# Appendix B.1

## WCDMA Band II

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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band II_EIRP

### 1.1.1 Test Result

| Band | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|---|---|---|---|---|---|
| Band II | 9262 | 24.15 | 28.02 | 33 | PASS |
| Band II | 9400 | 24.4 | 28.27 | 33 | PASS |
| Band II | 9538 | 23.5 | 27.37 | 33 | PASS |

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# 2. Frequency Stability

## 2.1 Band II

### 2.1.1 Test Result

| Band II | | | | | | | |
|---|---|---|---|---|---|---|---|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | | | | Result | Limit | |
| RMC | 1852.4 | 20 | 3.135 | 1.383 | 0.0007 | / | Pass |
| | | | 3.7 | 1.475 | 0.0008 | / | Pass |
| | | | 4.4 | 2.246 | 0.0012 | / | Pass |
| | | -30 | 3.7 | 1.965 | 0.0011 | / | Pass |
| | | -20 | 3.7 | 2.049 | 0.0011 | / | Pass |
| | | -10 | 3.7 | 2.738 | 0.0015 | / | Pass |
| | | 0 | 3.7 | 2.577 | 0.0014 | / | Pass |
| | | 10 | 3.7 | 3.206 | 0.0017 | / | Pass |
| | | 30 | 3.7 | 2.567 | 0.0014 | / | Pass |
| | | 40 | 3.7 | 3.402 | 0.0018 | / | Pass |
| | | 50 | 3.7 | 3.166 | 0.0017 | / | Pass |
| | 1880 | 20 | 3.135 | 1.017 | 0.0005 | / | Pass |
| | | | 3.7 | 1.375 | 0.0007 | / | Pass |
| | | | 4.4 | 1.189 | 0.0006 | / | Pass |
| | | -30 | 3.7 | 1.151 | 0.0006 | / | Pass |
| | | -20 | 3.7 | 1.644 | 0.0009 | / | Pass |
| | | -10 | 3.7 | 2.175 | 0.0012 | / | Pass |
| | | 0 | 3.7 | 1.724 | 0.0009 | / | Pass |
| | | 10 | 3.7 | 1.416 | 0.0008 | / | Pass |
| | | 30 | 3.7 | 1.644 | 0.0009 | / | Pass |
| | | 40 | 3.7 | 1.804 | 0.0010 | / | Pass |
| | | 50 | 3.7 | 1.803 | 0.0010 | / | Pass |
| | 1907.6 | 20 | 3.135 | -1.408 | -0.0007 | / | Pass |
| | | | 3.7 | -1.128 | -0.0006 | / | Pass |
| | | | 4.4 | -1.090 | -0.0006 | / | Pass |
| | | -30 | 3.7 | -0.887 | -0.0005 | / | Pass |
| | | -20 | 3.7 | -0.974 | -0.0005 | / | Pass |
| | | -10 | 3.7 | -1.402 | -0.0007 | / | Pass |
| | | 0 | 3.7 | -0.806 | -0.0004 | / | Pass |
| | | 10 | 3.7 | -1.447 | -0.0008 | / | Pass |
| | | 30 | 3.7 | -1.066 | -0.0006 | / | Pass |
| | | 40 | 3.7 | -1.475 | -0.0008 | / | Pass |
| | | 50 | 3.7 | -1.469 | -0.0008 | / | Pass |

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# 3. 99% & 26dB Bandwidth

## 3.1 Band II_OBW

### 3.1.1 Test Result

| Band II | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1852.4 | 4.157 | / | Pass |
| | | | 1880 | 4.170 | / | Pass |
| | | | 1907.6 | 4.169 | / | Pass |

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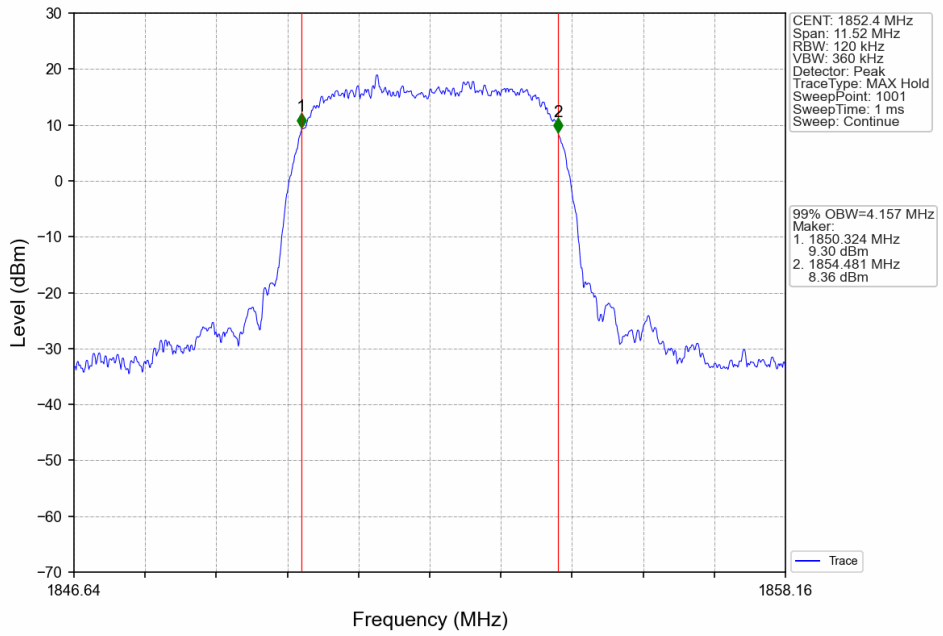
### 3.1.2 Test Graph

Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV




Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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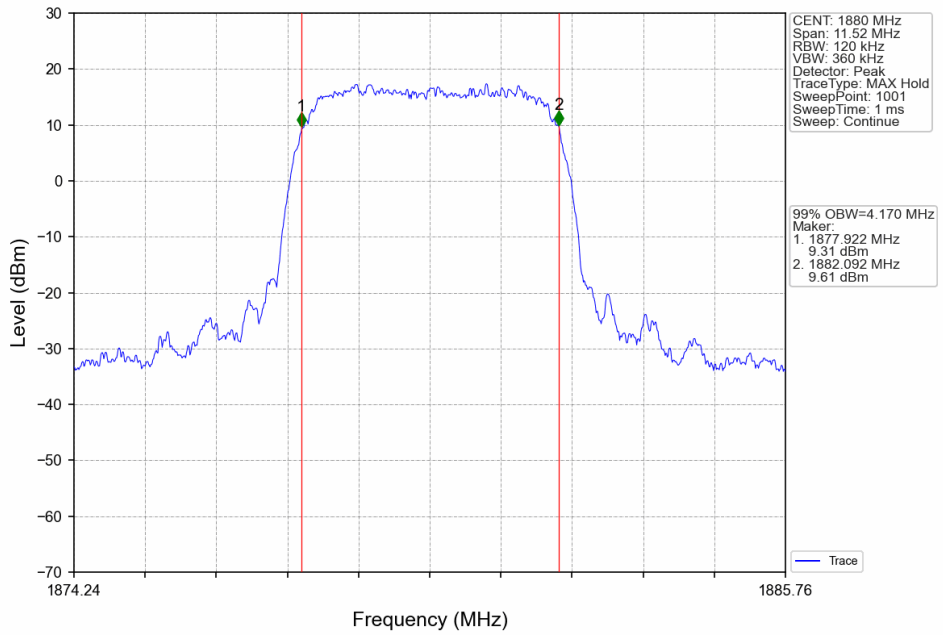


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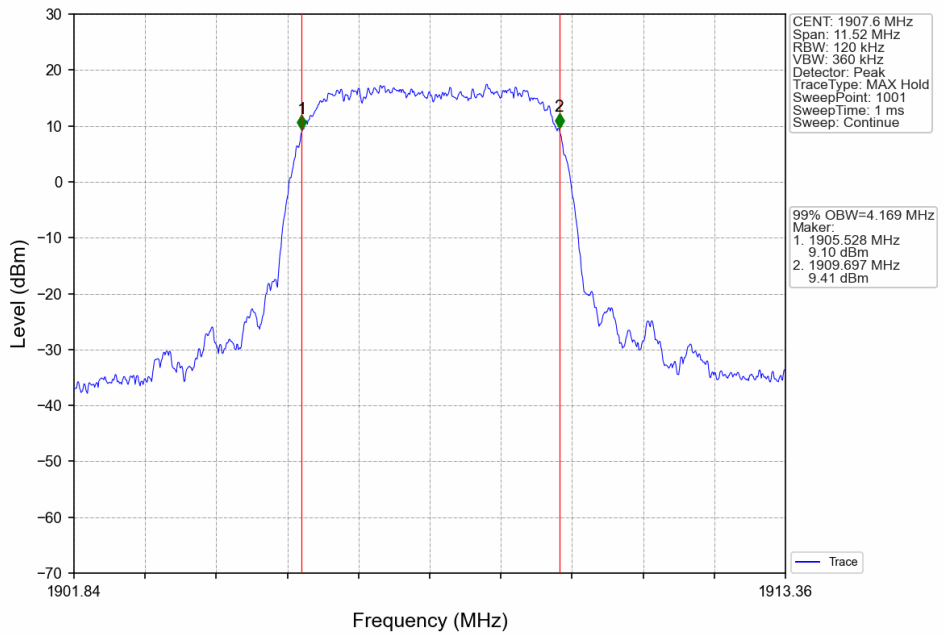


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## 3.2 Band II_XDB

### 3.2.1 Test Result

| Band II | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1852.4 | 4.748 | / | Pass |
| | | | 1880 | 4.775 | / | Pass |
| | | | 1907.6 | 4.777 | / | Pass |

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### 3.2.2 Test Graph

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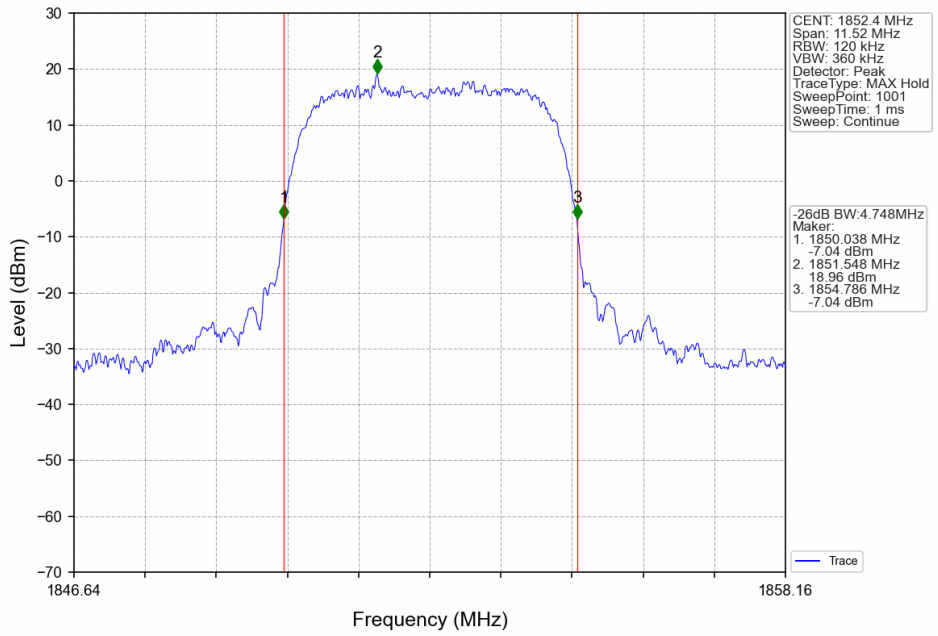


Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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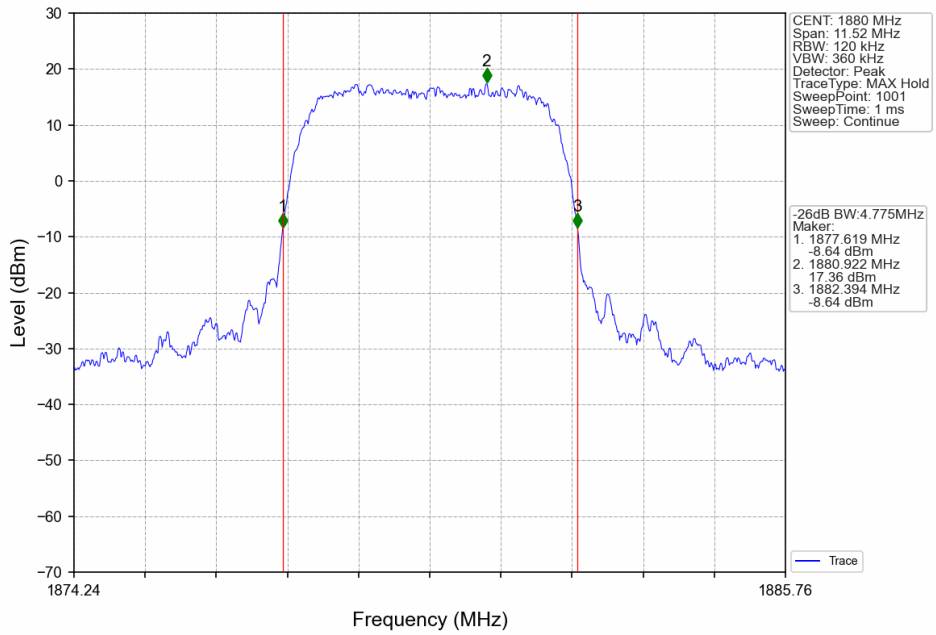


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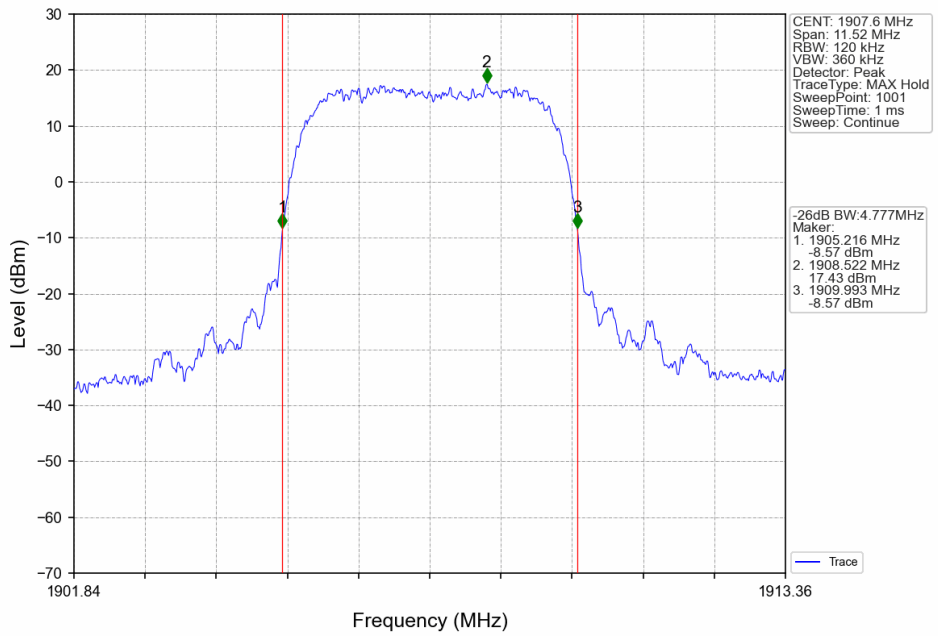


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# 4. Peak-Average Ratio

## 4.1 Band II

### 4.1.1 Test Result

| Band II | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1852.4 | 2.92 | <=13 | Pass |
| | | | 1880 | 2.85 | <=13 | Pass |
| | | | 1907.6 | 2.86 | <=13 | Pass |

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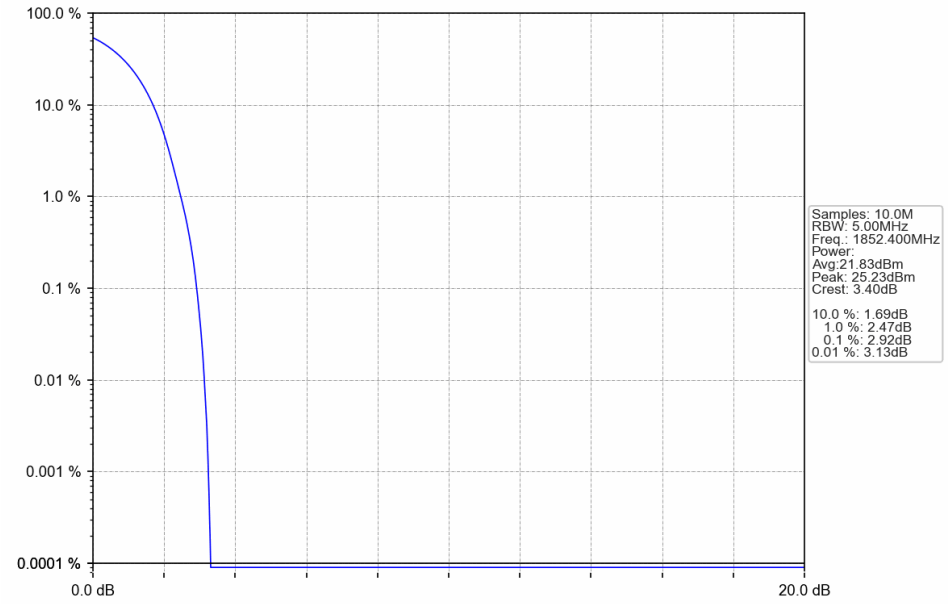
4.1.2 Test Graph

Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV




Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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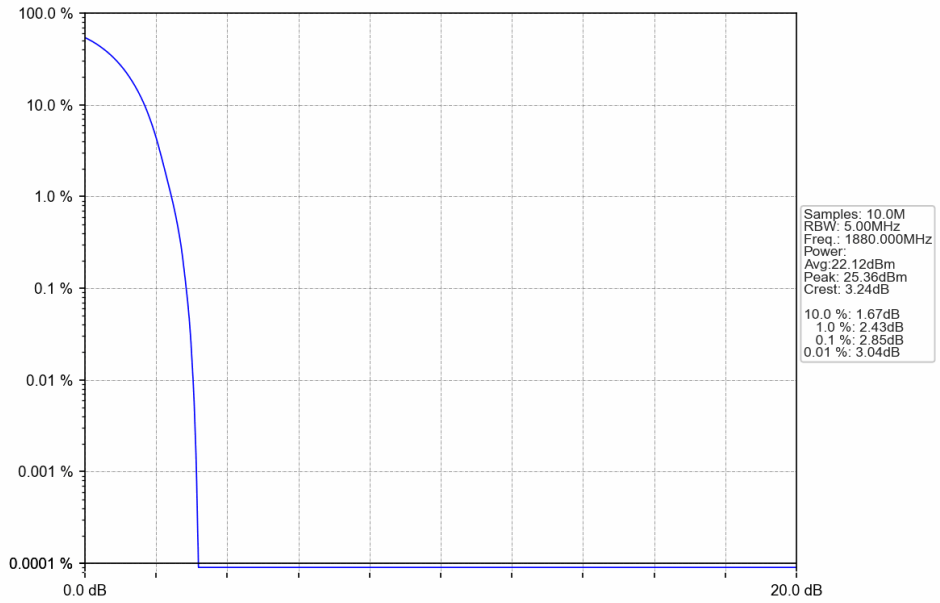


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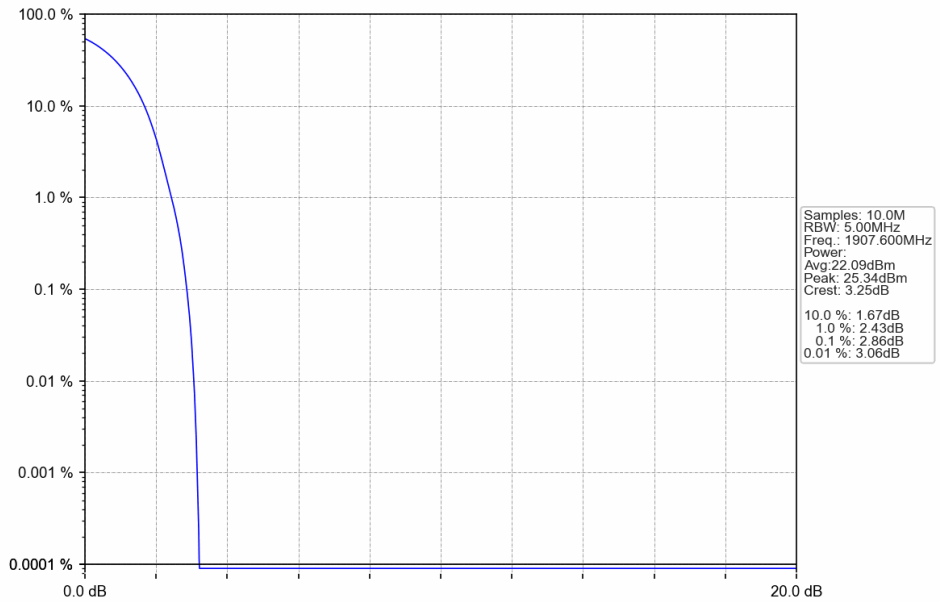
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

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# 5. Spurious Emission & Band Edges

## 5.1 Band II

### 5.1.1 Test Result

| Band II | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1852.4 | Refer To Test Graph | | Pass |
| | | | 1880 | Refer To Test Graph | | Pass |
| | | | 1907.6 | Refer To Test Graph | | Pass |

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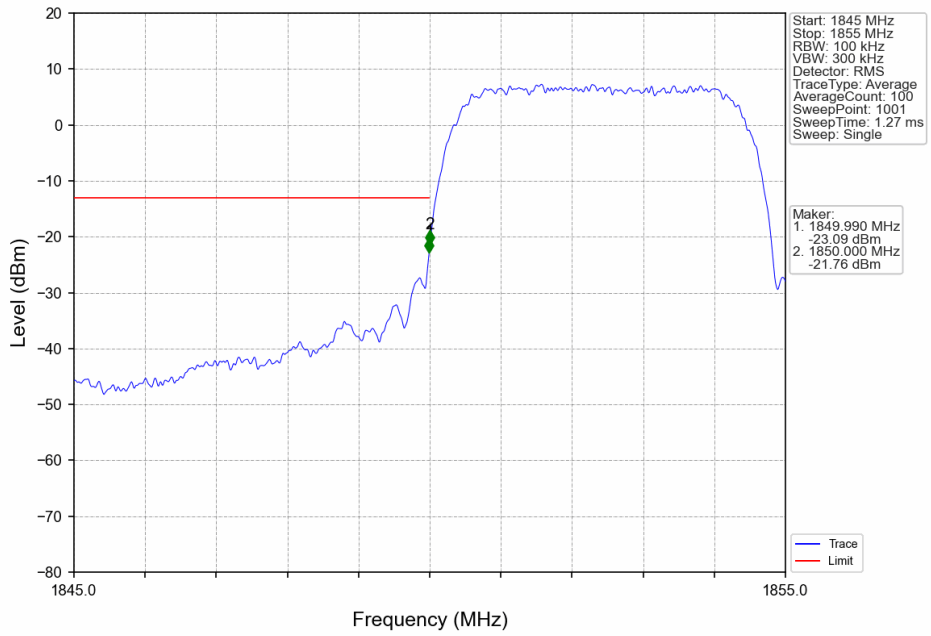


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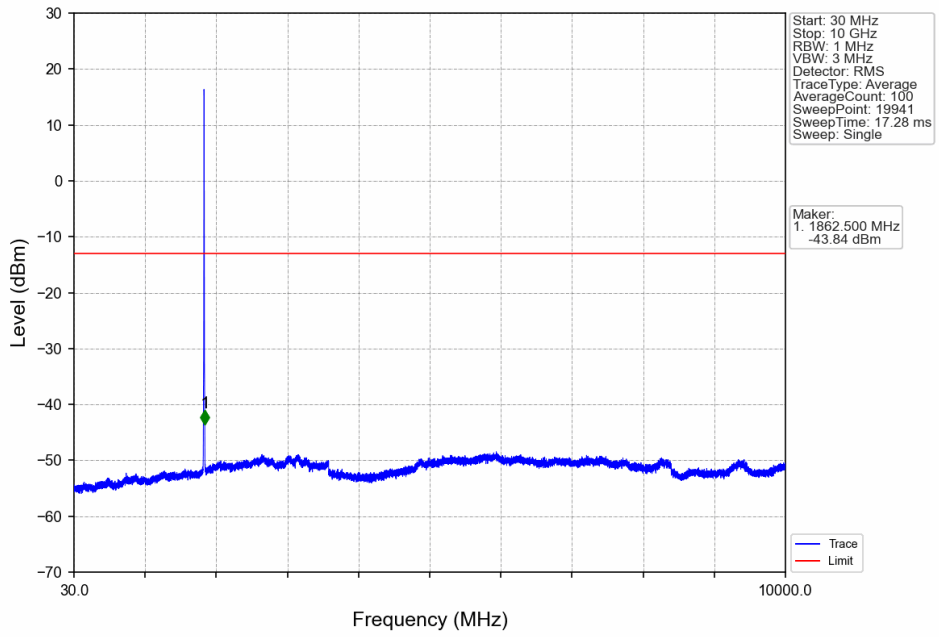


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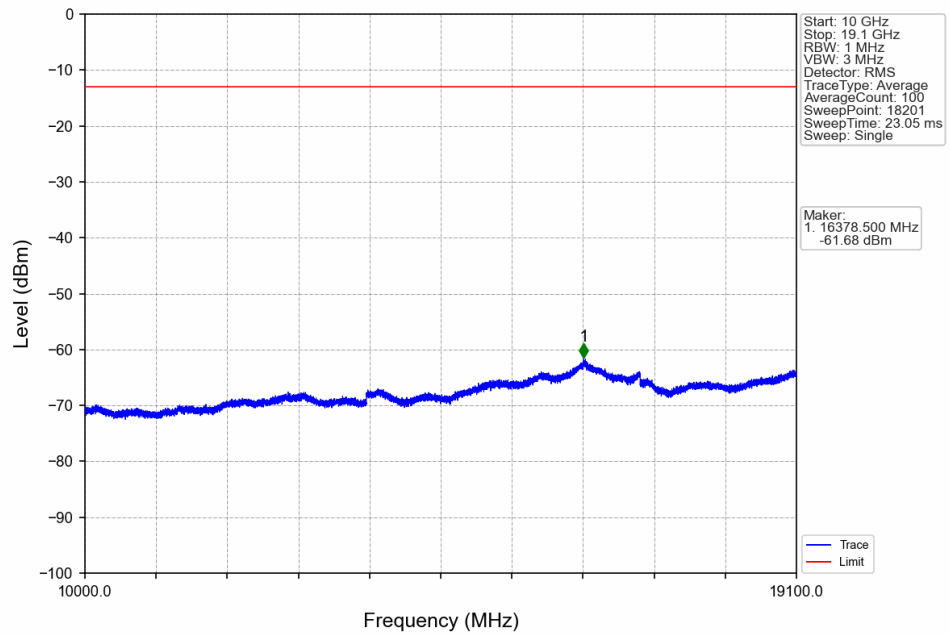


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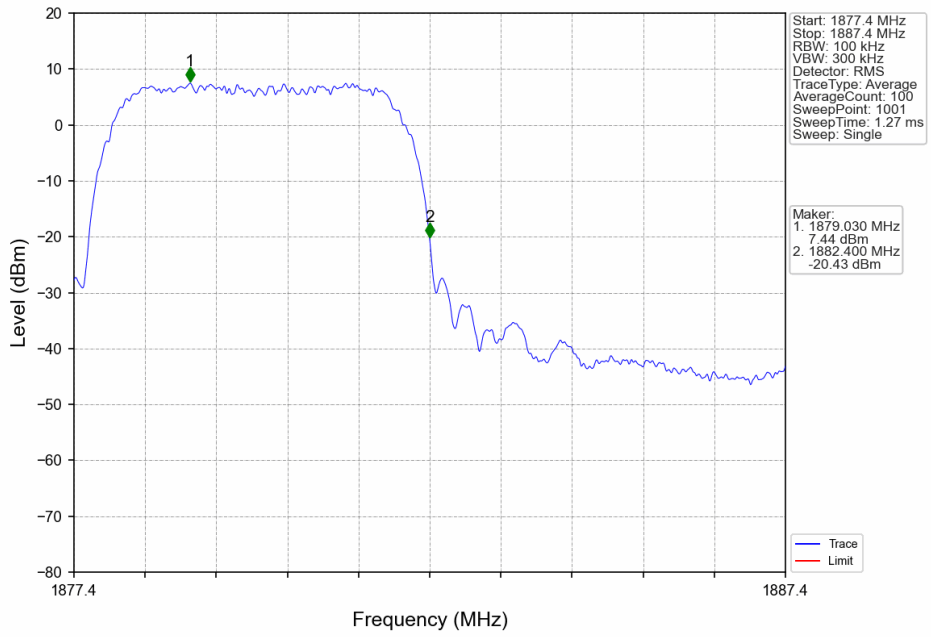


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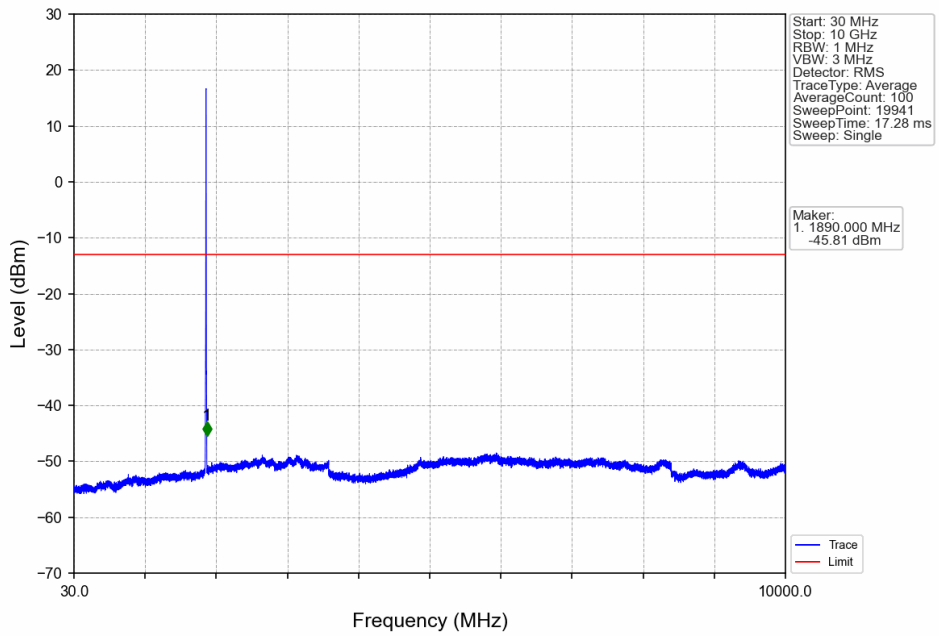


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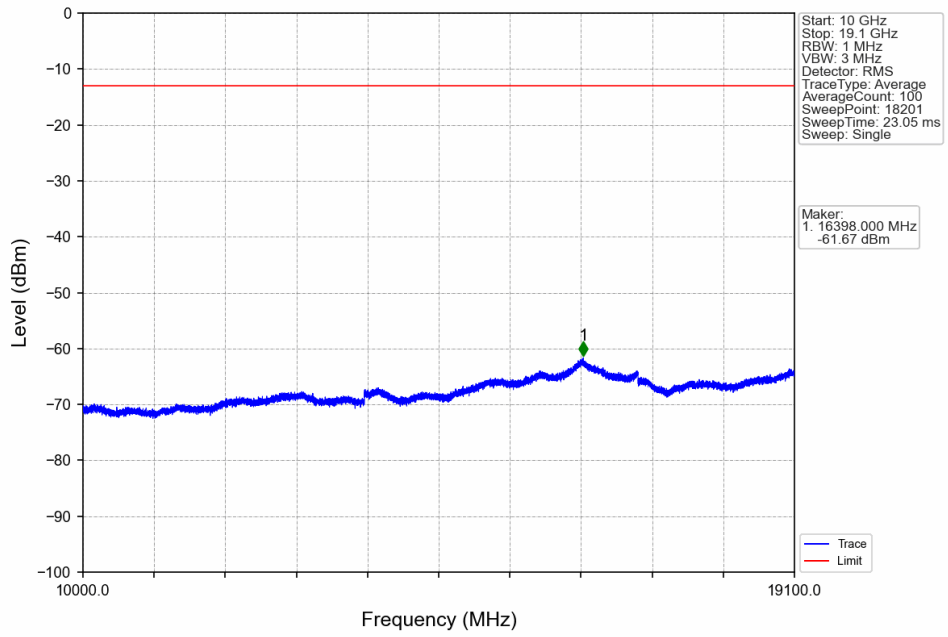


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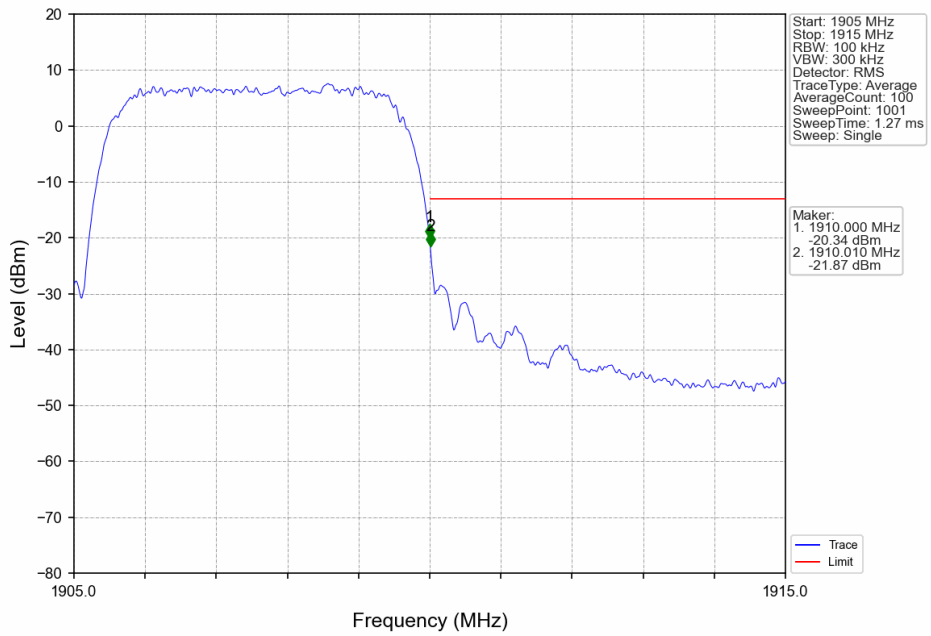


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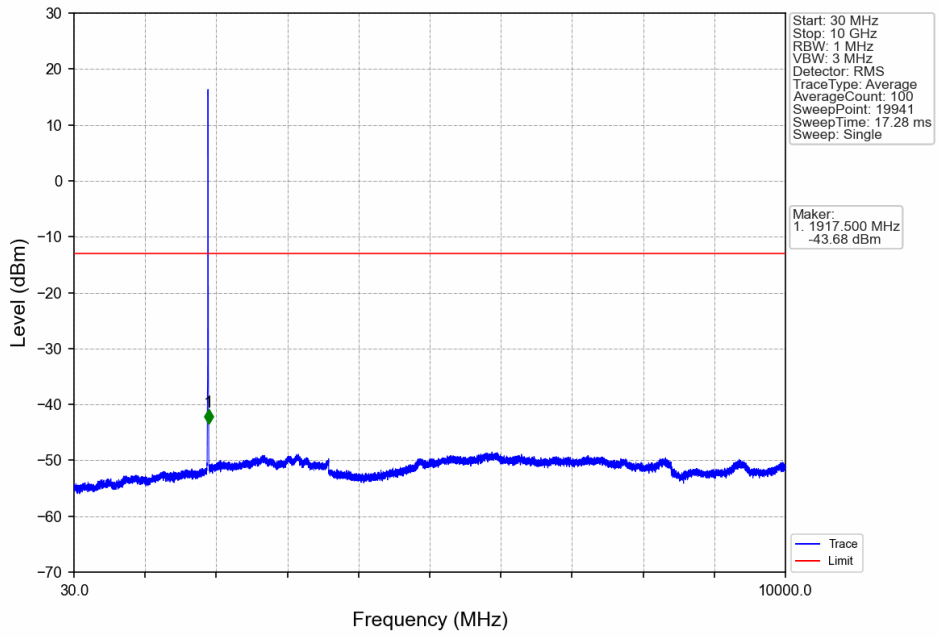


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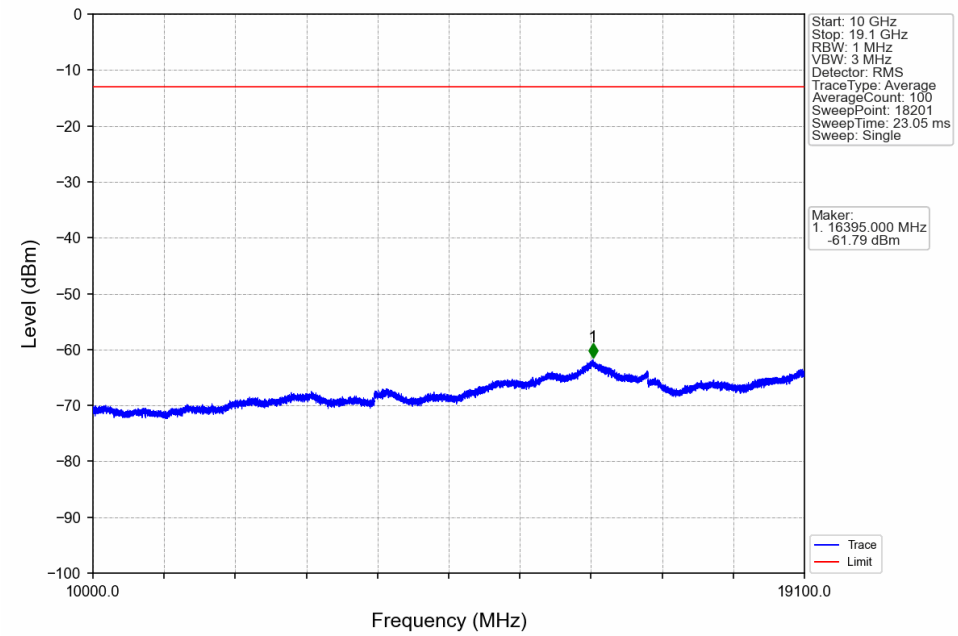
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

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# 6. Field Strength of Spurious Radiation

## For report SUCR240400009001:

**Test Band = WCDMA_ Band II**
**Test Channel = LCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3629.2815 | 54.05 | -49.52 | 30.32 | -60.41 | -13.00 | 47.41 | Horizontal |
| 2 | 5894.3947 | 51.28 | -45.63 | 34.28 | -55.33 | -13.00 | 42.33 | Horizontal |
| 3 | 8551.7776 | 48.88 | -41.40 | 39.07 | -48.71 | -13.00 | 35.71 | Horizontal |
| 4 | 11247.4124 | 47.44 | -38.62 | 39.65 | -46.79 | -13.00 | 33.79 | Horizontal |
| 5 | 15020.101 | 47.35 | -35.04 | 39.88 | -43.07 | -13.00 | 30.07 | Horizontal |
| 6 | 17985.7493 | 48.59 | -38.97 | 42.71 | -42.93 | -13.00 | 29.93 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3249.0125 | 53.31 | -50.75 | 30.60 | -62.10 | -13.00 | 49.10 | Vertical |
| 2 | 5159.358 | 52.52 | -47.03 | 33.36 | -56.41 | -13.00 | 43.41 | Vertical |
| 3 | 8550.2775 | 49.05 | -41.37 | 39.10 | -48.48 | -13.00 | 35.48 | Vertical |
| 4 | 10717.8859 | 47.26 | -39.25 | 39.54 | -47.71 | -13.00 | 34.71 | Vertical |
| 5 | 14520.576 | 47.22 | -35.94 | 40.58 | -43.40 | -13.00 | 30.40 | Vertical |
| 6 | 17012.2006 | 48.17 | -35.03 | 38.48 | -43.64 | -13.00 | 30.64 | Vertical |

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**Test Band = WCDMA_ Band II**
**Test Channel = MCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3747.0374 | 53.45 | -49.48 | 30.49 | -60.80 | -13.00 | 47.80 | Horizontal |
| 2 | 5099.355 | 52.21 | -47.47 | 33.50 | -57.02 | -13.00 | 44.02 | Horizontal |
| 3 | 6777.9389 | 50.10 | -44.49 | 36.26 | -53.39 | -13.00 | 40.39 | Horizontal |
| 4 | 8545.0273 | 48.76 | -41.46 | 38.98 | -48.98 | -13.00 | 35.98 | Horizontal |
| 5 | 11398.1699 | 47.81 | -38.52 | 39.70 | -46.27 | -13.00 | 33.27 | Horizontal |
| 6 | 15023.8512 | 47.13 | -35.08 | 39.88 | -43.33 | -13.00 | 30.33 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3761.2881 | 54.29 | -49.50 | 30.50 | -59.97 | -13.00 | 46.97 | Vertical |
| 2 | 5175.8588 | 52.27 | -46.78 | 32.93 | -56.84 | -13.00 | 43.84 | Vertical |
| 3 | 8550.2775 | 49.03 | -41.37 | 39.10 | -48.50 | -13.00 | 35.50 | Vertical |
| 4 | 11391.4196 | 47.78 | -38.56 | 39.69 | -46.35 | -13.00 | 33.35 | Vertical |
| 5 | 14359.318 | 47.61 | -36.40 | 40.58 | -43.47 | -13.00 | 30.47 | Vertical |
| 6 | 17998.4999 | 48.53 | -38.99 | 42.79 | -42.93 | -13.00 | 29.93 | Vertical |

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**Test Band = WCDMA_ Band II**
**Test Channel = HCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 4011.8006 | 52.81 | -48.95 | 31.05 | -60.35 | -13.00 | 47.35 | Horizontal |
| 2 | 5160.858 | 52.25 | -47.01 | 33.32 | -56.70 | -13.00 | 43.70 | Horizontal |
| 3 | 6856.6928 | 50.52 | -44.61 | 36.11 | -53.24 | -13.00 | 40.24 | Horizontal |
| 4 | 8548.7774 | 48.72 | -41.38 | 39.07 | -48.85 | -13.00 | 35.85 | Horizontal |
| 5 | 11240.662 | 47.63 | -38.69 | 39.66 | -46.66 | -13.00 | 33.66 | Horizontal |
| 6 | 14528.0764 | 46.84 | -35.74 | 40.57 | -43.59 | -13.00 | 30.59 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3817.5409 | 54.74 | -49.68 | 30.46 | -59.74 | -13.00 | 46.74 | Vertical |
| 2 | 5733.1367 | 51.51 | -46.29 | 33.77 | -56.27 | -13.00 | 43.27 | Vertical |
| 3 | 7452.9726 | 49.87 | -43.27 | 36.69 | -51.97 | -13.00 | 38.97 | Vertical |
| 4 | 9485.5743 | 49.05 | -40.72 | 39.14 | -47.79 | -13.00 | 34.79 | Vertical |
| 5 | 14377.3189 | 47.38 | -36.23 | 40.55 | -43.56 | -13.00 | 30.56 | Vertical |
| 6 | 17909.2455 | 48.14 | -38.18 | 42.26 | -43.04 | -13.00 | 30.04 | Vertical |

Remark:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier (dB)
Level = Reading Level + AF + Factor -95.26
Margin = Limit – Level

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For report SUCR240400008901:

**Test Band = WCDMA_ Band II _TM1**
**Test Channel = LCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3925.5 | 46.73 | -43.86 | 29.80 | -62.59 | -13.00 | 49.59 | Horizontal |
| 2 | 5931 | 45.27 | -40.90 | 32.86 | -58.03 | -13.00 | 45.03 | Horizontal |
| 3 | 7443 | 43.77 | -37.75 | 36.79 | -52.45 | -13.00 | 39.45 | Horizontal |
| 4 | 11569 | 43.17 | -34.52 | 40.27 | -46.34 | -13.00 | 33.34 | Horizontal |
| 5 | 16098.5 | 40.89 | -28.06 | 38.10 | -44.33 | -13.00 | 31.33 | Horizontal |
| 6 | 17996 | 40.16 | -39.77 | 48.13 | -46.74 | -13.00 | 33.74 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3703.5 | 50.11 | -44.18 | 29.32 | -60.01 | -13.00 | 47.01 | Vertical |
| 2 | 5613.5 | 45.29 | -41.44 | 32.57 | -58.84 | -13.00 | 45.84 | Vertical |
| 3 | 7412.5 | 44.28 | -37.94 | 36.73 | -52.19 | -13.00 | 39.19 | Vertical |
| 4 | 10006 | 43.25 | -34.91 | 38.71 | -48.21 | -13.00 | 35.21 | Vertical |
| 5 | 13427.5 | 42.83 | -33.08 | 39.68 | -45.83 | -13.00 | 32.83 | Vertical |
| 6 | 17989.5 | 40.01 | -39.76 | 48.01 | -47.00 | -13.00 | 34.00 | Vertical |

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**Test Band = WCDMA_ Band II _TM1**
**Test Channel = MCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3720.5 | 46.66 | -44.06 | 29.42 | -63.24 | -13.00 | 50.24 | Horizontal |
| 2 | 5599 | 45.45 | -41.49 | 32.59 | -58.71 | -13.00 | 45.71 | Horizontal |
| 3 | 7404.5 | 44.13 | -37.98 | 36.71 | -52.40 | -13.00 | 39.40 | Horizontal |
| 4 | 11540 | 43.30 | -34.56 | 40.24 | -46.28 | -13.00 | 33.28 | Horizontal |
| 5 | 14797.5 | 41.55 | -32.61 | 41.61 | -44.71 | -13.00 | 31.71 | Horizontal |
| 6 | 17991.5 | 40.52 | -39.76 | 48.05 | -46.45 | -13.00 | 33.45 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3761.5 | 48.70 | -43.86 | 29.65 | -60.77 | -13.00 | 47.77 | Vertical |
| 2 | 5487 | 45.98 | -41.52 | 32.35 | -58.45 | -13.00 | 45.45 | Vertical |
| 3 | 7663.5 | 43.98 | -37.40 | 36.65 | -52.03 | -13.00 | 39.03 | Vertical |
| 4 | 11461.5 | 43.01 | -34.65 | 40.24 | -46.66 | -13.00 | 33.66 | Vertical |
| 5 | 13722 | 42.67 | -32.97 | 40.27 | -45.29 | -13.00 | 32.29 | Vertical |
| 6 | 17979.5 | 40.18 | -39.75 | 47.83 | -47.00 | -13.00 | 34.00 | Vertical |

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**Test Band = WCDMA_ Band II _TM1**
**Test Channel = HCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3812.5 | 46.74 | -43.87 | 29.78 | -62.61 | -13.00 | 49.61 | Horizontal |
| 2 | 5601 | 45.65 | -41.49 | 32.60 | -58.50 | -13.00 | 45.50 | Horizontal |
| 3 | 7990 | 43.33 | -36.84 | 36.40 | -52.37 | -13.00 | 39.37 | Horizontal |
| 4 | 11537 | 43.28 | -34.57 | 40.24 | -46.31 | -13.00 | 33.31 | Horizontal |
| 5 | 14855 | 41.85 | -32.82 | 41.27 | -44.96 | -13.00 | 31.96 | Horizontal |
| 6 | 17987 | 40.30 | -39.76 | 47.97 | -46.75 | -13.00 | 33.75 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3814 | 51.14 | -43.87 | 29.77 | -58.22 | -13.00 | 45.22 | Vertical |
| 2 | 5377 | 45.66 | -41.82 | 32.36 | -59.06 | -13.00 | 46.06 | Vertical |
| 3 | 7740.5 | 43.58 | -37.48 | 36.48 | -52.68 | -13.00 | 39.68 | Vertical |
| 4 | 10387.5 | 42.43 | -34.59 | 39.19 | -48.23 | -13.00 | 35.23 | Vertical |
| 5 | 13707 | 42.61 | -33.37 | 40.22 | -45.80 | -13.00 | 32.80 | Vertical |
| 6 | 16096 | 41.25 | -28.12 | 38.09 | -44.04 | -13.00 | 31.04 | Vertical |

Remark:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier (dB)
Level = Reading Level + AF + Factor -95.26
Margin = Limit – Level

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