# Appendix B.2

## WCDMA Band IV

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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band IV_EIRP

### 1.1.1 Test Result

| Band | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|---|---|---|---|---|---|
| Band IV | 1312 | 23.46 | 27.37 | 30 | PASS |
| Band IV | 1413 | 23.14 | 27.05 | 30 | PASS |
| Band IV | 1513 | 23.3 | 27.21 | 30 | PASS |

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# 2. Frequency Stability

## 2.1 Band IV

### 2.1.1 Test Result

| Band IV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | | | | Result | Limit | |
| RMC | 1712.4 | 20 | 3.135 | 12.816 | 0.0075 | / | Pass |
| | | | 3.7 | 13.371 | 0.0078 | / | Pass |
| | | | 4.4 | 13.033 | 0.0076 | / | Pass |
| | | -30 | 3.7 | 12.987 | 0.0076 | / | Pass |
| | | -20 | 3.7 | 13.877 | 0.0081 | / | Pass |
| | | -10 | 3.7 | 13.320 | 0.0078 | / | Pass |
| | | 0 | 3.7 | 13.418 | 0.0078 | / | Pass |
| | | 10 | 3.7 | 13.618 | 0.0080 | / | Pass |
| | | 30 | 3.7 | 13.456 | 0.0079 | / | Pass |
| | | 40 | 3.7 | 13.375 | 0.0078 | / | Pass |
| | | 50 | 3.7 | 13.271 | 0.0077 | / | Pass |
| | 1732.6 | 20 | 3.135 | -2.966 | -0.0017 | / | Pass |
| | | | 3.7 | -2.853 | -0.0016 | / | Pass |
| | | | 4.4 | -3.798 | -0.0022 | / | Pass |
| | | -30 | 3.7 | -3.166 | -0.0018 | / | Pass |
| | | -20 | 3.7 | -3.564 | -0.0021 | / | Pass |
| | | -10 | 3.7 | -2.967 | -0.0017 | / | Pass |
| | | 0 | 3.7 | -3.321 | -0.0019 | / | Pass |
| | | 10 | 3.7 | -3.237 | -0.0019 | / | Pass |
| | | 30 | 3.7 | -3.373 | -0.0019 | / | Pass |
| | | 40 | 3.7 | -3.191 | -0.0018 | / | Pass |
| | | 50 | 3.7 | -2.913 | -0.0017 | / | Pass |
| | 1752.6 | 20 | 3.135 | -12.075 | -0.0069 | / | Pass |
| | | | 3.7 | -11.875 | -0.0068 | / | Pass |
| | | | 4.4 | -12.509 | -0.0071 | / | Pass |
| | | -30 | 3.7 | -11.575 | -0.0066 | / | Pass |
| | | -20 | 3.7 | -11.759 | -0.0067 | / | Pass |
| | | -10 | 3.7 | -11.804 | -0.0067 | / | Pass |
| | | 0 | 3.7 | -11.785 | -0.0067 | / | Pass |
| | | 10 | 3.7 | -12.253 | -0.0070 | / | Pass |
| | | 30 | 3.7 | -12.107 | -0.0069 | / | Pass |
| | | 40 | 3.7 | -12.465 | -0.0071 | / | Pass |
| | | 50 | 3.7 | -11.658 | -0.0067 | / | Pass |

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# 3. 99% & 26dB Bandwidth

## 3.1 Band IV_OBW

### 3.1.1 Test Result

| Band IV | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | 4.173 | / | Pass |
| | | | 1732.6 | 4.154 | / | Pass |
| | | | 1752.6 | 4.171 | / | Pass |

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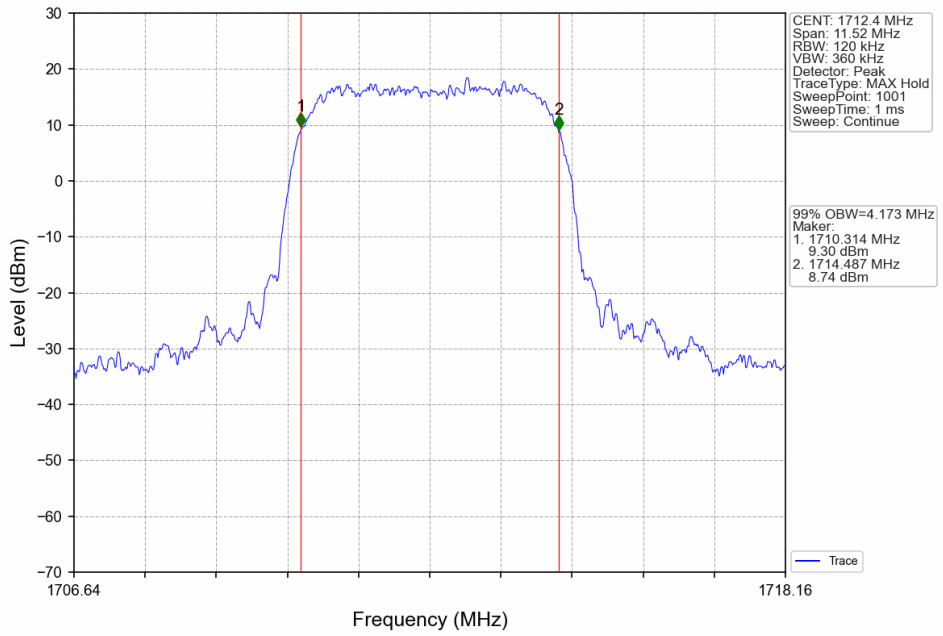
### 3.1.2 Test Graph

Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV




Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

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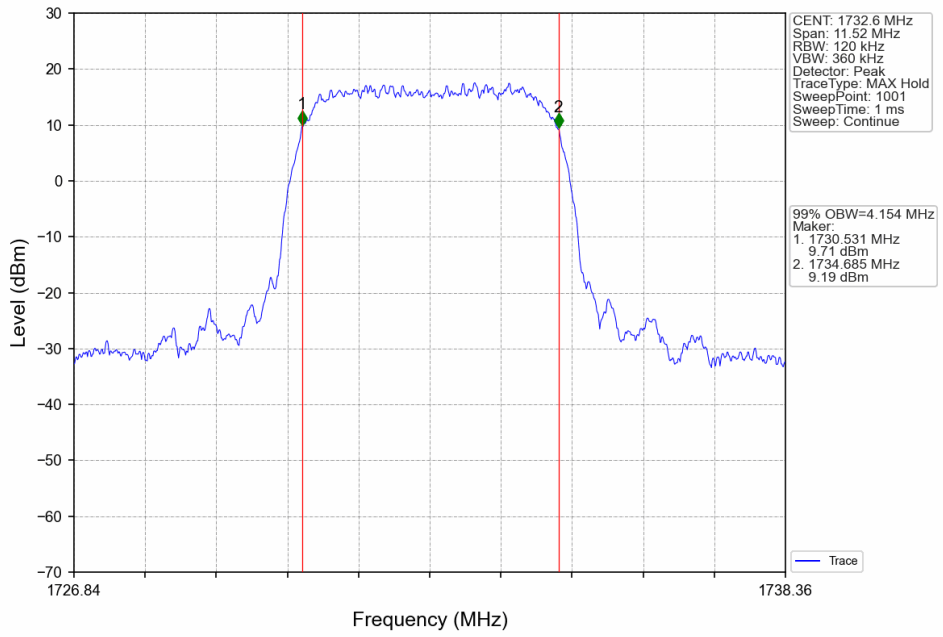


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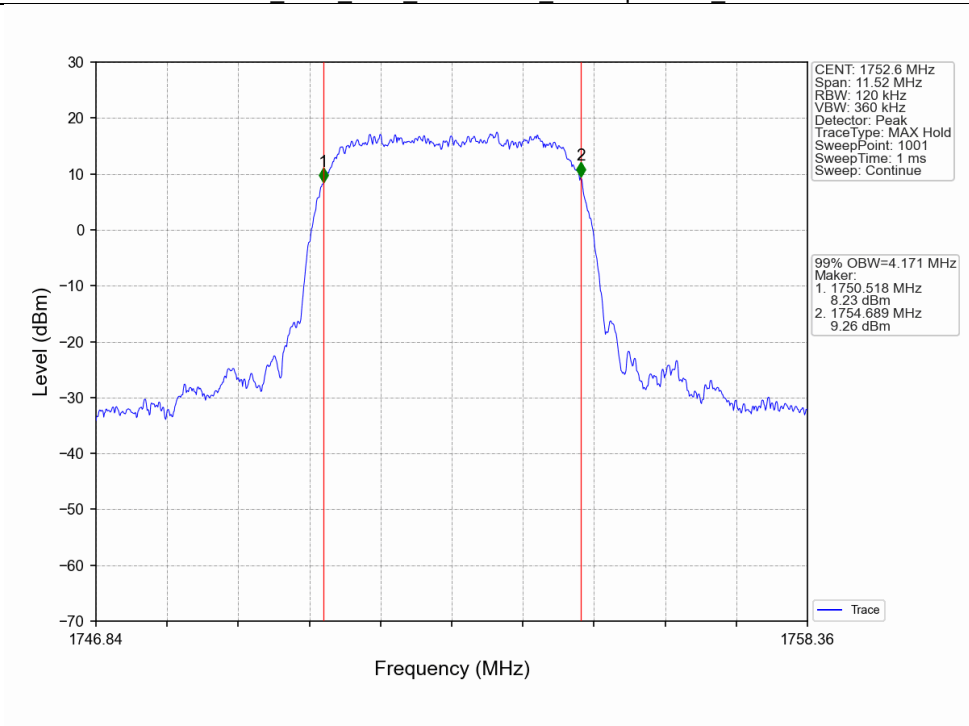


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## 3.2 Band IV_XDB

### 3.2.1 Test Result

| Band IV | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | 4.755 | / | Pass |
| | | | 1732.6 | 4.771 | / | Pass |
| | | | 1752.6 | 4.771 | / | Pass |

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### 3.2.2 Test Graph

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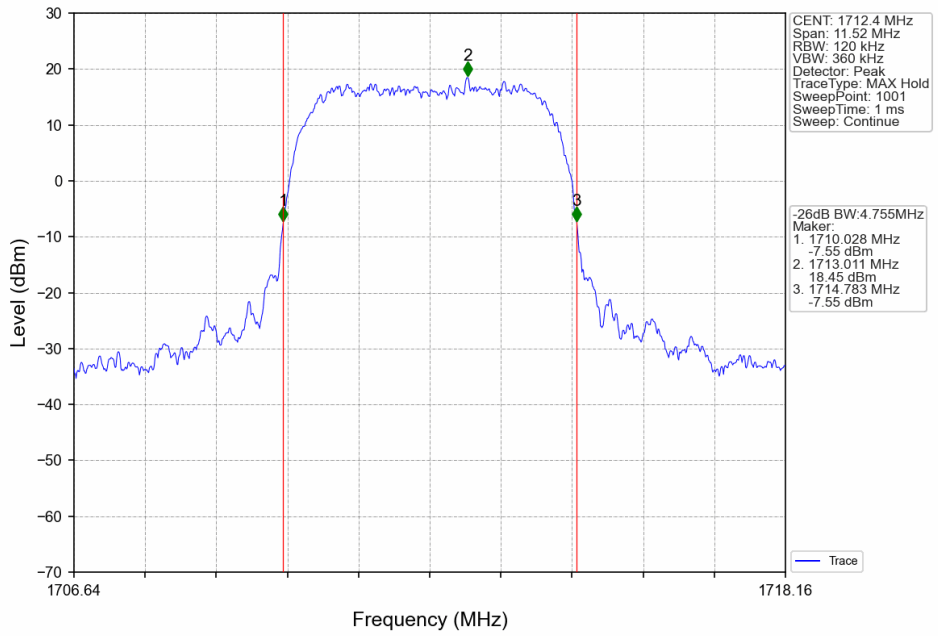


Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

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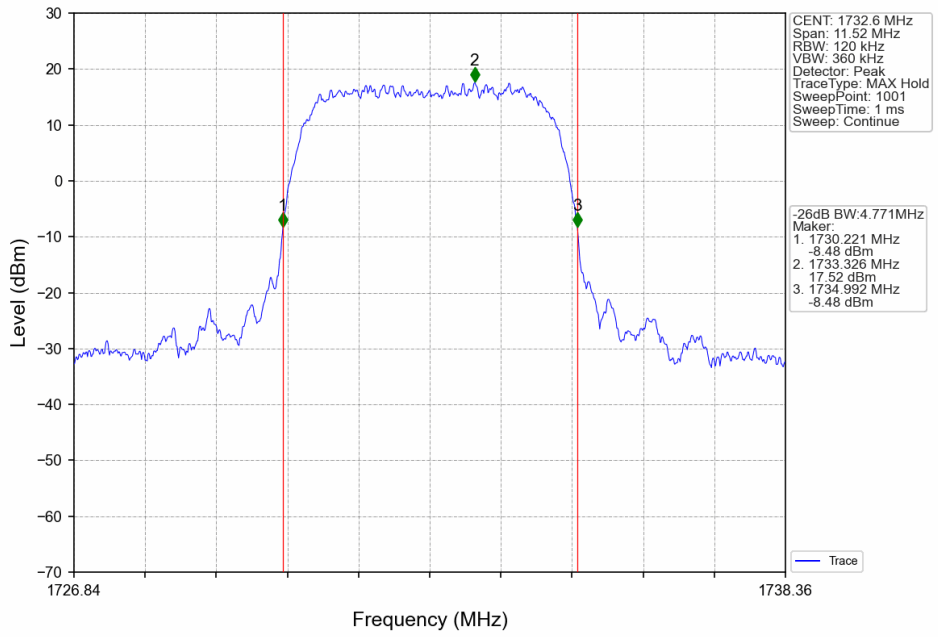


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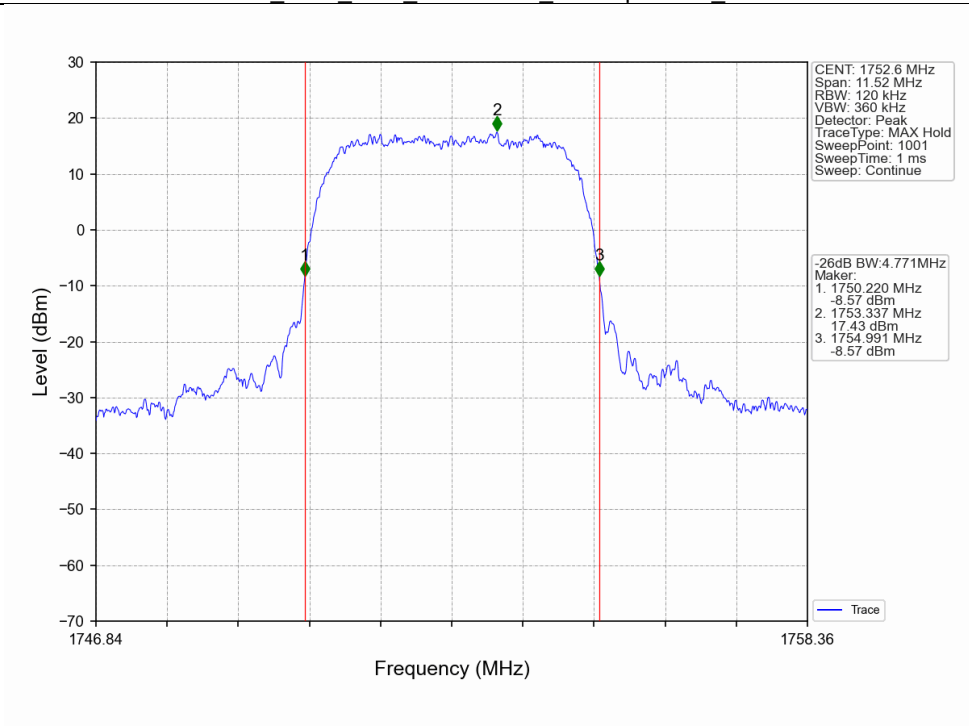


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# 4. Peak-Average Ratio

## 4.1 Band IV

### 4.1.1 Test Result

| Band IV | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | 2.95 | <=13 | Pass |
| | | | 1732.6 | 2.85 | <=13 | Pass |
| | | | 1752.6 | 2.99 | <=13 | Pass |

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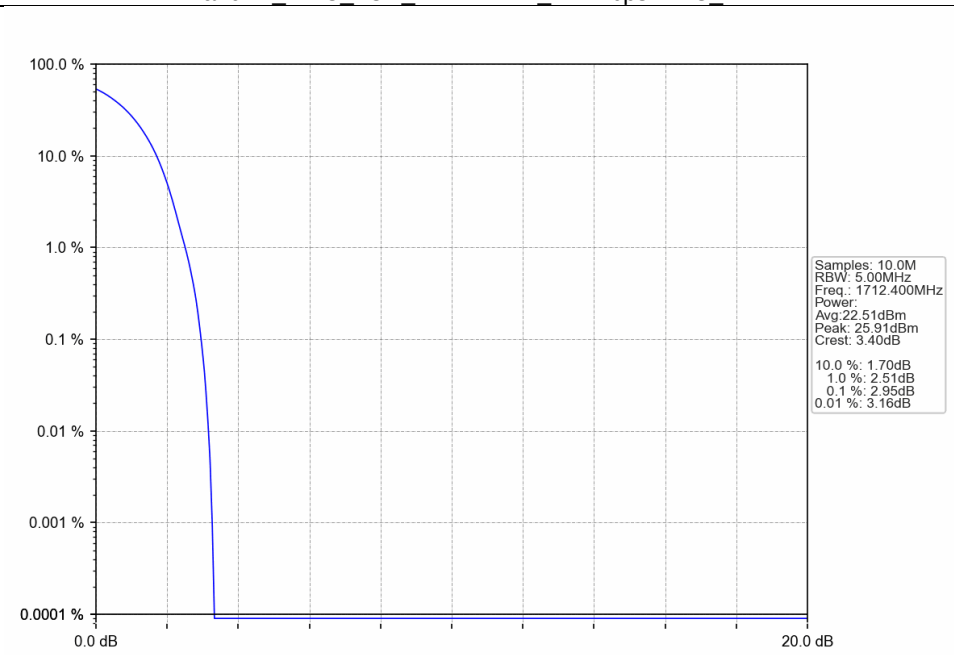
4.1.2 Test Graph

Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV




Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

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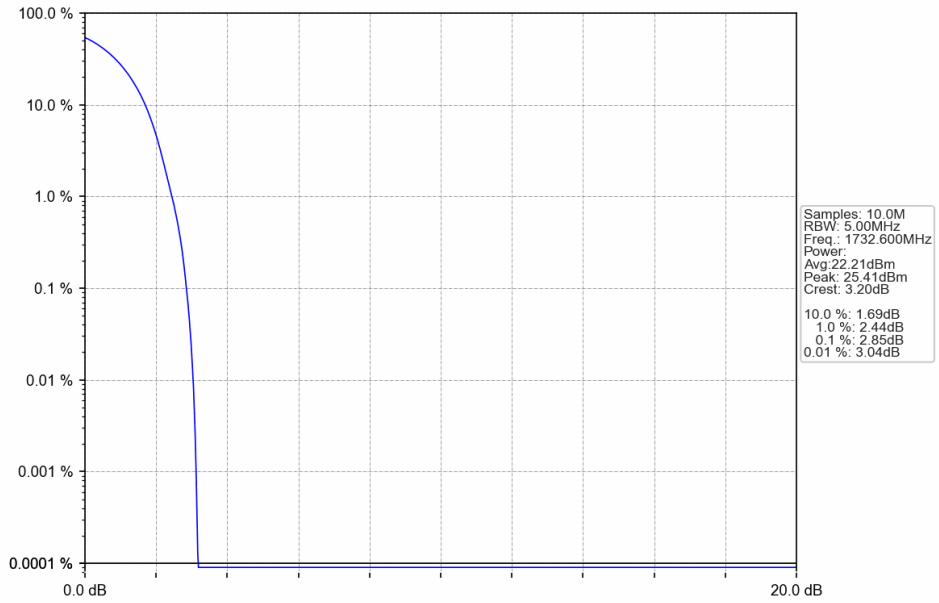


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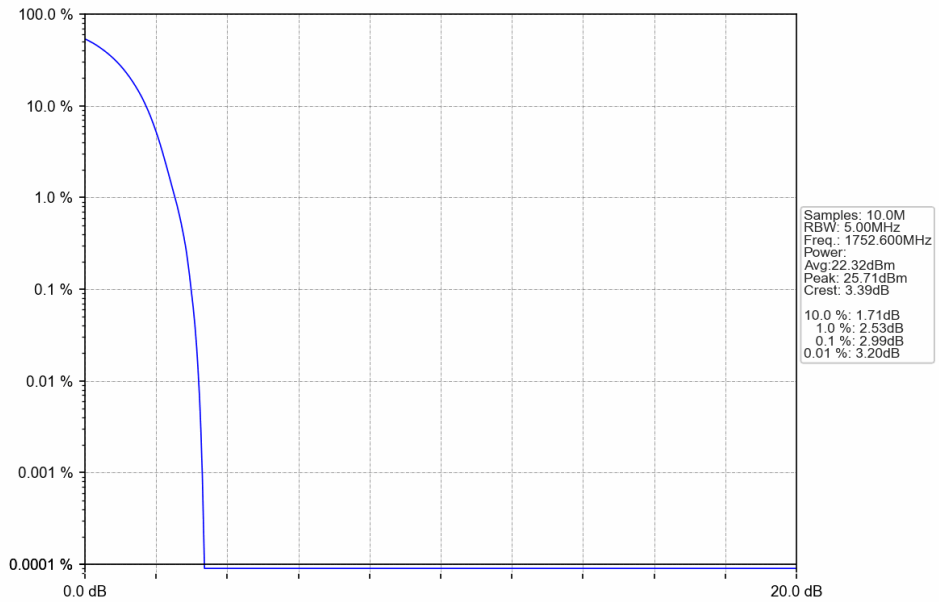


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# 5. Spurious Emission & Band Edges

## 5.1 Band IV

### 5.1.1 Test Result

| Band IV | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | Refer To Test Graph | | Pass |
| | | | 1732.6 | Refer To Test Graph | | Pass |
| | | | 1752.6 | Refer To Test Graph | | Pass |

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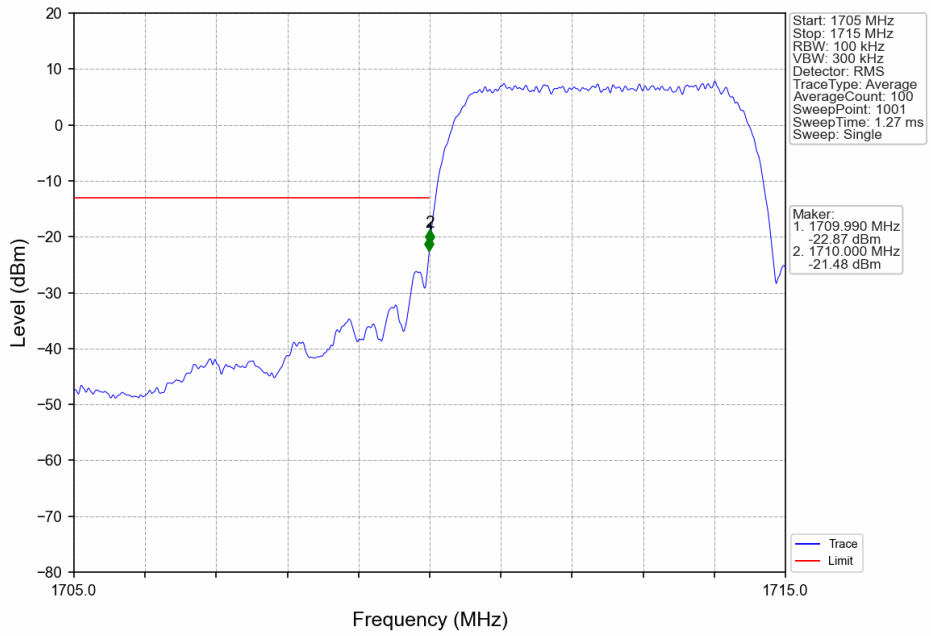


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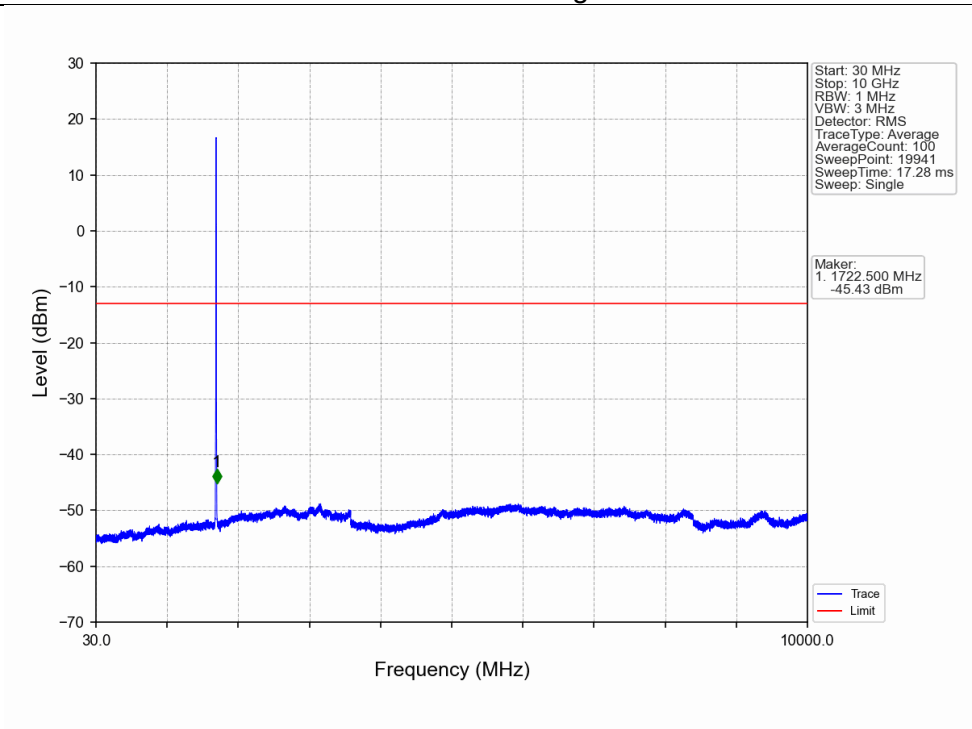


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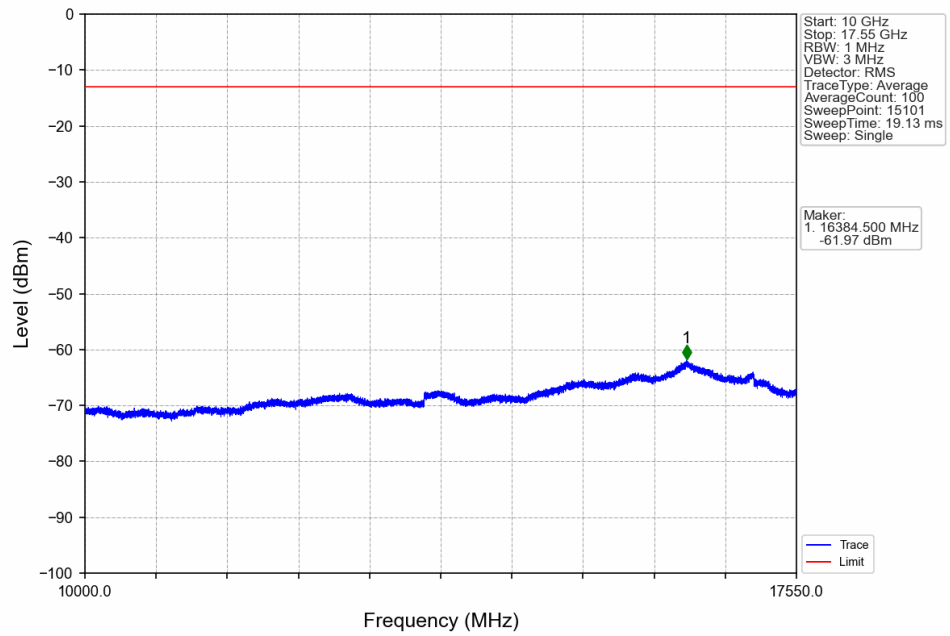


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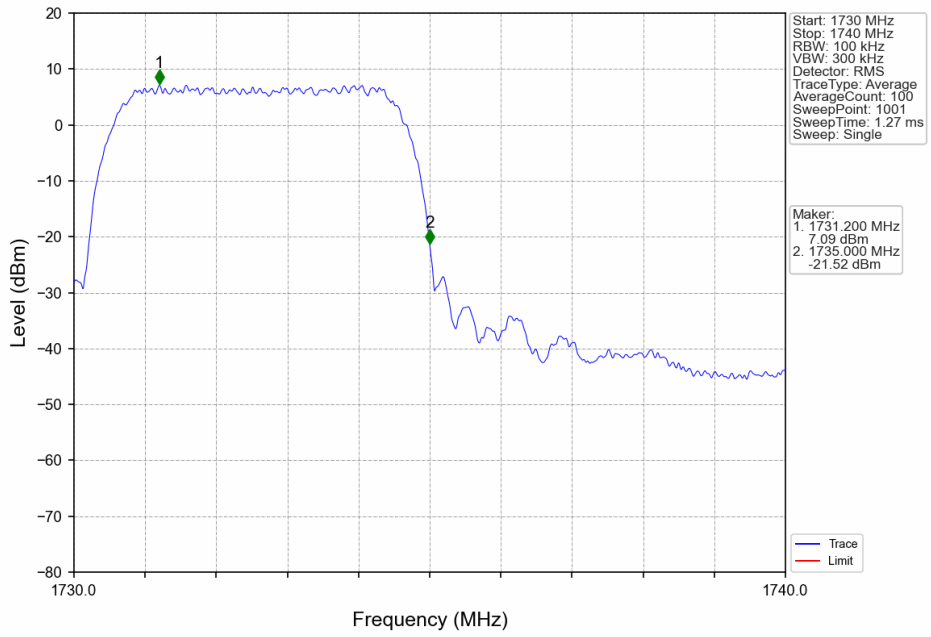


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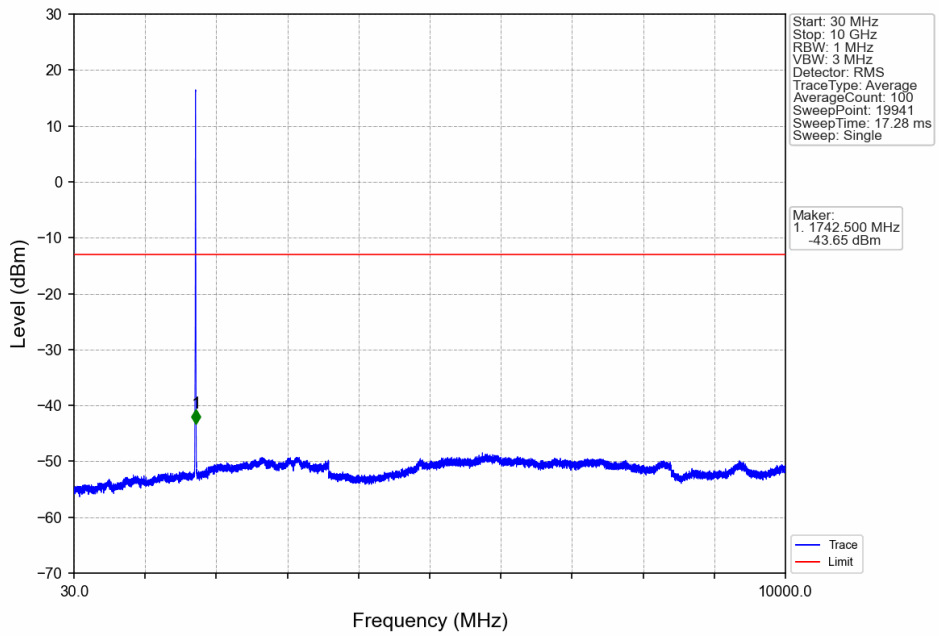


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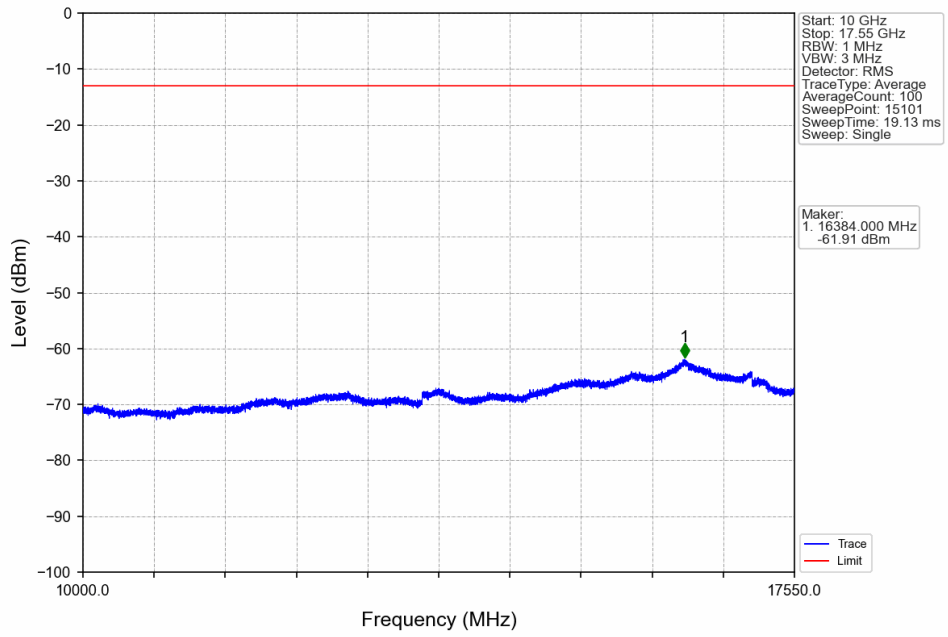


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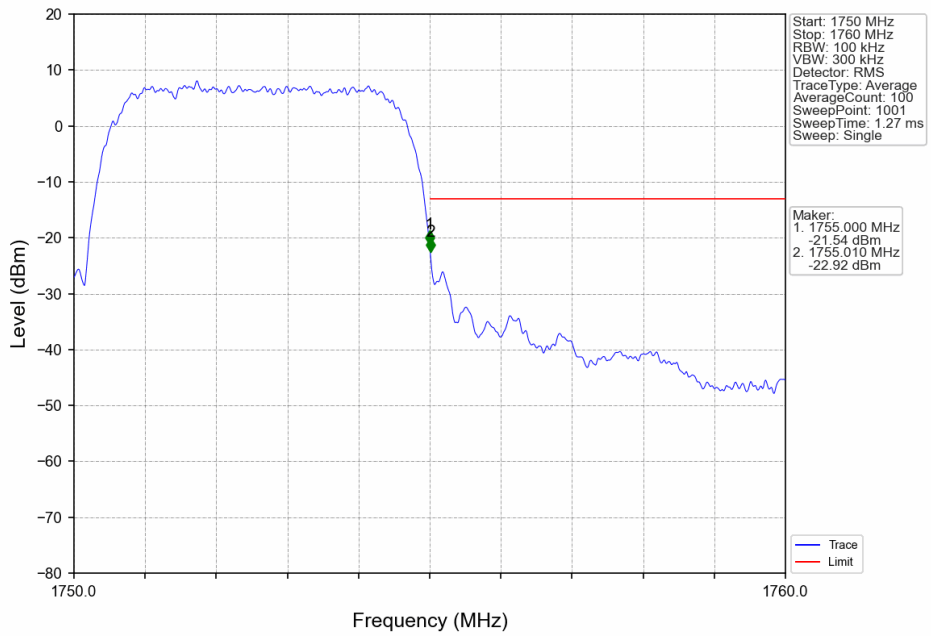


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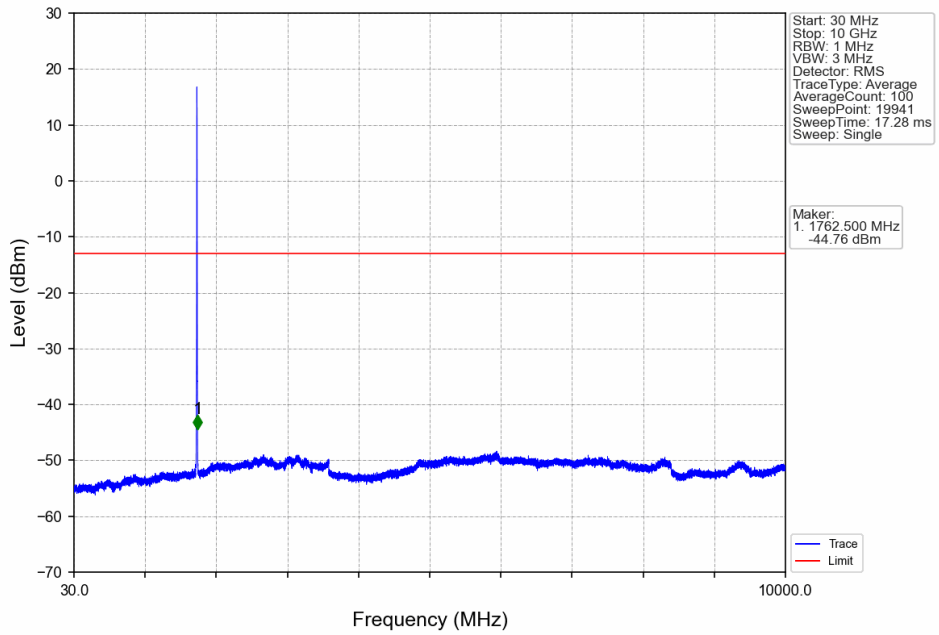


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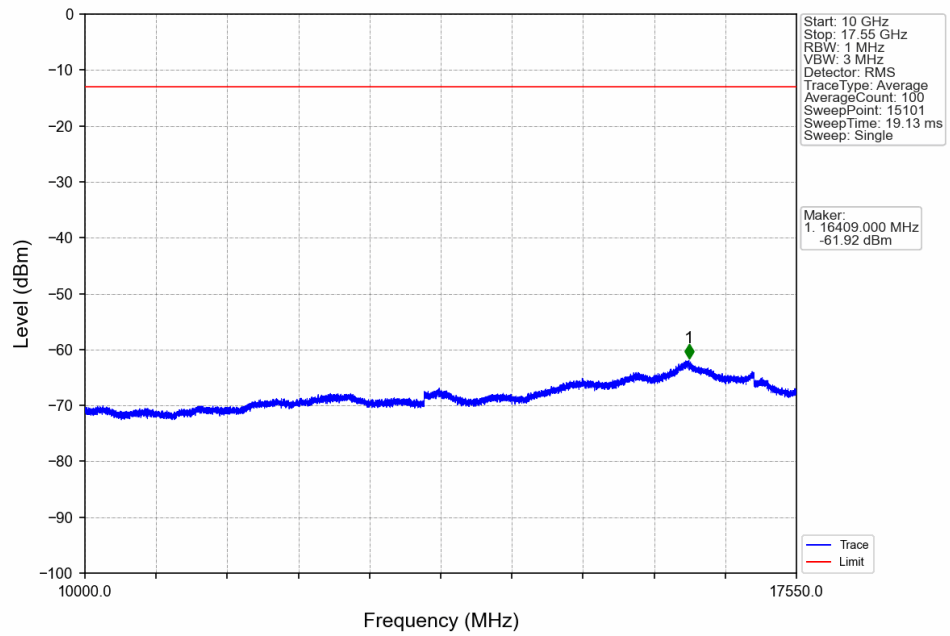
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

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# 6. Field Strength of Spurious Radiation

## For report SUCR240400009001:

**Test Band = WCDMA_ Band IV**
**Test Channel = LCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3621.7811 | 53.38 | -49.53 | 30.29 | -61.12 | -13.00 | 48.12 | Horizontal |
| 2 | 5140.607 | 52.03 | -47.23 | 33.58 | -56.88 | -13.00 | 43.88 | Horizontal |
| 3 | 7464.9732 | 50.12 | -43.49 | 36.67 | -51.96 | -13.00 | 38.96 | Horizontal |
| 4 | 9491.5746 | 49.11 | -40.66 | 39.17 | -47.64 | -13.00 | 34.64 | Horizontal |
| 5 | 14546.8273 | 46.15 | -35.24 | 40.55 | -43.80 | -13.00 | 30.80 | Horizontal |
| 6 | 17988.7494 | 48.48 | -38.97 | 42.73 | -43.02 | -13.00 | 30.02 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3617.2809 | 53.94 | -49.53 | 30.27 | -60.58 | -13.00 | 47.58 | Vertical |
| 2 | 5081.3541 | 51.86 | -47.47 | 33.46 | -57.41 | -13.00 | 44.41 | Vertical |
| 3 | 7830.9916 | 49.31 | -42.94 | 37.10 | -51.79 | -13.00 | 38.79 | Vertical |
| 4 | 9482.5741 | 49.16 | -40.75 | 39.13 | -47.72 | -13.00 | 34.72 | Vertical |
| 5 | 15023.1012 | 46.83 | -35.07 | 39.88 | -43.62 | -13.00 | 30.62 | Vertical |
| 6 | 17996.9998 | 48.52 | -38.99 | 42.78 | -42.95 | -13.00 | 29.95 | Vertical |

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**Test Band = WCDMA_ Band IV**
**Test Channel = MCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3735.7868 | 53.52 | -49.61 | 30.44 | -60.91 | -13.00 | 47.91 | Horizontal |
| 2 | 5150.3575 | 51.98 | -47.17 | 33.59 | -56.86 | -13.00 | 43.86 | Horizontal |
| 3 | 7365.9683 | 49.94 | -43.54 | 36.87 | -51.99 | -13.00 | 38.99 | Horizontal |
| 4 | 9488.5744 | 49.43 | -40.69 | 39.15 | -47.37 | -13.00 | 34.37 | Horizontal |
| 5 | 13403.0202 | 47.15 | -36.63 | 40.29 | -44.45 | -13.00 | 31.45 | Horizontal |
| 6 | 17999.25 | 48.41 | -38.99 | 42.80 | -43.04 | -13.00 | 30.04 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3629.2815 | 53.75 | -49.52 | 30.32 | -60.71 | -13.00 | 47.71 | Vertical |
| 2 | 5148.8574 | 51.90 | -47.19 | 33.60 | -56.95 | -13.00 | 43.95 | Vertical |
| 3 | 8068.0034 | 49.53 | -42.81 | 37.56 | -50.98 | -13.00 | 37.98 | Vertical |
| 4 | 9475.0738 | 50.03 | -40.83 | 39.10 | -46.96 | -13.00 | 33.96 | Vertical |
| 5 | 14999.85 | 46.48 | -34.77 | 39.90 | -43.65 | -13.00 | 30.65 | Vertical |
| 6 | 17905.4953 | 48.49 | -38.11 | 42.23 | -42.65 | -13.00 | 29.65 | Vertical |

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**Test Band = WCDMA_ Band IV**
**Test Channel = HCH**

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3615.7808 | 53.82 | -49.53 | 30.26 | -60.71 | -13.00 | 47.71 | Horizontal |
| 2 | 4350.0675 | 53.03 | -48.74 | 31.90 | -59.07 | -13.00 | 46.07 | Horizontal |
| 3 | 6618.1809 | 50.31 | -44.80 | 35.65 | -54.10 | -13.00 | 41.10 | Horizontal |
| 4 | 8544.2772 | 49.38 | -41.47 | 38.96 | -48.39 | -13.00 | 35.39 | Horizontal |
| 5 | 11187.4094 | 47.39 | -39.10 | 39.66 | -47.31 | -13.00 | 34.31 | Horizontal |
| 6 | 15032.8516 | 47.10 | -35.20 | 39.87 | -43.49 | -13.00 | 30.49 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3753.7877 | 53.71 | -49.47 | 30.50 | -60.52 | -13.00 | 47.52 | Vertical |
| 2 | 5105.3553 | 52.33 | -47.44 | 33.51 | -56.86 | -13.00 | 43.86 | Vertical |
| 3 | 7842.2421 | 50.18 | -42.85 | 37.10 | -50.83 | -13.00 | 37.83 | Vertical |
| 4 | 11374.1687 | 47.65 | -38.65 | 39.67 | -46.59 | -13.00 | 33.59 | Vertical |
| 5 | 15034.3517 | 47.21 | -35.22 | 39.87 | -43.40 | -13.00 | 30.40 | Vertical |
| 6 | 17998.4999 | 48.36 | -38.99 | 42.79 | -43.10 | -13.00 | 30.10 | 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 IV _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 | 3501 | 47.73 | -44.38 | 29.10 | -62.81 | -13.00 | 49.81 | Horizontal |
| 2 | 5169.5 | 46.04 | -42.11 | 31.84 | -59.49 | -13.00 | 46.49 | Horizontal |
| 3 | 7406 | 43.85 | -37.97 | 36.71 | -52.67 | -13.00 | 39.67 | Horizontal |
| 4 | 10745.5 | 42.42 | -34.91 | 39.55 | -48.20 | -13.00 | 35.20 | Horizontal |
| 5 | 13857.5 | 42.94 | -34.08 | 40.73 | -45.67 | -13.00 | 32.67 | Horizontal |
| 6 | 17989 | 40.13 | -39.76 | 48.00 | -46.89 | -13.00 | 33.89 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3654.5 | 47.26 | -44.30 | 29.30 | -63.00 | -13.00 | 50.00 | Vertical |
| 2 | 5594 | 45.81 | -41.51 | 32.55 | -58.41 | -13.00 | 45.41 | Vertical |
| 3 | 8581.5 | 42.31 | -36.27 | 36.54 | -52.68 | -13.00 | 39.68 | Vertical |
| 4 | 11531 | 43.19 | -34.58 | 40.23 | -46.42 | -13.00 | 33.42 | Vertical |
| 5 | 14806 | 41.36 | -32.53 | 41.56 | -44.87 | -13.00 | 31.87 | Vertical |
| 6 | 17988 | 40.26 | -39.76 | 47.98 | -46.78 | -13.00 | 33.78 | Vertical |

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**Test Band = WCDMA_ Band IV _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 | 3588 | 47.34 | -44.36 | 28.92 | -63.36 | -13.00 | 50.36 | Horizontal |
| 2 | 5215 | 45.79 | -41.99 | 31.81 | -59.65 | -13.00 | 46.65 | Horizontal |
| 3 | 7432.5 | 43.63 | -37.82 | 36.77 | -52.68 | -13.00 | 39.68 | Horizontal |
| 4 | 10881.5 | 43.48 | -34.46 | 40.09 | -46.15 | -13.00 | 33.15 | Horizontal |
| 5 | 14862.5 | 41.95 | -32.71 | 41.23 | -44.79 | -13.00 | 31.79 | Horizontal |
| 6 | 17984.5 | 41.08 | -39.76 | 47.92 | -46.02 | -13.00 | 33.02 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3464 | 48.09 | -44.31 | 28.96 | -62.52 | -13.00 | 49.52 | Vertical |
| 2 | 5197 | 45.75 | -42.00 | 31.89 | -59.62 | -13.00 | 46.62 | Vertical |
| 3 | 7988 | 42.91 | -36.85 | 36.40 | -52.80 | -13.00 | 39.80 | Vertical |
| 4 | 11508.5 | 43.61 | -34.61 | 40.21 | -46.05 | -13.00 | 33.05 | Vertical |
| 5 | 14801.5 | 41.35 | -32.49 | 41.59 | -44.81 | -13.00 | 31.81 | Vertical |
| 6 | 16905 | 40.28 | -31.98 | 40.26 | -46.70 | -13.00 | 33.70 | Vertical |

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**Test Band = WCDMA_ Band IV _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 | 3395.5 | 47.67 | -44.32 | 28.60 | -63.31 | -13.00 | 50.31 | Horizontal |
| 2 | 5382.5 | 45.61 | -41.82 | 32.40 | -59.07 | -13.00 | 46.07 | Horizontal |
| 3 | 7651 | 43.89 | -37.46 | 36.60 | -52.23 | -13.00 | 39.23 | Horizontal |
| 4 | 11541 | 43.58 | -34.56 | 40.24 | -46.00 | -13.00 | 33.00 | Horizontal |
| 5 | 14813.5 | 41.87 | -32.59 | 41.52 | -44.46 | -13.00 | 31.46 | Horizontal |
| 6 | 17992 | 40.44 | -39.76 | 48.06 | -46.52 | -13.00 | 33.52 | Horizontal |

| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3507 | 48.35 | -44.39 | 29.09 | -62.21 | -13.00 | 49.21 | Vertical |
| 2 | 5203.5 | 46.16 | -41.99 | 31.88 | -59.21 | -13.00 | 46.21 | Vertical |
| 3 | 7435.5 | 43.79 | -37.80 | 36.77 | -52.50 | -13.00 | 39.50 | Vertical |
| 4 | 11038 | 42.61 | -34.18 | 40.14 | -46.69 | -13.00 | 33.69 | Vertical |
| 5 | 13294 | 42.86 | -32.99 | 39.88 | -45.51 | -13.00 | 32.51 | Vertical |
| 6 | 16600 | 41.19 | -30.91 | 39.50 | -45.48 | -13.00 | 32.48 | 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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