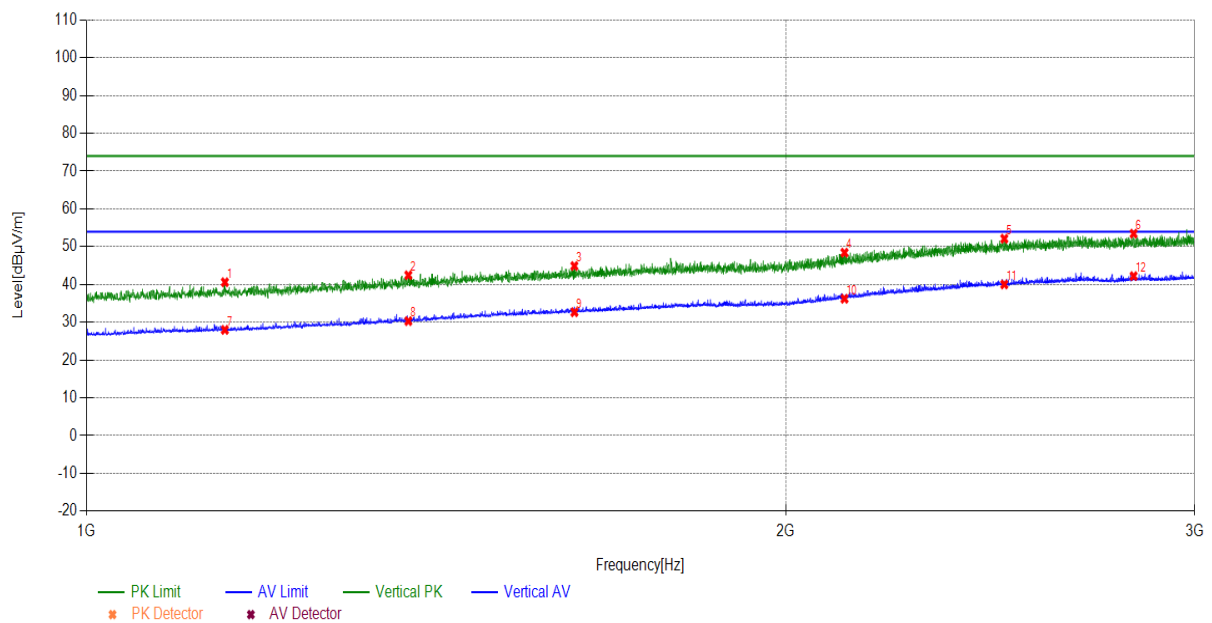
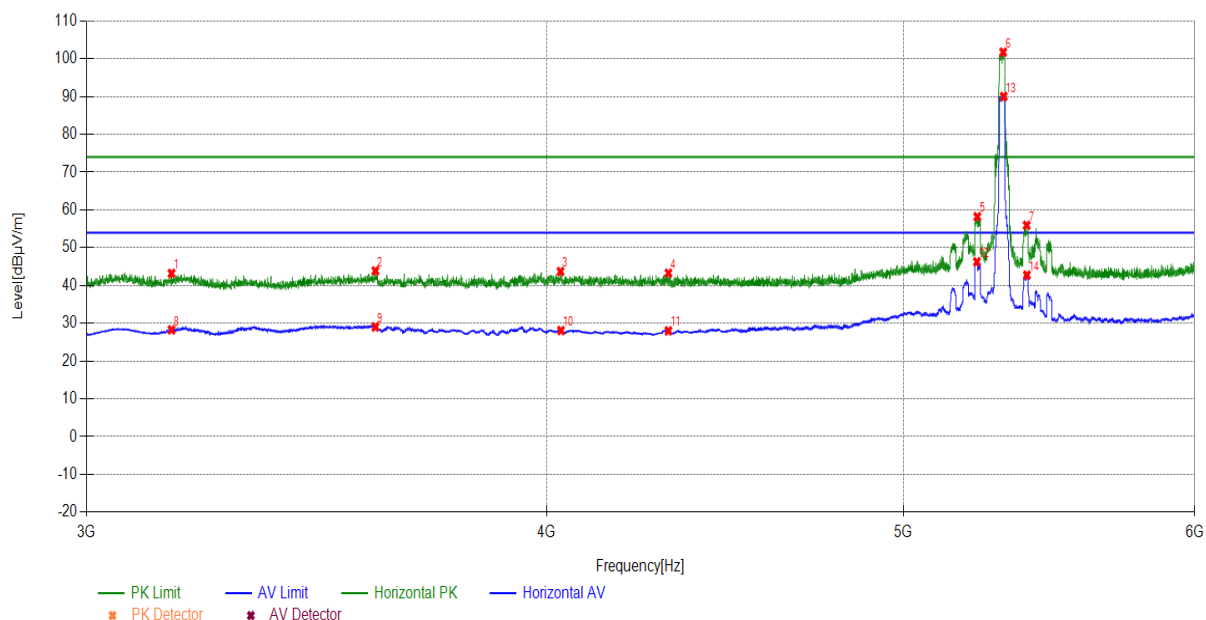


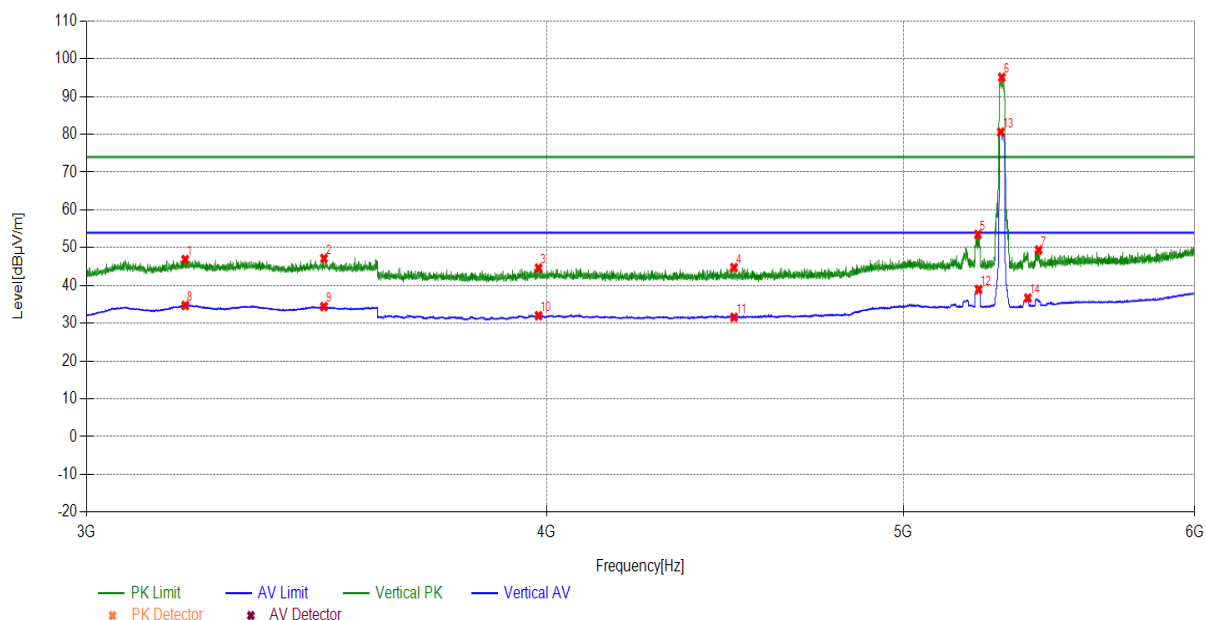
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 1G~3G            |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Vertical         |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 1147.0147         | 27.45       | 13.17            | 40.62          | 74.00          | 33.38       | PK        | 150         | 130       | PASS       |
| 1375.8376         | 29.59       | 12.87            | 42.46          | 74.00          | 31.54       | PK        | 150         | 320       | PASS       |
| 1622.0622         | 31.66       | 13.24            | 44.90          | 74.00          | 29.10       | PK        | 150         | 100       | PASS       |
| 2120.112          | 34.57       | 13.85            | 48.42          | 74.00          | 25.58       | PK        | 150         | 300       | PASS       |
| 2484.1484         | 37.72       | 14.40            | 52.12          | 74.00          | 21.88       | PK        | 150         | 350       | PASS       |
| 2823.9824         | 38.87       | 14.60            | 53.47          | 74.00          | 20.53       | PK        | 150         | 30        | PASS       |
| 1147.0147         | 27.45       | 0.55             | 28.00          | 54.00          | 26.00       | AV        | 150         | 10        | PASS       |
| 1375.8376         | 29.59       | 0.72             | 30.31          | 54.00          | 23.69       | AV        | 150         | 290       | PASS       |
| 1622.0622         | 31.66       | 1.01             | 32.67          | 54.00          | 21.33       | AV        | 150         | 160       | PASS       |
| 2120.112          | 34.57       | 1.66             | 36.23          | 54.00          | 17.77       | AV        | 150         | 210       | PASS       |
| 2484.1484         | 37.72       | 2.31             | 40.03          | 54.00          | 13.97       | AV        | 150         | 310       | PASS       |
| 2823.9824         | 38.87       | 3.36             | 42.23          | 54.00          | 11.77       | AV        | 150         | 20        | PASS       |



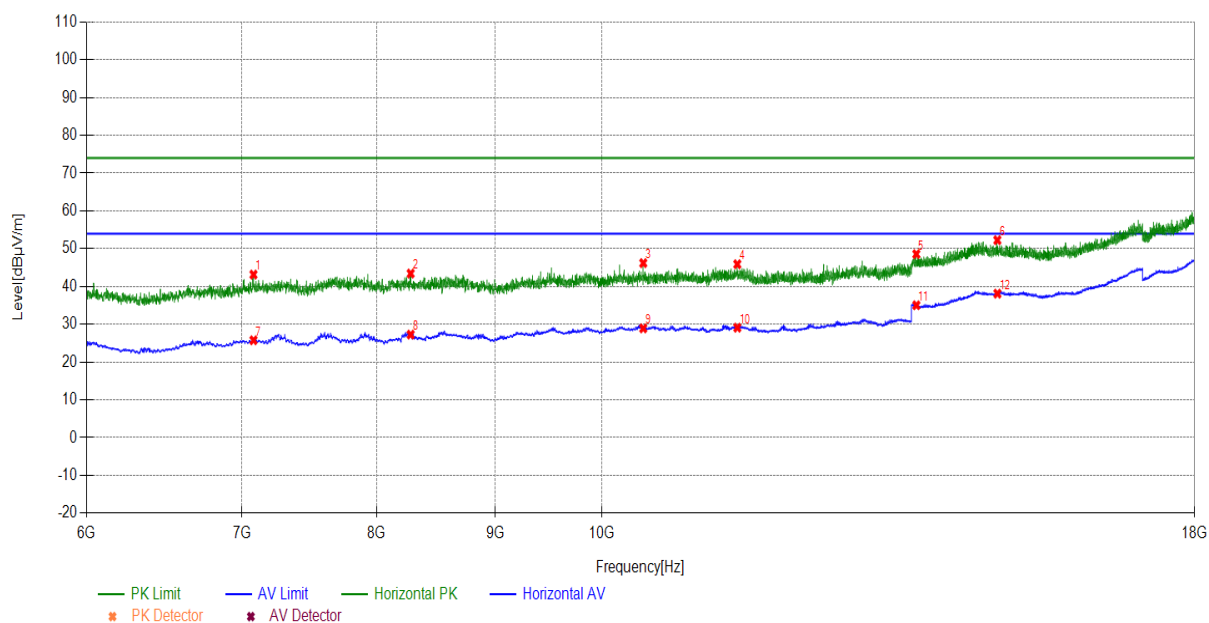
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 3G~6G            |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 3163.8164         | -2.47       | 45.68            | 43.21          | 74.00          | 30.79       | PK        | 150         | 57        | PASS       |
| 3594.0594         | -0.85       | 44.72            | 43.87          | 74.00          | 30.13       | PK        | 150         | 152       | PASS       |
| 4035.4035         | -0.17       | 43.87            | 43.70          | 74.00          | 30.30       | PK        | 150         | 223       | PASS       |
| 4317.1317         | -0.48       | 43.75            | 43.27          | 74.00          | 30.73       | PK        | 150         | 152       | PASS       |
| 5237.6238         | 2.17        | 56.03            | 58.20          | 74.00          | 15.80       | PK        | 150         | 342       | PASS       |
| 5322.8323         | 2.35        | 99.40            | 101.75         | 74.00          | -27.75      | PK        | 150         | 2         | ---        |
| 5401.4401         | 2.51        | 53.42            | 55.93          | 74.00          | 18.07       | PK        | 150         | 331       | PASS       |
| 3163.8164         | -2.47       | 30.74            | 28.27          | 54.00          | 25.73       | AV        | 150         | 2         | PASS       |
| 3594.0594         | -0.85       | 29.87            | 29.02          | 54.00          | 24.98       | AV        | 150         | 34        | PASS       |
| 4036.6037         | -0.17       | 28.26            | 28.09          | 54.00          | 25.91       | AV        | 150         | 11        | PASS       |
| 4317.1317         | -0.48       | 28.50            | 28.02          | 54.00          | 25.98       | AV        | 150         | 2         | PASS       |
| 5236.1236         | 2.17        | 44.10            | 46.27          | 54.00          | 7.73        | AV        | 150         | 2         | PASS       |
| 5324.6325         | 2.35        | 87.68            | 90.03          | 54.00          | -36.03      | AV        | 150         | 2         | ---        |
| 5402.6403         | 2.51        | 40.25            | 42.76          | 54.00          | 11.24       | AV        | 150         | 2         | PASS       |



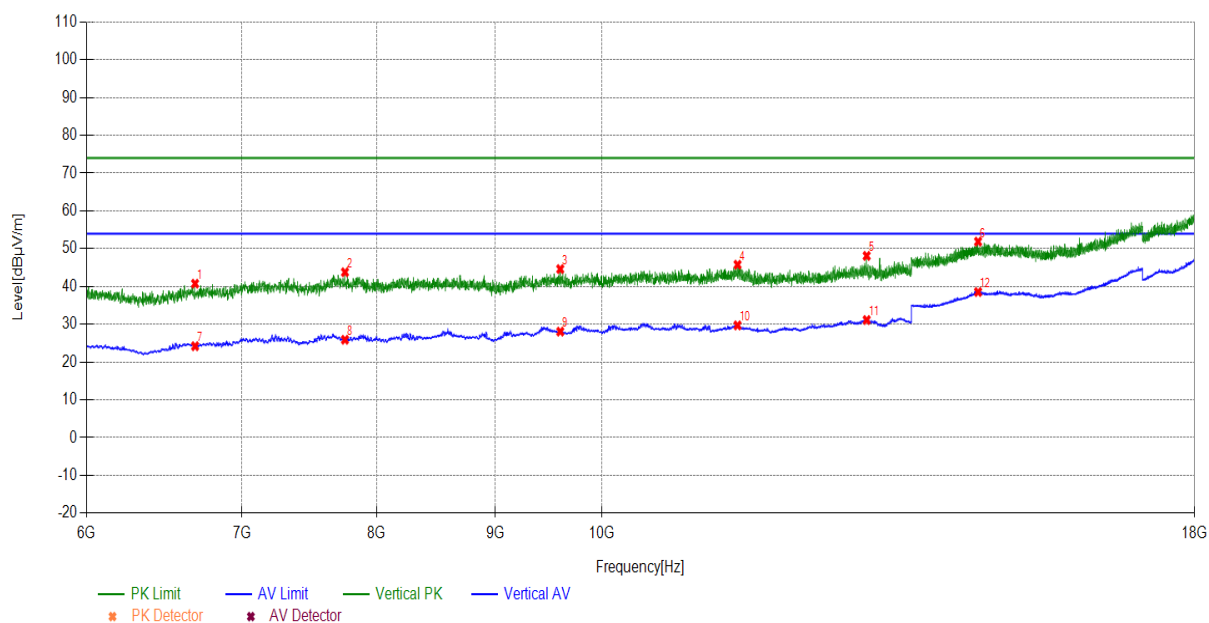
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 3G~6G            |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Vertical         |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 3191.1191         | -2.37       | 49.24            | 46.87          | 74.00          | 27.13       | PK        | 150         | 141       | PASS       |
| 3480.348          | -1.15       | 48.32            | 47.17          | 74.00          | 26.83       | PK        | 150         | 236       | PASS       |
| 3980.498          | -0.17       | 44.75            | 44.58          | 74.00          | 29.42       | PK        | 150         | 296       | PASS       |
| 4498.0498         | -0.64       | 45.38            | 44.74          | 74.00          | 29.26       | PK        | 150         | 2         | PASS       |
| 5239.4239         | 2.17        | 51.32            | 53.49          | 74.00          | 20.51       | PK        | 150         | 93        | PASS       |
| 5318.3318         | 2.34        | 92.76            | 95.10          | 74.00          | -21.10      | PK        | 150         | 81        | ---        |
| 5442.2442         | 2.61        | 46.79            | 49.40          | 74.00          | 24.60       | PK        | 150         | 46        | PASS       |
| 3191.1191         | -2.37       | 37.10            | 34.73          | 54.00          | 19.27       | AV        | 150         | 359       | PASS       |
| 3480.348          | -1.15       | 35.57            | 34.42          | 54.00          | 19.58       | AV        | 150         | 69        | PASS       |
| 3980.498          | -0.17       | 32.19            | 32.02          | 54.00          | 21.98       | AV        | 150         | 2         | PASS       |
| 4498.0498         | -0.64       | 32.21            | 31.57          | 54.00          | 22.43       | AV        | 150         | 359       | PASS       |
| 5241.8242         | 2.18        | 36.79            | 38.97          | 54.00          | 15.03       | AV        | 150         | 93        | PASS       |
| 5314.7315         | 2.33        | 78.29            | 80.62          | 54.00          | -26.62      | AV        | 150         | 93        | ---        |
| 5405.9406         | 2.52        | 34.18            | 36.70          | 54.00          | 17.30       | AV        | 150         | 81        | PASS       |



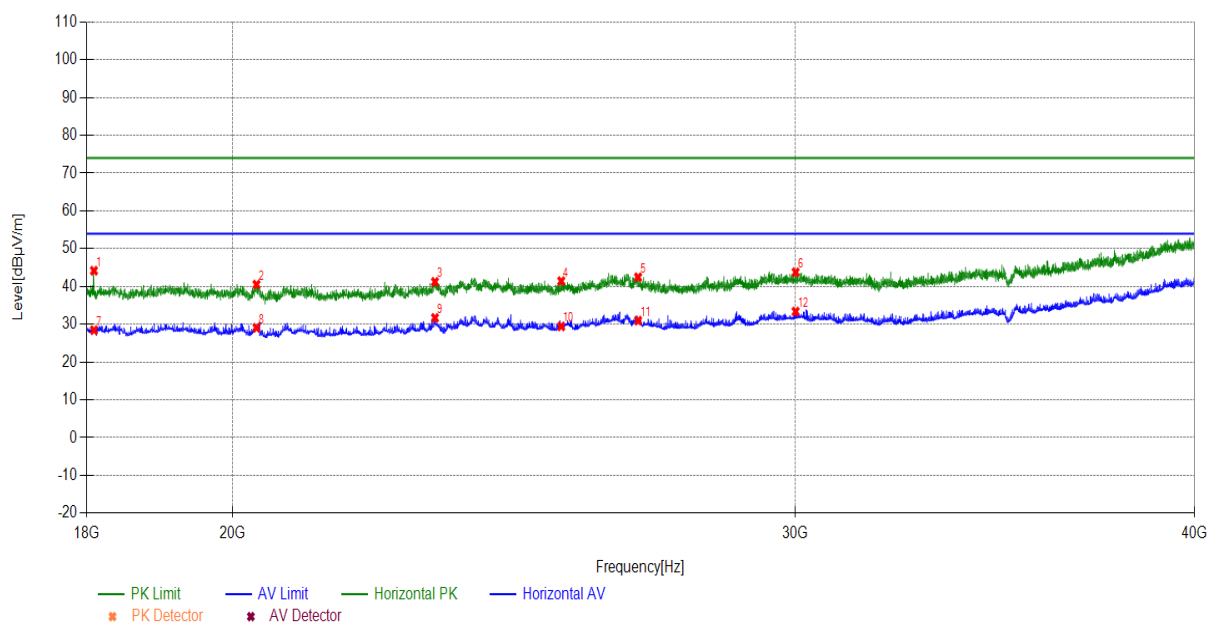
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 6G~18G           |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 7080.108          | 8.03        | 35.13            | 43.16          | 74.00          | 30.84       | PK        | 150         | 236       | PASS       |
| 8274.2274         | 8.86        | 34.58            | 43.44          | 74.00          | 30.56       | PK        | 150         | 93        | PASS       |
| 10420.042         | 11.92       | 34.27            | 46.19          | 74.00          | 27.81       | PK        | 150         | 359       | PASS       |
| 11438.9439        | 11.27       | 34.63            | 45.90          | 74.00          | 28.10       | PK        | 150         | 224       | PASS       |
| 13660.366         | 13.88       | 34.69            | 48.57          | 74.00          | 25.43       | PK        | 150         | 343       | PASS       |
| 14802.8803        | 16.91       | 35.36            | 52.27          | 74.00          | 21.73       | PK        | 150         | 34        | PASS       |
| 7080.108          | 8.03        | 17.74            | 25.77          | 54.00          | 28.23       | AV        | 150         | 236       | PASS       |
| 8274.2274         | 8.86        | 18.41            | 27.27          | 54.00          | 26.73       | AV        | 150         | 359       | PASS       |
| 10420.042         | 11.92       | 17.00            | 28.92          | 54.00          | 25.08       | AV        | 150         | 22        | PASS       |
| 11438.9439        | 11.27       | 17.83            | 29.10          | 54.00          | 24.90       | AV        | 150         | 0         | PASS       |
| 13660.366         | 13.88       | 21.16            | 35.04          | 54.00          | 18.96       | AV        | 150         | 164       | PASS       |
| 14802.8803        | 16.91       | 21.20            | 38.11          | 54.00          | 15.89       | AV        | 150         | 22        | PASS       |



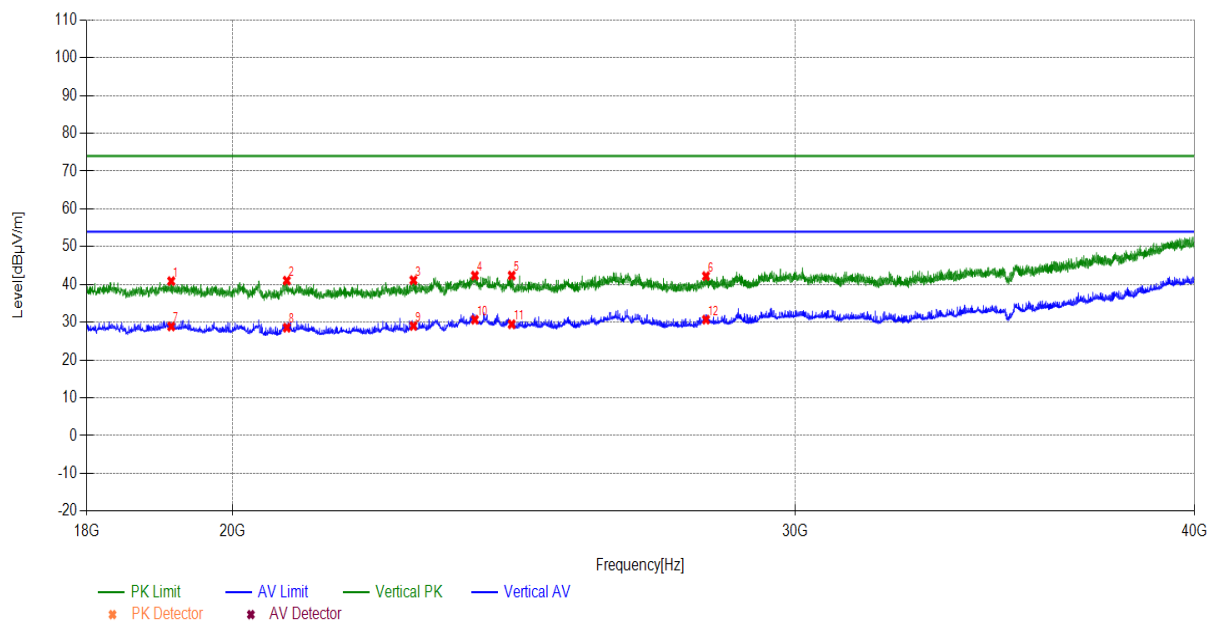
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 6G~18G           |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Vertical         |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 6681.6682         | 6.40        | 34.36            | 40.76          | 74.00          | 33.24       | PK        | 150         | 297       | PASS       |
| 7752.1752         | 8.40        | 35.38            | 43.78          | 74.00          | 30.22       | PK        | 150         | 273       | PASS       |
| 9596.7597         | 11.59       | 33.03            | 44.62          | 74.00          | 29.38       | PK        | 150         | 59        | PASS       |
| 11441.3441        | 11.27       | 34.51            | 45.78          | 74.00          | 28.22       | PK        | 150         | 286       | PASS       |
| 13003.9004        | 13.30       | 34.81            | 48.11          | 74.00          | 25.89       | PK        | 150         | 130       | PASS       |
| 14522.0522        | 17.34       | 34.53            | 51.87          | 74.00          | 22.13       | PK        | 150         | 142       | PASS       |
| 6681.6682         | 6.40        | 17.80            | 24.20          | 54.00          | 29.80       | AV        | 150         | 226       | PASS       |
| 7752.1752         | 8.40        | 17.50            | 25.90          | 54.00          | 28.10       | AV        | 150         | 226       | PASS       |
| 9596.7597         | 11.59       | 16.47            | 28.06          | 54.00          | 25.94       | AV        | 150         | 226       | PASS       |
| 11441.3441        | 11.27       | 18.44            | 29.71          | 54.00          | 24.29       | AV        | 150         | 24        | PASS       |
| 13003.9004        | 13.30       | 17.84            | 31.14          | 54.00          | 22.86       | AV        | 150         | 262       | PASS       |
| 14522.0522        | 17.34       | 21.21            | 38.55          | 54.00          | 15.45       | AV        | 150         | 35        | PASS       |



|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 18G~40G          |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 18096.8097        | 1.12        | 43.07            | 44.19          | 74.00          | 29.81       | PK        | 150         | 130       | PASS       |
| 20345.4345        | 1.42        | 39.10            | 40.52          | 74.00          | 33.48       | PK        | 150         | 320       | PASS       |
| 23137.5138        | 3.01        | 38.22            | 41.23          | 74.00          | 32.77       | PK        | 150         | 270       | PASS       |
| 25342.1342        | 4.24        | 37.19            | 41.43          | 74.00          | 32.57       | PK        | 150         | 260       | PASS       |
| 26785.4785        | 4.81        | 37.64            | 42.45          | 74.00          | 31.55       | PK        | 150         | 180       | PASS       |
| 30004.4004        | 6.70        | 37.08            | 43.78          | 74.00          | 30.22       | PK        | 150         | 270       | PASS       |
| 18096.8097        | 1.12        | 27.32            | 28.44          | 54.00          | 25.56       | AV        | 150         | 60        | PASS       |
| 20345.4345        | 1.42        | 27.65            | 29.07          | 54.00          | 24.93       | AV        | 150         | 230       | PASS       |
| 23137.5138        | 3.01        | 28.68            | 31.69          | 54.00          | 22.31       | AV        | 150         | 10        | PASS       |
| 25342.1342        | 4.24        | 25.22            | 29.46          | 54.00          | 24.54       | AV        | 150         | 150       | PASS       |
| 26785.4785        | 4.81        | 26.15            | 30.96          | 54.00          | 23.04       | AV        | 150         | 170       | PASS       |
| 30004.4004        | 6.70        | 26.68            | 33.38          | 54.00          | 20.62       | AV        | 150         | 10        | PASS       |



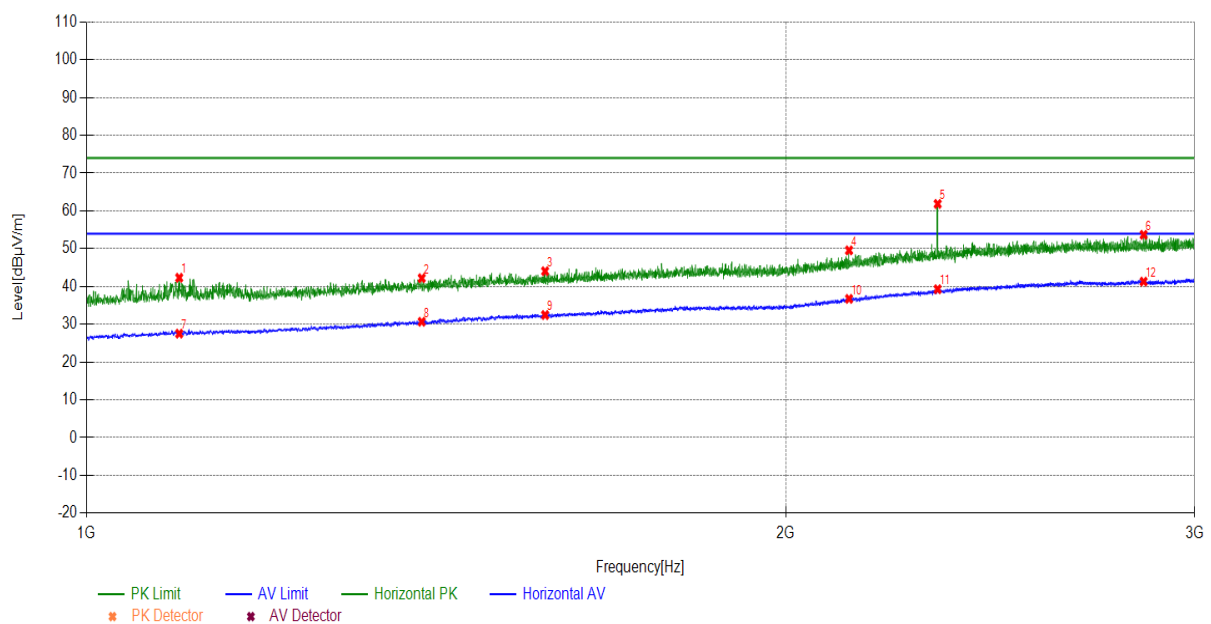
|                    |                |                     |                       |                       |                |              |                |              |               |
|--------------------|----------------|---------------------|-----------------------|-----------------------|----------------|--------------|----------------|--------------|---------------|
| Radiates Emission  |                | 18G~40G             |                       |                       |                |              |                |              |               |
| Test channel       |                | Worst-Case          |                       |                       |                |              |                |              |               |
| polarization       |                | Vertical            |                       |                       |                |              |                |              |               |
| Suspected List     |                |                     |                       |                       |                |              |                |              |               |
| Frequency<br>[MHz] | Factor<br>[dB] | Reading<br>[dBμV/m] | Level<br>[dBμV/<br>m] | Limit<br>[dBμV/<br>m] | Margin<br>[dB] | Detect<br>or | Height<br>[cm] | Angle<br>deg | Pass/<br>Fail |
| 19133.1133         | 1.34           | 39.56               | 40.90                 | 74.00                 | 33.10          | PK           | 150            | 230          | PASS          |
| 20794.2794         | 1.58           | 39.44               | 41.02                 | 74.00                 | 32.98          | PK           | 150            | 200          | PASS          |
| 22781.0781         | 2.68           | 38.46               | 41.14                 | 74.00                 | 32.86          | PK           | 150            | 260          | PASS          |
| 23812.9813         | 3.55           | 38.80               | 42.35                 | 74.00                 | 31.65          | PK           | 150            | 310          | PASS          |
| 24453.2453         | 3.88           | 38.49               | 42.37                 | 74.00                 | 31.63          | PK           | 150            | 70           | PASS          |
| 28127.6128         | 5.48           | 36.75               | 42.23                 | 74.00                 | 31.77          | PK           | 150            | 220          | PASS          |
| 19133.1133         | 1.34           | 27.56               | 28.90                 | 54.00                 | 25.10          | AV           | 150            | 180          | PASS          |
| 20794.2794         | 1.58           | 26.99               | 28.57                 | 54.00                 | 25.43          | AV           | 150            | 290          | PASS          |
| 22781.0781         | 2.68           | 26.36               | 29.04                 | 54.00                 | 24.96          | AV           | 150            | 260          | PASS          |
| 23812.9813         | 3.55           | 27.14               | 30.69                 | 54.00                 | 23.31          | AV           | 150            | 360          | PASS          |
| 24453.2453         | 3.88           | 25.60               | 29.48                 | 54.00                 | 24.52          | AV           | 150            | 190          | PASS          |
| 28127.6128         | 5.48           | 25.23               | 30.71                 | 54.00                 | 23.29          | AV           | 150            | 190          | PASS          |



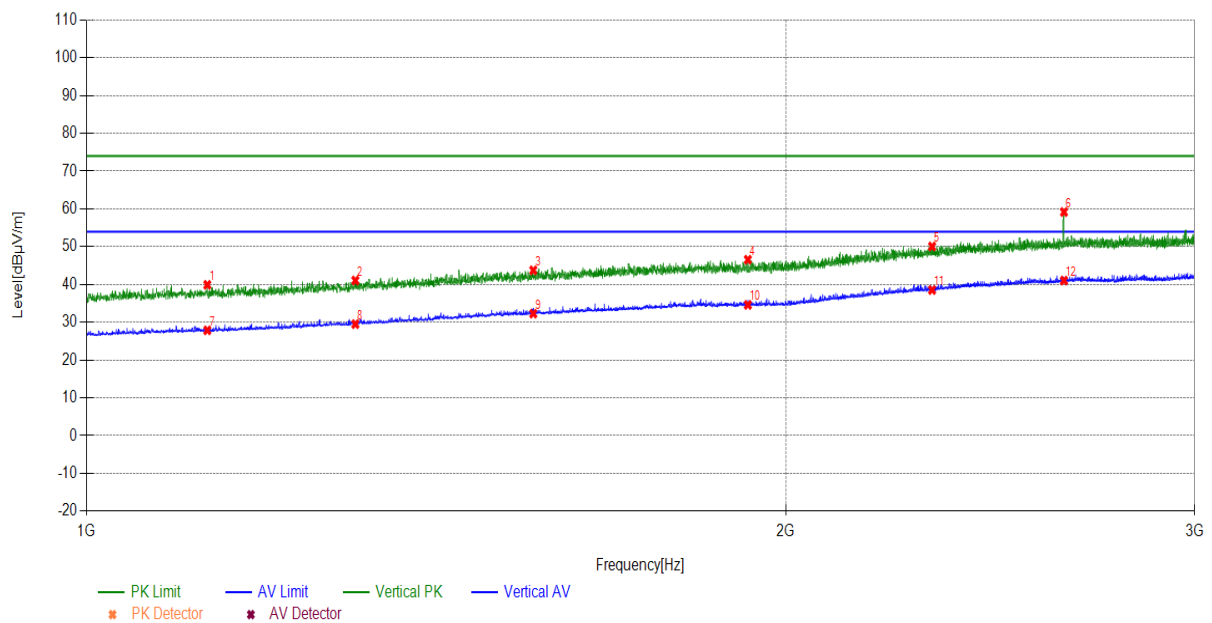
**(6) U-NII-3:**

During the test, the Radiates Emission from 1GHz to 40GHz was performed in all modes with all channels and all antennas, 802.11n20, Channel 149, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

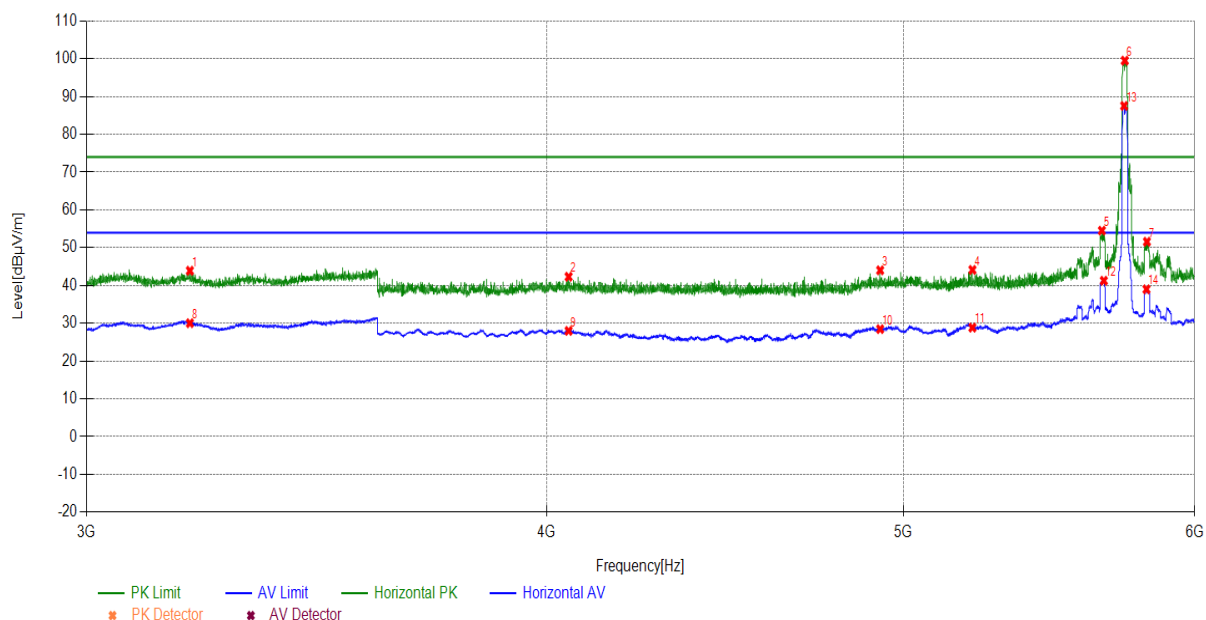
|                    |                |                     |                       |                       |                |              |                |              |               |
|--------------------|----------------|---------------------|-----------------------|-----------------------|----------------|--------------|----------------|--------------|---------------|
| Radiates Emission  |                | 1G~3G               |                       |                       |                |              |                |              |               |
| Test channel       |                | Worst-Case          |                       |                       |                |              |                |              |               |
| polarization       |                | Horizontal          |                       |                       |                |              |                |              |               |
| Suspected List     |                |                     |                       |                       |                |              |                |              |               |
| Frequency<br>[MHz] | Factor<br>[dB] | Reading<br>[dBμV/m] | Level<br>[dBμV/<br>m] | Limit<br>[dBμV/<br>m] | Margin<br>[dB] | Detect<br>or | Height<br>[cm] | Angle<br>deg | Pass/<br>Fail |
| 1096.2096          | 27.00          | 15.32               | 42.32                 | 74.00                 | 31.68          | PK           | 150            | 334          | PASS          |
| 1394.2394          | 29.76          | 12.45               | 42.21                 | 74.00                 | 31.79          | PK           | 150            | 320          | PASS          |
| 1575.6576          | 31.36          | 12.69               | 44.05                 | 74.00                 | 29.95          | PK           | 150            | 320          | PASS          |
| 2129.713           | 34.69          | 14.88               | 49.57                 | 74.00                 | 24.43          | PK           | 150            | 358          | PASS          |
| 2325.3325          | 36.67          | 25.18               | 61.85                 | 74.00                 | 12.15          | PK           | 150            | 358          | PASS          |
| 2852.1852          | 38.96          | 14.72               | 53.68                 | 74.00                 | 20.32          | PK           | 150            | 334          | PASS          |
| 1096.2096          | 27.00          | 0.52                | 27.52                 | 54.00                 | 26.48          | AV           | 150            | 334          | PASS          |
| 1394.2394          | 29.76          | 0.91                | 30.67                 | 54.00                 | 23.33          | AV           | 150            | 358          | PASS          |
| 1575.6576          | 31.36          | 1.09                | 32.45                 | 54.00                 | 21.55          | AV           | 150            | 358          | PASS          |
| 2129.713           | 34.69          | 2.04                | 36.73                 | 54.00                 | 17.27          | AV           | 150            | 358          | PASS          |
| 2325.3325          | 36.67          | 2.62                | 39.29                 | 54.00                 | 14.71          | AV           | 150            | 358          | PASS          |
| 2852.1852          | 38.96          | 2.35                | 41.31                 | 54.00                 | 12.69          | AV           | 150            | 334          | PASS          |



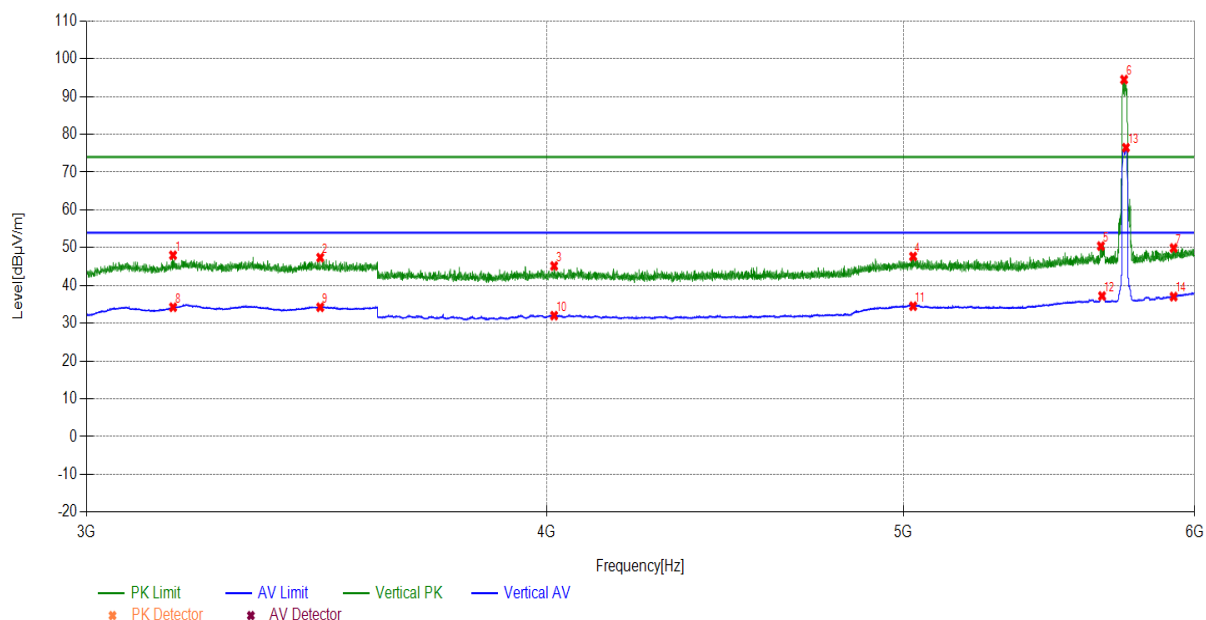
|                    |                |                     |                       |                       |                |              |                |              |               |
|--------------------|----------------|---------------------|-----------------------|-----------------------|----------------|--------------|----------------|--------------|---------------|
| Radiates Emission  |                | 1G~3G               |                       |                       |                |              |                |              |               |
| Test channel       |                | Worst-Case          |                       |                       |                |              |                |              |               |
| polarization       |                | Vertical            |                       |                       |                |              |                |              |               |
| Suspected List     |                |                     |                       |                       |                |              |                |              |               |
| Frequency<br>[MHz] | Factor<br>[dB] | Reading<br>[dBμV/m] | Level<br>[dBμV/<br>m] | Limit<br>[dBμV/<br>m] | Margin<br>[dB] | Detect<br>or | Height<br>[cm] | Angle<br>deg | Pass/<br>Fail |
| 1127.2127          | 27.28          | 12.64               | 39.92                 | 74.00                 | 34.08          | PK           | 150            | 350          | PASS          |
| 1305.4305          | 28.92          | 12.15               | 41.07                 | 74.00                 | 32.93          | PK           | 150            | 20           | PASS          |
| 1557.2557          | 31.26          | 12.50               | 43.76                 | 74.00                 | 30.24          | PK           | 150            | 130          | PASS          |
| 1926.4926          | 33.07          | 13.50               | 46.57                 | 74.00                 | 27.43          | PK           | 150            | 220          | PASS          |
| 2312.5313          | 36.55          | 13.52               | 50.07                 | 74.00                 | 23.93          | PK           | 150            | 160          | PASS          |
| 2635.5636          | 38.30          | 20.89               | 59.19                 | 74.00                 | 14.81          | PK           | 150            | 320          | PASS          |
| 1127.2127          | 27.28          | 0.60                | 27.88                 | 54.00                 | 26.12          | AV           | 150            | 240          | PASS          |
| 1305.4305          | 28.92          | 0.60                | 29.52                 | 54.00                 | 24.48          | AV           | 150            | 210          | PASS          |
| 1557.2557          | 31.26          | 1.02                | 32.28                 | 54.00                 | 21.72          | AV           | 150            | 270          | PASS          |
| 1926.4926          | 33.07          | 1.54                | 34.61                 | 54.00                 | 19.39          | AV           | 150            | 210          | PASS          |
| 2312.5313          | 36.55          | 2.00                | 38.55                 | 54.00                 | 15.45          | AV           | 150            | 340          | PASS          |
| 2635.5636          | 38.30          | 2.75                | 41.05                 | 54.00                 | 12.95          | AV           | 150            | 40           | PASS          |



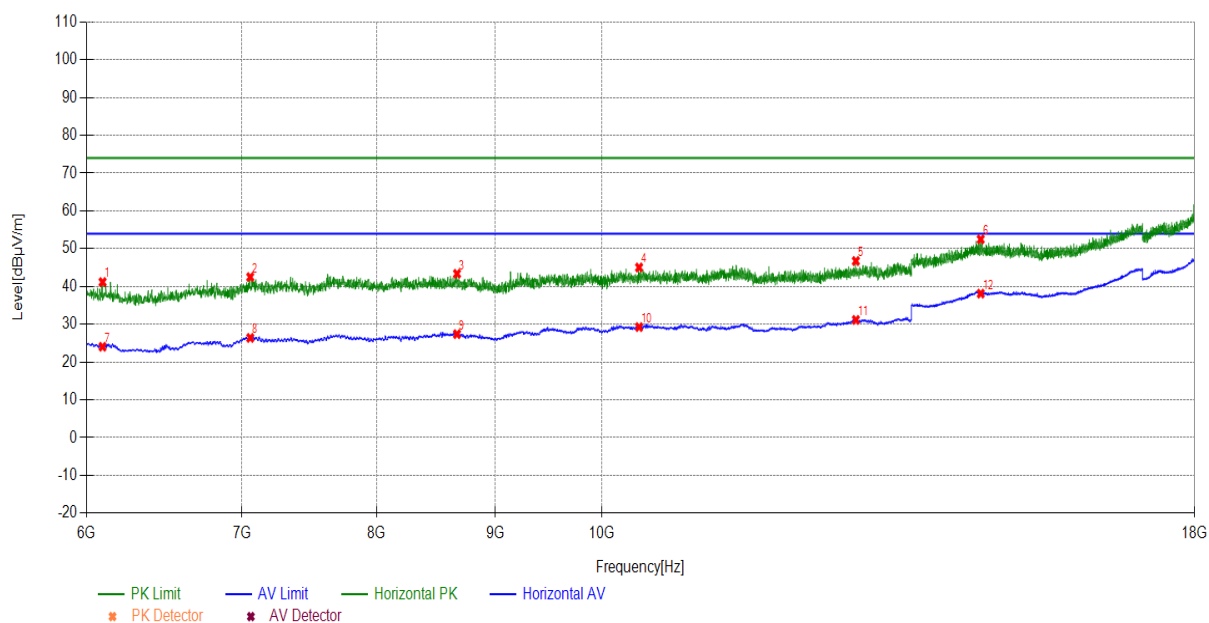
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 3G~6G            |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 3200.42           | -2.33       | 46.24            | 43.91          | 74.00          | 30.09       | PK        | 150         | 6         | PASS       |
| 4055.8056         | -0.19       | 42.51            | 42.32          | 74.00          | 31.68       | PK        | 150         | 242       | PASS       |
| 4928.5929         | 1.15        | 42.87            | 44.02          | 74.00          | 29.98       | PK        | 150         | 12        | PASS       |
| 5221.4221         | 2.14        | 41.99            | 44.13          | 74.00          | 29.87       | PK        | 150         | 12        | PASS       |
| 5661.8662         | 3.48        | 51.04            | 54.52          | 74.00          | 19.48       | PK        | 150         | 313       | PASS       |
| 5743.4743         | 3.85        | 95.66            | 99.51          | 74.00          | -25.51      | PK        | 150         | 278       | ---        |
| 5823.5824         | 4.21        | 47.38            | 51.59          | 74.00          | 22.41       | PK        | 150         | 100       | PASS       |
| 3200.42           | -2.33       | 32.35            | 30.02          | 54.00          | 23.98       | AV        | 150         | 104       | PASS       |
| 4055.8056         | -0.19       | 28.18            | 27.99          | 54.00          | 26.01       | AV        | 150         | 21        | PASS       |
| 4928.5929         | 1.15        | 27.31            | 28.46          | 54.00          | 25.54       | AV        | 150         | 70        | PASS       |
| 5221.4221         | 2.14        | 26.71            | 28.85          | 54.00          | 25.15       | AV        | 150         | 60        | PASS       |
| 5668.7669         | 3.51        | 37.76            | 41.27          | 54.00          | 12.73       | AV        | 150         | 65        | PASS       |
| 5741.3741         | 3.84        | 83.69            | 87.53          | 54.00          | -33.53      | AV        | 150         | 65        | ---        |
| 5822.0822         | 4.20        | 34.79            | 38.99          | 54.00          | 15.01       | AV        | 150         | 17        | PASS       |



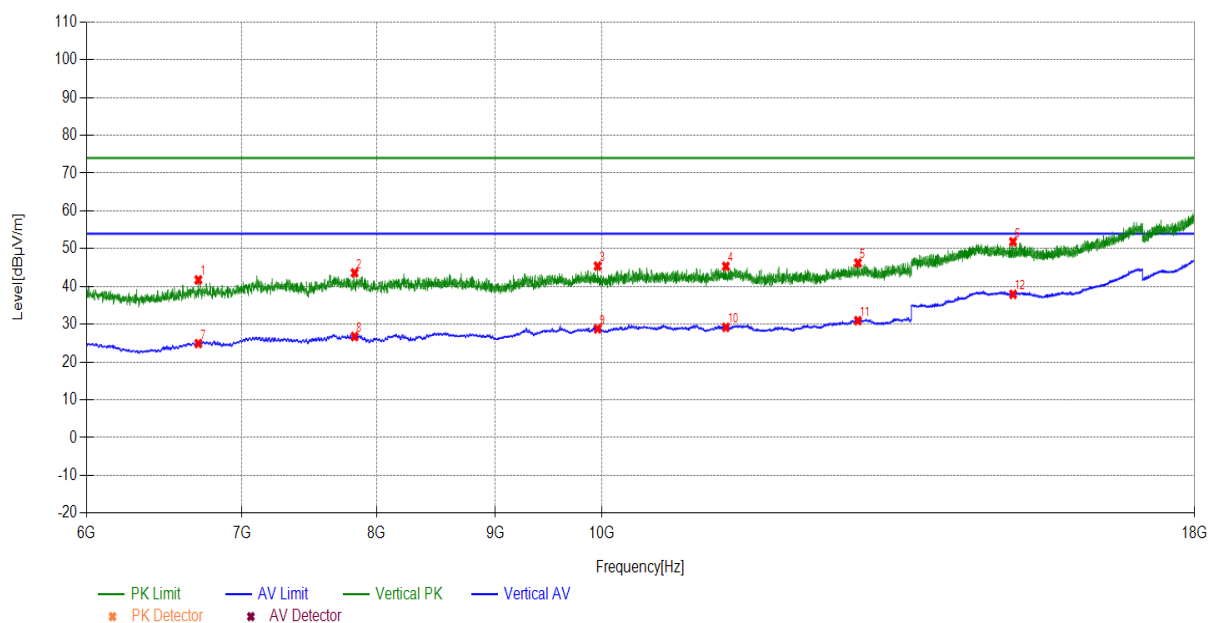
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 3G~6G            |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Vertical         |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 3166.8167         | -2.46       | 50.46            | 48.00          | 74.00          | 26.00       | PK        | 150         | 87        | PASS       |
| 3472.2472         | -1.18       | 48.57            | 47.39          | 74.00          | 26.61       | PK        | 150         | 206       | PASS       |
| 4019.2019         | -0.15       | 45.31            | 45.16          | 74.00          | 28.84       | PK        | 150         | 194       | PASS       |
| 5031.2031         | 1.56        | 46.11            | 47.67          | 74.00          | 26.33       | PK        | 150         | 0         | PASS       |
| 5658.2658         | 3.46        | 46.97            | 50.43          | 74.00          | 23.57       | PK        | 150         | 40        | PASS       |
| 5741.0741         | 3.84        | 90.65            | 94.49          | 74.00          | -20.49      | PK        | 150         | 277       | ---        |
| 5921.6922         | 4.63        | 45.30            | 49.93          | 74.00          | 24.07       | PK        | 150         | 51        | PASS       |
| 3166.8167         | -2.46       | 36.71            | 34.25          | 54.00          | 19.75       | AV        | 150         | 229       | PASS       |
| 3472.2472         | -1.18       | 35.43            | 34.25          | 54.00          | 19.75       | AV        | 150         | 325       | PASS       |
| 4019.2019         | -0.15       | 32.18            | 32.03          | 54.00          | 21.97       | AV        | 150         | 357       | PASS       |
| 5031.2031         | 1.56        | 32.97            | 34.53          | 54.00          | 19.47       | AV        | 150         | 0         | PASS       |
| 5662.4662         | 3.48        | 33.74            | 37.22          | 54.00          | 16.78       | AV        | 150         | 16        | PASS       |
| 5747.6748         | 3.87        | 72.61            | 76.48          | 54.00          | -22.48      | AV        | 150         | 27        | ---        |
| 5921.6922         | 4.63        | 32.44            | 37.07          | 54.00          | 16.93       | AV        | 150         | 16        | PASS       |



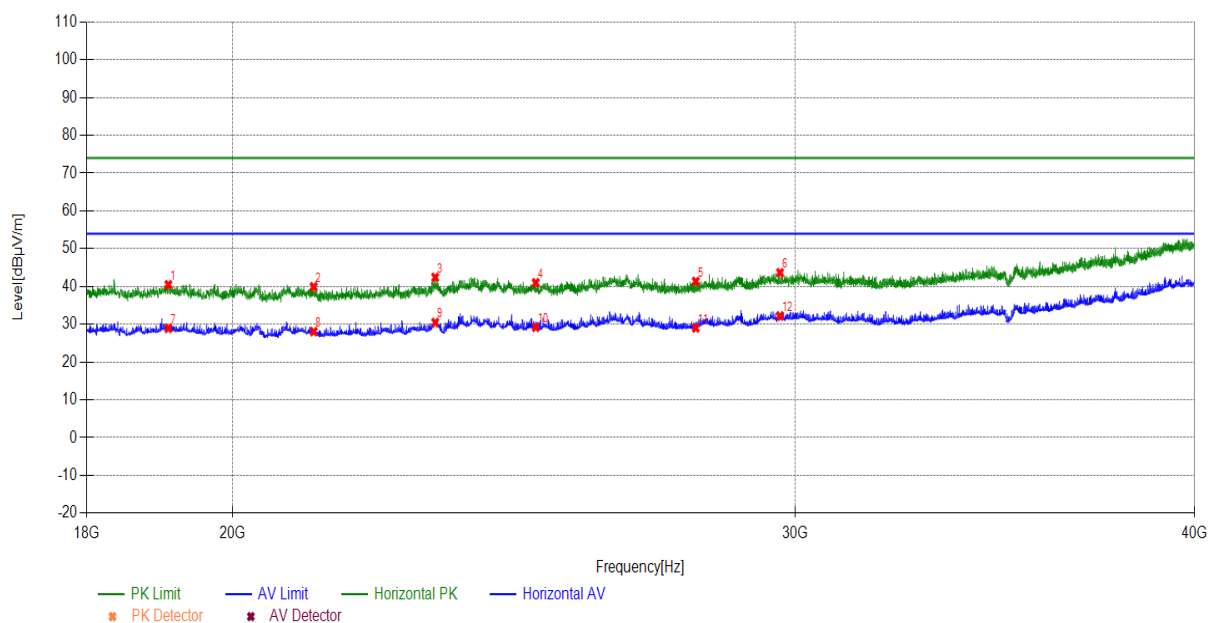
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 6G~18G           |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 6096.0096         | 5.02        | 36.16            | 41.18          | 74.00          | 32.82       | PK        | 150         | 246       | PASS       |
| 7057.3057         | 8.03        | 34.47            | 42.50          | 74.00          | 31.50       | PK        | 150         | 163       | PASS       |
| 8663.0663         | 9.25        | 34.12            | 43.37          | 74.00          | 30.63       | PK        | 150         | 258       | PASS       |
| 10376.8377        | 11.90       | 33.14            | 45.04          | 74.00          | 28.96       | PK        | 150         | 32        | PASS       |
| 12864.6865        | 12.95       | 33.79            | 46.74          | 74.00          | 27.26       | PK        | 150         | 352       | PASS       |
| 14560.456         | 17.24       | 35.25            | 52.49          | 74.00          | 21.51       | PK        | 150         | 359       | PASS       |
| 6096.0096         | 5.02        | 19.04            | 24.06          | 54.00          | 29.94       | AV        | 150         | 359       | PASS       |
| 7057.3057         | 8.03        | 18.37            | 26.40          | 54.00          | 27.60       | AV        | 150         | 44        | PASS       |
| 8663.0663         | 9.25        | 18.14            | 27.39          | 54.00          | 26.61       | AV        | 150         | 56        | PASS       |
| 10376.8377        | 11.90       | 17.37            | 29.27          | 54.00          | 24.73       | AV        | 150         | 2         | PASS       |
| 12864.6865        | 12.95       | 18.21            | 31.16          | 54.00          | 22.84       | AV        | 150         | 359       | PASS       |
| 14560.456         | 17.24       | 20.88            | 38.12          | 54.00          | 15.88       | AV        | 150         | 44        | PASS       |



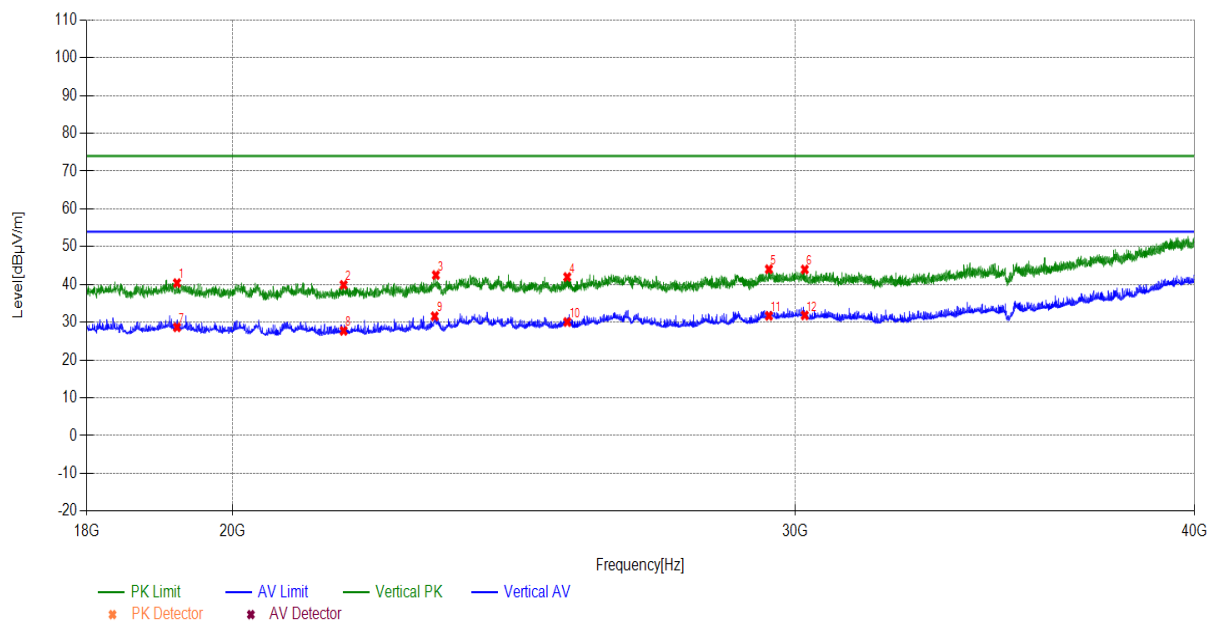
|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 6G~18G           |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Vertical         |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 6703.2703         | 6.50        | 35.25            | 41.75          | 74.00          | 32.25       | PK        | 150         | 360       | PASS       |
| 7826.5827         | 8.43        | 35.16            | 43.59          | 74.00          | 30.41       | PK        | 150         | 263       | PASS       |
| 9959.1959         | 11.52       | 33.87            | 45.39          | 74.00          | 28.61       | PK        | 150         | 360       | PASS       |
| 11309.3309        | 11.42       | 33.92            | 45.34          | 74.00          | 28.66       | PK        | 150         | 60        | PASS       |
| 12891.0891        | 13.02       | 33.20            | 46.22          | 74.00          | 27.78       | PK        | 150         | 286       | PASS       |
| 15034.5034        | 16.43       | 35.41            | 51.84          | 74.00          | 22.16       | PK        | 150         | 179       | PASS       |
| 6703.2703         | 6.50        | 18.41            | 24.91          | 54.00          | 29.09       | AV        | 150         | 356       | PASS       |
| 7826.5827         | 8.43        | 18.34            | 26.77          | 54.00          | 27.23       | AV        | 150         | 346       | PASS       |
| 9959.1959         | 11.52       | 17.29            | 28.81          | 54.00          | 25.19       | AV        | 150         | 346       | PASS       |
| 11309.3309        | 11.42       | 17.78            | 29.20          | 54.00          | 24.80       | AV        | 150         | 191       | PASS       |
| 12891.0891        | 13.02       | 17.94            | 30.96          | 54.00          | 23.04       | AV        | 150         | 4         | PASS       |
| 15034.5034        | 16.43       | 21.49            | 37.92          | 54.00          | 16.08       | AV        | 150         | 4         | PASS       |



|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 18G~40G          |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 19093.5094        | 1.35        | 39.13            | 40.48          | 74.00          | 33.52       | PK        | 150         | 250       | PASS       |
| 21201.3201        | 1.70        | 38.24            | 39.94          | 74.00          | 34.06       | PK        | 150         | 140       | PASS       |
| 23141.9142        | 3.01        | 39.42            | 42.43          | 74.00          | 31.57       | PK        | 150         | 120       | PASS       |
| 24880.088         | 4.05        | 36.95            | 41.00          | 74.00          | 33.00       | PK        | 150         | 190       | PASS       |
| 27920.7921        | 5.36        | 35.99            | 41.35          | 74.00          | 32.65       | PK        | 150         | 20        | PASS       |
| 29669.967         | 6.47        | 37.19            | 43.66          | 74.00          | 30.34       | PK        | 150         | 120       | PASS       |
| 19093.5094        | 1.35        | 27.57            | 28.92          | 54.00          | 25.08       | AV        | 150         | 190       | PASS       |
| 21201.3201        | 1.70        | 26.36            | 28.06          | 54.00          | 25.94       | AV        | 150         | 130       | PASS       |
| 23141.9142        | 3.01        | 27.47            | 30.48          | 54.00          | 23.52       | AV        | 150         | 40        | PASS       |
| 24880.088         | 4.05        | 25.17            | 29.22          | 54.00          | 24.78       | AV        | 150         | 10        | PASS       |
| 27920.7921        | 5.36        | 23.68            | 29.04          | 54.00          | 24.96       | AV        | 150         | 290       | PASS       |
| 29669.967         | 6.47        | 25.74            | 32.21          | 54.00          | 21.79       | AV        | 150         | 10        | PASS       |



|                   |             |                  |                |                |             |           |             |           |            |
|-------------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Radiates Emission |             | 18G~40G          |                |                |             |           |             |           |            |
| Test channel      |             | Worst-Case       |                |                |             |           |             |           |            |
| polarization      |             | Vertical         |                |                |             |           |             |           |            |
| Suspected List    |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz]   | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detect or | Height [cm] | Angle deg | Pass/ Fail |
| 19212.3212        | 1.34        | 39.04            | 40.38          | 74.00          | 33.62       | PK        | 150         | 30        | PASS       |
| 21663.3663        | 1.82        | 38.08            | 39.90          | 74.00          | 34.10       | PK        | 150         | 270       | PASS       |
| 23152.9153        | 3.02        | 39.48            | 42.50          | 74.00          | 31.50       | PK        | 150         | 20        | PASS       |
| 25452.1452        | 4.28        | 37.71            | 41.99          | 74.00          | 32.01       | PK        | 150         | 270       | PASS       |
| 29432.3432        | 6.30        | 37.75            | 44.05          | 74.00          | 29.95       | PK        | 150         | 200       | PASS       |
| 30202.4202        | 6.61        | 37.36            | 43.97          | 74.00          | 30.03       | PK        | 150         | 330       | PASS       |
| 19212.3212        | 1.34        | 27.35            | 28.69          | 54.00          | 25.31       | AV        | 150         | 40        | PASS       |
| 21663.3663        | 1.82        | 25.91            | 27.73          | 54.00          | 26.27       | AV        | 150         | 90        | PASS       |
| 23133.1133        | 3.01        | 28.59            | 31.60          | 54.00          | 22.40       | AV        | 150         | 10        | PASS       |
| 25452.1452        | 4.28        | 25.79            | 30.07          | 54.00          | 23.93       | AV        | 150         | 230       | PASS       |
| 29432.3432        | 6.30        | 25.41            | 31.71          | 54.00          | 22.29       | AV        | 150         | 190       | PASS       |
| 30202.4202        | 6.61        | 25.22            | 31.83          | 54.00          | 22.17       | AV        | 150         | 280       | PASS       |



5.2.2 Band edge measurements (Radiates):

Test Results:

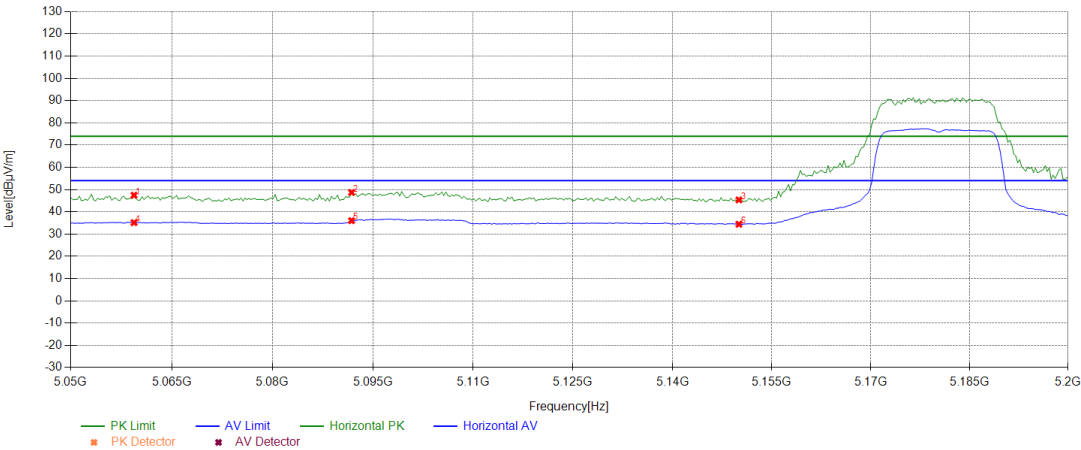
Model: EMC3290-S

U-NII-1, U-NII-2A: 5150-5350MHz:

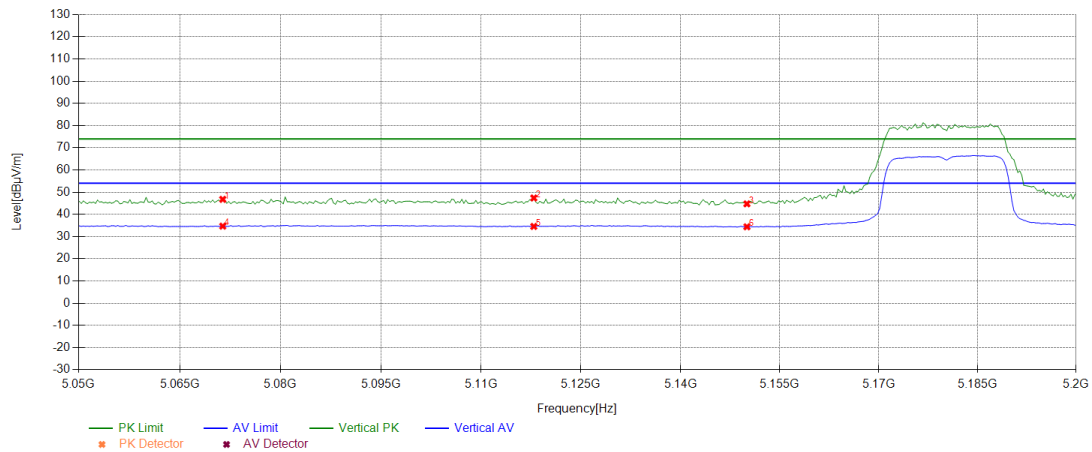
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

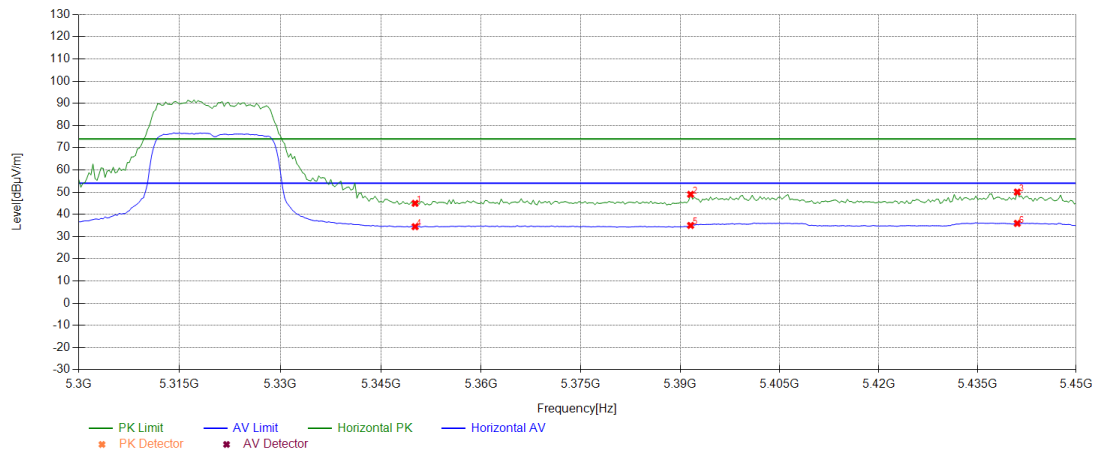
|                 |             |                  |                |                |             |           |             |           |            |
|-----------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             | 802.11n20        |                |                |             |           |             |           |            |
| Test channel    |             | Lowest channel   |                |                |             |           |             |           |            |
| polarization    |             | Horizontal       |                |                |             |           |             |           |            |
| Suspected List  |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5059.4059       | 1.65        | 45.81            | 47.46          | 74.00          | 26.54       | PK        | 150         | 305       | PASS       |
| 5091.8092       | 1.75        | 46.95            | 48.70          | 74.00          | 25.30       | PK        | 150         | 269       | PASS       |
| 5150.015        | 1.93        | 43.44            | 45.37          | 74.00          | 28.63       | PK        | 150         | 317       | PASS       |
| 5059.4059       | 1.65        | 33.48            | 35.13          | 54.00          | 18.87       | AV        | 150         | 257       | PASS       |
| 5091.8092       | 1.75        | 34.28            | 36.03          | 54.00          | 17.97       | AV        | 150         | 257       | PASS       |
| 5150.015        | 1.93        | 32.48            | 34.41          | 54.00          | 19.59       | AV        | 150         | 90        | PASS       |



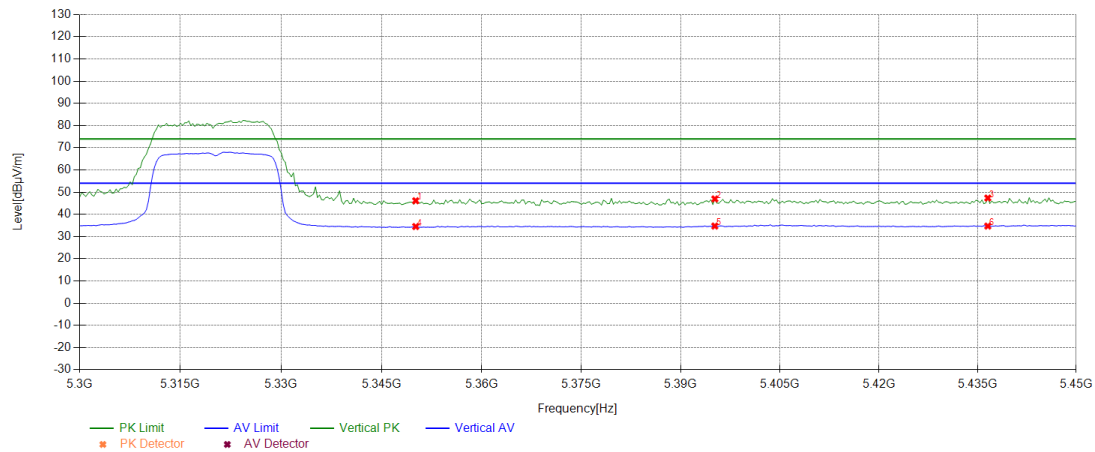
|                 |             |                  |                |                |             |           |             |           |            |
|-----------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20      |                |             |           |             |           |            |
| Test channel    |             |                  | Lowest channel |                |             |           |             |           |            |
| polarization    |             |                  | Vertical       |                |             |           |             |           |            |
| Suspected List  |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5071.4071       | 1.69        | 45.05            | 46.74          | 74.00          | 27.26       | PK        | 150         | 74        | PASS       |
| 5117.9118       | 1.83        | 45.54            | 47.37          | 74.00          | 26.63       | PK        | 150         | 169       | PASS       |
| 5150.015        | 1.93        | 42.81            | 44.74          | 74.00          | 29.26       | PK        | 150         | 169       | PASS       |
| 5071.4071       | 1.69        | 32.99            | 34.68          | 54.00          | 19.32       | AV        | 150         | 38        | PASS       |
| 5117.9118       | 1.83        | 32.74            | 34.57          | 54.00          | 19.43       | AV        | 150         | 38        | PASS       |
| 5150.015        | 1.93        | 32.46            | 34.39          | 54.00          | 19.61       | AV        | 150         | 4         | PASS       |



|                 |             |                  |                 |                |             |           |             |           |            |
|-----------------|-------------|------------------|-----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20       |                |             |           |             |           |            |
| Test channel    |             |                  | Highest channel |                |             |           |             |           |            |
| polarization    |             |                  | Horizontal      |                |             |           |             |           |            |
| Suspected List  |             |                  |                 |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5350.135        | 2.40        | 42.57            | 44.97           | 74.00          | 29.03       | PK        | 150         | 327       | PASS       |
| 5391.5392       | 2.49        | 46.51            | 49.00           | 74.00          | 25.00       | PK        | 150         | 280       | PASS       |
| 5441.0441       | 2.61        | 47.43            | 50.04           | 74.00          | 23.96       | PK        | 150         | 280       | PASS       |
| 5350.135        | 2.40        | 32.04            | 34.44           | 54.00          | 19.56       | AV        | 150         | 1         | PASS       |
| 5391.5392       | 2.49        | 32.50            | 34.99           | 54.00          | 19.01       | AV        | 150         | 327       | PASS       |
| 5441.0441       | 2.61        | 33.32            | 35.93           | 54.00          | 18.07       | AV        | 150         | 327       | PASS       |



|                 |             |                  |                 |                |             |           |             |           |            |
|-----------------|-------------|------------------|-----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20       |                |             |           |             |           |            |
| Test channel    |             |                  | Highest channel |                |             |           |             |           |            |
| polarization    |             |                  | Vertical        |                |             |           |             |           |            |
| Suspected List  |             |                  |                 |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5350.135        | 2.40        | 43.74            | 46.14           | 74.00          | 27.86       | PK        | 150         | 238       | PASS       |
| 5395.1395       | 2.49        | 44.44            | 46.93           | 74.00          | 27.07       | PK        | 150         | 226       | PASS       |
| 5436.5437       | 2.60        | 44.74            | 47.34           | 74.00          | 26.66       | PK        | 150         | 3         | PASS       |
| 5350.135        | 2.40        | 32.10            | 34.50           | 54.00          | 19.50       | AV        | 150         | 3         | PASS       |
| 5395.1395       | 2.49        | 32.23            | 34.72           | 54.00          | 19.28       | AV        | 150         | 3         | PASS       |
| 5436.5437       | 2.60        | 32.11            | 34.71           | 54.00          | 19.29       | AV        | 150         | 333       | PASS       |

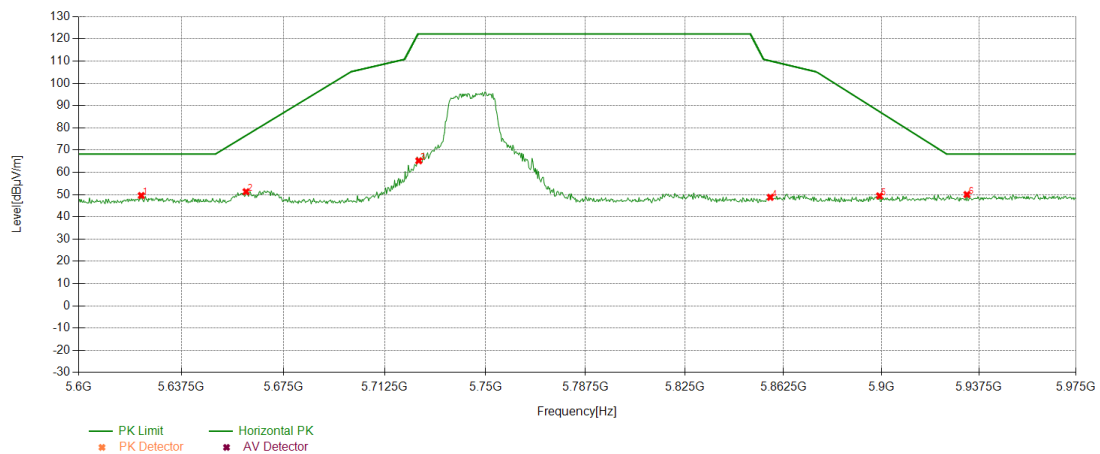


U-NII-3 5725-5850MHz:

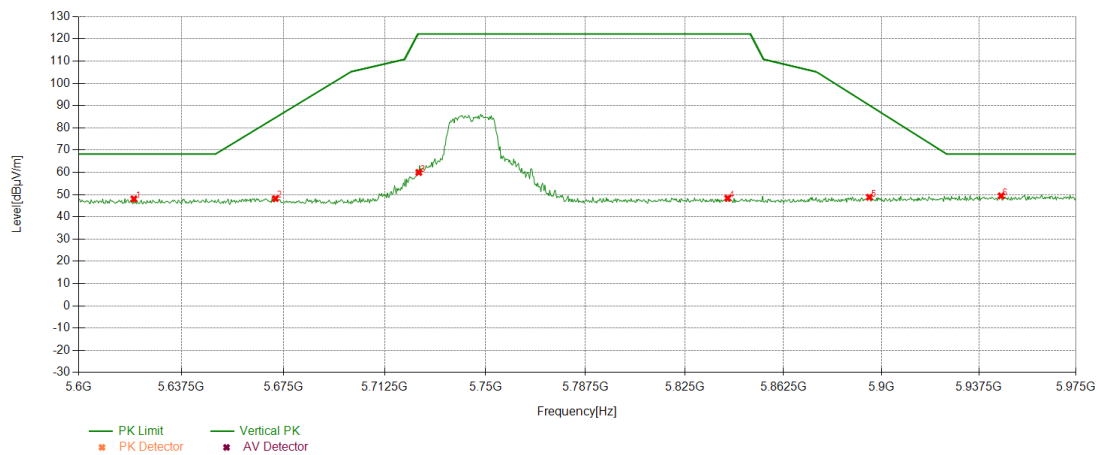
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

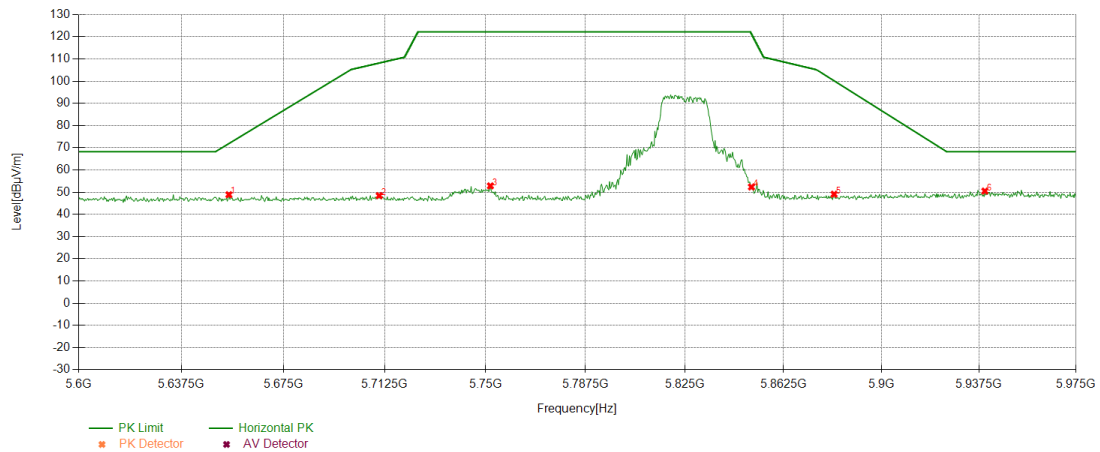
|                 |             |                  |                |                |             |           |             |           |            |
|-----------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20      |                |             |           |             |           |            |
| Test channel    |             |                  | Lowest channel |                |             |           |             |           |            |
| polarization    |             |                  | Horizontal     |                |             |           |             |           |            |
| Suspected List  |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5622.8623       | 3.30        | 46.28            | 49.58          | 68.20          | 18.62       | PK        | 150         | 280       | PASS       |
| 5661.2661       | 3.48        | 47.81            | 51.29          | 76.57          | 25.28       | PK        | 150         | 280       | PASS       |
| 5725.1725       | 3.77        | 61.44            | 65.21          | 122.20         | 56.99       | PK        | 150         | 280       | PASS       |
| 5857.4857       | 4.35        | 44.42            | 48.77          | 110.10         | 61.33       | AV        | 150         | 304       | PASS       |
| 5899.1899       | 4.53        | 44.87            | 49.40          | 87.26          | 37.86       | AV        | 150         | 280       | PASS       |
| 5932.7933       | 4.67        | 45.34            | 50.01          | 68.20          | 18.19       | AV        | 150         | 1         | PASS       |



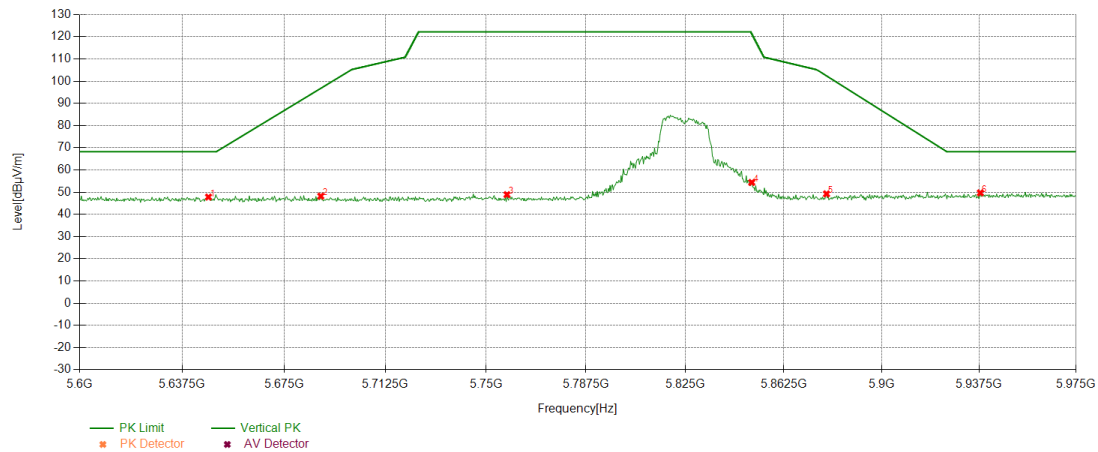
|                 |             |                  |                |                |             |           |             |           |            |
|-----------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20      |                |             |           |             |           |            |
| Test channel    |             |                  | Lowest channel |                |             |           |             |           |            |
| polarization    |             |                  | Vertical       |                |             |           |             |           |            |
| Suspected List  |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5620.162        | 3.29        | 44.77            | 48.06          | 68.20          | 20.14       | PK        | 150         | 0         | PASS       |
| 5672.0672       | 3.52        | 44.68            | 48.20          | 84.57          | 36.37       | PK        | 150         | 4         | PASS       |
| 5725.1725       | 3.77        | 56.19            | 59.96          | 122.20         | 62.24       | PK        | 150         | 276       | PASS       |
| 5841.2841       | 4.28        | 44.09            | 48.37          | 122.20         | 73.83       | AV        | 150         | 228       | PASS       |
| 5895.2895       | 4.51        | 44.30            | 48.81          | 90.15          | 41.34       | AV        | 150         | 288       | PASS       |
| 5945.9946       | 4.73        | 44.71            | 49.44          | 68.20          | 18.76       | AV        | 150         | 240       | PASS       |



|                 |             |                  |                 |                |             |           |             |           |            |
|-----------------|-------------|------------------|-----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20       |                |             |           |             |           |            |
| Test channel    |             |                  | Highest channel |                |             |           |             |           |            |
| polarization    |             |                  | Horizontal      |                |             |           |             |           |            |
| Suspected List  |             |                  |                 |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5654.9655       | 3.45        | 45.40            | 48.85           | 71.89          | 23.04       | PK        | 150         | 359       | PASS       |
| 5710.471        | 3.70        | 44.74            | 48.44           | 108.13         | 59.69       | PK        | 150         | 343       | PASS       |
| 5751.8752       | 3.89        | 48.94            | 52.83           | 122.20         | 69.37       | PK        | 150         | 271       | PASS       |
| 5850.285        | 4.32        | 48.00            | 52.32           | 121.55         | 69.23       | AV        | 150         | 307       | PASS       |
| 5881.7882       | 4.46        | 44.60            | 49.06           | 100.16         | 51.10       | AV        | 150         | 247       | PASS       |
| 5939.694        | 4.70        | 45.79            | 50.49           | 68.20          | 17.71       | AV        | 150         | 307       | PASS       |



|                 |             |                  |                 |                |             |              |             |           |               |
|-----------------|-------------|------------------|-----------------|----------------|-------------|--------------|-------------|-----------|---------------|
| Test mode       |             |                  | 802.11n20       |                |             |              |             |           |               |
| Test channel    |             |                  | Highest channel |                |             |              |             |           |               |
| polarization    |             |                  | Vertical        |                |             |              |             |           |               |
| Suspected List  |             |                  |                 |                |             |              |             |           |               |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete<br>ctor | Height [cm] | Angle deg | Pass/<br>Fail |
| 5647.1647       | 3.41        | 44.38            | 47.79           | 68.20          | 20.41       | PK           | 150         | 25        | PASS          |
| 5688.5689       | 3.60        | 44.60            | 48.20           | 96.77          | 48.57       | PK           | 150         | 132       | PASS          |
| 5757.8758       | 3.92        | 44.96            | 48.88           | 122.20         | 73.32       | PK           | 150         | 4         | PASS          |
| 5850.285        | 4.32        | 50.05            | 54.37           | 121.55         | 67.18       | AV           | 150         | 322       | PASS          |
| 5878.7879       | 4.44        | 44.78            | 49.22           | 102.39         | 53.17       | AV           | 150         | 49        | PASS          |
| 5937.8938       | 4.70        | 44.96            | 49.66           | 68.20          | 18.54       | AV           | 150         | 60        | PASS          |



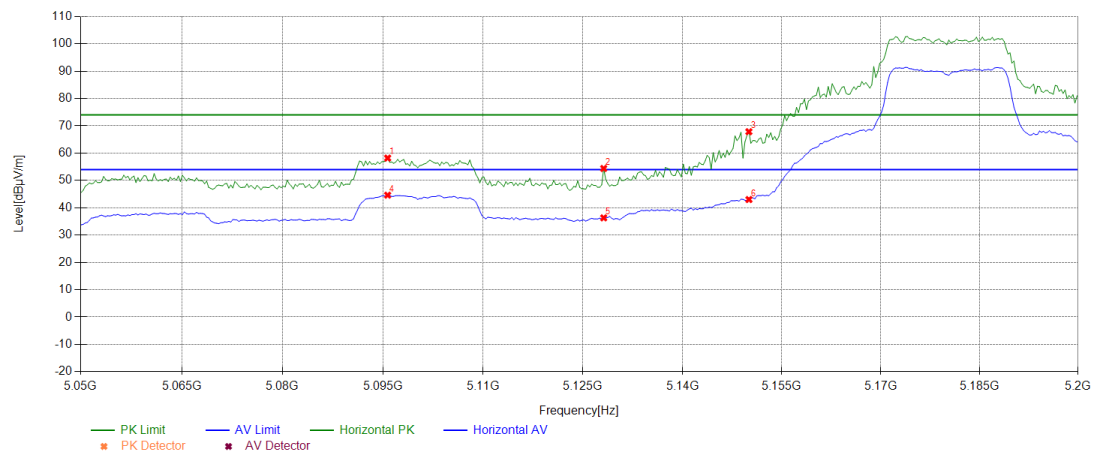
## Model: EMC3290-D

U-NII-1, U-NII-2A: 5150-5350MHz:

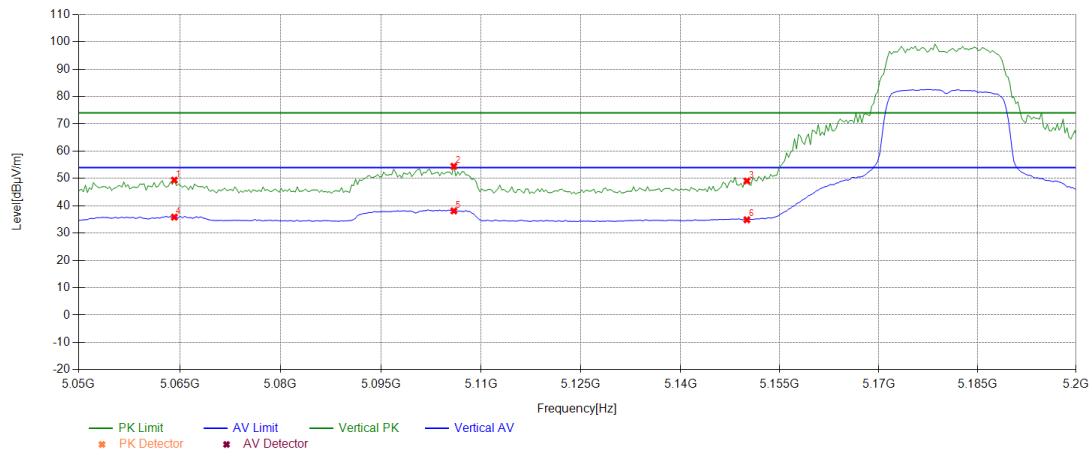
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

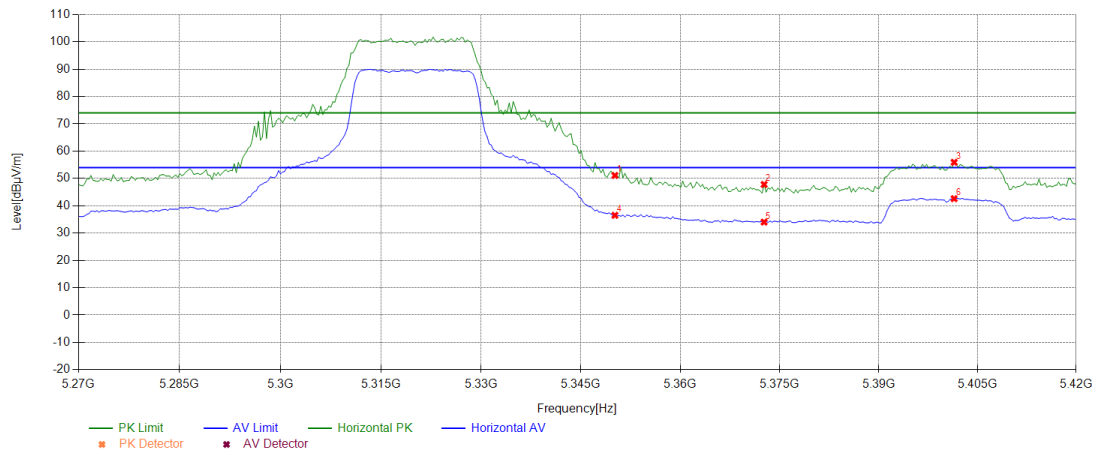
|                 |             |                  |                |                |             |              |             |           |               |
|-----------------|-------------|------------------|----------------|----------------|-------------|--------------|-------------|-----------|---------------|
| Test mode       |             |                  | 802.11n20      |                |             |              |             |           |               |
| Test channel    |             |                  | Lowest channel |                |             |              |             |           |               |
| polarization    |             |                  | Horizontal     |                |             |              |             |           |               |
| Suspected List  |             |                  |                |                |             |              |             |           |               |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete<br>ctor | Height [cm] | Angle deg | Pass/<br>Fail |
| 5095.7096       | 1.76        | 56.44            | 58.20          | 74.00          | 15.80       | PK           | 150         | 319       | PASS          |
| 5128.1128       | 1.86        | 52.54            | 54.40          | 74.00          | 19.60       | PK           | 150         | 359       | PASS          |
| 5150.015        | 1.93        | 65.92            | 67.85          | 74.00          | 6.15        | PK           | 150         | 359       | PASS          |
| 5095.7096       | 1.76        | 42.86            | 44.62          | 54.00          | 9.38        | AV           | 150         | 353       | PASS          |
| 5128.1128       | 1.86        | 34.45            | 36.31          | 54.00          | 17.69       | AV           | 150         | 353       | PASS          |
| 5150.015        | 1.93        | 41.10            | 43.03          | 54.00          | 10.97       | AV           | 150         | 353       | PASS          |



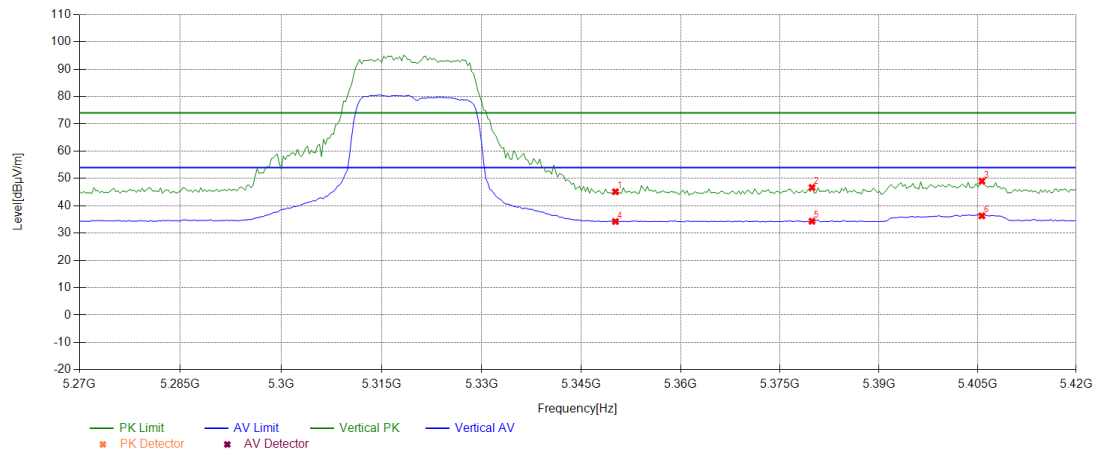
|                 |             |                  |                |                |             |           |             |           |            |
|-----------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20      |                |             |           |             |           |            |
| Test channel    |             |                  | Lowest channel |                |             |           |             |           |            |
| polarization    |             |                  | Vertical       |                |             |           |             |           |            |
| Suspected List  |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5064.2064       | 1.66        | 47.74            | 49.40          | 74.00          | 24.60       | PK        | 150         | 85        | PASS       |
| 5105.9106       | 1.79        | 52.67            | 54.46          | 74.00          | 19.54       | PK        | 150         | 73        | PASS       |
| 5150.015        | 1.93        | 47.13            | 49.06          | 74.00          | 24.94       | PK        | 150         | 73        | PASS       |
| 5064.2064       | 1.66        | 34.20            | 35.86          | 54.00          | 18.14       | AV        | 150         | 356       | PASS       |
| 5105.9106       | 1.79        | 36.34            | 38.13          | 54.00          | 15.87       | AV        | 150         | 26        | PASS       |
| 5150.015        | 1.93        | 32.94            | 34.87          | 54.00          | 19.13       | AV        | 150         | 13        | PASS       |



|                 |             |                  |                 |                |             |              |             |           |               |
|-----------------|-------------|------------------|-----------------|----------------|-------------|--------------|-------------|-----------|---------------|
| Test mode       |             |                  | 802.11n20       |                |             |              |             |           |               |
| Test channel    |             |                  | Highest channel |                |             |              |             |           |               |
| polarization    |             |                  | Horizontal      |                |             |              |             |           |               |
| Suspected List  |             |                  |                 |                |             |              |             |           |               |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete<br>ctor | Height [cm] | Angle deg | Pass/<br>Fail |
| 5350.135        | 2.40        | 48.70            | 51.10           | 74.00          | 22.90       | PK           | 150         | 331       | PASS          |
| 5372.6373       | 2.45        | 45.36            | 47.81           | 74.00          | 26.19       | PK           | 150         | 11        | PASS          |
| 5401.4401       | 2.51        | 53.42            | 55.93           | 74.00          | 18.07       | PK           | 150         | 331       | PASS          |
| 5350.135        | 2.40        | 34.13            | 36.53           | 54.00          | 17.47       | AV           | 150         | 2         | PASS          |
| 5372.6373       | 2.45        | 31.58            | 34.03           | 54.00          | 19.97       | AV           | 150         | 2         | PASS          |
| 5401.4401       | 2.51        | 40.09            | 42.60           | 54.00          | 11.40       | AV           | 150         | 2         | PASS          |



|                 |             |                  |                 |                |             |           |             |           |            |
|-----------------|-------------|------------------|-----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20       |                |             |           |             |           |            |
| Test channel    |             |                  | Highest channel |                |             |           |             |           |            |
| polarization    |             |                  | Vertical        |                |             |           |             |           |            |
| Suspected List  |             |                  |                 |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5350.135        | 2.40        | 42.75            | 45.15           | 74.00          | 28.85       | PK        | 150         | 272       | PASS       |
| 5379.838        | 2.46        | 44.23            | 46.69           | 74.00          | 27.31       | PK        | 150         | 10        | PASS       |
| 5405.6406       | 2.52        | 46.50            | 49.02           | 74.00          | 24.98       | PK        | 150         | 2         | PASS       |
| 5350.135        | 2.40        | 31.86            | 34.26           | 54.00          | 19.74       | AV        | 150         | 81        | PASS       |
| 5379.838        | 2.46        | 31.91            | 34.37           | 54.00          | 19.63       | AV        | 150         | 117       | PASS       |
| 5405.6406       | 2.52        | 33.81            | 36.33           | 54.00          | 17.67       | AV        | 150         | 2         | PASS       |

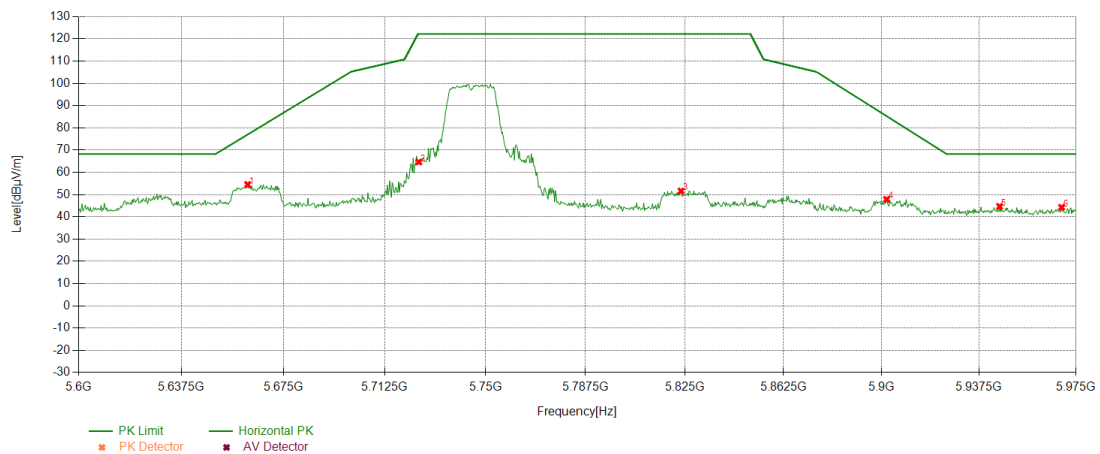


## U-NII-3 5725-5850MHz:

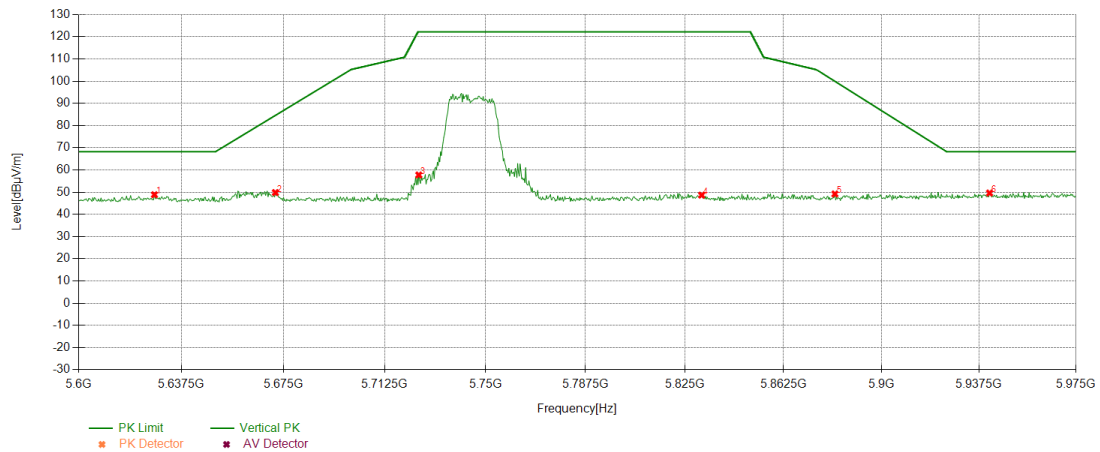
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

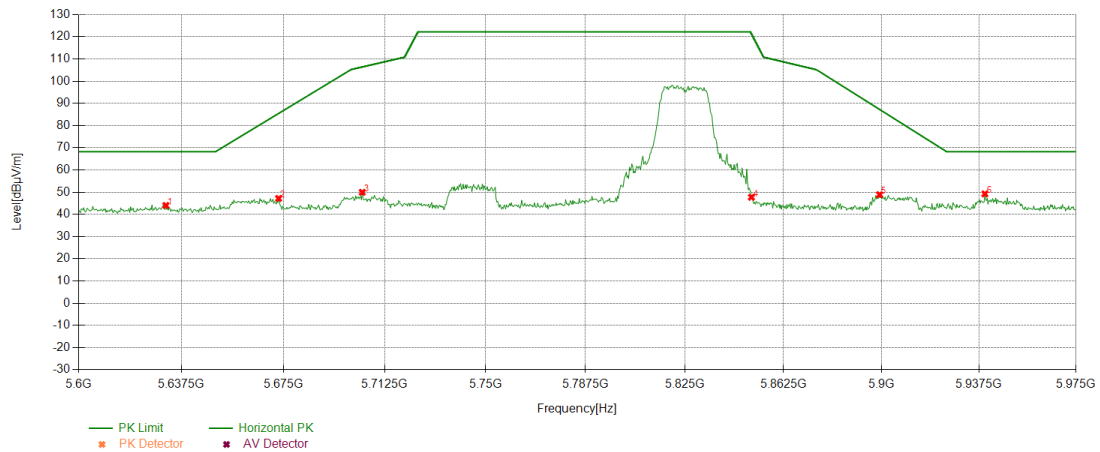
|                 |             |                  |                |                |             |              |             |           |               |
|-----------------|-------------|------------------|----------------|----------------|-------------|--------------|-------------|-----------|---------------|
| Test mode       |             |                  | 802.11n20      |                |             |              |             |           |               |
| Test channel    |             |                  | Lowest channel |                |             |              |             |           |               |
| polarization    |             |                  | Horizontal     |                |             |              |             |           |               |
| Suspected List  |             |                  |                |                |             |              |             |           |               |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete<br>ctor | Height [cm] | Angle deg | Pass/<br>Fail |
| 5661.8662       | 3.48        | 51.04            | 54.52          | 77.01          | 22.49       | PK           | 150         | 313       | PASS          |
| 5725.1725       | 3.77        | 60.90            | 64.67          | 122.20         | 57.53       | PK           | 150         | 349       | PASS          |
| 5823.5824       | 4.21        | 47.38            | 51.59          | 122.20         | 70.61       | PK           | 150         | 1         | PASS          |
| 5901.8902       | 4.54        | 43.30            | 47.84          | 85.26          | 37.42       | AV           | 150         | 290       | PASS          |
| 5945.3945       | 4.73        | 39.95            | 44.68          | 68.20          | 23.52       | AV           | 150         | 254       | PASS          |
| 5969.3969       | 4.83        | 39.45            | 44.28          | 68.20          | 23.92       | AV           | 150         | 1         | PASS          |



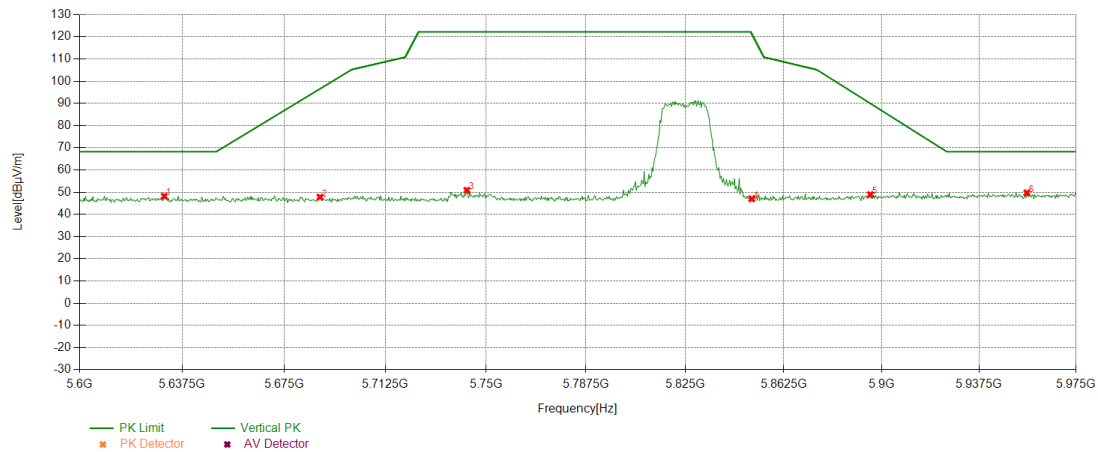
|                 |             |                  |                |                |             |           |             |           |            |
|-----------------|-------------|------------------|----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20      |                |             |           |             |           |            |
| Test channel    |             |                  | Lowest channel |                |             |           |             |           |            |
| polarization    |             |                  | Vertical       |                |             |           |             |           |            |
| Suspected List  |             |                  |                |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5627.6628       | 3.32        | 45.52            | 48.84          | 68.20          | 19.36       | PK        | 150         | 40        | PASS       |
| 5672.0672       | 3.52        | 46.28            | 49.80          | 84.57          | 34.77       | PK        | 150         | 27        | PASS       |
| 5725.1725       | 3.77        | 53.96            | 57.73          | 122.20         | 64.47       | PK        | 150         | 27        | PASS       |
| 5831.3831       | 4.24        | 44.41            | 48.65          | 122.20         | 73.55       | AV        | 150         | 218       | PASS       |
| 5882.0882       | 4.46        | 44.72            | 49.18          | 99.94          | 50.76       | AV        | 150         | 159       | PASS       |
| 5941.4941       | 4.71        | 44.90            | 49.61          | 68.20          | 18.59       | AV        | 150         | 357       | PASS       |



|                 |             |                  |                 |                |             |           |             |           |            |
|-----------------|-------------|------------------|-----------------|----------------|-------------|-----------|-------------|-----------|------------|
| Test mode       |             |                  | 802.11n20       |                |             |           |             |           |            |
| Test channel    |             |                  | Highest channel |                |             |           |             |           |            |
| polarization    |             |                  | Horizontal      |                |             |           |             |           |            |
| Suspected List  |             |                  |                 |                |             |           |             |           |            |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete ctor | Height [cm] | Angle deg | Pass/ Fail |
| 5631.8632       | 3.34        | 40.66            | 44.00           | 68.20          | 24.20       | PK        | 150         | 325       | PASS       |
| 5673.2673       | 3.53        | 43.63            | 47.16           | 85.46          | 38.30       | PK        | 150         | 314       | PASS       |
| 5704.1704       | 3.67        | 46.26            | 49.93           | 106.37         | 56.44       | PK        | 150         | 325       | PASS       |
| 5850.285        | 4.32        | 43.38            | 47.70           | 121.55         | 73.85       | AV        | 150         | 301       | PASS       |
| 5899.1899       | 4.53        | 44.33            | 48.86           | 87.26          | 38.40       | AV        | 150         | 266       | PASS       |
| 5939.694        | 4.70        | 44.52            | 49.22           | 68.20          | 18.98       | AV        | 150         | 1         | PASS       |



|                 |             |                  |                 |                |             |              |             |           |               |
|-----------------|-------------|------------------|-----------------|----------------|-------------|--------------|-------------|-----------|---------------|
| Test mode       |             |                  | 802.11n20       |                |             |              |             |           |               |
| Test channel    |             |                  | Highest channel |                |             |              |             |           |               |
| polarization    |             |                  | Vertical        |                |             |              |             |           |               |
| Suspected List  |             |                  |                 |                |             |              |             |           |               |
| Frequency [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m]  | Limit [dBμV/m] | Margin [dB] | Dete<br>ctor | Height [cm] | Angle deg | Pass/<br>Fail |
| 5630.9631       | 3.34        | 44.82            | 48.16           | 68.20          | 20.04       | PK           | 150         | 332       | PASS          |
| 5688.2688       | 3.60        | 44.17            | 47.77           | 96.55          | 48.78       | PK           | 150         | 272       | PASS          |
| 5742.8743       | 3.85        | 47.01            | 50.86           | 122.20         | 71.34       | PK           | 150         | 284       | PASS          |
| 5850.285        | 4.32        | 42.69            | 47.01           | 121.55         | 74.54       | AV           | 150         | 308       | PASS          |
| 5895.5896       | 4.52        | 44.41            | 48.93           | 89.93          | 41.00       | AV           | 150         | 2         | PASS          |
| 5955.8956       | 4.77        | 44.93            | 49.70           | 68.20          | 18.50       | AV           | 150         | 177       | PASS          |



### 5.3 Maximum conducted output power

Ambient condition:

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.3kPa |

#### Method of Measurement:

During the process of the testing, The EUT was connected to spectrum analyzer through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

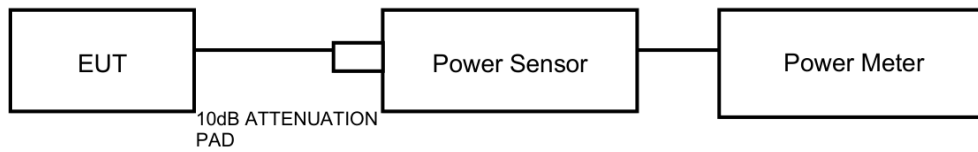
#### Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## Test Setup:



## Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.44$  dB.

## Test Results:

| TestMode  | Antenna | Channel | Output Power[dBm] | Limit[dBm]   | Verdict |
|-----------|---------|---------|-------------------|--------------|---------|
| 11A       | Ant1    | 5180    | 14.06             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5220    | 12.86             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5240    | 14.29             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5260    | 15.31             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5300    | 13.65             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5320    | 12.72             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5745    | 9.74              | $\leq 30.00$ | PASS    |
|           | Ant1    | 5785    | 9.15              | $\leq 30.00$ | PASS    |
| 11N20SISO | Ant1    | 5825    | 10.29             | $\leq 30.00$ | PASS    |
|           | Ant1    | 5180    | 11.29             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5220    | 11.74             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5240    | 12.01             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5260    | 13.52             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5300    | 11.96             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5320    | 11.09             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5745    | 8.53              | $\leq 30.00$ | PASS    |
| 11N40SISO | Ant1    | 5785    | 7.78              | $\leq 30.00$ | PASS    |
|           | Ant1    | 5825    | 8.60              | $\leq 30.00$ | PASS    |
|           | Ant1    | 5190    | 12.70             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5230    | 12.49             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5270    | 14.42             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5310    | 13.13             | $\leq 23.98$ | PASS    |
|           | Ant1    | 5755    | 12.94             | $\leq 30.00$ | PASS    |
|           | Ant1    | 5795    | 11.65             | $\leq 30.00$ | PASS    |

## 5.4 Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth

Ambient condition:

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.3kPa |

### Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

For U-NII-1, set RBW  $\approx 1\%$  OCB kHz, VBW  $\geq 3 \times$  RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW  $\geq 3 \times$  RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

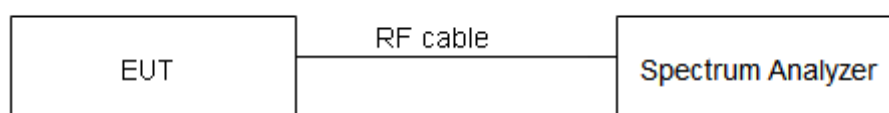
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument.

### Limits:

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### Test Setup:



### Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 936$  Hz.

## Test Results: Min emission bandwidth

| TestMode  | Antenna | Channel | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|---------------|---------|---------|------------|---------|
| 11A       | Ant1    | 5745    | 16.32         | 5736.80 | 5753.12 | ≥0.5       | PASS    |
|           |         | 5785    | 16.32         | 5776.80 | 5793.12 | ≥0.5       | PASS    |
|           |         | 5825    | 16.32         | 5816.80 | 5833.12 | ≥0.5       | PASS    |
| 11N20SISO | Ant1    | 5745    | 17.04         | 5736.44 | 5753.48 | ≥0.5       | PASS    |
|           |         | 5785    | 17.08         | 5776.44 | 5793.52 | ≥0.5       | PASS    |
|           |         | 5825    | 17.08         | 5816.44 | 5833.52 | ≥0.5       | PASS    |
| 11N40SISO | Ant1    | 5755    | 35.12         | 5737.40 | 5772.52 | ≥0.5       | PASS    |
|           |         | 5795    | 35.12         | 5777.40 | 5812.52 | ≥0.5       | PASS    |

## Test Results: Emission Bandwidth

| TestMode  | Antenna | Channel | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|----------------|---------|---------|------------|---------|
| 11A       | Ant1    | 5180    | 21.12          | 5169.32 | 5190.44 | ---        | ---     |
|           | Ant1    | 5220    | 21.00          | 5209.56 | 5230.56 | ---        | ---     |
|           | Ant1    | 5240    | 21.12          | 5229.32 | 5250.44 | ---        | ---     |
|           | Ant1    | 5260    | 21.80          | 5248.80 | 5270.60 | ---        | ---     |
|           | Ant1    | 5300    | 21.20          | 5289.20 | 5310.40 | ---        | ---     |
|           | Ant1    | 5320    | 20.96          | 5309.24 | 5330.20 | ---        | ---     |
|           | Ant1    | 5745    | 30.80          | 5728.96 | 5759.76 | ---        | ---     |
|           | Ant1    | 5785    | 27.04          | 5771.44 | 5798.48 | ---        | ---     |
| 11N20SISO | Ant1    | 5825    | 27.28          | 5812.16 | 5839.44 | ---        | ---     |
|           | Ant1    | 5180    | 21.48          | 5169.24 | 5190.72 | ---        | ---     |
|           | Ant1    | 5220    | 21.56          | 5209.24 | 5230.80 | ---        | ---     |
|           | Ant1    | 5240    | 21.76          | 5229.20 | 5250.96 | ---        | ---     |
|           | Ant1    | 5260    | 21.88          | 5249.08 | 5270.96 | ---        | ---     |
|           | Ant1    | 5300    | 21.52          | 5289.04 | 5310.56 | ---        | ---     |
|           | Ant1    | 5320    | 21.80          | 5309.12 | 5330.92 | ---        | ---     |
|           | Ant1    | 5745    | 28.32          | 5729.80 | 5758.12 | ---        | ---     |
| 11N40SISO | Ant1    | 5785    | 23.40          | 5772.84 | 5796.24 | ---        | ---     |
|           | Ant1    | 5825    | 22.16          | 5813.84 | 5836.00 | ---        | ---     |
|           | Ant1    | 5190    | 39.04          | 5170.48 | 5209.52 | ---        | ---     |
|           | Ant1    | 5230    | 40.24          | 5209.76 | 5250.00 | ---        | ---     |
|           | Ant1    | 5270    | 39.04          | 5250.24 | 5289.28 | ---        | ---     |
|           | Ant1    | 5310    | 49.28          | 5280.40 | 5329.68 | ---        | ---     |
|           | Ant1    | 5755    | 60.56          | 5726.44 | 5787.00 | ---        | ---     |
|           | Ant1    | 5795    | 40.48          | 5774.84 | 5815.32 | ---        | ---     |

## Test Results: Occupied channel bandwidth

| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| 11A       | Ant1    | 5180    | 17.383    | 5171.249 | 5188.631 | ---        | ---     |
|           | Ant1    | 5220    | 17.343    | 5211.329 | 5228.671 | ---        | ---     |
|           | Ant1    | 5240    | 17.343    | 5231.329 | 5248.671 | ---        | ---     |
|           | Ant1    | 5260    | 17.343    | 5251.289 | 5268.631 | ---        | ---     |
|           | Ant1    | 5300    | 17.263    | 5291.289 | 5308.551 | ---        | ---     |
|           | Ant1    | 5320    | 17.423    | 5311.169 | 5328.591 | ---        | ---     |
|           | Ant1    | 5745    | 17.902    | 5735.849 | 5753.751 | ---        | ---     |
|           | Ant1    | 5785    | 17.622    | 5776.169 | 5793.791 | ---        | ---     |
| 11N20SISO | Ant1    | 5825    | 17.622    | 5816.169 | 5833.791 | ---        | ---     |
|           | Ant1    | 5180    | 18.262    | 5170.849 | 5189.111 | ---        | ---     |
|           | Ant1    | 5220    | 18.182    | 5210.929 | 5229.111 | ---        | ---     |
|           | Ant1    | 5240    | 18.222    | 5230.889 | 5249.111 | ---        | ---     |
|           | Ant1    | 5260    | 18.302    | 5250.809 | 5269.111 | ---        | ---     |
|           | Ant1    | 5300    | 18.182    | 5290.809 | 5308.991 | ---        | ---     |
|           | Ant1    | 5320    | 18.262    | 5310.849 | 5329.111 | ---        | ---     |
|           | Ant1    | 5745    | 18.621    | 5735.649 | 5754.271 | ---        | ---     |
| 11N40SISO | Ant1    | 5785    | 18.541    | 5775.729 | 5794.271 | ---        | ---     |
|           | Ant1    | 5825    | 18.501    | 5815.769 | 5834.271 | ---        | ---     |
|           | Ant1    | 5190    | 35.884    | 5172.018 | 5207.902 | ---        | ---     |
|           | Ant1    | 5230    | 35.884    | 5212.098 | 5247.982 | ---        | ---     |
|           | Ant1    | 5270    | 35.884    | 5251.938 | 5287.822 | ---        | ---     |
|           | Ant1    | 5310    | 36.044    | 5291.858 | 5327.902 | ---        | ---     |
|           | Ant1    | 5755    | 36.124    | 5736.938 | 5773.062 | ---        | ---     |
|           | Ant1    | 5795    | 36.044    | 5776.938 | 5812.982 | ---        | ---     |

## 5.5 Maximum Power Spectral Density

Ambient condition:

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.3kPa |

### Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 500 kHz, VBW = 1.5MHz for the band 5.725-5.85 GHz

Set RBW = 1 MHz, VBW = 3MHz for the band 5.150-5.250 GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

### Limits:

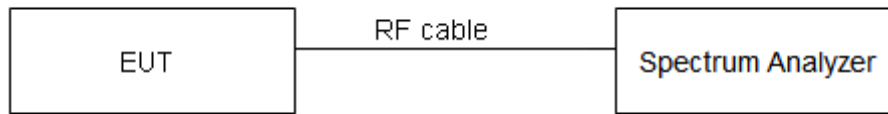
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

| Frequency Bands/MHz              | Limits       |
|----------------------------------|--------------|
| 5150-5250                        | 11dBm/MHz    |
| 5.25-5.35 GHz and 5.47-5.725 GHz | 11dBm/MHz    |
| 5725-5850                        | 30dBm/500kHz |

## Test Setup:



## Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.75\text{dB}$ .

## Test Results:

| TestMode  | Antenna | Channel | Result[dBm/MHz] | Limit[dBm/MHz] | Verdict |
|-----------|---------|---------|-----------------|----------------|---------|
| 11A       | Ant1    | 5180    | 2.54            | $\leq 11$      | PASS    |
|           |         | 5220    | 1.39            | $\leq 11$      | PASS    |
|           |         | 5240    | 2.92            | $\leq 11$      | PASS    |
|           |         | 5260    | 3.83            | $\leq 11$      | PASS    |
|           |         | 5300    | 2.26            | $\leq 11$      | PASS    |
|           |         | 5320    | 1.29            | $\leq 11$      | PASS    |
| 11N20SISO | Ant1    | 5180    | -0.31           | $\leq 11$      | PASS    |
|           |         | 5220    | 0.14            | $\leq 11$      | PASS    |
|           |         | 5240    | 0.45            | $\leq 11$      | PASS    |
|           |         | 5260    | 1.87            | $\leq 11$      | PASS    |
|           |         | 5300    | 0.31            | $\leq 11$      | PASS    |
|           |         | 5320    | -0.59           | $\leq 11$      | PASS    |
| 11N40SISO | Ant1    | 5190    | -1.73           | $\leq 11$      | PASS    |
|           |         | 5230    | -1.89           | $\leq 11$      | PASS    |
|           |         | 5270    | 0.1             | $\leq 11$      | PASS    |
|           |         | 5310    | -1.39           | $\leq 11$      | PASS    |

| TestMode  | Antenna | Channel | Result[dBm/500KHz] | Limit[dBm/500KHz] | Verdict |
|-----------|---------|---------|--------------------|-------------------|---------|
| 11A       | Ant1    | 5745    | -4.66              | $\leq 30$         | PASS    |
|           |         | 5785    | -5.33              | $\leq 30$         | PASS    |
|           |         | 5825    | -4.15              | $\leq 30$         | PASS    |
| 11N20SISO | Ant1    | 5745    | -5.97              | $\leq 30$         | PASS    |
|           |         | 5785    | -6.89              | $\leq 30$         | PASS    |
|           |         | 5825    | -6.05              | $\leq 30$         | PASS    |
| 11N40SISO | Ant1    | 5755    | -4.31              | $\leq 30$         | PASS    |
|           |         | 5795    | -5.47              | $\leq 30$         | PASS    |

## 5.6 Frequency Stability

Ambient condition:

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.3kPa |

### Method of Measurement:

#### 1. Frequency stability with respect to ambient temperature

- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
  - b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
  - c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
  - d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
  - e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
  - f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
  - g) Measure the frequency at each of frequencies specified in 5.6.
  - h) Switch OFF the EUT but do not switch OFF the oscillator heater.
  - i) Lower the chamber temperature by not more than 10 °C, and allow the temperature inside the chamber to stabilize.
  - j) Repeat step f) through step i) down to the lowest specified temperature.
- #### 2. Frequency stability when varying supply voltage

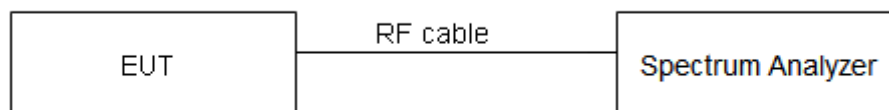
Unless otherwise specified, these tests shall be made at ambient room temperature (+15 °C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.
- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

### Limits:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### Test Setup:



### Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 936$  Hz.

## Test Results:

| TestMode      | Antenna | Channel | Voltage       |                  |                |                 |             |         |
|---------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
|               |         |         | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A           | Ant1    | 5180    | NV            | NT               | -60000.00      | -11.583012      | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.722008       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.722008       | ---         | ---     |
|               | Ant1    | 5220    | NV            | NT               | -40000.00      | -7.662835       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.662835       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.662835       | ---         | ---     |
|               | Ant1    | 5240    | NV            | NT               | -40000.00      | -7.633588       | ---         | ---     |
|               |         |         | LV            | NT               | -20000.00      | -3.816794       | ---         | ---     |
|               |         |         | HV            | NT               | -20000.00      | -3.816794       | ---         | ---     |
|               | Ant1    | 5260    | NV            | NT               | -20000.00      | -3.802281       | ---         | ---     |
|               |         |         | LV            | NT               | -20000.00      | -3.802281       | ---         | ---     |
|               |         |         | HV            | NT               | -20000.00      | -3.802281       | ---         | ---     |
|               | Ant1    | 5300    | NV            | NT               | -40000.00      | -7.547170       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.547170       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.547170       | ---         | ---     |
|               | Ant1    | 5320    | NV            | NT               | -40000.00      | -7.518797       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.518797       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.518797       | ---         | ---     |
|               | Ant1    | 5745    | NV            | NT               | -20000.00      | -3.481288       | ---         | ---     |
|               |         |         | LV            | NT               | -20000.00      | -3.481288       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -6.962576       | ---         | ---     |
|               | Ant1    | 5785    | NV            | NT               | -40000.00      | -6.914434       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -6.914434       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -6.914434       | ---         | ---     |
|               | Ant1    | 5825    | NV            | NT               | -40000.00      | -6.866953       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -6.866953       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -6.866953       | ---         | ---     |
| 11N20SIS<br>O | Ant1    | 5180    | NV            | NT               | -20000.00      | -3.861004       | ---         | ---     |
|               |         |         | LV            | NT               | -20000.00      | -3.861004       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.722008       | ---         | ---     |
|               | Ant1    | 5220    | NV            | NT               | -40000.00      | -7.662835       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.662835       | ---         | ---     |
|               |         |         | HV            | NT               | -20000.00      | -3.831418       | ---         | ---     |
|               | Ant1    | 5240    | NV            | NT               | -40000.00      | -7.633588       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.633588       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.633588       | ---         | ---     |
|               | Ant1    | 5260    | NV            | NT               | -40000.00      | -7.604563       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.604563       | ---         | ---     |
|               |         |         | HV            | NT               | -20000.00      | -3.802281       | ---         | ---     |
|               | Ant1    | 5300    | NV            | NT               | -20000.00      | -3.773585       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.547170       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -7.547170       | ---         | ---     |
|               | Ant1    | 5320    | NV            | NT               | -20000.00      | -3.759398       | ---         | ---     |
|               |         |         | LV            | NT               | -20000.00      | -3.759398       | ---         | ---     |
|               |         |         | HV            | NT               | -20000.00      | -3.759398       | ---         | ---     |
|               | Ant1    | 5745    | NV            | NT               | -40000.00      | -6.962576       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -6.962576       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -6.962576       | ---         | ---     |
|               | Ant1    | 5785    | NV            | NT               | -40000.00      | -6.914434       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -6.914434       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -6.914434       | ---         | ---     |
|               | Ant1    | 5825    | NV            | NT               | -40000.00      | -6.866953       | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -6.866953       | ---         | ---     |
|               |         |         | HV            | NT               | -40000.00      | -6.866953       | ---         | ---     |
| 11N40SIS<br>O | Ant1    | 5190    | NV            | NT               | 0.00           | 0.000000        | ---         | ---     |
|               |         |         | LV            | NT               | -40000.00      | -7.707129       | ---         | ---     |
|               |         |         | HV            | NT               | 0.00           | 0.000000        | ---         | ---     |
|               | Ant1    | 5230    | NV            | NT               | -40000.00      | -7.648184       | ---         | ---     |

|  |      |      |    |    |           |            |     |     |
|--|------|------|----|----|-----------|------------|-----|-----|
|  | Ant1 | 5270 | LV | NT | 0.00      | 0.000000   | --- | --- |
|  |      |      | HV | NT | -40000.00 | -7.648184  | --- | --- |
|  |      |      | NV | NT | -40000.00 | -7.590133  | --- | --- |
|  |      |      | LV | NT | -40000.00 | -7.590133  | --- | --- |
|  |      |      | HV | NT | -80000.00 | -15.180266 | --- | --- |
|  | Ant1 | 5310 | NV | NT | -80000.00 | -15.065913 | --- | --- |
|  |      |      | LV | NT | -40000.00 | -7.532957  | --- | --- |
|  |      |      | HV | NT | -80000.00 | -15.065913 | --- | --- |
|  | Ant1 | 5755 | NV | NT | -40000.00 | -6.950478  | --- | --- |
|  |      |      | LV | NT | -40000.00 | -6.950478  | --- | --- |
|  |      |      | HV | NT | -40000.00 | -6.950478  | --- | --- |
|  | Ant1 | 5795 | NV | NT | -80000.00 | -13.805004 | --- | --- |
|  |      |      | LV | NT | -40000.00 | -6.902502  | --- | --- |
|  |      |      | HV | NT | -80000.00 | -13.805004 | --- | --- |

| Temperature |         |         |               |                  |                |                 |             |         |
|-------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode    | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A         | Ant1    | 5180    | NV            | -30              | -20000.00      | -3.861004       | ---         | ---     |
|             |         |         | NV            | -20              | -40000.00      | -7.722008       | ---         | ---     |
|             |         |         | NV            | -10              | -20000.00      | -3.861004       | ---         | ---     |
|             |         |         | NV            | 0                | -40000.00      | -7.722008       | ---         | ---     |
|             |         |         | NV            | 10               | -20000.00      | -3.861004       | ---         | ---     |
|             |         |         | NV            | 20               | -40000.00      | -7.722008       | ---         | ---     |
|             |         |         | NV            | 30               | -40000.00      | -7.722008       | ---         | ---     |
|             |         |         | NV            | 40               | -20000.00      | -3.861004       | ---         | ---     |
|             | Ant1    | 5220    | NV            | 50               | -40000.00      | -7.722008       | ---         | ---     |
|             |         |         | NV            | -30              | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | -20              | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | -10              | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | 0                | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | 10               | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | 20               | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | 30               | -40000.00      | -7.662835       | ---         | ---     |
|             | Ant1    | 5240    | NV            | 40               | -20000.00      | -3.831418       | ---         | ---     |
|             |         |         | NV            | 50               | -40000.00      | -7.662835       | ---         | ---     |
|             |         |         | NV            | -30              | -20000.00      | -3.816794       | ---         | ---     |
|             |         |         | NV            | -20              | -20000.00      | -3.816794       | ---         | ---     |
|             |         |         | NV            | -10              | -20000.00      | -3.816794       | ---         | ---     |
|             |         |         | NV            | 0                | -40000.00      | -7.633588       | ---         | ---     |
|             |         |         | NV            | 10               | -20000.00      | -3.816794       | ---         | ---     |
|             |         |         | NV            | 20               | 0.00           | 0.000000        | ---         | ---     |
|             | Ant1    | 5260    | NV            | 30               | -40000.00      | -7.633588       | ---         | ---     |
|             |         |         | NV            | 40               | -40000.00      | -7.633588       | ---         | ---     |
|             |         |         | NV            | 50               | -20000.00      | -3.816794       | ---         | ---     |
|             |         |         | NV            | -30              | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | -20              | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | -10              | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | 0                | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | 10               | -20000.00      | -3.802281       | ---         | ---     |
|             | Ant1    | 5300    | NV            | 20               | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | 30               | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | 40               | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | 50               | -20000.00      | -3.802281       | ---         | ---     |
|             |         |         | NV            | -30              | -40000.00      | -7.547170       | ---         | ---     |
|             |         |         | NV            | -20              | -40000.00      | -7.547170       | ---         | ---     |
|             |         |         | NV            | -10              | -40000.00      | -7.547170       | ---         | ---     |
|             |         |         | NV            | 0                | -40000.00      | -7.547170       | ---         | ---     |
|             | Ant1    | 5300    | NV            | 10               | -40000.00      | -7.547170       | ---         | ---     |
|             |         |         | NV            | 20               | -40000.00      | -7.547170       | ---         | ---     |
|             |         |         | NV            | 30               | -40000.00      | -7.547170       | ---         | ---     |
|             |         |         | NV            | 40               | -40000.00      | -7.547170       | ---         | ---     |

|               |      |      |    |     |           |           |     |     |
|---------------|------|------|----|-----|-----------|-----------|-----|-----|
|               | Ant1 | 5320 | NV | 50  | -40000.00 | -7.547170 | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | 20  | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -7.518797 | --- | --- |
|               | Ant1 | 5745 | NV | 50  | -40000.00 | -7.518797 | --- | --- |
|               |      |      | NV | -30 | -20000.00 | -3.481288 | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -6.962576 | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -6.962576 | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -6.962576 | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -6.962576 | --- | --- |
|               |      |      | NV | 20  | -20000.00 | -3.481288 | --- | --- |
|               |      |      | NV | 30  | -20000.00 | -3.481288 | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -6.962576 | --- | --- |
|               | Ant1 | 5785 | NV | 50  | -20000.00 | -3.481288 | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | 20  | -20000.00 | -3.457217 | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -6.914434 | --- | --- |
|               | Ant1 | 5825 | NV | 50  | -40000.00 | -6.914434 | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | 20  | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -6.866953 | --- | --- |
| 11N20SI<br>SO | Ant1 | 5180 | NV | 50  | -40000.00 | -6.866953 | --- | --- |
|               |      |      | NV | -30 | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -7.722008 | --- | --- |
|               |      |      | NV | -10 | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | 0   | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | 10  | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | 20  | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | 30  | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | 40  | -20000.00 | -3.861004 | --- | --- |
|               | Ant1 | 5220 | NV | 50  | -20000.00 | -3.861004 | --- | --- |
|               |      |      | NV | -30 | -20000.00 | -3.831418 | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -7.662835 | --- | --- |
|               |      |      | NV | -10 | -20000.00 | -3.831418 | --- | --- |
|               |      |      | NV | 0   | -20000.00 | -3.831418 | --- | --- |
|               |      |      | NV | 10  | -20000.00 | -3.831418 | --- | --- |
|               |      |      | NV | 20  | -20000.00 | -3.831418 | --- | --- |
|               |      |      | NV | 30  | -20000.00 | -3.831418 | --- | --- |
|               |      |      | NV | 40  | -20000.00 | -3.831418 | --- | --- |
|               | Ant1 | 5240 | NV | 50  | -40000.00 | -7.662835 | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | -20 | -20000.00 | -3.816794 | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | 20  | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -7.633588 | --- | --- |
|               |      |      | NV | 50  | -40000.00 | -7.633588 | --- | --- |

|               |      |      |    |     |           |            |     |     |
|---------------|------|------|----|-----|-----------|------------|-----|-----|
|               | Ant1 | 5260 | NV | -30 | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | 20  | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -7.604563  | --- | --- |
|               | Ant1 | 5300 | NV | 50  | -40000.00 | -7.604563  | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -7.547170  | --- | --- |
|               |      |      | NV | -20 | -20000.00 | -3.773585  | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -7.547170  | --- | --- |
|               |      |      | NV | 0   | -20000.00 | -3.773585  | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -7.547170  | --- | --- |
|               |      |      | NV | 20  | -20000.00 | -3.773585  | --- | --- |
|               |      |      | NV | 30  | -20000.00 | -3.773585  | --- | --- |
|               | Ant1 | 5320 | NV | 40  | -40000.00 | -7.547170  | --- | --- |
|               |      |      | NV | 50  | -40000.00 | -7.547170  | --- | --- |
|               |      |      | NV | -30 | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | -20 | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | -10 | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | 0   | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | 10  | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | 20  | -20000.00 | -3.759398  | --- | --- |
|               | Ant1 | 5745 | NV | 30  | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | 40  | -20000.00 | -3.759398  | --- | --- |
|               |      |      | NV | 50  | -40000.00 | -7.518797  | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -6.962576  | --- | --- |
|               | Ant1 | 5785 | NV | 20  | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | 50  | -40000.00 | -6.962576  | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -6.914434  | --- | --- |
|               | Ant1 | 5825 | NV | 10  | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | 20  | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | 50  | -40000.00 | -6.914434  | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -6.866953  | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -6.866953  | --- | --- |
|               |      |      | NV | -10 | -40000.00 | -6.866953  | --- | --- |
| 11N40SI<br>SO | Ant1 | 5190 | NV | 0   | -40000.00 | -6.866953  | --- | --- |
|               |      |      | NV | 10  | -60000.00 | -10.300429 | --- | --- |
|               |      |      | NV | 20  | -60000.00 | -10.300429 | --- | --- |
|               |      |      | NV | 30  | -40000.00 | -6.866953  | --- | --- |
|               |      |      | NV | 40  | -40000.00 | -6.866953  | --- | --- |
|               |      |      | NV | 50  | -40000.00 | -6.866953  | --- | --- |
|               |      |      | NV | -30 | 0.00      | 0.000000   | --- | --- |
|               |      |      | NV | -20 | -40000.00 | -7.707129  | --- | --- |
|               | Ant1 | 5230 | NV | -10 | 0.00      | 0.000000   | --- | --- |
|               |      |      | NV | 0   | -40000.00 | -7.707129  | --- | --- |
|               |      |      | NV | 10  | -40000.00 | -7.707129  | --- | --- |
|               |      |      | NV | 20  | -40000.00 | -7.707129  | --- | --- |
|               | Ant1 | 5190 | NV | 30  | 0.00      | 0.000000   | --- | --- |
|               |      |      | NV | 40  | 0.00      | 0.000000   | --- | --- |
|               |      |      | NV | 50  | 0.00      | 0.000000   | --- | --- |
|               |      |      | NV | -30 | -40000.00 | -7.648184  | --- | --- |

|  |      |      |    |     |           |            |     |     |
|--|------|------|----|-----|-----------|------------|-----|-----|
|  |      |      | NV | -20 | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | -10 | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | 0   | -40000.00 | -7.648184  | --- | --- |
|  |      |      | NV | 10  | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | 20  | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | 30  | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | 40  | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | 50  | 0.00      | 0.000000   | --- | --- |
|  | Ant1 | 5270 | NV | -30 | -80000.00 | -15.180266 | --- | --- |
|  |      |      | NV | -20 | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | -10 | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | 0   | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | 10  | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | 20  | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | 30  | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | 40  | -40000.00 | -7.590133  | --- | --- |
|  |      |      | NV | 50  | -80000.00 | -15.180266 | --- | --- |
|  | Ant1 | 5310 | NV | -30 | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | -20 | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | -10 | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | 0   | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | 10  | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | 20  | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | 30  | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | 40  | -40000.00 | -7.532957  | --- | --- |
|  |      |      | NV | 50  | -40000.00 | -7.532957  | --- | --- |
|  | Ant1 | 5755 | NV | -30 | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | -20 | 0.00      | 0.000000   | --- | --- |
|  |      |      | NV | -10 | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | 0   | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | 10  | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | 20  | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | 30  | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | 40  | -40000.00 | -6.950478  | --- | --- |
|  |      |      | NV | 50  | -40000.00 | -6.950478  | --- | --- |
|  | Ant1 | 5795 | NV | -30 | -40000.00 | -6.902502  | --- | --- |
|  |      |      | NV | -20 | -40000.00 | -6.902502  | --- | --- |
|  |      |      | NV | -10 | -80000.00 | -13.805004 | --- | --- |
|  |      |      | NV | 0   | -40000.00 | -6.902502  | --- | --- |
|  |      |      | NV | 10  | -80000.00 | -13.805004 | --- | --- |
|  |      |      | NV | 20  | -80000.00 | -13.805004 | --- | --- |
|  |      |      | NV | 30  | -40000.00 | -6.902502  | --- | --- |
|  |      |      | NV | 40  | -40000.00 | -6.902502  | --- | --- |
|  |      |      | NV | 50  | -80000.00 | -13.805004 | --- | --- |

## 5.7 Dynamic Frequency Selection (DFS)

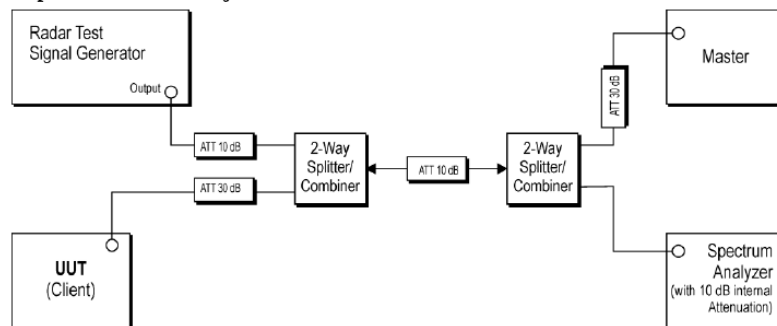
Ambient condition:

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.3kPa |

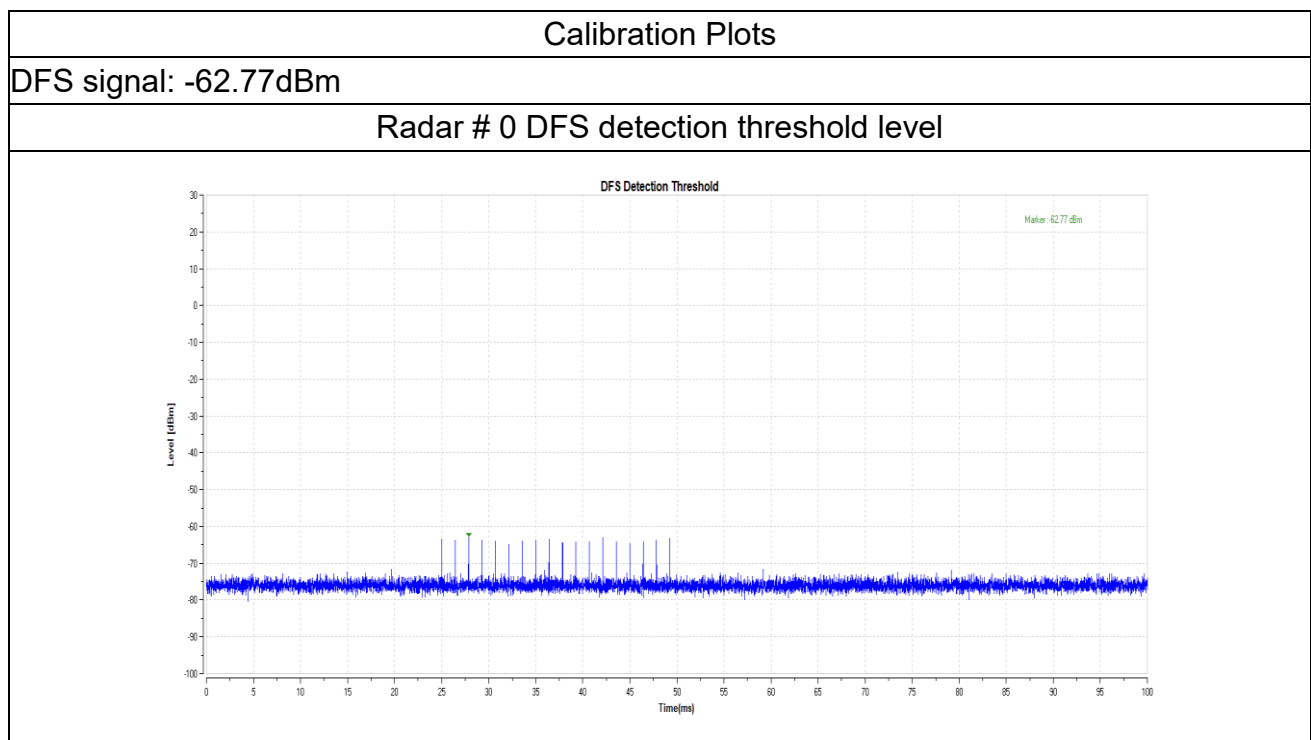
### 5.7.1 DFS detection threshold level

Test Setup:

Setup for Client with injection at the Master



Test Results:



## 5.7.2 UNII Detection Bandwidth

### Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL. UNII Detection Bandwidth = FH -FL

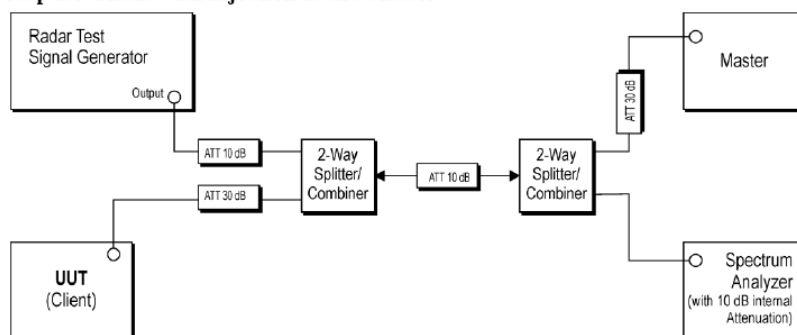
### Limits:

| Channel Bandwidth (MHz) | 99% Power Bandwidth (MHz) | UNII Detection Bandwidth (MHz) |
|-------------------------|---------------------------|--------------------------------|
| 20                      | N/A                       | N/A                            |
| 40                      | N/A                       | N/A                            |
| 80                      | N/A                       | N/A                            |

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

### Test Setup:

Setup for Client with injection at the Master



### Test Results:

Not required

### 5.7.3 Channel Availability Check (CAC)

#### Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

Refer as FCC 06-96 Appendix, clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.

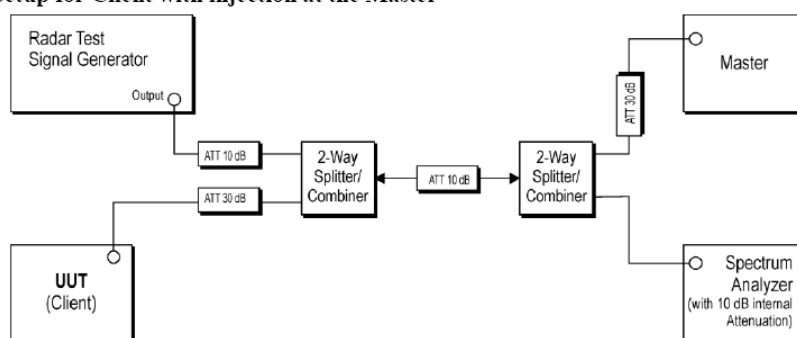
Refer as FCC 06-96 Appendix, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

#### Limits:

| Channel Availability Check Limit    |                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency. |

#### Test Setup:

Setup for Client with injection at the Master



#### Test Results:

Not required

### 5.7.4 In-service Monitoring

#### Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 1-4 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

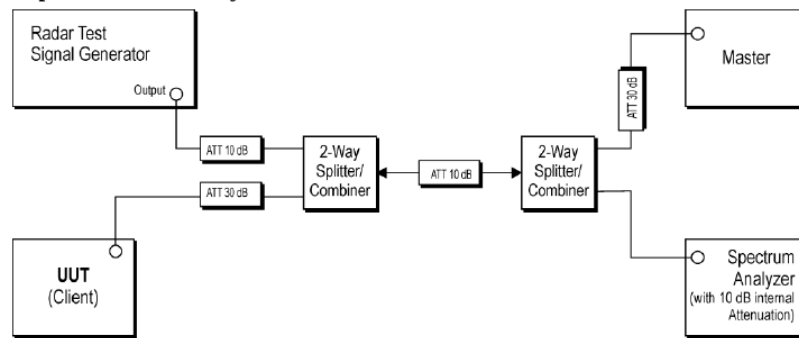
Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

#### Limits:

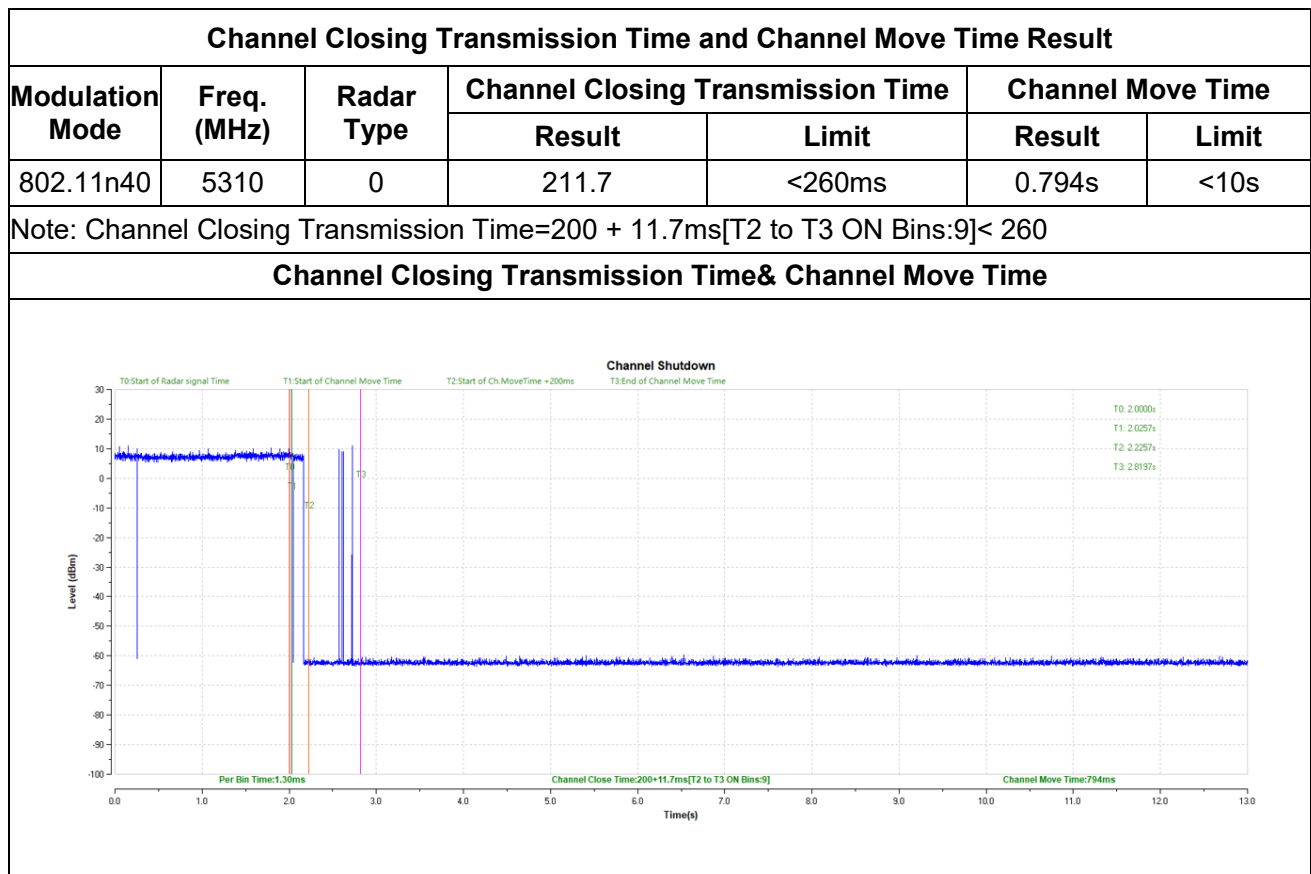
| In-service Monitoring Limit       |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| Channel Move Time                 | 10 sec                                                        |
| Channel Closing Transmission Time | 200 ms + an aggregate of 60 ms over remaining 10 sec periods. |
| Non-occupancy period              | Minimum 30 minutes                                            |

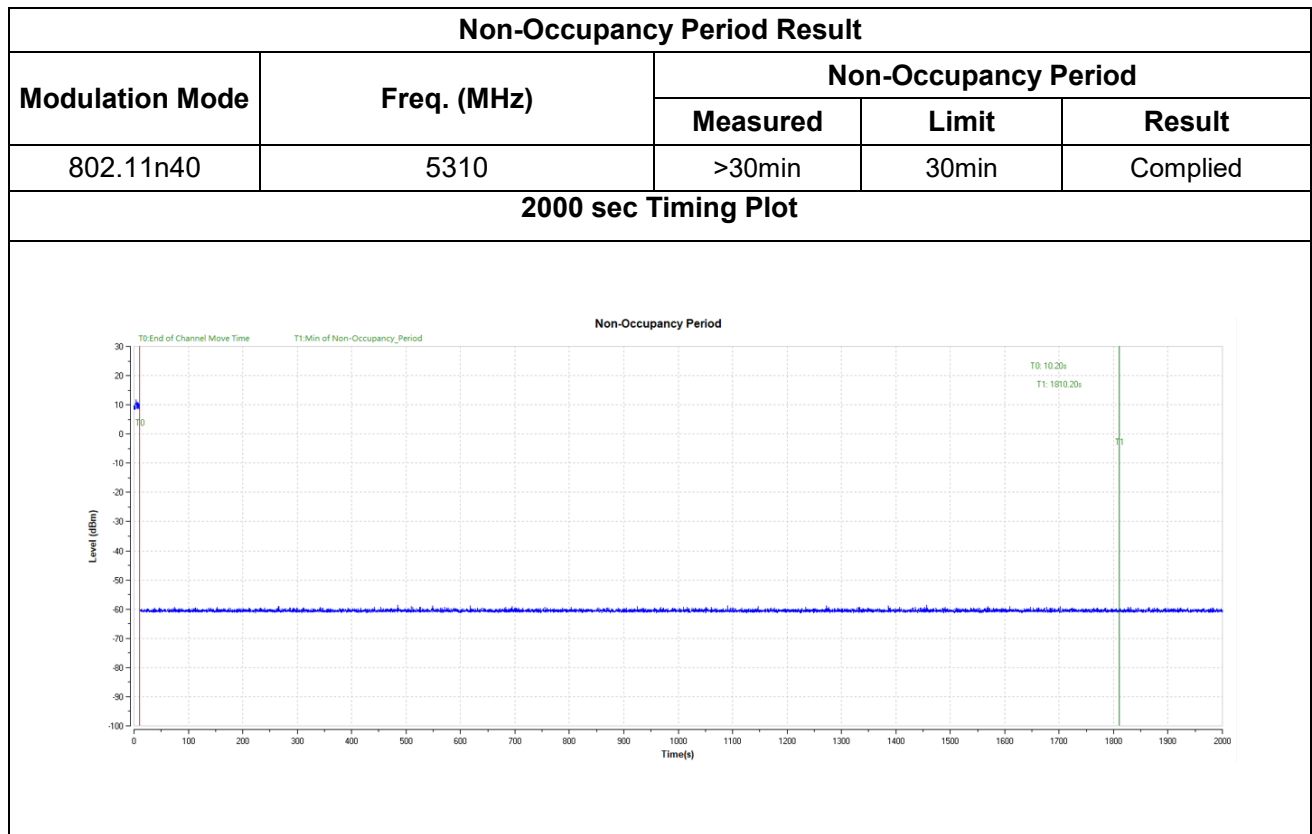
## Test Setup:

Setup for Client with injection at the Master



## Test Results:





### 5.7.5 Statistical Performance Check

#### Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.4 for Statistical Performance Check test. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

#### Limits:

| Radar Type                  | Minimum Percentage of Successful Detection (Pd) | Minimum Trials |
|-----------------------------|-------------------------------------------------|----------------|
| 1                           | 60%                                             | 30             |
| 2                           | 60%                                             | 30             |
| 3                           | 60%                                             | 30             |
| 4                           | 60%                                             | 30             |
| Aggregate (Radar Types 1-4) | 80%                                             | 120            |
| 5                           | 80%                                             | 30             |
| 6                           | 70%                                             | 30             |

The percentage of successful detection is calculated by:

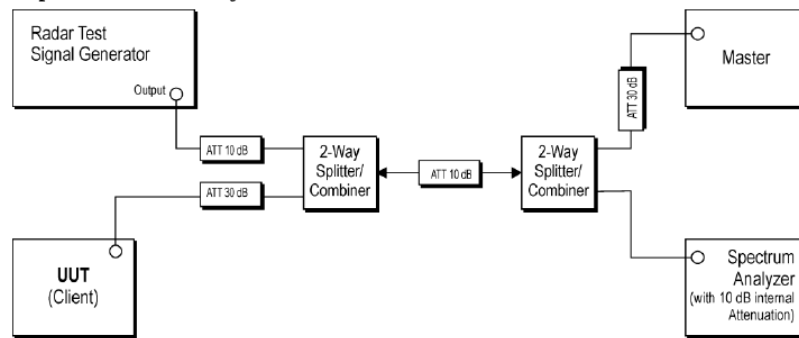
$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{Pd1+Pd2+Pd3+Pd4}{4}$$

## Test Setup:

Setup for Client with injection at the Master



## Test Results:

Not required

## 6. Appendix A

| Test Equipment                | Type/Mode                        | SERIAL NO.  | Equipment No. | Manufacturer | Cal. Due   |
|-------------------------------|----------------------------------|-------------|---------------|--------------|------------|
| Spectrum Analyzer             | FSV40                            | 101580      | DZ-000238-3   | R&S          | 2024/04/22 |
| Comprehensive Test Instrument | CMW270                           | 100304      | DZ-000240-1   | R&S          | 2023/12/06 |
| Analog Signal Generator       | SMB100A                          | 181858      | DZ-000238-2   | R&S          | 2024/05/29 |
| Vector Signal Generator       | SGT100A                          | 111661      | DZ-000238-1   | R&S          | 2024/05/29 |
| RF Radio Frequency Switch     | JS0806-2                         | 19H9080187  | DZ-000241     | Tonscend     | 2024/05/29 |
| Programmable DC Power Supply  | E3644A                           | MY58036222  | DZ-000178     | KEYSIGHT     | 2024/04/12 |
| 3m Semi-Anechoic Chamber      | FACT-4                           | ST08035     | WKNA-0024     | ETS          | 2024/12/12 |
| 5m Semi-Anechoic Chamber      | SAC-5                            | SAC-5-2.0   | EM-000557     | COMTEST      | 2024/11/02 |
| Spectrum Analyzer             | N9010B                           | MY57470323  | DZ-000174     | KEYSIGHT     | 2024/02/22 |
| EMI Test Receiver             | N9038A-508                       | MY532290079 | EM-000397     | Agilent      | 2024/02/22 |
| EMI Test Receiver             | ESR7                             | 102235      | VGDY-0956     | R&S          | 2024/02/22 |
| loop antenna                  | HLA 6121                         | 540046      | EM-000546     | TESEQ        | 2024/06/05 |
| Broadband Antenna             | VULB 9168                        | 01537       | EM-000736-1   | SCHWARZBECK  | 2024/04/24 |
| Broadband Antenna             | VULB 9163                        | 9163-530    | EM-000342     | SCHWARZBECK  | 2024/06/10 |
| Waveguide Horn Antenna        | HF906                            | 360306/008  | EM-000093     | R&S          | 2024/02/24 |
| Waveguide Horn Antenna        | BBHA9170                         | 00949       | EM-000383     | SCHWARZBECK  | 2023/08/26 |
| Bandstop Filters              | SW-BSF-2400-100-7-A1             | /           | EM-000495     | /            | 2023/08/30 |
| 5G Bandstop Filters           | WRCJV12-4900-5100-5900-6100-50EE | 1           | DZ-000186     | WI           | 2023/12/06 |
| Preamplifier                  | BBV 9721                         | 9721-050    | DZ-000209-1   | SCHWARZBECK  | 2024/06/04 |
| EMI Test Receiver             | ESR3                             | 102394      | VGDY-0705     | R&S          | 2024/04/22 |
| LISN                          | NSLK 8127                        | 8127644     | VGDY-0150     | SCHWARZBECK  | 2023/09/03 |
| Plus Limiter (#2)             | VTSD 9561                        | 9561-F017   | VGDY-0152     | SCHWARZBECK  | 2024/09/03 |
| Shielding Room(#2)            | GP1A                             | 001         | WKNF-0006     | LEINING      | 2024/08/07 |

### Description Of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Description     | Brand | Model No. | FCC ID       | Serial Number | Supplied by |
|-----------------|-------|-----------|--------------|---------------|-------------|
| Wireless-AC2900 | ASUS  | RT-AC86U  | MSQ-RTACHN00 | KBICHN000507  | /           |

The End