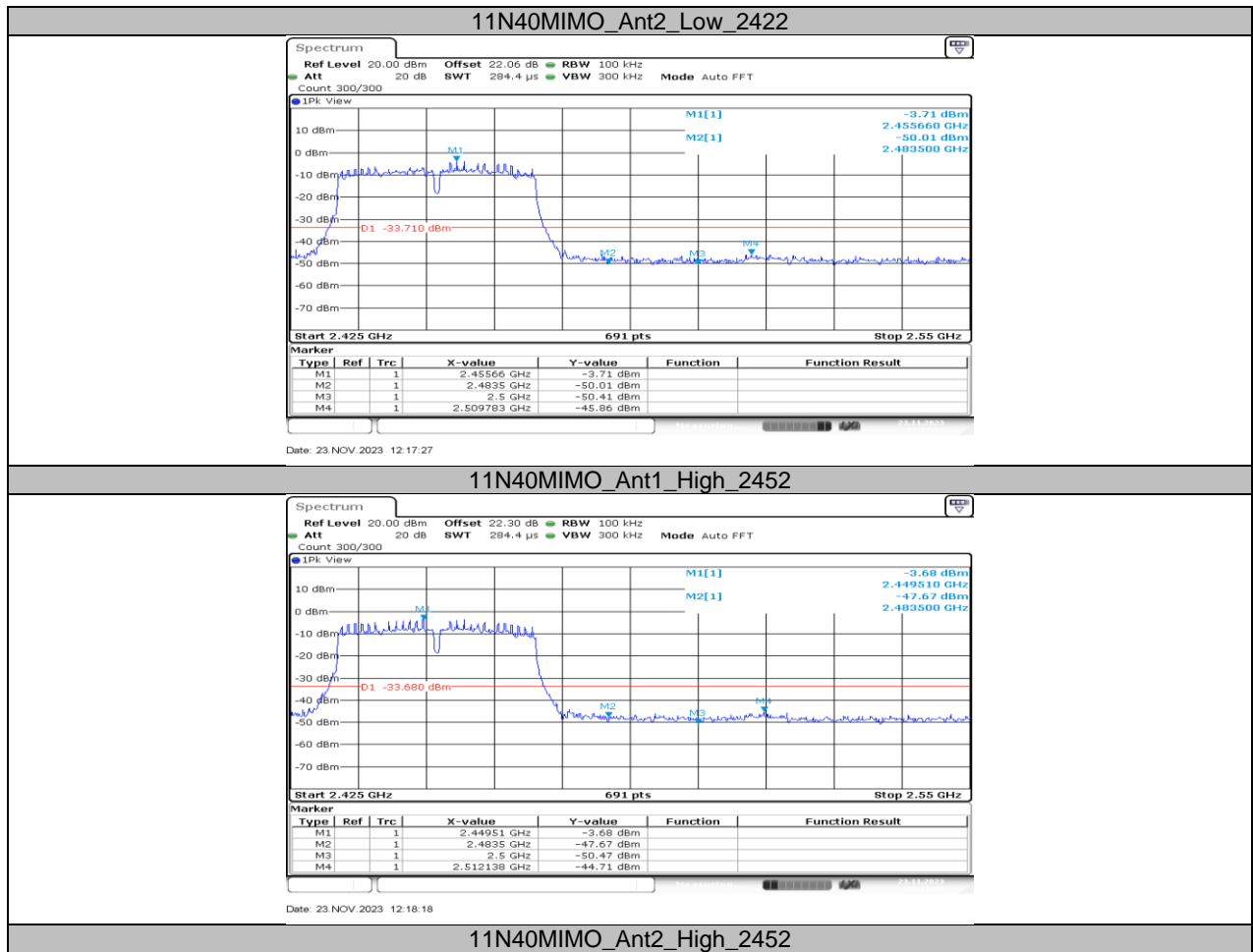
Date: 23.NOV.2023 12:25:10

### 11N40MIMO\_Ant1\_Low\_2422



Date: 23.NOV.2023 12:26:38





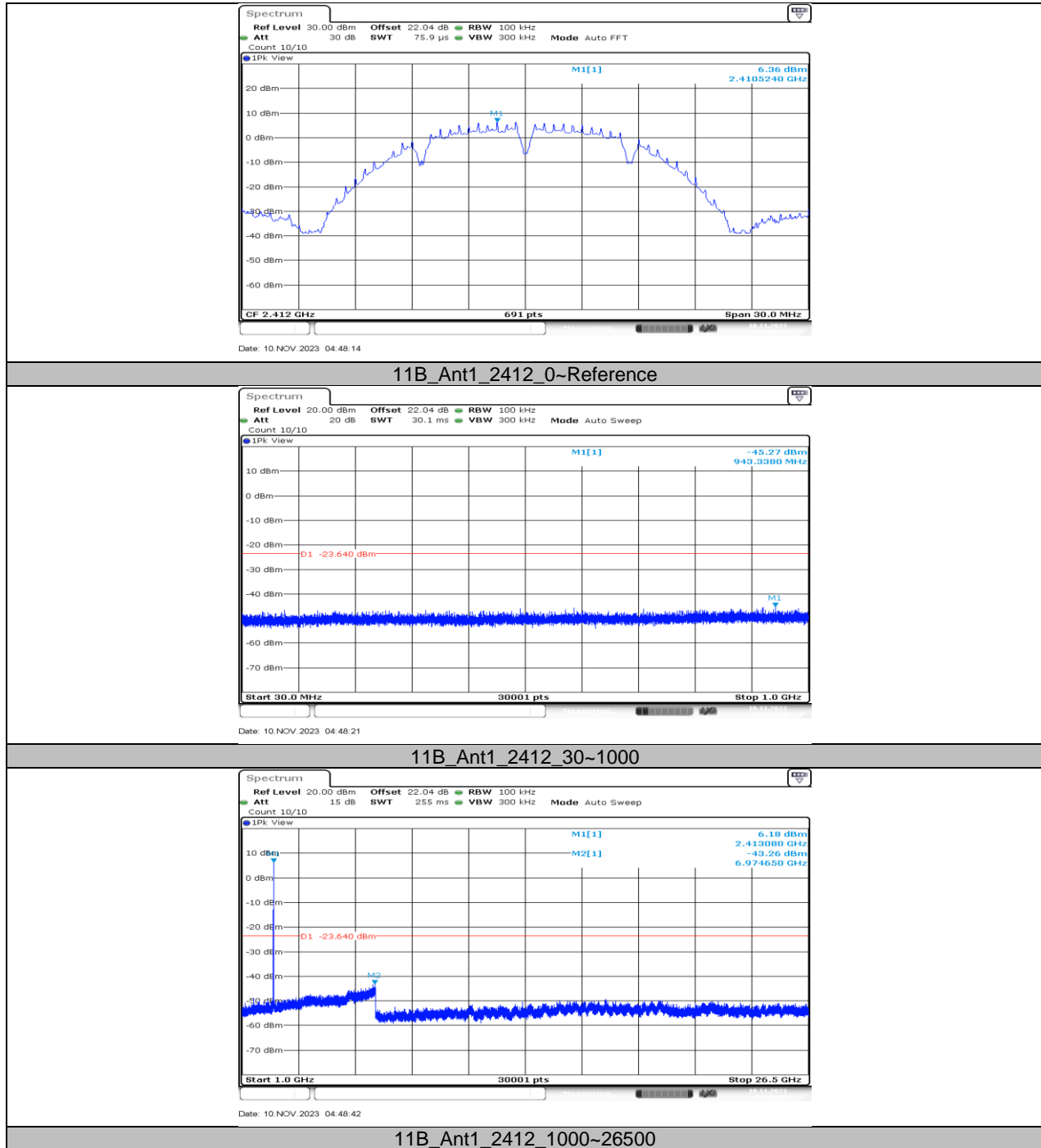
## 11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

### 11.6.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | FreqRange [Mhz] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 6.36         | ---         | PASS    |
|           |         |                | 30~1000         | -45.27       | ≤-23.64     | PASS    |
|           |         |                | 1000~26500      | -43.26       | ≤-23.64     | PASS    |
|           | Ant2    | 2412           | Reference       | 6.32         | ---         | PASS    |
|           |         |                | 30~1000         | -44          | ≤-23.68     | PASS    |
|           |         |                | 1000~26500      | -42.61       | ≤-23.68     | PASS    |
|           | Ant1    | 2437           | Reference       | 6.72         | ---         | PASS    |
|           |         |                | 30~1000         | -44.89       | ≤-23.28     | PASS    |
|           |         |                | 1000~26500      | -44.19       | ≤-23.28     | PASS    |
|           | Ant2    | 2437           | Reference       | 6.80         | ---         | PASS    |
|           |         |                | 30~1000         | -45.32       | ≤-23.2      | PASS    |
|           |         |                | 1000~26500      | -43.72       | ≤-23.2      | PASS    |
|           | Ant1    | 2462           | Reference       | 6.64         | ---         | PASS    |
|           |         |                | 30~1000         | -45.68       | ≤-23.36     | PASS    |
|           |         |                | 1000~26500      | -44.06       | ≤-23.36     | PASS    |
|           | Ant2    | 2462           | Reference       | 6.99         | ---         | PASS    |
|           |         |                | 30~1000         | -45.05       | ≤-23.01     | PASS    |
|           |         |                | 1000~26500      | -43.6        | ≤-23.01     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 1.63         | ---         | PASS    |
|           |         |                | 30~1000         | -45.44       | ≤-28.37     | PASS    |
|           |         |                | 1000~26500      | -43.46       | ≤-28.37     | PASS    |
|           | Ant2    | 2412           | Reference       | 4.05         | ---         | PASS    |
|           |         |                | 30~1000         | -44.98       | ≤-25.95     | PASS    |
|           |         |                | 1000~26500      | -43.33       | ≤-25.95     | PASS    |
|           | Ant1    | 2437           | Reference       | 3.10         | ---         | PASS    |
|           |         |                | 30~1000         | -45.12       | ≤-26.9      | PASS    |
|           |         |                | 1000~26500      | -43.86       | ≤-26.9      | PASS    |
|           | Ant2    | 2437           | Reference       | 3.64         | ---         | PASS    |
|           |         |                | 30~1000         | -45.31       | ≤-26.36     | PASS    |
|           |         |                | 1000~26500      | -42.66       | ≤-26.36     | PASS    |
|           | Ant1    | 2462           | Reference       | 3.05         | ---         | PASS    |
|           |         |                | 30~1000         | -45.36       | ≤-26.95     | PASS    |
|           |         |                | 1000~26500      | -43.22       | ≤-26.95     | PASS    |
|           | Ant2    | 2462           | Reference       | 3.82         | ---         | PASS    |
|           |         |                | 30~1000         | -43.45       | ≤-26.18     | PASS    |
|           |         |                | 1000~26500      | -43.45       | ≤-26.18     | PASS    |
| 11N20MIMO | Ant1    | 2412           | Reference       | -1.19        | ---         | PASS    |
|           |         |                | 30~1000         | -45.57       | ≤-31.19     | PASS    |
|           |         |                | 1000~26500      | -43.58       | ≤-31.19     | PASS    |
|           | Ant2    | 2412           | Reference       | 1.21         | ---         | PASS    |
|           |         |                | 30~1000         | -45.28       | ≤-28.79     | PASS    |
|           |         |                | 1000~26500      | -42.8        | ≤-28.79     | PASS    |
|           | Ant1    | 2437           | Reference       | 0.36         | ---         | PASS    |
|           |         |                | 30~1000         | -45.63       | ≤-29.64     | PASS    |
|           |         |                | 1000~26500      | -43.69       | ≤-29.64     | PASS    |
|           | Ant2    | 2437           | Reference       | 0.41         | ---         | PASS    |
|           |         |                | 30~1000         | -45.27       | ≤-29.59     | PASS    |
|           |         |                | 1000~26500      | -43.97       | ≤-29.59     | PASS    |
|           | Ant1    | 2462           | Reference       | 0.28         | ---         | PASS    |
|           |         |                | 30~1000         | -45.68       | ≤-29.72     | PASS    |
|           |         |                | 1000~26500      | -43.51       | ≤-29.72     | PASS    |
|           | Ant2    | 2462           | Reference       | -0.07        | ---         | PASS    |
|           |         |                | 30~1000         | -44.82       | ≤-30.07     | PASS    |
|           |         |                | 1000~26500      | -43.62       | ≤-30.07     | PASS    |
| 11N40MIMO | Ant1    | 2422           | Reference       | -4.34        | ---         | PASS    |
|           |         |                | 30~1000         | -45.41       | ≤-34.34     | PASS    |
|           |         |                | 1000~26500      | -44.3        | ≤-34.34     | PASS    |
|           | Ant2    | 2422           | Reference       | -2.73        | ---         | PASS    |

|  |      |      |            |        |               |      |
|--|------|------|------------|--------|---------------|------|
|  |      |      | 30~1000    | -45.44 | $\leq -32.73$ | PASS |
|  |      |      | 1000~26500 | -42.93 | $\leq -32.73$ | PASS |
|  | Ant1 | 2437 | Reference  | -4.07  | ---           | PASS |
|  |      |      | 30~1000    | -44.67 | $\leq -34.07$ | PASS |
|  |      |      | 1000~26500 | -43.77 | $\leq -34.07$ | PASS |
|  |      |      | Reference  | -3.44  | ---           | PASS |
|  | Ant2 | 2437 | 30~1000    | -45.4  | $\leq -33.44$ | PASS |
|  |      |      | 1000~26500 | -42.74 | $\leq -33.44$ | PASS |
|  |      |      | Reference  | -4.05  | ---           | PASS |
|  |      |      | 30~1000    | -44.53 | $\leq -34.05$ | PASS |
|  | Ant1 | 2452 | 1000~26500 | -43.57 | $\leq -34.05$ | PASS |
|  |      |      | Reference  | -3.58  | ---           | PASS |
|  |      |      | 30~1000    | -45.13 | $\leq -33.58$ | PASS |
|  |      |      | 1000~26500 | -43.17 | $\leq -33.58$ | PASS |

## 11.6.2. Test Graphs






Level: 22.26 dB  PRW: 100 kHz

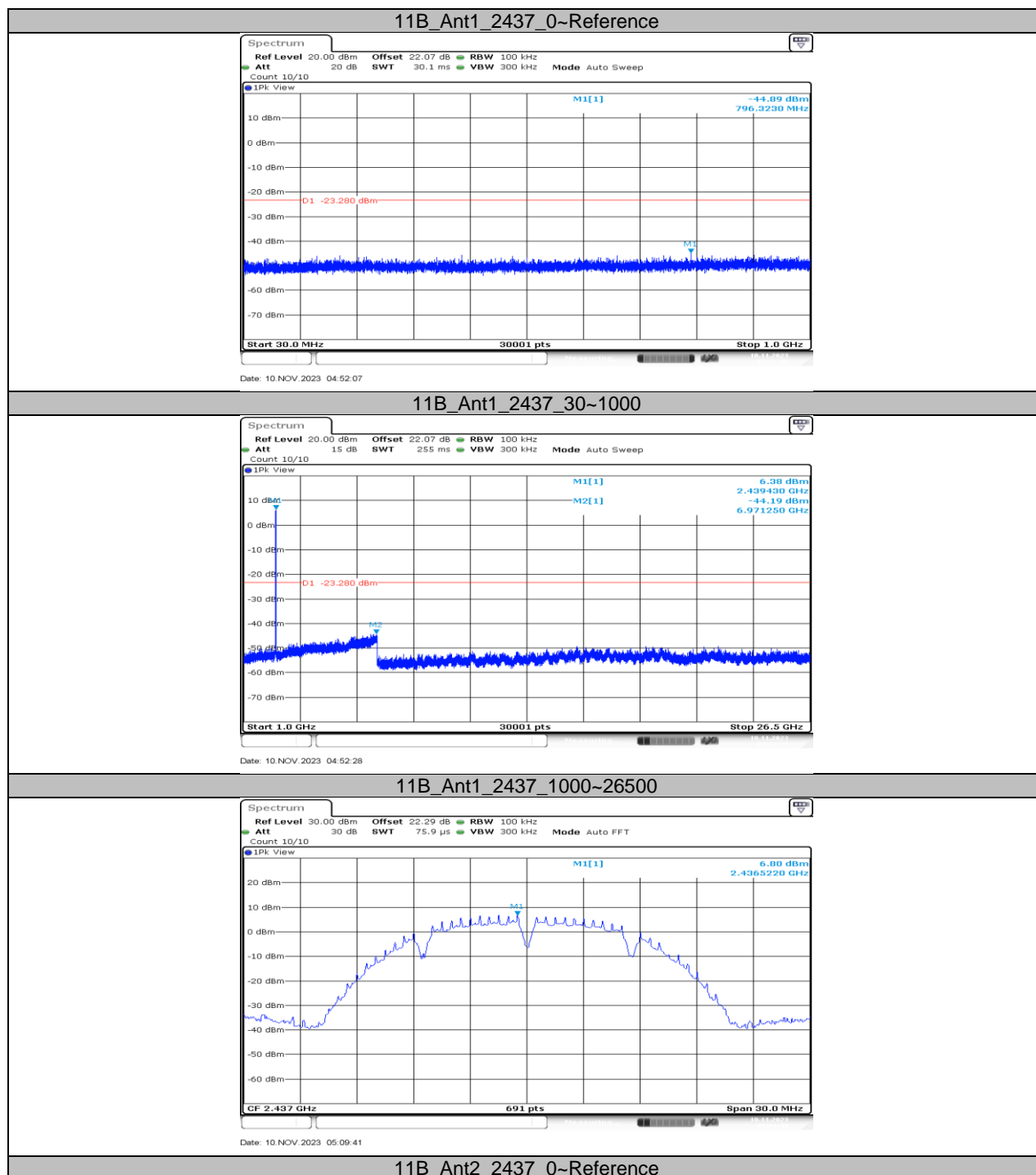


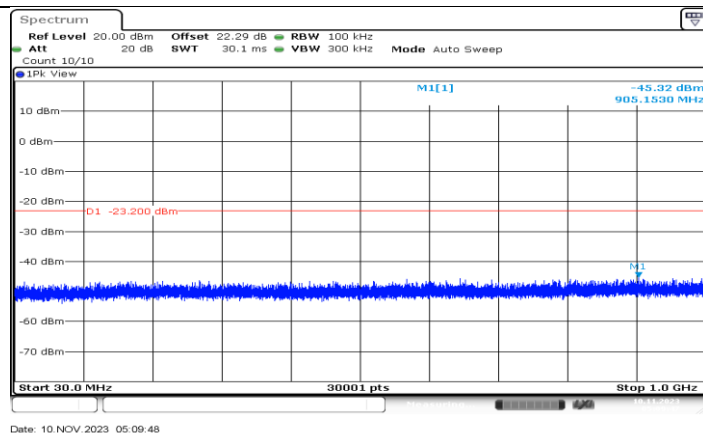
0.00.06 dB BW 100 kHz



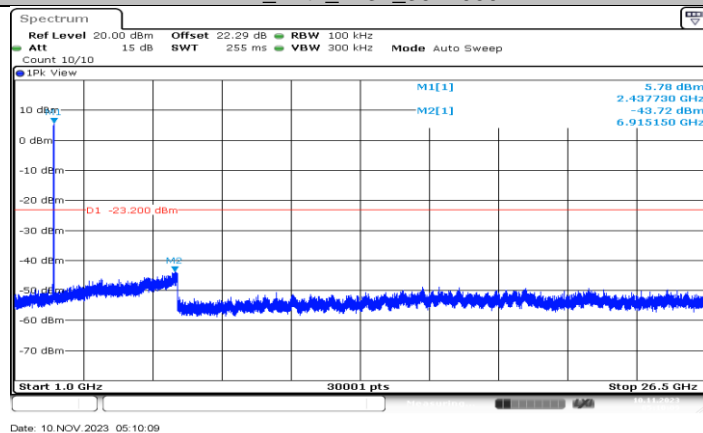
Week 02.07.2019  ORCID: 100.1010



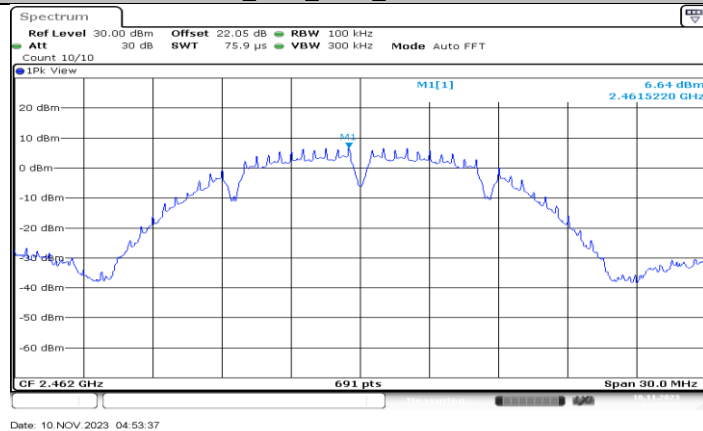




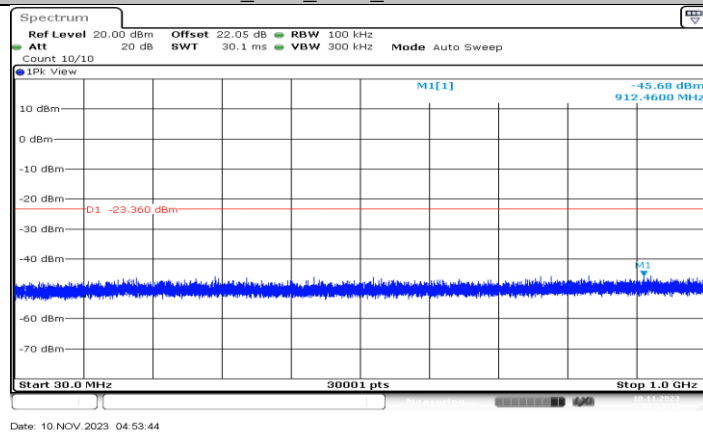
11B\_Ant2\_2437\_30~1000



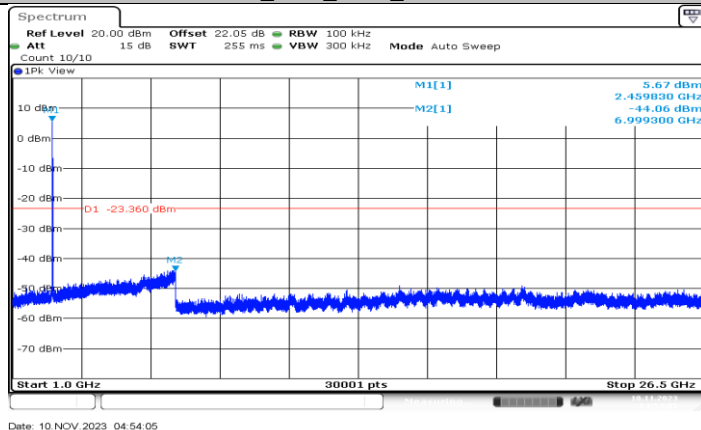
11B\_Ant2\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference

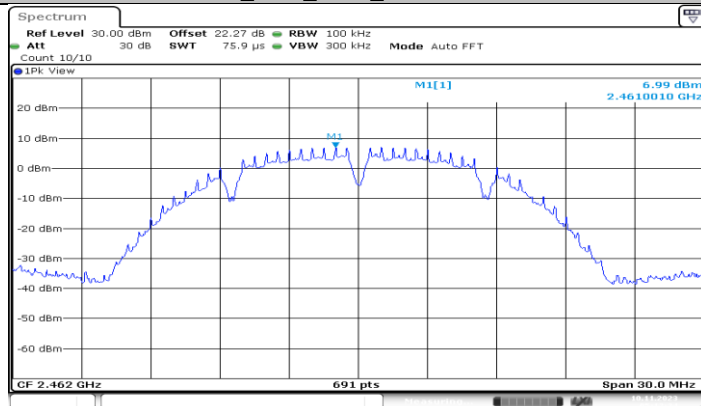


### 11B\_Ant1\_2462\_30~1000



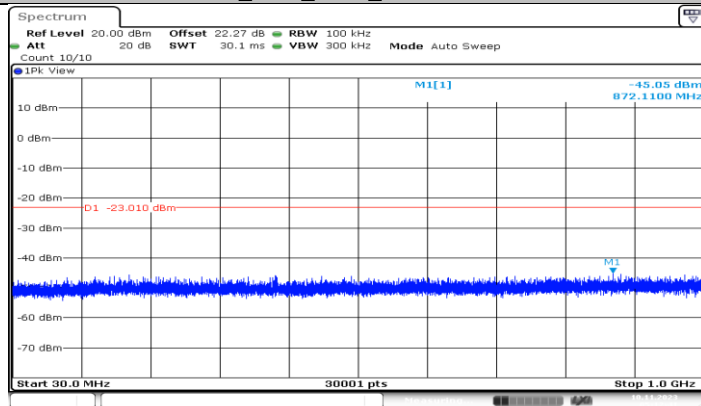
Date: 10 NOV 2023 04:54:05

### 11B\_Ant1\_2462\_1000~26500



Date: 10 NOV 2023 05:12:35

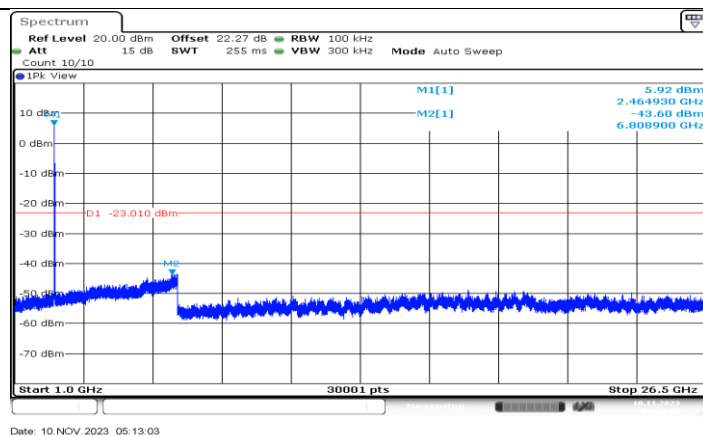
### 11B\_Ant2\_2462\_0~Reference



Date: 10 NOV 2023 05:12:41

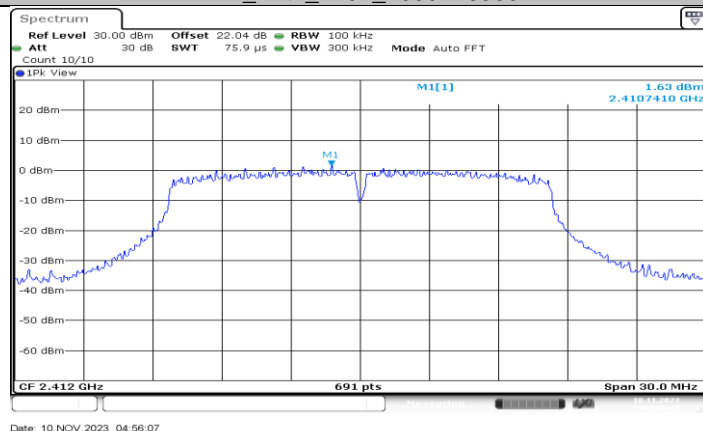
### 11B\_Ant2\_2462\_30~1000





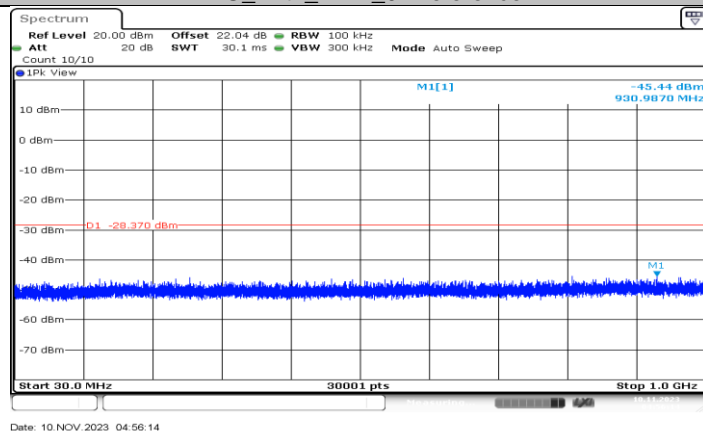
Date: 10.NOV.2023 05:13:03

11B\_Ant2\_2462\_1000~26500



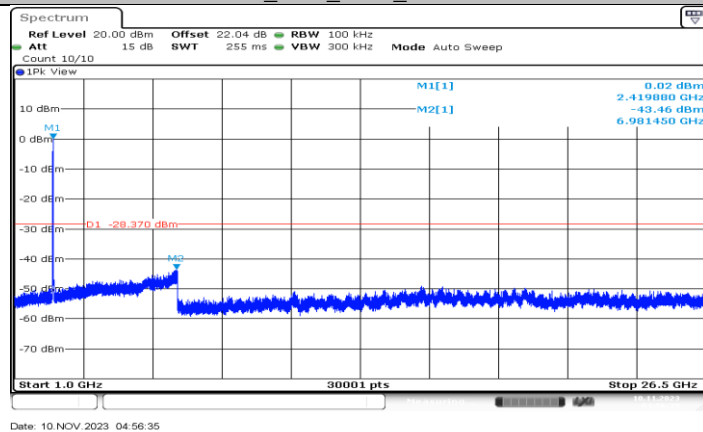
Date: 10.NOV.2023 04:56:07

11G\_Ant1\_2412\_0~Reference

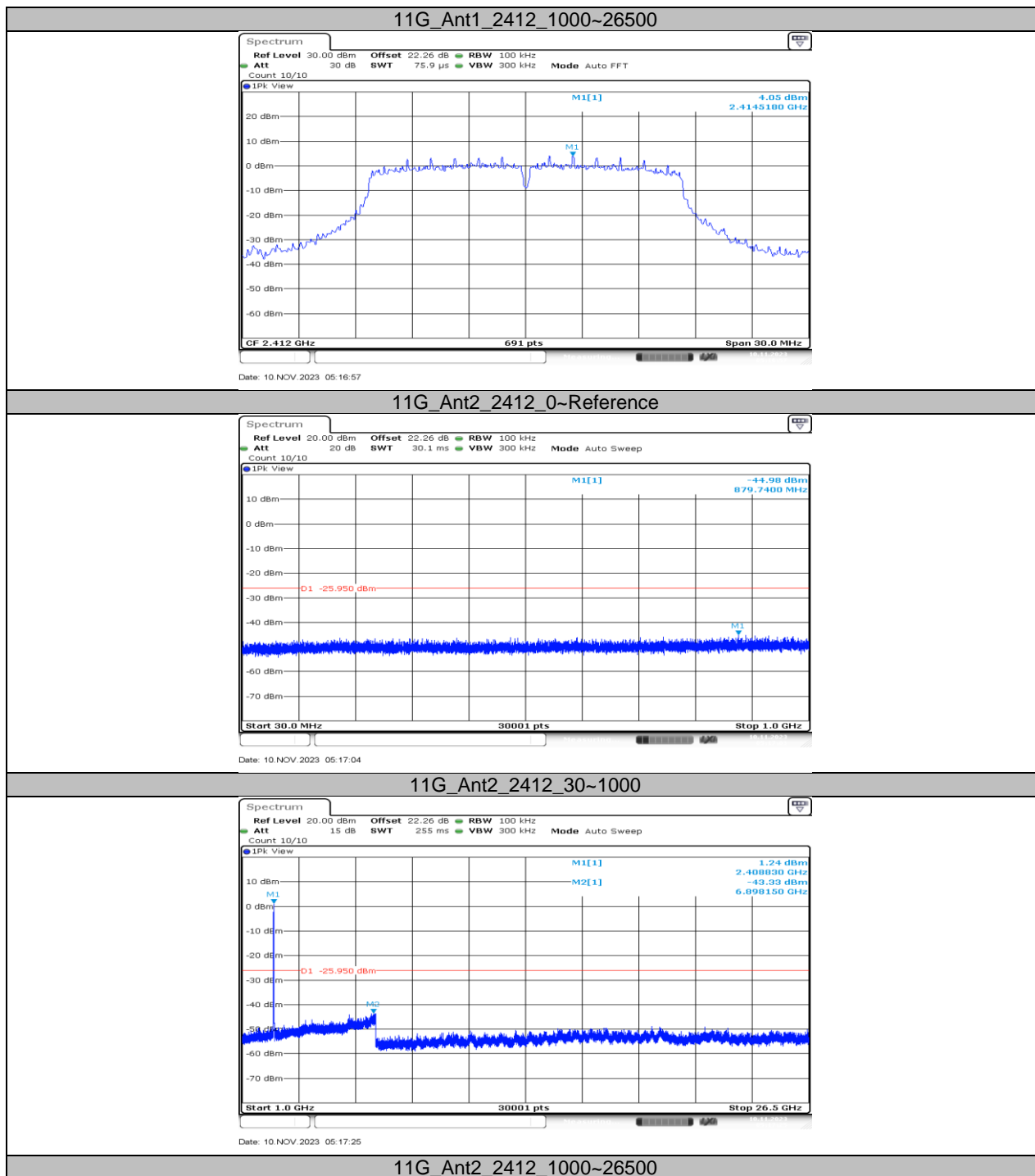


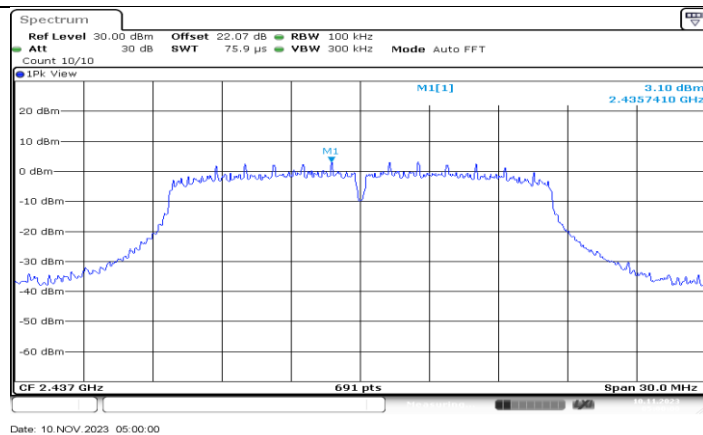
Date: 10.NOV.2023 04:56:14

11G\_Ant1\_2412\_30~1000

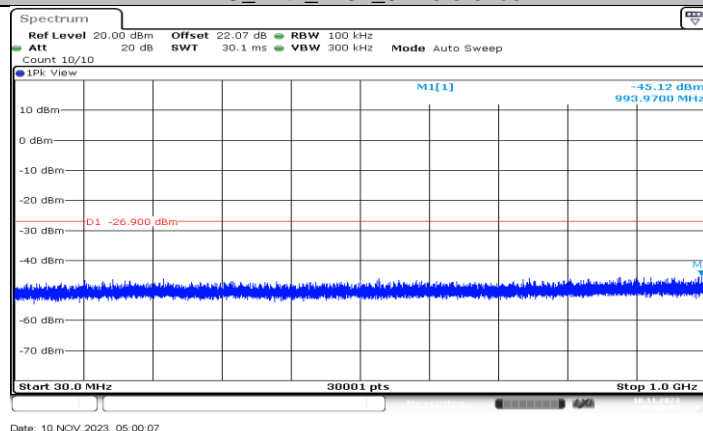


Date: 10.NOV.2023 04:56:35

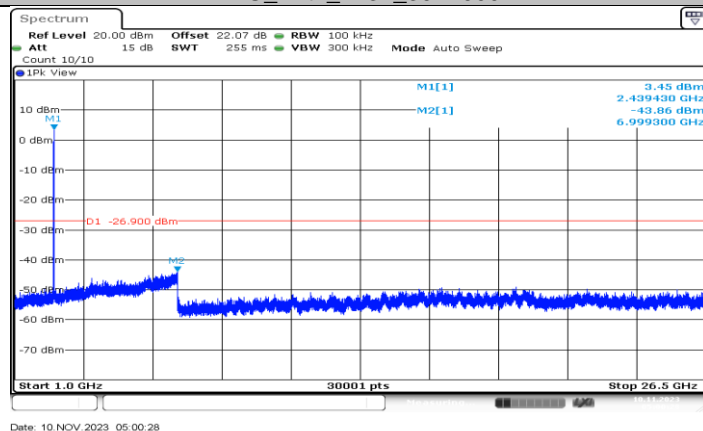




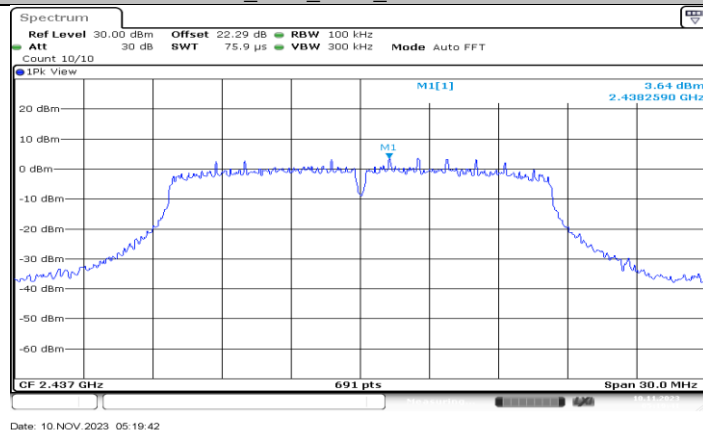
11G\_Ant1\_2437\_0~Reference

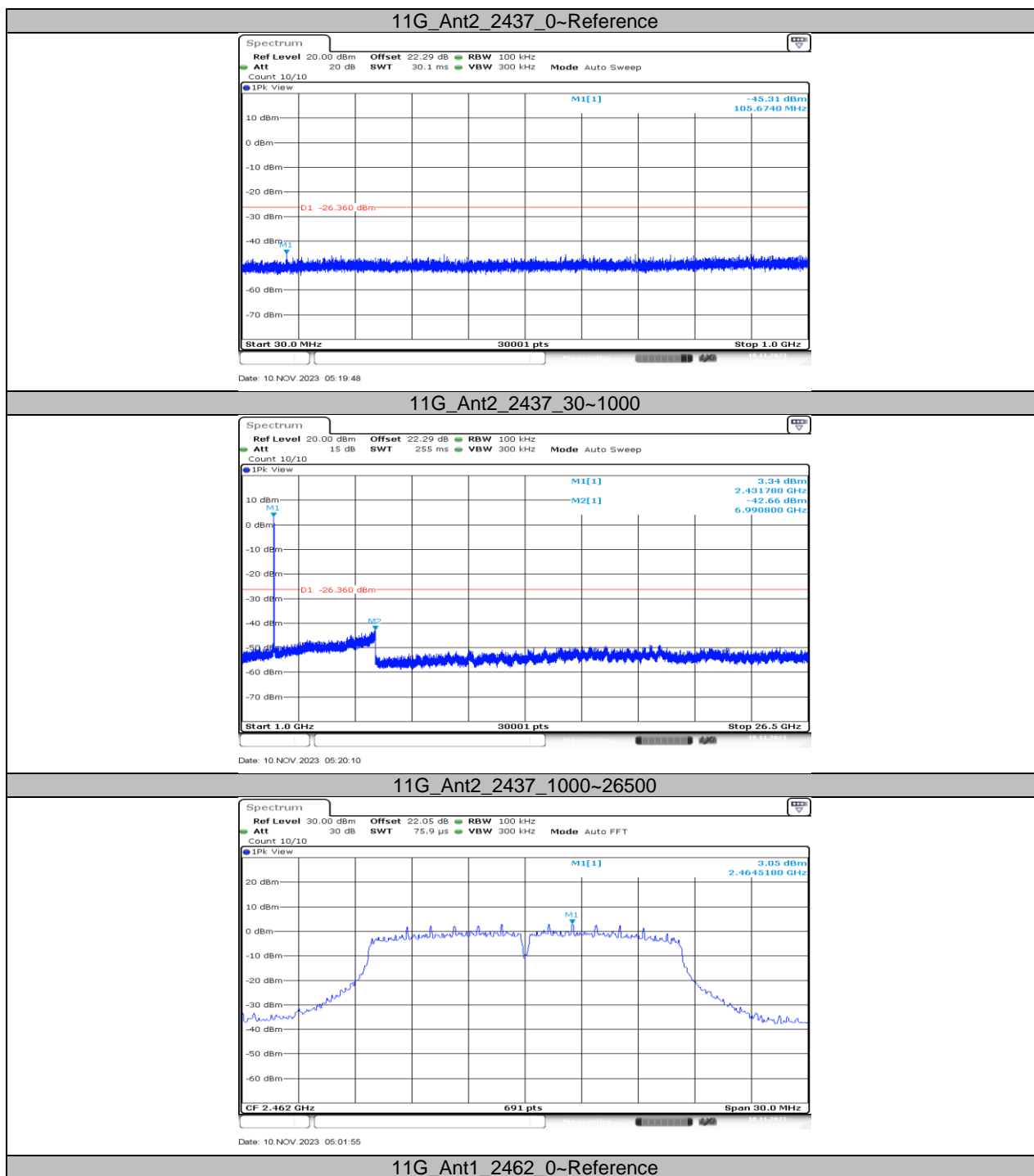


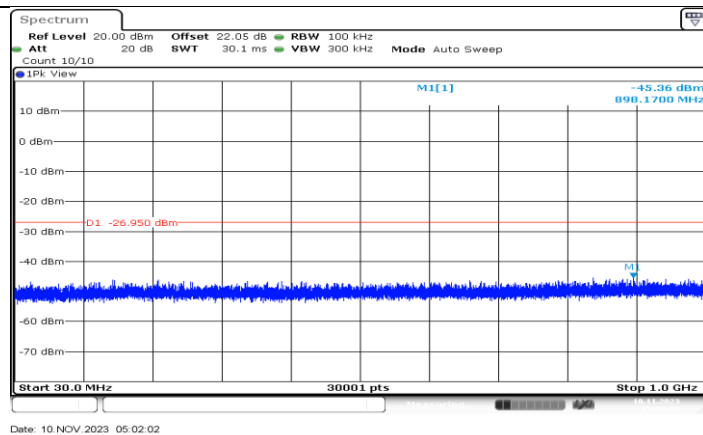
11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

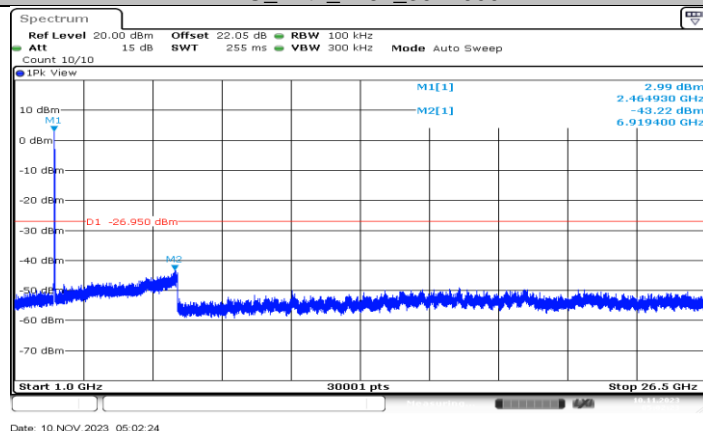






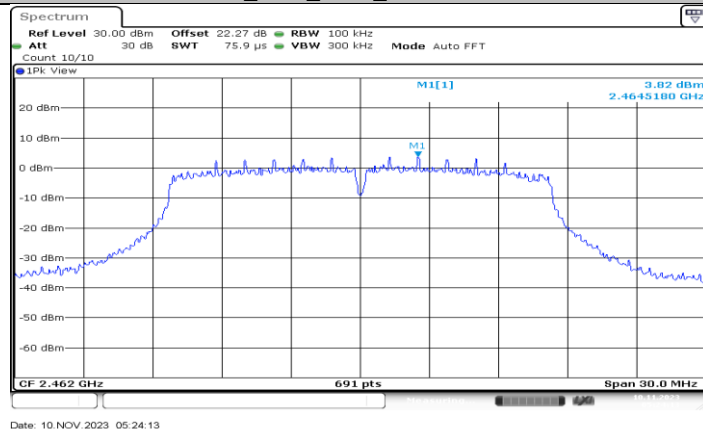
Date: 10.NOV.2023 05:02:02

### 11G\_Ant1\_2462\_30~1000



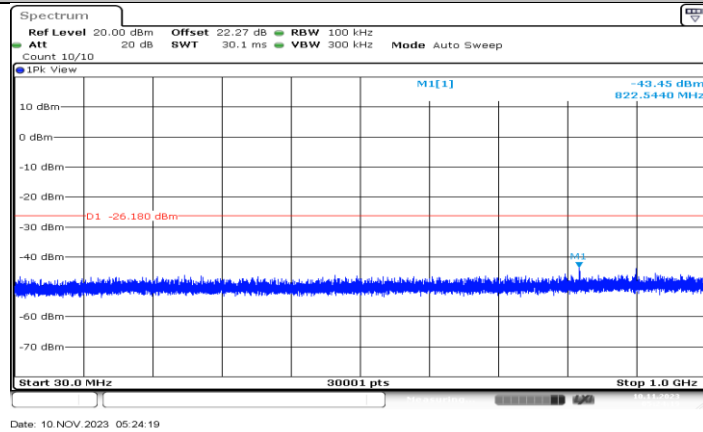
Date: 10.NOV.2023 05:02:24

### 11G\_Ant1\_2462\_1000~26500

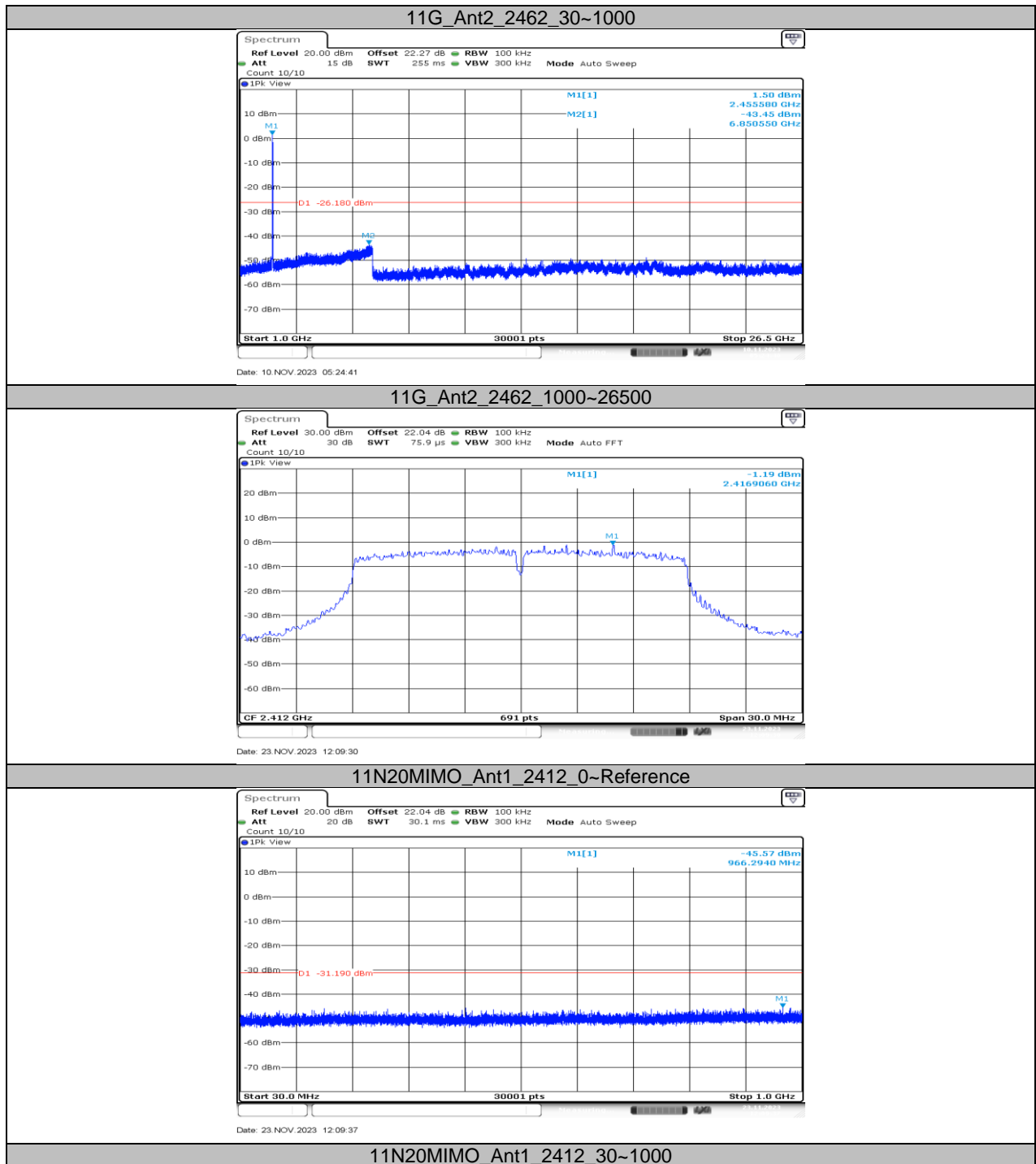


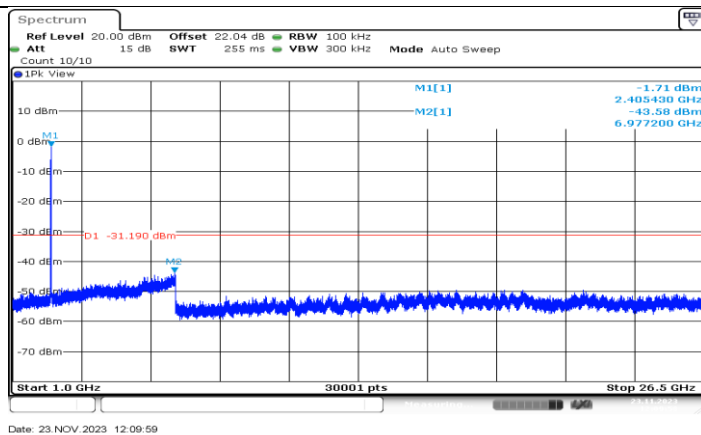
Date: 10.NOV.2023 05:24:13

### 11G\_Ant2\_2462\_0~Reference

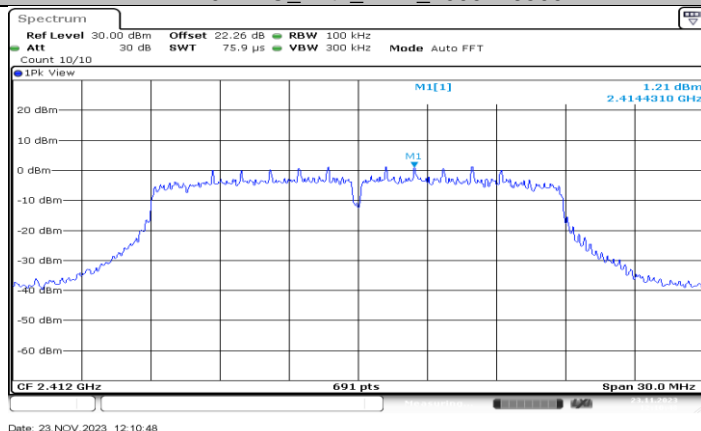


Date: 10.NOV.2023 05:24:19

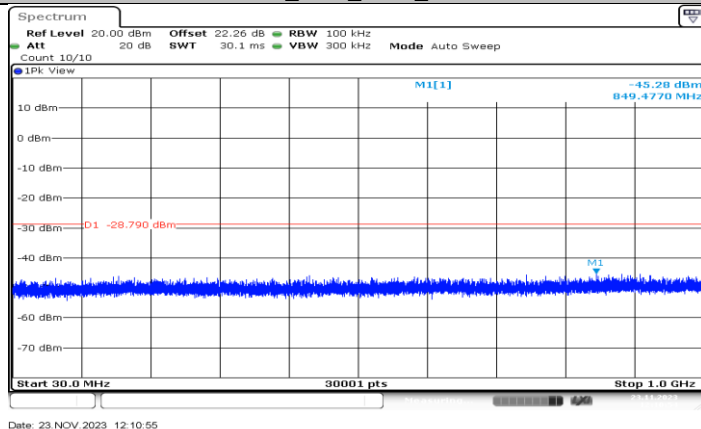




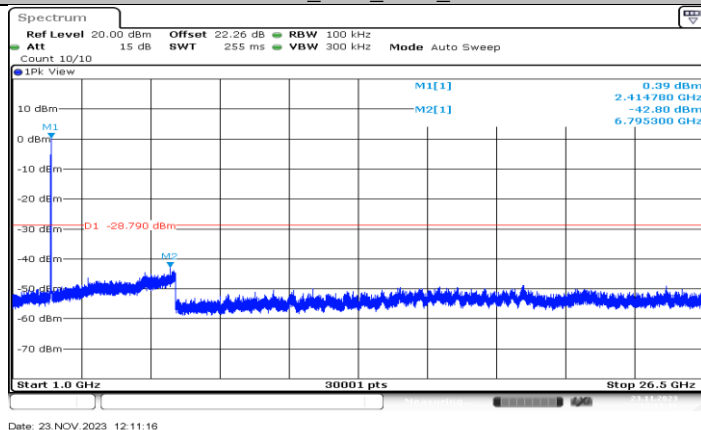
11N20MIMO\_Ant1\_2412\_1000~26500



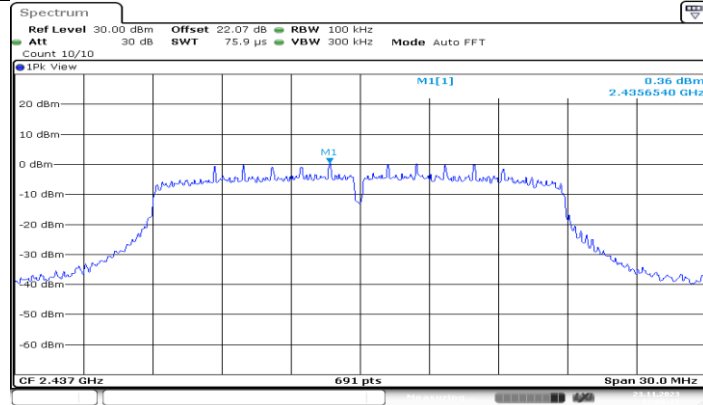
11N20MIMO\_Ant2\_2412\_0~Reference



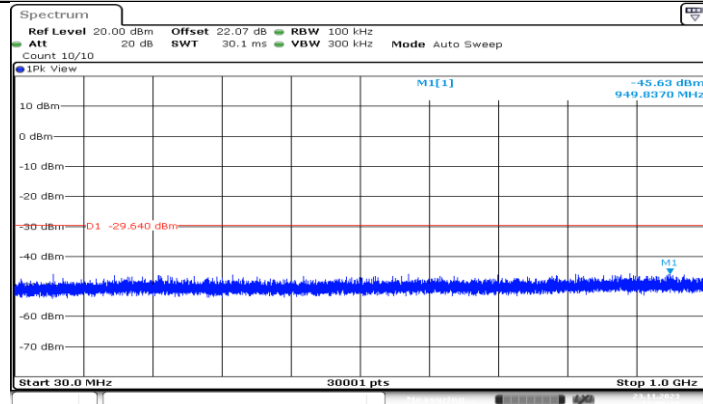
11N20MIMO\_Ant2\_2412\_30~1000



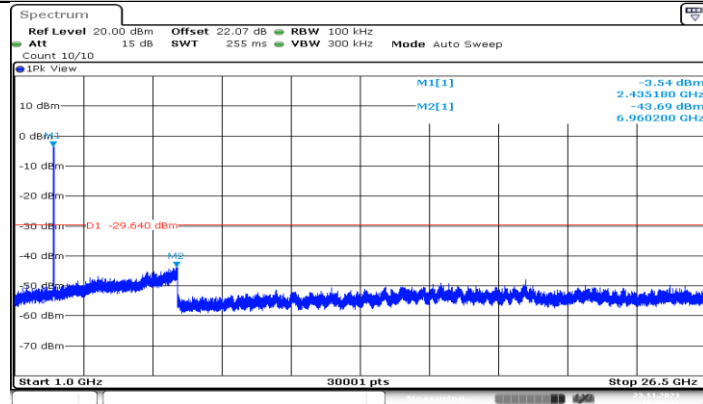
### 11N20MIMO\_Ant2\_2412\_1000~26500



### 11N20MIMO\_Ant1\_2437\_0~Reference

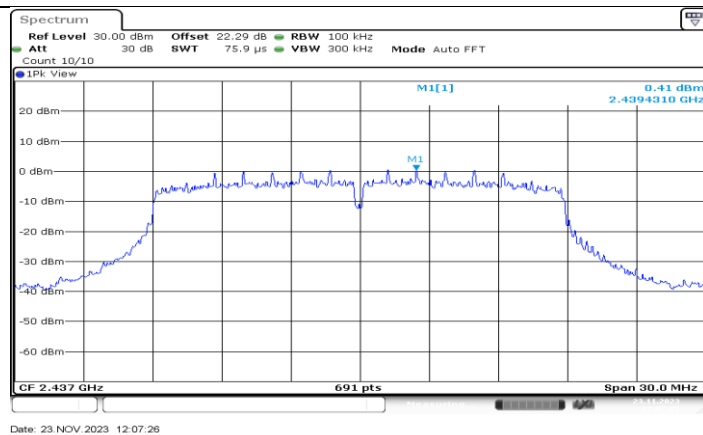


### 11N20MIMO\_Ant1\_2437\_30~1000

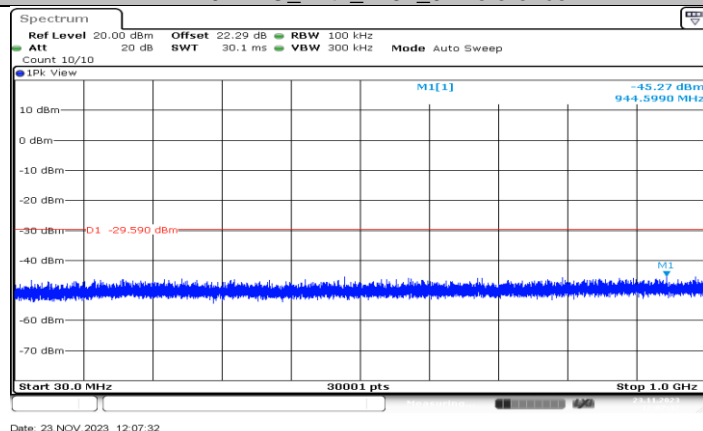


### 11N20MIMO\_Ant1\_2437\_1000~26500

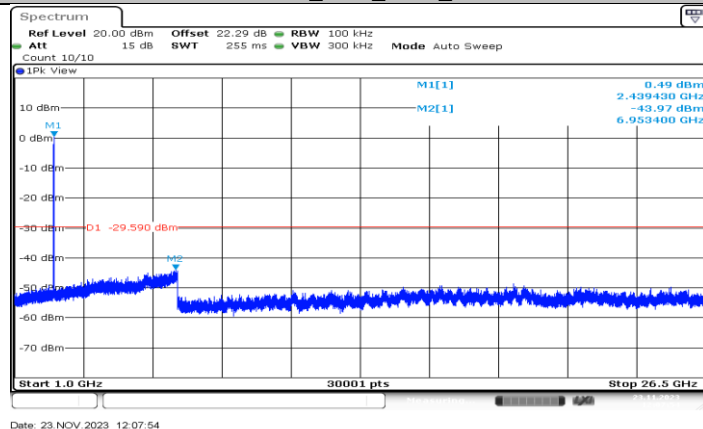




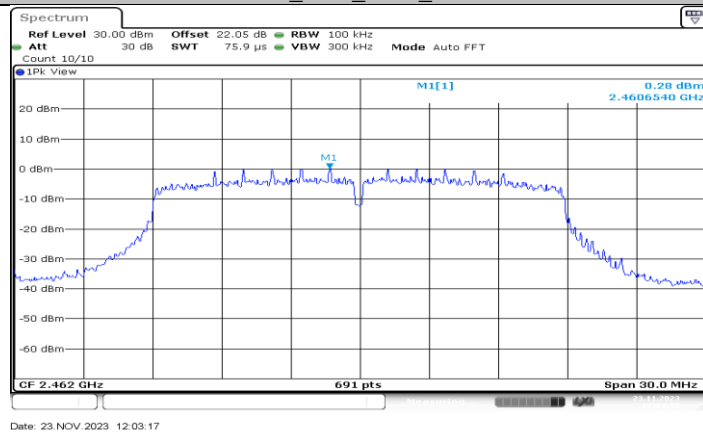
11N20MIMO\_Ant2\_2437\_0~Reference



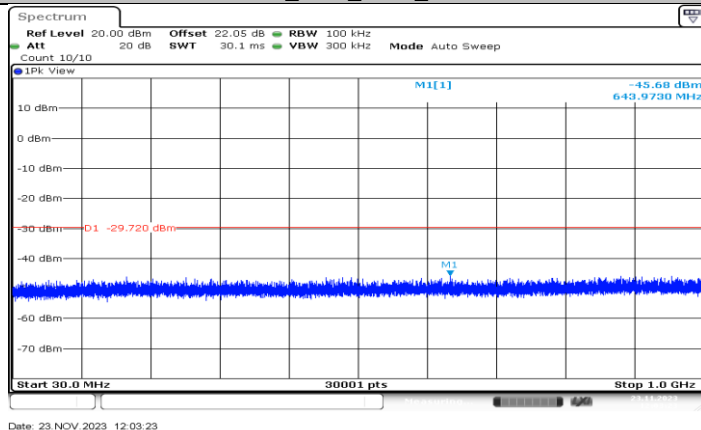
11N20MIMO\_Ant2\_2437\_30~1000



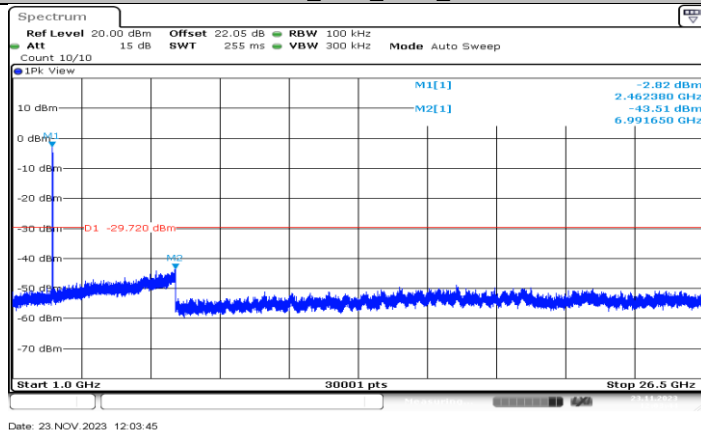
11N20MIMO\_Ant2\_2437\_1000~26500



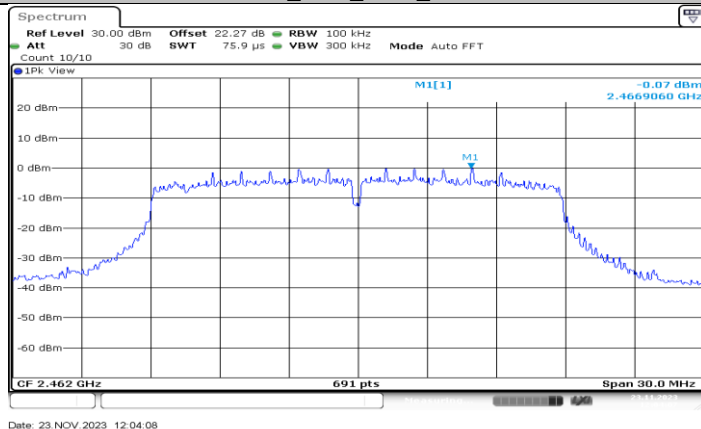
### 11N20MIMO\_Ant1\_2462\_0~Reference



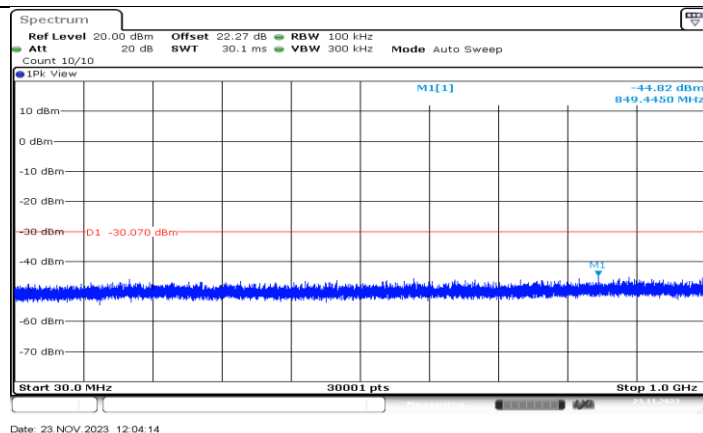
### 11N20MIMO\_Ant1\_2462\_30~1000



### 11N20MIMO\_Ant1\_2462\_1000~26500

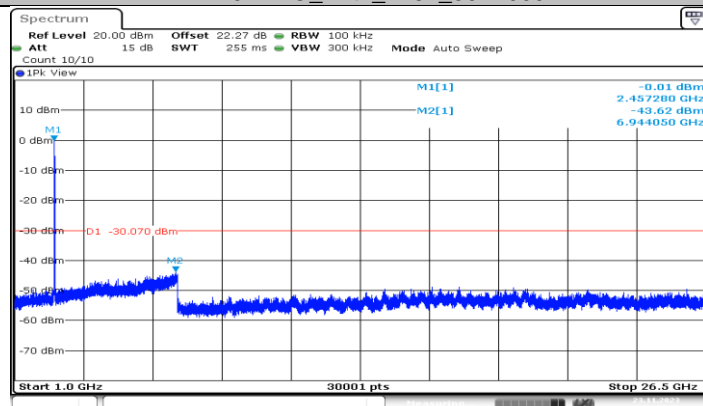


### 11N20MIMO\_Ant2\_2462\_0~Reference



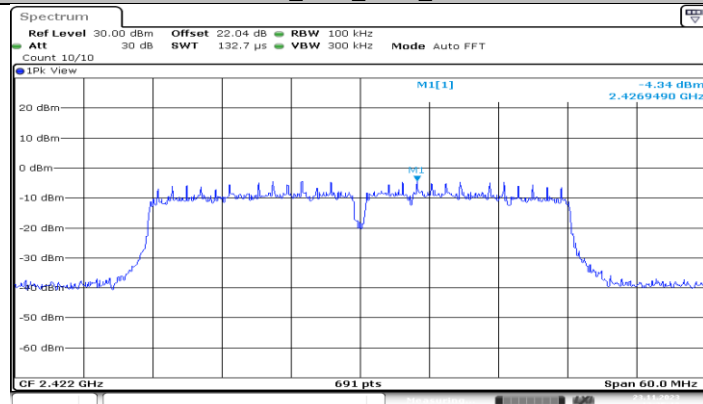
Date: 23.NOV.2023 12:04:14

### 11N20MIMO\_Ant2\_2462\_30~1000



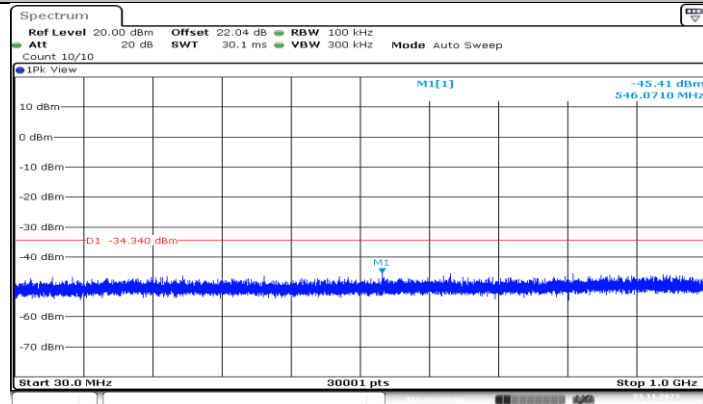
Date: 23.NOV.2023 12:04:36

### 11N20MIMO\_Ant2\_2462\_1000~26500



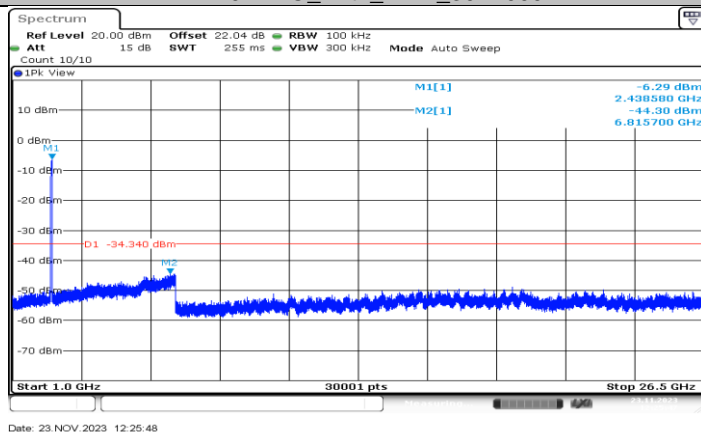
Date: 23.NOV.2023 12:25:19

### 11N40MIMO\_Ant1\_2422\_0~Reference

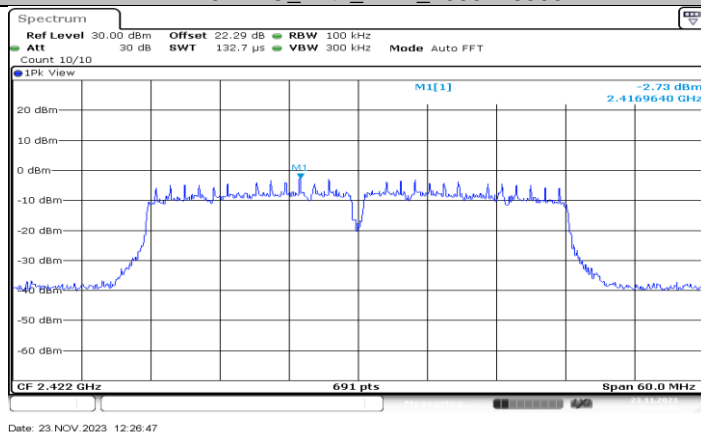


Date: 23.NOV.2023 12:25:28

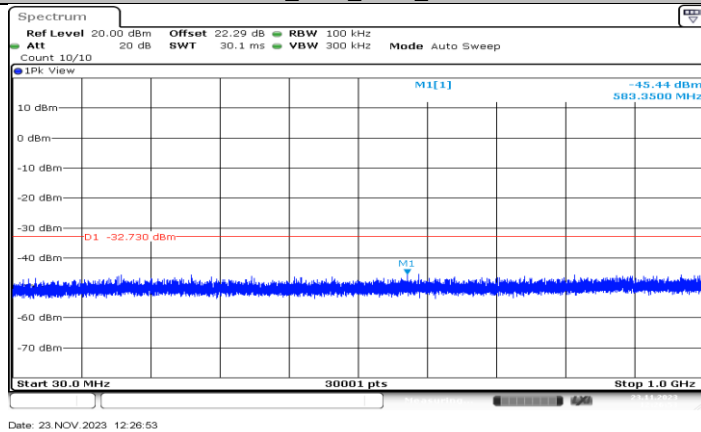
### 11N40MIMO\_Ant1\_2422\_30~1000



### 11N40MIMO\_Ant1\_2422\_1000~26500



### 11N40MIMO\_Ant2\_2422\_0~Reference



### 11N40MIMO\_Ant2\_2422\_30~1000