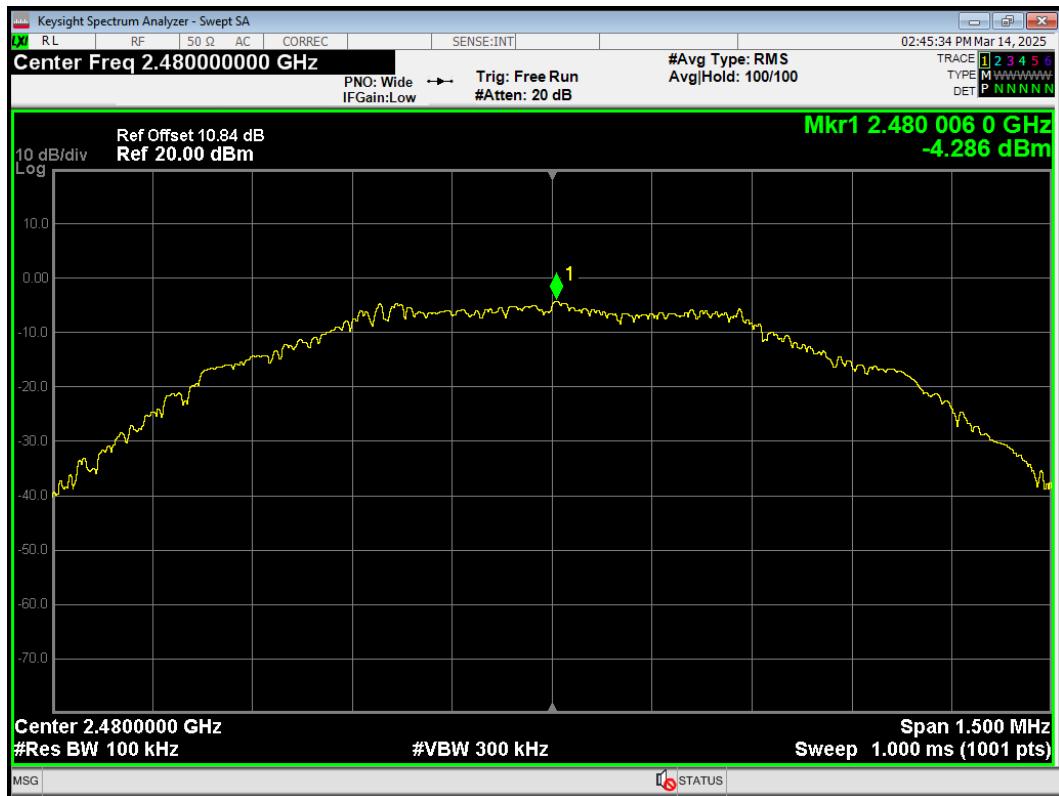
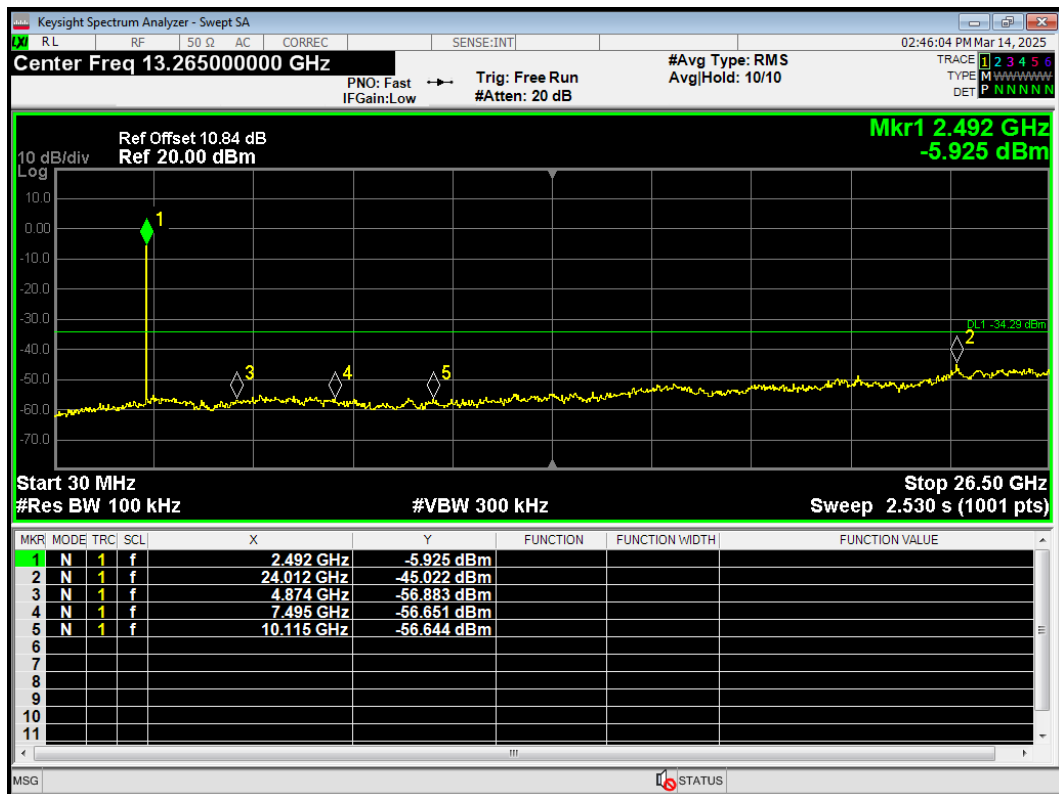


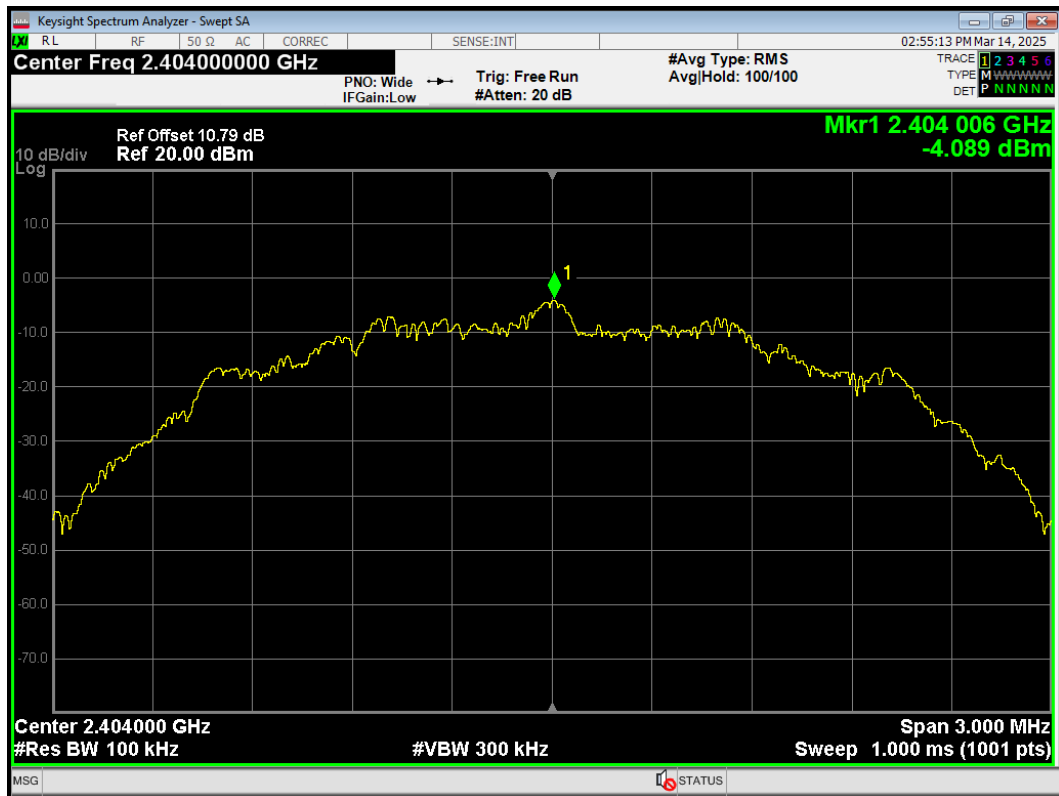
Tx. Spurious BLE (1M)2480MHz Ref



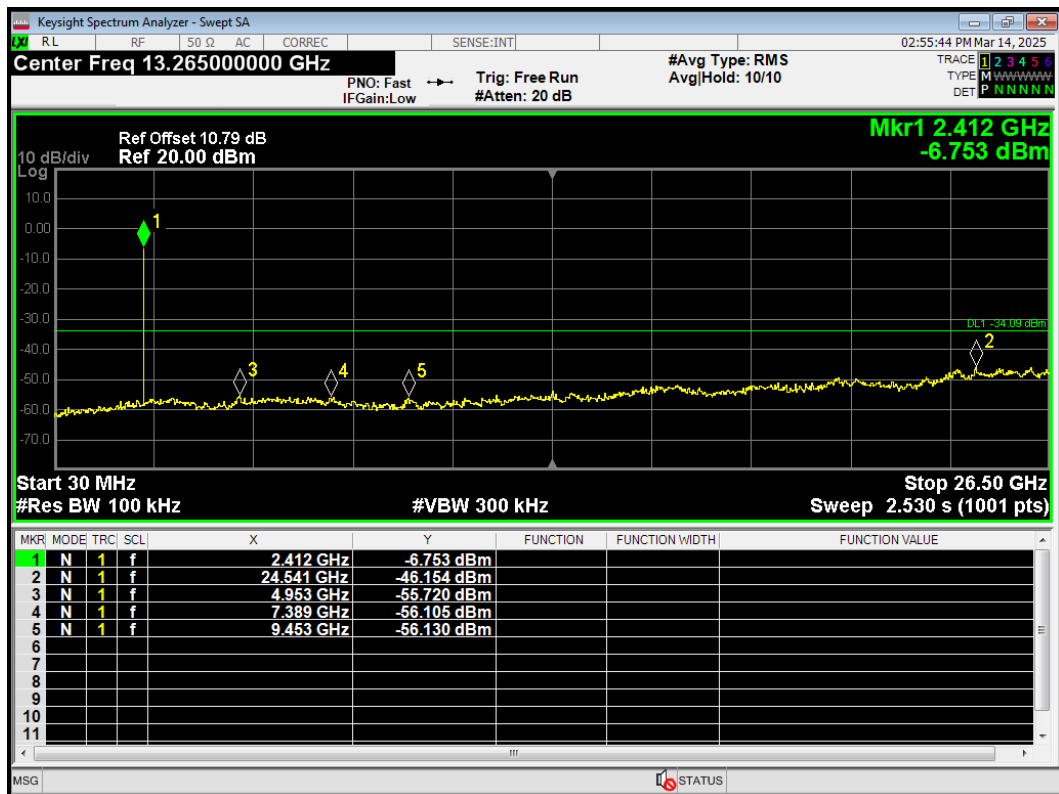
Tx. Spurious BLE (1M)2480MHz Emission



Tx. Spurious BLE (2M) 2404MHz Ref



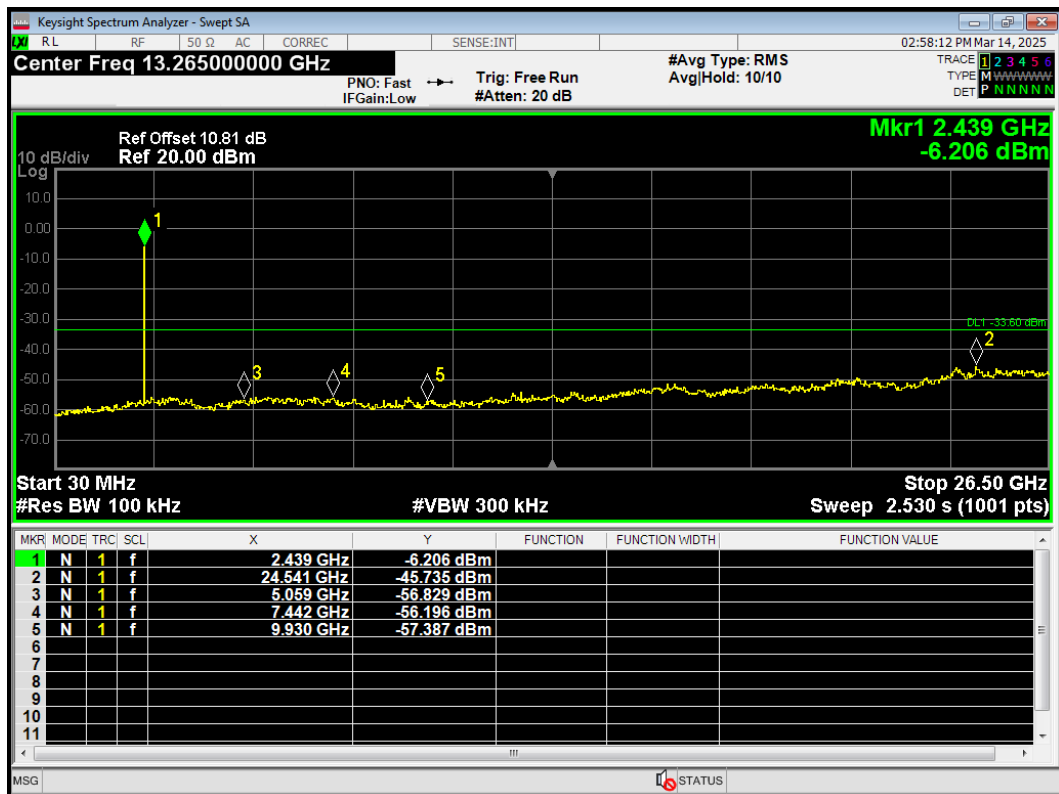
Tx. Spurious BLE (2M) 2404MHz Emission



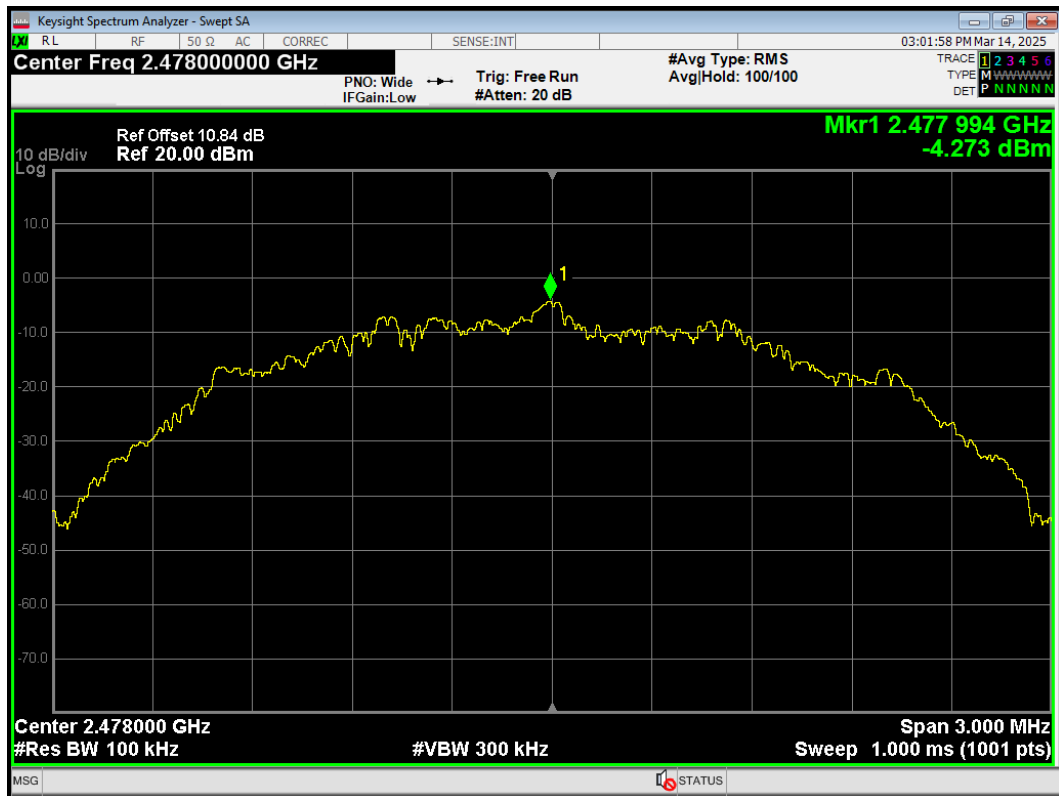
Tx. Spurious BLE (2M) 2440MHz Ref



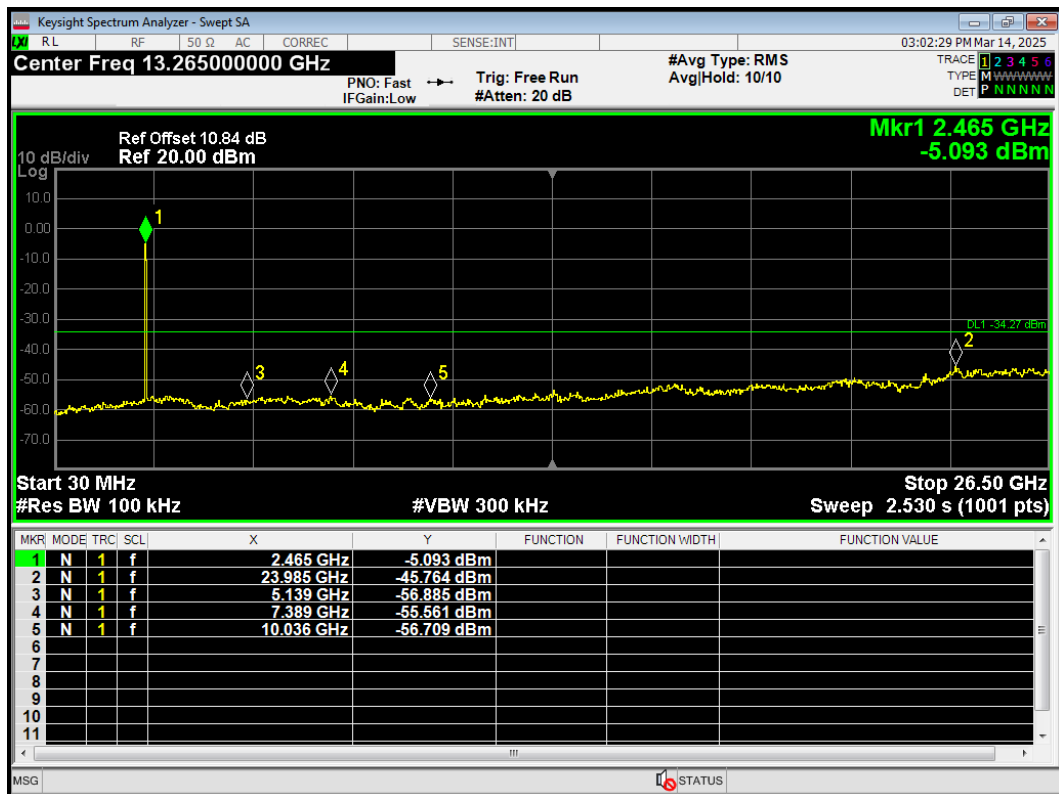
Tx. Spurious BLE (2M) 2440MHz Emission



Tx. Spurious BLE (2M) 2478MHz Ref



Tx. Spurious BLE (2M) 2478MHz Emission



5.6. Unwanted Emission

Ambient Condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 15°C ~ 35°C | 20% ~ 80% |

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

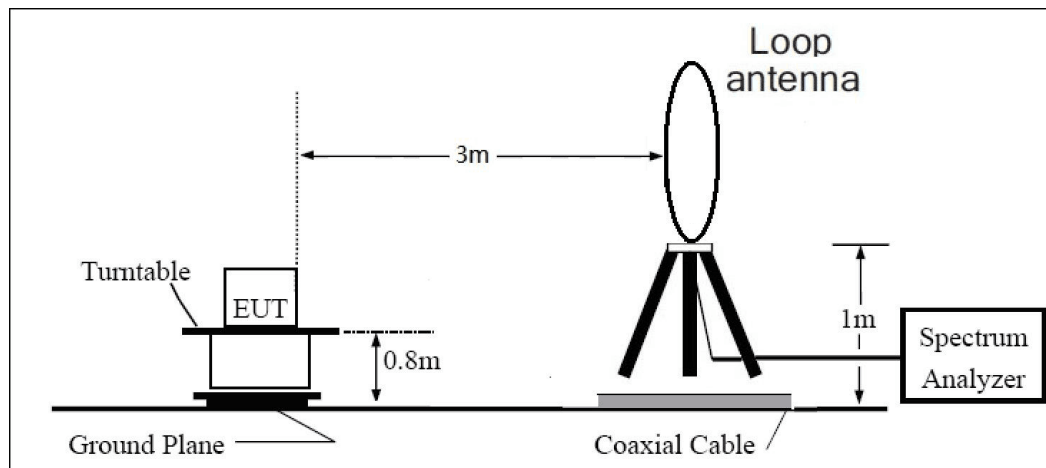
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

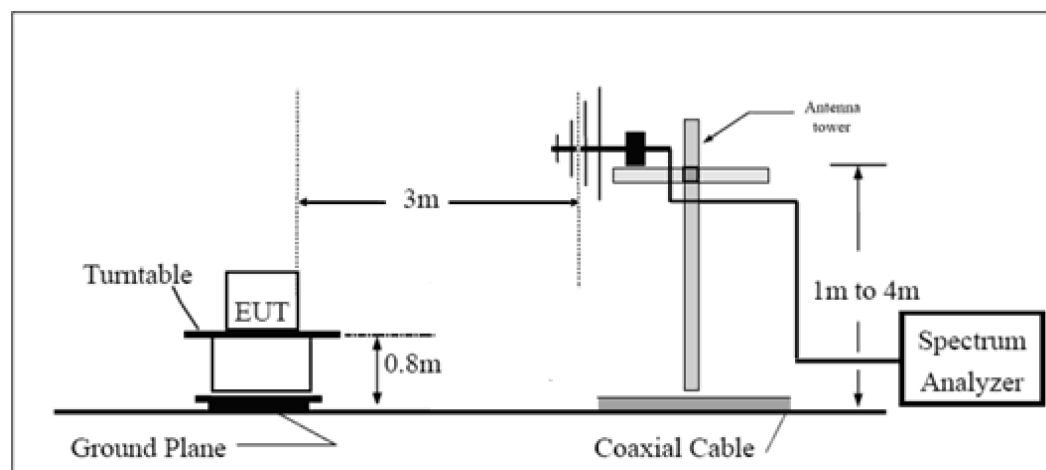
The test is in transmitting mode.

Test Setup

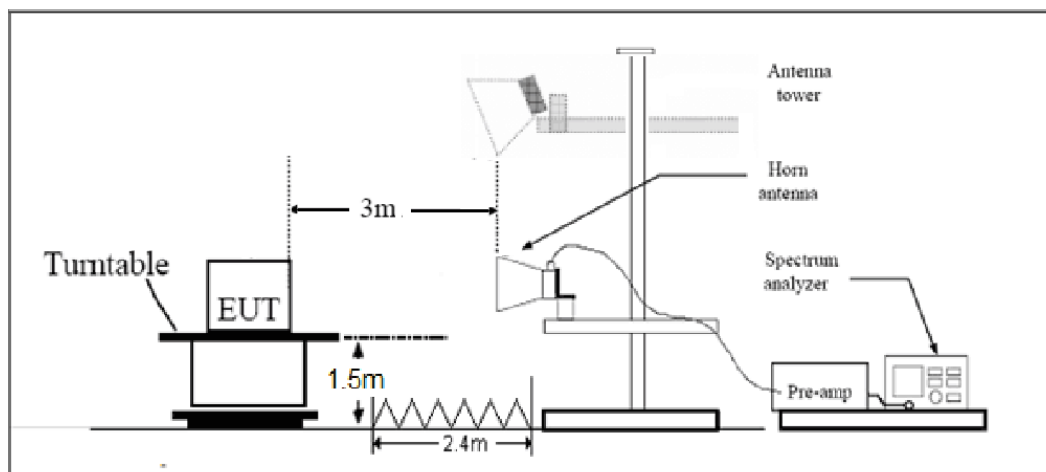
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 15.247(d) specifies that “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 of emission (MHz) | Field strength(μ V/m) | Field strength(dB μ V/m) |
|-----------------------------|----------------------------|------------------------------|
| 0.009–0.490 | 2400/F(kHz) | / |
| 0.490–1.705 | 24000/F(kHz) | / |
| 1.705–30.0 | 30 | / |
| 30–88 | 100 | 40 |
| 88–216 | 150 | 43.5 |
| 216–960 | 200 | 46 |
| Above960 | 500 | 54 |

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dB μ V/m

Average Limit=54 dB μ V/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

Measurement Uncertainty

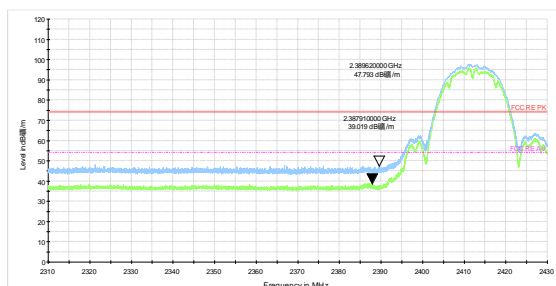
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

| Frequency | Uncertainty |
|---------------|-------------|
| 9kHz-30MHz | 3.55 dB |
| 30MHz-200MHz | 4.17 dB |
| 200MHz-1GHz | 4.84 dB |
| 1-18GHz | 4.35 dB |
| 18-26.5GHz | 5.90 dB |
| 26.5GHz~40GHz | 5.92 dB |

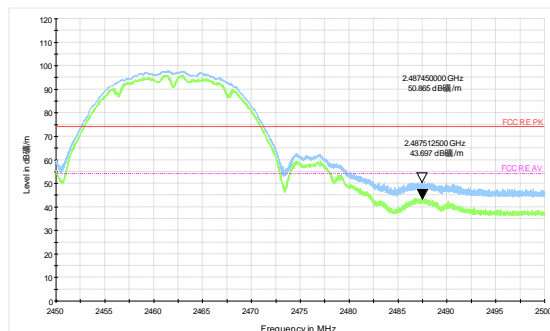
Test Results:

The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

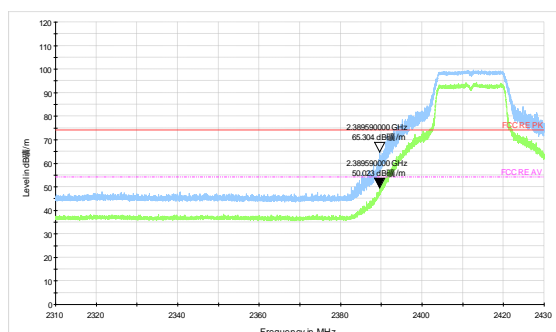
A symbol (dB μ V/m) in the test plot below means (dB μ V/m)



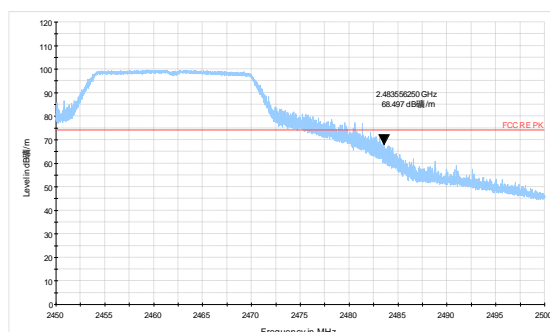
802.11b-Channel 1 Peak+ Average



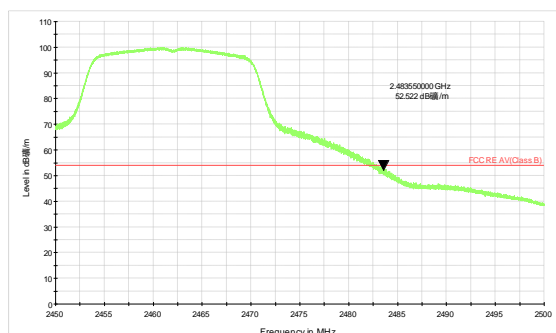
802.11b-Channel 11 Peak+ Average



802.11g-Channel 1 Peak+ Average

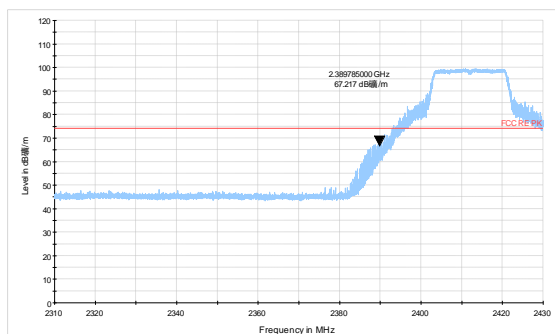


802.11g-Channel 11 Peak

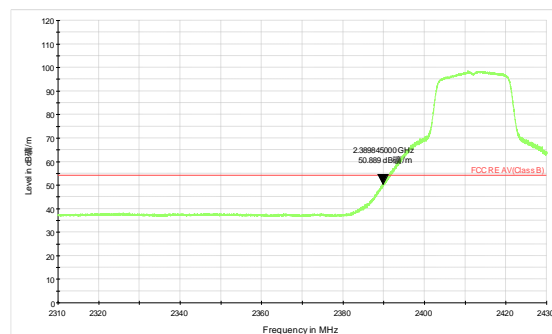


802.11g-Channel 11 Average

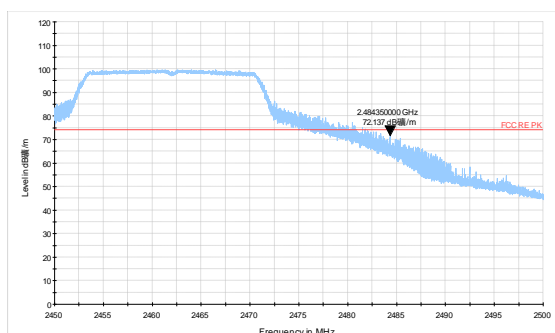
/



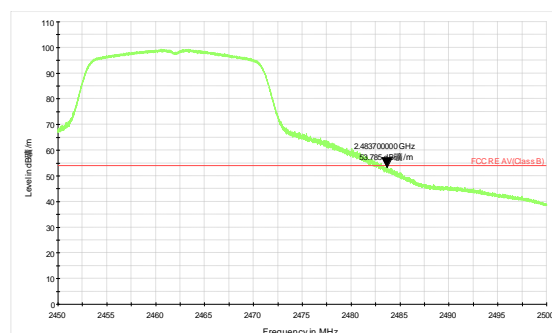
802.11n HT20-Channel 1 Peak



802.11n HT20-Channel 1 Average

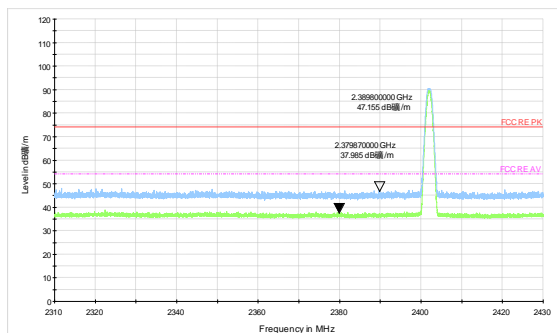


802.11n HT20-Channel 11 Peak

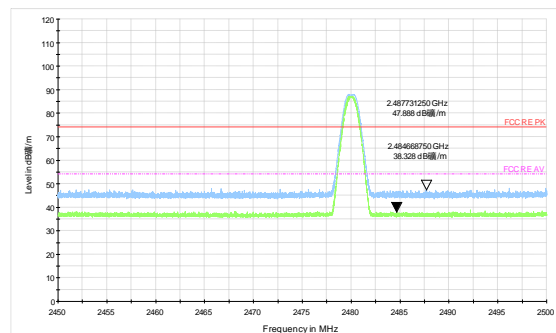


802.11n HT20-Channel 11 Average

After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.



Bluetooth LE (1M) Channel 0 Peak+ Average



Bluetooth LE (1M) Channel 39 Peak+Average

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Continuous TX mode:

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

4. For below 1GHz

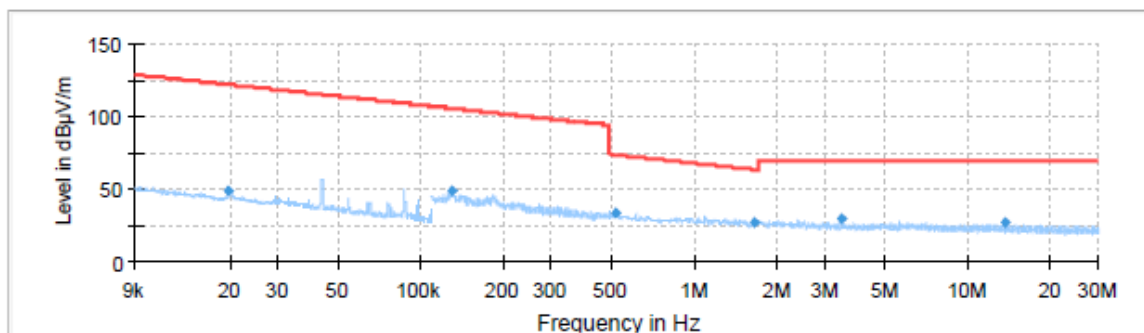
~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

For above 1GHz

~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Wi-Fi 2.4GHz

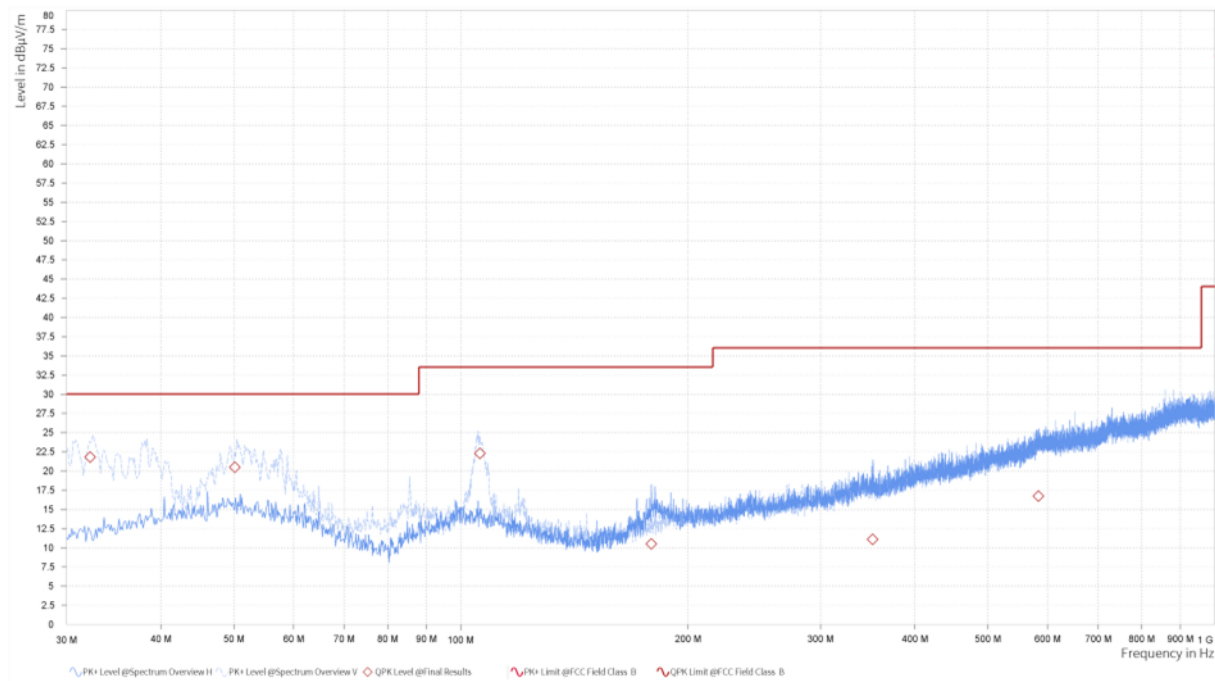
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes, are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|--------------|
| 0.02 | 49.35 | 121.70 | 72.35 | 500.00 | 0.200 | V | 140.00 | 17 |
| 0.13 | 48.74 | 105.31 | 56.57 | 150.00 | 9.000 | V | 127.00 | 17 |
| 0.52 | 32.82 | 73.35 | 40.54 | 150.00 | 9.000 | V | 98.00 | 17 |
| 1.65 | 27.36 | 63.25 | 35.89 | 150.00 | 9.000 | V | 0.00 | 17 |
| 3.45 | 29.18 | 69.50 | 40.32 | 150.00 | 9.000 | V | 358.00 | 17 |
| 13.68 | 26.45 | 69.50 | 43.05 | 150.00 | 9.000 | V | 278.00 | 17 |

Radiates Emission from 9kHz to 30MHz

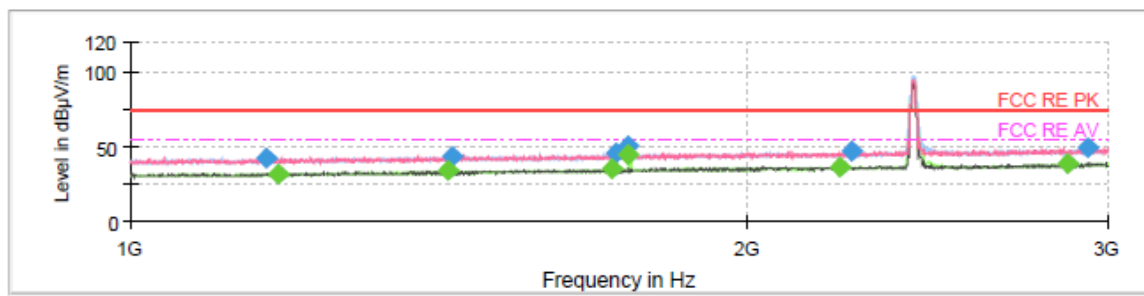


EMI Final Results

| Rg | Frequency [MHz] | QPK Level [dBμV/m] | QPK Limit [dBμV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] | Meas. Time [s] | Time of Meas. | Source |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|----------------|---------------|-----------------|
| 1 | 32.230 | 21.79 | 30.00 | 8.21 | -11.96 | V | 148 | 1.00 | 120.000 | 1.000 | 23:59:39 | Critical Points |
| 1 | 50.133 | 20.45 | 30.00 | 9.55 | -8.33 | V | 298.1 | 1.00 | 120.000 | 1.000 | 0:02:53 | Critical Points |
| 1 | 105.982 | 22.28 | 33.50 | 11.22 | -10.16 | V | 269.5 | 1.11 | 120.000 | 1.000 | 0:01:22 | Critical Points |
| 1 | 178.944 | 10.47 | 33.50 | 23.03 | -11.72 | H | 249.1 | 2.11 | 120.000 | 1.000 | 23:56:16 | Critical Points |
| 1 | 351.514 | 11.05 | 36.00 | 24.95 | -6.01 | H | 257.1 | 1.25 | 120.000 | 1.000 | 23:57:50 | Critical Points |
| 1 | 583.458 | 16.68 | 36.00 | 19.32 | -1.20 | H | 134.4 | 2.05 | 120.000 | 1.000 | 23:54:11 | Critical Points |

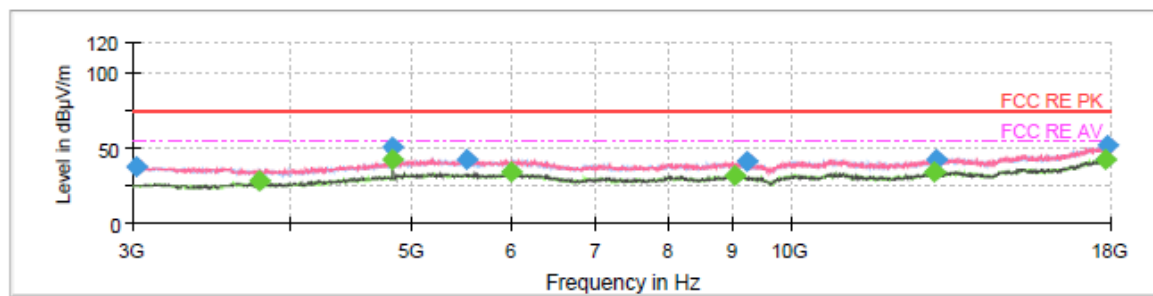
Radiates Emission from 30MHz to 1GHz

802.11b CH1



Final Result

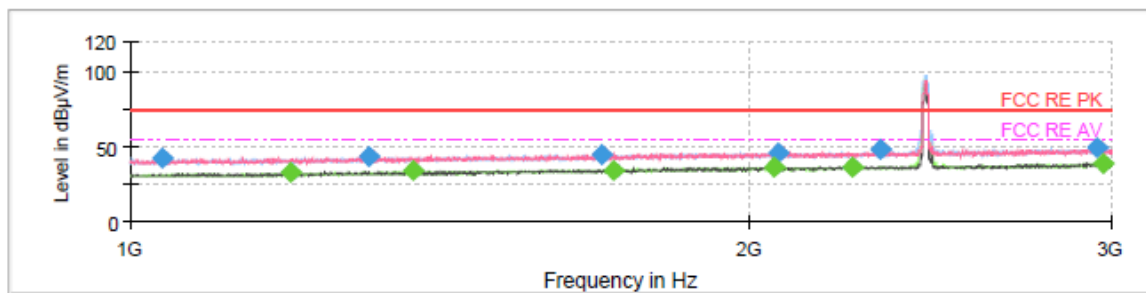
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1164.250000 | 42.47 | --- | 74.00 | 31.53 | 150.0 | 100.0 | V | 90.0 | -3.8 |
| 1182.000000 | --- | 32.19 | 54.00 | 21.81 | 150.0 | 100.0 | V | 270.0 | -3.7 |
| 1428.750000 | --- | 34.26 | 54.00 | 19.74 | 150.0 | 200.0 | V | 306.0 | -2.0 |
| 1435.750000 | 43.86 | --- | 74.00 | 30.14 | 150.0 | 200.0 | H | 0.0 | -2.0 |
| 1719.500000 | --- | 34.97 | 54.00 | 19.03 | 150.0 | 100.0 | V | 239.0 | -0.1 |
| 1726.500000 | 45.80 | --- | 74.00 | 28.20 | 150.0 | 200.0 | V | 189.0 | -0.1 |
| 1749.250000 | 50.06 | --- | 74.00 | 23.94 | 150.0 | 100.0 | H | 56.0 | 0.0 |
| 1749.250000 | --- | 44.41 | 54.00 | 9.59 | 150.0 | 200.0 | H | 56.0 | 0.0 |
| 2222.500000 | --- | 36.70 | 54.00 | 17.30 | 150.0 | 200.0 | V | 244.0 | 2.7 |
| 2250.500000 | 46.98 | --- | 74.00 | 27.02 | 150.0 | 100.0 | V | 212.0 | 2.7 |
| 2870.000000 | --- | 38.90 | 54.00 | 15.10 | 150.0 | 200.0 | V | 252.0 | 6.1 |
| 2935.250000 | 49.10 | --- | 74.00 | 24.90 | 150.0 | 200.0 | V | 226.0 | 6.6 |



Final Result

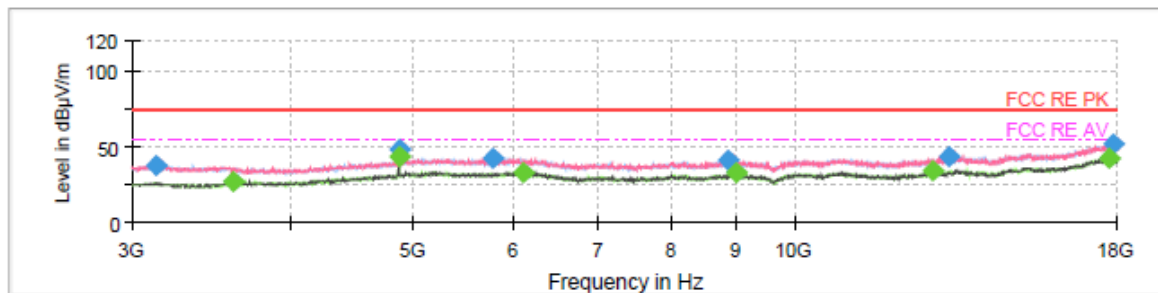
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3022.500000 | 37.56 | --- | 74.00 | 36.44 | 150.0 | 200.0 | V | 344.0 | -5.0 |
| 3787.500000 | --- | 27.83 | 54.00 | 26.17 | 150.0 | 100.0 | V | 73.0 | -3.9 |
| 4822.500000 | --- | 42.23 | 54.00 | 11.77 | 150.0 | 200.0 | H | 32.0 | 1.0 |
| 4822.500000 | 50.00 | --- | 74.00 | 24.00 | 150.0 | 100.0 | H | 32.0 | 1.0 |
| 5531.250000 | 42.20 | --- | 74.00 | 31.80 | 150.0 | 100.0 | V | 111.0 | 3.0 |
| 5988.750000 | --- | 33.56 | 54.00 | 20.44 | 150.0 | 200.0 | H | 202.0 | 3.9 |
| 9041.250000 | --- | 31.84 | 54.00 | 22.16 | 150.0 | 200.0 | V | 192.0 | 5.0 |
| 9234.375000 | 41.05 | --- | 74.00 | 32.95 | 150.0 | 100.0 | V | 0.0 | 5.2 |
| 13033.125000 | --- | 34.04 | 54.00 | 19.96 | 150.0 | 200.0 | H | 240.0 | 11.0 |
| 13044.375000 | 42.86 | --- | 74.00 | 31.14 | 150.0 | 200.0 | H | 341.0 | 10.9 |
| 17831.250000 | --- | 42.07 | 54.00 | 11.93 | 150.0 | 200.0 | H | 359.0 | 20.5 |
| 17900.625000 | 51.21 | --- | 74.00 | 22.79 | 150.0 | 200.0 | H | 224.0 | 20.6 |

802.11b CH6



Final Result

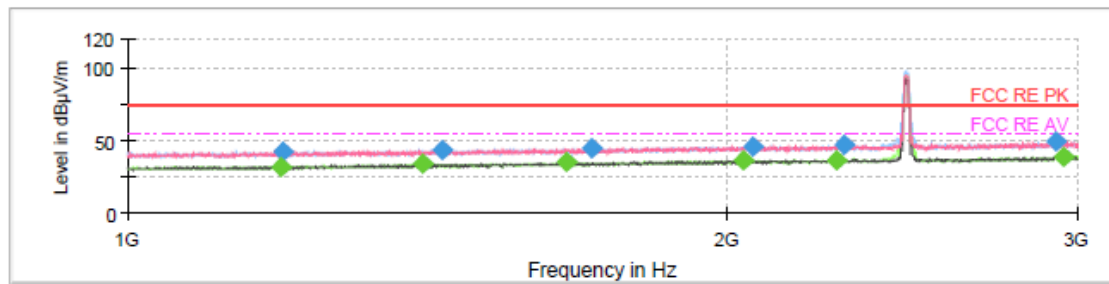
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1037.250000 | 42.47 | --- | 74.00 | 31.53 | 150.0 | 100.0 | V | 94.0 | -4.8 |
| 1197.500000 | --- | 32.61 | 54.00 | 21.39 | 150.0 | 200.0 | H | 326.0 | -3.6 |
| 1306.250000 | 43.78 | --- | 74.00 | 30.22 | 150.0 | 100.0 | V | 3.0 | -2.8 |
| 1372.000000 | --- | 33.76 | 54.00 | 20.24 | 150.0 | 100.0 | V | 138.0 | -2.4 |
| 1696.000000 | 44.94 | --- | 74.00 | 29.06 | 150.0 | 200.0 | H | 257.0 | -0.3 |
| 1720.250000 | --- | 34.65 | 54.00 | 19.35 | 150.0 | 200.0 | H | 330.0 | -0.1 |
| 2058.500000 | --- | 36.34 | 54.00 | 17.66 | 150.0 | 200.0 | V | 19.0 | 1.9 |
| 2067.750000 | 46.17 | --- | 74.00 | 27.83 | 150.0 | 100.0 | V | 156.0 | 1.8 |
| 2244.000000 | --- | 36.87 | 54.00 | 17.13 | 150.0 | 200.0 | V | 125.0 | 2.6 |
| 2317.250000 | 47.96 | --- | 74.00 | 26.04 | 150.0 | 200.0 | V | 121.0 | 3.1 |
| 2951.250000 | 49.05 | --- | 74.00 | 24.95 | 150.0 | 200.0 | H | 94.0 | 6.6 |
| 2974.250000 | --- | 38.89 | 54.00 | 15.11 | 150.0 | 200.0 | H | 291.0 | 6.8 |



Final Result

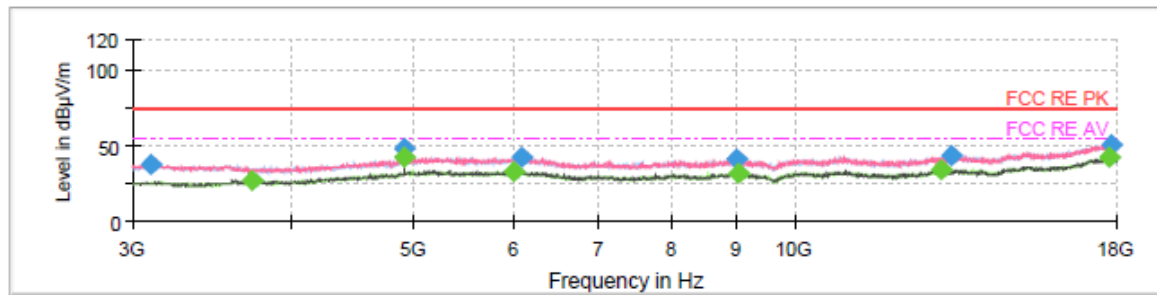
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3136.875000 | 37.39 | --- | 74.00 | 36.61 | 150.0 | 100.0 | H | 190.0 | -4.6 |
| 3601.875000 | --- | 27.37 | 54.00 | 26.63 | 150.0 | 200.0 | V | 105.0 | -4.1 |
| 4873.125000 | 48.65 | --- | 74.00 | 25.35 | 150.0 | 100.0 | H | 49.0 | 1.4 |
| 4873.125000 | --- | 43.75 | 54.00 | 10.25 | 150.0 | 100.0 | H | 49.0 | 1.4 |
| 5782.500000 | 42.71 | --- | 74.00 | 31.29 | 150.0 | 200.0 | V | 252.0 | 3.8 |
| 6101.250000 | --- | 33.25 | 54.00 | 20.75 | 150.0 | 200.0 | H | 82.0 | 3.7 |
| 8870.625000 | 41.06 | --- | 74.00 | 32.94 | 150.0 | 200.0 | V | 116.0 | 5.0 |
| 9009.375000 | --- | 32.62 | 54.00 | 21.38 | 150.0 | 100.0 | H | 359.0 | 5.0 |
| 12849.375000 | --- | 33.91 | 54.00 | 20.09 | 150.0 | 200.0 | V | 40.0 | 10.4 |
| 13243.125000 | 43.27 | --- | 74.00 | 30.73 | 150.0 | 200.0 | H | 98.0 | 10.6 |
| 17748.750000 | --- | 41.90 | 54.00 | 12.10 | 150.0 | 200.0 | H | 169.0 | 20.4 |
| 17836.875000 | 51.24 | --- | 74.00 | 22.76 | 150.0 | 200.0 | V | 262.0 | 20.5 |

802.11b CH11



Final Result

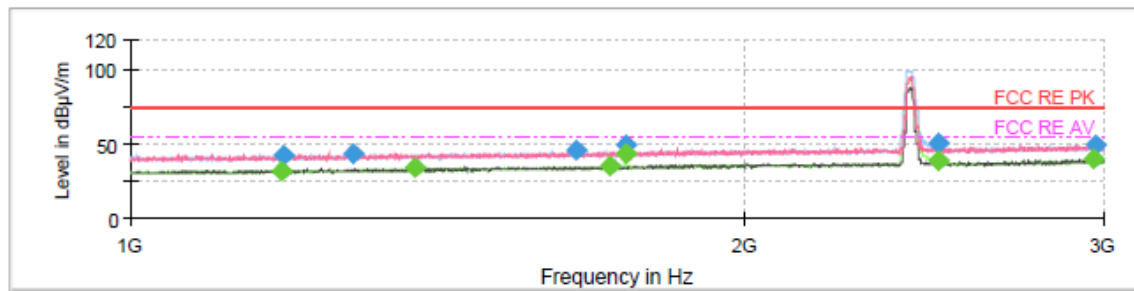
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1193.250000 | --- | 32.26 | 54.00 | 21.74 | 150.0 | 100.0 | V | 300.0 | -3.6 |
| 1196.750000 | 42.16 | --- | 74.00 | 31.84 | 150.0 | 200.0 | V | 95.0 | -3.6 |
| 1407.250000 | --- | 33.72 | 54.00 | 20.28 | 150.0 | 100.0 | H | 347.0 | -2.1 |
| 1439.000000 | 43.99 | --- | 74.00 | 30.01 | 150.0 | 100.0 | H | 266.0 | -2.0 |
| 1662.000000 | --- | 34.73 | 54.00 | 19.27 | 150.0 | 200.0 | V | 68.0 | -0.4 |
| 1712.250000 | 44.79 | --- | 74.00 | 29.21 | 150.0 | 200.0 | V | 0.0 | -0.1 |
| 2037.000000 | --- | 36.44 | 54.00 | 17.56 | 150.0 | 100.0 | V | 194.0 | 1.9 |
| 2062.750000 | 46.17 | --- | 74.00 | 27.83 | 150.0 | 200.0 | H | 342.0 | 1.9 |
| 2268.750000 | --- | 36.67 | 54.00 | 17.33 | 150.0 | 200.0 | V | 64.0 | 2.8 |
| 2289.000000 | 46.62 | --- | 74.00 | 27.38 | 150.0 | 200.0 | V | 233.0 | 3.0 |
| 2926.500000 | 49.58 | --- | 74.00 | 24.42 | 150.0 | 200.0 | H | 230.0 | 6.5 |
| 2954.250000 | --- | 38.93 | 54.00 | 15.07 | 150.0 | 100.0 | V | 300.0 | 6.7 |



Final Result

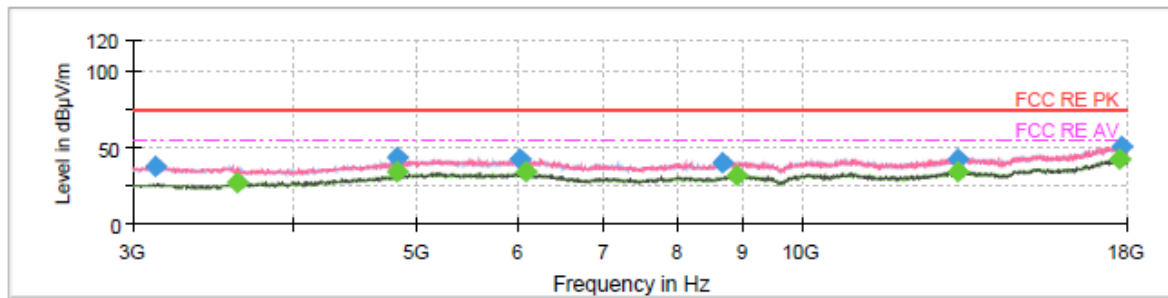
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3106.875000 | 37.38 | --- | 74.00 | 36.62 | 150.0 | 100.0 | V | 21.0 | -4.9 |
| 3723.750000 | --- | 27.23 | 54.00 | 26.77 | 150.0 | 200.0 | V | 48.0 | -4.2 |
| 4923.750000 | --- | 42.14 | 54.00 | 11.86 | 150.0 | 100.0 | H | 173.0 | 1.8 |
| 4923.750000 | 48.52 | --- | 74.00 | 25.48 | 150.0 | 100.0 | H | 173.0 | 1.8 |
| 5990.625000 | --- | 33.14 | 54.00 | 20.86 | 150.0 | 200.0 | V | 37.0 | 3.9 |
| 6088.125000 | 42.22 | --- | 74.00 | 31.78 | 150.0 | 200.0 | H | 325.0 | 3.7 |
| 9000.000000 | 40.96 | --- | 74.00 | 33.04 | 150.0 | 200.0 | H | 147.0 | 5.0 |
| 9035.625000 | --- | 32.02 | 54.00 | 21.98 | 150.0 | 200.0 | V | 193.0 | 5.0 |
| 13040.625000 | --- | 33.82 | 54.00 | 20.18 | 150.0 | 100.0 | V | 118.0 | 10.9 |
| 13295.625000 | 43.03 | --- | 74.00 | 30.97 | 150.0 | 200.0 | V | 64.0 | 10.8 |
| 17713.125000 | --- | 41.91 | 54.00 | 12.09 | 150.0 | 200.0 | V | 101.0 | 20.4 |
| 17771.250000 | 50.91 | --- | 74.00 | 23.09 | 150.0 | 200.0 | H | 309.0 | 20.4 |

802.11g CH1



Final Result

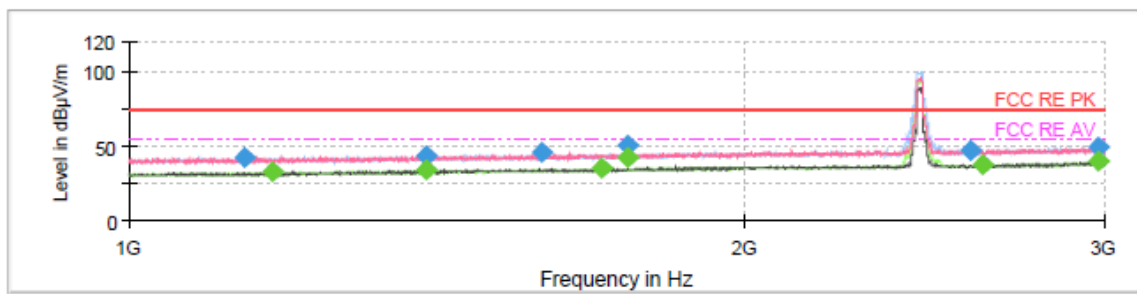
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1185.250000 | --- | 32.32 | 54.00 | 21.68 | 150.0 | 100.0 | H | 274.0 | -3.7 |
| 1188.500000 | 42.66 | --- | 74.00 | 31.34 | 150.0 | 200.0 | V | 2.0 | -3.7 |
| 1285.000000 | 43.83 | --- | 74.00 | 30.17 | 150.0 | 100.0 | H | 331.0 | -2.9 |
| 1379.250000 | --- | 33.90 | 54.00 | 20.10 | 150.0 | 100.0 | H | 335.0 | -2.3 |
| 1653.000000 | 45.54 | --- | 74.00 | 28.46 | 150.0 | 200.0 | H | 131.0 | -0.5 |
| 1718.000000 | --- | 35.16 | 54.00 | 18.84 | 150.0 | 200.0 | V | 289.0 | -0.1 |
| 1748.250000 | 49.69 | --- | 74.00 | 24.31 | 150.0 | 100.0 | H | 322.0 | 0.0 |
| 1748.250000 | --- | 43.62 | 54.00 | 10.38 | 150.0 | 200.0 | H | 322.0 | 0.0 |
| 2489.500000 | --- | 38.97 | 54.00 | 15.03 | 150.0 | 200.0 | H | 269.0 | 3.8 |
| 2490.500000 | 50.10 | --- | 74.00 | 23.90 | 150.0 | 200.0 | H | 278.0 | 3.8 |
| 2969.750000 | --- | 39.51 | 54.00 | 14.49 | 150.0 | 200.0 | V | 335.0 | 6.8 |
| 2975.500000 | 49.28 | --- | 74.00 | 24.72 | 150.0 | 200.0 | H | 193.0 | 6.8 |



Final Result

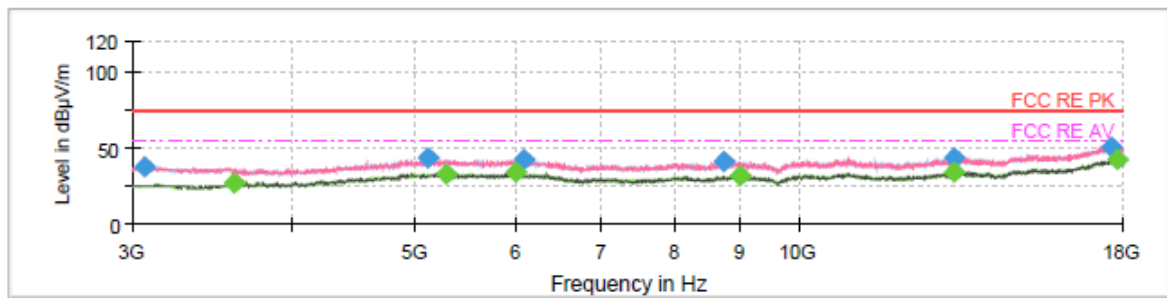
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3129.375000 | 37.65 | --- | 74.00 | 36.35 | 150.0 | 100.0 | V | 74.0 | -4.7 |
| 3624.375000 | --- | 27.41 | 54.00 | 26.59 | 150.0 | 200.0 | V | 224.0 | -4.1 |
| 4822.500000 | 44.10 | --- | 74.00 | 29.90 | 150.0 | 100.0 | H | 178.0 | 1.0 |
| 4822.500000 | --- | 34.43 | 54.00 | 19.57 | 150.0 | 100.0 | H | 178.0 | 1.0 |
| 6024.375000 | 42.10 | --- | 74.00 | 31.90 | 150.0 | 200.0 | V | 58.0 | 3.9 |
| 6078.750000 | --- | 33.58 | 54.00 | 20.42 | 150.0 | 200.0 | V | 63.0 | 3.8 |
| 8681.250000 | 40.54 | --- | 74.00 | 33.46 | 150.0 | 200.0 | H | 27.0 | 4.9 |
| 8896.875000 | --- | 31.75 | 54.00 | 22.25 | 150.0 | 100.0 | V | 150.0 | 5.1 |
| 13245.000000 | 42.63 | --- | 74.00 | 31.37 | 150.0 | 200.0 | H | 33.0 | 10.6 |
| 13263.750000 | --- | 34.32 | 54.00 | 19.68 | 150.0 | 200.0 | V | 20.0 | 10.7 |
| 17758.125000 | --- | 41.87 | 54.00 | 12.13 | 150.0 | 200.0 | V | 9.0 | 20.4 |
| 17769.375000 | 50.85 | --- | 74.00 | 23.15 | 150.0 | 200.0 | H | 97.0 | 20.4 |

802.11g CH6



Final Result

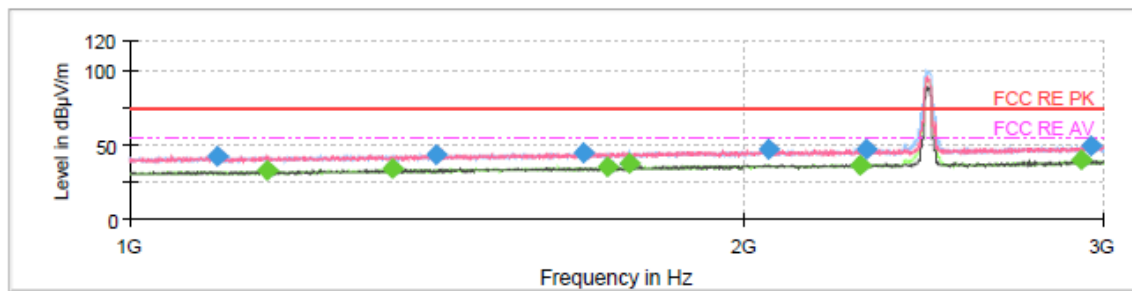
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1139.000000 | 42.73 | --- | 74.00 | 31.27 | 150.0 | 100.0 | V | 181.0 | -4.0 |
| 1176.250000 | --- | 32.53 | 54.00 | 21.47 | 150.0 | 200.0 | V | 30.0 | -3.7 |
| 1397.750000 | --- | 33.81 | 54.00 | 20.19 | 150.0 | 100.0 | V | 238.0 | -2.2 |
| 1399.000000 | 43.62 | --- | 74.00 | 30.38 | 150.0 | 100.0 | V | 83.0 | -2.2 |
| 1591.000000 | 45.79 | --- | 74.00 | 28.21 | 150.0 | 200.0 | V | 48.0 | -0.9 |
| 1704.750000 | --- | 35.00 | 54.00 | 19.00 | 150.0 | 200.0 | V | 228.0 | -0.2 |
| 1753.750000 | 50.10 | --- | 74.00 | 23.90 | 150.0 | 200.0 | H | 359.0 | 0.1 |
| 1753.750000 | --- | 42.55 | 54.00 | 11.45 | 150.0 | 100.0 | H | 359.0 | 0.1 |
| 2579.500000 | 47.63 | --- | 74.00 | 26.37 | 150.0 | 200.0 | H | 242.0 | 4.2 |
| 2614.500000 | --- | 37.86 | 54.00 | 16.14 | 150.0 | 200.0 | V | 110.0 | 4.4 |
| 2980.250000 | 49.22 | --- | 74.00 | 24.78 | 150.0 | 100.0 | H | 130.0 | 6.8 |
| 2981.000000 | --- | 39.67 | 54.00 | 14.33 | 150.0 | 200.0 | H | 356.0 | 6.8 |



Final Result

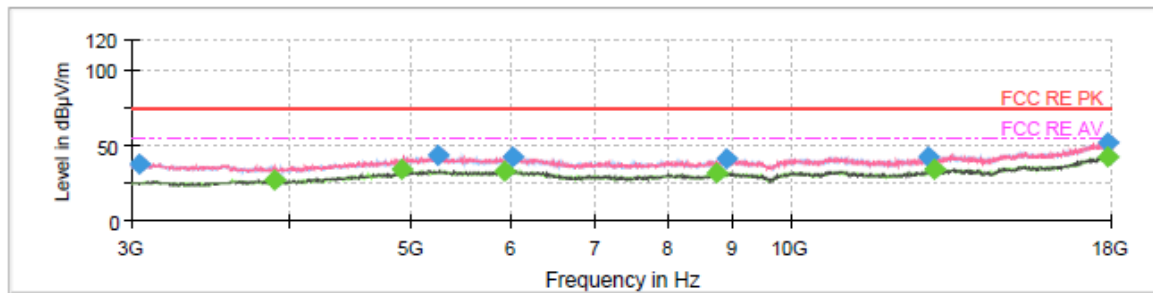
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3065.625000 | 37.29 | --- | 74.00 | 36.71 | 150.0 | 100.0 | H | 99.0 | -4.9 |
| 3605.625000 | --- | 27.12 | 54.00 | 26.88 | 150.0 | 200.0 | V | 304.0 | -4.2 |
| 5124.375000 | 42.99 | --- | 74.00 | 31.01 | 150.0 | 200.0 | V | 134.0 | 2.5 |
| 5287.500000 | --- | 33.53 | 54.00 | 20.47 | 150.0 | 100.0 | V | 144.0 | 2.5 |
| 6009.375000 | --- | 33.74 | 54.00 | 20.26 | 150.0 | 200.0 | V | 183.0 | 3.9 |
| 6091.875000 | 42.29 | --- | 74.00 | 31.71 | 150.0 | 200.0 | V | 69.0 | 3.7 |
| 8746.875000 | 40.89 | --- | 74.00 | 33.11 | 150.0 | 100.0 | V | 134.0 | 5.0 |
| 9011.250000 | --- | 31.64 | 54.00 | 22.36 | 150.0 | 200.0 | H | 298.0 | 5.0 |
| 13271.250000 | --- | 34.07 | 54.00 | 19.93 | 150.0 | 200.0 | H | 268.0 | 10.7 |
| 13273.125000 | 42.98 | --- | 74.00 | 31.02 | 150.0 | 200.0 | H | 246.0 | 10.7 |
| 17608.125000 | 50.97 | --- | 74.00 | 23.03 | 150.0 | 200.0 | V | 161.0 | 20.1 |
| 17808.750000 | --- | 41.80 | 54.00 | 12.20 | 150.0 | 200.0 | V | 42.0 | 20.5 |

802.11g CH11



Final Result

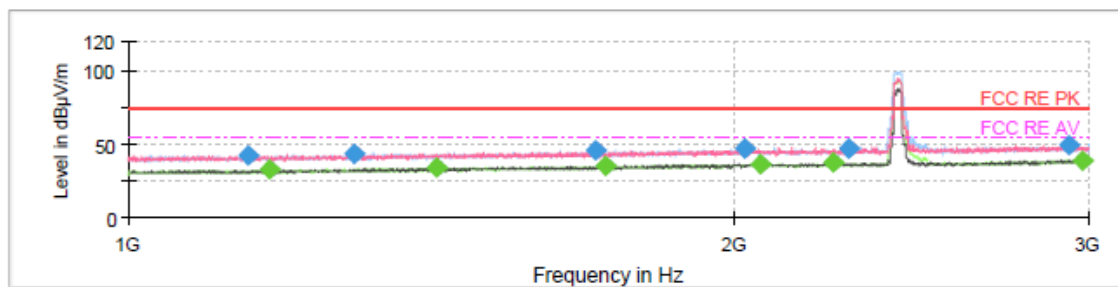
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1103.500000 | 42.50 | --- | 74.00 | 31.50 | 150.0 | 100.0 | H | 268.0 | -4.2 |
| 1168.250000 | --- | 32.54 | 54.00 | 21.46 | 150.0 | 200.0 | V | 104.0 | -3.8 |
| 1345.500000 | --- | 33.82 | 54.00 | 20.18 | 150.0 | 100.0 | V | 344.0 | -2.5 |
| 1412.750000 | 43.89 | --- | 74.00 | 30.11 | 150.0 | 200.0 | V | 125.0 | -2.1 |
| 1667.500000 | 45.25 | --- | 74.00 | 28.75 | 150.0 | 200.0 | V | 108.0 | -0.4 |
| 1715.000000 | --- | 34.84 | 54.00 | 19.16 | 150.0 | 100.0 | H | 339.0 | -0.1 |
| 1755.750000 | --- | 37.79 | 54.00 | 16.21 | 150.0 | 200.0 | H | 161.0 | 0.1 |
| 2056.250000 | 46.90 | --- | 74.00 | 27.10 | 150.0 | 200.0 | V | 197.0 | 2.0 |
| 2283.000000 | --- | 36.83 | 54.00 | 17.17 | 150.0 | 100.0 | H | 183.0 | 3.0 |
| 2293.750000 | 47.23 | --- | 74.00 | 26.77 | 150.0 | 200.0 | V | 72.0 | 2.9 |
| 2929.750000 | --- | 39.67 | 54.00 | 14.33 | 150.0 | 200.0 | V | 280.0 | 6.5 |
| 2961.500000 | 49.10 | --- | 74.00 | 24.90 | 150.0 | 200.0 | V | 10.0 | 6.7 |



Final Result

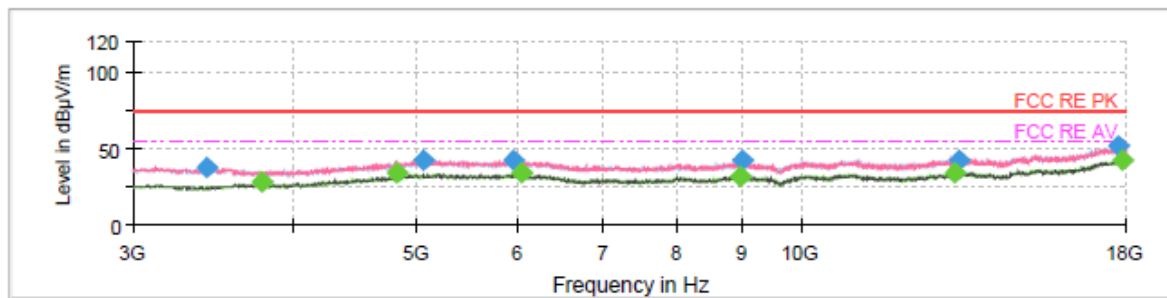
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3048.750000 | 37.78 | --- | 74.00 | 36.22 | 150.0 | 100.0 | V | 78.0 | -5.1 |
| 3900.000000 | --- | 26.91 | 54.00 | 27.09 | 150.0 | 200.0 | H | 139.0 | -3.9 |
| 4925.625000 | --- | 33.66 | 54.00 | 20.34 | 150.0 | 100.0 | H | 202.0 | 1.9 |
| 5259.375000 | 43.10 | --- | 74.00 | 30.90 | 150.0 | 200.0 | V | 162.0 | 2.5 |
| 5926.875000 | --- | 33.17 | 54.00 | 20.83 | 150.0 | 100.0 | V | 50.0 | 3.8 |
| 6022.500000 | 42.28 | --- | 74.00 | 31.72 | 150.0 | 200.0 | H | 50.0 | 3.9 |
| 8730.000000 | --- | 31.77 | 54.00 | 22.23 | 150.0 | 200.0 | H | 343.0 | 5.0 |
| 8904.375000 | 40.95 | --- | 74.00 | 33.05 | 150.0 | 100.0 | V | 83.0 | 5.1 |
| 12856.875000 | 42.77 | --- | 74.00 | 31.23 | 150.0 | 200.0 | V | 88.0 | 10.4 |
| 13021.875000 | --- | 34.25 | 54.00 | 19.75 | 150.0 | 200.0 | H | 272.0 | 11.0 |
| 17855.625000 | --- | 42.60 | 54.00 | 11.40 | 150.0 | 200.0 | V | 6.0 | 20.5 |
| 17855.625000 | 51.39 | --- | 74.00 | 22.61 | 150.0 | 200.0 | H | 337.0 | 20.5 |

802.11n (HT20) CH1



Final Result

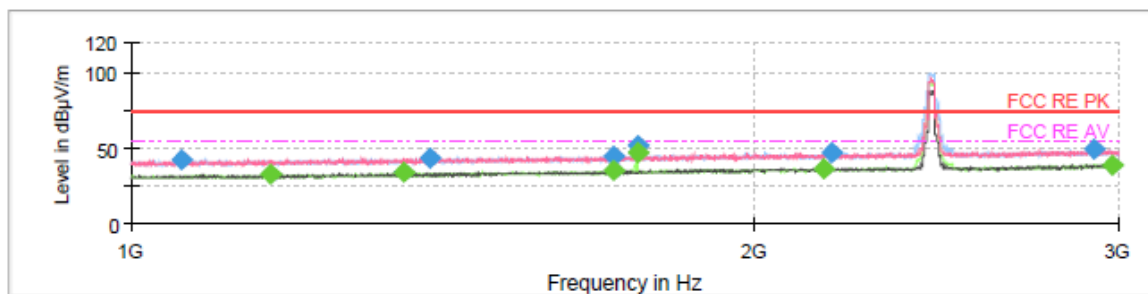
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1145.750000 | 42.17 | --- | 74.00 | 31.83 | 150.0 | 100.0 | H | 132.0 | -3.9 |
| 1176.250000 | --- | 33.31 | 54.00 | 20.69 | 150.0 | 200.0 | H | 350.0 | -3.7 |
| 1295.000000 | 43.64 | --- | 74.00 | 30.36 | 150.0 | 100.0 | H | 301.0 | -2.9 |
| 1422.250000 | --- | 33.99 | 54.00 | 20.01 | 150.0 | 100.0 | H | 155.0 | -2.1 |
| 1706.750000 | 45.78 | --- | 74.00 | 28.22 | 150.0 | 200.0 | V | 91.0 | -0.2 |
| 1727.500000 | --- | 34.81 | 54.00 | 19.19 | 150.0 | 200.0 | V | 34.0 | -0.1 |
| 2027.000000 | 46.85 | --- | 74.00 | 27.15 | 150.0 | 100.0 | V | 226.0 | 1.7 |
| 2060.250000 | --- | 36.77 | 54.00 | 17.23 | 150.0 | 200.0 | V | 25.0 | 1.9 |
| 2239.000000 | --- | 37.87 | 54.00 | 16.13 | 150.0 | 200.0 | V | 321.0 | 2.6 |
| 2280.500000 | 46.94 | --- | 74.00 | 27.06 | 150.0 | 200.0 | V | 326.0 | 2.9 |
| 2934.500000 | 48.97 | --- | 74.00 | 25.03 | 150.0 | 200.0 | V | 56.0 | 6.6 |
| 2977.750000 | --- | 39.35 | 54.00 | 14.65 | 150.0 | 200.0 | V | 12.0 | 6.8 |



Final Result

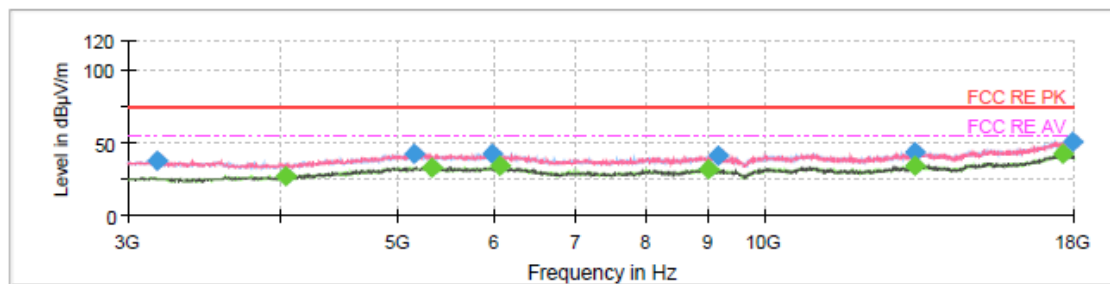
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3431.250000 | 37.58 | --- | 74.00 | 36.42 | 150.0 | 200.0 | V | 112.0 | -4.3 |
| 3781.875000 | --- | 27.77 | 54.00 | 26.23 | 150.0 | 100.0 | H | 168.0 | -4.0 |
| 4822.500000 | --- | 33.62 | 54.00 | 20.38 | 150.0 | 100.0 | V | 74.0 | 1.0 |
| 5064.375000 | 42.64 | --- | 74.00 | 31.36 | 150.0 | 200.0 | H | 282.0 | 2.5 |
| 5956.875000 | 42.21 | --- | 74.00 | 31.79 | 150.0 | 200.0 | H | 320.0 | 3.9 |
| 6039.375000 | --- | 33.67 | 54.00 | 20.34 | 150.0 | 100.0 | H | 184.0 | 3.9 |
| 8983.125000 | --- | 32.22 | 54.00 | 21.78 | 150.0 | 200.0 | V | 323.0 | 5.0 |
| 9005.625000 | 42.36 | --- | 74.00 | 31.64 | 150.0 | 200.0 | H | 228.0 | 5.0 |
| 13213.125000 | --- | 34.52 | 54.00 | 19.48 | 150.0 | 200.0 | H | 0.0 | 10.4 |
| 13325.625000 | 42.88 | --- | 74.00 | 31.12 | 150.0 | 100.0 | H | 346.0 | 10.9 |
| 17763.750000 | 51.48 | --- | 74.00 | 22.52 | 150.0 | 200.0 | H | 265.0 | 20.4 |
| 17896.875000 | --- | 42.19 | 54.00 | 11.81 | 150.0 | 200.0 | V | 31.0 | 20.6 |

802.11n (HT20) CH6



Final Result

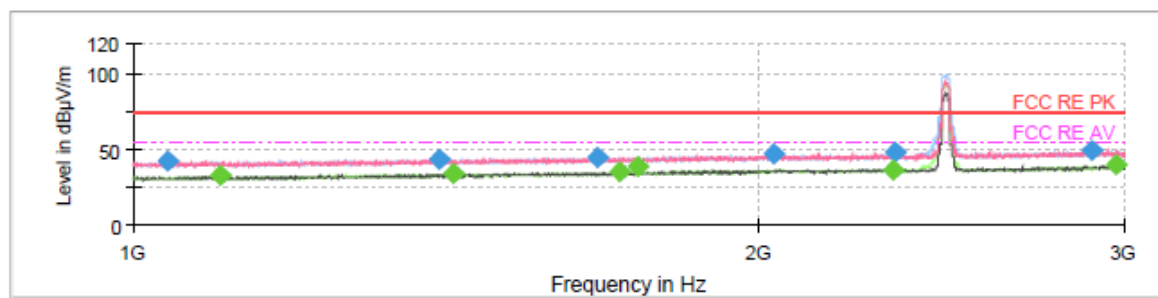
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1057.000000 | 42.57 | --- | 74.00 | 31.43 | 150.0 | 100.0 | V | 62.0 | -4.6 |
| 1168.750000 | --- | 32.90 | 54.00 | 21.10 | 150.0 | 100.0 | V | 31.0 | -3.8 |
| 1355.000000 | --- | 33.76 | 54.00 | 20.24 | 150.0 | 200.0 | V | 118.0 | -2.5 |
| 1393.000000 | 44.02 | --- | 74.00 | 29.98 | 150.0 | 200.0 | V | 197.0 | -2.2 |
| 1710.000000 | 45.20 | --- | 74.00 | 28.80 | 150.0 | 200.0 | H | 293.0 | -0.1 |
| 1711.750000 | --- | 34.80 | 54.00 | 19.20 | 150.0 | 200.0 | H | 227.0 | -0.1 |
| 1757.500000 | --- | 47.11 | 54.00 | 6.89 | 150.0 | 100.0 | H | 358.0 | 0.1 |
| 1757.750000 | 51.73 | --- | 74.00 | 22.27 | 150.0 | 200.0 | H | 358.0 | 0.1 |
| 2163.250000 | --- | 36.48 | 54.00 | 17.52 | 150.0 | 100.0 | H | 0.0 | 2.4 |
| 2179.500000 | 47.14 | --- | 74.00 | 26.86 | 150.0 | 200.0 | H | 67.0 | 2.4 |
| 2919.000000 | 49.75 | --- | 74.00 | 24.25 | 150.0 | 200.0 | H | 293.0 | 6.5 |
| 2982.250000 | --- | 39.31 | 54.00 | 14.69 | 150.0 | 200.0 | V | 97.0 | 6.8 |



Final Result

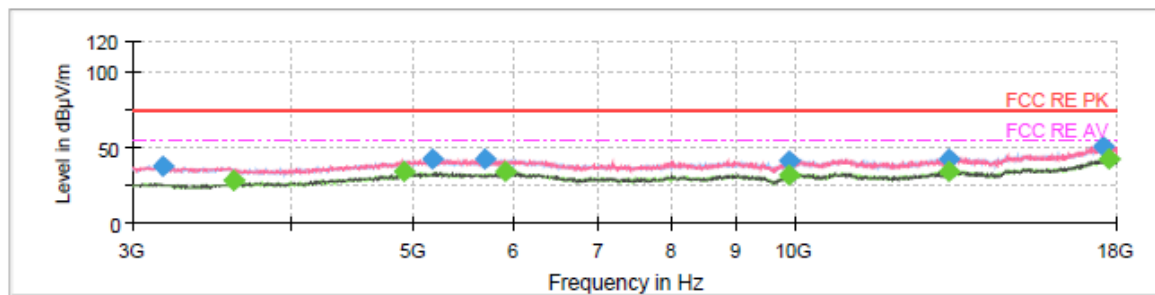
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3166.875000 | 37.52 | --- | 74.00 | 36.48 | 150.0 | 200.0 | V | 39.0 | -4.7 |
| 4040.625000 | --- | 27.13 | 54.00 | 26.87 | 150.0 | 100.0 | V | 108.0 | -3.6 |
| 5158.125000 | 42.18 | --- | 74.00 | 31.82 | 150.0 | 200.0 | V | 285.0 | 2.5 |
| 5325.000000 | --- | 33.32 | 54.00 | 20.68 | 150.0 | 200.0 | V | 318.0 | 2.5 |
| 5971.875000 | 42.01 | --- | 74.00 | 31.99 | 150.0 | 100.0 | H | 0.0 | 3.9 |
| 6063.750000 | --- | 33.71 | 54.00 | 20.29 | 150.0 | 200.0 | H | 270.0 | 3.8 |
| 9005.625000 | --- | 32.03 | 54.00 | 21.97 | 150.0 | 100.0 | V | 192.0 | 5.0 |
| 9165.000000 | 41.57 | --- | 74.00 | 32.43 | 150.0 | 100.0 | V | 44.0 | 5.1 |
| 13299.375000 | 43.54 | --- | 74.00 | 30.46 | 150.0 | 200.0 | H | 346.0 | 10.8 |
| 13321.875000 | --- | 33.81 | 54.00 | 20.19 | 150.0 | 200.0 | H | 167.0 | 10.9 |
| 17638.125000 | --- | 41.82 | 54.00 | 12.18 | 150.0 | 100.0 | H | 286.0 | 20.2 |
| 17910.000000 | 50.91 | --- | 74.00 | 23.09 | 150.0 | 200.0 | H | 248.0 | 20.6 |

802.11n (HT20) CH11



Final Result

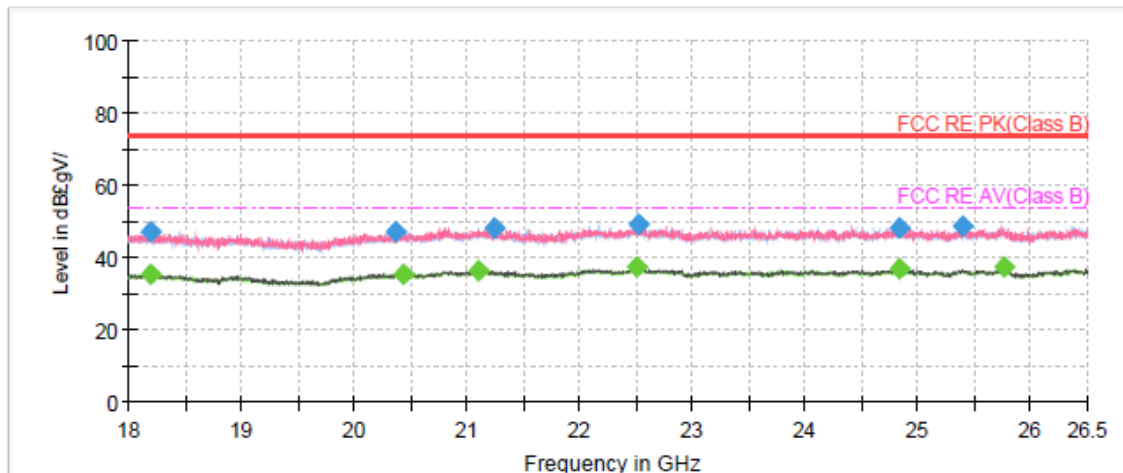
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1039.500000 | 42.55 | --- | 74.00 | 31.45 | 150.0 | 100.0 | V | 287.0 | -4.8 |
| 1101.750000 | --- | 32.83 | 54.00 | 21.17 | 150.0 | 200.0 | V | 31.0 | -4.2 |
| 1402.750000 | 43.91 | --- | 74.00 | 30.09 | 150.0 | 100.0 | V | 22.0 | -2.2 |
| 1425.250000 | --- | 34.27 | 54.00 | 19.73 | 150.0 | 200.0 | V | 53.0 | -2.0 |
| 1671.000000 | 44.52 | --- | 74.00 | 29.48 | 150.0 | 200.0 | V | 101.0 | -0.4 |
| 1714.750000 | --- | 34.91 | 54.00 | 19.09 | 150.0 | 100.0 | V | 136.0 | -0.1 |
| 1751.500000 | --- | 38.53 | 54.00 | 15.47 | 150.0 | 100.0 | H | 127.0 | 0.0 |
| 2033.500000 | 47.24 | --- | 74.00 | 26.76 | 150.0 | 200.0 | V | 0.0 | 1.8 |
| 2322.000000 | --- | 37.06 | 54.00 | 16.94 | 150.0 | 200.0 | V | 57.0 | 3.1 |
| 2329.500000 | 47.96 | --- | 74.00 | 26.04 | 150.0 | 100.0 | V | 141.0 | 3.3 |
| 2893.250000 | 49.19 | --- | 74.00 | 24.81 | 150.0 | 200.0 | V | 31.0 | 6.3 |
| 2973.750000 | --- | 39.44 | 54.00 | 14.56 | 150.0 | 200.0 | V | 26.0 | 6.8 |



Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3170.625000 | 37.43 | --- | 74.00 | 36.57 | 150.0 | 200.0 | V | 114.0 | -4.7 |
| 3611.250000 | --- | 27.80 | 54.00 | 26.20 | 150.0 | 100.0 | H | 281.0 | -4.2 |
| 4921.875000 | --- | 33.79 | 54.00 | 20.21 | 150.0 | 200.0 | H | 287.0 | 1.8 |
| 5176.875000 | 42.33 | --- | 74.00 | 31.67 | 150.0 | 100.0 | H | 248.0 | 2.5 |
| 5688.750000 | 42.09 | --- | 74.00 | 31.91 | 150.0 | 200.0 | H | 183.0 | 3.5 |
| 5921.250000 | --- | 33.88 | 54.00 | 20.12 | 150.0 | 100.0 | H | 194.0 | 3.8 |
| 9892.500000 | 41.14 | --- | 74.00 | 32.86 | 150.0 | 200.0 | H | 357.0 | 5.7 |
| 9898.125000 | --- | 31.71 | 54.00 | 22.29 | 150.0 | 100.0 | H | 260.0 | 5.8 |
| 13260.000000 | --- | 33.81 | 54.00 | 20.19 | 150.0 | 200.0 | H | 292.0 | 10.6 |
| 13273.125000 | 42.72 | --- | 74.00 | 31.28 | 150.0 | 200.0 | V | 22.0 | 10.7 |
| 17565.000000 | 51.06 | --- | 74.00 | 22.94 | 150.0 | 200.0 | V | 150.0 | 20.0 |
| 17767.500000 | --- | 42.39 | 54.00 | 11.61 | 150.0 | 200.0 | H | 216.0 | 20.4 |

During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes, are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

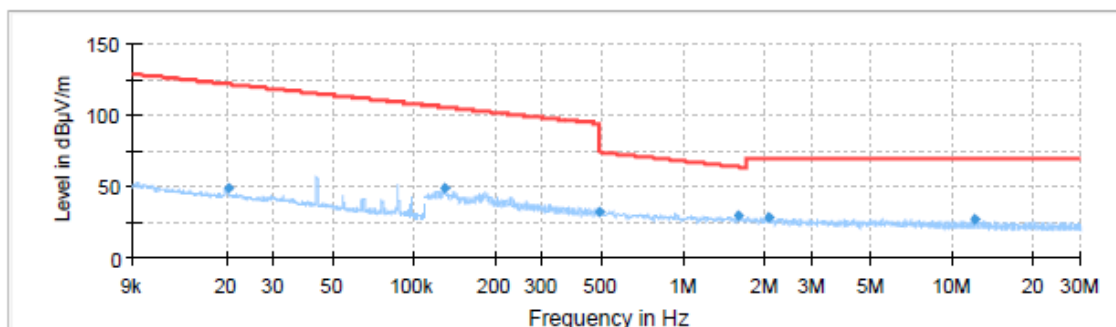


Final Result

| Frequency (MHz) | MaxPeak (dBµgV/m) | Average (dBµgV/m) | Limit (dBµgV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------|-------------------|-----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 18190.187500 | --- | 35.61 | 54.00 | 18.39 | 500.0 | 200.0 | V | 26.0 | -5.8 |
| 18191.250000 | 47.33 | --- | 74.00 | 26.67 | 500.0 | 100.0 | V | 0.0 | -5.8 |
| 20368.312500 | 47.23 | --- | 74.00 | 26.77 | 500.0 | 200.0 | H | 341.0 | -5.3 |
| 20443.750000 | --- | 35.62 | 54.00 | 18.38 | 500.0 | 200.0 | V | 3.0 | -5.0 |
| 21095.062500 | --- | 36.66 | 54.00 | 17.34 | 500.0 | 200.0 | V | 169.0 | -4.1 |
| 21247.000000 | 48.21 | --- | 74.00 | 25.79 | 500.0 | 200.0 | V | 35.0 | -4.4 |
| 22508.187500 | --- | 37.34 | 54.00 | 16.66 | 500.0 | 200.0 | V | 44.0 | -3.4 |
| 22515.625000 | 49.45 | --- | 74.00 | 24.55 | 500.0 | 200.0 | V | 30.0 | -3.4 |
| 24826.562500 | 48.07 | --- | 74.00 | 25.93 | 500.0 | 200.0 | V | 58.0 | -2.8 |
| 24838.250000 | --- | 36.77 | 54.00 | 17.23 | 500.0 | 200.0 | H | 270.0 | -2.8 |
| 25390.750000 | 48.94 | --- | 74.00 | 25.06 | 500.0 | 100.0 | V | 335.0 | -2.6 |
| 25757.312500 | --- | 37.36 | 54.00 | 16.64 | 500.0 | 100.0 | V | 241.0 | -2.4 |

Bluetooth LE

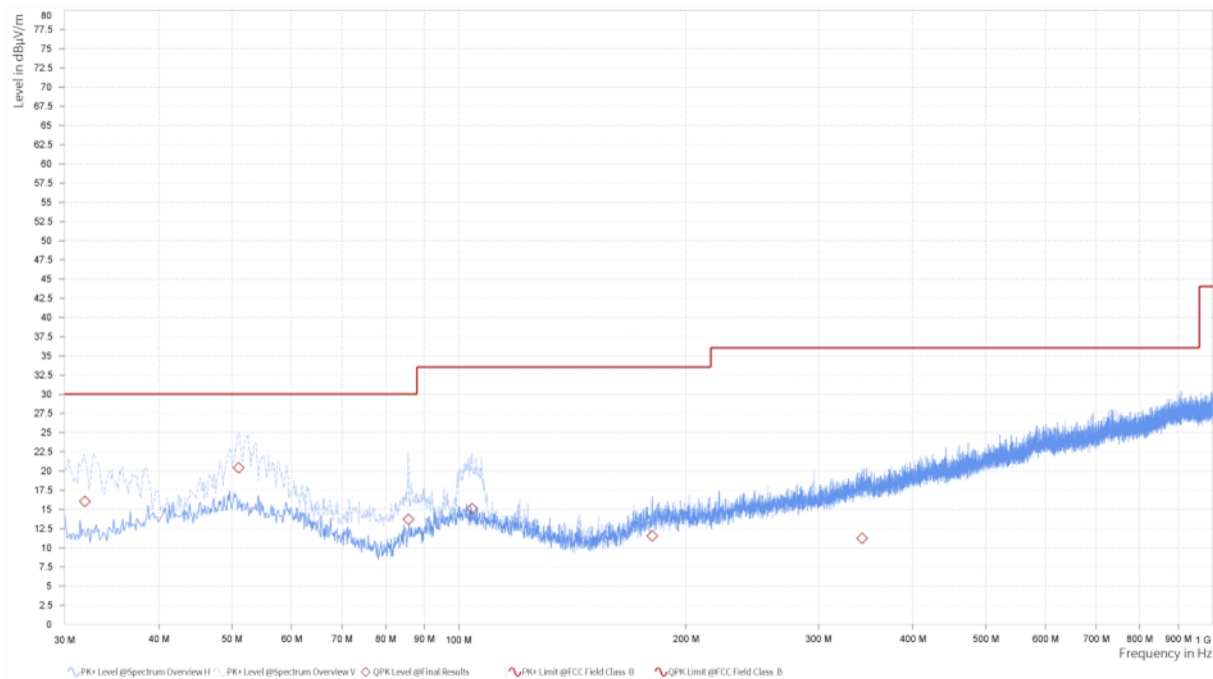
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes, are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|--------------|
| 0.02 | 49.03 | 121.45 | 72.41 | 500.00 | 0.200 | V | 222.00 | 17 |
| 0.13 | 48.45 | 105.32 | 56.87 | 150.00 | 9.000 | V | 94.00 | 17 |
| 0.49 | 31.42 | 73.80 | 42.38 | 150.00 | 9.000 | V | 123.00 | 17 |
| 1.61 | 29.05 | 63.47 | 34.42 | 150.00 | 9.000 | V | 61.00 | 17 |
| 2.09 | 27.63 | 69.50 | 41.87 | 150.00 | 9.000 | V | 196.00 | 17 |
| 12.11 | 26.95 | 69.50 | 42.55 | 150.00 | 9.000 | V | 355.00 | 17 |

Radiates Emission from 9kHz to 30MHz

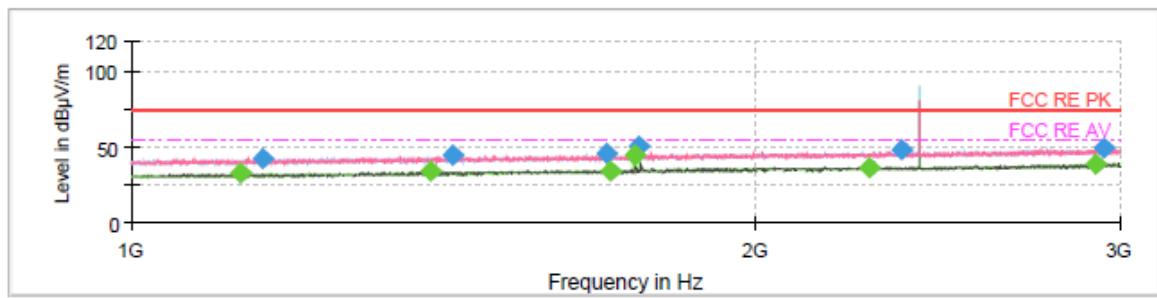


EMI Final Results

| Rg | Frequency [MHz] | QPK Level [dBμV/m] | QPK Limit [dBμV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] | Meas. Time [s] | Time of Meas. | Source |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|----------------|---------------|-----------------|
| 1 | 31.909 | 15.99 | 30.00 | 14.01 | -12.07 | V | 115.2 | 1.14 | 120.000 | 1.000 | 0:44:08 | Critical Points |
| 1 | 51.059 | 20.38 | 30.00 | 9.62 | -8.45 | V | 338.5 | 1.25 | 120.000 | 1.000 | 0:47:33 | Critical Points |
| 1 | 85.753 | 13.65 | 30.00 | 16.35 | -12.76 | V | 253 | 1.95 | 120.000 | 1.000 | 0:42:19 | Critical Points |
| 1 | 104.117 | 15.05 | 33.50 | 18.45 | -9.98 | V | 212.2 | 1.89 | 120.000 | 1.000 | 0:36:18 | Critical Points |
| 1 | 180.432 | 11.50 | 33.50 | 22.00 | -11.63 | H | 260.8 | 2.21 | 120.000 | 1.000 | 0:34:17 | Critical Points |
| 1 | 342.547 | 11.20 | 36.00 | 24.80 | -5.87 | V | 274.4 | 1.11 | 120.000 | 1.000 | 0:45:58 | Critical Points |

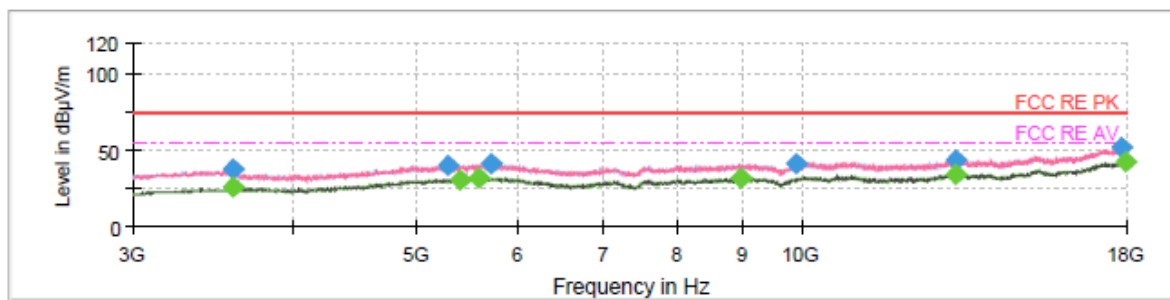
Radiates Emission from 30MHz to 1GHz

Bluetooth LE-Channel 0



Final Result

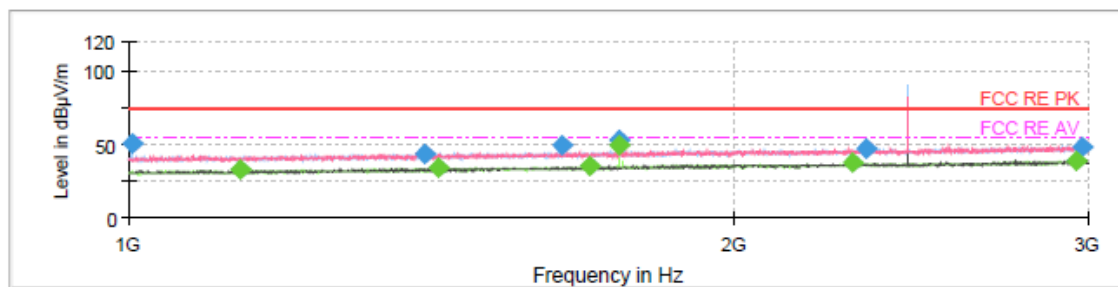
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1128.750000 | --- | 32.69 | 54.00 | 21.31 | 150.0 | 100.0 | V | 215.0 | -4.1 |
| 1158.000000 | 42.26 | --- | 74.00 | 31.74 | 150.0 | 200.0 | V | 20.0 | -3.8 |
| 1395.250000 | --- | 33.54 | 54.00 | 20.46 | 150.0 | 100.0 | H | 180.0 | -2.2 |
| 1430.250000 | 44.68 | --- | 74.00 | 29.32 | 150.0 | 100.0 | H | 359.0 | -2.0 |
| 1695.750000 | 45.63 | --- | 74.00 | 28.37 | 150.0 | 200.0 | H | 352.0 | -0.3 |
| 1703.000000 | --- | 34.70 | 54.00 | 19.30 | 150.0 | 200.0 | V | 157.0 | -0.2 |
| 1747.750000 | --- | 44.95 | 54.00 | 9.05 | 150.0 | 200.0 | H | 347.0 | 0.0 |
| 1756.000000 | 50.58 | --- | 74.00 | 23.42 | 150.0 | 100.0 | H | 316.0 | 0.1 |
| 2271.500000 | --- | 36.93 | 54.00 | 17.07 | 150.0 | 200.0 | V | 3.0 | 2.9 |
| 2351.500000 | 47.69 | --- | 74.00 | 26.31 | 150.0 | 200.0 | V | 25.0 | 3.1 |
| 2923.250000 | --- | 39.33 | 54.00 | 14.67 | 150.0 | 200.0 | H | 329.0 | 6.5 |
| 2947.750000 | 49.10 | --- | 74.00 | 24.90 | 150.0 | 200.0 | V | 3.0 | 6.6 |



Final Result

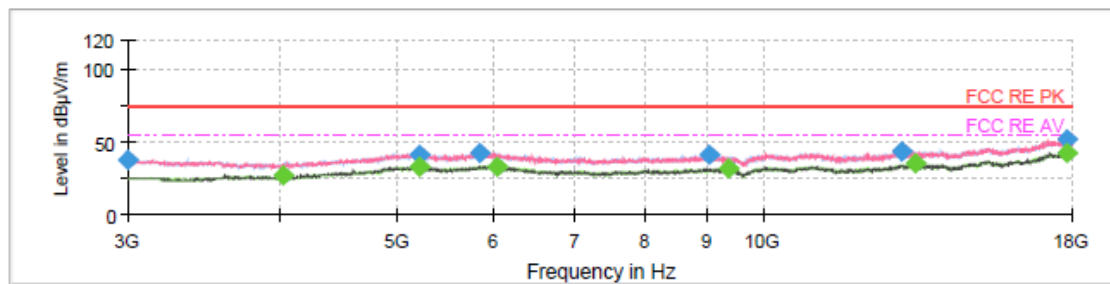
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3590.625000 | --- | 26.00 | 54.00 | 28.00 | 150.0 | 200.0 | V | 288.0 | -4.1 |
| 3590.625000 | 37.53 | --- | 74.00 | 36.47 | 150.0 | 100.0 | V | 288.0 | -4.1 |
| 5296.875000 | 40.26 | --- | 74.00 | 33.74 | 150.0 | 200.0 | H | 0.0 | 2.5 |
| 5418.750000 | --- | 30.95 | 54.00 | 23.05 | 150.0 | 100.0 | H | 1.0 | 2.7 |
| 5600.625000 | --- | 32.04 | 54.00 | 21.96 | 150.0 | 200.0 | V | 169.0 | 3.2 |
| 5715.000000 | 40.79 | --- | 74.00 | 33.21 | 150.0 | 100.0 | H | 274.0 | 3.6 |
| 8983.125000 | --- | 31.93 | 54.00 | 22.07 | 150.0 | 100.0 | V | 359.0 | 5.0 |
| 9903.750000 | 41.33 | --- | 74.00 | 32.67 | 150.0 | 200.0 | V | 142.0 | 5.8 |
| 13211.250000 | --- | 34.27 | 54.00 | 19.73 | 150.0 | 200.0 | V | 87.0 | 10.4 |
| 13215.000000 | 43.20 | --- | 74.00 | 30.80 | 150.0 | 200.0 | V | 76.0 | 10.4 |
| 17780.625000 | 51.57 | --- | 74.00 | 22.43 | 150.0 | 100.0 | H | 104.0 | 20.4 |
| 17926.875000 | --- | 42.15 | 54.00 | 11.85 | 150.0 | 200.0 | V | 21.0 | 20.4 |

Bluetooth LE-Channel 19



Final Result

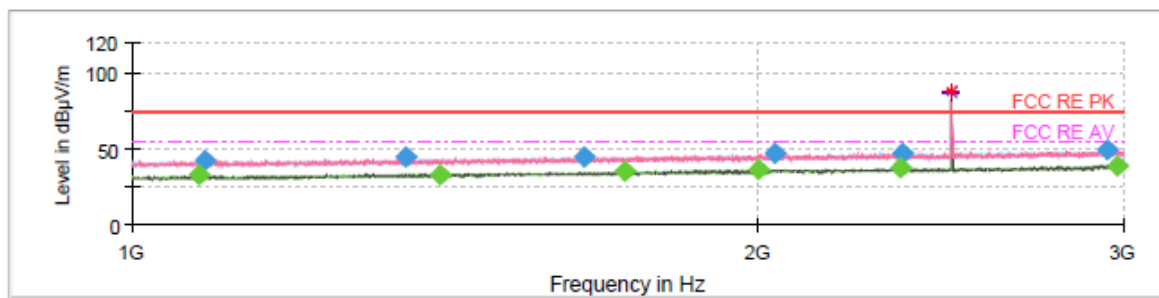
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1003.500000 | 50.57 | --- | 74.00 | 23.43 | 150.0 | 200.0 | H | 312.0 | -5.0 |
| 1135.500000 | --- | 32.47 | 54.00 | 21.53 | 150.0 | 100.0 | V | 37.0 | -4.1 |
| 1404.250000 | 43.71 | --- | 74.00 | 30.29 | 150.0 | 100.0 | V | 274.0 | -2.2 |
| 1427.000000 | --- | 33.62 | 54.00 | 20.38 | 150.0 | 200.0 | V | 326.0 | -2.0 |
| 1644.250000 | 49.94 | --- | 74.00 | 24.06 | 150.0 | 200.0 | H | 308.0 | -0.6 |
| 1694.500000 | --- | 34.72 | 54.00 | 19.28 | 150.0 | 100.0 | H | 169.0 | -0.4 |
| 1753.750000 | 53.45 | --- | 74.00 | 20.55 | 150.0 | 200.0 | H | 23.0 | 0.1 |
| 1753.750000 | --- | 48.85 | 54.00 | 5.15 | 150.0 | 200.0 | H | 23.0 | 0.1 |
| 2292.250000 | --- | 37.32 | 54.00 | 16.68 | 150.0 | 100.0 | V | 317.0 | 2.9 |
| 2326.750000 | 47.27 | --- | 74.00 | 26.73 | 150.0 | 200.0 | V | 353.0 | 3.2 |
| 2960.250000 | --- | 39.28 | 54.00 | 14.72 | 150.0 | 200.0 | H | 50.0 | 6.7 |
| 2983.000000 | 48.82 | --- | 74.00 | 25.18 | 150.0 | 200.0 | V | 247.0 | 6.8 |



Final Result

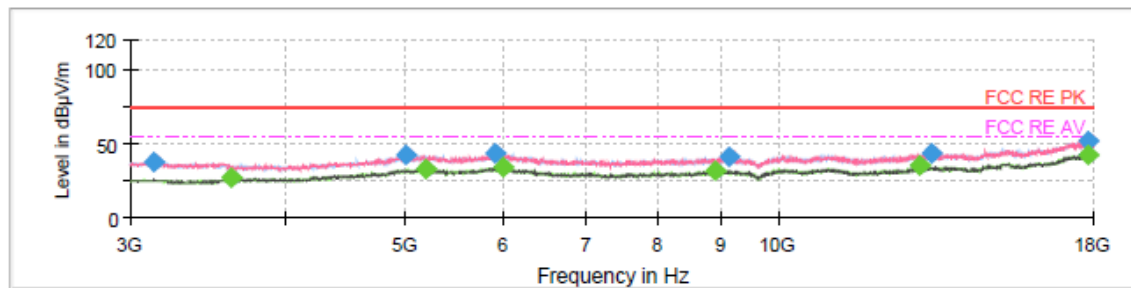
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3000.000000 | 37.69 | --- | 74.00 | 36.31 | 150.0 | 200.0 | V | 71.0 | -5.0 |
| 4033.125000 | --- | 27.17 | 54.00 | 26.83 | 150.0 | 100.0 | V | 251.0 | -3.7 |
| 5206.875000 | 41.70 | --- | 74.00 | 32.30 | 150.0 | 100.0 | H | 165.0 | 2.5 |
| 5206.875000 | --- | 33.10 | 54.00 | 20.90 | 150.0 | 200.0 | H | 165.0 | 2.5 |
| 5857.500000 | 42.20 | --- | 74.00 | 31.80 | 150.0 | 200.0 | V | 87.0 | 3.9 |
| 6043.125000 | --- | 33.45 | 54.00 | 20.55 | 150.0 | 100.0 | H | 310.0 | 3.9 |
| 9026.250000 | 41.06 | --- | 74.00 | 32.94 | 150.0 | 200.0 | V | 8.0 | 5.0 |
| 9388.125000 | --- | 31.71 | 54.00 | 22.29 | 150.0 | 200.0 | H | 261.0 | 5.4 |
| 13023.750000 | 43.07 | --- | 74.00 | 30.93 | 150.0 | 100.0 | V | 0.0 | 11.0 |
| 13329.375000 | --- | 35.11 | 54.00 | 18.89 | 150.0 | 200.0 | H | 0.0 | 10.9 |
| 17786.250000 | --- | 42.16 | 54.00 | 11.84 | 150.0 | 200.0 | H | 0.0 | 20.4 |
| 17790.000000 | 51.49 | --- | 74.00 | 22.51 | 150.0 | 200.0 | H | 203.0 | 20.4 |

Bluetooth LE-Channel 39



Final Result

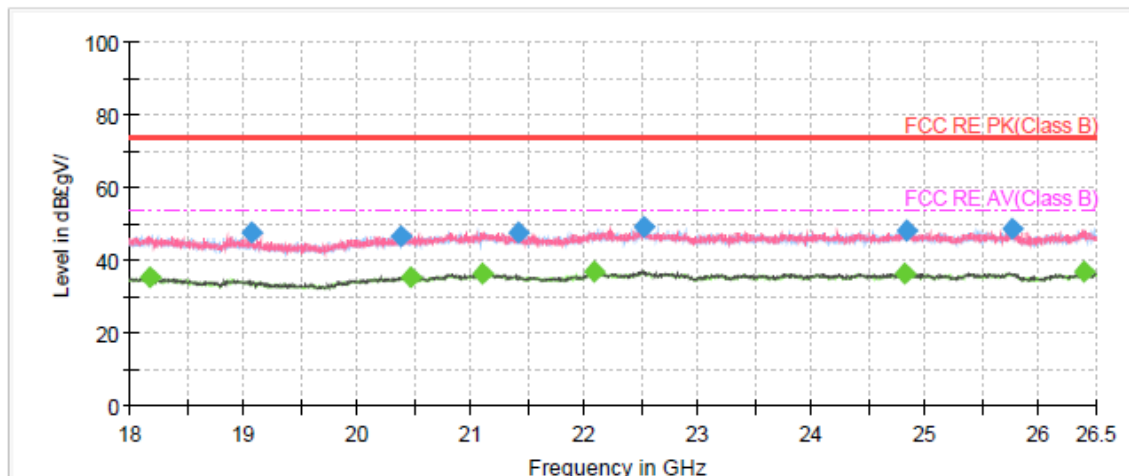
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1076.750000 | --- | 32.42 | 54.00 | 21.58 | 150.0 | 100.0 | H | 112.0 | -4.5 |
| 1083.500000 | 42.49 | --- | 74.00 | 31.51 | 150.0 | 100.0 | V | 355.0 | -4.5 |
| 1353.500000 | 44.39 | --- | 74.00 | 29.61 | 150.0 | 200.0 | H | 51.0 | -2.5 |
| 1407.500000 | --- | 33.50 | 54.00 | 20.50 | 150.0 | 200.0 | V | 1.0 | -2.1 |
| 1651.250000 | 45.03 | --- | 74.00 | 28.97 | 150.0 | 200.0 | V | 266.0 | -0.5 |
| 1726.250000 | --- | 34.94 | 54.00 | 19.06 | 150.0 | 100.0 | V | 214.0 | -0.1 |
| 2002.000000 | --- | 36.28 | 54.00 | 17.72 | 150.0 | 200.0 | H | 134.0 | 1.7 |
| 2039.750000 | 46.51 | --- | 74.00 | 27.49 | 150.0 | 200.0 | H | 232.0 | 1.9 |
| 2345.500000 | --- | 37.25 | 54.00 | 16.75 | 150.0 | 200.0 | H | 26.0 | 3.2 |
| 2348.000000 | 46.72 | --- | 74.00 | 27.28 | 150.0 | 200.0 | H | 21.0 | 3.2 |
| 2947.000000 | 48.95 | --- | 74.00 | 25.05 | 150.0 | 100.0 | H | 39.0 | 6.6 |
| 2981.000000 | --- | 39.40 | 54.00 | 14.60 | 150.0 | 200.0 | H | 241.0 | 6.8 |



Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 3140.625000 | 37.97 | --- | 74.00 | 36.03 | 150.0 | 100.0 | H | 301.0 | -4.6 |
| 3624.375000 | --- | 26.83 | 54.00 | 27.17 | 150.0 | 200.0 | H | 132.0 | -4.1 |
| 5013.750000 | 42.13 | --- | 74.00 | 31.87 | 150.0 | 100.0 | V | 193.0 | 2.4 |
| 5203.125000 | --- | 33.40 | 54.00 | 20.60 | 150.0 | 200.0 | V | 2.0 | 2.5 |
| 5906.250000 | 43.33 | --- | 74.00 | 30.67 | 150.0 | 100.0 | H | 16.0 | 3.8 |
| 5994.375000 | --- | 33.57 | 54.00 | 20.43 | 150.0 | 200.0 | V | 116.0 | 3.9 |
| 8902.500000 | --- | 31.72 | 54.00 | 22.28 | 150.0 | 200.0 | H | 252.0 | 5.1 |
| 9125.625000 | 40.60 | --- | 74.00 | 33.40 | 150.0 | 100.0 | H | 149.0 | 5.1 |
| 13012.500000 | --- | 34.74 | 54.00 | 19.26 | 150.0 | 200.0 | V | 67.0 | 10.9 |
| 13284.375000 | 43.24 | --- | 74.00 | 30.76 | 150.0 | 200.0 | H | 170.0 | 10.8 |
| 17773.125000 | --- | 42.11 | 54.00 | 11.89 | 150.0 | 100.0 | V | 182.0 | 20.4 |
| 17790.000000 | 51.87 | --- | 74.00 | 22.13 | 150.0 | 200.0 | V | 188.0 | 20.4 |

During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes, are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 18181.687500 | --- | 35.41 | 54.00 | 18.59 | 500.0 | 100.0 | H | 224.0 | -5.8 |
| 19065.687500 | 47.45 | --- | 74.00 | 26.55 | 500.0 | 200.0 | V | 208.0 | -7.4 |
| 20380.000000 | 46.89 | --- | 74.00 | 27.11 | 500.0 | 100.0 | V | 338.0 | -5.2 |
| 20467.125000 | --- | 35.63 | 54.00 | 18.37 | 500.0 | 200.0 | V | 0.0 | -4.9 |
| 21108.875000 | --- | 36.53 | 54.00 | 17.47 | 500.0 | 100.0 | V | 6.0 | -4.1 |
| 21410.625000 | 47.85 | --- | 74.00 | 26.15 | 500.0 | 200.0 | V | 0.0 | -4.5 |
| 22091.687500 | --- | 37.06 | 54.00 | 16.94 | 500.0 | 100.0 | V | 207.0 | -3.8 |
| 22515.625000 | 48.98 | --- | 74.00 | 25.02 | 500.0 | 100.0 | V | 240.0 | -3.4 |
| 24814.875000 | --- | 36.65 | 54.00 | 17.35 | 500.0 | 200.0 | H | 226.0 | -2.7 |
| 24827.625000 | 48.29 | --- | 74.00 | 25.71 | 500.0 | 100.0 | H | 0.0 | -2.8 |
| 25765.812500 | 48.62 | --- | 74.00 | 25.38 | 500.0 | 200.0 | V | 184.0 | -2.4 |
| 26401.187500 | --- | 37.02 | 54.00 | 16.98 | 500.0 | 100.0 | V | 333.0 | -2.2 |

5.7. Conducted Emission

Ambient Condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 15°C ~ 35°C | 20% ~ 80% |

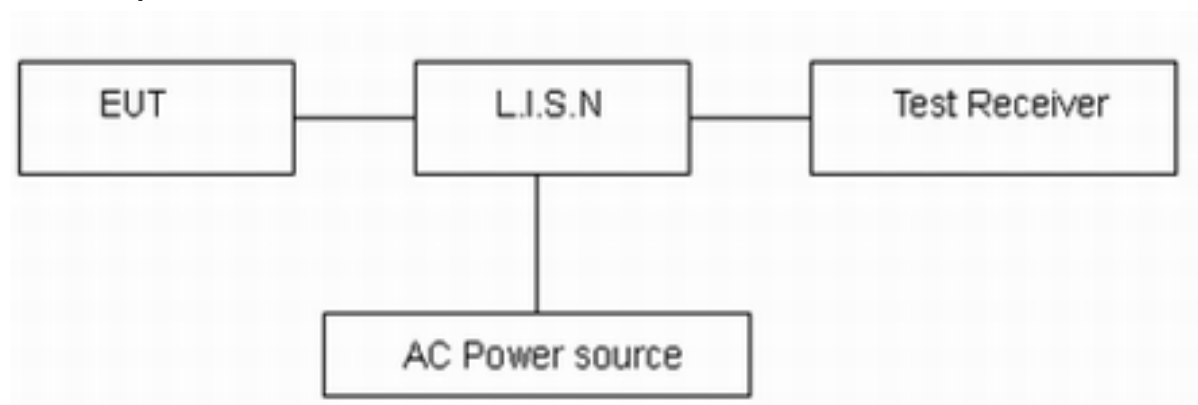
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 120V/60Hz.

Limits

| Frequency (MHz) | Conducted Limits(dBμV) | |
|---|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 * | 56 to 46* |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |
| *: Decreases with the logarithm of the frequency. | | |

Measurement Uncertainty

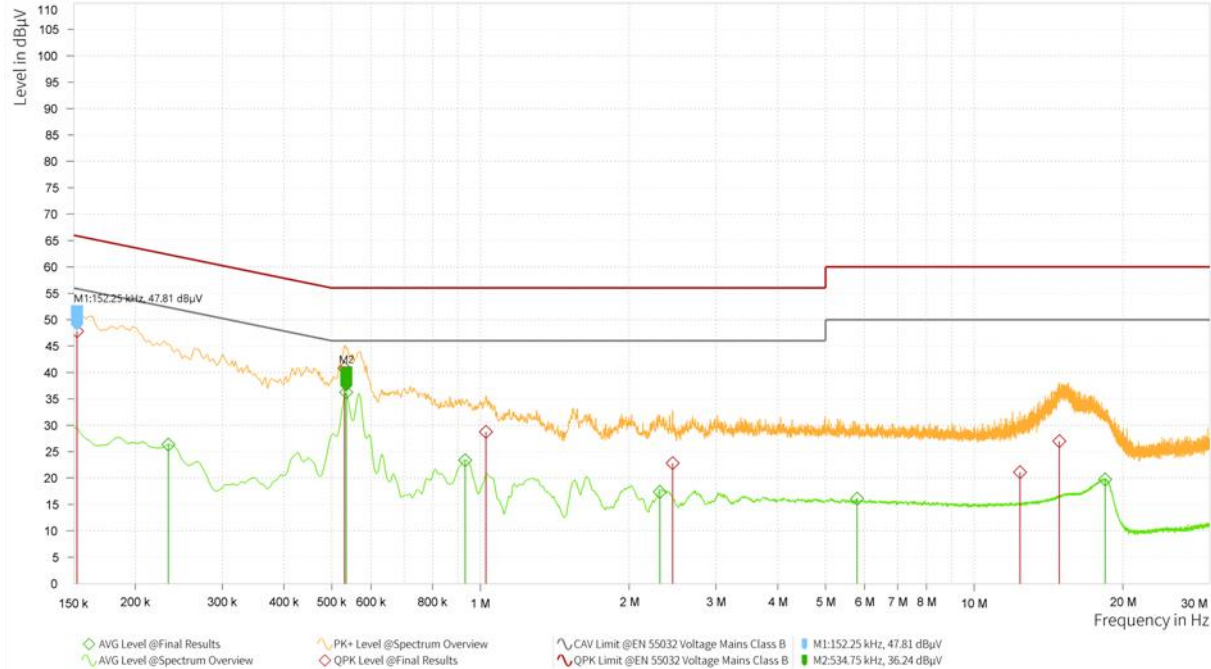
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection.

Wi-Fi 2.4GHz

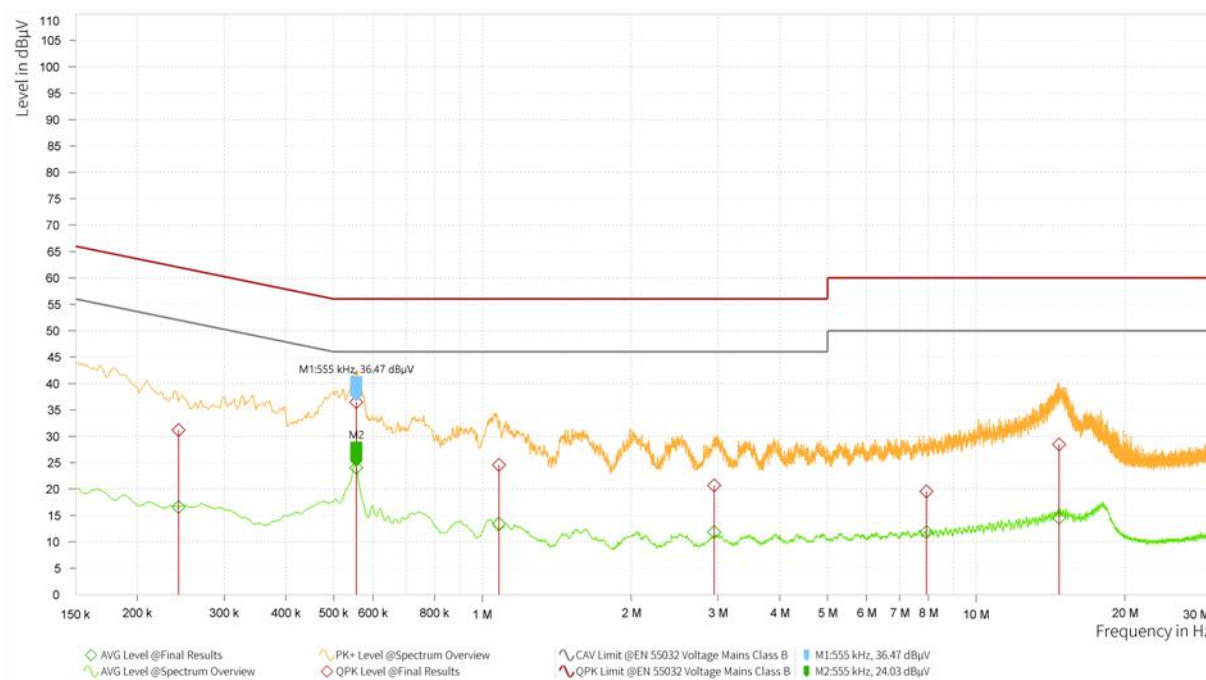
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Corr. (dB/m) | Line | Meas. Time (s) |
|-----------------|------------------|--------------|-------------|----------------|--------------|-------------|--------------|------|----------------|
| 0.152 | 47.81 | 65.88 | 18.07 | -- | -- | -- | 20.90 | L1 | 1.000 |
| 0.233 | -- | -- | -- | 26.31 | 52.33 | 26.03 | 20.99 | L1 | 1.000 |
| 0.530 | 40.82 | 56.00 | 15.18 | -- | -- | -- | 20.75 | L1 | 1.000 |
| 0.535 | -- | -- | -- | 36.24 | 46.00 | 9.76 | 20.74 | L1 | 1.000 |
| 0.931 | -- | -- | -- | 23.40 | 46.00 | 22.60 | 20.22 | L1 | 1.000 |
| 1.025 | 28.76 | 56.00 | 27.24 | -- | -- | -- | 20.14 | L1 | 1.000 |
| 2.308 | -- | -- | -- | 17.35 | 46.00 | 28.65 | 19.58 | L1 | 1.000 |
| 2.450 | 22.82 | 56.00 | 33.18 | -- | -- | -- | 19.55 | L1 | 1.000 |
| 5.795 | -- | -- | -- | 16.10 | 50.00 | 33.90 | 19.40 | L1 | 1.000 |
| 12.381 | 21.12 | 60.00 | 38.88 | -- | -- | -- | 19.43 | L1 | 1.000 |
| 14.883 | 26.98 | 60.00 | 33.02 | -- | -- | -- | 19.50 | L1 | 1.000 |
| 18.427 | -- | -- | -- | 19.74 | 50.00 | 30.26 | 19.61 | L1 | 1.000 |

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



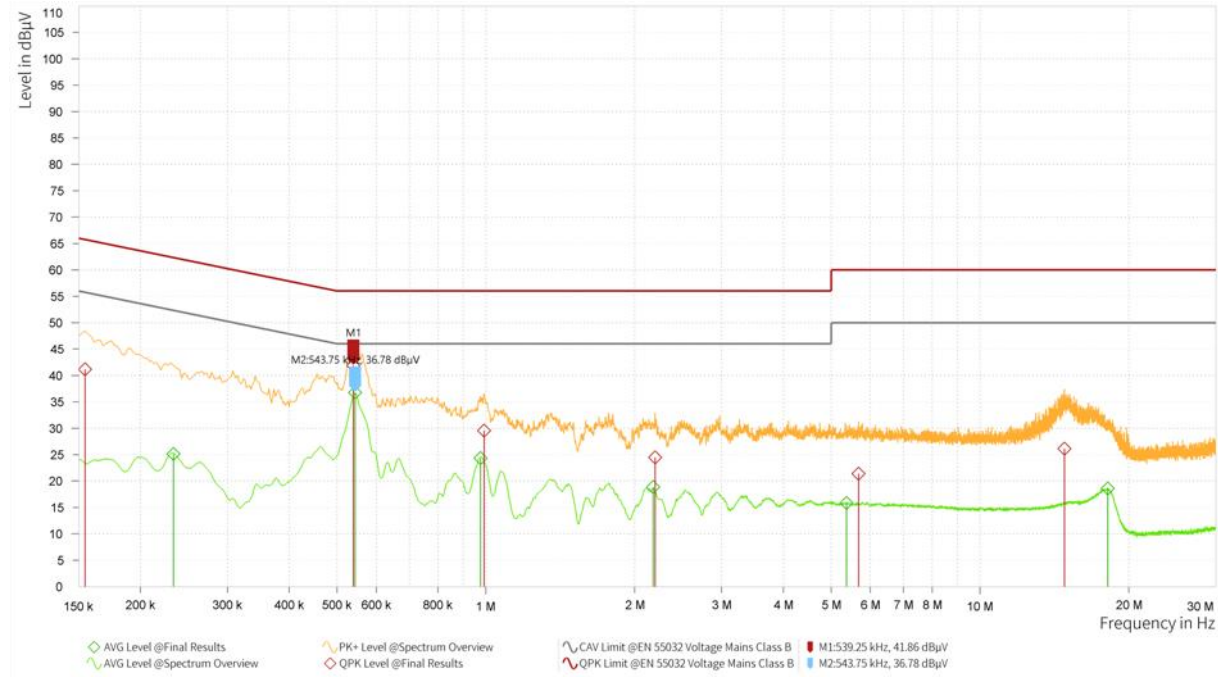
| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Corr. (dB/m) | Line | Meas. Time (s) |
|-----------------|------------------|--------------|-------------|----------------|--------------|-------------|--------------|------|----------------|
| 0.242 | 31.18 | 62.02 | 30.84 | -- | -- | -- | 20.99 | N | 1.000 |
| 0.555 | 36.47 | 56.00 | 19.53 | -- | -- | -- | 20.73 | N | 1.000 |
| 1.079 | 24.58 | 56.00 | 31.42 | -- | -- | -- | 20.11 | N | 1.000 |
| 2.947 | 20.68 | 56.00 | 35.32 | -- | -- | -- | 19.50 | N | 1.000 |
| 7.926 | 19.57 | 60.00 | 40.43 | -- | -- | -- | 19.41 | N | 1.000 |
| 14.721 | 28.46 | 60.00 | 31.54 | -- | -- | -- | 19.52 | N | 1.000 |
| 0.242 | -- | -- | -- | 16.60 | 52.02 | 35.42 | 20.99 | N | 1.000 |
| 0.555 | -- | -- | -- | 24.03 | 46.00 | 21.97 | 20.73 | N | 1.000 |
| 1.079 | -- | -- | -- | 13.44 | 46.00 | 32.56 | 20.11 | N | 1.000 |
| 2.947 | -- | -- | -- | 11.85 | 46.00 | 34.15 | 19.50 | N | 1.000 |
| 7.926 | -- | -- | -- | 11.87 | 50.00 | 38.13 | 19.41 | N | 1.000 |
| 14.721 | -- | -- | -- | 14.57 | 50.00 | 35.43 | 19.52 | N | 1.000 |

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

Bluetooth LE

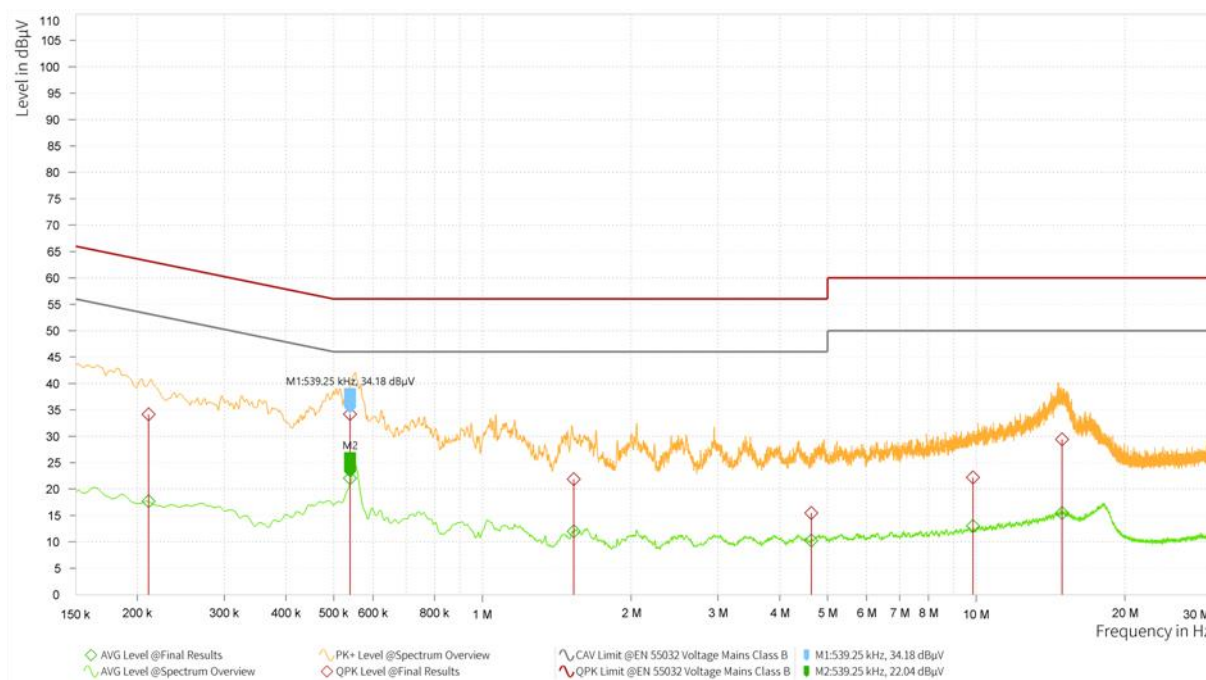
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Corr. (dB/m) | Line | Meas. Time (s) |
|-----------------|------------------|--------------|-------------|----------------|--------------|-------------|--------------|------|----------------|
| 0.155 | 41.17 | 65.75 | 24.58 | -- | -- | -- | 20.90 | L1 | 1.000 |
| 0.233 | -- | -- | -- | 25.13 | 52.33 | 27.21 | 20.99 | L1 | 1.000 |
| 0.539 | 41.86 | 56.00 | 14.14 | -- | -- | -- | 20.74 | L1 | 1.000 |
| 0.544 | -- | -- | -- | 36.78 | 46.00 | 9.22 | 20.73 | L1 | 1.000 |
| 0.976 | -- | -- | -- | 24.36 | 46.00 | 21.64 | 20.18 | L1 | 1.000 |
| 0.992 | 29.57 | 56.00 | 26.43 | -- | -- | -- | 20.17 | L1 | 1.000 |
| 2.180 | -- | -- | -- | 18.88 | 46.00 | 27.12 | 19.60 | L1 | 1.000 |
| 2.200 | 24.46 | 56.00 | 31.54 | -- | -- | -- | 19.60 | L1 | 1.000 |
| 5.370 | -- | -- | -- | 15.84 | 50.00 | 34.16 | 19.40 | L1 | 1.000 |
| 5.678 | 21.42 | 60.00 | 38.58 | -- | -- | -- | 19.40 | L1 | 1.000 |
| 14.816 | 26.13 | 60.00 | 33.87 | -- | -- | -- | 19.50 | L1 | 1.000 |
| 18.139 | -- | -- | -- | 18.57 | 50.00 | 31.43 | 19.60 | L1 | 1.000 |

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Corr. (dB/m) | Line | Meas. Time (s) |
|-----------------|------------------|--------------|-------------|----------------|--------------|-------------|--------------|------|----------------|
| 0.211 | 34.16 | 63.18 | 29.02 | -- | -- | -- | 21.02 | N | 1.000 |
| 0.539 | 34.18 | 56.00 | 21.82 | -- | -- | -- | 20.75 | N | 1.000 |
| 1.532 | 21.86 | 56.00 | 34.14 | -- | -- | -- | 19.84 | N | 1.000 |
| 4.632 | 15.46 | 56.00 | 40.54 | -- | -- | -- | 19.42 | N | 1.000 |
| 9.850 | 22.19 | 60.00 | 37.81 | -- | -- | -- | 19.43 | N | 1.000 |
| 14.928 | 29.40 | 60.00 | 30.60 | -- | -- | -- | 19.53 | N | 1.000 |
| 0.211 | -- | -- | -- | 17.69 | 53.18 | 35.49 | 21.02 | N | 1.000 |
| 0.539 | -- | -- | -- | 22.04 | 46.00 | 23.96 | 20.75 | N | 1.000 |
| 1.532 | -- | -- | -- | 12.00 | 46.00 | 34.00 | 19.84 | N | 1.000 |
| 4.632 | -- | -- | -- | 10.25 | 46.00 | 35.75 | 19.42 | N | 1.000 |
| 9.850 | -- | -- | -- | 12.99 | 50.00 | 37.01 | 19.43 | N | 1.000 |
| 14.928 | -- | -- | -- | 15.47 | 50.00 | 34.53 | 19.53 | N | 1.000 |

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

6. Main Test Instruments

| Name of Equipment | Manufacturer | Type/Model | Serial Number | Calibration Date | Expiration Time |
|--------------------------|--------------|---------------|---------------|------------------|-----------------|
| Power sensor | R&S | NRP18S | 101954 | 2024-05-07 | 2025-05-06 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51330870 | 2024-05-07 | 2025-05-06 |
| Radiated Emission | | | | | |
| EMI Test Receiver | R&S | ESCI3 | 100948 | 2024-05-07 | 2025-05-06 |
| Loop Antenna | SCHWARZBECK | FMZB1519 | 1519-047 | 2023-04-16 | 2026-04-15 |
| EMI Test Receiver | R&S | ESR | 102389 | 2024-05-07 | 2025-05-06 |
| Signal Analyzer | R&S | FSV40 | 101298 | 2024-05-07 | 2025-05-06 |
| TRILOG Broadband Antenna | SCHWARZBECK | VULB 9163 | 01111 | 2022-10-25 | 2025-10-24 |
| Horn Antenna | R&S | HF 907 | 102723 | 2023-11-24 | 2026-11-23 |
| Amplifier | R&S | SCU18 | 10034 | 2024-05-08 | 2025-05-07 |
| Horn Antenna | ETS-Lindgren | 3160-09 | 00102643 | 2024-09-24 | 2027-09-23 |
| Amplifier | MicroWave | KLNA-18040050 | 220826001 | 2024-05-08 | 2025-05-07 |
| Software | R&S | EMC32 | 9.26.01 | / | / |
| Conducted Emission | | | | | |
| Artificial main network | R&S | ENV216 | 102191 | 2024-12-02 | 2026-12-01 |
| EMI Test Receiver | R&S | ESR | 101667 | 2024-05-07 | 2025-05-06 |
| Software | R&S | EMC32 | 10.35.10 | / | / |

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

***** END OF REPORT *****