

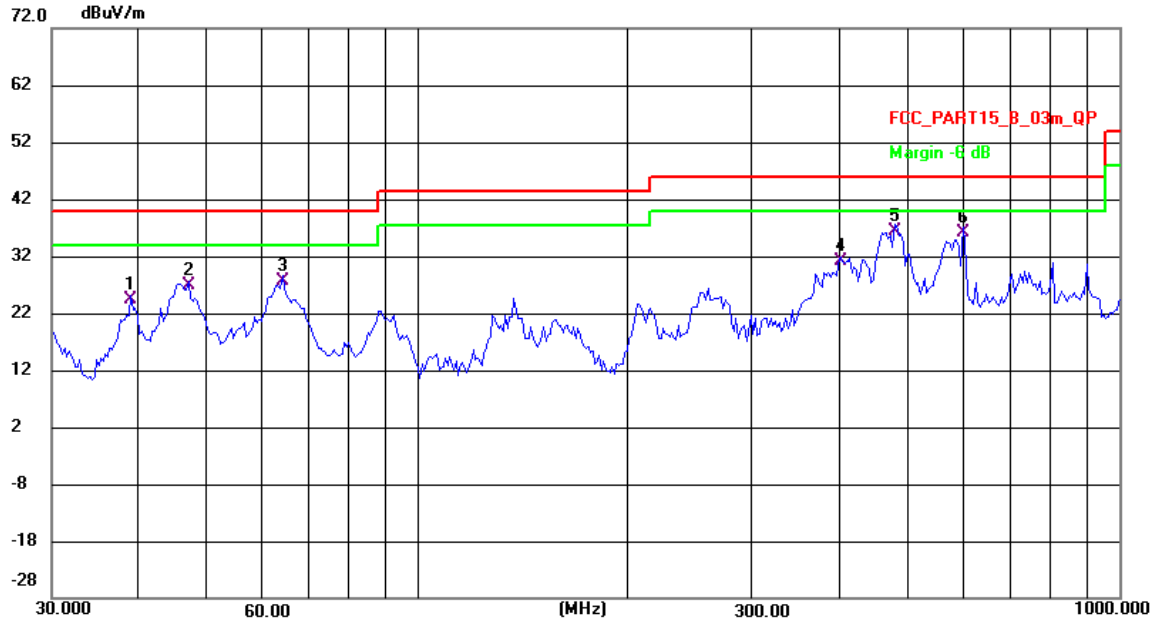
## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

## APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

|           |                      |              |          |
|-----------|----------------------|--------------|----------|
| Test Mode | TX G Mode Channel 01 | Polarization | Vertical |
|-----------|----------------------|--------------|----------|

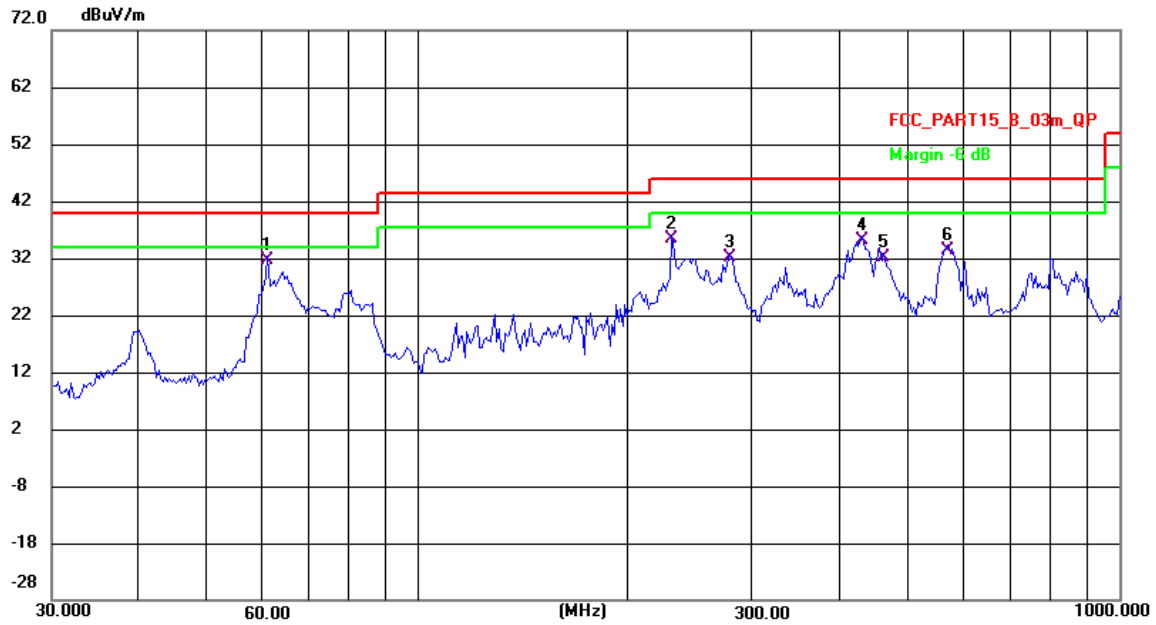


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 38.9081         | 46.58          | -22.26        | 24.32          | 40.00          | -15.68      | QP       | 100         | 97             | P   |        |
| 2   | 47.0371         | 48.94          | -22.15        | 26.79          | 40.00          | -13.21      | QP       | 191         | 40             | P   |        |
| 3   | 64.0800         | 50.88          | -23.15        | 27.73          | 40.00          | -12.27      | QP       | 163         | 105            | P   |        |
| 4   | 401.1050        | 50.27          | -19.19        | 31.08          | 46.00          | -14.92      | QP       | 200         | 348            | P   |        |
| 5 * | 478.1394        | 53.70          | -17.21        | 36.49          | 46.00          | -9.51       | QP       | 100         | 169            | P   |        |
| 6   | 598.7067        | 50.05          | -13.82        | 36.23          | 46.00          | -9.77       | QP       | 208         | 202            | P   |        |

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

|           |                      |              |            |
|-----------|----------------------|--------------|------------|
| Test Mode | TX G Mode Channel 01 | Polarization | Horizontal |
|-----------|----------------------|--------------|------------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 61.0041         | 54.27          | -22.68        | 31.59          | 40.00          | -8.41       | QP       | 199         | 349            | P   |        |
| 2   | 230.2295        | 60.37          | -25.00        | 35.37          | 46.00          | -10.63      | QP       | 200         | 117            | P   |        |
| 3   | 278.3308        | 54.85          | -22.64        | 32.21          | 46.00          | -13.79      | QP       | 173         | 355            | P   |        |
| 4   | 430.3053        | 53.42          | -18.24        | 35.18          | 46.00          | -10.82      | QP       | 100         | 269            | P   |        |
| 5   | 461.6313        | 49.68          | -17.54        | 32.14          | 46.00          | -13.86      | QP       | 126         | 276            | P   |        |
| 6   | 569.9688        | 48.22          | -14.75        | 33.47          | 46.00          | -12.53      | QP       | 208         | 306            | P   |        |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIXD -RADIATED EMISSION- ABOVE 1000MHZ

Test Result of Radiated Spurious at Band edges.

Note: All test plots below include both horizontal and vertical

| Test Results    |          |          |                  |                | PASS               |                |        |        |
|-----------------|----------|----------|------------------|----------------|--------------------|----------------|--------|--------|
| Frequency Range |          |          |                  |                | 2310MHz~2410MHz    |                |        |        |
| Test Mode       |          |          |                  |                | TX B Mode 2412 MHz |                |        |        |
| N o.            | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)    | Limit (dBuV/m) | Margin | Remark |
| 1               | 2390     | H        | 70.93            | -21.47         | 49.46              | 74.00          | -24.54 | Peak   |
| 2               | 2390     | H        | --               | -21.47         | --                 | 54.00          | --     | Avg    |
| 3               | 2400     | H        | 72.93            | -26.12         | 46.81              | 74.00          | -27.19 | Peak   |
| 4               | 2400     | H        | --               | -26.12         | --                 | 54.00          | --     | Avg    |
| 1               | 2390     | V        | 73.52            | -21.47         | 52.05              | 74.00          | -21.95 | Peak   |
| 2               | 2390     | V        | --               | -21.47         | --                 | 54.00          | --     | Avg    |
| 3               | 2400     | V        | 72.85            | -26.12         | 46.73              | 74.00          | -27.27 | Peak   |
| 4               | 2400     | V        | --               | -26.12         | --                 | 54.00          | --     | Avg    |
| Test Results    |          |          |                  |                | PASS               |                |        |        |
| Frequency Range |          |          |                  |                | 2450MHz~2550MHz    |                |        |        |
| Test Mode       |          |          |                  |                | TX B Mode 2462 MHz |                |        |        |
| 1               | 2483.5   | H        | 73.69            | -25.29         | 48.40              | 74.00          | -25.60 | Peak   |
| 2               | 2483.5   | H        | --               | -25.29         | --                 | 54.00          | --     | Avg    |
| 1               | 2483.5   | V        | 72.93            | -25.29         | 47.64              | 74.00          | -26.36 | Peak   |
| 2               | 2483.5   | V        | --               | -25.29         | --                 | 54.00          | --     | Avg    |

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.

2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.

Result=Reading + Correct Factor.

Margin= Result-Limit.

3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS               |                |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|--------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2310MHz~2410MHz    |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX G Mode 2412 MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)    | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | 73.59            | -21.47         | 52.12              | 74.00          | -21.88 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | --               | -21.47         | --                 | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | 72.93            | -26.12         | 46.81              | 74.00          | -27.19 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | --               | -26.12         | --                 | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                    |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | 74.56            | -21.47         | 53.09              | 74.00          | -20.91 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | --               | -21.47         | --                 | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | 73.58            | -26.12         | 47.46              | 74.00          | -23.91 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | --               | -26.12         | --                 | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                    |                |        |        |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS               |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2450MHz~2550MHz    |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX G Mode 2462 MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | 75.89            | -25.29         | 50.60              | 74.00          | -23.40 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | --               | -25.29         | --                 | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                    |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | 74.86            | -25.29         | 49.57              | 74.00          | -24.43 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | --               | -25.29         | --                 | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                    |                |        |        |
| <p>Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor.<br/>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |          |                  |                |                    |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS                     |                |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|--------------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2310MHz~2410MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX N(HT20) Mode 2412 MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)          | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | 75.85            | -21.47         | 54.38                    | 74.00          | -19.62 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | 76.05            | -26.12         | 49.93                    | 74.00          | -24.07 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | 74.86            | -21.47         | 53.39                    | 74.00          | -20.61 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | 73.94            | -26.12         | 47.82                    | 74.00          | -26.18 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS                     |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2450MHz~2550MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX N(HT20) Mode 2462 MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | 75.84            | -25.29         | 50.55                    | 74.00          | -23.45 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | 72.64            | -25.29         | 47.35                    | 74.00          | -26.65 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| <p>Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor.<br/>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |          |                  |                |                          |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS                     |                |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|--------------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2310MHz~2410MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX N(HT40) Mode 2422 MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)          | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | 70.85            | -21.47         | 49.38                    | 74.00          | -24.62 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | 69.89            | -26.12         | 43.77                    | 74.00          | -30.23 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | 73.56            | -21.47         | 52.09                    | 74.00          | -21.91 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | 72.31            | -26.12         | 46.19                    | 74.00          | -27.81 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS                     |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2450MHz~2550MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX N(HT40) Mode 2452 MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | 78.36            | -25.29         | 53.07                    | 74.00          | -20.93 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | 79.31            | -25.29         | 54.02                    | 74.00          | -19.98 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                          |                |        |        |
| <p>Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor.<br/>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |          |                  |                |                          |                |        |        |

ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.

Modulation Type:802.11b

Channel 1 / 2412 MHz

| Frequency | Ant.Pol.<br>H/V | Peak reading<br>(dBuV) | AV reading<br>(dBuV) | Correction Factor | Emission Level   |                | Peak Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
|           |                 |                        |                      |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |                        |                      |                |
| 4824.00   | H               | 58.63                  | 51.3                 | -1.88             | 56.75            | 49.42          | 74                     | 54                   | -17.25         |
| 7236.00   | H               | 42.58                  | ---                  | 7.8               | 50.38            | ---            | 74                     | 54                   | -23.62         |
| ---       | H               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |
| 4824.00   | V               | 55.12                  | ---                  | -1.88             | 53.24            | ---            | 74                     | 54                   | -20.76         |
| 7236.00   | V               | 42.52                  | ---                  | 7.8               | 50.32            | ---            | 74                     | 54                   | -23.68         |
| ---       | V               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |

Channel 6 / 2437 MHz

| Frequency | Ant.Pol.<br>H/V | Peak reading<br>(dBuV) | AV reading<br>(dBuV) | Correction Factor | Emission Level   |                | Peak Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
|           |                 |                        |                      |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |                        |                      |                |
| 4874.00   | H               | 57.25                  | 52.31                | -1.59             | 55.66            | 50.72          | 74                     | 54                   | -18.34         |
| 7311.00   | H               | 43.05                  | ---                  | 8.1               | 51.15            | ---            | 74                     | 54                   | -22.85         |
| ---       | H               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |
| 4874.00   | V               | 55.95                  | ---                  | -1.59             | 54.36            | ---            | 74                     | 54                   | -19.64         |
| 7311.00   | V               | 42.58                  | ---                  | 8.1               | 50.68            | ---            | 74                     | 54                   | -23.32         |
| ---       | V               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |

Channel 11 / 2462 MHz

| Frequency | Ant.Pol.<br>H/V | Peak reading<br>(dBuV) | AV reading<br>(dBuV) | Correction Factor | Emission Level   |                | Peak Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
|           |                 |                        |                      |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |                        |                      |                |
| 4924.00   | H               | 58.63                  | 52                   | -1.3              | 57.33            | 50.7           | 74                     | 54                   | -16.67         |
| 7386.00   | H               | 42.05                  | ---                  | 9                 | 51.05            | ---            | 74                     | 54                   | -22.95         |
| ---       | H               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |
| 4924.00   | V               | 54.85                  | ---                  | -1.3              | 53.55            | ---            | 74                     | 54                   | -20.45         |
| 7386.00   | V               | 42.63                  | ---                  | 9                 | 51.63            | ---            | 74                     | 54                   | -22.37         |
| ---       | V               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |

Notes:

- 1). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 2). Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3). Worst case data at 1Mbps at IEEE 802.11b.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

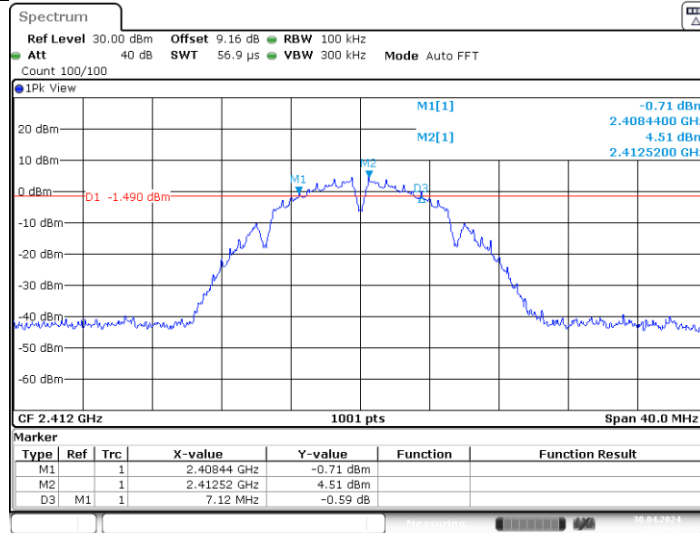
## APPENDIXE - BANDWIDTH

### 1. DTS Bandwidth

| TestMode  | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|----------------|--------------|---------|---------|------------|---------|
| 11B       | 2412           | 7.12         | 2408.44 | 2415.56 | 0.5        | PASS    |
|           | 2437           | 7.60         | 2432.96 | 2440.56 | 0.5        | PASS    |
|           | 2462           | 9.08         | 2457.44 | 2466.52 | 0.5        | PASS    |
| 11G       | 2412           | 15.08        | 2404.44 | 2419.52 | 0.5        | PASS    |
|           | 2437           | 16.32        | 2428.84 | 2445.16 | 0.5        | PASS    |
|           | 2462           | 15.08        | 2454.44 | 2469.52 | 0.5        | PASS    |
| 11N20SISO | 2412           | 15.08        | 2404.48 | 2419.56 | 0.5        | PASS    |
|           | 2437           | 17.56        | 2428.20 | 2445.76 | 0.5        | PASS    |
|           | 2462           | 17.60        | 2453.20 | 2470.80 | 0.5        | PASS    |
| 11N40SISO | 2422           | 30.80        | 2409.12 | 2439.92 | 0.5        | PASS    |
|           | 2437           | 35.68        | 2418.84 | 2454.52 | 0.5        | PASS    |
|           | 2452           | 25.04        | 2444.48 | 2469.52 | 0.5        | PASS    |

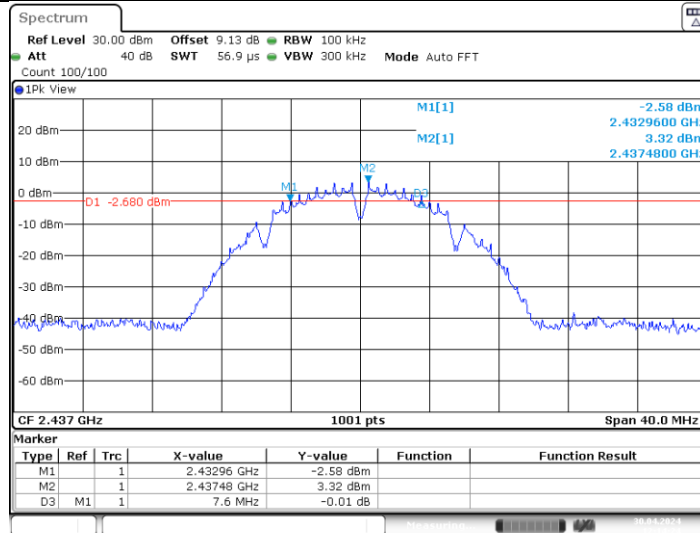
# Test Graphs

## 11B\_Ant1\_2412



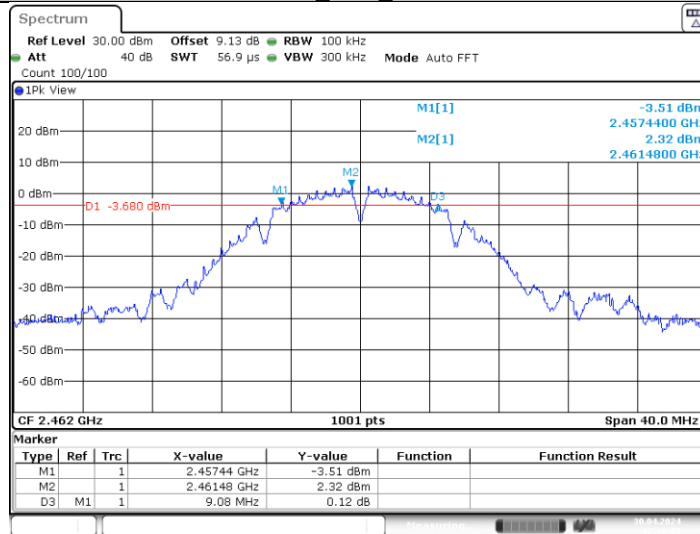
Date: 30.APR.2024 12:10:17

## 11B\_Ant1\_2437



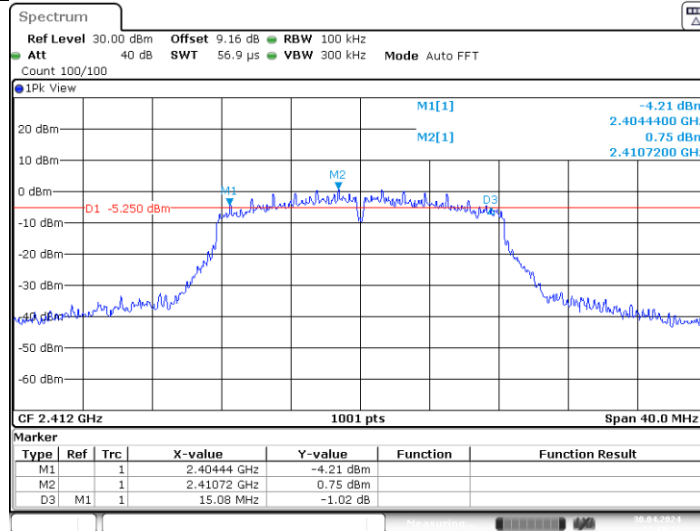
Date: 30.APR.2024 12:14:24

## 11B\_Ant1\_2462



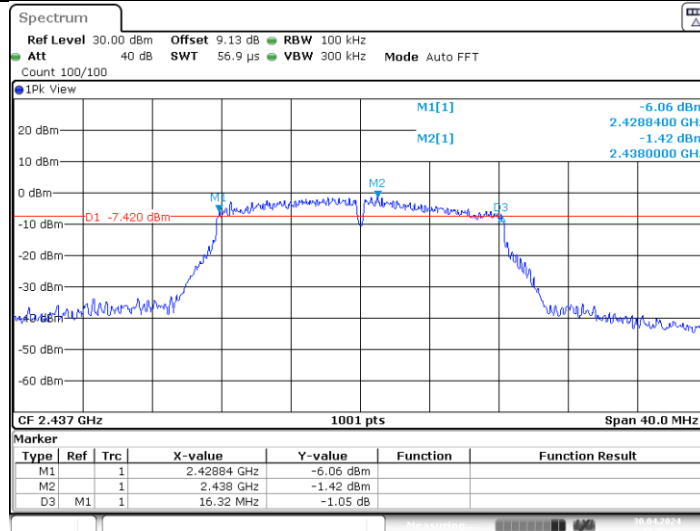
Date: 30.APR.2024 12:16:25

### 11G\_Ant1\_2412



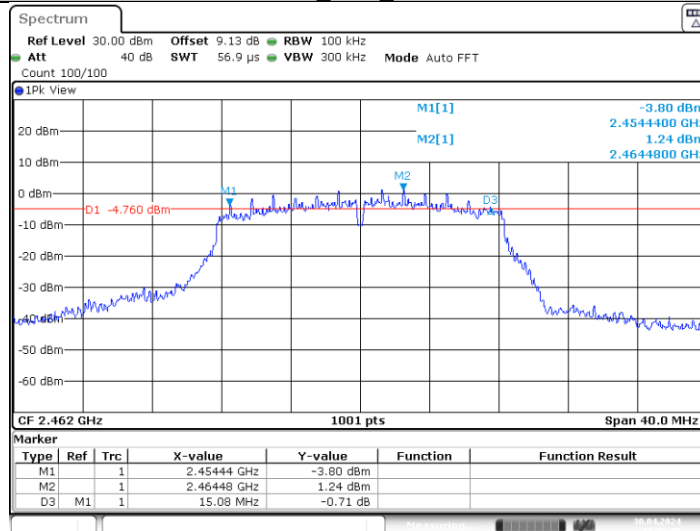
Date: 30.APR.2024 12:19:16

### 11G\_Ant1\_2437



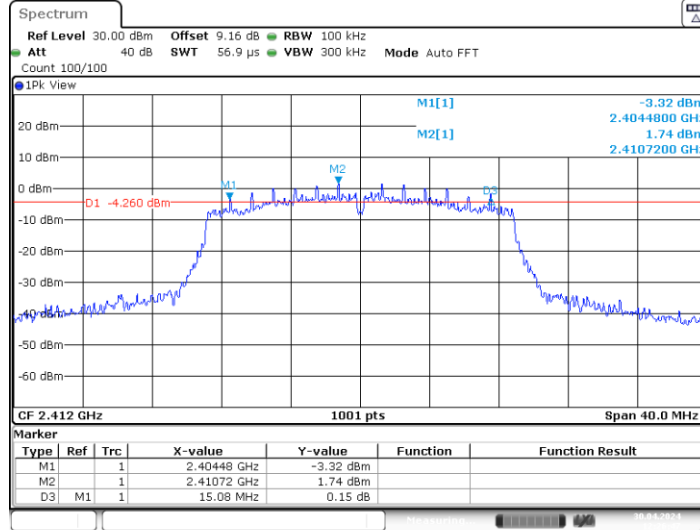
Date: 30.APR.2024 12:22:07

### 11G\_Ant1\_2462

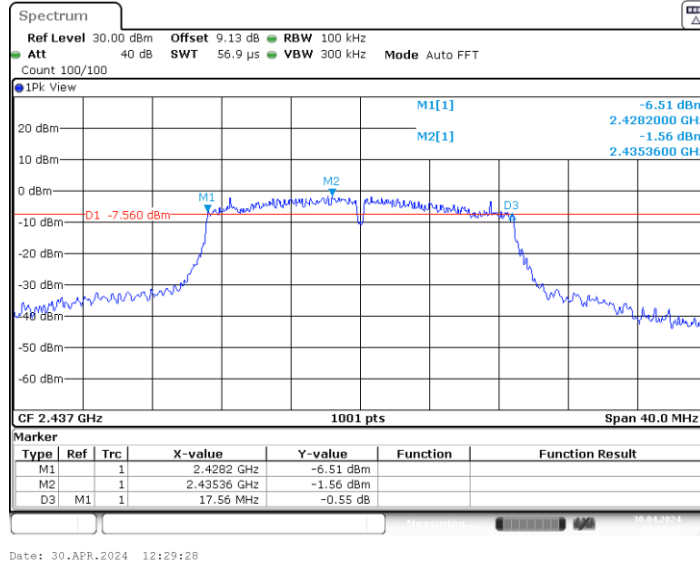


Date: 30.APR.2024 12:23:55

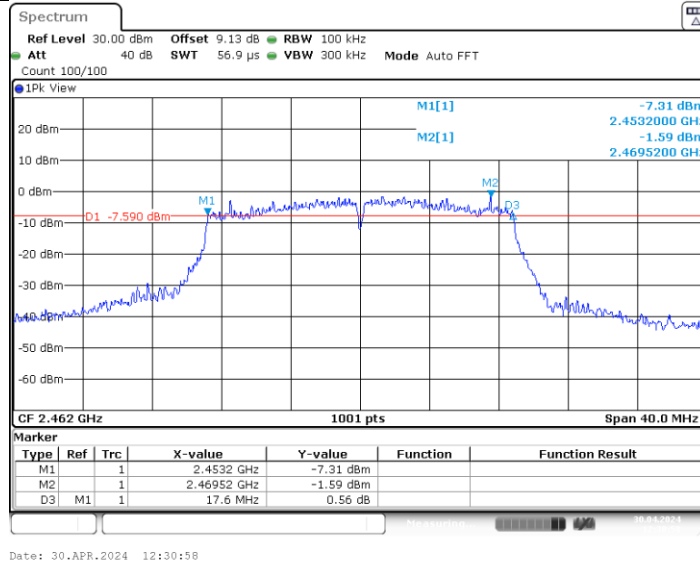
### 11N20SISO\_Ant1\_2412



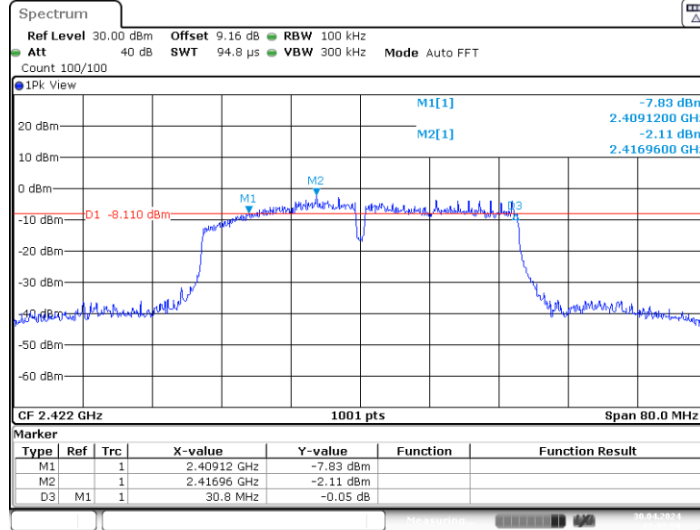
### 11N20SISO\_Ant1\_2437



### 11N20SISO\_Ant1\_2462

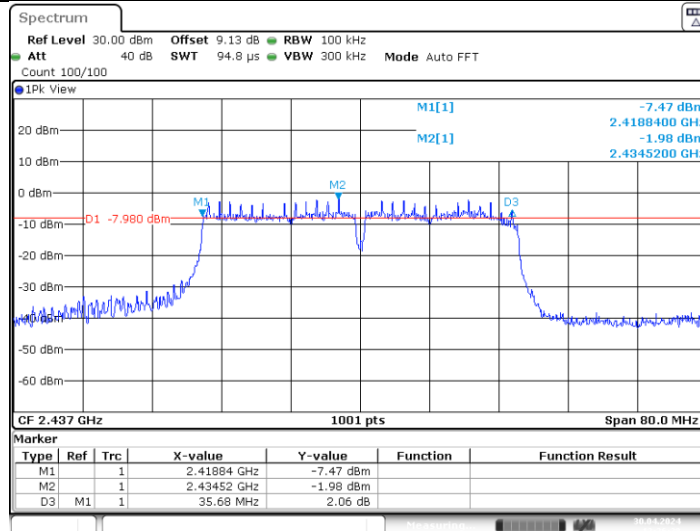


### 11N40SISO\_Ant1\_2422



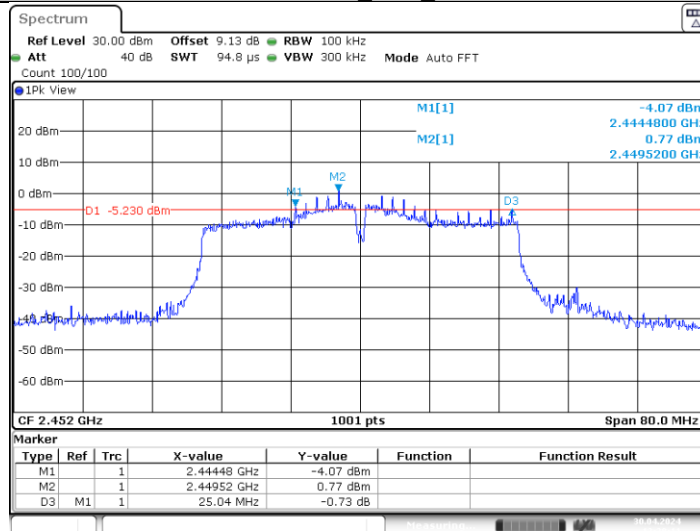
Date: 30.APR.2024 12:33:59

### 11N40SISO\_Ant1\_2437



Date: 30.APR.2024 12:36:38

### 11N40SISO\_Ant1\_2452



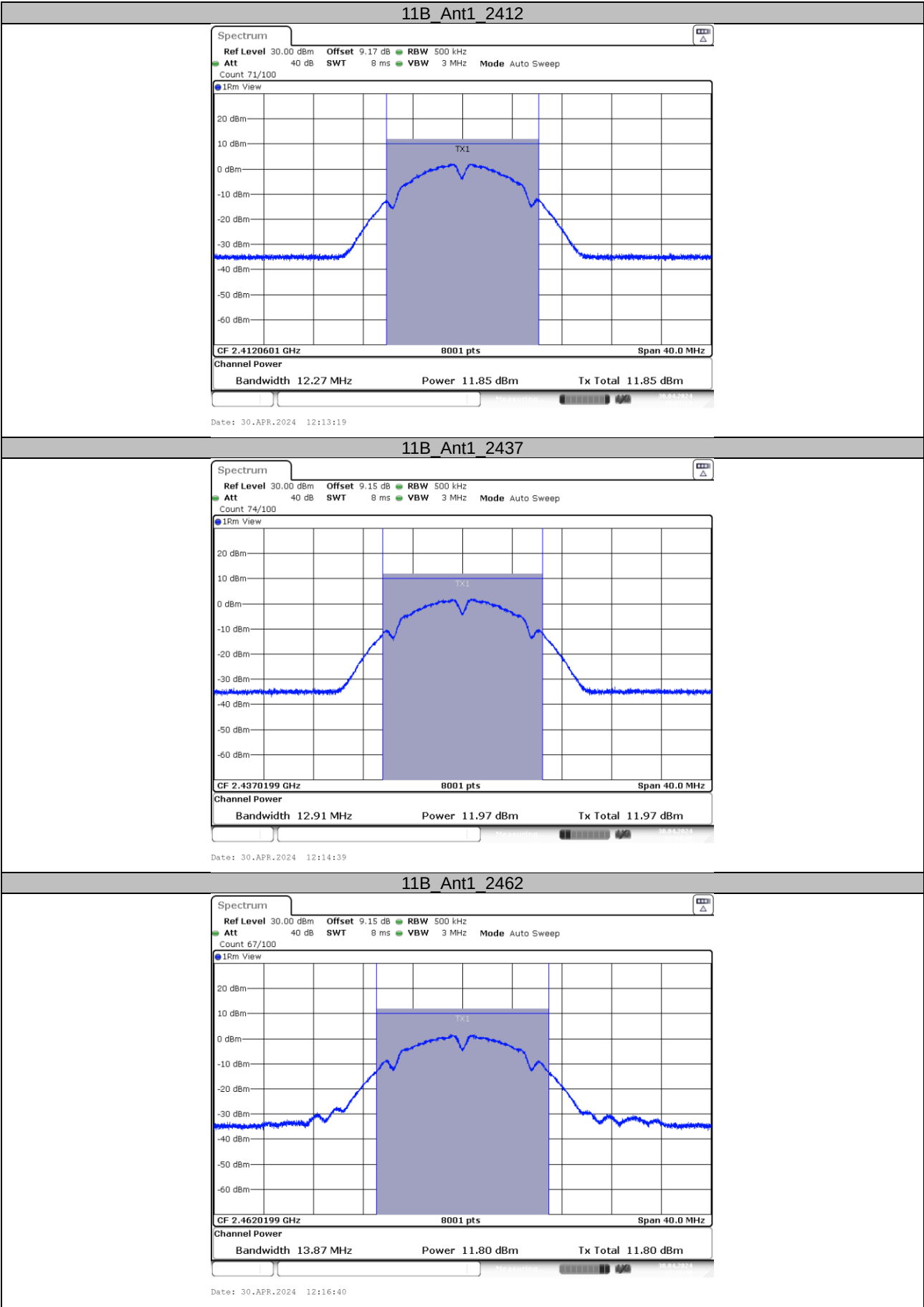
Date: 30.APR.2024 12:38:11

## APPENDIX F - MAXIMUM OUTPUT POWER

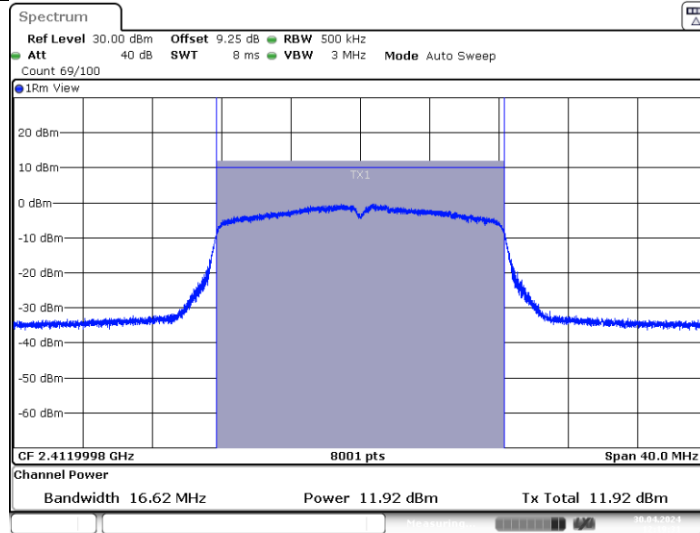
| Test Mode | Frequency[MHz] | Average power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] |
|-----------|----------------|---------------------|----------------|-----------------|--------------|-------------|
| 11B       | 2412           | 11.84               | 99.76          | 0.01            | 11.85        | ≤30.00      |
|           | 2437           | 11.95               | 99.64          | 0.02            | 11.97        | ≤30.00      |
|           | 2462           | 11.78               | 99.64          | 0.02            | 11.80        | ≤30.00      |
| 11G       | 2412           | 11.83               | 97.90          | 0.09            | 11.92        | ≤30.00      |
|           | 2437           | 11.85               | 97.20          | 0.12            | 11.97        | ≤30.00      |
|           | 2462           | 11.58               | 97.20          | 0.12            | 11.70        | ≤30.00      |
| 11N20SISO | 2412           | 11.58               | 97.01          | 0.13            | 11.71        | ≤30.00      |
|           | 2437           | 11.65               | 97.01          | 0.13            | 11.78        | ≤30.00      |
|           | 2462           | 11.58               | 97.01          | 0.13            | 11.71        | ≤30.00      |
| 11N40SISO | 2422           | 12.01               | 95.59          | 0.20            | 12.21        | ≤30.00      |
|           | 2437           | 12.02               | 95.59          | 0.20            | 12.22        | ≤30.00      |
|           | 2452           | 12.30               | 95.59          | 0.20            | 12.50        | ≤30.00      |

DC Factor =  $10 \cdot \log(1 / \text{Duty Cycle})$

TEST GRAPHS AVERAGE

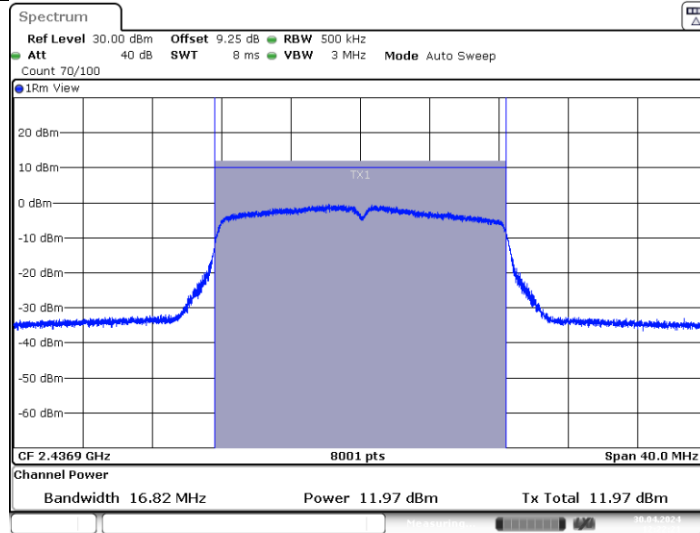


## 11G\_Ant1\_2412



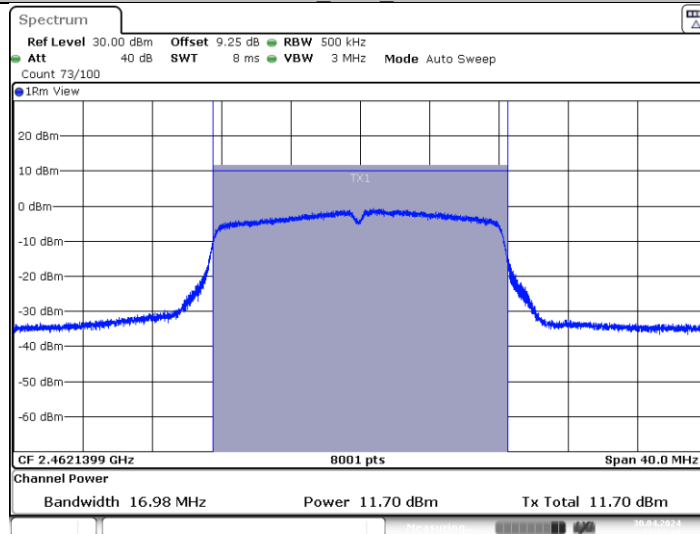
Date: 30.APR.2024 12:19:31

## 11G\_Ant1\_2437

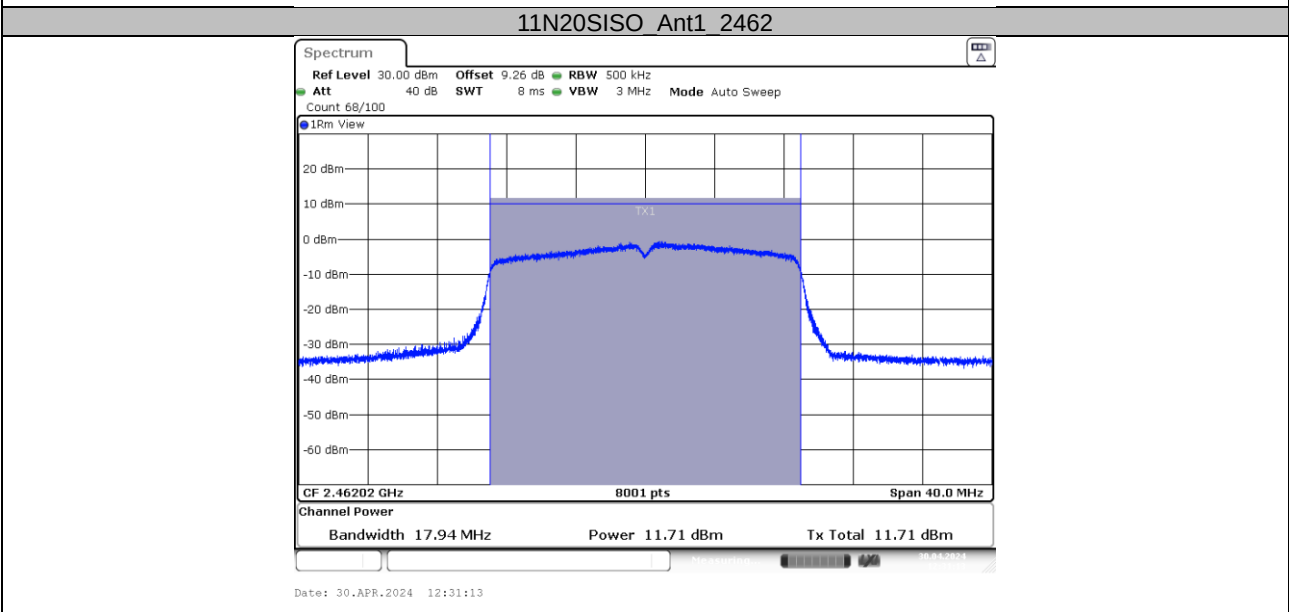
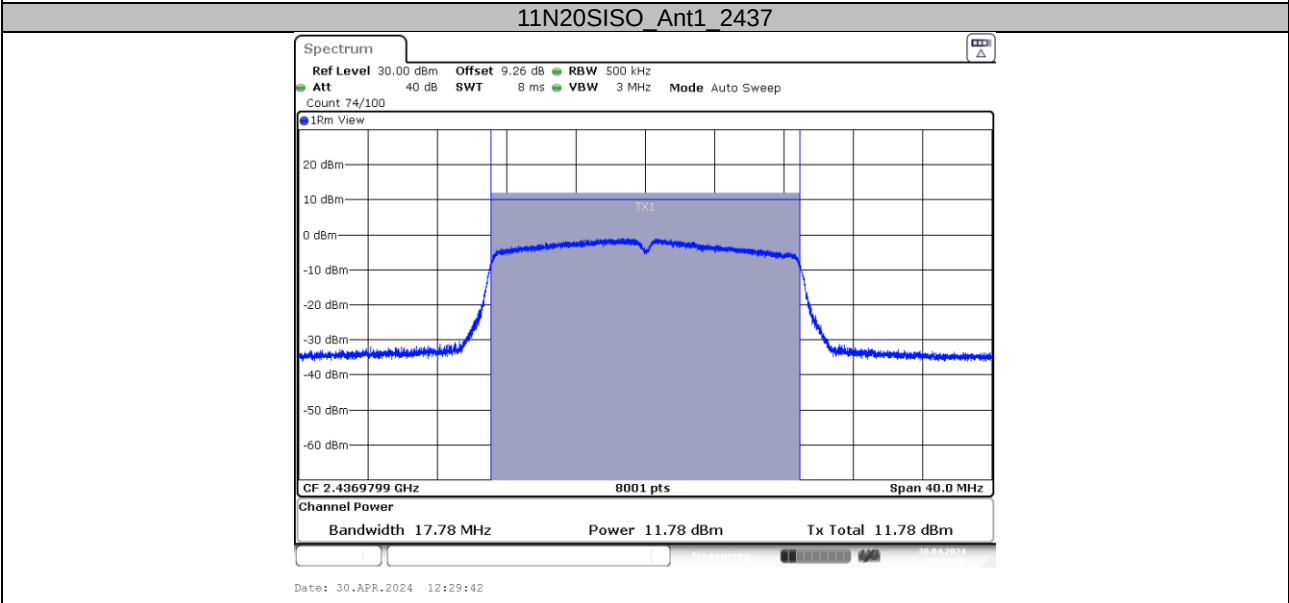
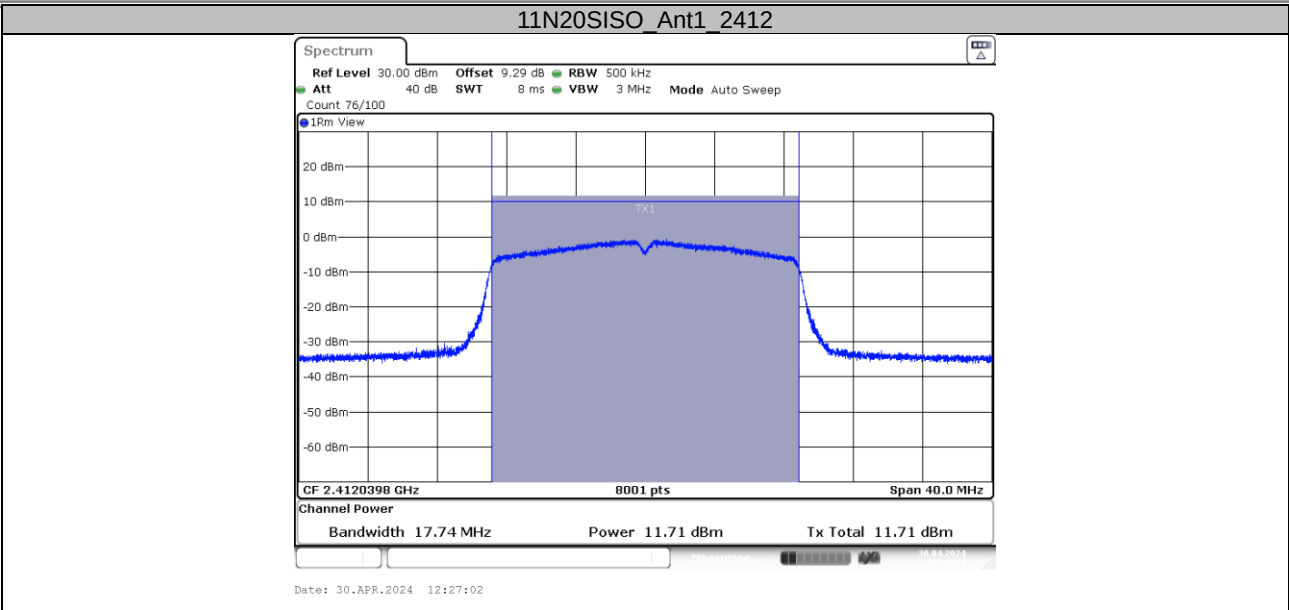


Date: 30.APR.2024 12:22:21

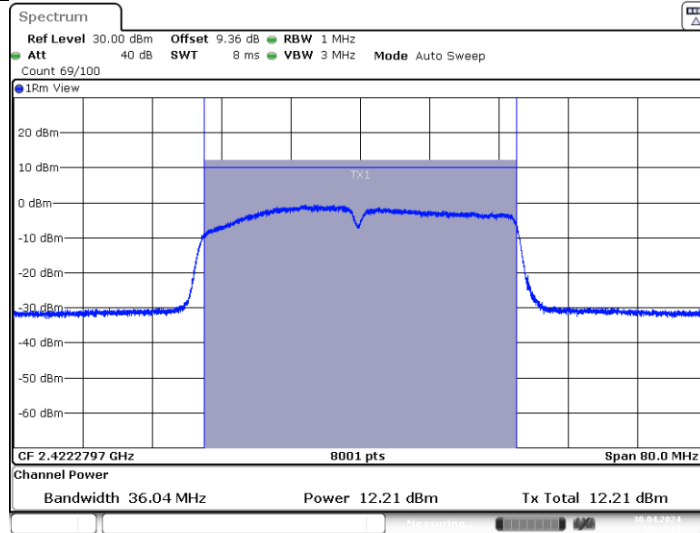
## 11G\_Ant1\_2462



Date: 30.APR.2024 12:24:10

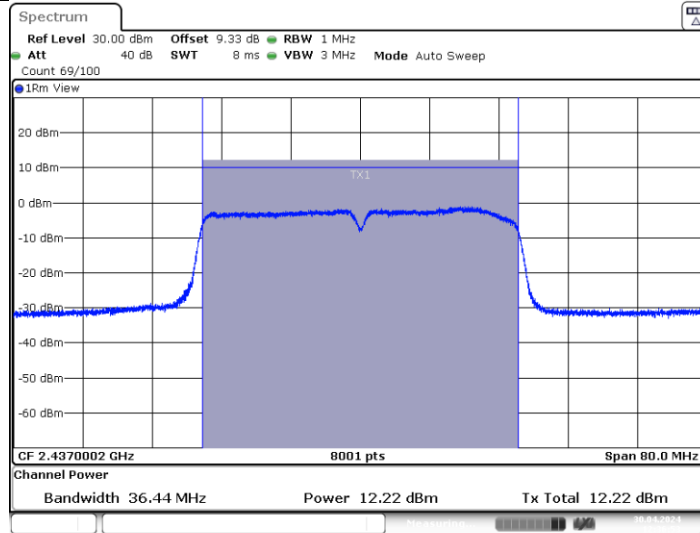


## 11N40SISO\_Ant1\_2422



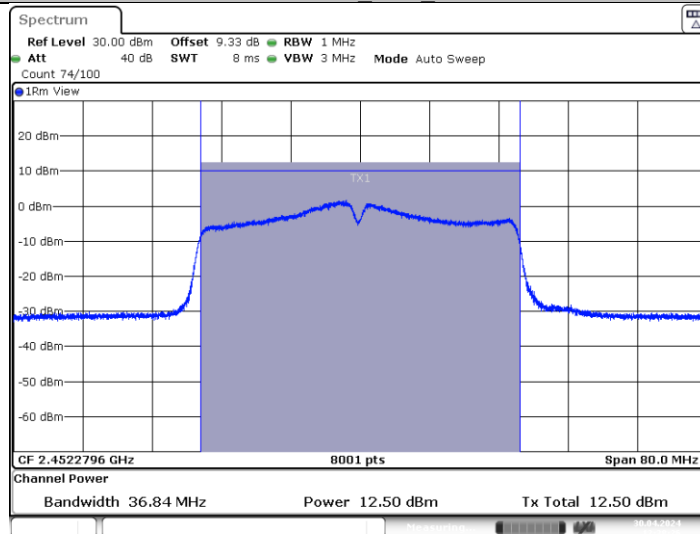
Date: 30.APR.2024 12:34:13

## 11N40SISO\_Ant1\_2437



Date: 30.APR.2024 12:36:53

## 11N40SISO\_Ant1\_2452



Date: 30.APR.2024 12:38:25

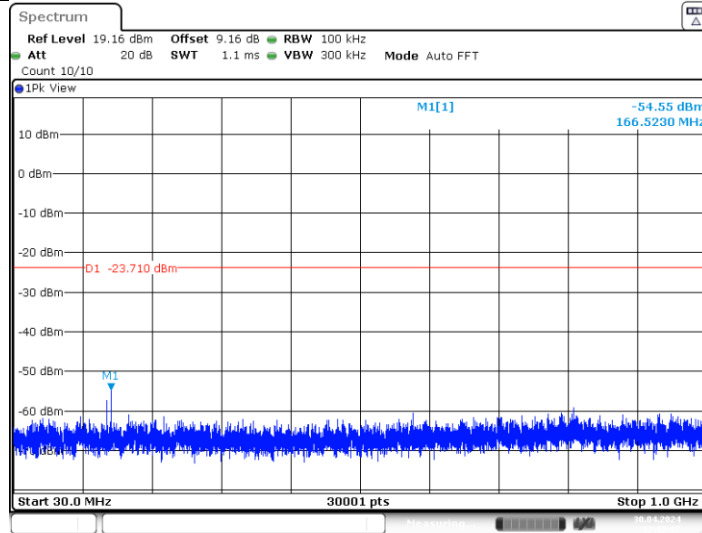
## APPENDIXG - CONDUCTED SPURIOUS EMISSIONS

### 1. Conducted Spurious Emission

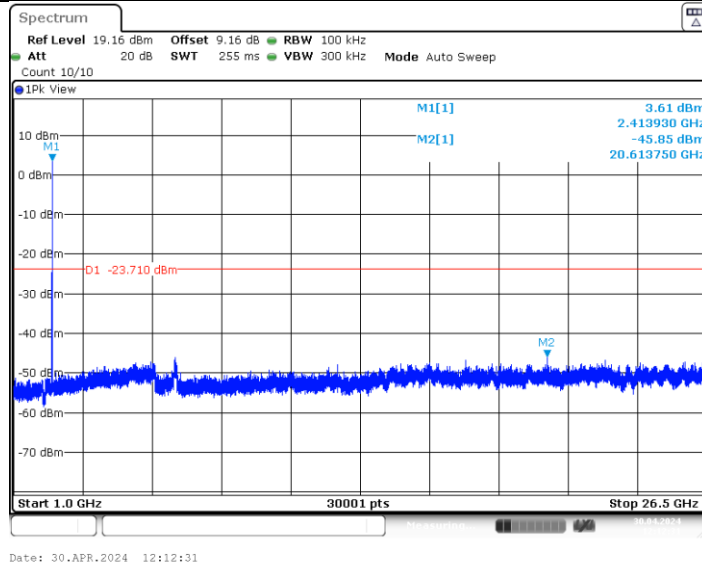
| TestMode  | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|----------------|-----------------|----------------|--------------|---------------|---------|
| 11B       | 2412           | 30~1000         | 6.29           | -54.55       | $\leq -23.71$ | PASS    |
|           |                | 1000~26500      | 6.29           | -45.85       | $\leq -23.71$ | PASS    |
|           | 2437           | 30~1000         | 3.98           | -55.3        | $\leq -26.02$ | PASS    |
|           |                | 1000~26500      | 3.98           | -46.85       | $\leq -26.02$ | PASS    |
|           | 2462           | 30~1000         | 4.07           | -54.3        | $\leq -25.93$ | PASS    |
|           |                | 1000~26500      | 4.07           | -45.69       | $\leq -25.93$ | PASS    |
| 11G       | 2412           | 30~1000         | -0.34          | -55.71       | $\leq -30.34$ | PASS    |
|           |                | 1000~26500      | -0.34          | -46.11       | $\leq -30.34$ | PASS    |
|           | 2437           | 30~1000         | 1.37           | -56.29       | $\leq -28.63$ | PASS    |
|           |                | 1000~26500      | 1.37           | -46.25       | $\leq -28.63$ | PASS    |
|           | 2462           | 30~1000         | 1.59           | -54.7        | $\leq -28.41$ | PASS    |
|           |                | 1000~26500      | 1.59           | -44.99       | $\leq -28.41$ | PASS    |
| 11N20SISO | 2412           | 30~1000         | 1.78           | -55.54       | $\leq -28.22$ | PASS    |
|           |                | 1000~26500      | 1.78           | -46.74       | $\leq -28.22$ | PASS    |
|           | 2437           | 30~1000         | 1.22           | -54.64       | $\leq -28.78$ | PASS    |
|           |                | 1000~26500      | 1.22           | -45.5        | $\leq -28.78$ | PASS    |
|           | 2462           | 30~1000         | 1.64           | -55.92       | $\leq -28.36$ | PASS    |
|           |                | 1000~26500      | 1.64           | -46.87       | $\leq -28.36$ | PASS    |
| 11N40SISO | 2422           | 30~1000         | -0.58          | -55.15       | $\leq -30.58$ | PASS    |
|           |                | 1000~26500      | -0.58          | -46.4        | $\leq -30.58$ | PASS    |
|           | 2437           | 30~1000         | -1.67          | -53.95       | $\leq -31.67$ | PASS    |
|           |                | 1000~26500      | -1.67          | -45.99       | $\leq -31.67$ | PASS    |
|           | 2452           | 30~1000         | 0.78           | -54.15       | $\leq -29.22$ | PASS    |
|           |                | 1000~26500      | 0.78           | -46.62       | $\leq -29.22$ | PASS    |

# Test Graphs

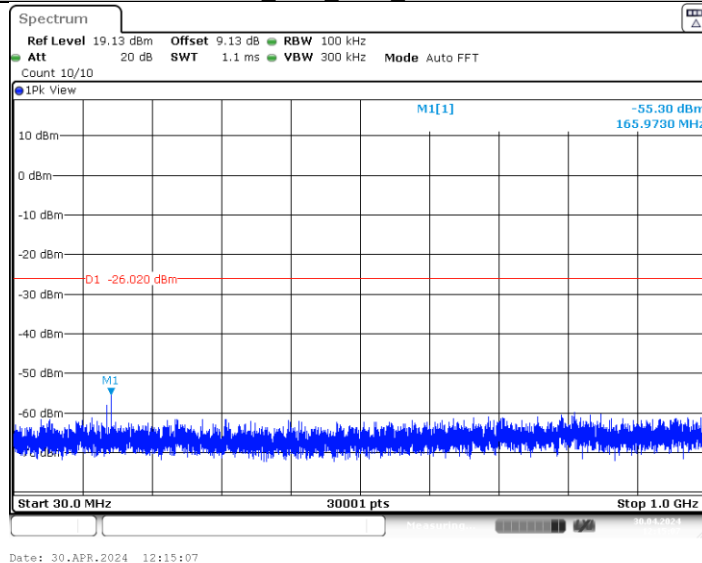
## 11B\_Ant1\_2412\_30~1000



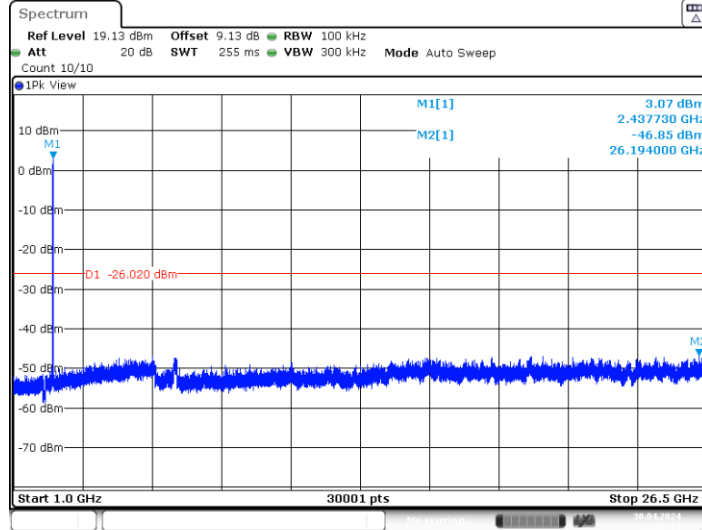
## 11B\_Ant1\_2412\_1000~26500



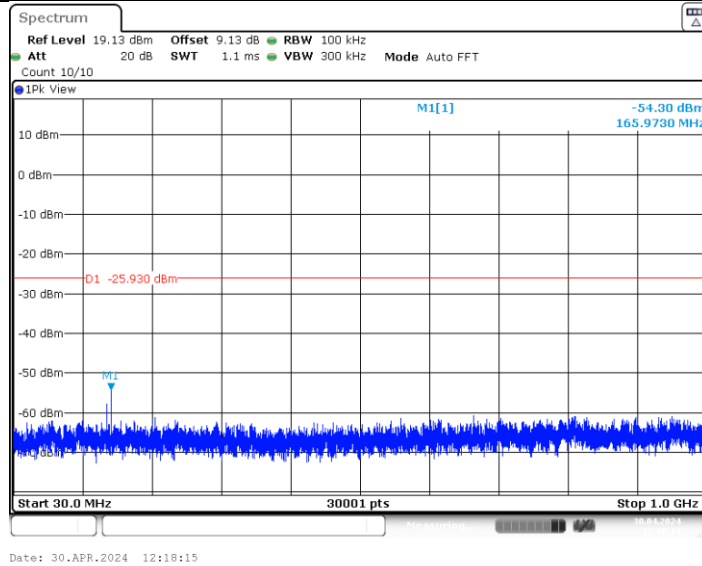
## 11B\_Ant1\_2437\_30~1000



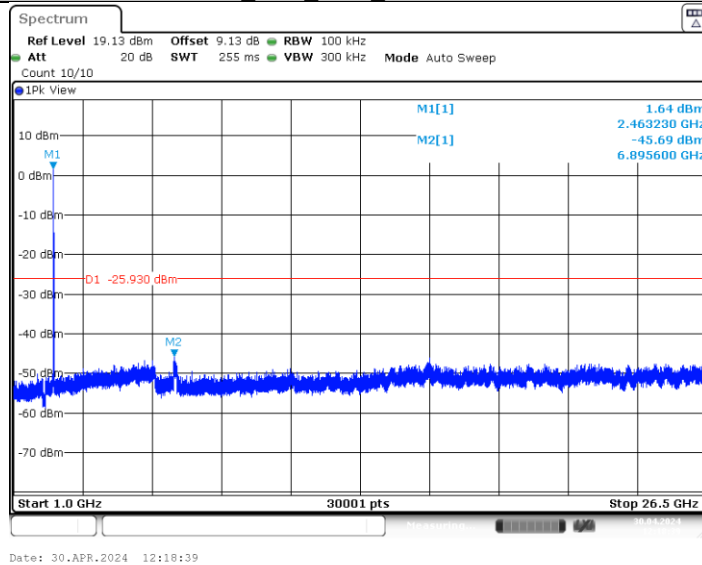
## 11B\_Ant1\_2437\_1000~26500



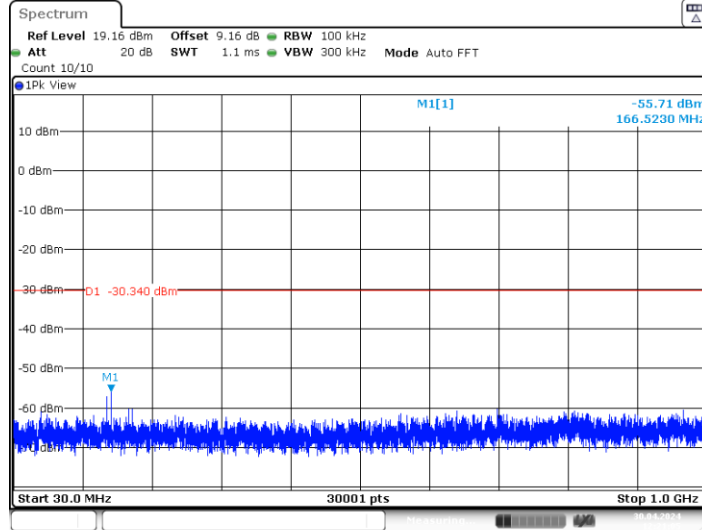
## 11B\_Ant1\_2462\_30~1000



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

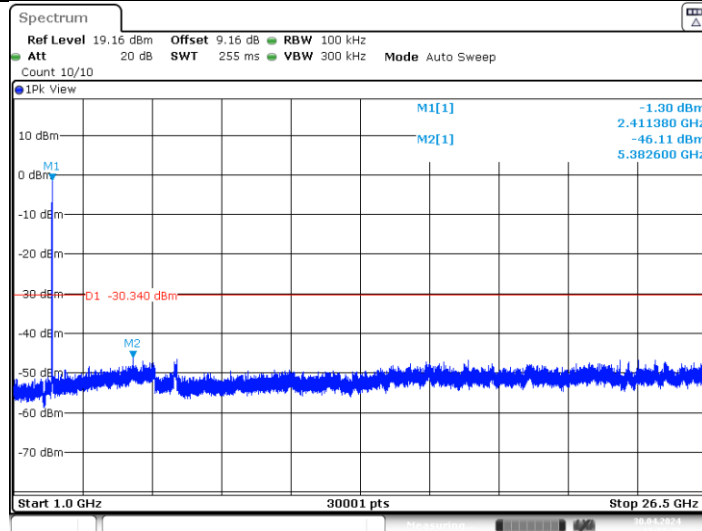


## 11G\_Ant1\_2412\_30~1000



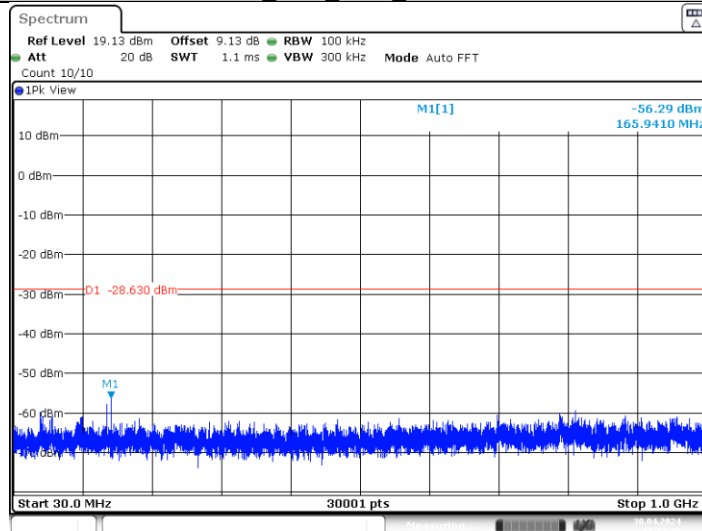
Date: 30.APR.2024 12:21:05

## 11G\_Ant1\_2412\_1000~26500



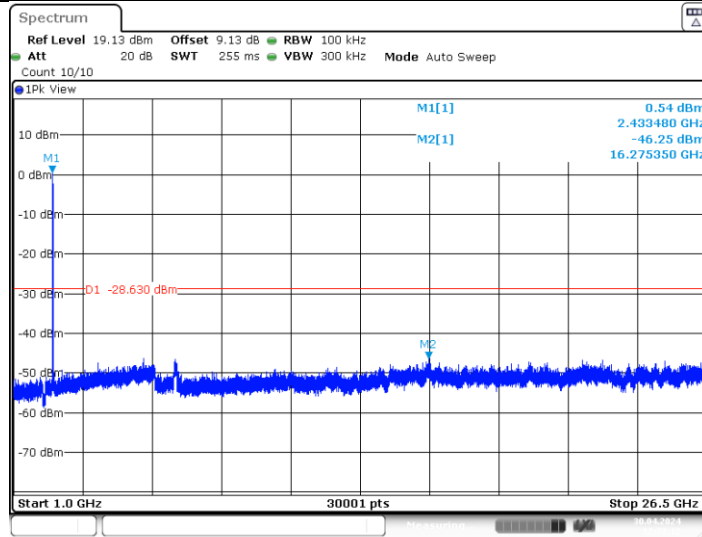
Date: 30.APR.2024 12:21:30

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



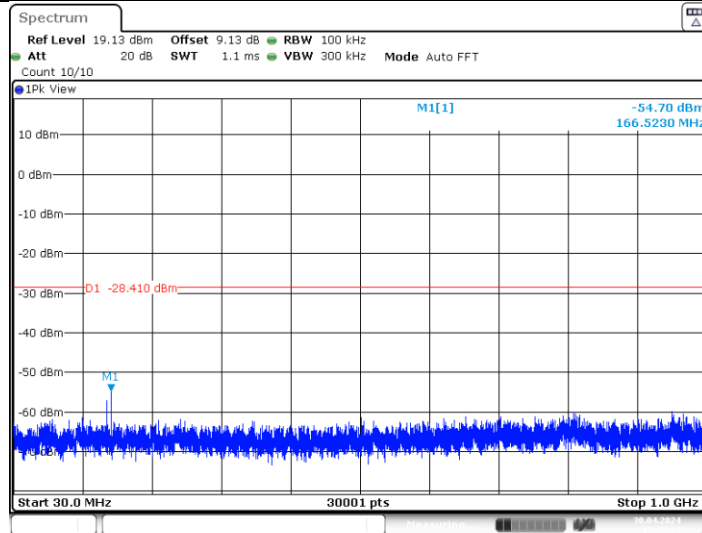
Date: 30.APR.2024 12:22:48

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



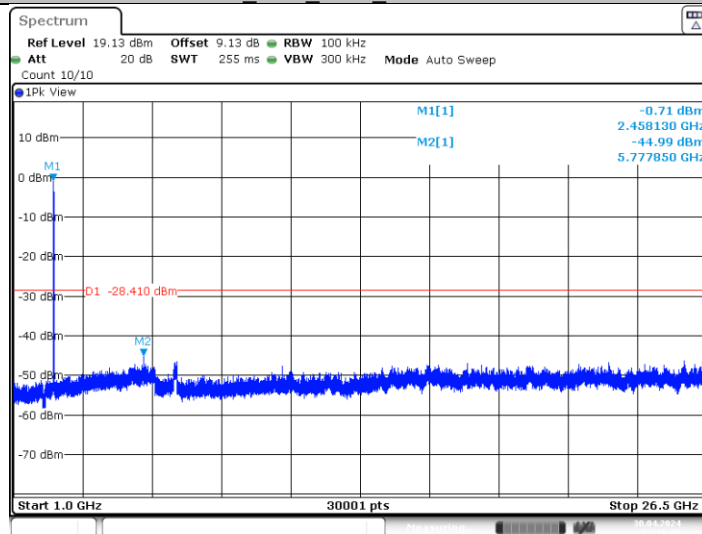
Date: 30.APR.2024 12:23:13

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



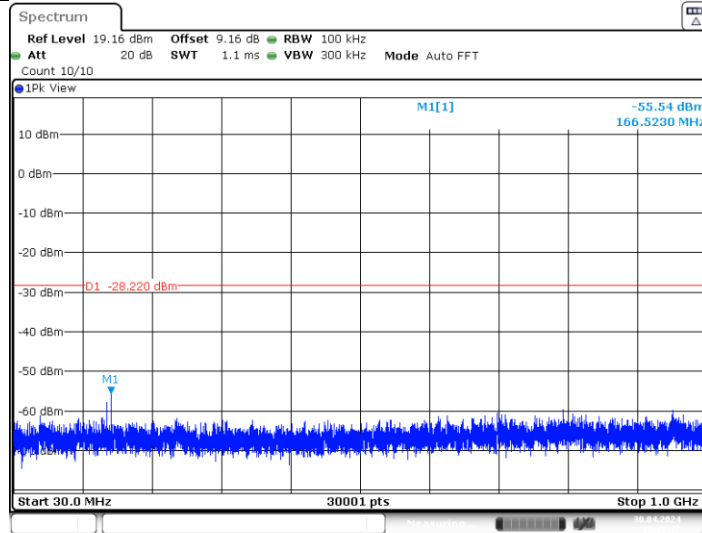
Date: 30.APR.2024 12:25:44

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



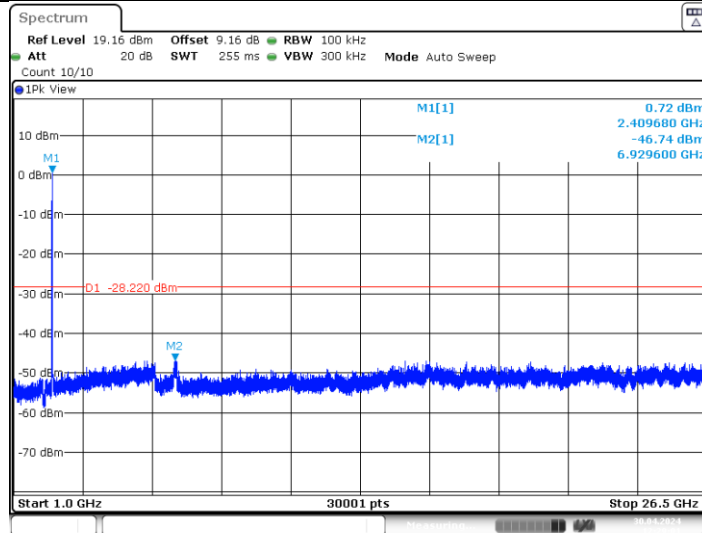
Date: 30.APR.2024 12:26:09

## 11N20SISO\_Ant1\_2412\_30~1000



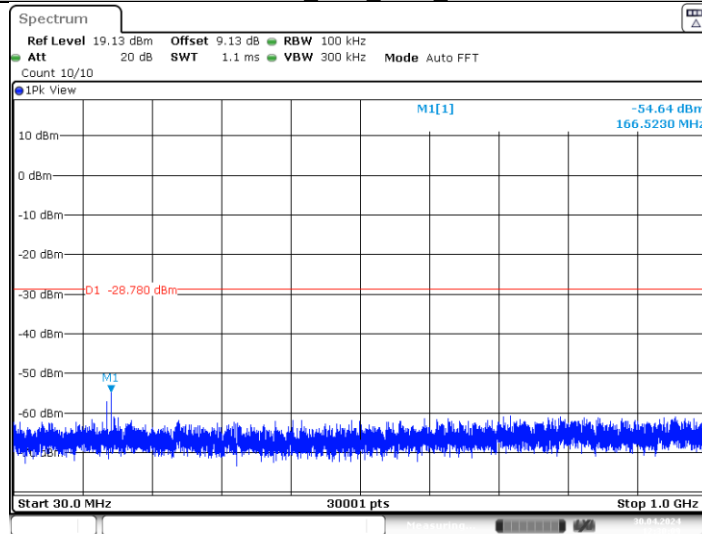
Date: 30.APR.2024 12:28:37

## 11N20SISO\_Ant1\_2412\_1000~26500



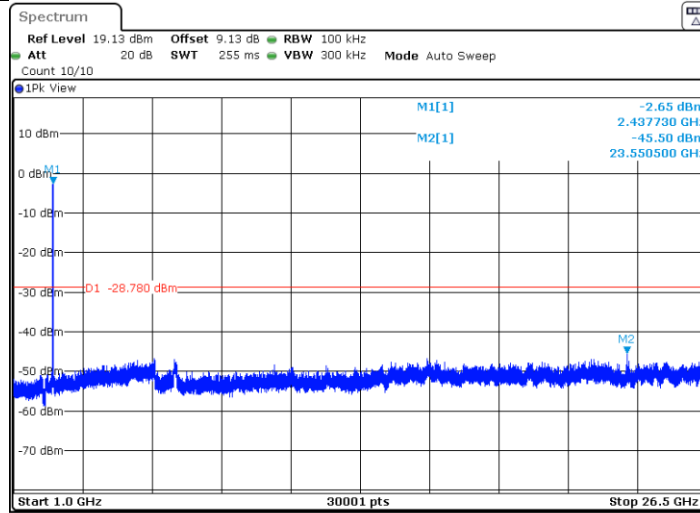
Date: 30.APR.2024 12:29:01

## 11N20SISO\_Ant1\_2437\_30~1000



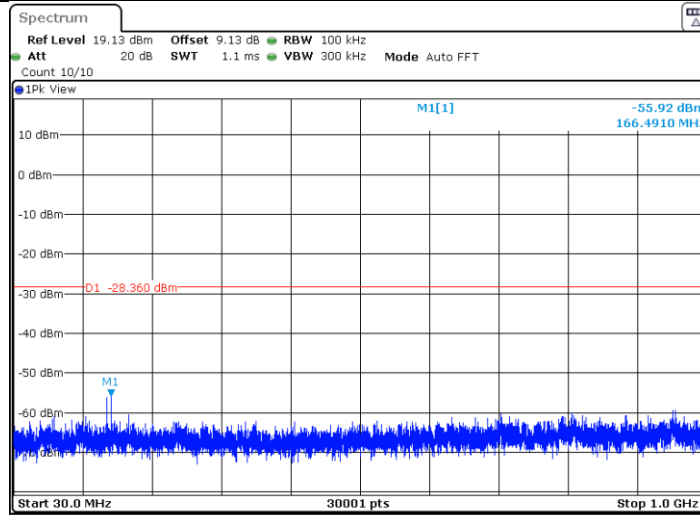
Date: 30.APR.2024 12:30:09

## 11N20SISO\_Ant1\_2437\_1000~26500



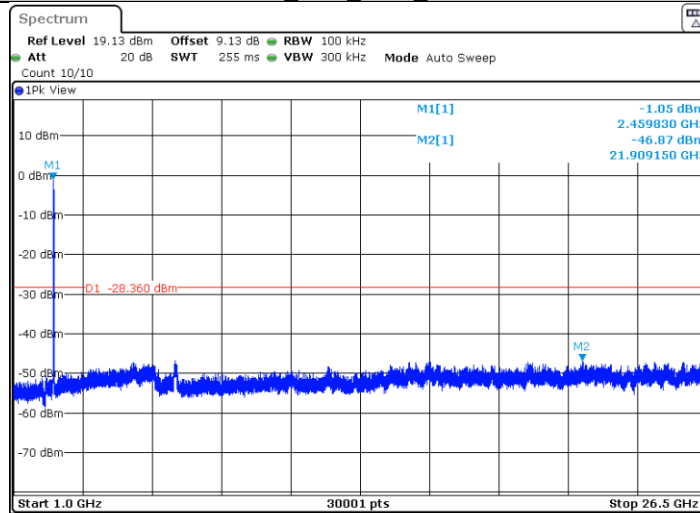
Date: 30.APR.2024 12:30:34

## 11N20SISO\_Ant1\_2462\_30~1000



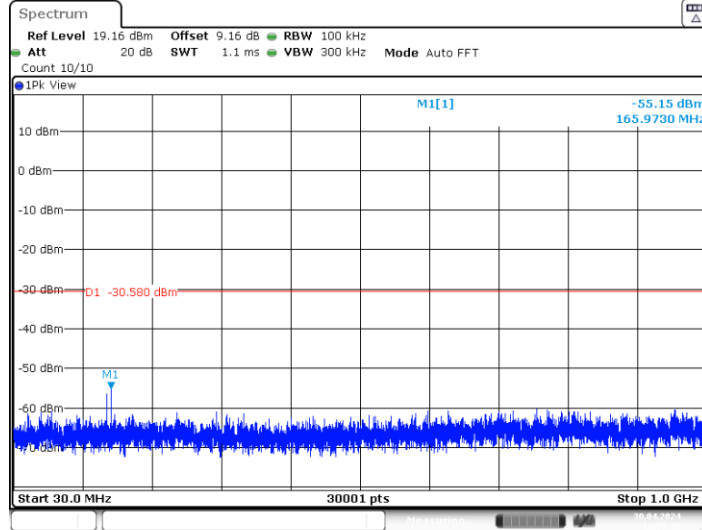
Date: 30.APR.2024 12:32:47

## 11N20SISO\_Ant1\_2462\_1000~26500

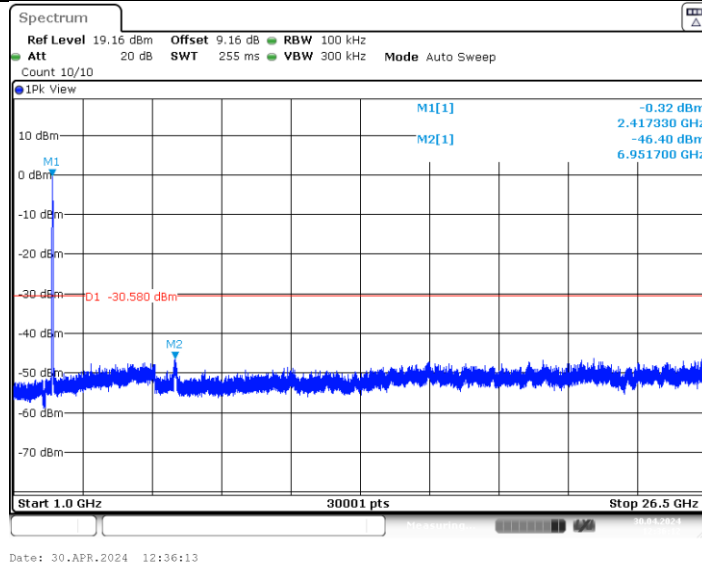


Date: 30.APR.2024 12:33:12

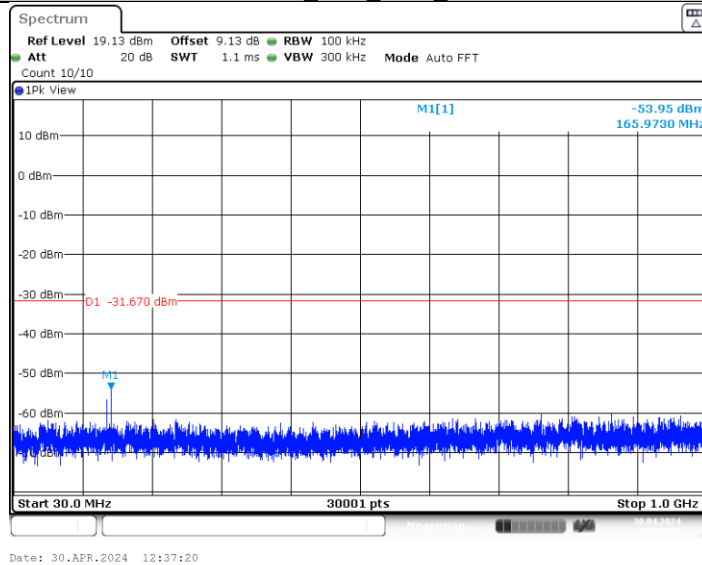
## 11N40SISO\_Ant1\_2422\_30~1000



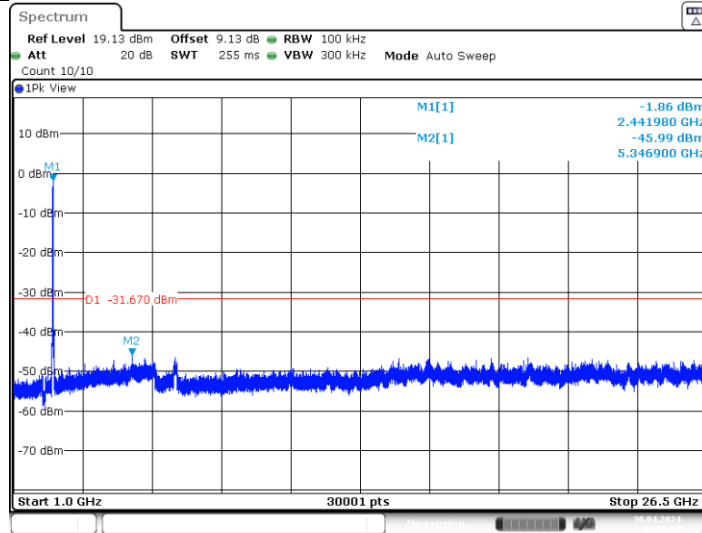
## 11N40SISO\_Ant1\_2422\_1000~26500



## 11N40SISO\_Ant1\_2437\_30~1000

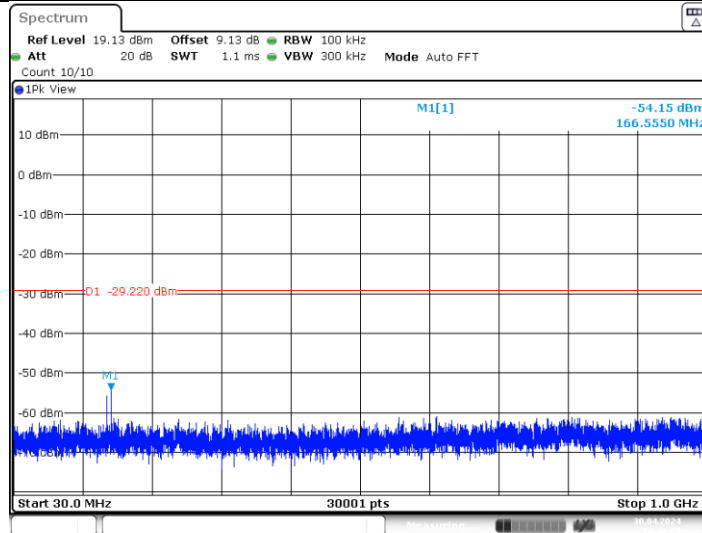


## 11N40SISO\_Ant1\_2437\_1000~26500



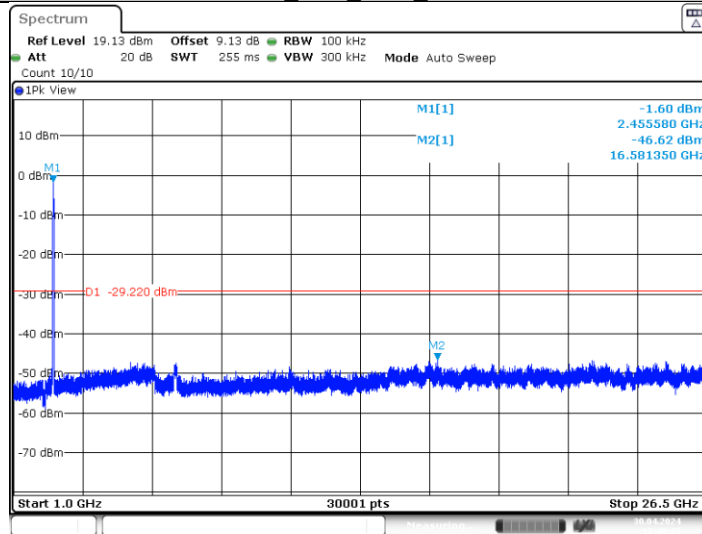
Date: 30.APR.2024 12:37:45

## 11N40SISO\_Ant1\_2452\_30~1000



Date: 30.APR.2024 12:40:00

## 11N40SISO\_Ant1\_2452\_1000~26500



Date: 30.APR.2024 12:40:25

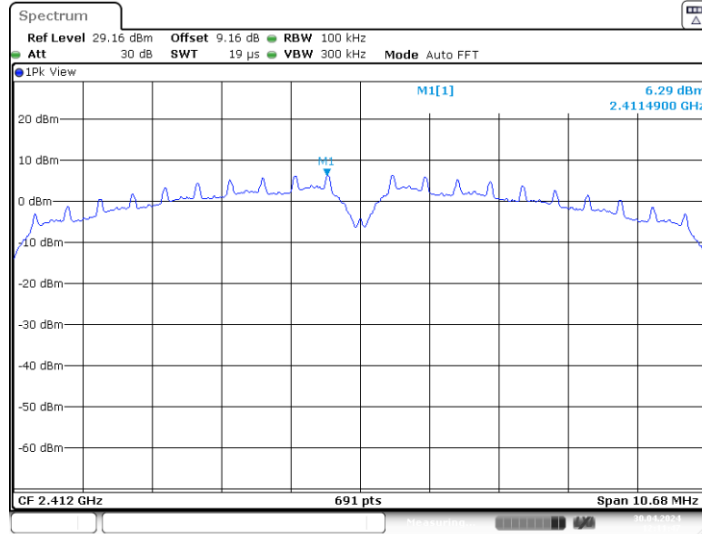
## 2. Band edge measurements

Reference level measurement

| TestMode  | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|-----------|-----------|----------------|-------------|
| 11B       | 2412      | 2411.49        | 6.29        |
|           | 2437      | 2437.99        | 3.98        |
|           | 2462      | 2461.49        | 4.07        |
| 11G       | 2412      | 2413.31        | -0.34       |
|           | 2437      | 2438.24        | 1.37        |
|           | 2462      | 2463.24        | 1.59        |
| 11N20SISO | 2412      | 2413.24        | 1.78        |
|           | 2437      | 2438.26        | 1.22        |
|           | 2462      | 2464.48        | 1.64        |
| 11N40SISO | 2422      | 2416.99        | -0.58       |
|           | 2437      | 2449.47        | -1.67       |
|           | 2452      | 2449.50        | 0.78        |

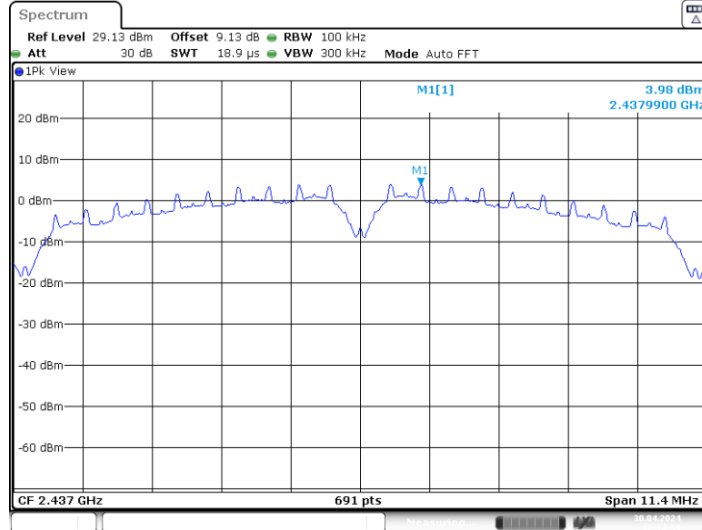
# TEST GRAPHS

11B\_Ant1\_2412



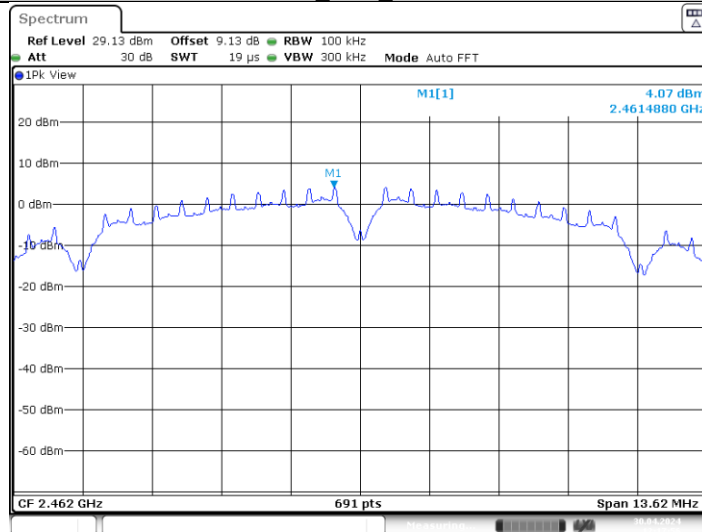
Date: 30.APR.2024 12:11:48

11B\_Ant1\_2437



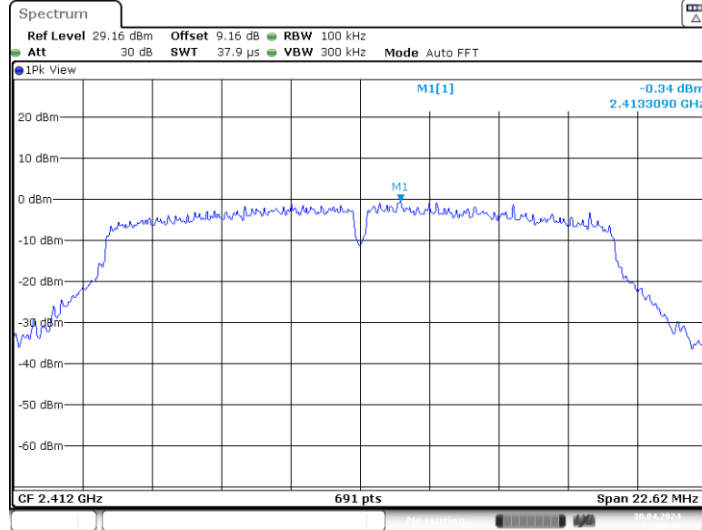
Date: 30.APR.2024 12:14:58

11B\_Ant1\_2462

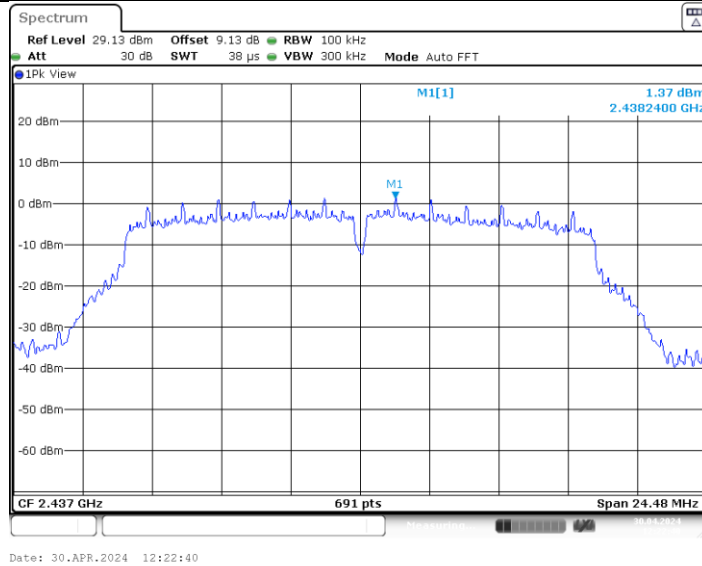


Date: 30.APR.2024 12:17:56

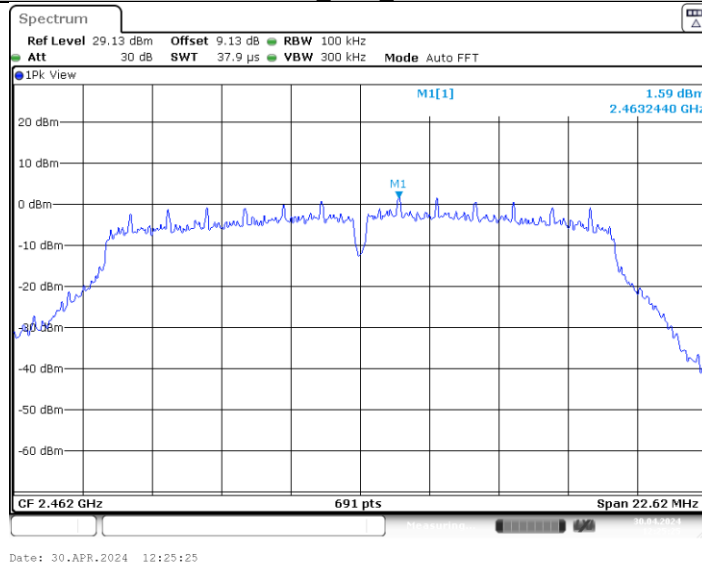
## 11G\_Ant1\_2412



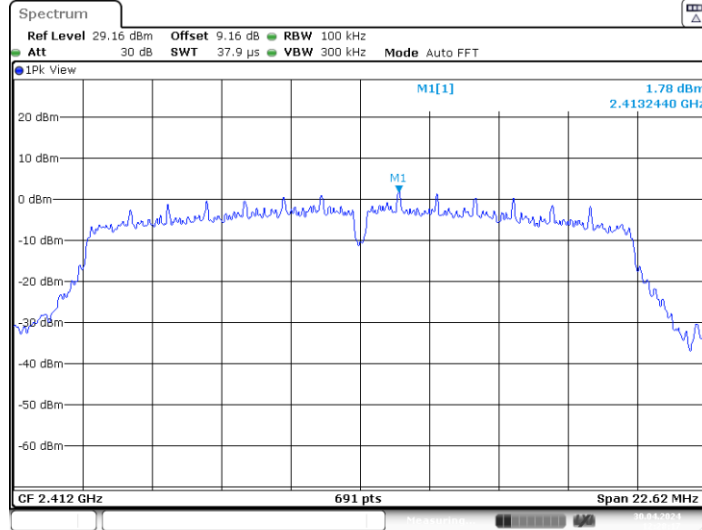
## 11G\_Ant1\_2437



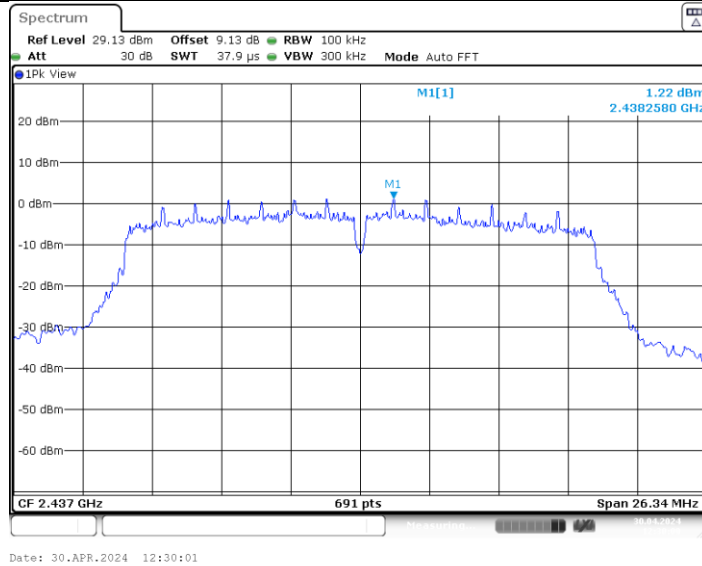
## 11G\_Ant1\_2462



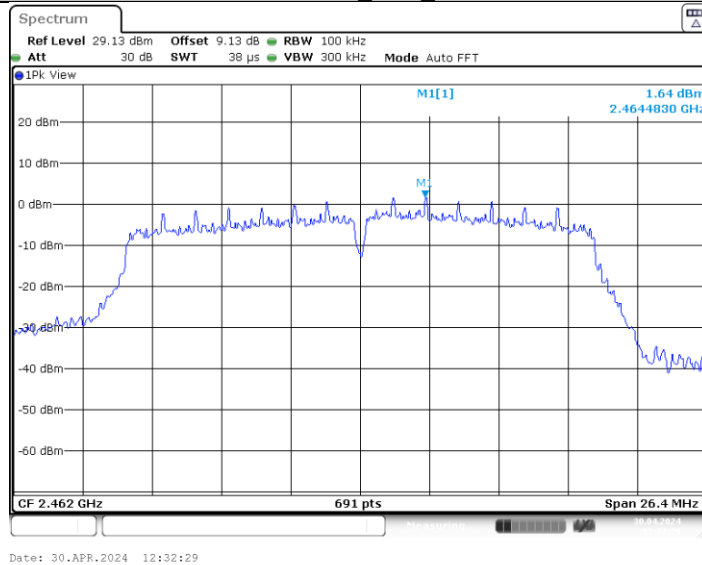
## 11N20SISO\_Ant1\_2412

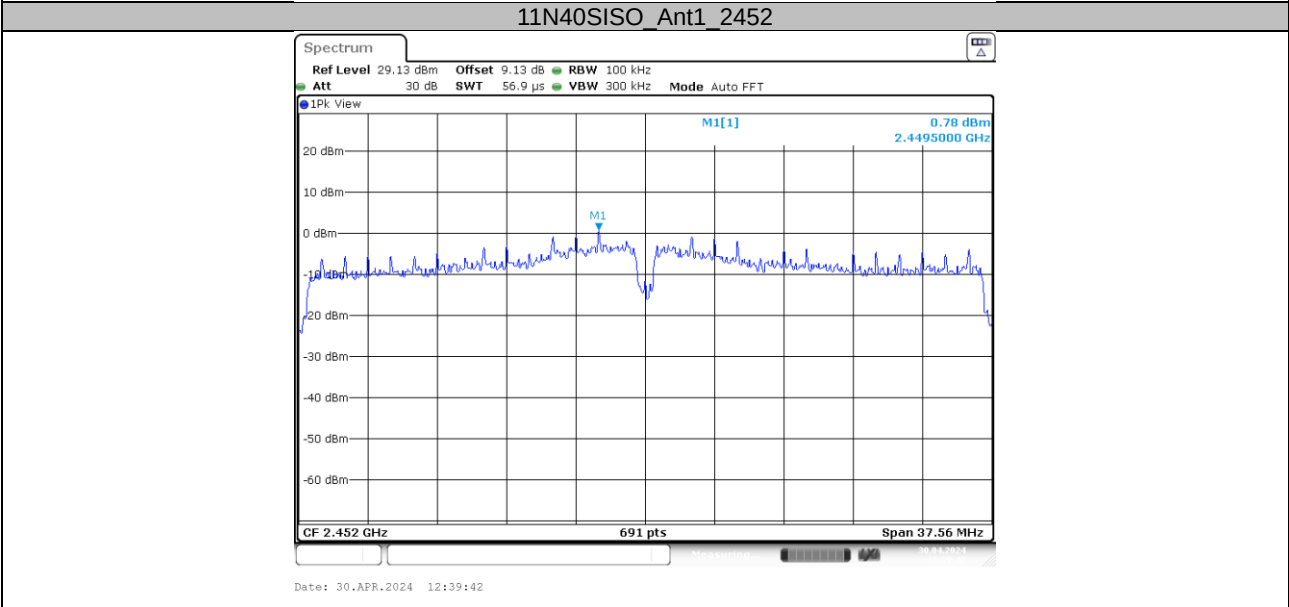
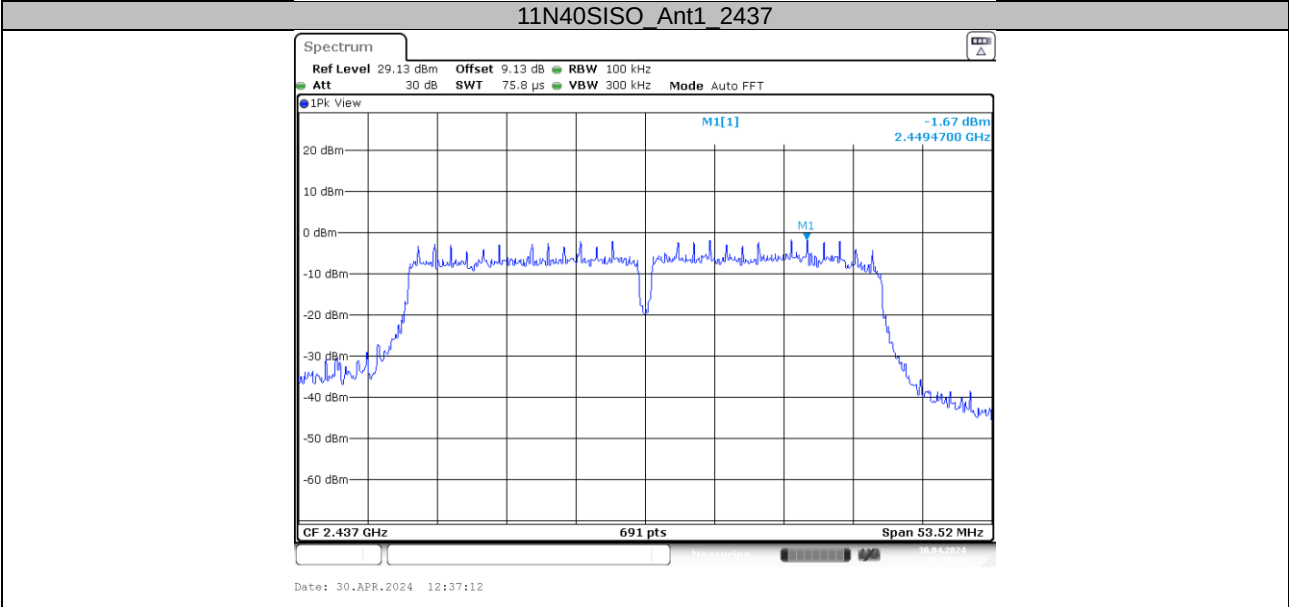
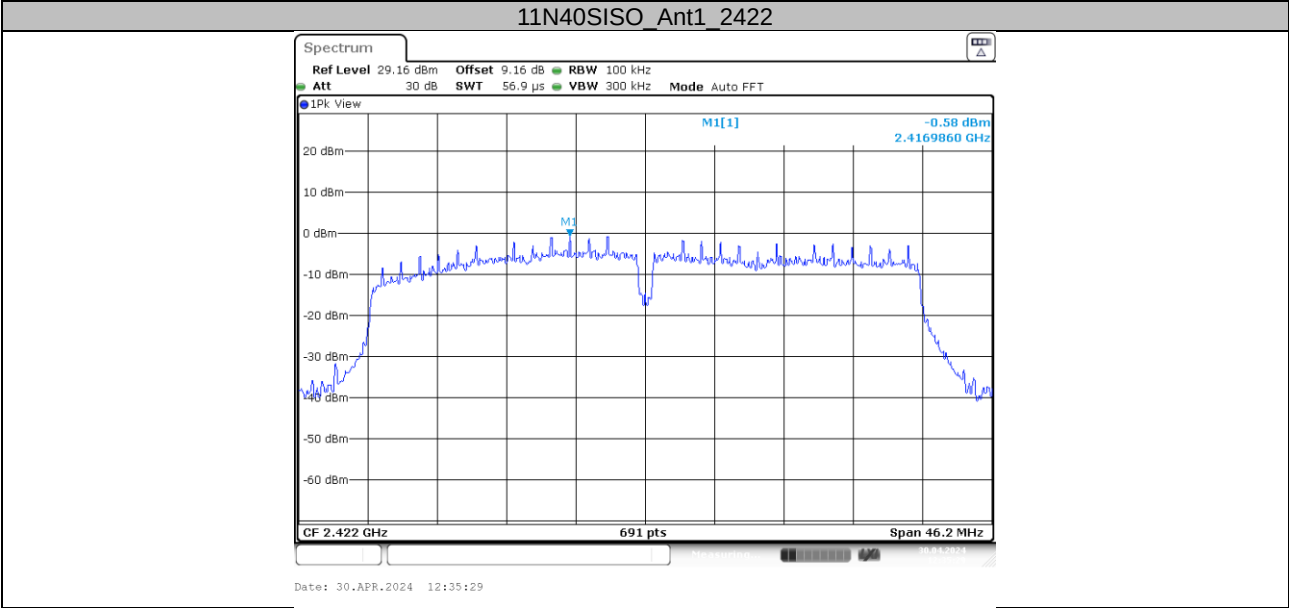


## 11N20SISO\_Ant1\_2437



## 11N20SISO\_Ant1\_2462





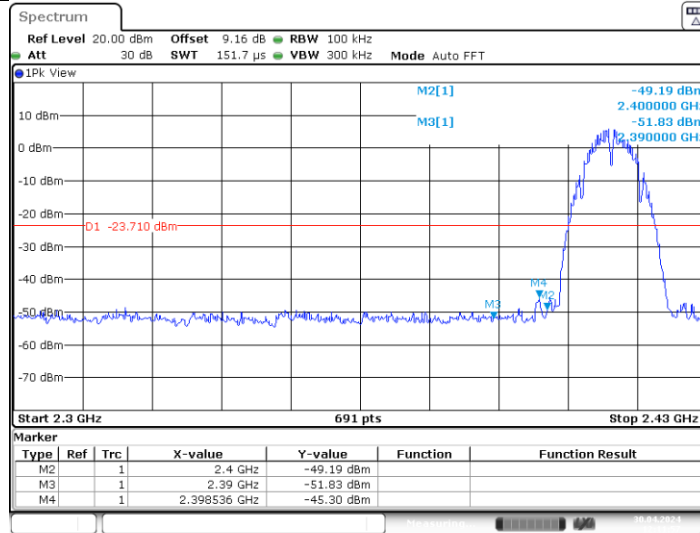
## Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

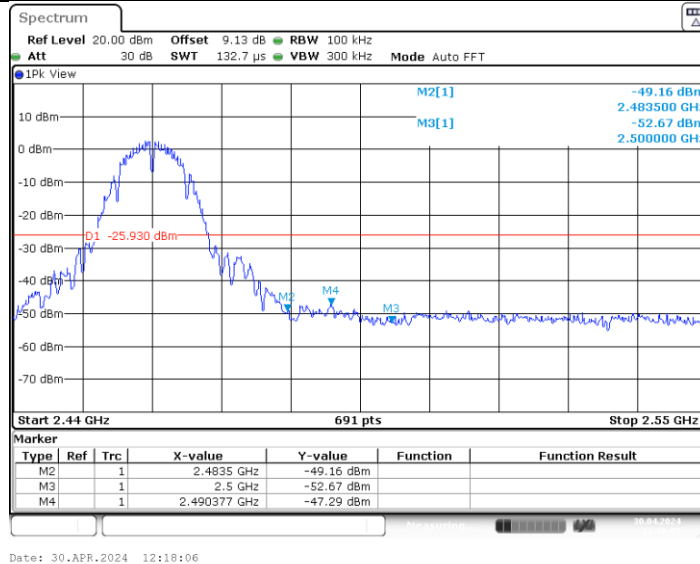
# Band edge measurements

| TestMode  | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|--------|----------------|---------------|-------------|------------|---------|
| 11B       | Low    | 2412           | 6.29          | -45.3       | ≤-23.71    | PASS    |
|           | High   | 2462           | 4.07          | -47.29      | ≤-25.93    | PASS    |
| 11G       | Low    | 2412           | -0.34         | -31.3       | ≤-30.34    | PASS    |
|           | High   | 2462           | 1.59          | -48.7       | ≤-28.41    | PASS    |
| 11N20SISO | Low    | 2412           | 1.78          | -34.06      | ≤-28.22    | PASS    |
|           | High   | 2462           | 1.64          | -47.85      | ≤-28.36    | PASS    |
| 11N40SISO | Low    | 2422           | -0.58         | -37.46      | ≤-30.58    | PASS    |
|           | High   | 2452           | 0.78          | -40.19      | ≤-29.22    | PASS    |

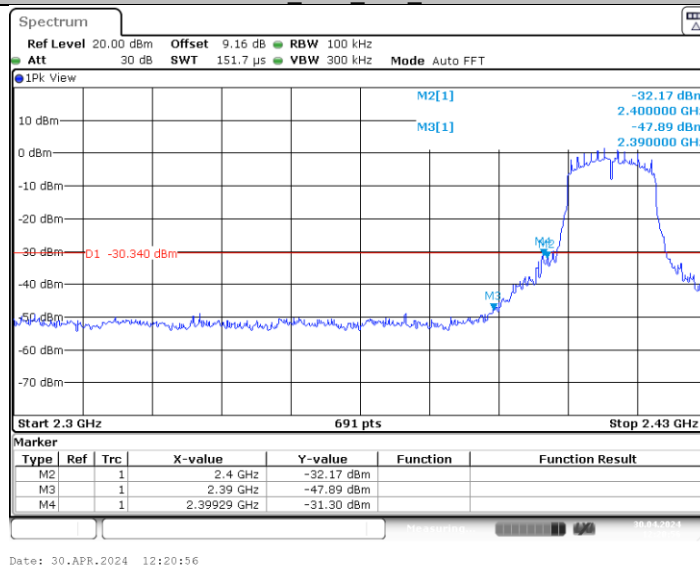
### 11B\_Ant1\_Low\_2412



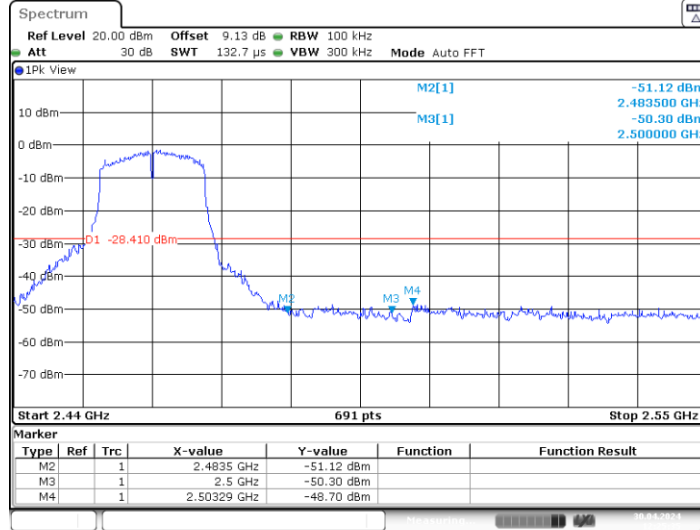
### 11B\_Ant1\_High\_2462



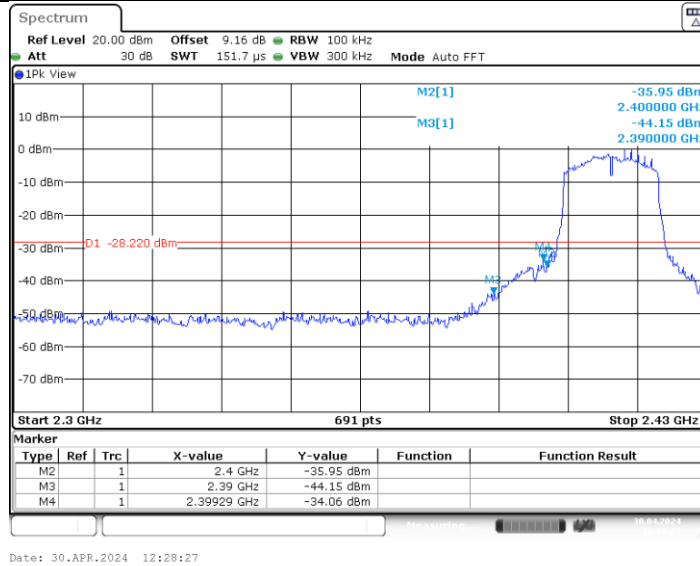
### 11G\_Ant1\_Low\_2412



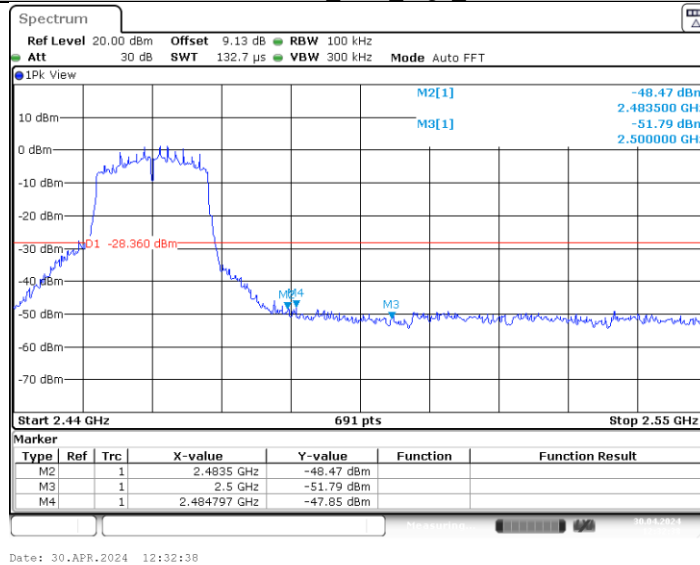
### 11G Ant1 High 2462



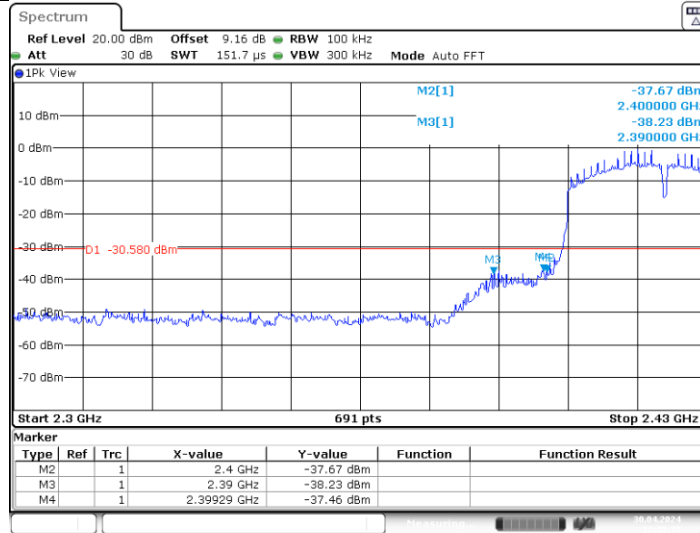
### 11N20SISO Ant1 Low 2412



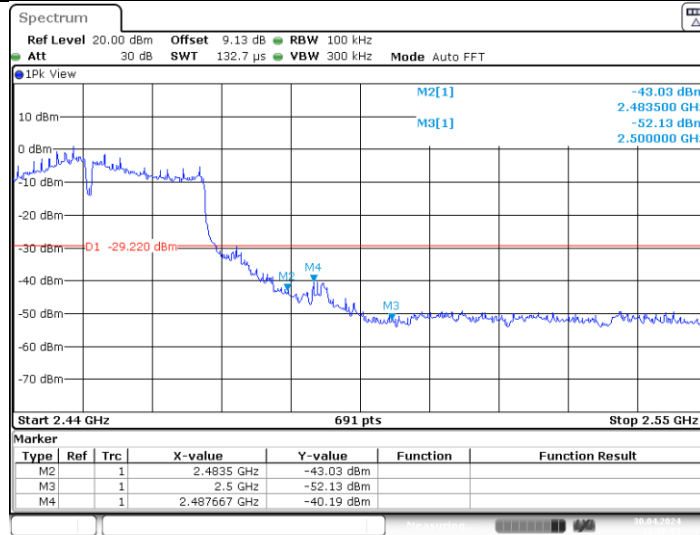
### 11N20SISO Ant1 High 2462



### 11N40SISO\_Ant1\_Low\_2422



### 11N40SISO\_Ant1\_High\_2452

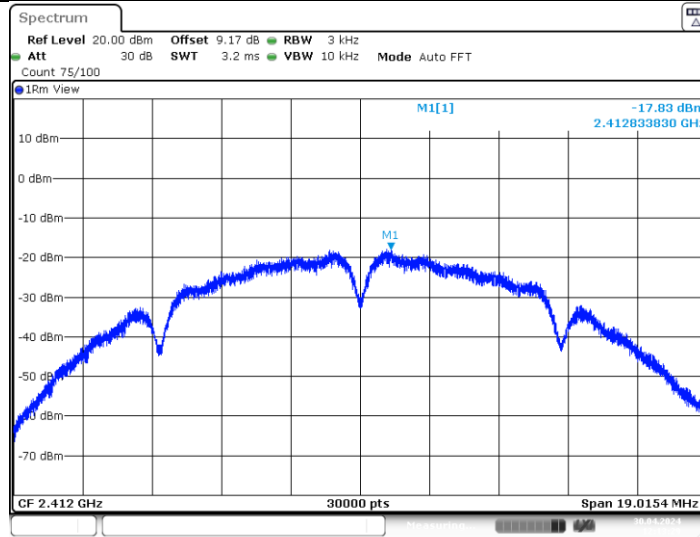


## APPENDIXH - POWER SPECTRAL DENSITY

| TestMode  | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|----------------|----------------------|-----------------|---------|
| 11B       | 2412           | -17.83               | ≤8.00           | PASS    |
|           | 2437           | -18.27               | ≤8.00           | PASS    |
|           | 2462           | -18.80               | ≤8.00           | PASS    |
| 11G       | 2412           | -20.02               | ≤8.00           | PASS    |
|           | 2437           | -20.36               | ≤8.00           | PASS    |
|           | 2462           | -20.49               | ≤8.00           | PASS    |
| 11N20SISO | 2412           | -20.03               | ≤8.00           | PASS    |
|           | 2437           | -20.46               | ≤8.00           | PASS    |
|           | 2462           | -19.89               | ≤8.00           | PASS    |
| 11N40SISO | 2422           | -21.23               | ≤8.00           | PASS    |
|           | 2437           | -21.93               | ≤8.00           | PASS    |
|           | 2452           | -20.16               | ≤8.00           | PASS    |

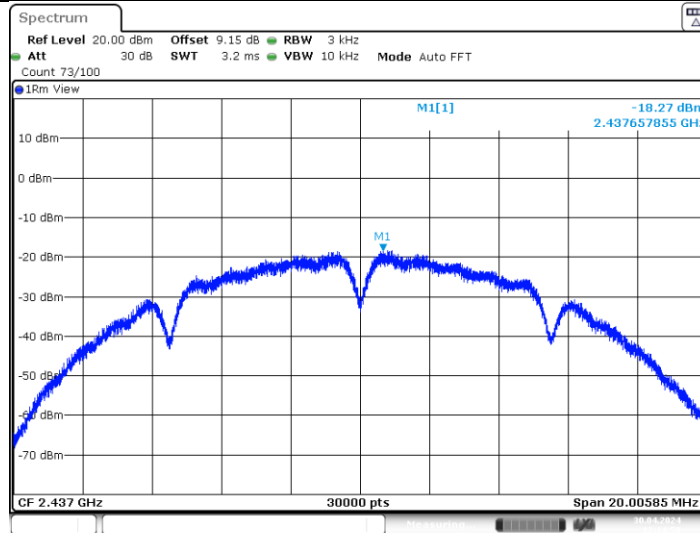
# Test Graphs

11B\_Ant1\_2412



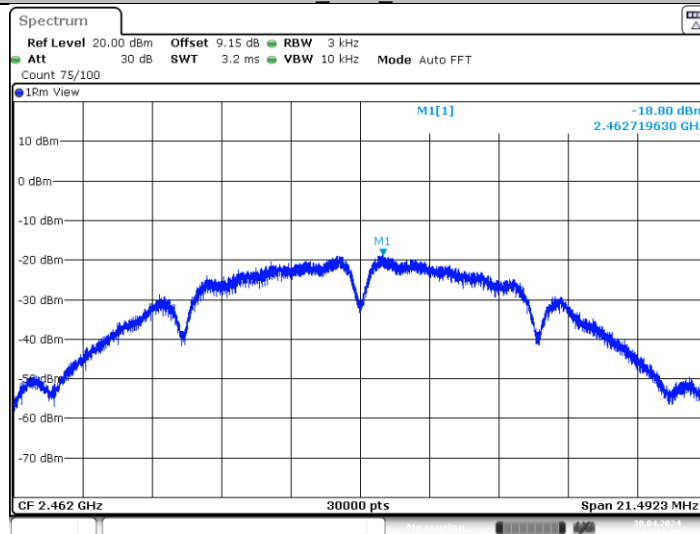
Date: 30.APR.2024 12:13:29

11B\_Ant1\_2437



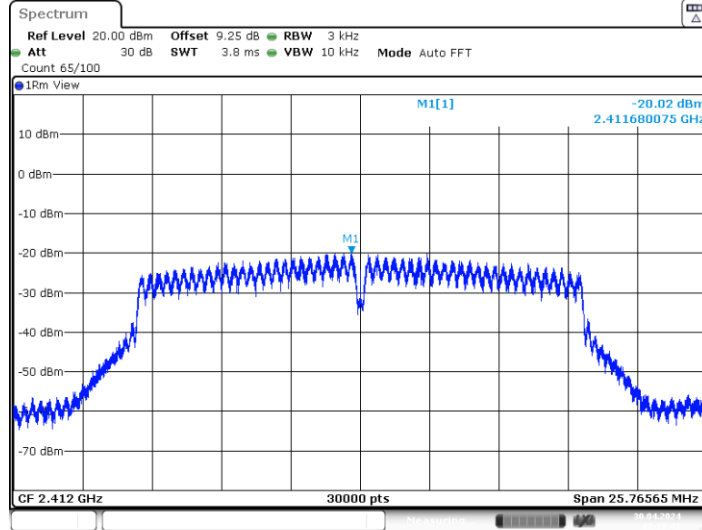
Date: 30.APR.2024 12:14:50

11B\_Ant1\_2462



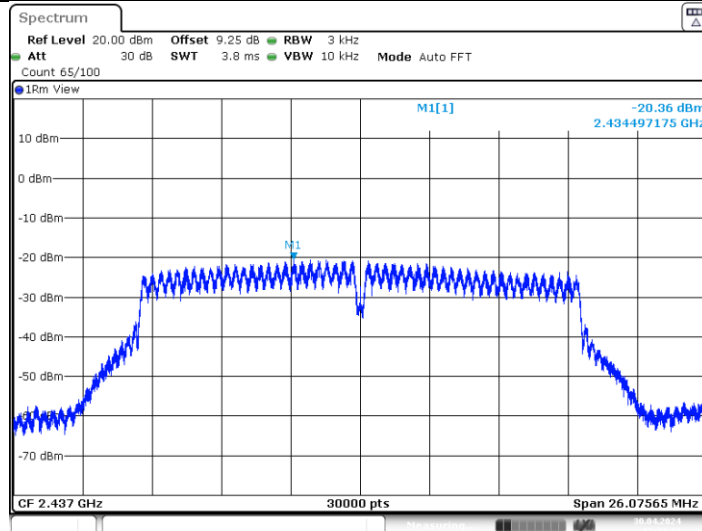
Date: 30.APR.2024 12:16:50

## 11G\_Ant1\_2412



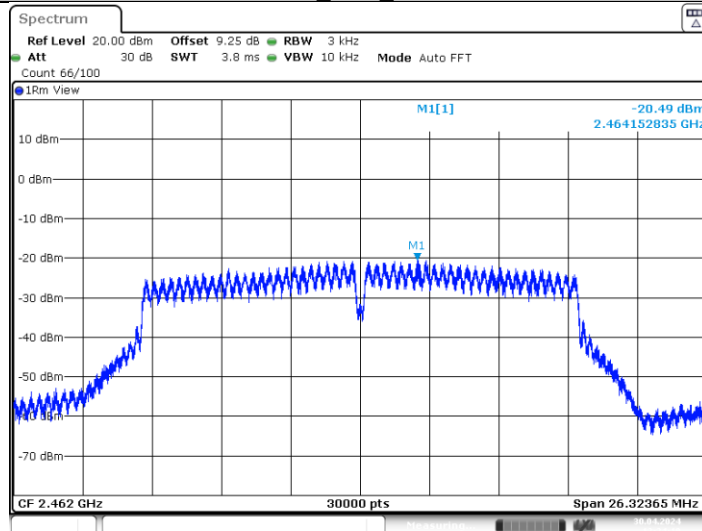
Date: 30.APR.2024 12:19:41

## 11G\_Ant1\_2437



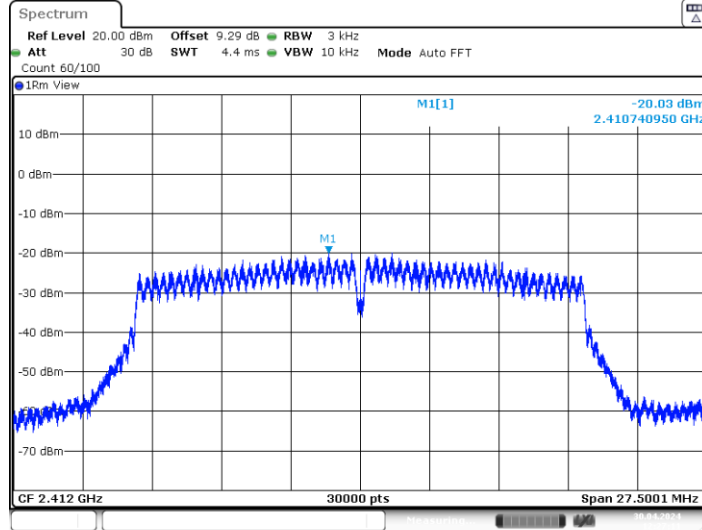
Date: 30.APR.2024 12:22:31

## 11G\_Ant1\_2462



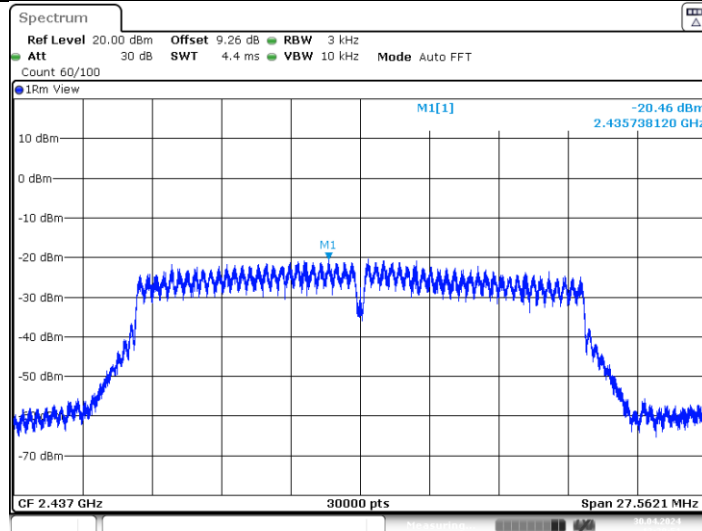
Date: 30.APR.2024 12:24:19

## 11N20SISO\_Ant1\_2412



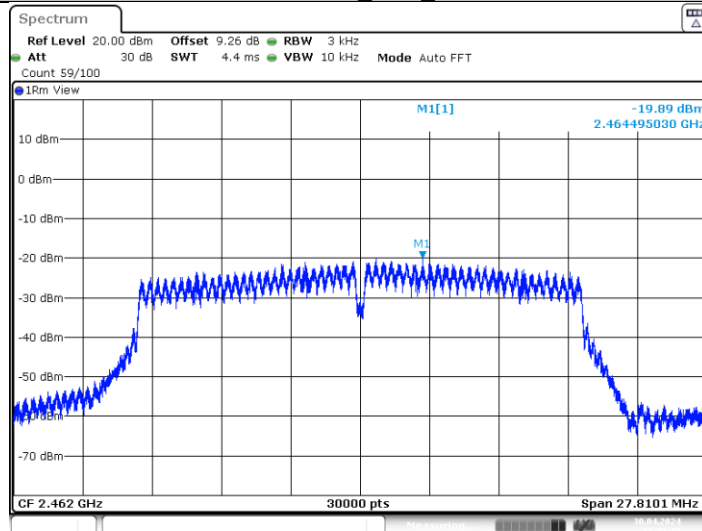
Date: 30.APR.2024 12:27:12

## 11N20SISO\_Ant1\_2437

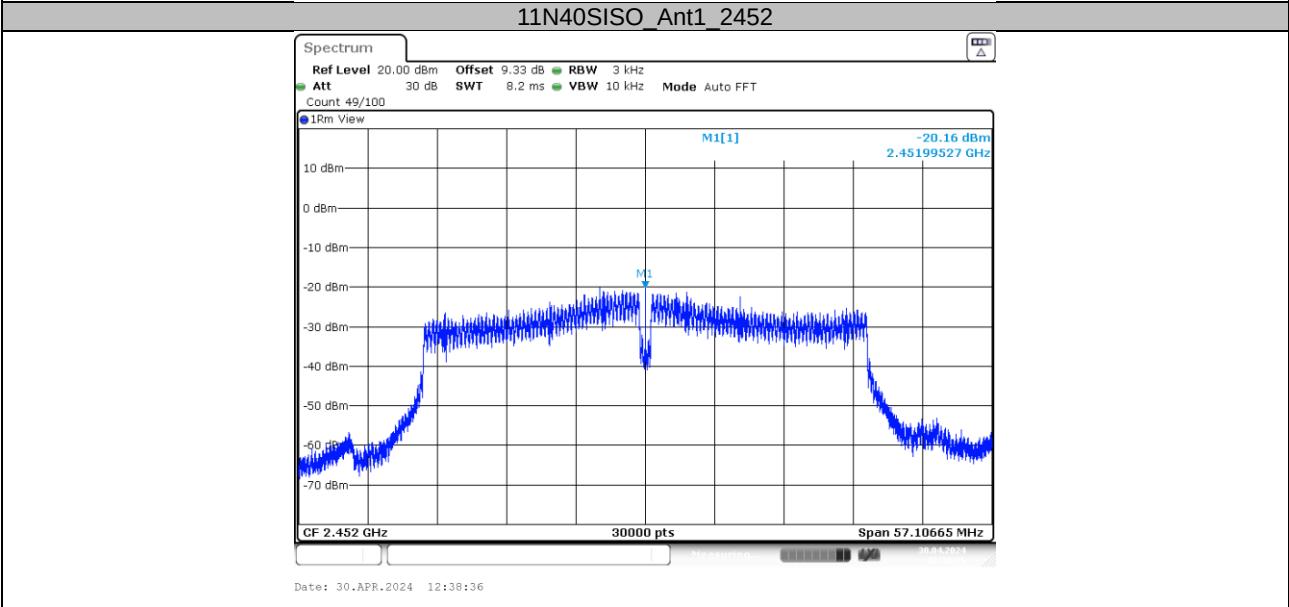
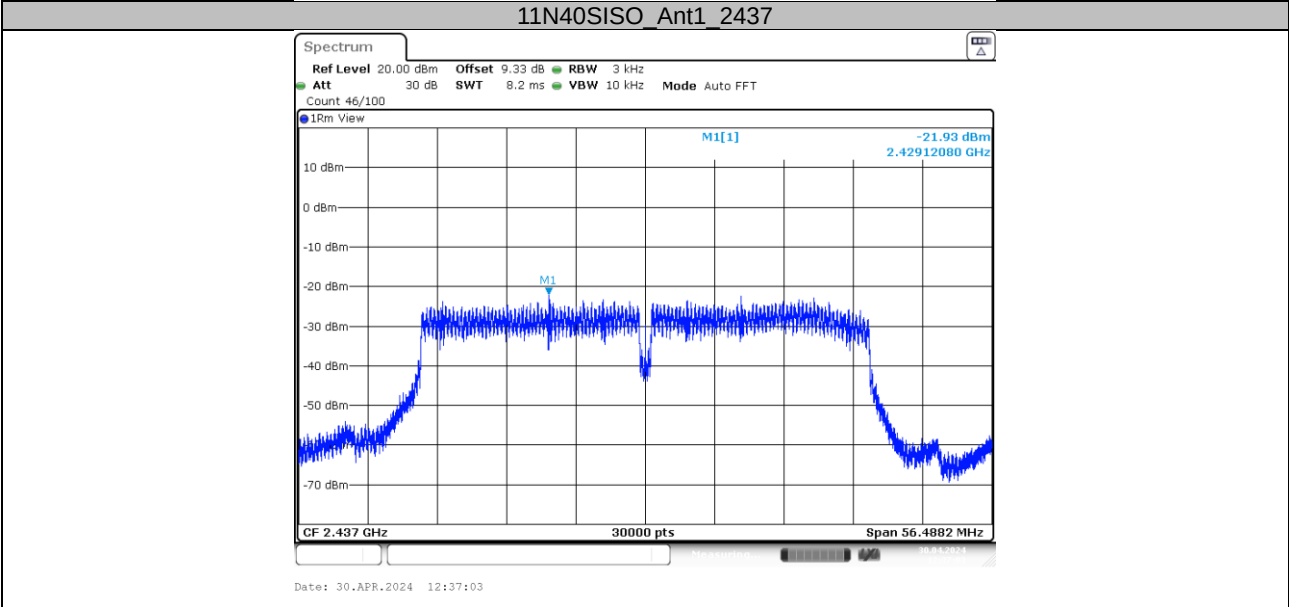
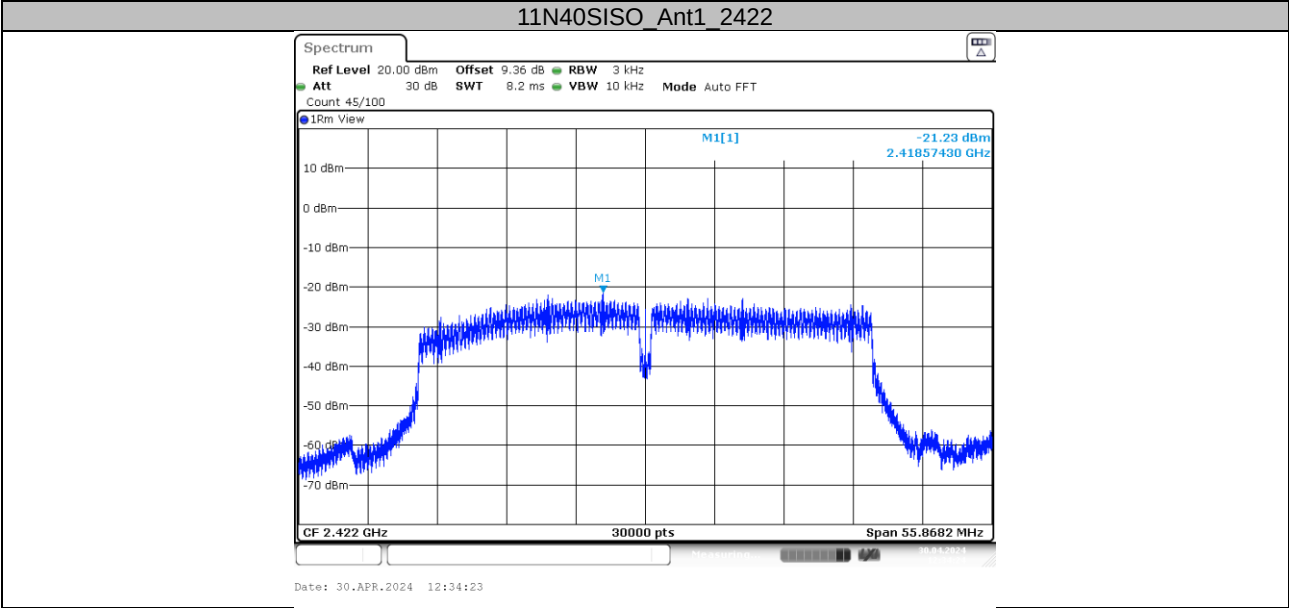


Date: 30.APR.2024 12:29:52

## 11N20SISO\_Ant1\_2462



Date: 30.APR.2024 12:31:23



End of Test Report