

# 1 CO-LOCATION

## 1.1 Transmitter Radiated Unwanted Emissions

### 1.1.1 Transmitter Radiated Unwanted Emissions Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Un-restricted Band Emissions Limit |            |
|------------------------------------|------------|
| RF output power procedure          | Limit (dB) |
| Peak output power procedure        | 20         |
| Average output power procedure     | 30         |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

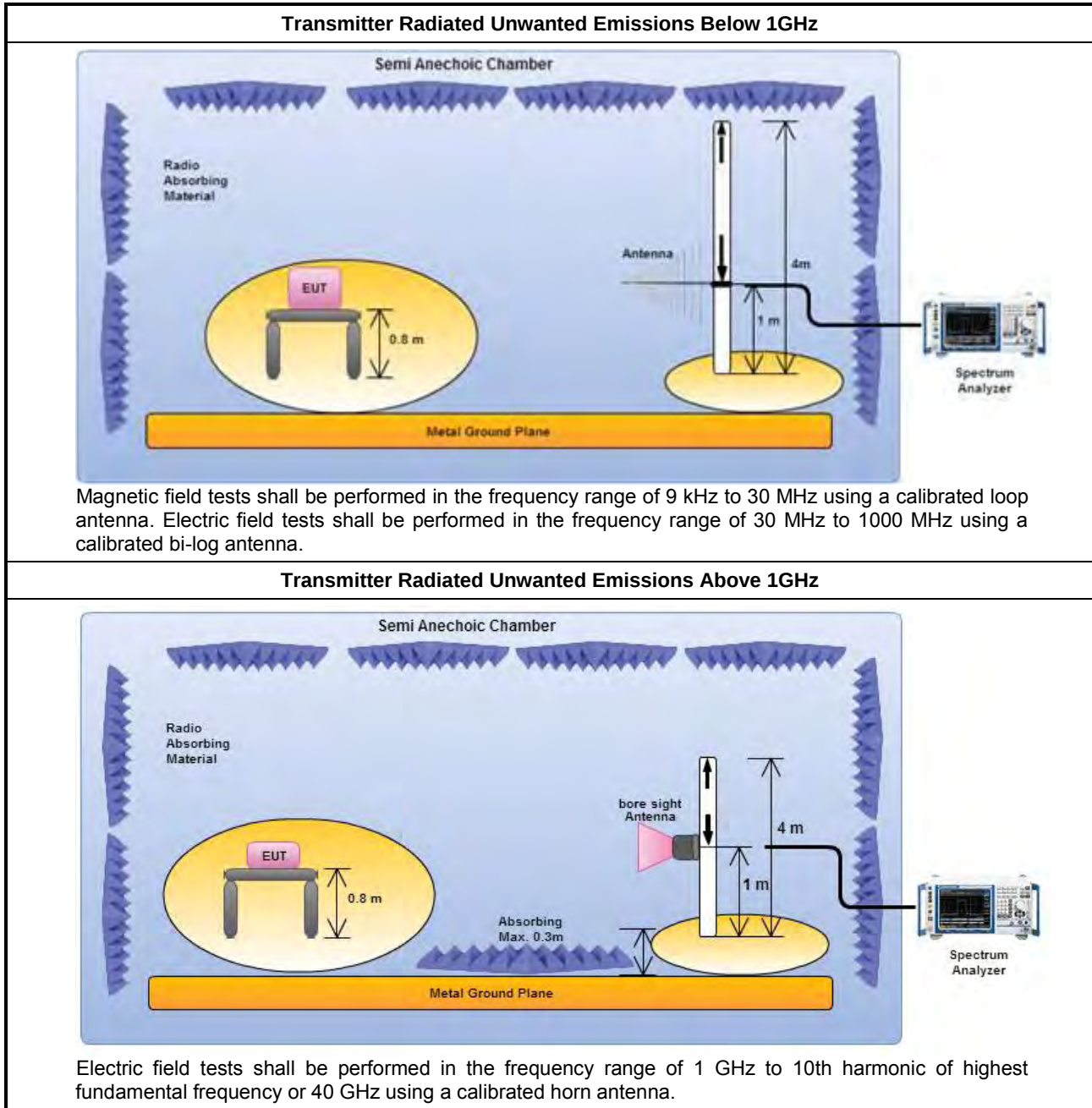
### 1.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 1.1.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). |
| <input checked="" type="checkbox"/> | The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 10.1 for unwanted emissions into non-restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 10.2 for unwanted emissions into restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.2.3.3 and 8.2.1 Option 1 (spectral trace averaging)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.2.3.3 and 8.2.1 Option 2 (slow sweep speed).                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 10.2.3.2 and 8.1.1 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 10.2.3.1 measurement procedure Quasi-Peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | For radiated measurement, refer as FCC KDB 558074, clause 10.2.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz. Test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz. Test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz. Test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 10.2.2.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/>            | For conducted unwanted emissions into non-restricted bands (relative emission limits).<br>Devices with multiple transmit chains:<br>Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.                                                                                             |
| <input type="checkbox"/>            | For conducted unwanted emissions into restricted bands (absolute emission limits).<br>Devices with multiple transmit chains using options given below:<br>(1) Measure and sum the spectra across the outputs or<br>(2) Measure and add 10 log(N) dB                                                                                                                                                                                                                                                                         |

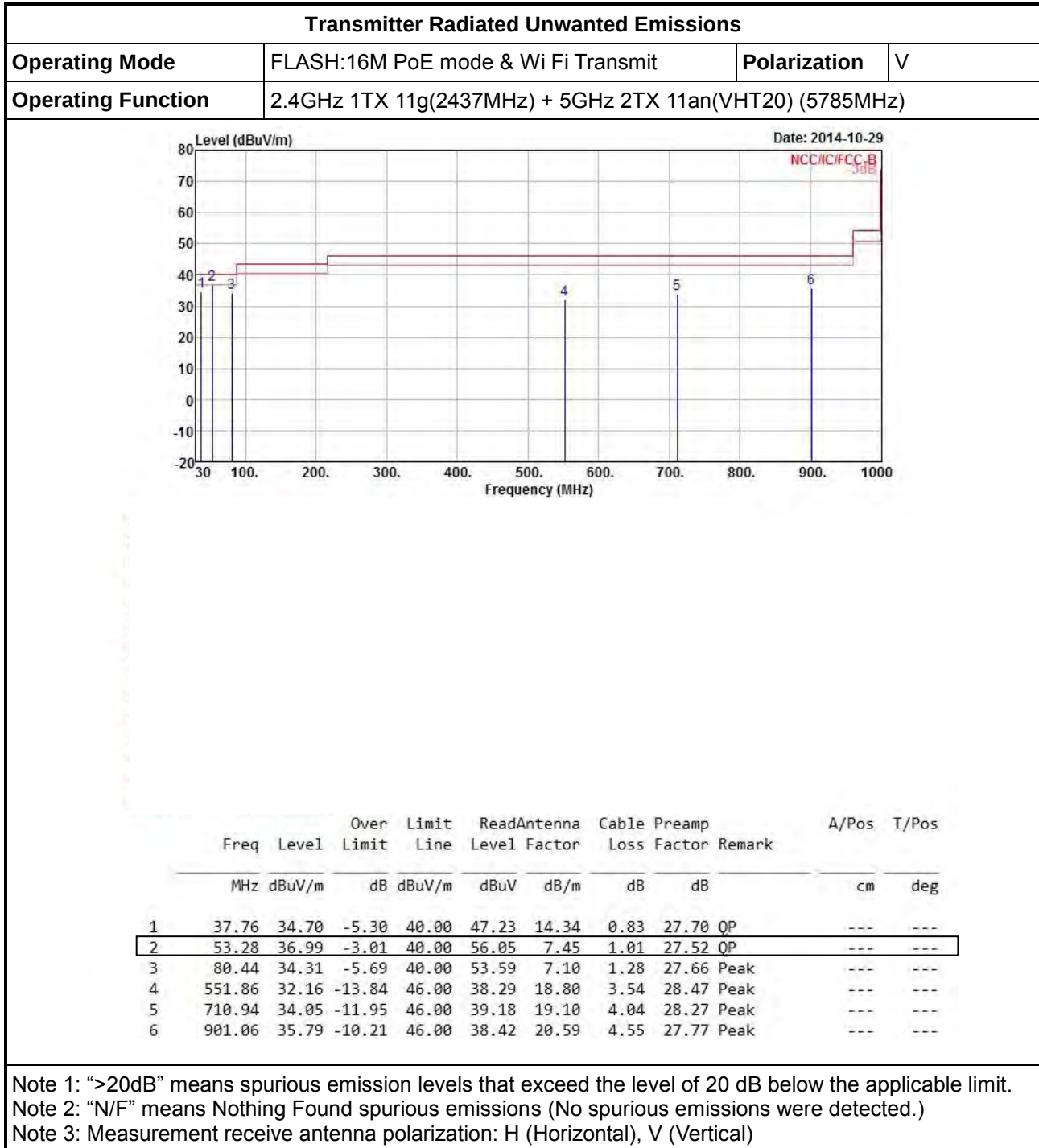
### 1.1.4 Test Setup

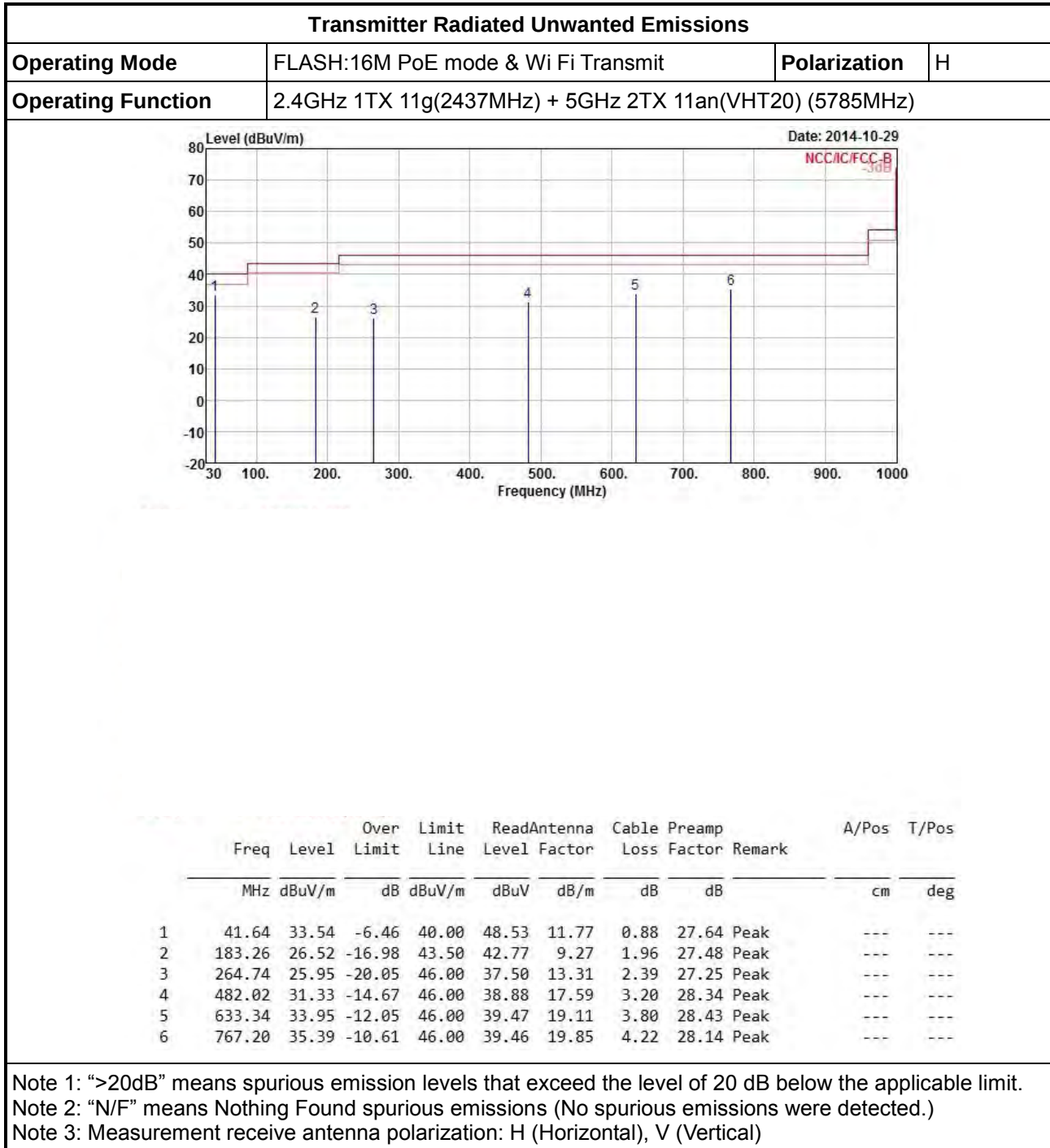


### 1.1.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

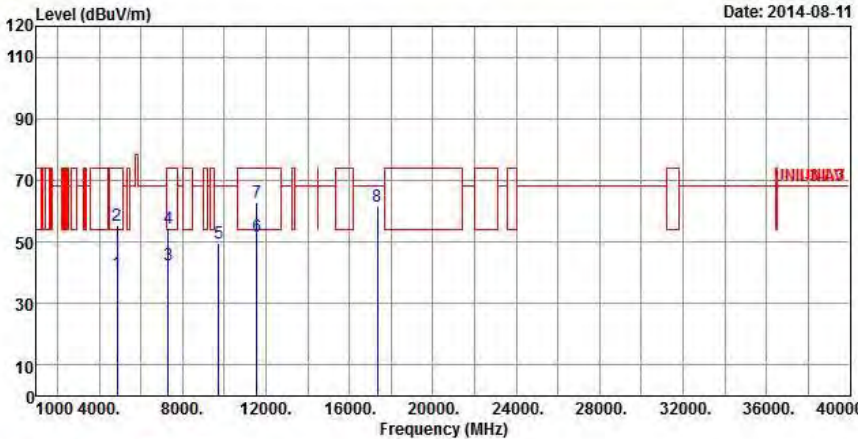
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

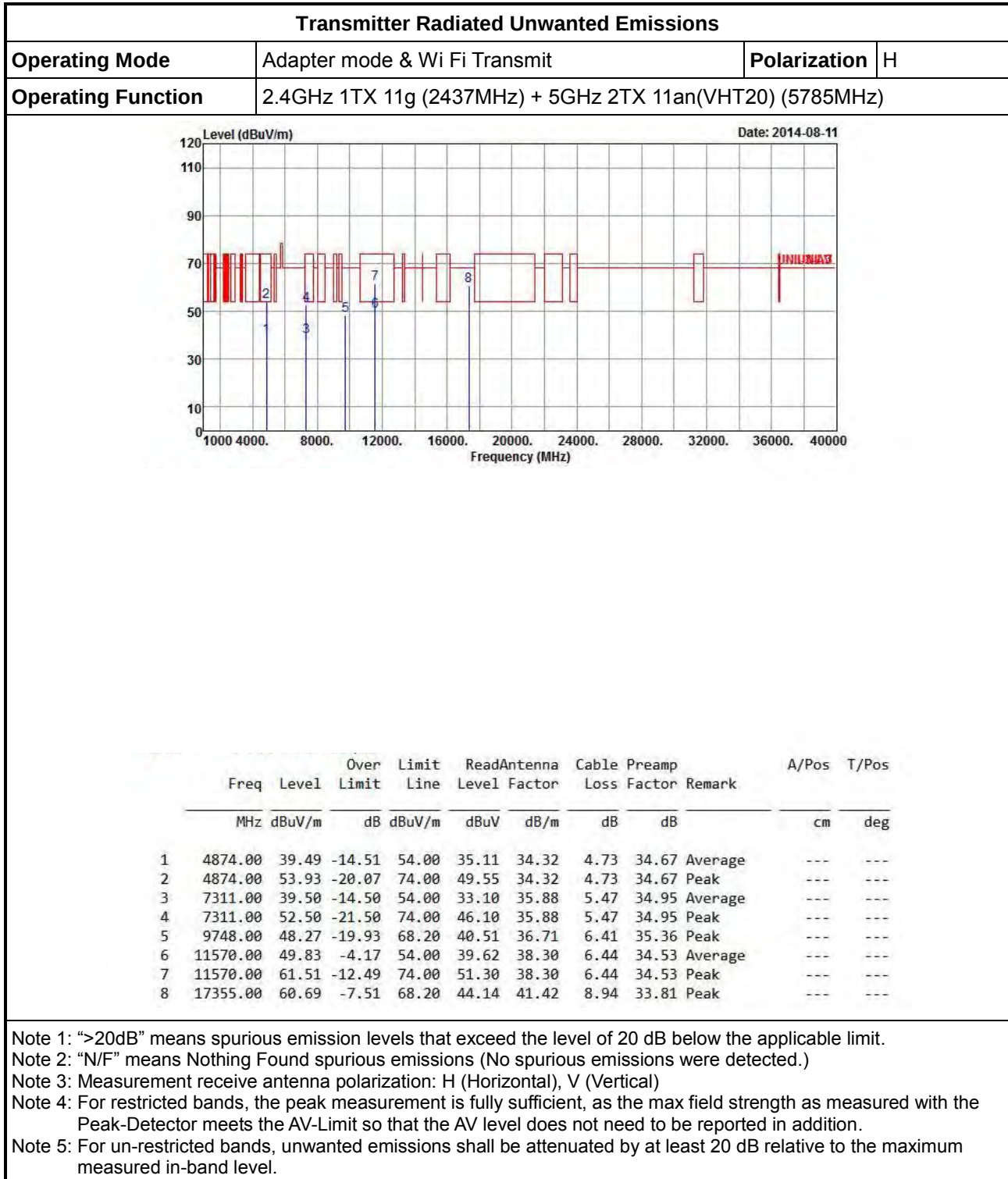
### 1.1.6 Results of Radiated Emissions (30MHz~1GHz)





**1.1.7 Results for Radiated Emissions (1GHz~10<sup>th</sup> Harmonic)**

| Transmitter Radiated Unwanted Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |        |            |            |                   |                |            |               |         |       |       |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-------|-------|------|-------|------------|------------|-------------------|----------------|------------|---------------|--------|-------|-------|--|-----|--------|----|--------|------|------|----|----|--|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|---------|-----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|------|-----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|---------|-----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|------|-----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|------|-----|-----|---|----------|-------|-------|-------|-------|-------|------|-------|---------|-----|-----|---|----------|-------|--------|-------|-------|-------|------|-------|------|-----|-----|---|----------|-------|-------|-------|-------|-------|------|-------|------|-----|-----|
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Adapter mode & Wi Fi Transmit                             |        |            |            |                   |                |            | Polarization  | V       |       |       |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.4GHz 1TX 11g (2437MHz) + 5GHz 2TX 11an(VHT20) (5785MHz) |        |            |            |                   |                |            |               |         |       |       |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| <div><div></div><div>Date: 2014-08-11</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                           |        |            |            |                   |                |            |               |         |       |       |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>ReadAntenna Level</th><th>Antenna Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Remark</th><th>A/Pos</th><th>T/Pos</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4874.00</td><td>39.91</td><td>-14.09</td><td>54.00</td><td>35.53</td><td>34.32</td><td>4.73</td><td>34.67</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>4874.00</td><td>55.20</td><td>-18.80</td><td>74.00</td><td>50.82</td><td>34.32</td><td>4.73</td><td>34.67</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7311.00</td><td>42.46</td><td>-11.54</td><td>54.00</td><td>36.06</td><td>35.88</td><td>5.47</td><td>34.95</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7311.00</td><td>54.44</td><td>-19.56</td><td>74.00</td><td>48.04</td><td>35.88</td><td>5.47</td><td>34.95</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>9748.00</td><td>49.66</td><td>-18.54</td><td>68.20</td><td>41.90</td><td>36.71</td><td>6.41</td><td>35.36</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11570.00</td><td>51.75</td><td>-2.25</td><td>54.00</td><td>41.54</td><td>38.30</td><td>6.44</td><td>34.53</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>7</td><td>11570.00</td><td>62.79</td><td>-11.21</td><td>74.00</td><td>52.58</td><td>38.30</td><td>6.44</td><td>34.53</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>8</td><td>17355.00</td><td>61.68</td><td>-6.52</td><td>68.20</td><td>45.13</td><td>41.42</td><td>8.94</td><td>33.81</td><td>Peak</td><td>---</td><td>---</td></tr></table> |                                                           |        |            |            |                   |                |            |               |         |       |       | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark | A/Pos | T/Pos |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB |  | cm | deg | 1 | 4874.00 | 39.91 | -14.09 | 54.00 | 35.53 | 34.32 | 4.73 | 34.67 | Average | --- | --- | 2 | 4874.00 | 55.20 | -18.80 | 74.00 | 50.82 | 34.32 | 4.73 | 34.67 | Peak | --- | --- | 3 | 7311.00 | 42.46 | -11.54 | 54.00 | 36.06 | 35.88 | 5.47 | 34.95 | Average | --- | --- | 4 | 7311.00 | 54.44 | -19.56 | 74.00 | 48.04 | 35.88 | 5.47 | 34.95 | Peak | --- | --- | 5 | 9748.00 | 49.66 | -18.54 | 68.20 | 41.90 | 36.71 | 6.41 | 35.36 | Peak | --- | --- | 6 | 11570.00 | 51.75 | -2.25 | 54.00 | 41.54 | 38.30 | 6.44 | 34.53 | Average | --- | --- | 7 | 11570.00 | 62.79 | -11.21 | 74.00 | 52.58 | 38.30 | 6.44 | 34.53 | Peak | --- | --- | 8 | 17355.00 | 61.68 | -6.52 | 68.20 | 45.13 | 41.42 | 8.94 | 33.81 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Freq                                                      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | A/Pos | T/Pos |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MHz                                                       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm    | deg   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4874.00                                                   | 39.91  | -14.09     | 54.00      | 35.53             | 34.32          | 4.73       | 34.67         | Average | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4874.00                                                   | 55.20  | -18.80     | 74.00      | 50.82             | 34.32          | 4.73       | 34.67         | Peak    | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7311.00                                                   | 42.46  | -11.54     | 54.00      | 36.06             | 35.88          | 5.47       | 34.95         | Average | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7311.00                                                   | 54.44  | -19.56     | 74.00      | 48.04             | 35.88          | 5.47       | 34.95         | Peak    | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9748.00                                                   | 49.66  | -18.54     | 68.20      | 41.90             | 36.71          | 6.41       | 35.36         | Peak    | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11570.00                                                  | 51.75  | -2.25      | 54.00      | 41.54             | 38.30          | 6.44       | 34.53         | Average | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11570.00                                                  | 62.79  | -11.21     | 74.00      | 52.58             | 38.30          | 6.44       | 34.53         | Peak    | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 17355.00                                                  | 61.68  | -6.52      | 68.20      | 45.13             | 41.42          | 8.94       | 33.81         | Peak    | ---   | ---   |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |
| <p>Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)</p> <p>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</p> <p>Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.</p> <p>Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |        |            |            |                   |                |            |               |         |       |       |      |       |            |            |                   |                |            |               |        |       |       |  |     |        |    |        |      |      |    |    |  |    |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |         |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |         |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |         |     |     |   |          |       |        |       |       |       |      |       |      |     |     |   |          |       |       |       |       |       |      |       |      |     |     |



## 2 TEST EQUIPMENT AND CALIBRATION DATA

### Radiated Emission

| Instrument               | Manufacturer         | Model No.   | Serial No.  | Characteristics    | Calibration Date | Remark    |
|--------------------------|----------------------|-------------|-------------|--------------------|------------------|-----------|
| Spectrum Analyzer        | R&S                  | FSP40       | 100593      | 9kHz ~ 40GHz       | Oct. 03, 2013    | Radiation |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA       | SAC-3M      | 03CH02-HY   | 30MHz ~ 1GHz<br>3m | May 11, 2014     | Radiation |
| Amplifier                | Agilent              | 8447D       | 2944A11149  | 100kHz ~ 1.3GHz    | Jul. 18, 2013    | Radiation |
| Amplifier                | Agilent              | 8447D       | 2944A11149  | 100kHz ~ 1.3GHz    | Jul. 22, 2014    | Radiation |
| Amplifier                | Agilent              | 8449B       | 3008A02373  | 1GHz ~ 26.5GHz     | Aug. 28, 2013    | Radiation |
| Horn Antenna             | ETS-LINDGREN         | 3117        | 00091920    | 1GHz ~ 18GHz       | Nov. 25, 2013    | Radiation |
| Horn Antenna             | SCHWARZBECK          | BBHA9170    | BBHA9170154 | 15GHz ~ 40GHz      | Jan. 10, 2014    | Radiation |
| RF Cable-R03m            | Jye Bao              | RG142       | CB021       | 9kHz ~ 1GHz        | Nov. 09, 2013    | Radiation |
| RF Cable-high            | SUHNER               | SUCOFLEX106 | 03CH02-HY   | 1GHz ~ 40GHz       | Mar. 05, 2014    | Radiation |
| Bilog Antenna            | SCHAFFNER            | CBL61128    | 2723        | 30MHz ~ 2GHz       | Oct. 10, 2013    | Radiation |
| Bilog Antenna            | SCHAFFNER            | CBL61128    | 2723        | 30MHz ~ 2GHz       | Sep. 20, 2014    | Radiation |
| Turn Table               | Chaintek Instruments | 3000        | MF7802058   | 0 ~ 360 degree     | N/A              | Radiation |
| Antenna Mast             | MF                   | MF7802      | MF780208205 | 1 ~ 4 m            | N/A              | Radiation |

Note: Calibration Interval of instruments listed above is one year.

| Instrument   | Manufacturer | Model No.     | Serial No. | Characteristics | Calibration Date | Remark    |
|--------------|--------------|---------------|------------|-----------------|------------------|-----------|
| Amplifier    | MITEQ        | AMF-6F-260400 | 9121372    | 26.5GHz ~ 40GHz | Apr. 19, 2013    | Radiation |
| Loop Antenna | TESEQ        | HLA 6120      | 31244      | 9 kHz ~ 30 MHz  | Dec. 02, 2012    | Radiation |

Note: Calibration Interval of instruments listed above is two years.