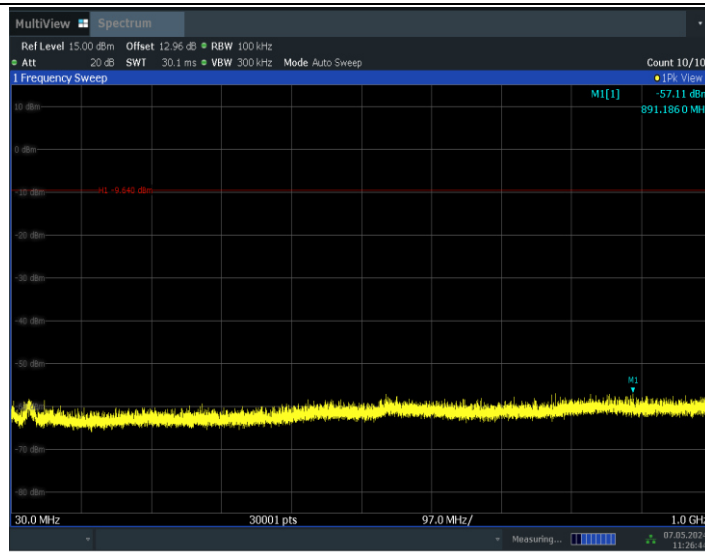
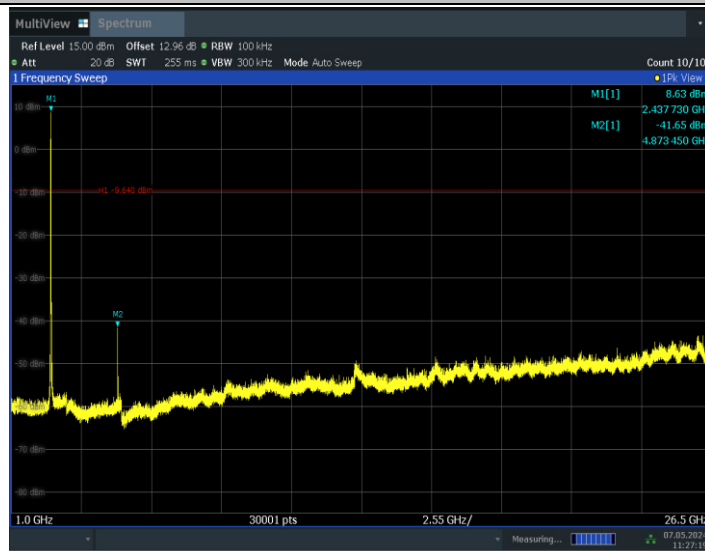




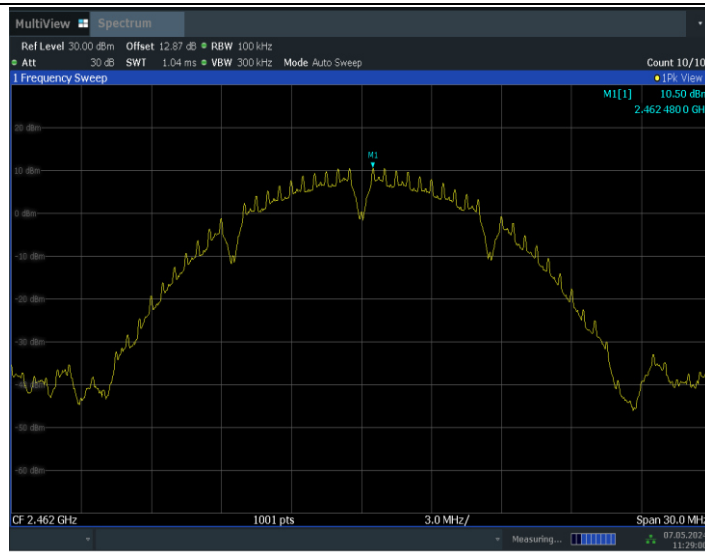
11:26:44 07.05.2024

11B\_Ant1\_2437\_1000~26500



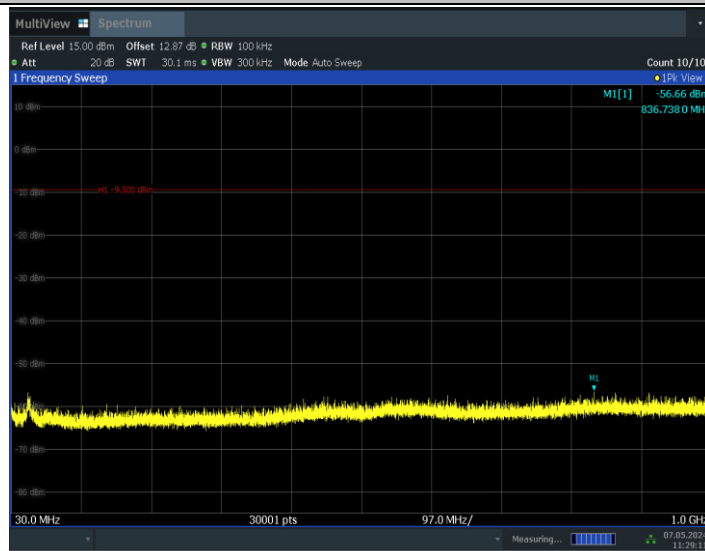
11:27:20 07.05.2024

11B\_Ant1\_2462\_0~Reference



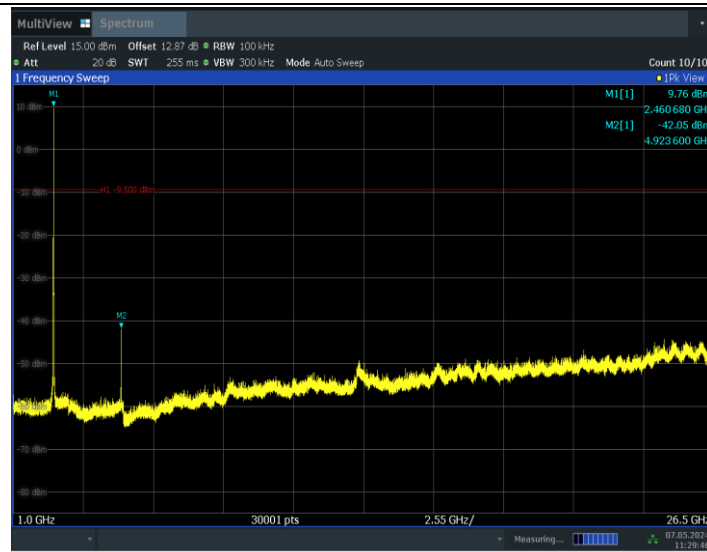
11:29:00 07.05.2024

11B\_Ant1\_2462\_30~1000



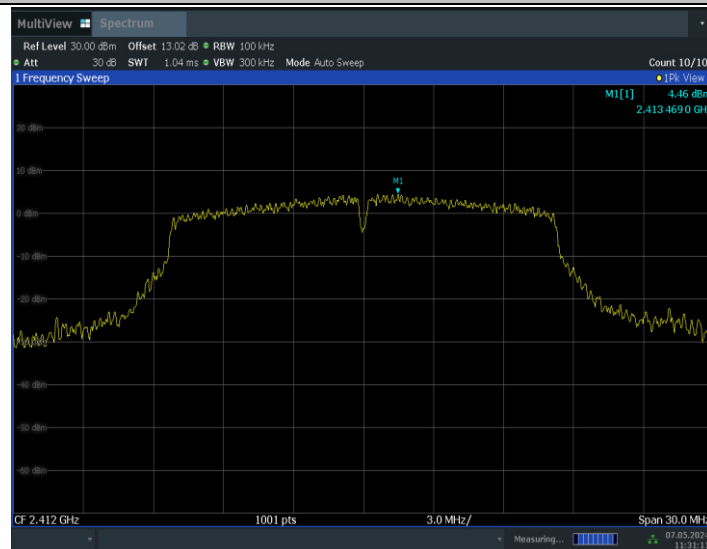
11:29:11 07.05.2024

11B\_Ant1\_2462\_1000~26500



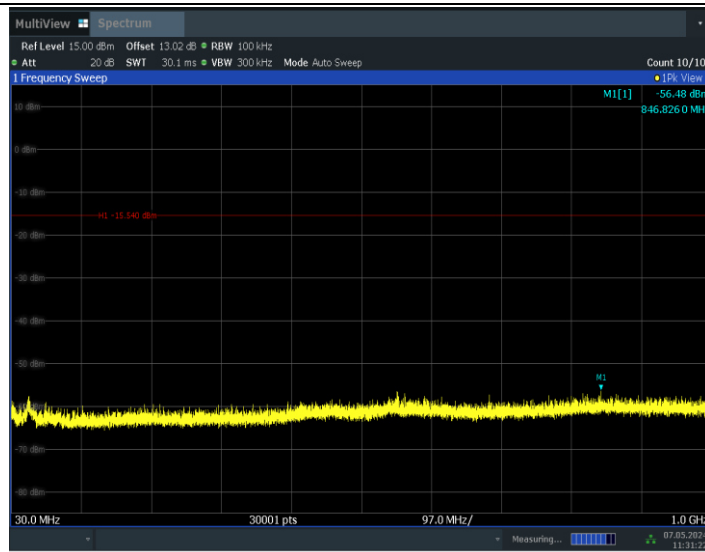
11:29:47 07.05.2024

11G\_Ant1\_2412\_0~Reference



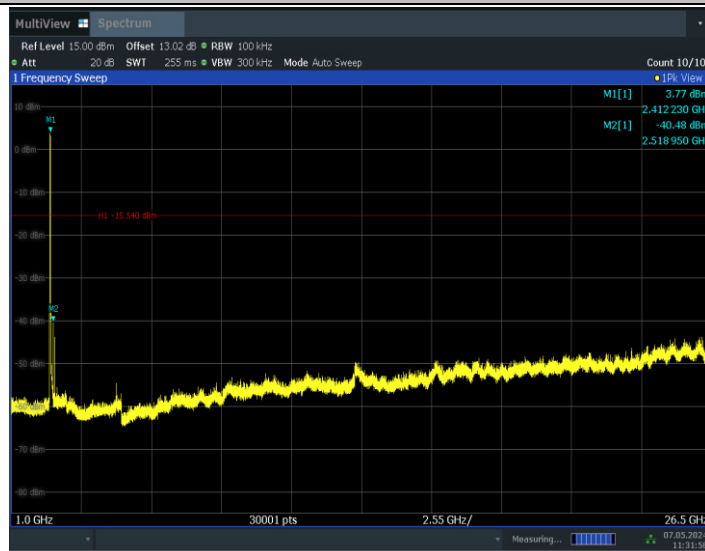
11:31:12 07.05.2024

11G\_Ant1\_2412\_30~1000



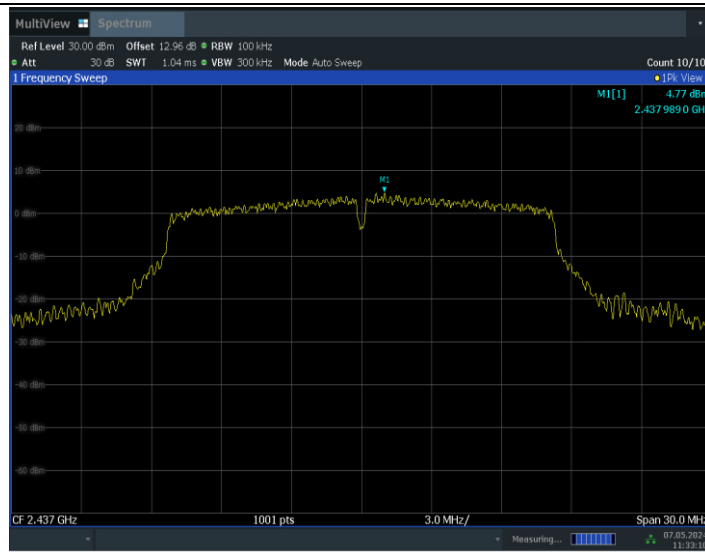
11:31:22 07.05.2024

11G\_Ant1\_2412\_1000~26500



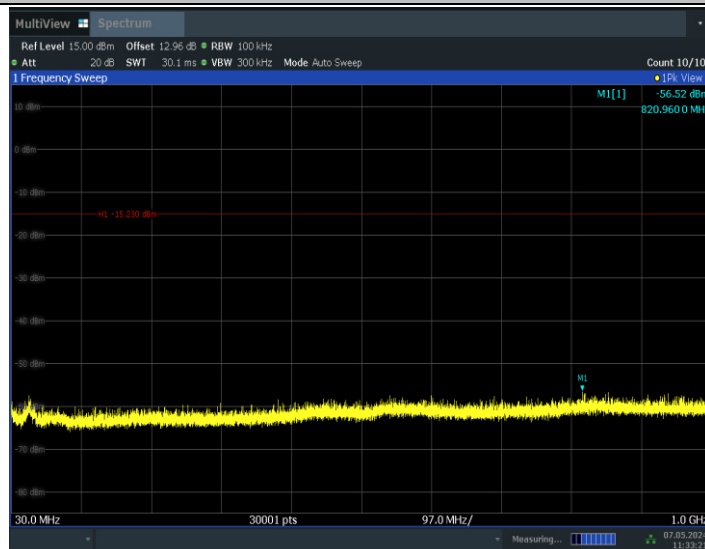
11:31:58 07.05.2024

11G\_Ant1\_2437\_0~Reference



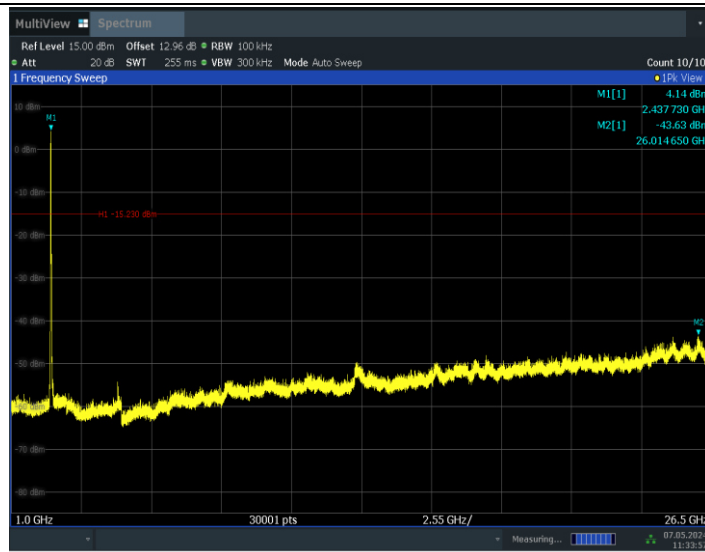
11:33:11 07.05.2024

11G\_Ant1\_2437\_30~1000

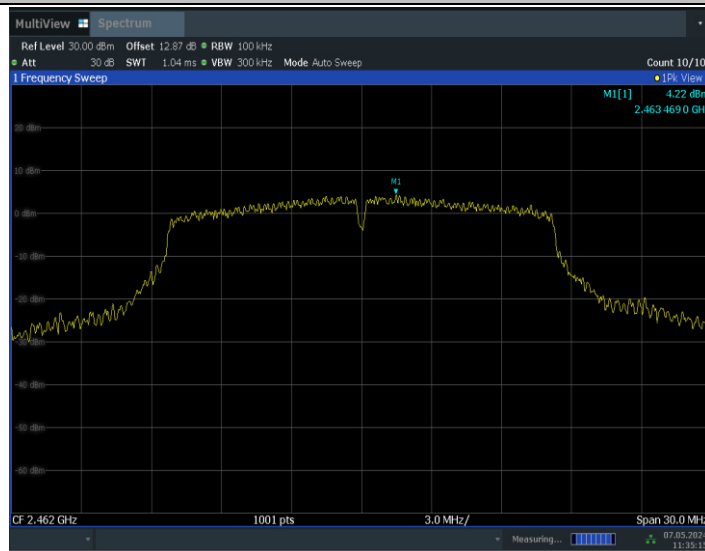


11:33:22 07.05.2024

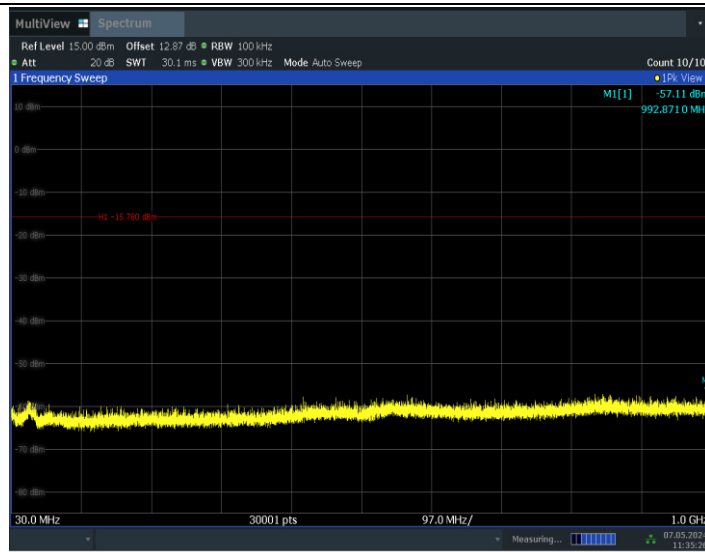
11G\_Ant1\_2437\_1000~26500



11G\_Ant1\_2462\_0~Reference

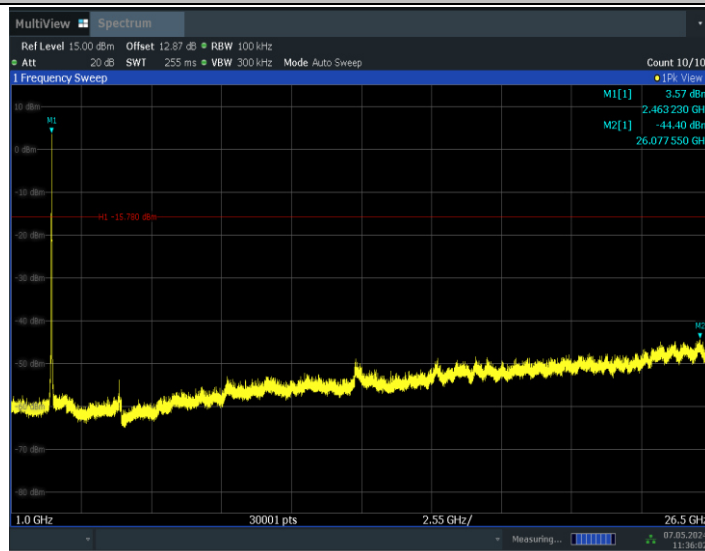


11G\_Ant1\_2462\_30~1000



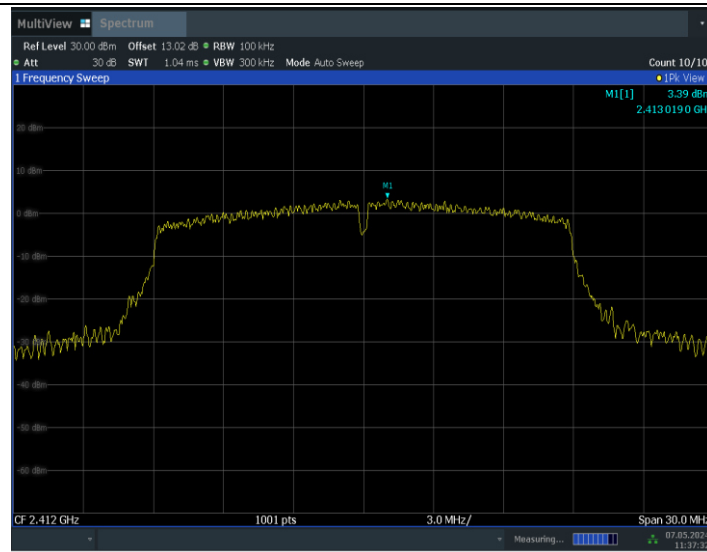
11:35:26 07.05.2024

11G\_Ant1\_2462\_1000~26500



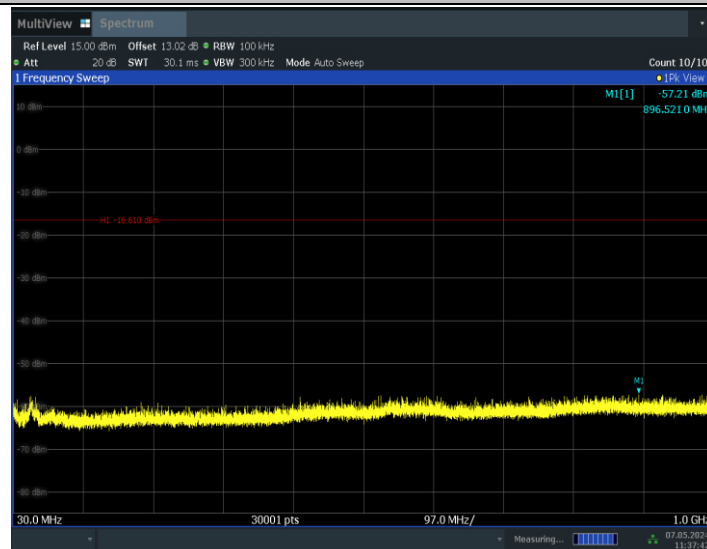
11:36:02 07.05.2024

11N20SISO\_Ant1\_2412\_0~Reference



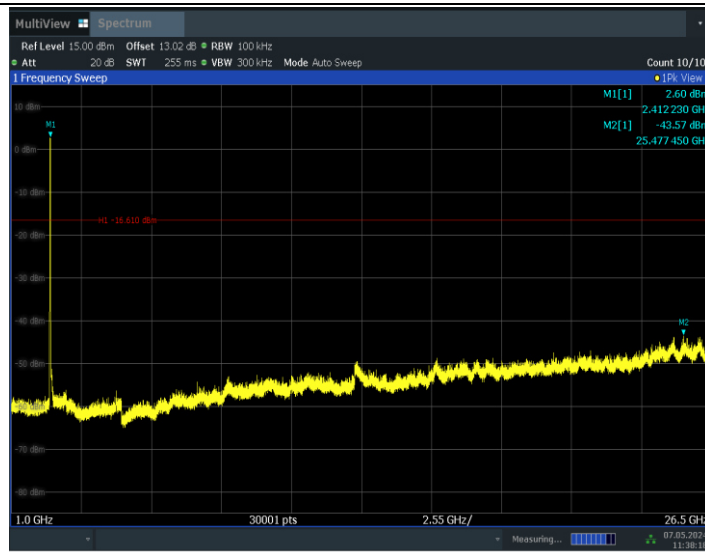
11:37:32 07.05.2024

11N20SISO\_Ant1\_2412\_30~1000

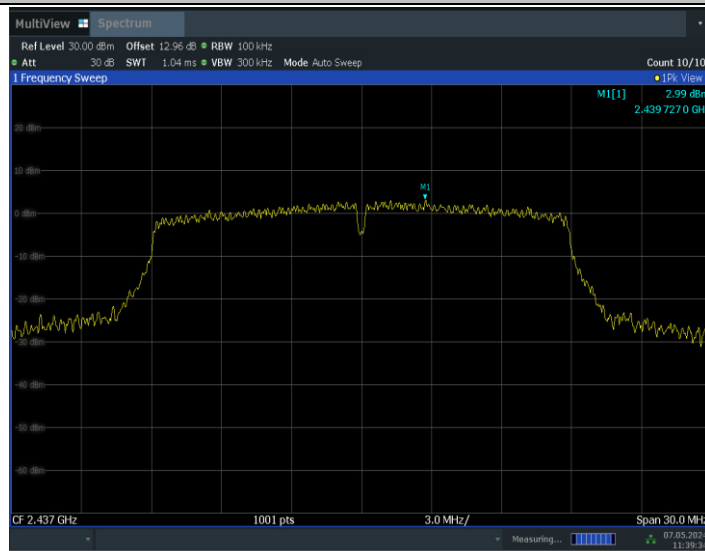


11:37:43 07.05.2024

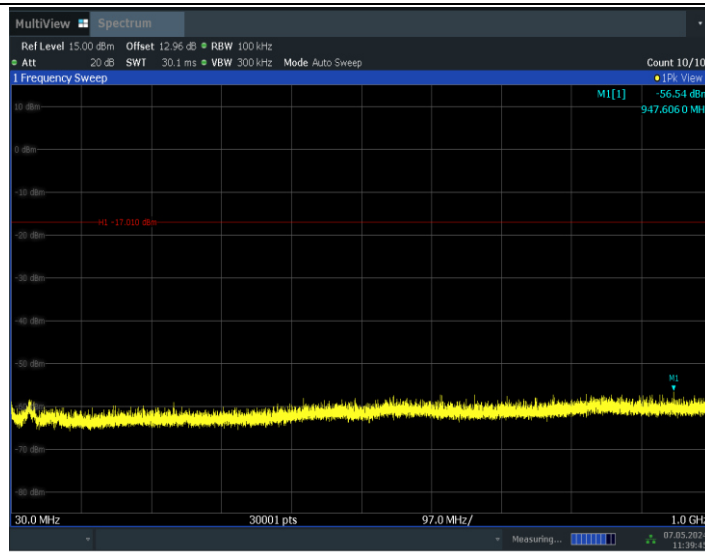
11N20SISO\_Ant1\_2412\_1000~26500



11N20SISO\_Ant1\_2437\_0~Reference

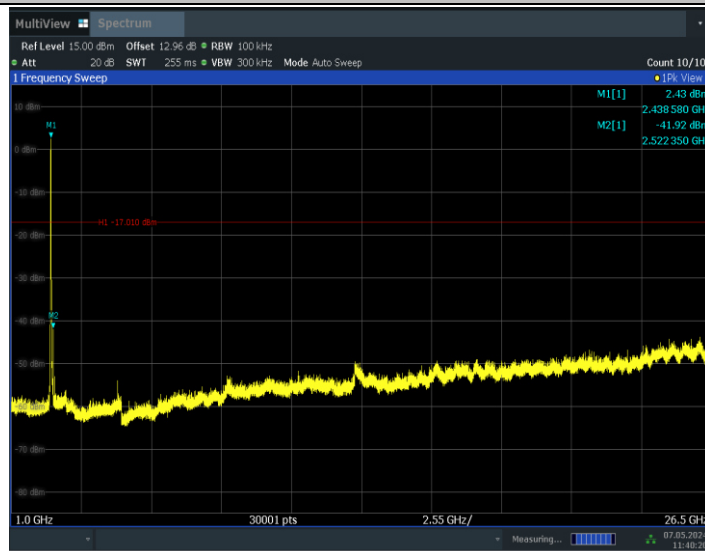


11N20SISO\_Ant1\_2437\_30~1000



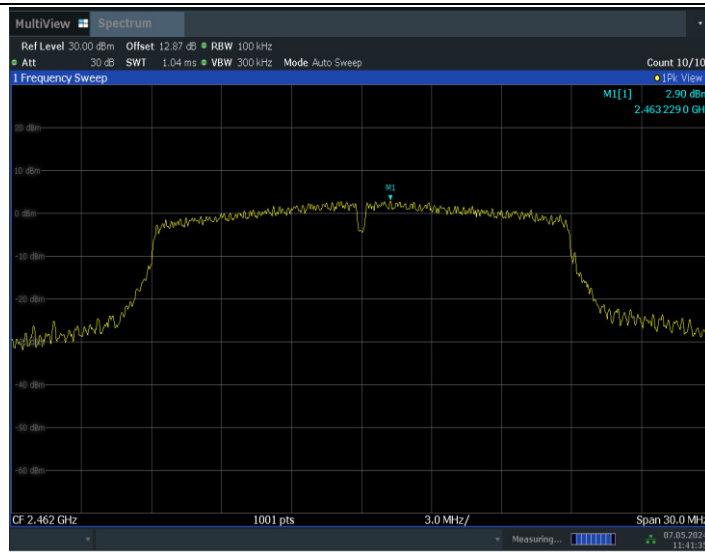
11:39:45 07.05.2024

11N20SISO\_Ant1\_2437\_1000~26500



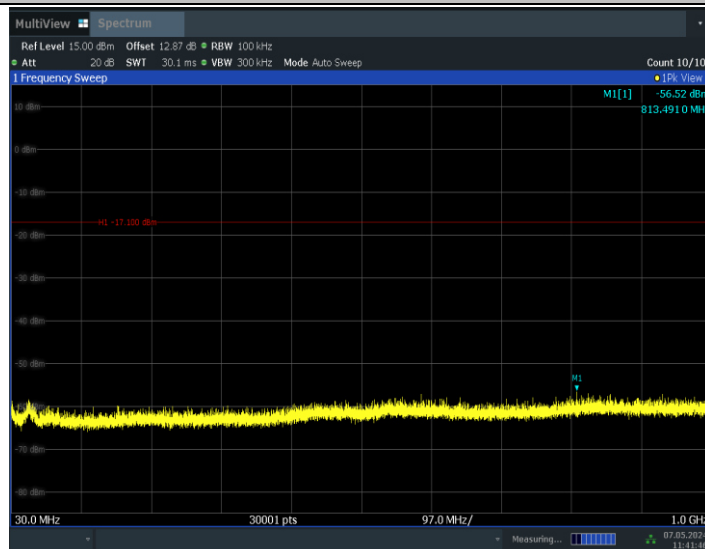
11:40:21 07.05.2024

11N20SISO\_Ant1\_2462\_0~Reference



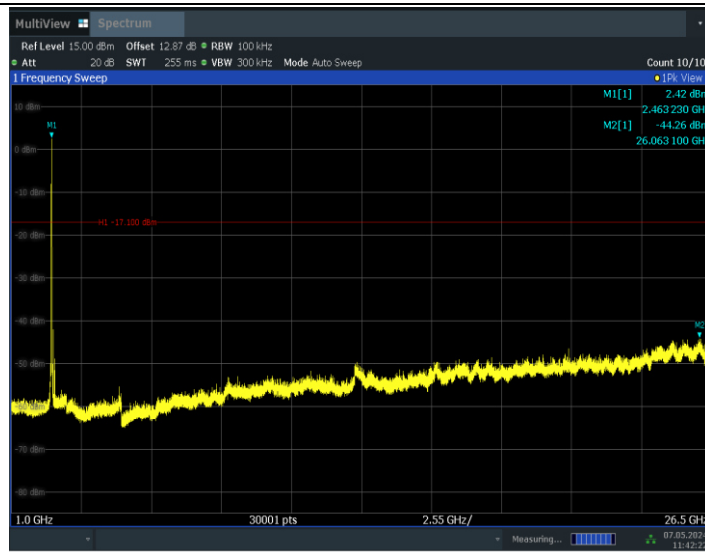
11:41:36 07.05.2024

11N20SISO\_Ant1\_2462\_30~1000



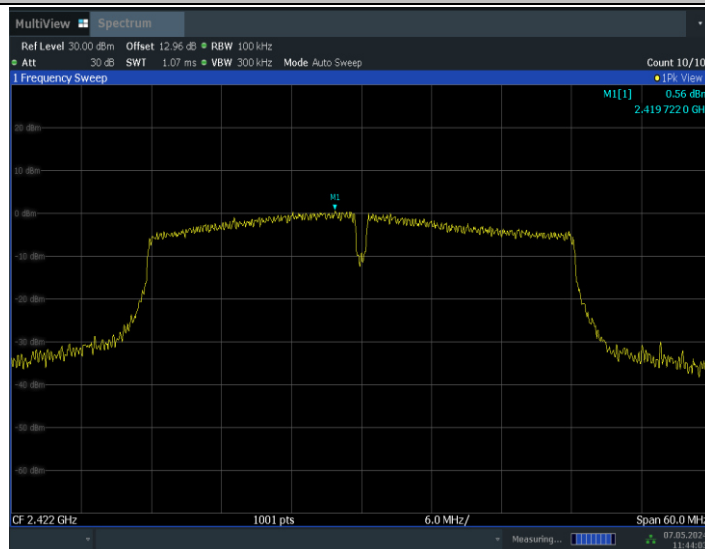
11:41:46 07.05.2024

11N20SISO\_Ant1\_2462\_1000~26500



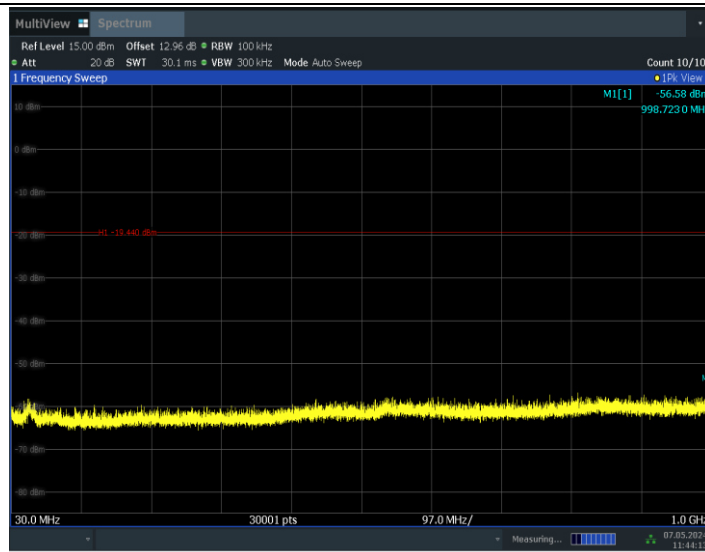
11:42:23 07.05.2024

11N40SISO\_Ant1\_2422\_0~Reference



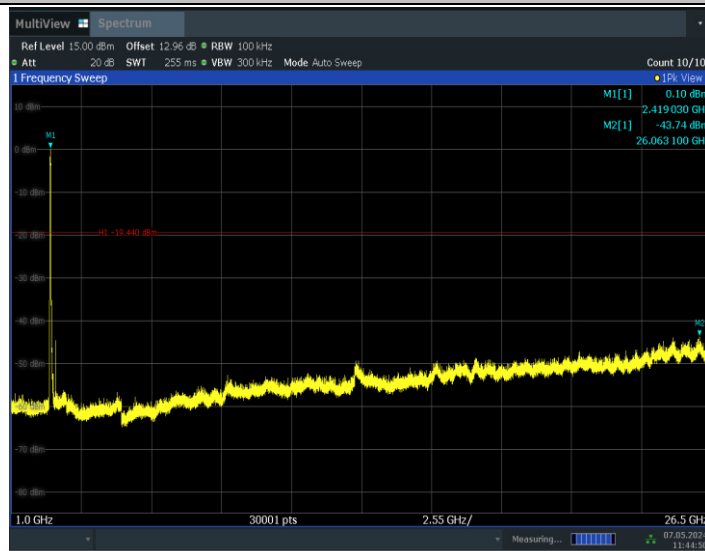
11:44:03 07.05.2024

11N40SISO\_Ant1\_2422\_30~1000



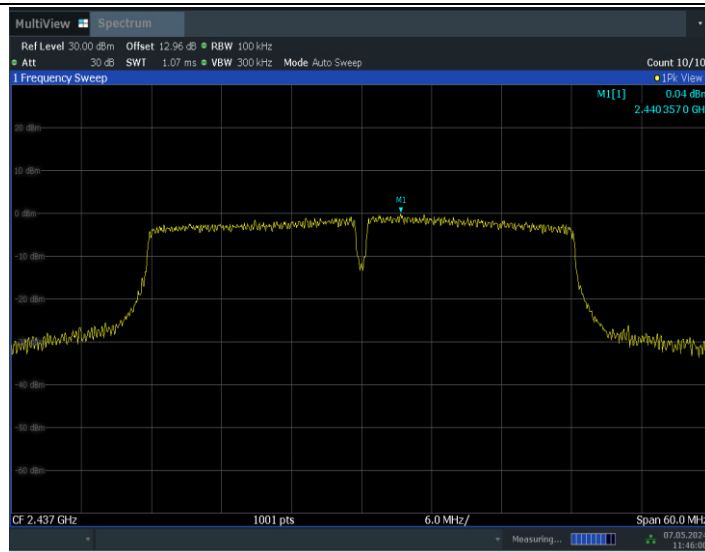
11:44:14 07.05.2024

11N40SISO\_Ant1\_2422\_1000~26500



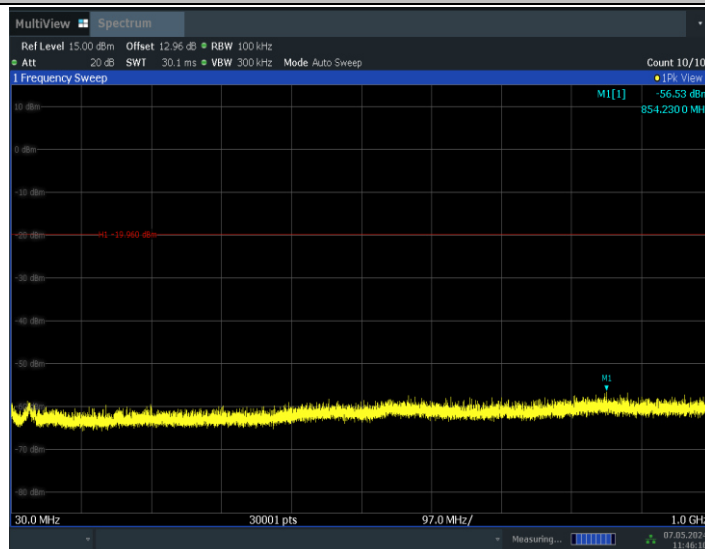
11:44:50 07.05.2024

11N40SISO\_Ant1\_2437\_0~Reference



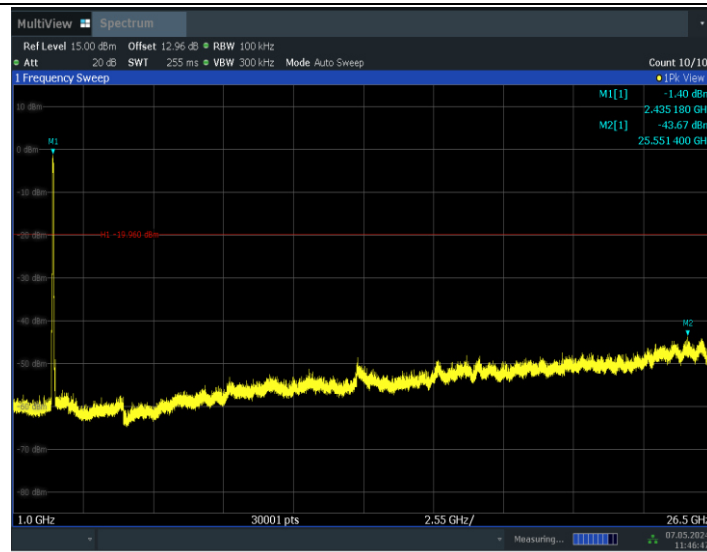
11:46:00 07.05.2024

11N40SISO\_Ant1\_2437\_30~1000

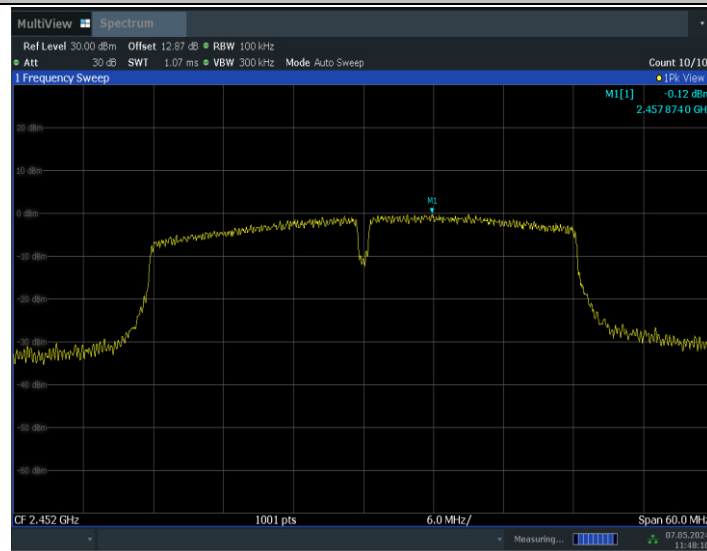


11:46:11 07.05.2024

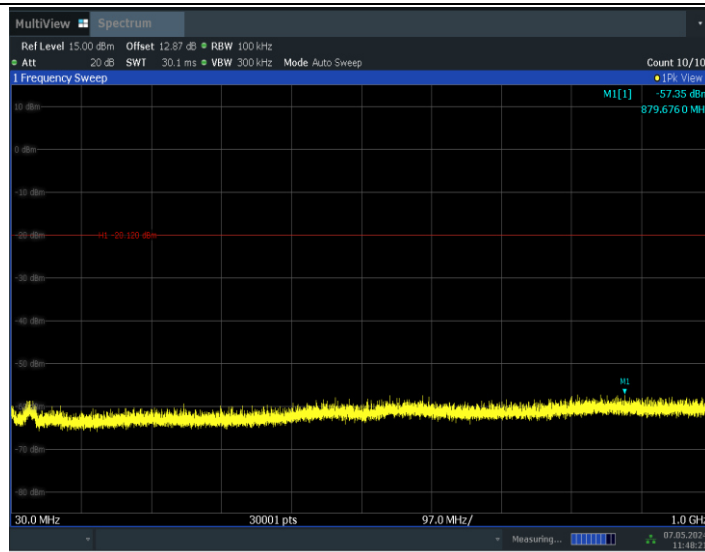
11N40SISO\_Ant1\_2437\_1000~26500



11N40SISO\_Ant1\_2452\_0~Reference

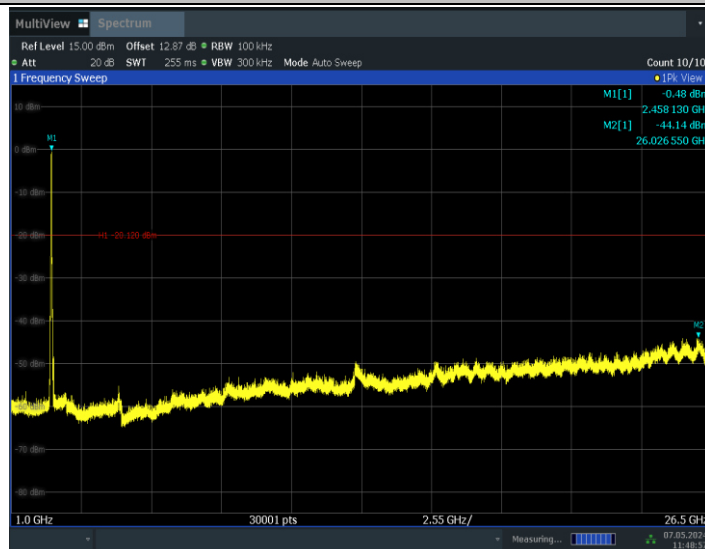


11N40SISO\_Ant1\_2452\_30~1000



11:48:22 07.05.2024

11N40SISO\_Ant1\_2452\_1000~26500



11:48:58 07.05.2024

Conclusion: Pass

## A.7. Radiated Unwanted Emission

### Limits

#### Measurement Limit

| Standard                               | Limit                        |
|----------------------------------------|------------------------------|
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dB below peak output power |

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

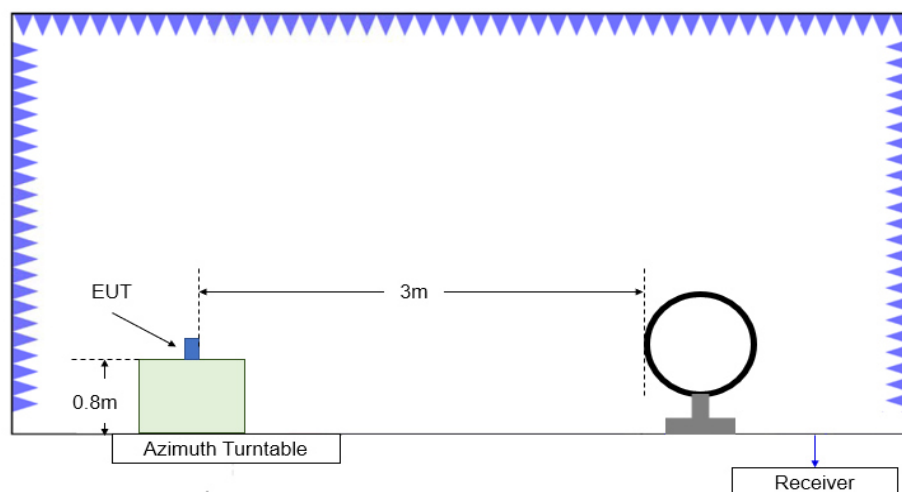
#### Limit in restricted band

| Frequency (MHz) | Field strength( $\mu\text{V/m}$ ) | Measurement distance (m) |
|-----------------|-----------------------------------|--------------------------|
| 0.009 - 0.490   | $2400/F(\text{kHz})$              | 300                      |
| 0.490 - 1.705   | $24000/F(\text{kHz})$             | 30                       |
| 1.705 – 30.0    | 30                                | 30                       |

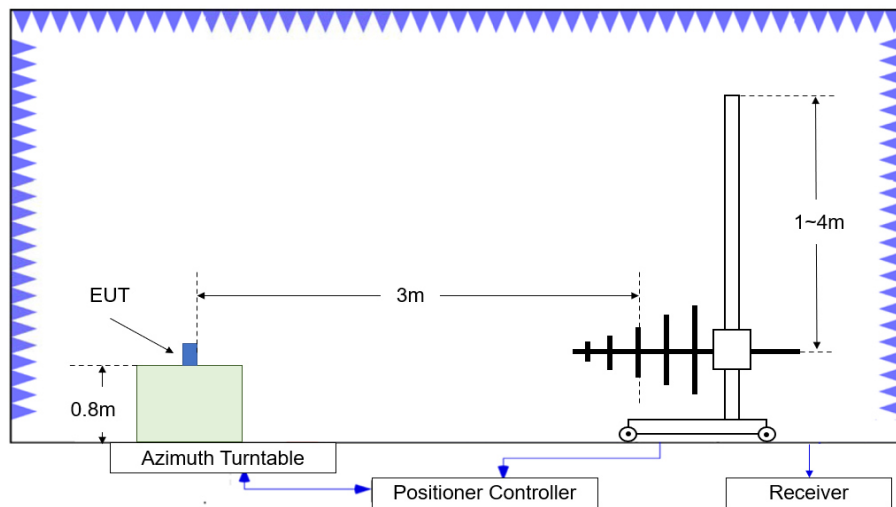
| Frequency of emission (MHz) | Field strength ( $\mu\text{V/m}$ ) | Field strength (dB $\mu\text{V/m}$ ) | Measurement distance (m) |
|-----------------------------|------------------------------------|--------------------------------------|--------------------------|
| 30-88                       | 100                                | 40                                   | 3                        |
| 88-216                      | 150                                | 43.5                                 | 3                        |
| 216-960                     | 200                                | 46                                   | 3                        |
| Above 960                   | 500                                | 54                                   | 3                        |

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

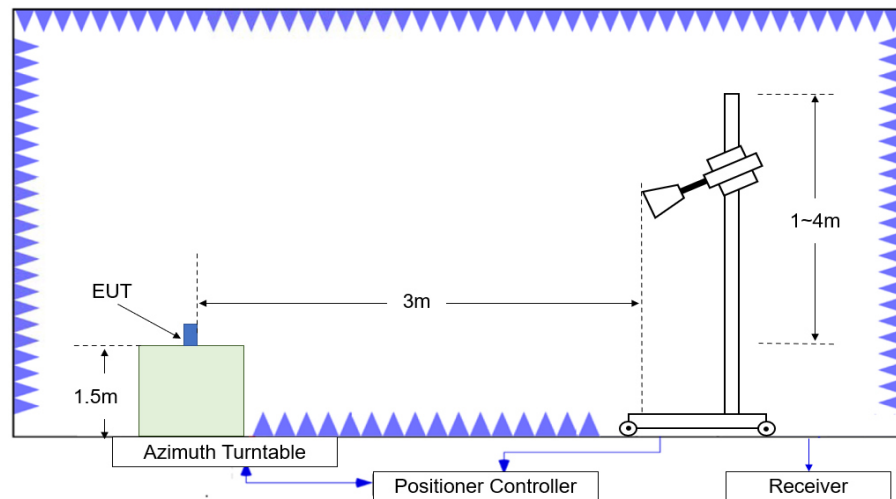
### Test setup



**Figure A.2.1. Test Site Diagram (9kHz-30MHz)**



**Figure A.2.2. Test Site Diagram (30MHz-1GHz)**



**Figure A.2.3. Test Site Diagram (1GHz-40GHz)**

### Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10.

#### Test setting

| Frequency of emission (MHz) | RBW/VBW       | Sweep Time(s) |
|-----------------------------|---------------|---------------|
| 30-1000                     | 100kHz/300kHz | 5             |
| 1000-3000                   | 1MHz/3MHz     | 15            |
| 3000-18000                  | 1MHz/3MHz     | 40            |
| 18000-26500                 | 1MHz/3MHz     | 20            |

### Sample Calculation

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

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The measurement results are obtained as described below:

Result= $P_{\text{Mea}}+A_{\text{Rpl}}= P_{\text{Mea}}+\text{Cable Loss}+\text{Antenna Factor}$

**Test note**

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10<sup>th</sup> harmonic of highest fundamental frequency or 40GHz, whichever is lower.

### Test Result

#### **Peak**

#### **802.11b**

#### **Ch1**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17603.500       | 50.78                       | -29.60          | 45.10                 | 35.18                   | 74.00          | 23.22       | V                  |
| 13743.000       | 46.46                       | -31.00          | 41.10                 | 36.36                   | 74.00          | 27.54       | V                  |
| 4824.000        | 44.06                       | -37.70          | 33.00                 | 48.76                   | 74.00          | 29.94       | H                  |
| 11791.000       | 43.91                       | -32.00          | 39.20                 | 36.71                   | 74.00          | 30.09       | V                  |
| 9394.500        | 42.20                       | -34.10          | 37.90                 | 38.40                   | 74.00          | 31.80       | V                  |
| 2379.700        | 55.27                       | -19.80          | 28.20                 | 46.87                   | 74.00          | 18.73       | H                  |

#### **Ch6**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 4873.500        | 54.96                       | -37.50          | 33.40                 | 59.06                   | 74.00          | 19.04       | H                  |
| 17628.000       | 50.76                       | -29.50          | 45.40                 | 34.86                   | 74.00          | 23.24       | V                  |
| 13728.500       | 47.91                       | -31.00          | 41.10                 | 37.81                   | 74.00          | 26.09       | V                  |
| 12841.500       | 43.87                       | -31.90          | 39.90                 | 35.87                   | 74.00          | 30.13       | V                  |
| 8934.000        | 42.18                       | -33.90          | 37.70                 | 38.38                   | 74.00          | 31.82       | V                  |
| 7405.500        | 41.13                       | -35.10          | 36.60                 | 39.63                   | 74.00          | 32.87       | H                  |

#### **Ch11**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17997.500       | 51.13                       | -29.40          | 46.00                 | 34.53                   | 74.00          | 22.87       | H                  |
| 13762.500       | 47.49                       | -30.90          | 41.20                 | 37.19                   | 74.00          | 26.51       | H                  |
| 4923.500        | 44.40                       | -37.60          | 33.30                 | 48.70                   | 74.00          | 29.60       | H                  |
| 12780.500       | 43.25                       | -31.50          | 39.80                 | 34.95                   | 74.00          | 30.75       | V                  |
| 9486.000        | 41.97                       | -34.60          | 37.70                 | 38.87                   | 74.00          | 32.03       | V                  |
| 2487.600        | 58.12                       | -19.70          | 28.20                 | 49.62                   | 74.00          | 15.88       | H                  |

**802.11g**
**Ch1**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17613.500       | 50.43                       | -29.60          | 45.10                 | 34.83                   | 74.00          | 23.57       | H                  |
| 13731.000       | 47.31                       | -31.00          | 41.10                 | 37.21                   | 74.00          | 26.69       | H                  |
| 12572.000       | 44.34                       | -31.20          | 39.20                 | 36.34                   | 74.00          | 29.66       | H                  |
| 9493.500        | 42.71                       | -34.60          | 37.70                 | 39.61                   | 74.00          | 31.29       | H                  |
| 7703.000        | 41.69                       | -35.90          | 36.30                 | 41.29                   | 74.00          | 32.31       | H                  |
| 2388.100        | 72.37                       | -19.80          | 28.20                 | 63.97                   | 74.00          | 1.63        | H                  |

**Ch6**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17614.000       | 50.81                       | -29.60          | 45.10                 | 35.21                   | 74.00          | 23.19       | V                  |
| 13717.000       | 46.96                       | -31.00          | 41.10                 | 36.86                   | 74.00          | 27.04       | V                  |
| 4873.000        | 46.76                       | -37.50          | 33.40                 | 50.86                   | 74.00          | 27.24       | H                  |
| 12905.500       | 43.47                       | -31.50          | 40.00                 | 34.97                   | 74.00          | 30.53       | V                  |
| 9582.500        | 43.00                       | -34.30          | 37.50                 | 39.80                   | 74.00          | 31.00       | V                  |
| 7315.000        | 41.34                       | -35.40          | 36.60                 | 40.14                   | 74.00          | 32.66       | H                  |

**Ch11**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17981.000       | 50.93                       | -29.40          | 46.00                 | 34.33                   | 74.00          | 23.07       | H                  |
| 13746.500       | 46.84                       | -31.00          | 41.10                 | 36.74                   | 74.00          | 27.16       | H                  |
| 4916.500        | 44.58                       | -37.60          | 33.30                 | 48.88                   | 74.00          | 29.42       | H                  |
| 11811.000       | 43.65                       | -32.00          | 39.20                 | 36.45                   | 74.00          | 30.35       | V                  |
| 7604.500        | 42.53                       | -35.60          | 36.30                 | 41.83                   | 74.00          | 31.47       | V                  |
| 2485.200        | 67.76                       | -19.70          | 28.20                 | 59.26                   | 74.00          | 6.24        | H                  |

**802.11n-HT20**
**Ch1**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17992.000       | 50.36                       | -29.40          | 46.00                 | 33.76                   | 74.00          | 23.64       | V                  |
| 13946.500       | 47.85                       | -30.60          | 41.40                 | 37.05                   | 74.00          | 26.15       | V                  |
| 12753.000       | 44.77                       | -31.80          | 39.60                 | 36.87                   | 74.00          | 29.23       | V                  |
| 8881.000        | 42.27                       | -34.80          | 37.80                 | 39.27                   | 74.00          | 31.73       | V                  |
| 4823.000        | 41.60                       | -37.70          | 33.00                 | 46.30                   | 74.00          | 32.40       | H                  |
| 2389.700        | 72.64                       | -19.80          | 28.20                 | 64.24                   | 74.00          | 1.36        | H                  |

**Ch6**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17618.000       | 51.23                       | -29.60          | 45.10                 | 35.63                   | 74.00          | 22.77       | V                  |
| 4873.000        | 48.90                       | -37.50          | 33.40                 | 53.00                   | 74.00          | 25.10       | H                  |
| 13718.000       | 47.06                       | -31.00          | 41.10                 | 36.96                   | 74.00          | 26.94       | V                  |
| 12655.000       | 43.75                       | -31.80          | 39.40                 | 36.15                   | 74.00          | 30.25       | V                  |
| 9482.500        | 42.30                       | -34.60          | 37.70                 | 39.20                   | 74.00          | 31.70       | V                  |
| 7198.500        | 41.18                       | -35.40          | 36.20                 | 40.38                   | 74.00          | 32.82       | V                  |

**Ch11**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17605.000       | 50.22                       | -29.60          | 45.10                 | 34.62                   | 74.00          | 23.78       | H                  |
| 13697.000       | 47.04                       | -31.00          | 41.00                 | 37.04                   | 74.00          | 26.96       | V                  |
| 11884.000       | 44.21                       | -32.40          | 39.10                 | 37.51                   | 74.00          | 29.79       | H                  |
| 4918.500        | 43.47                       | -37.60          | 33.30                 | 47.77                   | 74.00          | 30.53       | H                  |
| 9205.000        | 42.41                       | -34.70          | 37.70                 | 39.41                   | 74.00          | 31.59       | V                  |
| 2485.000        | 67.05                       | -19.70          | 28.20                 | 58.55                   | 74.00          | 6.95        | H                  |

### 802.11n-HT40

#### Ch3

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17894.000       | 50.77                       | -29.40          | 46.00                 | 34.17                   | 74.00          | 23.23       | H                  |
| 13760.000       | 47.35                       | -31.00          | 41.10                 | 37.25                   | 74.00          | 26.65       | V                  |
| 12848.500       | 44.09                       | -31.90          | 39.90                 | 36.09                   | 74.00          | 29.91       | H                  |
| 8996.000        | 43.00                       | -34.70          | 37.70                 | 40.00                   | 74.00          | 31.00       | V                  |
| 4842.500        | 42.35                       | -37.70          | 33.00                 | 47.05                   | 74.00          | 31.65       | H                  |
| 2388.900        | 71.02                       | -19.80          | 28.20                 | 62.62                   | 74.00          | 2.98        | H                  |

#### Ch6

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17621.500       | 50.77                       | -29.60          | 45.10                 | 35.17                   | 74.00          | 23.23       | H                  |
| 13616.000       | 46.86                       | -31.30          | 40.90                 | 37.26                   | 74.00          | 27.14       | H                  |
| 12936.500       | 44.07                       | -31.40          | 40.00                 | 35.47                   | 74.00          | 29.93       | V                  |
| 4885.000        | 43.75                       | -37.50          | 33.40                 | 47.85                   | 74.00          | 30.25       | H                  |
| 8985.000        | 42.37                       | -34.70          | 37.70                 | 39.37                   | 74.00          | 31.63       | V                  |
| 7205.500        | 41.33                       | -35.40          | 36.20                 | 40.53                   | 74.00          | 32.67       | V                  |

#### Ch9

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17625.500       | 50.66                       | -29.50          | 45.40                 | 34.76                   | 74.00          | 23.34       | V                  |
| 13714.500       | 47.22                       | -31.00          | 41.10                 | 37.12                   | 74.00          | 26.78       | V                  |
| 12809.500       | 43.67                       | -31.50          | 39.80                 | 35.37                   | 74.00          | 30.33       | V                  |
| 9205.000        | 43.37                       | -34.70          | 37.70                 | 40.37                   | 74.00          | 30.63       | V                  |
| 4904.000        | 43.26                       | -37.60          | 33.30                 | 47.56                   | 74.00          | 30.74       | H                  |
| 2485.100        | 72.39                       | -19.70          | 28.20                 | 63.89                   | 74.00          | 1.61        | H                  |

**Average**
**802.11b**
**Ch1**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 4824.000        | 41.51                       | -37.70          | 33.00                 | 46.21                   | 54.00          | 12.49       | H                  |
| 17496.000       | 41.03                       | -29.20          | 44.50                 | 25.63                   | 54.00          | 12.97       | V                  |
| 13693.500       | 38.18                       | -31.00          | 41.00                 | 28.18                   | 54.00          | 15.82       | H                  |
| 12654.000       | 34.17                       | -31.80          | 39.40                 | 26.57                   | 54.00          | 19.83       | V                  |
| 9488.000        | 32.45                       | -34.60          | 37.70                 | 29.35                   | 54.00          | 21.55       | V                  |
| 2383.500        | 45.20                       | -19.80          | 28.20                 | 36.80                   | 54.00          | 8.80        | H                  |

**Ch6**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 4874.000        | 52.86                       | -37.50          | 33.40                 | 56.96                   | 54.00          | 1.14        | H                  |
| 17991.500       | 41.16                       | -29.40          | 46.00                 | 24.56                   | 54.00          | 12.84       | H                  |
| 13753.500       | 37.30                       | -31.00          | 41.10                 | 27.20                   | 54.00          | 16.70       | V                  |
| 11898.000       | 34.01                       | -32.40          | 39.10                 | 27.31                   | 54.00          | 19.99       | V                  |
| 9000.000        | 32.28                       | -34.70          | 37.70                 | 29.28                   | 54.00          | 21.72       | H                  |
| 7310.500        | 32.23                       | -35.40          | 36.60                 | 31.03                   | 54.00          | 21.77       | H                  |

**Ch11**

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 4924.000        | 41.66                       | -37.60          | 33.30                 | 45.96                   | 54.00          | 12.34       | H                  |
| 17603.500       | 40.88                       | -29.60          | 45.10                 | 25.28                   | 54.00          | 13.12       | V                  |
| 13694.500       | 37.66                       | -31.00          | 41.00                 | 27.66                   | 54.00          | 16.34       | V                  |
| 12667.000       | 35.08                       | -31.80          | 39.40                 | 27.48                   | 54.00          | 18.92       | V                  |
| 8989.000        | 32.39                       | -34.70          | 37.70                 | 29.39                   | 54.00          | 21.61       | H                  |
| 2487.600        | 50.62                       | -19.70          | 28.20                 | 42.12                   | 54.00          | 3.38        | H                  |

## 802.11g

### Ch1

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17971.500       | 41.14                       | -29.40          | 46.00                 | 24.54                   | 54.00          | 12.86       | V                  |
| 13716.500       | 37.99                       | -31.00          | 41.10                 | 27.89                   | 54.00          | 16.01       | H                  |
| 12282.000       | 34.39                       | -32.10          | 39.00                 | 27.49                   | 54.00          | 19.61       | H                  |
| 8992.000        | 32.68                       | -34.70          | 37.70                 | 29.68                   | 54.00          | 21.32       | V                  |
| 7306.000        | 31.79                       | -35.40          | 36.60                 | 30.59                   | 54.00          | 22.21       | V                  |
| 2389.200        | 52.26                       | -19.80          | 28.20                 | 43.86                   | 54.00          | 1.74        | H                  |

### Ch6

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17499.500       | 40.98                       | -29.20          | 44.50                 | 25.58                   | 54.00          | 13.02       | V                  |
| 4877.000        | 37.98                       | -37.50          | 33.40                 | 42.08                   | 54.00          | 16.02       | H                  |
| 13679.500       | 37.65                       | -31.00          | 41.00                 | 27.65                   | 54.00          | 16.35       | H                  |
| 12775.000       | 34.57                       | -31.50          | 39.80                 | 26.27                   | 54.00          | 19.43       | H                  |
| 8875.000        | 32.47                       | -34.80          | 37.80                 | 29.47                   | 54.00          | 21.53       | H                  |
| 7220.000        | 31.75                       | -35.40          | 36.20                 | 30.95                   | 54.00          | 22.25       | V                  |

### Ch11

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17611.500       | 41.12                       | -29.60          | 45.10                 | 25.52                   | 54.00          | 12.88       | V                  |
| 13746.500       | 37.37                       | -31.00          | 41.10                 | 27.27                   | 54.00          | 16.63       | V                  |
| 12649.000       | 34.23                       | -31.80          | 39.40                 | 26.63                   | 54.00          | 19.77       | V                  |
| 9007.500        | 32.87                       | -34.70          | 37.70                 | 29.87                   | 54.00          | 21.13       | V                  |
| 4917.000        | 32.61                       | -37.60          | 33.30                 | 36.91                   | 54.00          | 21.39       | H                  |
| 2485.800        | 51.01                       | -19.70          | 28.20                 | 42.51                   | 54.00          | 2.99        | H                  |

## 802.11n-HT20

### Ch1

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17951.000       | 41.38                       | -29.40          | 46.00                 | 24.78                   | 54.00          | 12.62       | H                  |
| 13699.000       | 37.85                       | -31.00          | 41.00                 | 27.85                   | 54.00          | 16.15       | V                  |
| 12268.500       | 34.49                       | -32.50          | 39.00                 | 27.99                   | 54.00          | 19.51       | H                  |
| 9492.500        | 33.24                       | -34.60          | 37.70                 | 30.14                   | 54.00          | 20.76       | H                  |
| 7325.000        | 32.48                       | -35.40          | 36.60                 | 31.28                   | 54.00          | 21.52       | V                  |
| 2389.900        | 48.40                       | -19.80          | 28.20                 | 40.00                   | 54.00          | 5.60        | H                  |

### Ch6

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17629.000       | 40.92                       | -29.50          | 45.40                 | 25.02                   | 54.00          | 13.08       | H                  |
| 4877.500        | 39.21                       | -37.50          | 33.40                 | 43.31                   | 54.00          | 14.79       | H                  |
| 13708.000       | 37.43                       | -31.00          | 41.00                 | 27.43                   | 54.00          | 16.57       | V                  |
| 12738.500       | 34.43                       | -31.80          | 39.60                 | 26.53                   | 54.00          | 19.57       | V                  |
| 8981.500        | 32.77                       | -34.70          | 37.70                 | 29.77                   | 54.00          | 21.23       | H                  |
| 7517.500        | 32.04                       | -35.10          | 36.40                 | 30.74                   | 54.00          | 21.96       | V                  |

### Ch11

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17580.500       | 41.23                       | -29.60          | 45.10                 | 25.63                   | 54.00          | 12.77       | V                  |
| 14096.500       | 37.74                       | -30.20          | 41.70                 | 26.24                   | 54.00          | 16.26       | H                  |
| 12786.500       | 34.42                       | -31.50          | 39.80                 | 26.12                   | 54.00          | 19.58       | V                  |
| 4914.000        | 33.95                       | -37.60          | 33.30                 | 38.25                   | 54.00          | 20.05       | H                  |
| 9411.500        | 32.68                       | -33.60          | 37.90                 | 28.38                   | 54.00          | 21.32       | V                  |
| 2485.200        | 49.27                       | -19.70          | 28.20                 | 40.77                   | 54.00          | 4.73        | H                  |

### 802.11n-HT40

#### Ch3

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17505.500       | 41.59                       | -29.20          | 44.50                 | 26.19                   | 54.00          | 12.41       | H                  |
| 13697.500       | 37.76                       | -31.00          | 41.00                 | 27.76                   | 54.00          | 16.24       | V                  |
| 12649.000       | 34.21                       | -31.80          | 39.40                 | 26.61                   | 54.00          | 19.79       | V                  |
| 4842.500        | 33.46                       | -37.70          | 33.00                 | 38.16                   | 54.00          | 20.54       | H                  |
| 9407.500        | 33.13                       | -33.60          | 37.90                 | 28.83                   | 54.00          | 20.87       | V                  |
| 2389.700        | 52.93                       | -19.80          | 28.20                 | 44.53                   | 54.00          | 1.07        | H                  |

#### Ch6

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17988.000       | 41.33                       | -29.40          | 46.00                 | 24.73                   | 54.00          | 12.67       | V                  |
| 13755.500       | 37.65                       | -31.00          | 41.10                 | 27.55                   | 54.00          | 16.35       | V                  |
| 12269.000       | 34.36                       | -32.50          | 39.00                 | 27.86                   | 54.00          | 19.64       | H                  |
| 4879.500        | 34.33                       | -37.50          | 33.40                 | 38.43                   | 54.00          | 19.67       | H                  |
| 8996.500        | 33.21                       | -34.70          | 37.70                 | 30.21                   | 54.00          | 20.79       | V                  |
| 7309.000        | 32.48                       | -35.40          | 36.60                 | 31.28                   | 54.00          | 21.52       | V                  |

#### Ch9

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17997.000       | 40.98                       | -29.40          | 46.00                 | 24.38                   | 54.00          | 13.02       | H                  |
| 13779.000       | 37.48                       | -30.90          | 41.20                 | 27.18                   | 54.00          | 16.52       | V                  |
| 12639.500       | 34.83                       | -31.80          | 39.40                 | 27.23                   | 54.00          | 19.17       | V                  |
| 4904.000        | 34.50                       | -37.60          | 33.30                 | 38.80                   | 54.00          | 19.50       | H                  |
| 8728.500        | 33.12                       | -34.80          | 37.90                 | 30.02                   | 54.00          | 20.88       | V                  |
| 2485.100        | 50.02                       | -19.70          | 28.20                 | 41.52                   | 54.00          | 3.98        | H                  |

## Band edge compliance

### 802.11b mode

| Mode    | Channel | Frequency Range     | Test Results | Conclusion |
|---------|---------|---------------------|--------------|------------|
| 802.11b | 1       | 2.31GHz~2.43GHz---L | Fig.A.7.1    | <b>P</b>   |
|         | 11      | 2.45GHz~2.50GHz---H | Fig.A.7.2    | <b>P</b>   |

### 802.11g mode

| Mode    | Channel | Frequency Range     | Test Results | Conclusion |
|---------|---------|---------------------|--------------|------------|
| 802.11g | 1       | 2.31GHz~2.43GHz---L | Fig.A.7.3    | <b>P</b>   |
|         | 11      | 2.45GHz~2.50GHz---H | Fig.A.7.4    | <b>P</b>   |

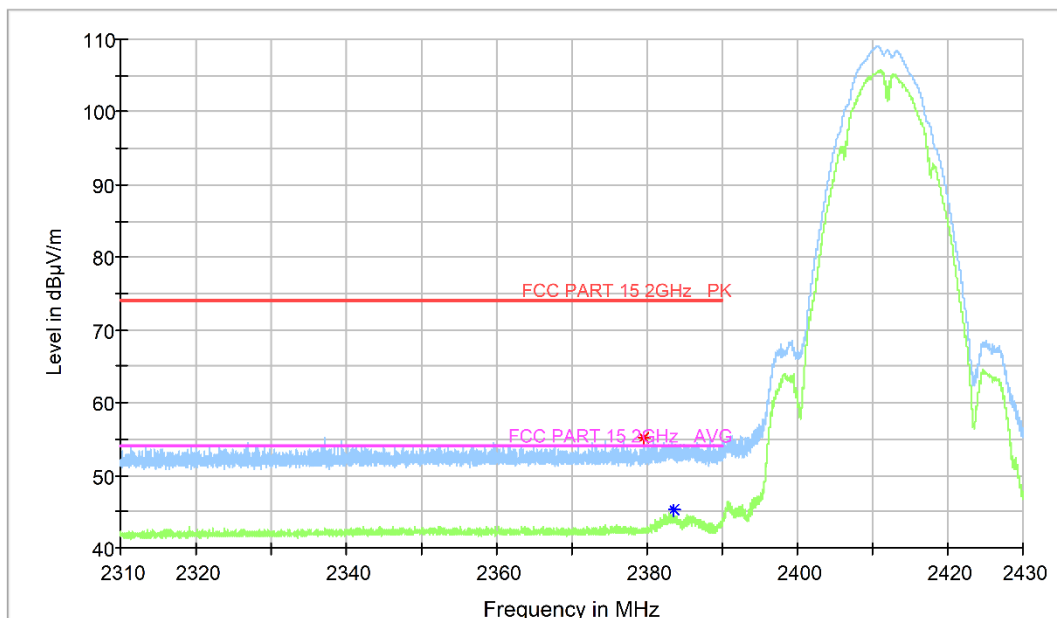
### 802.11n-HT20 mode

| Mode              | Channel | Frequency Range     | Test Results | Conclusion |
|-------------------|---------|---------------------|--------------|------------|
| 802.11n<br>(HT20) | 1       | 2.31GHz~2.43GHz---L | Fig.A.7.5    | <b>P</b>   |
|                   | 11      | 2.45GHz~2.50GHz---H | Fig.A.7.6    | <b>P</b>   |

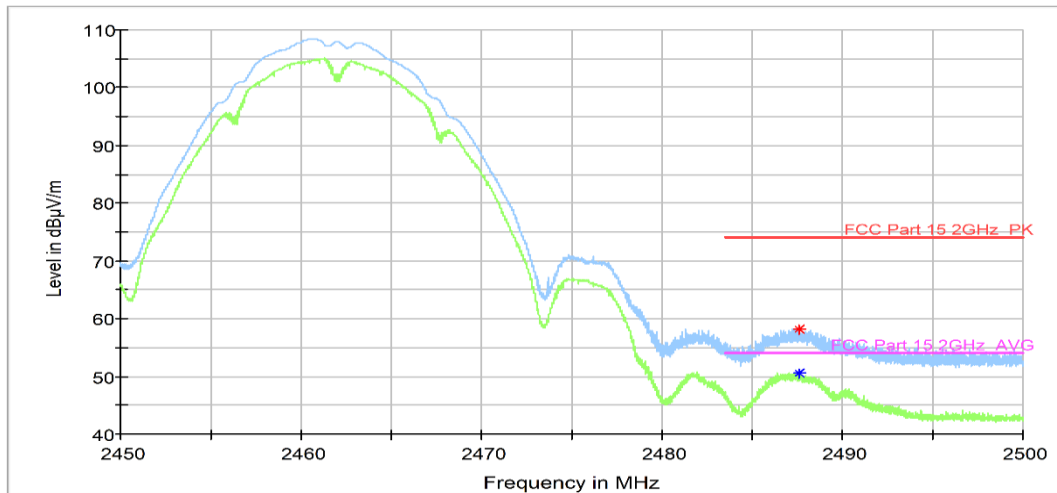
### 802.11n-HT40 mode

| Mode              | Channel | Frequency Range     | Test Results | Conclusion |
|-------------------|---------|---------------------|--------------|------------|
| 802.11n<br>(HT40) | 3       | 2.31GHz~2.43GHz---L | Fig.A.7.7    | <b>P</b>   |
|                   | 9       | 2.45GHz~2.50GHz---H | Fig.A.7.8    | <b>P</b>   |

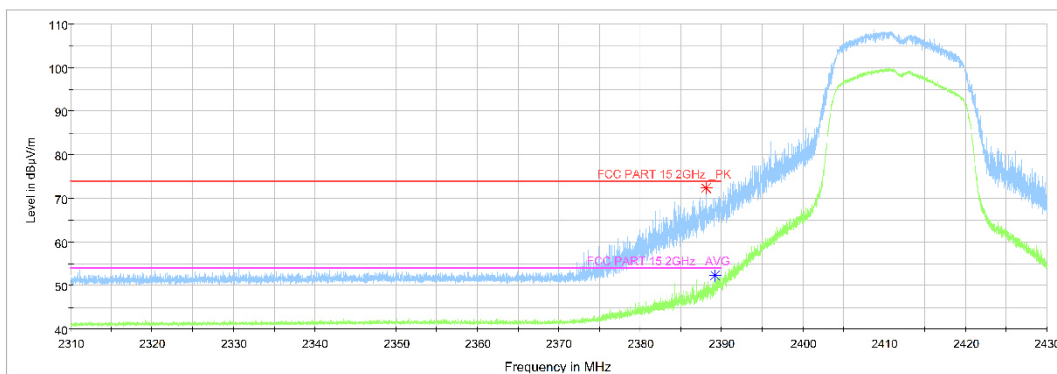
Test graphs as below:



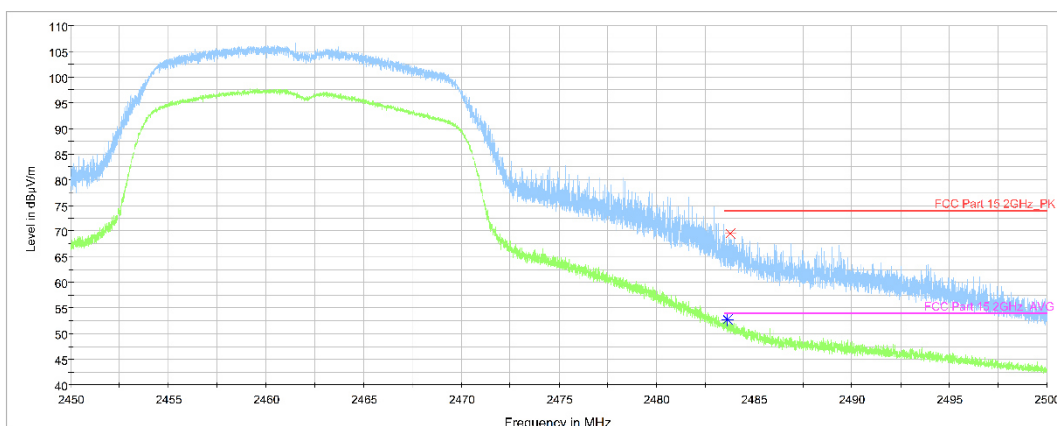
**Fig. 7.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz**



**Fig. 7.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz**



**Fig. 7.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz**



**Fig. 7.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz**