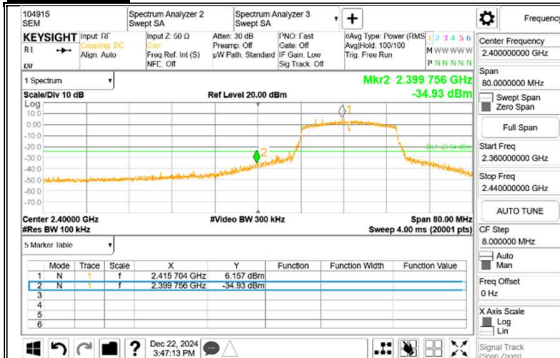


### 10.5.3. 802.11n HT20 MODE

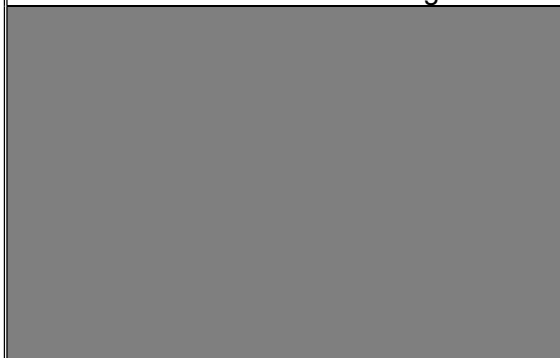
#### 2TX ANT1



2 Channel Band-edge



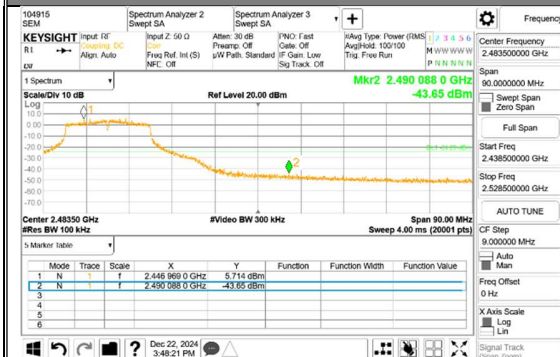
Out-Of-Band 2 Channel



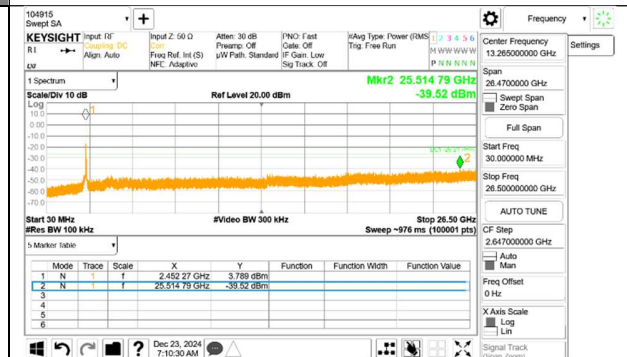
Out-Of-Band 2 Channel



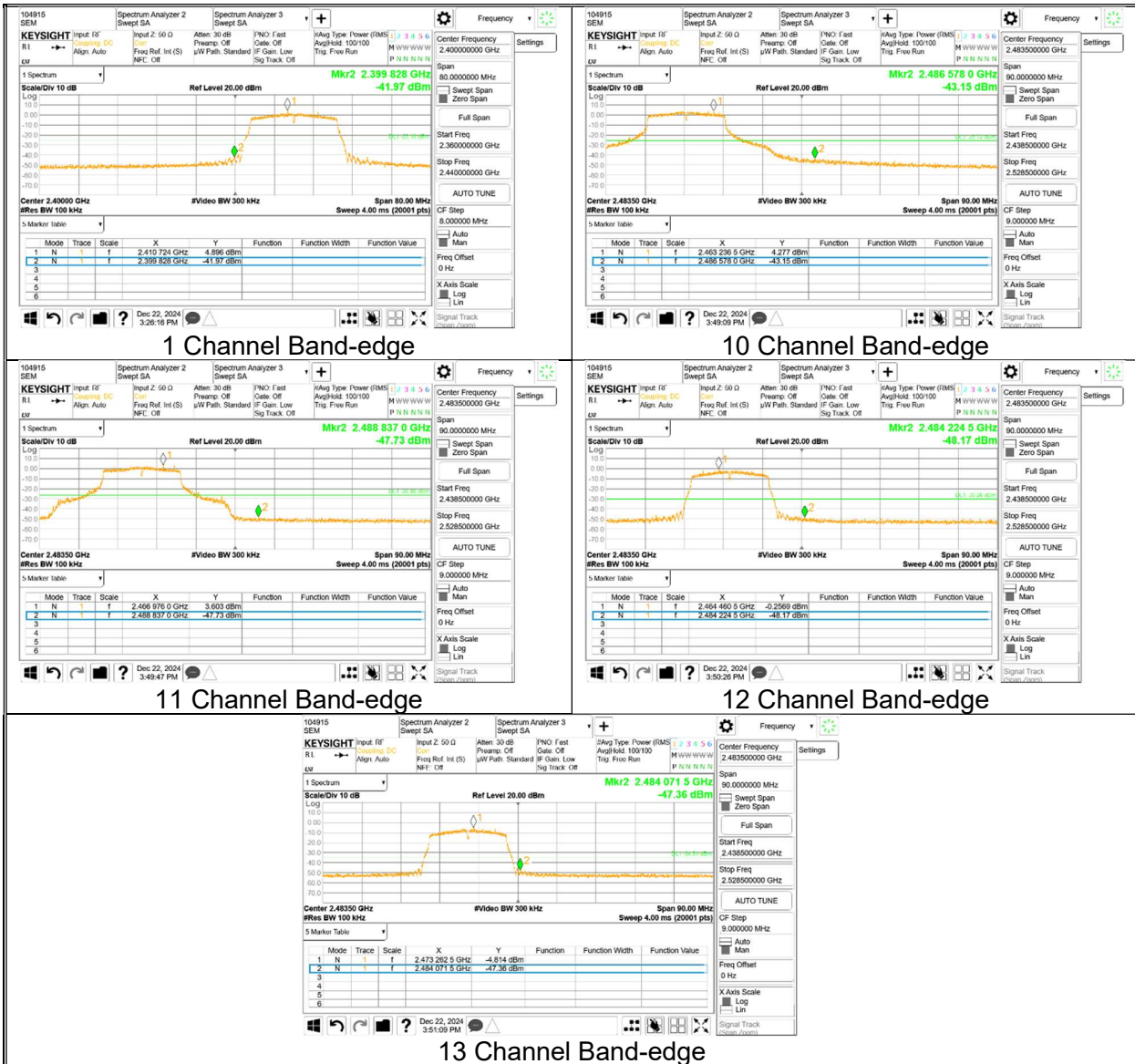
Out-Of-Band 6 Channel



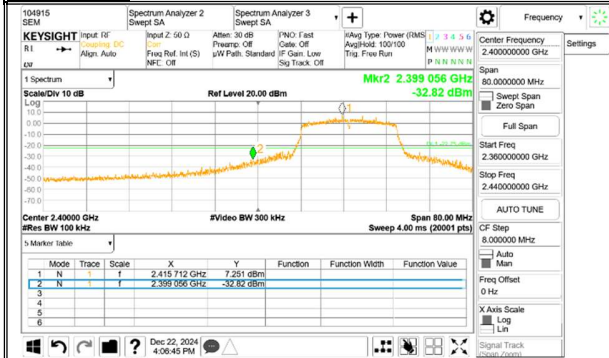
9 Channel Band-edge



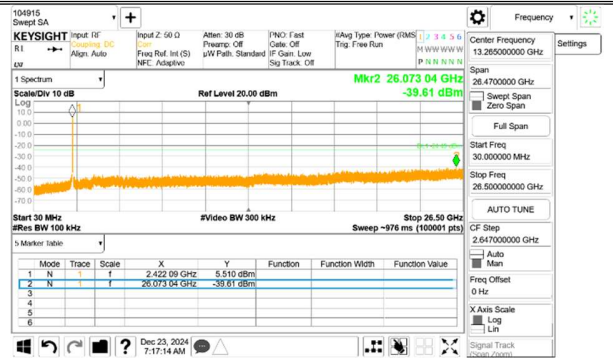
Out-Of-Band 9 Channel



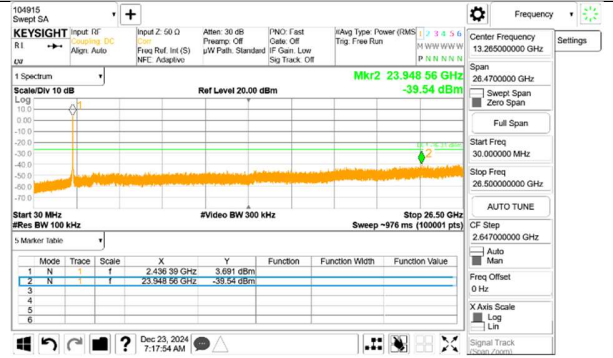
## 2TX ANT2



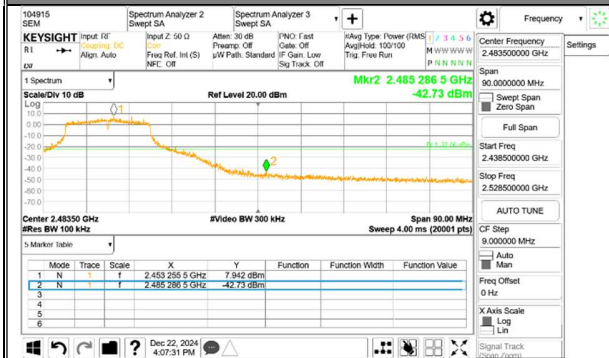
2 Channel Band-edge



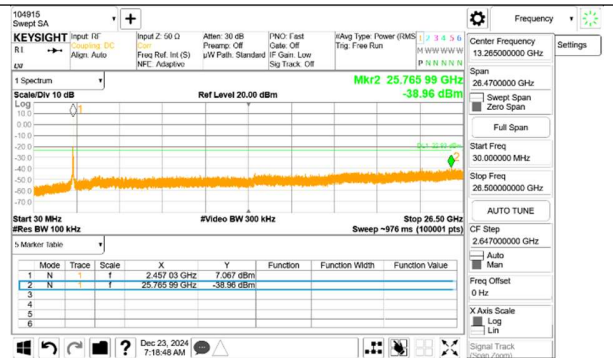
Out-Of-Band 2 Channel



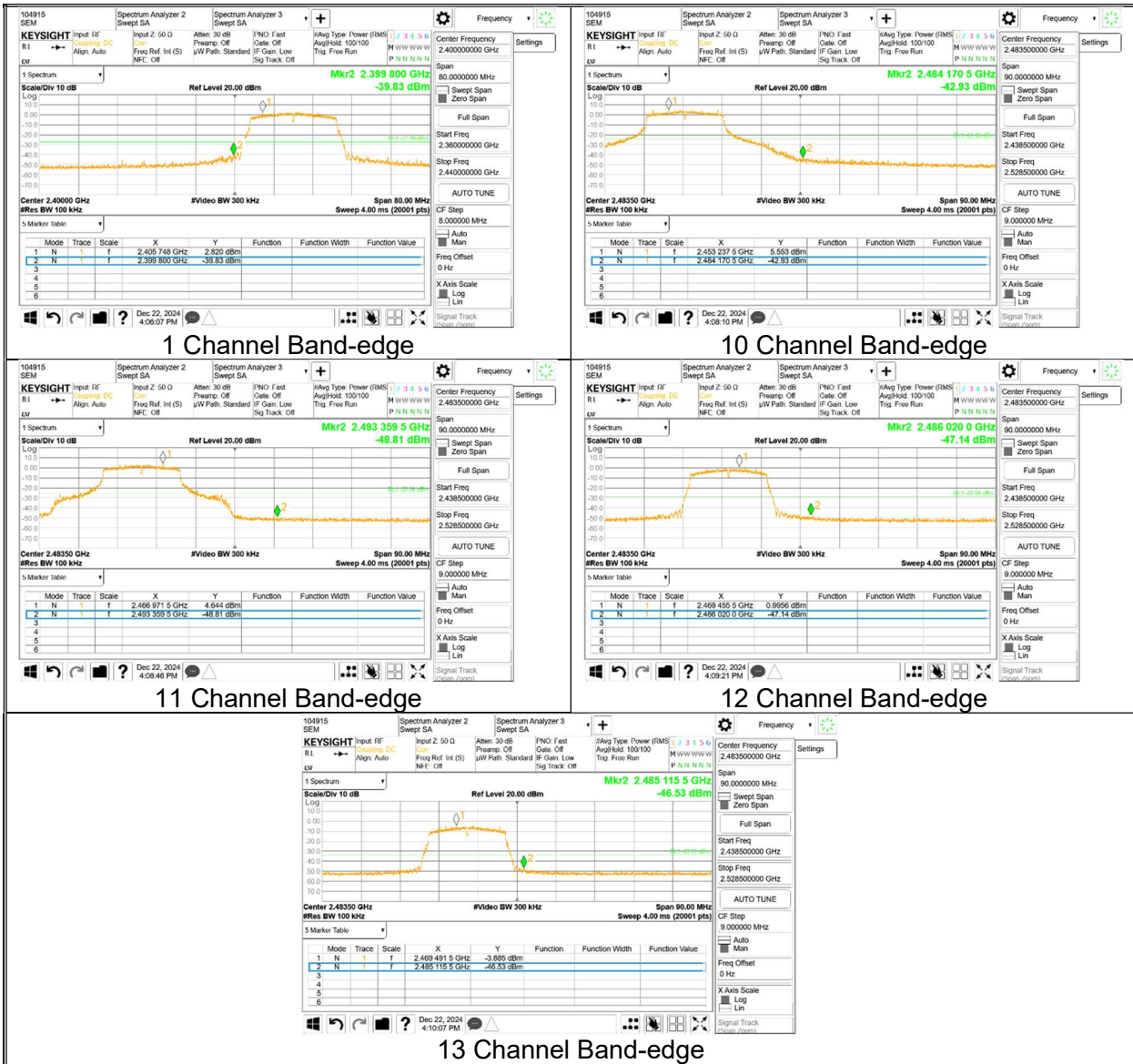
Out-Of-Band 6 Channel



9 Channel Band-edge

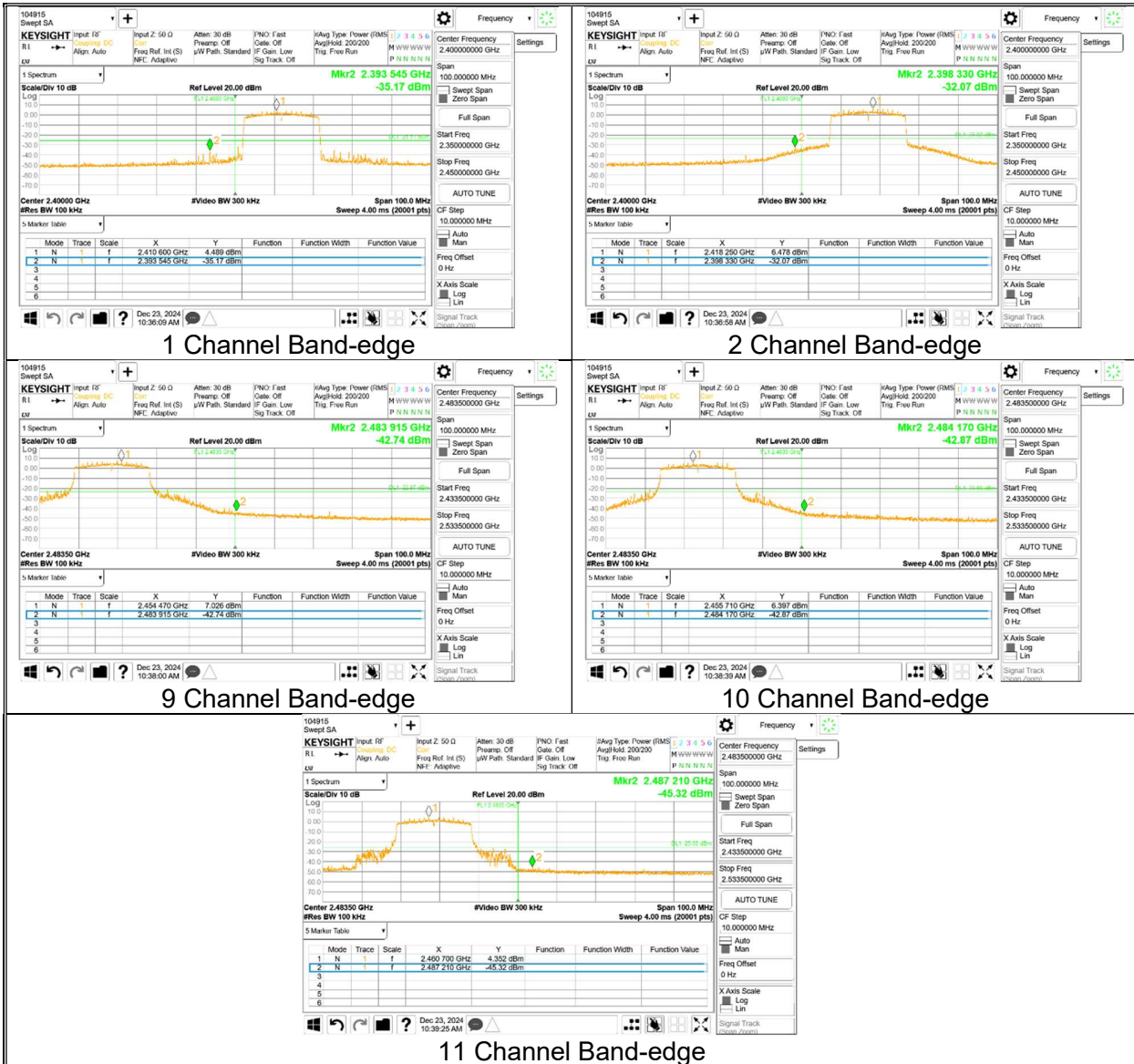


Out-Of-Band 9 Channel



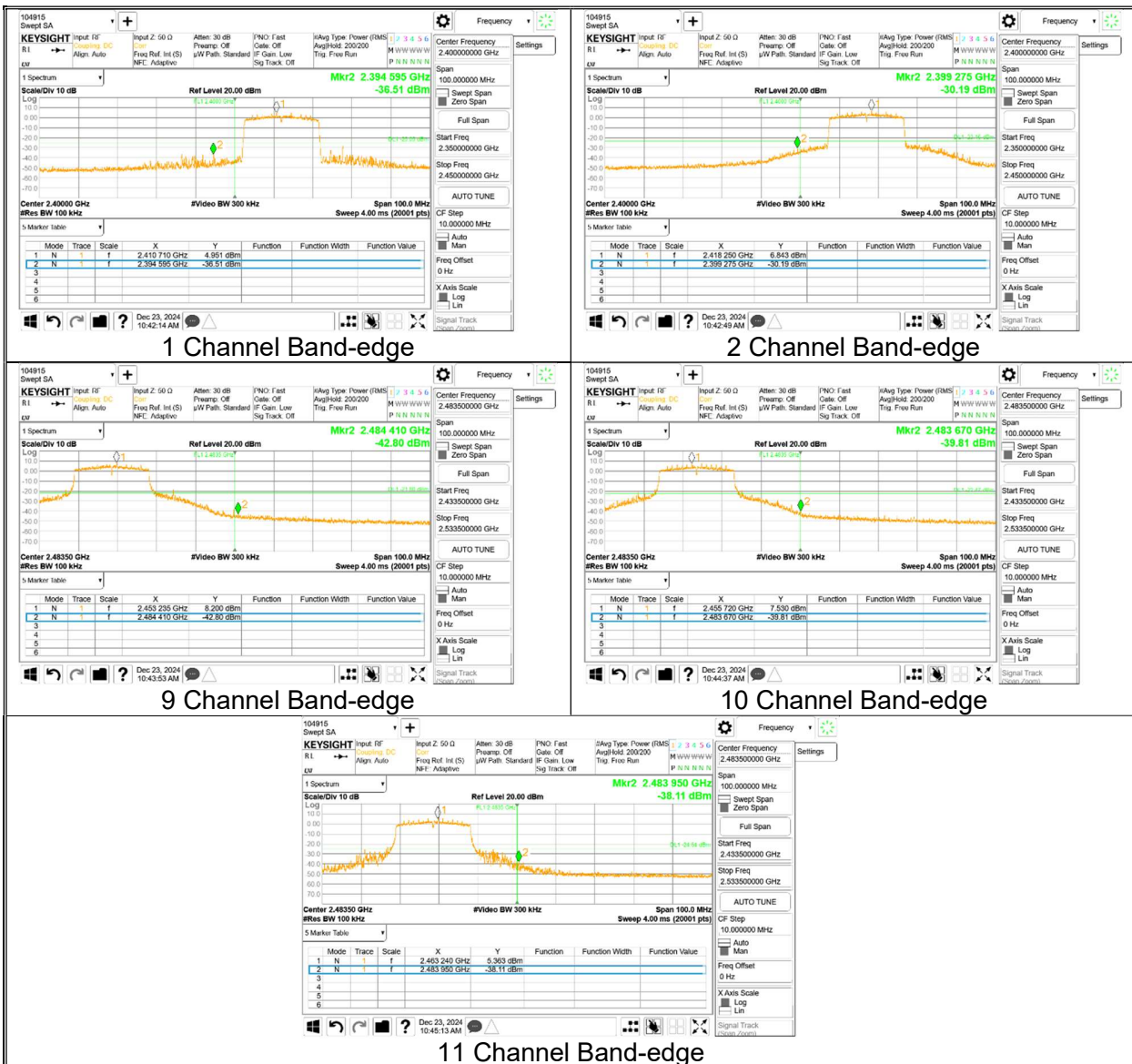
## 10.5.4. 802.11ax HE20(Full RU 242T) MODE

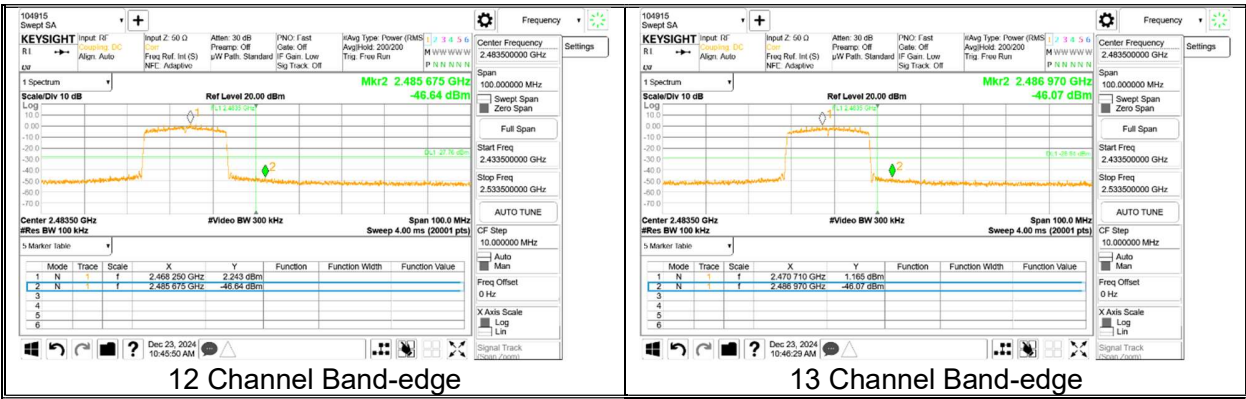
### 2TX ANT1





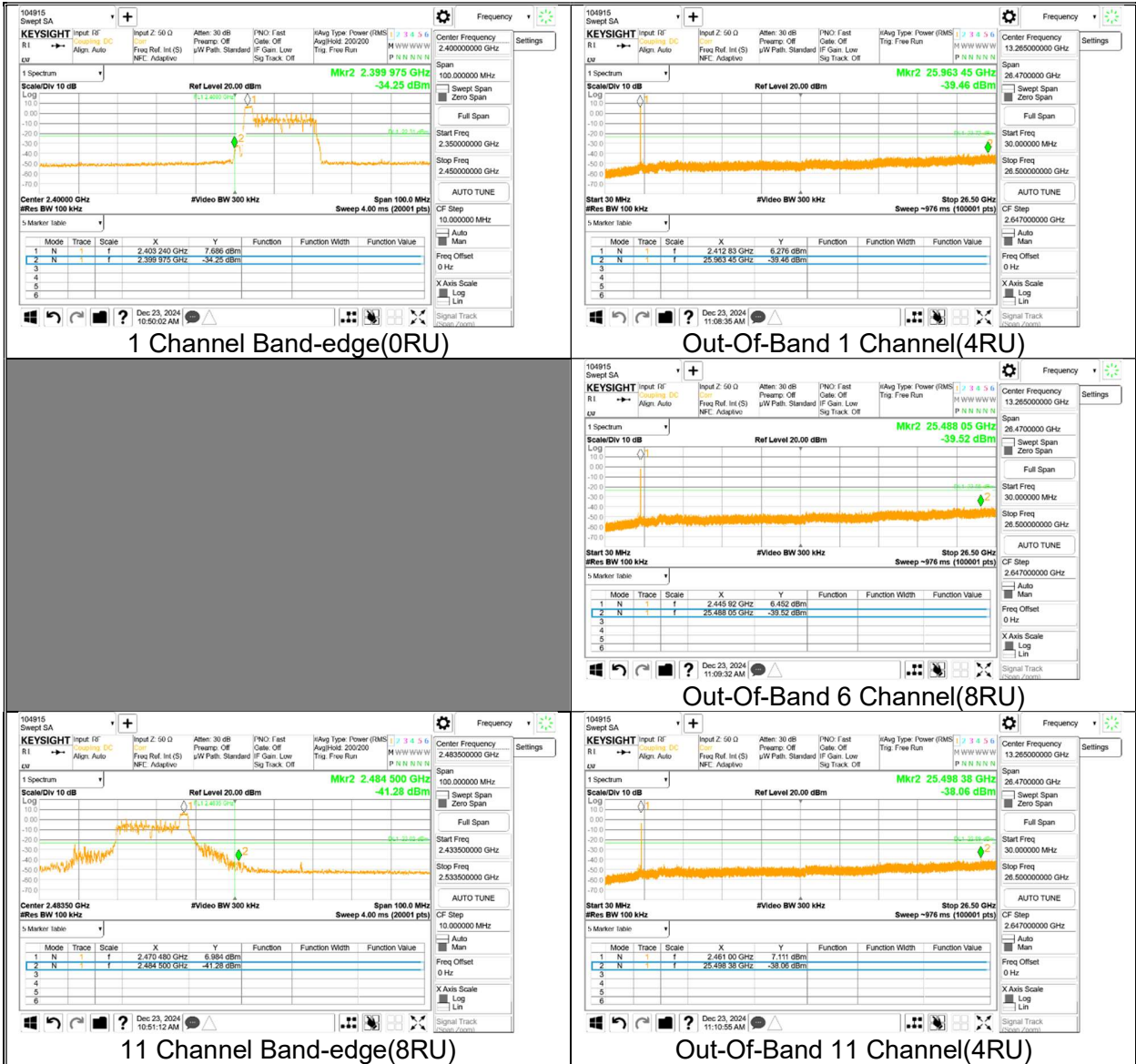
## 2TX ANT2

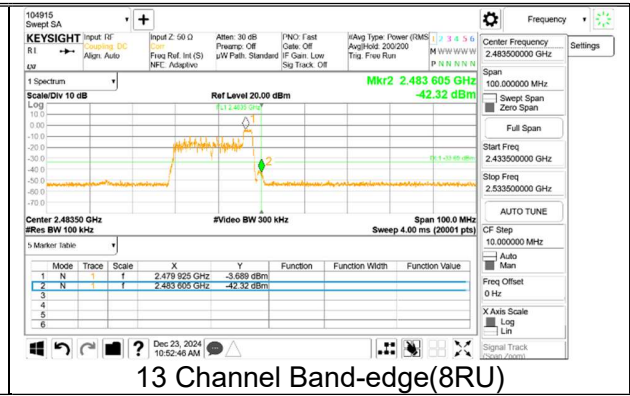
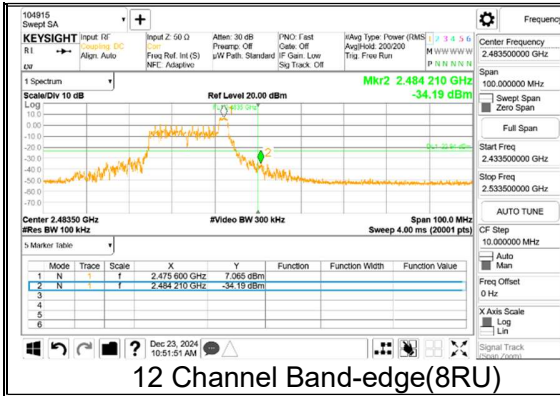




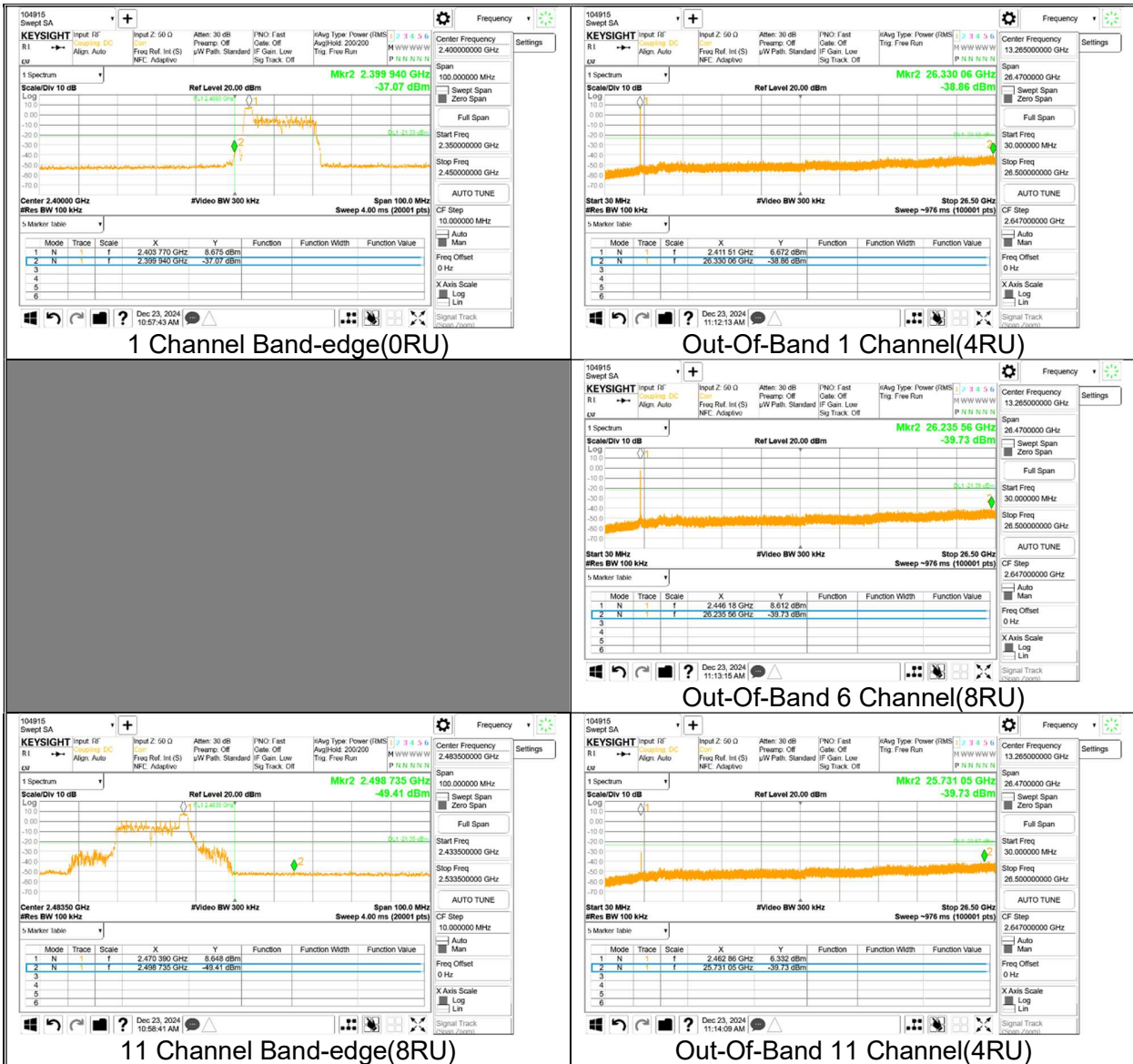
## 10.5.5. 802.11ax HE20(RU) MODE

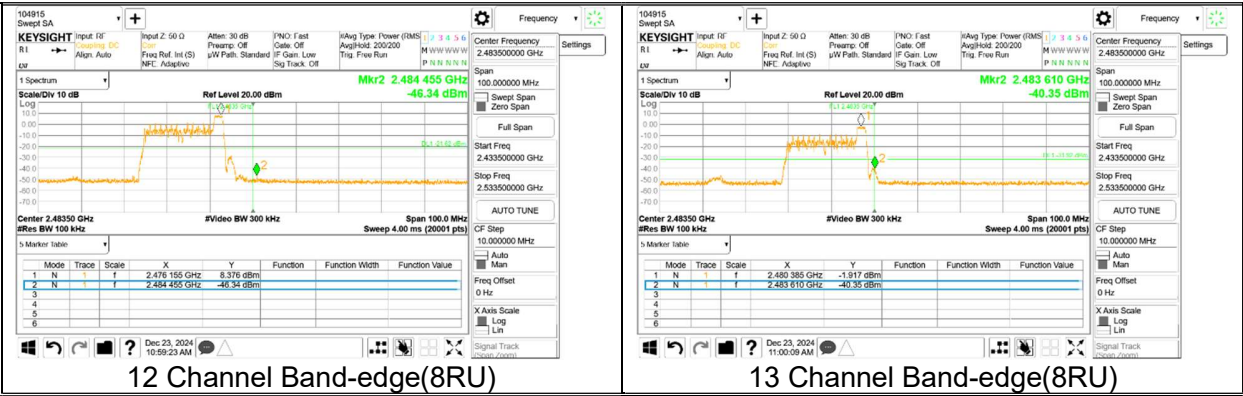
### 2TX ANT1





## 2TX ANT2





## 11. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209

| Limits for radiated disturbance of an intentional radiator |                 |                          |
|------------------------------------------------------------|-----------------|--------------------------|
| Frequency range (MHz)                                      | Limits (μV/m)   | Measurement Distance (m) |
| 0.009 – 0.490                                              | 2400 / F (kHz)  | 300                      |
| 0.490 – 1.705                                              | 24000 / F (kHz) | 30                       |
| 1.705 – 30.0                                               | 30              | 30                       |
| 30 – 88                                                    | 100**           | 3                        |
| 88 - 216                                                   | 150**           | 3                        |
| 216 – 960                                                  | 200**           | 3                        |
| Above 960                                                  | 500             | 3                        |

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

RSS-Gen (8.9)

| Frequency (MHz) | Field strength (μV/m at 3 m) |
|-----------------|------------------------------|
| 30 – 88         | 100                          |
| 88 – 216        | 150                          |
| 216 – 960       | 200                          |
| Above 960       | 500                          |

| Frequency (MHz)                                                                                                                    | Magnetic field strength (H-Field) (μA/m) | Measurement Distance (m) |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------|
| 0.009–0.490 <sup>Note 1</sup>                                                                                                      | 6.37/F (F in kHz)                        | 300                      |
| 0.490–1.705                                                                                                                        | 63.7/F (F in kHz)                        | 30                       |
| 1.705–30.0                                                                                                                         | 0.08                                     | 30                       |
| Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector. |                                          |                          |

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to  $Y-51.5 = Z$  dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

RSS-Gen (8.10) / FCC Part 15.205 (a): Restricted frequency bands

| MHz               | MHz                 | MHz            | MHz             | GHz          | GHz           |
|-------------------|---------------------|----------------|-----------------|--------------|---------------|
| 0.009 ~ 0.110     | 8.41425 ~ 8.41475   | 108 ~ 121.94   | 1300 ~ 1427     | 4.5 ~ 5.15   | 14.47 ~ 14.5  |
| 0.495 ~ 0.505     | 12.29 ~ 12.293      | 123 ~ 138      | 1435 ~ 1626.5   | 5.35 ~ 5.46  | 15.35 ~ 16.2  |
| 2.1735 ~ 2.1905   | 12.51975 ~ 12.52025 | 149.9 ~ 150.05 | 1645.5 ~ 1646.5 | 7.25 ~ 7.75  | 17.7 ~ 21.4   |
| 4.125 ~ 4.128     | 12.57675 ~ 12.57725 | 156.52475 ~    | 1660 ~ 1710     | 8.025 ~ 8.5  | 22.01 ~ 23.12 |
| 4.17725 ~ 4.17775 | 13.36 ~ 13.41       | 156.52525      | 1718.8 ~ 1722.2 | 9.0 ~ 9.2    | 23.6 ~ 24.0   |
| 4.20725 ~ 4.20775 | 16.42 ~ 16.423      | 156.7 ~ 156.9  | 2200 ~ 2300     | 9.3 ~ 9.5    | 31.2 ~ 31.8   |
| 6.215 ~ 6.218     | 16.69475 ~ 16.69525 | 162.0125 ~     | 2310 ~ 2390     | 10.6 ~ 12.7  | 36.43 ~ 36.5  |
| 6.26775 ~ 6.26825 | 16.80425 ~ 16.80475 | 167.17         | 2483.5 ~ 2500   | 13.25 ~ 13.4 | Above 38.6    |
| 6.31175 ~ 6.31225 | 25.5 ~ 25.67        | 167.72 ~ 173.2 | 2655 ~ 2900     |              |               |
| 8.291 ~ 8.294     | 37.5 ~ 38.25        | 240 ~ 285      | 3260 ~ 3267     |              |               |
| 8.362 ~ 8.366     | 73 ~ 74.6           | 322 ~ 335.4    | 3332 ~ 3339     |              |               |
| 8.37625 ~ 8.38675 | 74.8 ~ 75.2         | 399.90 ~ 410   | 3345.8 ~ 3358   |              |               |
|                   |                     | 608 ~ 614      | 3600 ~ 4400     |              |               |
|                   |                     | 960 ~ 1240     |                 |              |               |

- RSS-Gen 8.10 : Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
- FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

## **TEST PROCEDURE**

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements.  
(Restricted bandedge, Final detection of spurious harmonic emissions)

Duty cycle factor =  $10\log(1/x)$  For this sample:

802.11b SISO mode = 0.22 dB (95.08%);  
802.11g SISO mode = 0.69 dB (85.27%);  
802.11n(HT20) MIMO mode = 0.43 dB (90.56%);  
802.11ax(HE20) MIMO Full RU(242T) mode = 1.35 dB (73.37%);  
802.11ax(HE20) MIMO 26 Tone mode = 0.98 dB (79.88%).

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.  
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

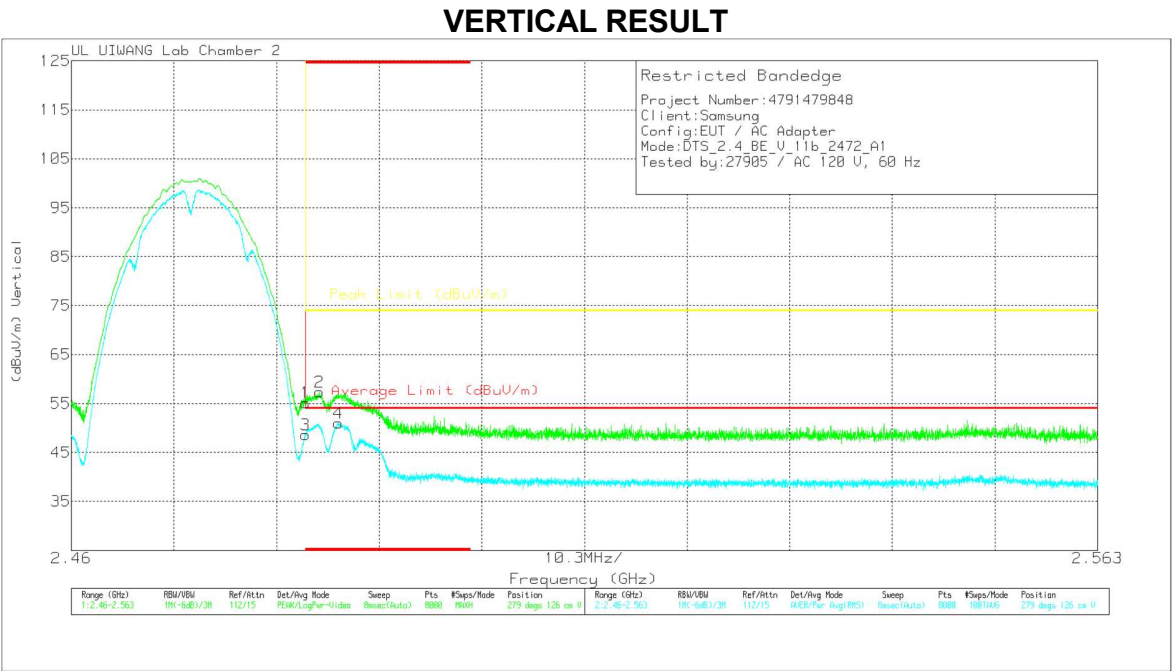
Note : Emission was pre-scanned from 9 kHz to 30 MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).  
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.  
Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. TRANSMITTER ABOVE 1 GHz

11.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

BANDEDGE (WORST CASE: 13 CHANNEL, ANT1)



Trace Markers

| Marker | Frequency (GHz) | Marker Reading (dBuV) | Det | CFR 47 Pt 1.180, 317, 24920 Antenna Factor (dBm) | FCC Pt 1.180, 317, 24920 (dBm) | CFR 47 Pt 1.400, 317, 24917 (dBm) | DC Cor (dB) | Corrected Reading (dBuV) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Pk Margin (dB) | Azimuth (Degs) | Height (m) | Polarity |
|--------|-----------------|-----------------------|-----|--------------------------------------------------|--------------------------------|-----------------------------------|-------------|--------------------------|------------------------|-------------|---------------------|----------------|----------------|------------|----------|
| 1      | * 2.4835        | 50.38                 | Pk  | 32.2                                             | -34.1                          | 6.7                               | 0           | 55.18                    | -                      | -           | 74                  | -18.82         | 279            | 126        | V        |
| 2      | * 2.48492       | 52.58                 | Pk  | 32.2                                             | -34.1                          | 6.7                               | 0           | 57.38                    | -                      | -           | 74                  | -16.62         | 279            | 126        | V        |
| 3      | * 2.4835        | 45.56                 | RMS | 32.2                                             | -34.1                          | 6.7                               | 22          | 48.58                    | 54                     | -5.42       | -                   | -              | 279            | 126        | V        |
| 4      | * 2.48677       | 46.04                 | RMS | 32.2                                             | -34.1                          | 6.7                               | 22          | 51.06                    | 54                     | -2.94       | -                   | -              | 279            | 126        | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

## BANDEDGE TEST DATA

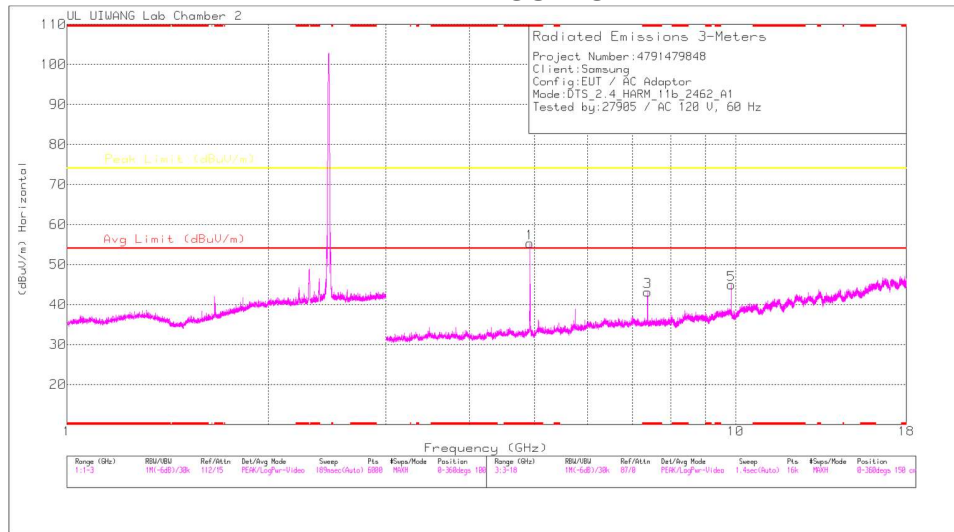
| Freq.<br>[MHz] | Antenna | Frequency<br>[GHz] | Reading<br>[dBuV] | Detector<br>Mode | ANT Factor<br>[dB/m] | FB Gain<br>[dB] | Loss<br>[dB] | DC Corr<br>[dB] | Result<br>[dBuV/m] | AV Limit<br>[dBuV/m] | AV Margin<br>[dB] | PK Limit<br>[dBuV/m] | PK Margin<br>[dB] | Azimuth<br>[Degs] | Height<br>[cm] | Polarity |
|----------------|---------|--------------------|-------------------|------------------|----------------------|-----------------|--------------|-----------------|--------------------|----------------------|-------------------|----------------------|-------------------|-------------------|----------------|----------|
| 2412           | ANT1    | * 2.39             | 48.71             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 53.11              | -                    | -                 | 74.00                | -20.89            | 196               | 100            | H        |
|                |         | * 2.38979          | 51.37             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 55.77              | -                    | -                 | 74.00                | -18.23            | 196               | 100            | H        |
|                |         | * 2.39             | 39.25             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 43.87              | 54.00                | -10.13            | -                    | -                 | 196               | 100            | H        |
|                |         | * 2.38816          | 40.97             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 45.59              | 54.00                | -8.41             | -                    | -                 | 196               | 100            | H        |
|                |         | * 2.39             | 49.09             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 53.49              | -                    | -                 | 74.00                | -20.51            | 273               | 130            | V        |
|                |         | * 2.3851           | 51.43             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 55.83              | -                    | -                 | 74.00                | -18.17            | 273               | 130            | V        |
|                |         | * 2.39             | 38.21             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 42.83              | 54.00                | -11.17            | -                    | -                 | 273               | 130            | V        |
|                |         | * 2.38618          | 41.06             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 45.68              | 54.00                | -8.32             | -                    | -                 | 273               | 130            | V        |
| 2462           | ANT1    | * 2.4835           | 44.70             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 49.50              | -                    | -                 | 74.00                | -24.50            | 199               | 116            | H        |
|                |         | 2.502              | 46.53             | Pk               | 32.20                | -34.00          | 6.80         | 0.00            | 51.53              | -                    | -                 | 74.00                | -22.47            | 199               | 116            | H        |
|                |         | * 2.4835           | 33.88             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 38.90              | 54.00                | -15.10            | -                    | -                 | 199               | 116            | H        |
|                |         | * 2.4883           | 35.37             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 40.39              | 54.00                | -13.61            | -                    | -                 | 199               | 116            | H        |
|                |         | * 2.4835           | 44.58             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 49.38              | -                    | -                 | 74.00                | -24.62            | 261               | 103            | V        |
|                |         | * 2.48551          | 46.82             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 51.62              | -                    | -                 | 74.00                | -22.38            | 261               | 103            | V        |
|                |         | * 2.4835           | 34.53             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 39.55              | 54.00                | -14.45            | -                    | -                 | 261               | 103            | V        |
|                |         | * 2.48757          | 35.99             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 41.01              | 54.00                | -12.99            | -                    | -                 | 261               | 103            | V        |
| 2467           | ANT1    | * 2.4835           | 44.05             | Pk               | 32.10                | -30.50          | 7.20         | 0.00            | 52.85              | -                    | -                 | 74.00                | -21.15            | 219               | 240            | H        |
|                |         | * 2.48429          | 45.77             | Pk               | 32.10                | -30.50          | 7.20         | 0.00            | 54.57              | -                    | -                 | 74.00                | -19.43            | 219               | 240            | H        |
|                |         | * 2.4835           | 33.55             | RMS              | 32.10                | -30.50          | 7.20         | 0.22            | 42.57              | 54.00                | -11.43            | -                    | -                 | 219               | 240            | H        |
|                |         | * 2.48402          | 35.71             | RMS              | 32.10                | -30.50          | 7.20         | 0.22            | 44.73              | 54.00                | -9.27             | -                    | -                 | 219               | 240            | H        |
|                |         | * 2.4835           | 45.49             | Pk               | 32.10                | -30.50          | 7.20         | 0.00            | 54.29              | -                    | -                 | 74.00                | -19.71            | 139               | 147            | V        |
|                |         | * 2.48391          | 47.53             | Pk               | 32.10                | -30.50          | 7.20         | 0.00            | 56.33              | -                    | -                 | 74.00                | -17.67            | 139               | 147            | V        |
|                |         | * 2.4835           | 36.20             | RMS              | 32.10                | -30.50          | 7.20         | 0.22            | 45.22              | 54.00                | -8.78             | -                    | -                 | 139               | 147            | V        |
|                |         | * 2.48407          | 38.59             | RMS              | 32.10                | -30.50          | 7.20         | 0.22            | 47.61              | 54.00                | -6.39             | -                    | -                 | 139               | 147            | V        |
| 2472           | ANT1    | * 2.4835           | 47.62             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 52.42              | -                    | -                 | 74.00                | -21.58            | 198               | 115            | H        |
|                |         | * 2.48672          | 50.25             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 55.05              | -                    | -                 | 74.00                | -18.95            | 198               | 115            | H        |
|                |         | * 2.4835           | 40.36             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 45.38              | 54.00                | -8.62             | -                    | -                 | 198               | 115            | H        |
|                |         | * 2.48686          | 42.22             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 47.24              | 54.00                | -6.76             | -                    | -                 | 198               | 115            | H        |
|                |         | * 2.4835           | 50.38             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 55.18              | -                    | -                 | 74.00                | -18.82            | 279               | 126            | V        |
|                |         | * 2.48492          | 52.58             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 57.38              | -                    | -                 | 74.00                | -16.62            | 279               | 126            | V        |
|                |         | * 2.4835           | 43.56             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 48.58              | 54.00                | -5.42             | -                    | -                 | 279               | 126            | V        |
|                |         | * 2.48677          | 46.04             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 51.06              | 54.00                | -2.94             | -                    | -                 | 279               | 126            | V        |
| Freq.<br>[MHz] | Antenna | Frequency<br>[GHz] | Reading<br>[dBuV] | Detector<br>Mode | ANT Factor<br>[dB/m] | FB Gain<br>[dB] | Loss<br>[dB] | DC Corr<br>[dB] | Result<br>[dBuV/m] | AV Limit<br>[dBuV/m] | AV Margin<br>[dB] | PK Limit<br>[dBuV/m] | PK Margin<br>[dB] | Azimuth<br>[Degs] | Height<br>[cm] | Polarity |
| 2412           | ANT2    | * 2.39             | 49.16             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 53.56              | -                    | -                 | 74.00                | -20.44            | 60                | 102            | H        |
|                |         | * 2.38587          | 53.16             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 57.56              | -                    | -                 | 74.00                | -16.44            | 60                | 102            | H        |
|                |         | * 2.39             | 40.00             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 44.62              | 54.00                | -9.38             | -                    | -                 | 60                | 102            | H        |
|                |         | * 2.38698          | 44.15             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 48.77              | 54.00                | -5.23             | -                    | -                 | 60                | 102            | H        |
|                |         | * 2.39             | 47.49             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 51.89              | -                    | -                 | 74.00                | -22.11            | 8                 | 113            | V        |
|                |         | * 2.38692          | 50.67             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 55.07              | -                    | -                 | 74.00                | -18.93            | 8                 | 113            | V        |
|                |         | * 2.39             | 37.18             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 41.80              | 54.00                | -12.20            | -                    | -                 | 8                 | 113            | V        |
|                |         | * 2.38559          | 40.89             | RMS              | 31.90                | -34.10          | 6.60         | 0.22            | 45.51              | 54.00                | -8.49             | -                    | -                 | 8                 | 113            | V        |
| 2462           | ANT2    | * 2.4835           | 48.43             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 53.23              | -                    | -                 | 74.00                | -20.77            | 48                | 104            | H        |
|                |         | * 2.48586          | 50.57             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 55.37              | -                    | -                 | 74.00                | -18.63            | 48                | 104            | H        |
|                |         | * 2.4835           | 38.25             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 43.27              | 54.00                | -10.73            | -                    | -                 | 48                | 104            | H        |
|                |         | * 2.48601          | 40.20             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 45.22              | 54.00                | -8.78             | -                    | -                 | 48                | 104            | H        |
|                |         | * 2.4835           | 45.61             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 50.41              | -                    | -                 | 74.00                | -23.59            | 4                 | 143            | V        |
|                |         | * 2.48659          | 47.41             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 52.21              | -                    | -                 | 74.00                | -21.79            | 4                 | 143            | V        |
|                |         | * 2.4835           | 34.79             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 39.81              | 54.00                | -14.19            | -                    | -                 | 4                 | 143            | V        |
|                |         | * 2.48631          | 36.38             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 41.40              | 54.00                | -12.60            | -                    | -                 | 4                 | 143            | V        |
| 2467           | ANT2    | * 2.4835           | 51.22             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 56.02              | -                    | -                 | 74.00                | -17.98            | 49                | 102            | H        |
|                |         | * 2.48485          | 52.07             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 56.87              | -                    | -                 | 74.00                | -17.13            | 49                | 102            | H        |
|                |         | * 2.4835           | 40.29             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 45.31              | 54.00                | -8.69             | -                    | -                 | 49                | 102            | H        |
|                |         | * 2.4849           | 43.55             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 48.57              | 54.00                | -5.43             | -                    | -                 | 49                | 102            | H        |
|                |         | * 2.4835           | 45.32             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 50.12              | -                    | -                 | 74.00                | -23.88            | 0                 | 139            | V        |
|                |         | * 2.48438          | 47.71             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 52.51              | -                    | -                 | 74.00                | -21.49            | 0                 | 139            | V        |
|                |         | * 2.4835           | 36.07             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 41.09              | 54.00                | -12.91            | -                    | -                 | 0                 | 139            | V        |
|                |         | * 2.48454          | 36.92             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 41.94              | 54.00                | -12.06            | -                    | -                 | 0                 | 139            | V        |
| 2472           | ANT2    | * 2.4835           | 51.67             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 56.47              | -                    | -                 | 74.00                | -17.53            | 49                | 116            | H        |
|                |         | * 2.48698          | 53.35             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 58.15              | -                    | -                 | 74.00                | -15.85            | 49                | 116            | H        |
|                |         | * 2.4835           | 44.34             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 49.36              | 54.00                | -4.64             | -                    | -                 | 49                | 116            | H        |
|                |         | * 2.4849           | 45.98             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 51.00              | 54.00                | -3.00             | -                    | -                 | 49                | 116            | H        |
|                |         | * 2.4835           | 47.29             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 52.09              | -                    | -                 | 74.00                | -21.91            | 0                 | 139            | V        |
|                |         | * 2.4851           | 48.51             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 53.31              | -                    | -                 | 74.00                | -20.69            | 0                 | 139            | V        |
|                |         | * 2.4835           | 39.00             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 44.02              | 54.00                | -9.98             | -                    | -                 | 0                 | 139            | V        |
|                |         | * 2.48369          | 39.93             | RMS              | 32.20                | -34.10          | 6.70         | 0.22            | 44.95              | 54.00                | -9.05             | -                    | -                 | 0                 | 139            | V        |

Note1. Pk - Peak detector, RMS - RMS detection

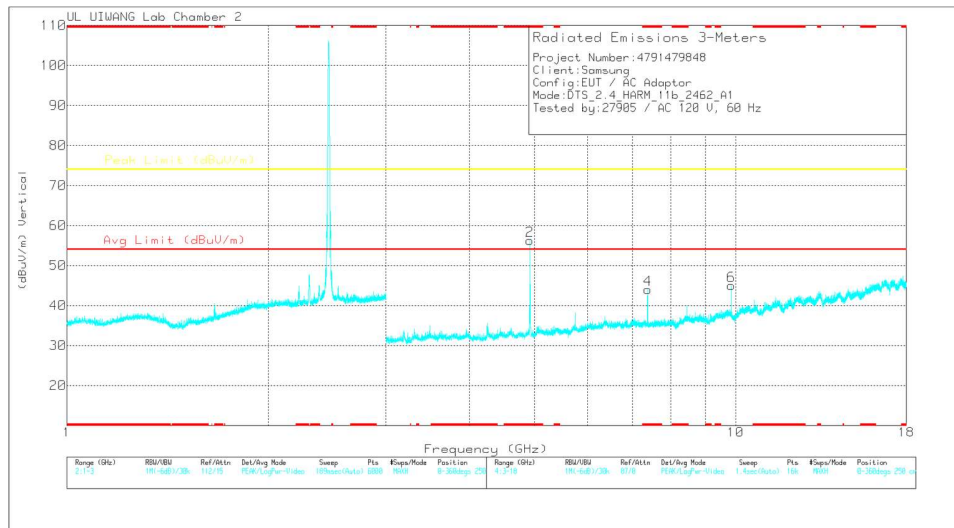
Note2. \* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

## HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 11 CHANNEL, ANT1)

### CH 11 RESULTS



### HORIZONTAL



### VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

### Radiated Emissions

| Frequency (GHz) | Meas Reading (dBuV) | Det  | CH2 AF 1- 18G_3117_240920 Antenna Factor(dBm) | FB2 PL 1- 18G_3GHP_240409 Gain(dB) | CH2 CL 1- 40G_Thin_240817 Loss(dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Altitude (deg) | Height (cm) | Polarity |
|-----------------|---------------------|------|-----------------------------------------------|------------------------------------|------------------------------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.92399       | 52.63               | PK2  | 33.9                                          | -42.7                              | 9.8                                | 0            | 53.63                      | -                  | -           | 74                  | -20.37      | 57             | 103         | H        |
| * 4.92397       | 49.77               | MAV1 | 33.9                                          | -42.7                              | 9.8                                | 22           | 50.99                      | 54                 | -3.01       | -                   | -           | 57             | 103         | H        |
| * 4.92402       | 53.42               | PK2  | 33.9                                          | -42.7                              | 9.8                                | 0            | 54.42                      | -                  | -           | 74                  | -19.58      | 136            | 106         | V        |
| * 4.92392       | 50.58               | MAV1 | 33.9                                          | -42.7                              | 9.8                                | 22           | 51.8                       | 54                 | -2.2        | -                   | -           | 136            | 106         | V        |
| * 7.38734       | 38.17               | PK2  | 35.7                                          | -40.5                              | 11.8                               | 0            | 45.17                      | -                  | -           | 74                  | -28.83      | 183            | 114         | H        |
| * 7.387         | 27.6                | MAV1 | 35.7                                          | -40.5                              | 11.8                               | 22           | 34.82                      | 54                 | -19.18      | -                   | -           | 183            | 114         | H        |
| * 7.37968       | 40.63               | PK2  | 35.7                                          | -40.5                              | 11.8                               | 0            | 47.63                      | -                  | -           | 74                  | -26.37      | 308            | 107         | V        |
| * 7.38642       | 28.24               | MAV1 | 35.7                                          | -40.5                              | 11.8                               | 22           | 35.46                      | 54                 | -18.54      | -                   | -           | 308            | 107         | V        |
| 9.84801         | 36.45               | PK2  | 36.9                                          | -38.1                              | 13.8                               | 0            | 49.05                      | -                  | -           | 74                  | -24.95      | 220            | 108         | H        |
| 9.84788         | 36.34               | PK2  | 36.9                                          | -38.1                              | 13.8                               | 0            | 48.94                      | -                  | -           | 74                  | -25.06      | 313            | 107         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PK2 - KDB558074 Method: Maximum Peak  
MAV1 - KDB558074 Option 1 Maximum RMS Average

## HARMONICS AND SPURIOUS EMISSIONS TEST DATA

| Freq.<br>[MHz] | Antenna | Frequency<br>[GHz] | Reading<br>[dBuV] | Detector<br>Mode | ANT Factor<br>[dB/m] | FB Gain<br>[dB] | Loss<br>[dB] | DC Corr<br>[dB] | Result<br>[dBuV/m] | AV Limit<br>[dBuV/m] | AV Margin<br>[dB] | PK Limit<br>[dBuV/m] | PK Margin<br>[dB] | Azimuth<br>[Degs] | Height<br>[cm] | Polarity |
|----------------|---------|--------------------|-------------------|------------------|----------------------|-----------------|--------------|-----------------|--------------------|----------------------|-------------------|----------------------|-------------------|-------------------|----------------|----------|
| 2412           | ANT1    | * 4.82402          | 52.40             | PK2              | 33.90                | -42.60          | 9.70         | 0.00            | 53.40              | -                    | -                 | 74.00                | -20.60            | 58                | 114            | H        |
|                |         | * 4.82394          | 49.70             | MAv1             | 33.90                | -42.60          | 9.70         | 0.22            | 50.92              | 54.00                | -3.08             | -                    | -                 | 58                | 114            | H        |
|                |         | * 4.82406          | 52.26             | PK2              | 33.90                | -42.60          | 9.70         | 0.00            | 53.26              | -                    | -                 | 74.00                | -20.74            | 132               | 154            | V        |
|                |         | * 4.824            | 49.43             | MAv1             | 33.90                | -42.60          | 9.70         | 0.22            | 50.65              | 54.00                | -3.35             | -                    | -                 | 132               | 154            | V        |
|                |         | 7.237              | 44.17             | PK2              | 35.70                | -40.80          | 11.60        | 0.00            | 50.67              | -                    | -                 | 74.00                | -23.33            | 237               | 204            | H        |
|                |         | 7.237              | 43.91             | PK2              | 35.70                | -40.80          | 11.60        | 0.00            | 50.41              | -                    | -                 | 74.00                | -23.59            | 310               | 106            | V        |
|                |         | 9.648              | 39.05             | PK2              | 36.70                | -39.10          | 13.60        | 0.00            | 50.25              | -                    | -                 | 74.00                | -23.75            | 236               | 102            | H        |
|                |         | 9.648              | 38.82             | PK2              | 36.70                | -39.10          | 13.60        | 0.00            | 50.02              | -                    | -                 | 74.00                | -23.98            | 332               | 203            | V        |
|                |         | * 4.87402          | 52.35             | PK2              | 33.90                | -42.40          | 9.70         | 0.00            | 53.55              | -                    | -                 | 74.00                | -20.45            | 58                | 107            | H        |
|                |         | * 4.874            | 49.48             | MAv1             | 33.90                | -42.40          | 9.70         | 0.22            | 50.90              | 54.00                | -3.10             | -                    | -                 | 58                | 107            | H        |
| 2437           | ANT1    | * 4.87392          | 52.62             | PK2              | 33.90                | -42.40          | 9.70         | 0.00            | 53.82              | -                    | -                 | 74.00                | -20.18            | 135               | 111            | V        |
|                |         | * 4.87398          | 49.73             | MAv1             | 33.90                | -42.40          | 9.70         | 0.22            | 51.15              | 54.00                | -2.85             | -                    | -                 | 135               | 111            | V        |
|                |         | * 7.31326          | 39.42             | PK2              | 35.60                | -40.40          | 11.70        | 0.00            | 46.32              | -                    | -                 | 74.00                | -27.68            | 235               | 202            | H        |
|                |         | * 7.3103           | 29.44             | MAv1             | 35.60                | -40.40          | 11.70        | 0.22            | 36.56              | 54.00                | -17.44            | -                    | -                 | 235               | 202            | H        |
|                |         | * 7.30968          | 39.22             | PK2              | 35.60                | -40.40          | 11.70        | 0.00            | 46.12              | -                    | -                 | 74.00                | -27.88            | 315               | 107            | V        |
|                |         | * 7.30964          | 29.21             | MAv1             | 35.60                | -40.40          | 11.70        | 0.22            | 36.33              | 54.00                | -17.67            | -                    | -                 | 315               | 107            | V        |
|                |         | 9.748              | 37.00             | PK2              | 36.80                | -38.30          | 13.60        | 0.00            | 49.10              | -                    | -                 | 74.00                | -24.90            | 235               | 111            | H        |
|                |         | 9.748              | 37.25             | PK2              | 36.80                | -38.30          | 13.60        | 0.00            | 49.35              | -                    | -                 | 74.00                | -24.65            | 309               | 112            | V        |
|                |         | * 4.92399          | 52.63             | PK2              | 33.90                | -42.70          | 9.80         | 0.00            | 53.63              | -                    | -                 | 74.00                | -20.37            | 57                | 103            | H        |
|                |         | * 4.92397          | 49.77             | MAv1             | 33.90                | -42.70          | 9.80         | 0.22            | 50.99              | 54.00                | -3.01             | -                    | -                 | 57                | 103            | H        |
| 2462           | ANT1    | * 4.92402          | 53.42             | PK2              | 33.90                | -42.70          | 9.80         | 0.00            | 54.42              | -                    | -                 | 74.00                | -19.58            | 136               | 106            | V        |
|                |         | * 4.92392          | 50.58             | MAv1             | 33.90                | -42.70          | 9.80         | 0.22            | 51.80              | 54.00                | -2.20             | -                    | -                 | 136               | 106            | V        |
|                |         | * 7.38734          | 38.17             | PK2              | 35.70                | -40.50          | 11.80        | 0.00            | 45.17              | -                    | -                 | 74.00                | -28.83            | 183               | 114            | H        |
|                |         | * 7.387            | 27.60             | MAv1             | 35.70                | -40.50          | 11.80        | 0.22            | 34.82              | 54.00                | -19.18            | -                    | -                 | 183               | 114            | H        |
|                |         | * 7.37968          | 40.63             | PK2              | 35.70                | -40.50          | 11.80        | 0.00            | 47.63              | -                    | -                 | 74.00                | -26.37            | 308               | 107            | V        |
|                |         | * 7.38642          | 28.24             | MAv1             | 35.70                | -40.50          | 11.80        | 0.22            | 35.46              | 54.00                | -18.54            | -                    | -                 | 308               | 107            | V        |
|                |         | 9.848              | 36.45             | PK2              | 36.90                | -38.10          | 13.80        | 0.00            | 49.05              | -                    | -                 | 74.00                | -24.95            | 220               | 108            | H        |
|                |         | 9.848              | 36.34             | PK2              | 36.90                | -38.10          | 13.80        | 0.00            | 48.94              | -                    | -                 | 74.00                | -25.06            | 313               | 107            | V        |

| Freq.<br>[MHz] | Antenna | Frequency<br>[GHz] | Reading<br>[dBuV] | Detector<br>Mode | ANT Factor<br>[dB/m] | FB Gain<br>[dB] | Loss<br>[dB] | DC Corr<br>[dB] | Result<br>[dBuV/m] | AV Limit<br>[dBuV/m] | AV Margin<br>[dB] | PK Limit<br>[dBuV/m] | PK Margin<br>[dB] | Azimuth<br>[Degs] | Height<br>[cm] | Polarity |
|----------------|---------|--------------------|-------------------|------------------|----------------------|-----------------|--------------|-----------------|--------------------|----------------------|-------------------|----------------------|-------------------|-------------------|----------------|----------|
| 2412           | ANT2    | * 4.82402          | 50.75             | PK2              | 33.90                | -42.60          | 9.70         | 0.00            | 51.75              | -                    | -                 | 74.00                | -22.25            | 229               | 283            | H        |
|                |         | * 4.82398          | 47.56             | MAv1             | 33.90                | -42.60          | 9.70         | 0.22            | 48.78              | 54.00                | -5.22             | -                    | -                 | 229               | 283            | H        |
|                |         | * 4.824            | 49.92             | PK2              | 33.90                | -42.60          | 9.70         | 0.00            | 50.92              | -                    | -                 | 74.00                | -23.08            | 310               | 105            | V        |
|                |         | * 4.82401          | 46.55             | MAv1             | 33.90                | -42.60          | 9.70         | 0.22            | 47.77              | 54.00                | -6.23             | -                    | -                 | 310               | 105            | V        |
|                |         | 7.235              | 52.89             | PK2              | 35.70                | -40.80          | 11.60        | 0.00            | 59.39              | -                    | -                 | 74.00                | -14.61            | 229               | 100            | H        |
|                |         | 7.235              | 49.01             | PK2              | 35.70                | -40.80          | 11.60        | 0.00            | 55.51              | -                    | -                 | 74.00                | -18.49            | 185               | 124            | V        |
|                |         | 9.648              | 42.40             | PK2              | 36.70                | -39.10          | 13.60        | 0.00            | 53.60              | -                    | -                 | 74.00                | -20.40            | 56                | 111            | H        |
|                |         | 9.648              | 40.10             | PK2              | 36.70                | -39.10          | 13.60        | 0.00            | 51.30              | -                    | -                 | 74.00                | -22.70            | 25                | 106            | V        |
|                |         | * 4.87401          | 50.93             | PK2              | 33.90                | -42.40          | 9.70         | 0.00            | 52.13              | -                    | -                 | 74.00                | -21.87            | 224               | 290            | H        |
|                |         | * 4.87397          | 47.42             | MAv1             | 33.90                | -42.40          | 9.70         | 0.22            | 48.84              | 54.00                | -5.16             | -                    | -                 | 224               | 290            | H        |
| 2437           | ANT2    | * 4.87396          | 47.76             | PK2              | 33.90                | -42.40          | 9.70         | 0.00            | 48.96              | -                    | -                 | 74.00                | -25.04            | 308               | 109            | V        |
|                |         | * 4.87392          | 43.32             | MAv1             | 33.90                | -42.40          | 9.70         | 0.22            | 44.74              | 54.00                | -9.26             | -                    | -                 | 308               | 109            | V        |
|                |         | * 7.31185          | 47.86             | PK2              | 35.60                | -40.40          | 11.70        | 0.00            | 54.76              | -                    | -                 | 74.00                | -19.24            | 217               | 111            | H        |
|                |         | * 7.31187          | 43.07             | MAv1             | 35.60                | -40.40          | 11.70        | 0.22            | 50.19              | 54.00                | -3.81             | -                    | -                 | 217               | 111            | H        |
|                |         | * 7.31055          | 46.18             | PK2              | 35.60                | -40.40          | 11.70        | 0.00            | 53.08              | -                    | -                 | 74.00                | -20.92            | 167               | 118            | V        |
|                |         | * 7.31195          | 40.99             | MAv1             | 35.60                | -40.40          | 11.70        | 0.22            | 48.11              | 54.00                | -5.89             | -                    | -                 | 167               | 118            | V        |
|                |         | 9.748              | 38.08             | PK2              | 36.80                | -38.30          | 13.60        | 0.00            | 50.18              | -                    | -                 | 74.00                | -23.82            | 55                | 114            | H        |
|                |         | 9.748              | 38.14             | PK2              | 36.80                | -38.30          | 13.60        | 0.00            | 50.24              | -                    | -                 | 74.00                | -23.76            | 1                 | 313            | V        |
|                |         | * 4.92402          | 51.13             | PK2              | 33.90                | -42.70          | 9.80         | 0.00            | 52.13              | -                    | -                 | 74.00                | -21.87            | 217               | 201            | H        |
|                |         | * 4.92397          | 47.88             | MAv1             | 33.90                | -42.70          | 9.80         | 0.22            | 49.10              | 54.00                | -4.90             | -                    | -                 | 217               | 201            | H        |
| 2462           | ANT2    | * 4.92395          | 48.44             | PK2              | 33.90                | -42.70          | 9.80         | 0.00            | 49.44              | -                    | -                 | 74.00                | -24.56            | 322               | 125            | V        |
|                |         | * 4.92401          | 43.92             | MAv1             | 33.90                | -42.70          | 9.80         | 0.22            | 45.14              | 54.00                | -8.86             | -                    | -                 | 322               | 125            | V        |
|                |         | * 7.38727          | 47.23             | PK2              | 35.70                | -40.50          | 11.80        | 0.00            | 54.23              | -                    | -                 | 74.00                | -19.77            | 224               | 105            | H        |
|                |         | * 7.38507          | 42.60             | MAv1             | 35.70                | -40.50          | 11.80        | 0.22            | 49.82              | 54.00                | -4.18             | -                    | -                 | 224               | 105            | H        |
|                |         | * 7.38699          | 47.34             | PK2              | 35.70                | -40.50          | 11.80        | 0.00            | 54.34              | -                    | -                 | 74.00                | -19.66            | 174               | 106            | V        |
|                |         | * 7.38487          | 42.66             | MAv1             | 35.70                | -40.50          | 11.80        | 0.22            | 49.88              | 54.00                | -4.12             | -                    | -                 | 174               | 106            | V        |
|                |         | 9.848              | 37.49             | PK2              | 36.90                | -38.10          | 13.80        | 0.00            | 50.09              | -                    | -                 | 74.00                | -23.91            | 51                | 105            | H        |
|                |         | 9.848              | 38.71             | PK2              | 36.90                | -38.10          | 13.80        | 0.00            | 51.31              | -                    | -                 | 74.00                | -22.69            | 48                | 107            | V        |

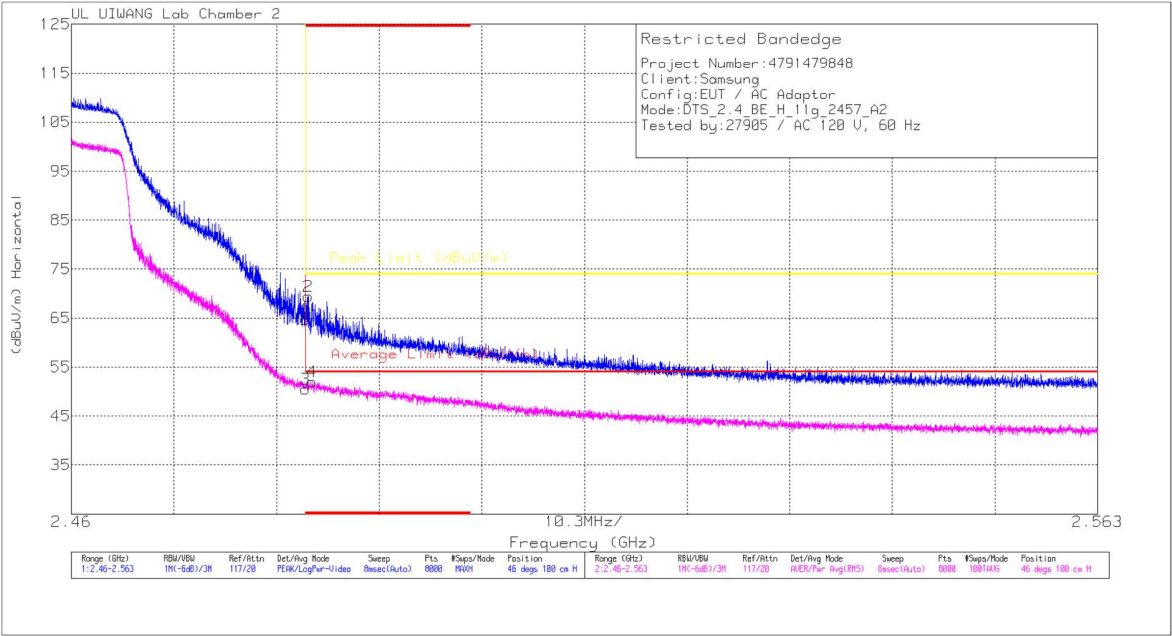
Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

Note2. \* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

BANDEDGE (WORST CASE: 10 CHANNEL, ANT 2)

HORIZONTAL RESULT



Trace Markers

| Marker | Frequency (GHz) | Value Reading (dBuV) | Det | CH2 AF L 180_317_245700 Antenna Factor (dBm) | FB2 PL L 180_317_245700 Gain (dB) | CH2 CL L 400_317_245700 Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV) | Average Limit (dBuV) | Margin (dB) | Peak Limit (dBuV) | PK Margin (dB) | Altitude (m) | Height (m) | Polarity |
|--------|-----------------|----------------------|-----|----------------------------------------------|-----------------------------------|-----------------------------------|--------------|--------------------------|----------------------|-------------|-------------------|----------------|--------------|------------|----------|
| 1      | * 2.4835        | 59.08                | PK  | 32.2                                         | -34.1                             | 6.7                               | 0            | 69.43                    | -                    | -           | 74                | -0.22          | 46           | 100        | H        |
| 2      | * 2.48377       | 64.63                | PK  | 32.2                                         | -34.1                             | 6.7                               | 0            | 69.43                    | -                    | -           | 74                | -4.57          | 46           | 100        | H        |
| 3      | * 2.4838        | 45.01                | RMS | 32.2                                         | -34.1                             | 6.7                               | 69           | 50.5                     | 54                   | -3.5        | -                 | -              | 46           | 100        | H        |
| 4      | * 2.4842        | 45.49                | RMS | 32.2                                         | -34.1                             | 6.7                               | 69           | 51.98                    | 54                   | -2.02       | -                 | -              | 46           | 100        | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

## BANDEGE TEST DATA

| Freq.<br>[MHz] | Antenna | Frequency<br>[GHz] | Reading<br>[dBuV] | Detector<br>Mode | ANT Factor<br>[dB/m] | FB Gain<br>[dB] | Loss<br>[dB] | DC Corr<br>[dB] | Result<br>[dBuV/m] | AV Limit<br>[dBuV/m] | AV Margin<br>[dB] | PK Limit<br>[dBuV/m] | PK Margin<br>[dB] | Azimuth<br>[Degs] | Height<br>[cm] | Polarity |
|----------------|---------|--------------------|-------------------|------------------|----------------------|-----------------|--------------|-----------------|--------------------|----------------------|-------------------|----------------------|-------------------|-------------------|----------------|----------|
| 2412           | ANT1    | * 2.39             | 58.81             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 63.21              | -                    | -                 | 74.00                | -10.79            | 217               | 181            | H        |
|                |         | * 2.38976          | 57.16             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 61.56              | -                    | -                 | 74.00                | -12.44            | 217               | 181            | H        |
|                |         | * 2.39             | 42.00             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 47.09              | 54.00                | -6.91             | -                    | -                 | 217               | 181            | H        |
|                |         | * 2.38983          | 42.15             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 47.24              | 54.00                | -6.76             | -                    | -                 | 217               | 181            | H        |
|                |         | * 2.39             | 56.72             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 61.12              | -                    | -                 | 74.00                | -12.88            | 277               | 153            | V        |
|                |         | * 2.38934          | 57.40             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 61.80              | -                    | -                 | 74.00                | -12.20            | 277               | 153            | V        |
|                |         | * 2.39             | 42.26             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 47.35              | 54.00                | -6.65             | -                    | -                 | 277               | 153            | V        |
|                |         | * 2.38975          | 43.25             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 48.34              | 54.00                | -5.66             | -                    | -                 | 277               | 153            | V        |
| 2417           | ANT1    | * 2.39             | 53.62             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 58.02              | -                    | -                 | 74.00                | -15.98            | 216               | 181            | H        |
|                |         | * 2.38918          | 57.70             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 62.10              | -                    | -                 | 74.00                | -11.90            | 216               | 181            | H        |
|                |         | * 2.39             | 42.89             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 47.98              | 54.00                | -6.02             | -                    | -                 | 216               | 181            | H        |
|                |         | * 2.3898           | 43.83             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 48.92              | 54.00                | -5.08             | -                    | -                 | 216               | 181            | H        |
|                |         | * 2.39             | 55.61             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 60.01              | -                    | -                 | 74.00                | -13.99            | 276               | 134            | V        |
|                |         | * 2.38883          | 58.88             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 63.28              | -                    | -                 | 74.00                | -10.72            | 276               | 134            | V        |
|                |         | * 2.39             | 43.95             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 49.04              | 54.00                | -4.96             | -                    | -                 | 276               | 134            | V        |
|                |         | * 2.38952          | 45.40             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 50.49              | 54.00                | -3.51             | -                    | -                 | 276               | 134            | V        |
| 2457           | ANT1    | * 2.4835           | 53.98             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 58.78              | -                    | -                 | 74.00                | -15.22            | 217               | 116            | H        |
|                |         | * 2.48463          | 57.51             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 62.31              | -                    | -                 | 74.00                | -11.69            | 217               | 116            | H        |
|                |         | * 2.4835           | 41.35             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 46.84              | 54.00                | -7.16             | -                    | -                 | 217               | 116            | H        |
|                |         | * 2.48364          | 42.52             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 48.01              | 54.00                | -5.99             | -                    | -                 | 217               | 116            | H        |
|                |         | * 2.4835           | 59.94             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 64.74              | -                    | -                 | 74.00                | -9.26             | 282               | 128            | V        |
|                |         | * 2.48376          | 63.86             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 68.66              | -                    | -                 | 74.00                | -5.34             | 282               | 128            | V        |
|                |         | * 2.4835           | 44.39             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 49.88              | 54.00                | -4.12             | -                    | -                 | 282               | 128            | V        |
|                |         | * 2.48353          | 45.94             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 51.43              | 54.00                | -2.57             | -                    | -                 | 282               | 128            | V        |
| 2462           | ANT1    | * 2.4835           | 53.26             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 58.06              | -                    | -                 | 74.00                | -15.94            | 215               | 138            | H        |
|                |         | * 2.48385          | 56.76             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 61.56              | -                    | -                 | 74.00                | -12.44            | 215               | 138            | H        |
|                |         | * 2.4835           | 42.02             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 47.51              | 54.00                | -6.49             | -                    | -                 | 215               | 138            | H        |
|                |         | * 2.48407          | 41.89             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 47.38              | 54.00                | -6.62             | -                    | -                 | 215               | 138            | H        |
|                |         | * 2.4835           | 54.69             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 59.49              | -                    | -                 | 74.00                | -14.51            | 252               | 102            | V        |
|                |         | * 2.48385          | 57.34             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 62.14              | -                    | -                 | 74.00                | -11.86            | 252               | 102            | V        |
|                |         | * 2.4835           | 42.23             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 47.72              | 54.00                | -6.28             | -                    | -                 | 252               | 102            | V        |
|                |         | * 2.48353          | 42.12             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 47.61              | 54.00                | -6.39             | -                    | -                 | 252               | 102            | V        |
| 2467           | ANT1    | * 2.4835           | 57.40             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 62.20              | -                    | -                 | 74.00                | -11.80            | 199               | 118            | H        |
|                |         | * 2.48354          | 59.84             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 64.64              | -                    | -                 | 74.00                | -9.36             | 199               | 118            | H        |
|                |         | * 2.4835           | 43.61             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 49.10              | 54.00                | -4.90             | -                    | -                 | 199               | 118            | H        |
|                |         | * 2.48358          | 45.53             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 51.02              | 54.00                | -2.98             | -                    | -                 | 199               | 118            | H        |
|                |         | * 2.4835           | 56.24             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 61.04              | -                    | -                 | 74.00                | -12.96            | 271               | 127            | V        |
|                |         | * 2.48373          | 59.58             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 64.38              | -                    | -                 | 74.00                | -9.62             | 271               | 127            | V        |
|                |         | * 2.4835           | 45.22             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 50.71              | 54.00                | -3.29             | -                    | -                 | 271               | 127            | V        |
|                |         | * 2.48353          | 46.15             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 51.64              | 54.00                | -2.36             | -                    | -                 | 271               | 127            | V        |
| 2472           | ANT1    | * 2.4835           | 52.82             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 57.62              | -                    | -                 | 74.00                | -16.38            | 201               | 117            | H        |
|                |         | * 2.48429          | 54.69             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 59.49              | -                    | -                 | 74.00                | -14.51            | 201               | 117            | H        |
|                |         | * 2.4835           | 39.98             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 45.47              | 54.00                | -8.53             | -                    | -                 | 201               | 117            | H        |
|                |         | * 2.48418          | 43.50             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 48.99              | 54.00                | -5.01             | -                    | -                 | 201               | 117            | H        |
|                |         | * 2.4835           | 53.37             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 58.17              | -                    | -                 | 74.00                | -15.83            | 279               | 125            | V        |
|                |         | * 2.48457          | 57.40             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 62.20              | -                    | -                 | 74.00                | -11.80            | 279               | 125            | V        |
|                |         | * 2.4835           | 41.69             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 47.18              | 54.00                | -6.82             | -                    | -                 | 279               | 125            | V        |
|                |         | * 2.48423          | 45.26             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 50.75              | 54.00                | -3.25             | -                    | -                 | 279               | 125            | V        |

| Freq.<br>[MHz] | Antenna | Frequency<br>[GHz] | Reading<br>[dBuV] | Detector<br>Mode | ANT Factor<br>[dB/m] | FB Gain<br>[dB] | Loss<br>[dB] | DC Corr<br>[dB] | Result<br>dBuV/m | AV Limit<br>dBuV/m | AV Margin<br>[dB] | PK Limit<br>dBuV/m | PK Margin<br>[dB] | Azimuth<br>[Degs] | Height<br>[cm] | Polarity |
|----------------|---------|--------------------|-------------------|------------------|----------------------|-----------------|--------------|-----------------|------------------|--------------------|-------------------|--------------------|-------------------|-------------------|----------------|----------|
| 2412           | ANT2    | * 2.39             | 56.12             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 60.52            | -                  | -                 | 74.00              | -13.48            | 49                | 103            | H        |
|                |         | * 2.38969          | 58.74             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 63.14            | -                  | -                 | 74.00              | -10.86            | 49                | 103            | H        |
|                |         | * 2.39             | 42.76             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 47.85            | 54.00              | -6.15             | -                  | -                 | 49                | 103            | H        |
|                |         | * 2.38976          | 43.32             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 48.41            | 54.00              | -5.59             | -                  | -                 | 49                | 103            | H        |
|                |         | * 2.39             | 49.38             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 53.78            | -                  | -                 | 74.00              | -20.22            | 0                 | 109            | V        |
|                |         | * 2.38998          | 51.04             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 55.44            | -                  | -                 | 74.00              | -18.56            | 0                 | 109            | V        |
|                |         | * 2.39             | 37.84             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 42.93            | 54.00              | -11.07            | -                  | -                 | 0                 | 109            | V        |
|                |         | * 2.38963          | 38.35             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 43.44            | 54.00              | -10.56            | -                  | -                 | 0                 | 109            | V        |
| 2417           | ANT2    | * 2.39             | 59.60             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 64.00            | -                  | -                 | 74.00              | -10.00            | 47                | 104            | H        |
|                |         | * 2.38992          | 60.33             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 64.73            | -                  | -                 | 74.00              | -9.27             | 47                | 104            | H        |
|                |         | * 2.39             | 45.57             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 50.66            | 54.00              | -3.34             | -                  | -                 | 47                | 104            | H        |
|                |         | * 2.38937          | 46.61             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 51.70            | 54.00              | -2.30             | -                  | -                 | 47                | 104            | H        |
|                |         | * 2.39             | 52.94             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 57.34            | -                  | -                 | 74.00              | -16.66            | 350               | 100            | V        |
|                |         | * 2.38933          | 55.20             | Pk               | 31.90                | -34.10          | 6.60         | 0.00            | 59.60            | -                  | -                 | 74.00              | -14.40            | 350               | 100            | V        |
|                |         | * 2.39             | 41.80             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 46.89            | 54.00              | -7.11             | -                  | -                 | 350               | 100            | V        |
|                |         | * 2.38996          | 42.06             | RMS              | 31.90                | -34.10          | 6.60         | 0.69            | 47.15            | 54.00              | -6.85             | -                  | -                 | 350               | 100            | V        |
| 2457           | ANT2    | * 2.4835           | 59.98             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 64.78            | -                  | -                 | 74.00              | -9.22             | 46                | 100            | H        |
|                |         | * 2.48377          | 64.63             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 69.43            | -                  | -                 | 74.00              | -4.57             | 46                | 100            | H        |
|                |         | * 2.4835           | 45.01             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 50.50            | 54.00              | -3.50             | -                  | -                 | 46                | 100            | H        |
|                |         | * 2.4842           | 46.49             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 51.98            | 54.00              | -2.02             | -                  | -                 | 46                | 100            | H        |
|                |         | * 2.4835           | 54.31             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 59.11            | -                  | -                 | 74.00              | -14.89            | 349               | 141            | V        |
|                |         | * 2.48537          | 57.88             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 62.68            | -                  | -                 | 74.00              | -11.32            | 349               | 141            | V        |
|                |         | * 2.4835           | 40.82             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 46.31            | 54.00              | -7.69             | -                  | -                 | 349               | 141            | V        |
|                |         | * 2.48356          | 41.13             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 46.62            | 54.00              | -7.38             | -                  | -                 | 349               | 141            | V        |
| 2462           | ANT2    | * 2.4835           | 59.92             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 64.72            | -                  | -                 | 74.00              | -9.28             | 42                | 100            | H        |
|                |         | * 2.48386          | 61.81             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 66.61            | -                  | -                 | 74.00              | -7.39             | 42                | 100            | H        |
|                |         | * 2.4835           | 44.71             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 50.20            | 54.00              | -3.80             | -                  | -                 | 42                | 100            | H        |
|                |         | * 2.48354          | 46.27             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 51.76            | 54.00              | -2.24             | -                  | -                 | 42                | 100            | H        |
|                |         | * 2.4835           | 47.73             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 52.53            | -                  | -                 | 74.00              | -21.47            | 353               | 146            | V        |
|                |         | * 2.48362          | 51.04             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 55.84            | -                  | -                 | 74.00              | -18.16            | 353               | 146            | V        |
|                |         | * 2.4835           | 35.96             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 41.45            | 54.00              | -12.55            | -                  | -                 | 353               | 146            | V        |
|                |         | * 2.48362          | 37.82             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 43.31            | 54.00              | -10.69            | -                  | -                 | 353               | 146            | V        |
| 2467           | ANT1    | * 2.4835           | 57.49             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 62.29            | -                  | -                 | 74.00              | -11.71            | 44                | 119            | H        |
|                |         | * 2.4849           | 60.50             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 65.30            | -                  | -                 | 74.00              | -8.70             | 44                | 119            | H        |
|                |         | * 2.4835           | 44.31             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 49.80            | 54.00              | -4.20             | -                  | -                 | 44                | 119            | H        |
|                |         | * 2.48414          | 45.83             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 51.32            | 54.00              | -2.68             | -                  | -                 | 44                | 119            | H        |
|                |         | * 2.4835           | 47.91             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 52.71            | -                  | -                 | 74.00              | -21.29            | 348               | 140            | V        |
|                |         | * 2.4848           | 50.69             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 55.49            | -                  | -                 | 74.00              | -18.51            | 348               | 140            | V        |
|                |         | * 2.4835           | 38.07             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 43.56            | 54.00              | -10.44            | -                  | -                 | 348               | 140            | V        |
|                |         | * 2.48469          | 37.85             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 43.34            | 54.00              | -10.66            | -                  | -                 | 348               | 140            | V        |
| 2472           | ANT1    | * 2.4835           | 54.68             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 59.48            | -                  | -                 | 74.00              | -14.52            | 43                | 122            | H        |
|                |         | * 2.48395          | 60.11             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 64.91            | -                  | -                 | 74.00              | -9.09             | 43                | 122            | H        |
|                |         | * 2.4835           | 43.29             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 48.78            | 54.00              | -5.22             | -                  | -                 | 43                | 122            | H        |
|                |         | * 2.48421          | 44.92             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 50.41            | 54.00              | -3.59             | -                  | -                 | 43                | 122            | H        |
|                |         | * 2.4835           | 47.16             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 51.96            | -                  | -                 | 74.00              | -22.04            | 351               | 142            | V        |
|                |         | * 2.48438          | 50.05             | Pk               | 32.20                | -34.10          | 6.70         | 0.00            | 54.85            | -                  | -                 | 74.00              | -19.15            | 351               | 142            | V        |
|                |         | * 2.4835           | 36.43             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 41.92            | 54.00              | -12.08            | -                  | -                 | 351               | 142            | V        |
|                |         | * 2.48413          | 38.94             | RMS              | 32.20                | -34.10          | 6.70         | 0.69            | 44.43            | 54.00              | -9.57             | -                  | -                 | 351               | 142            | V        |

Note1. Pk - Peak detector, RMS - RMS detection

Note2. \* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band