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# Appendix B.3

## WCDMA Band IV



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**Effective (Isotropic) Radiated Power Output Data**

Band IV\_EIRP Ant1

**Test Result**

| Band IV |         |              |                    |                          |               |            |       |         |
|---------|---------|--------------|--------------------|--------------------------|---------------|------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Conducted Power<br>(dBm) | Gain<br>(dBi) | EIRP (dBm) |       | Verdict |
|         | Network | Subset       |                    |                          |               | Result     | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4             | 22.36                    | 1.10          | 23.46      | <=30  | Pass    |
|         |         |              | 1732.6             | 22.41                    | 1.10          | 23.51      | <=30  | Pass    |
|         |         |              | 1752.6             | 22.23                    | 1.10          | 23.33      | <=30  | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain



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## Peak-Average Ratio

Band IV

Test Result

| Band IV |         |              |                    |                         |       |         |
|---------|---------|--------------|--------------------|-------------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|         | Network | Subset       |                    | Result                  | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4             | 2.66                    | <=13  | Pass    |
|         |         |              | 1732.6             | 2.68                    | <=13  | Pass    |
|         |         |              | 1752.6             | 2.62                    | <=13  | Pass    |



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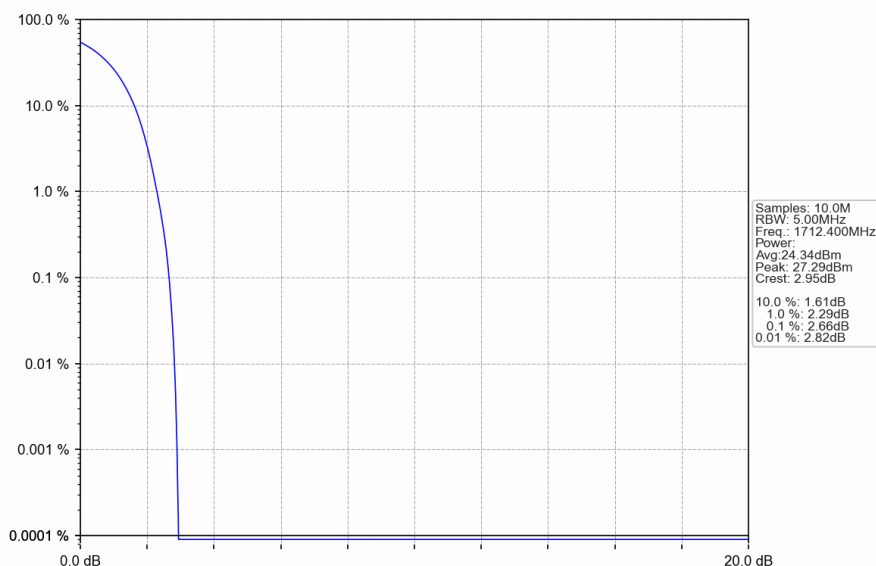
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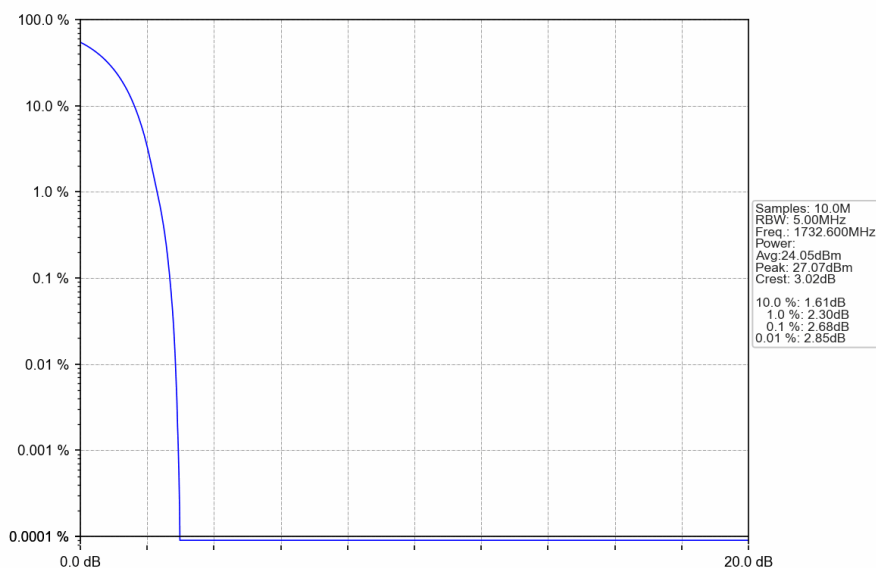
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### Test Graph

Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



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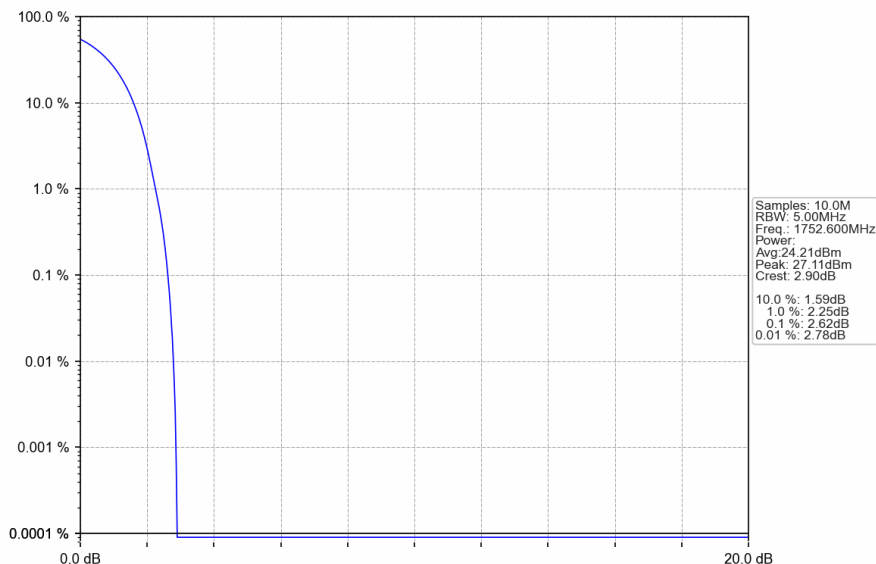
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## 99% & 26dB Bandwidth

Band IV\_OBW

### Test Result

| Band IV |         |              |                    |                              |       |         |
|---------|---------|--------------|--------------------|------------------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                    | Result                       | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4             | 4.182                        | /     | Pass    |
|         |         |              | 1732.6             | 4.172                        | /     | Pass    |
|         |         |              | 1752.6             | 4.169                        | /     | Pass    |



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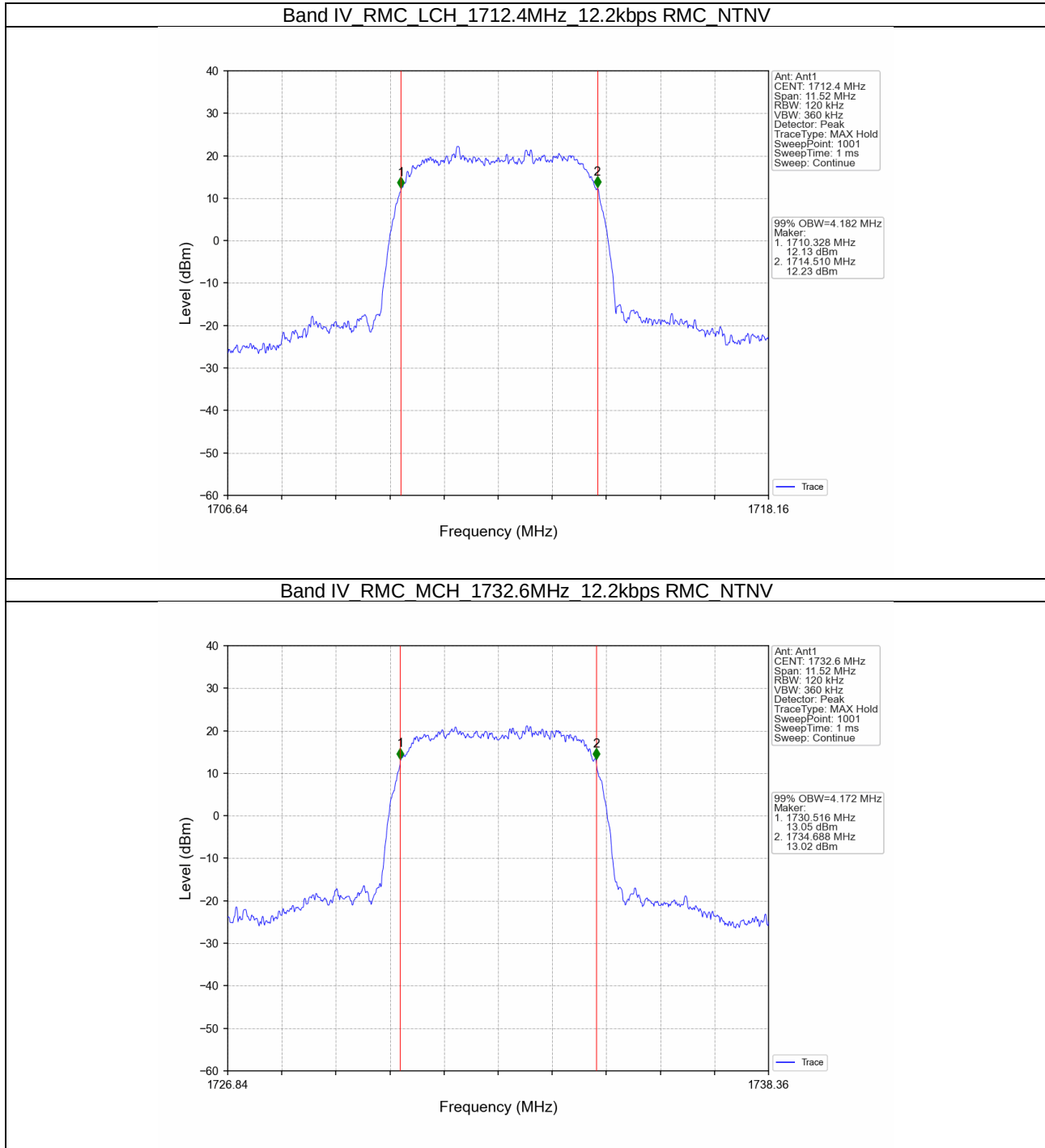
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### Test Graph



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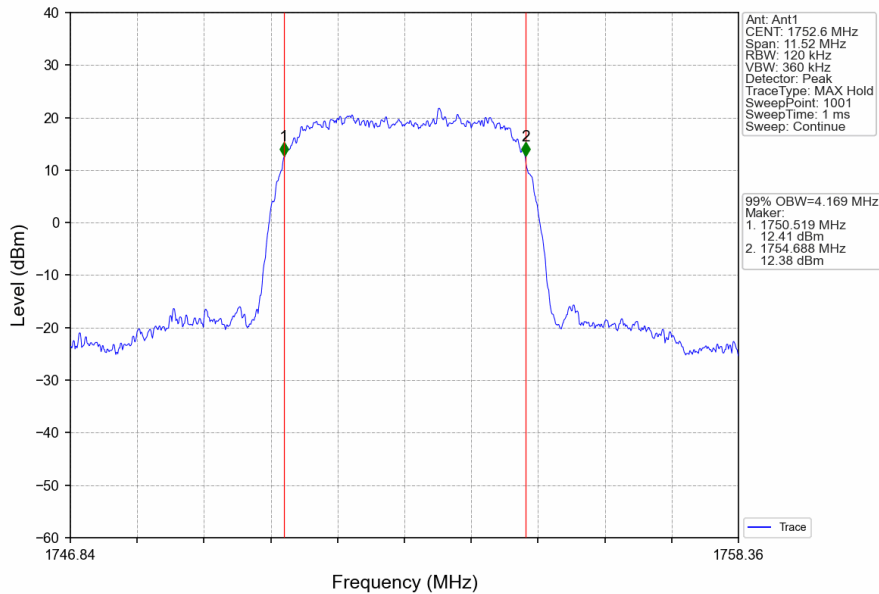
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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Band IV\_XDB

## Test Result

| Band IV |         |              |                    |                      |       |         |
|---------|---------|--------------|--------------------|----------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                    | Result               | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4             | 4.756                | /     | Pass    |
|         |         |              | 1732.6             | 4.779                | /     | Pass    |
|         |         |              | 1752.6             | 4.777                | /     | Pass    |



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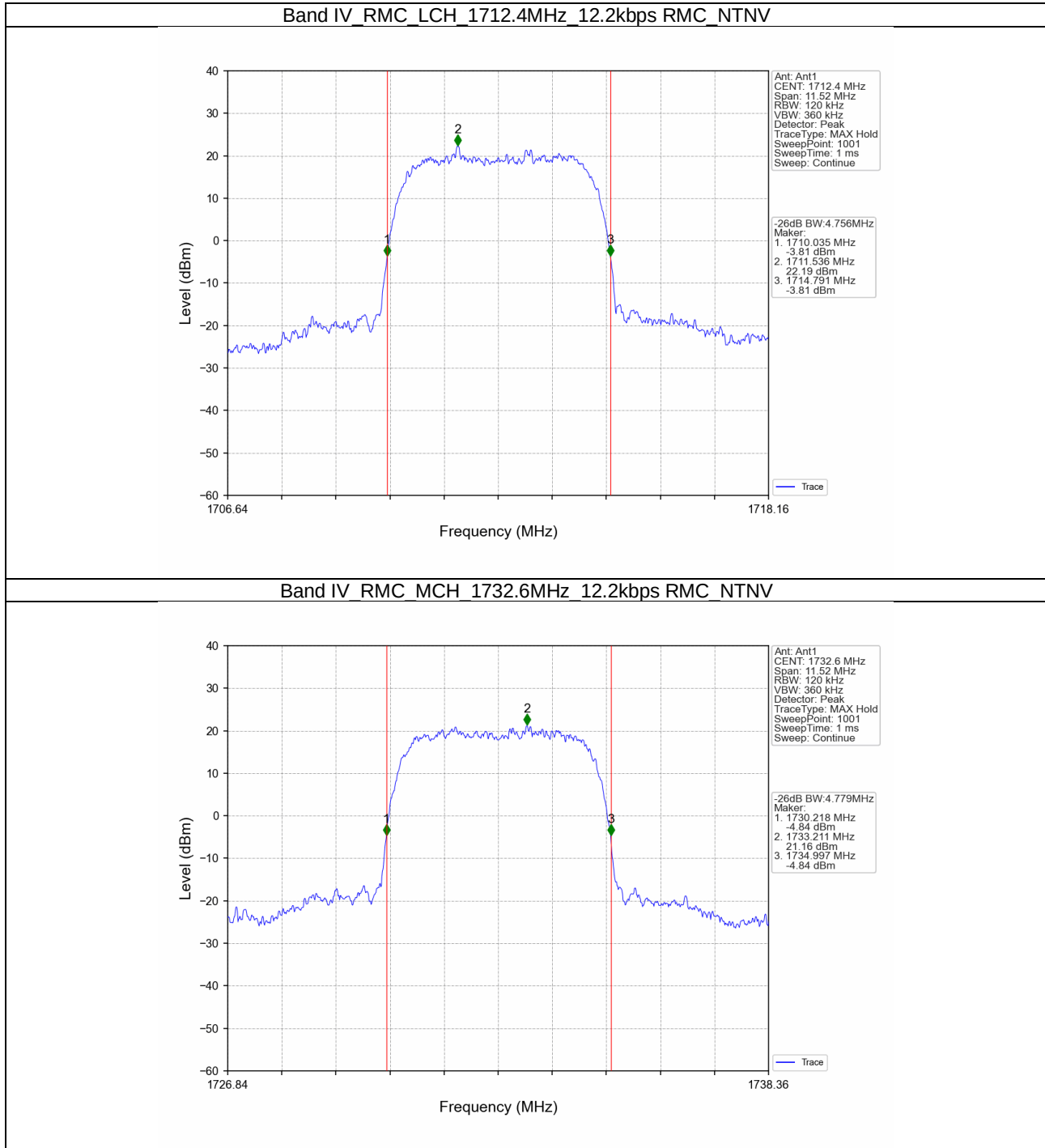
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### Test Graph



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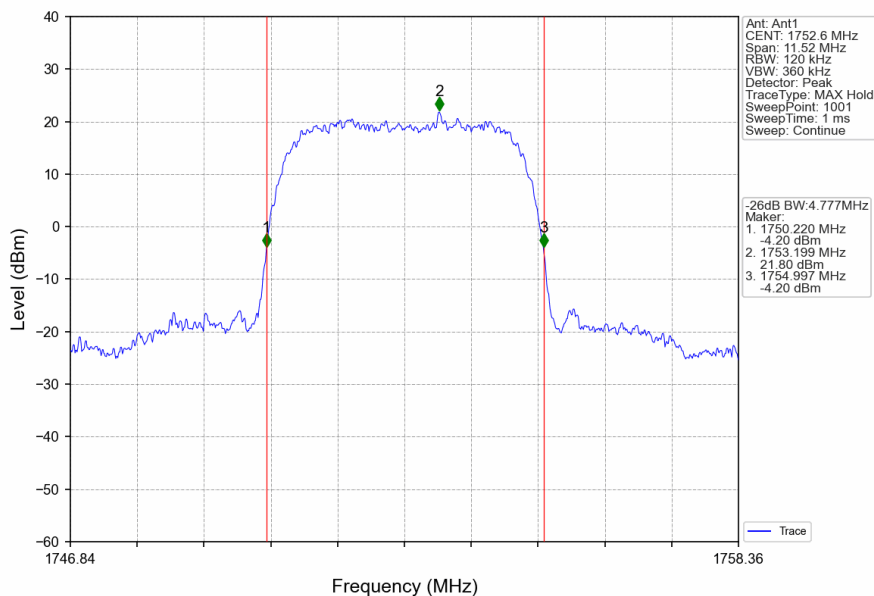
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## Spurious Emission & Band Edge

### Band IV

### Test Result

| Band IV |         |              |                    |                     |       |         |
|---------|---------|--------------|--------------------|---------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(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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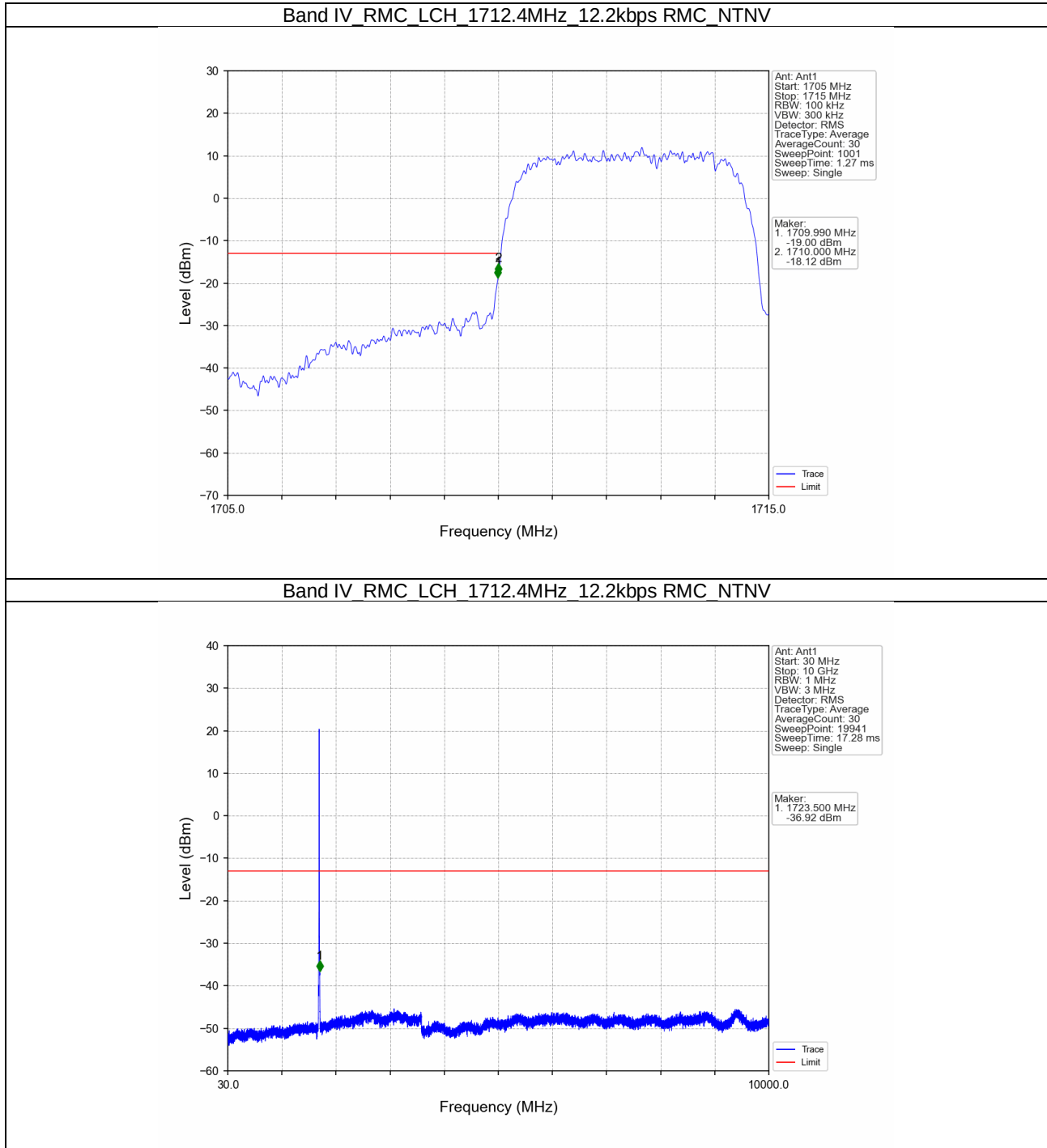
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### Test Graph



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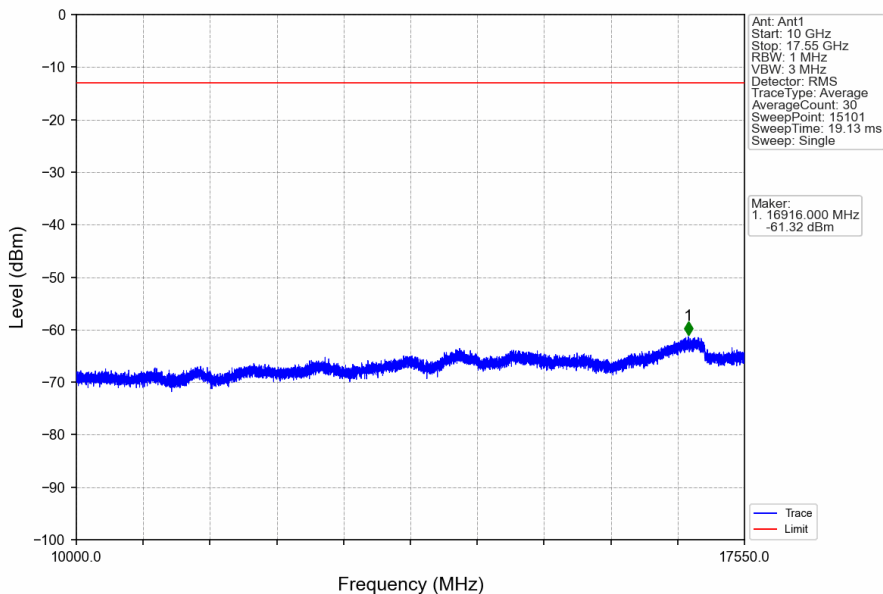
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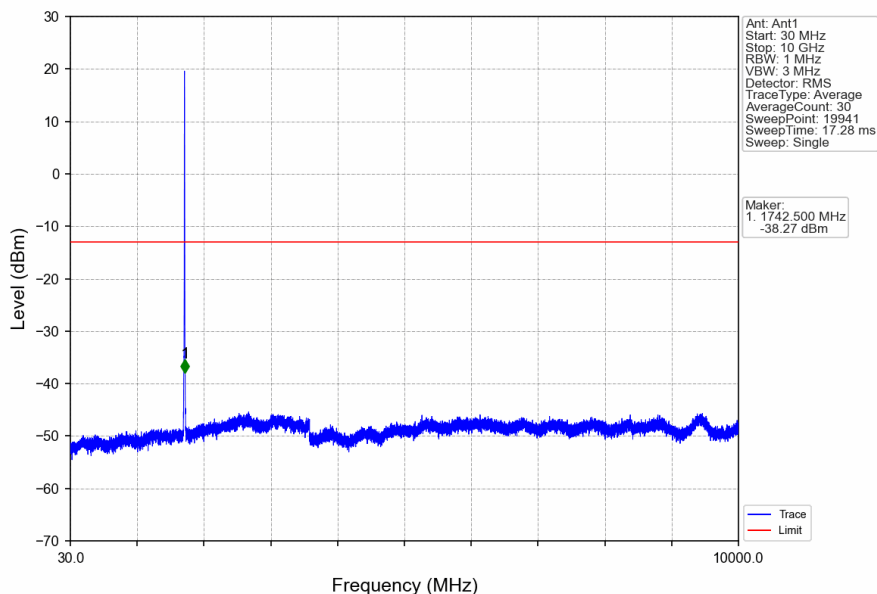
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Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



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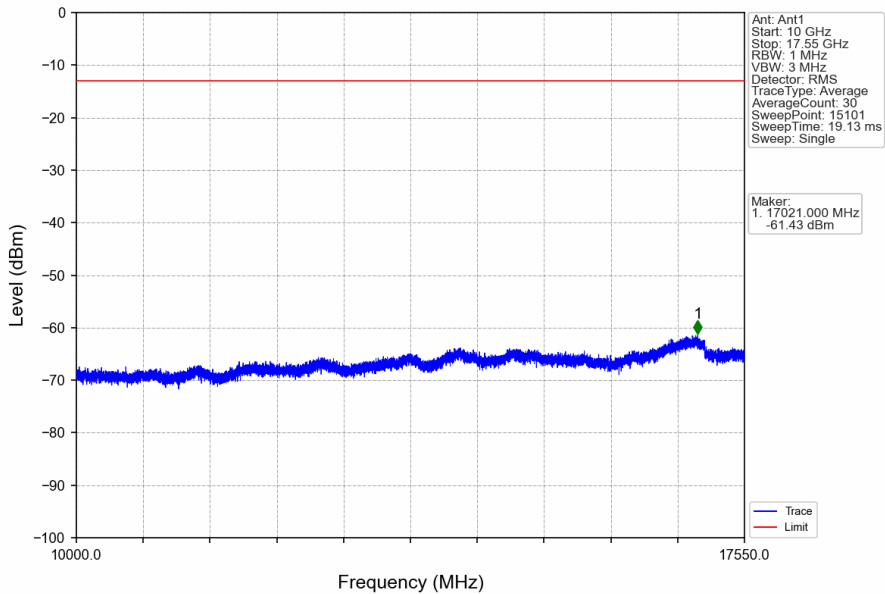
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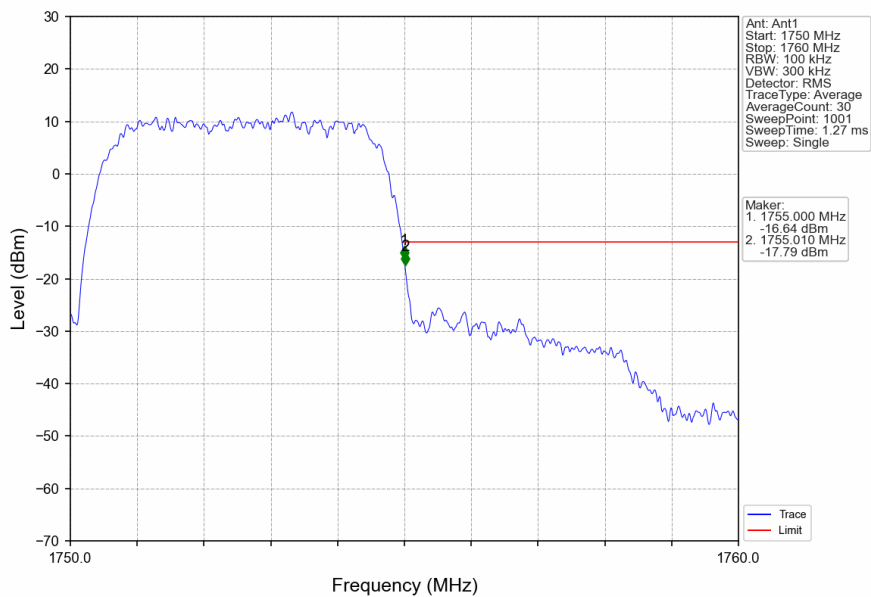
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### Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



### Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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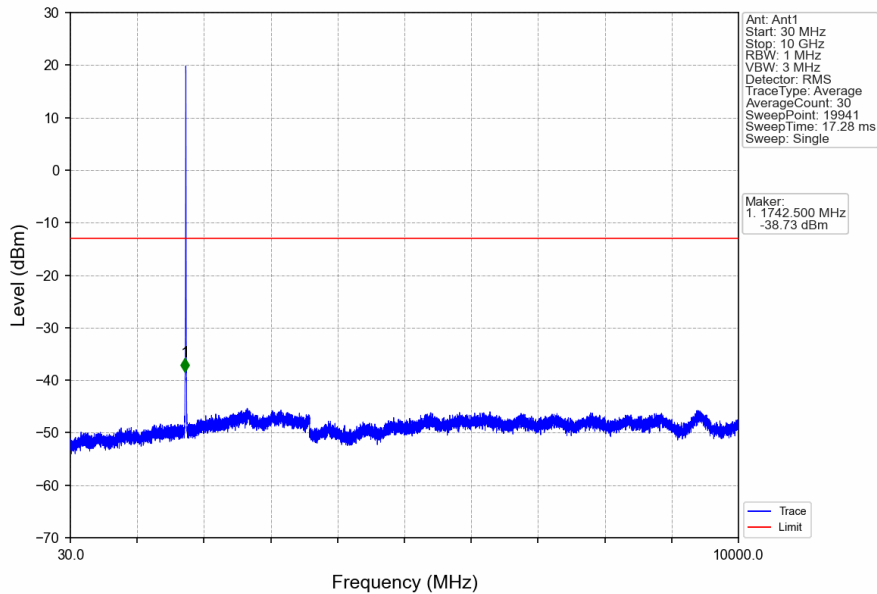
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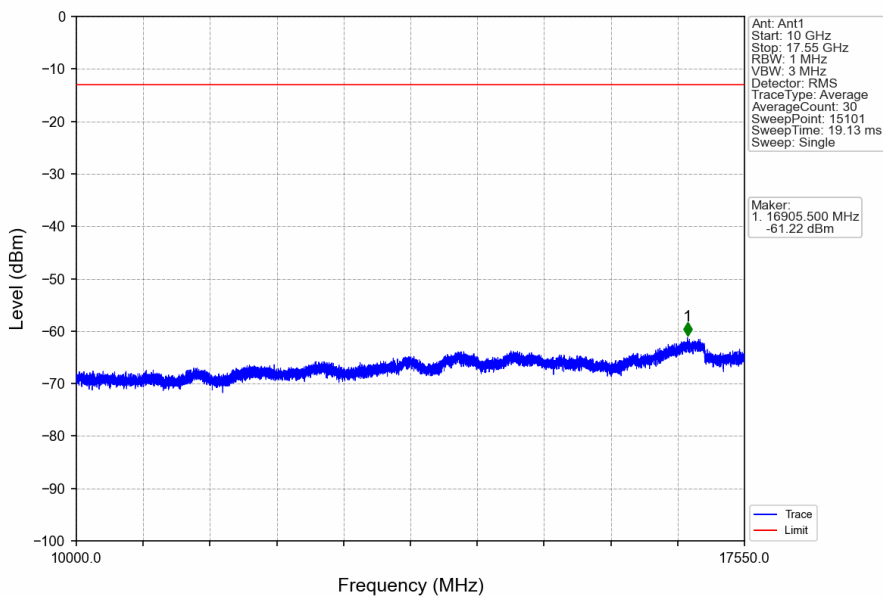
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## Field Strength of Spurious Radiation

**Test Band = WCDMA Band IV\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3424.8          | 35.57          | -43.25      | 29.59    | -73.36      | -13.00      | 60.36       | Horizontal |
| 2               | 5137.2          | 34.03          | -41.10      | 33.17    | -69.16      | -13.00      | 56.16       | Horizontal |
| 3               | 6849.6          | 31.85          | -38.40      | 35.94    | -65.87      | -13.00      | 52.87       | Horizontal |
| 4               | 8562            | 30.40          | -35.32      | 37.38    | -62.80      | -13.00      | 49.80       | Horizontal |
| 5               | 10274.4         | 29.02          | -32.18      | 38.04    | -60.38      | -13.00      | 47.38       | Horizontal |
| 6               | 11986.8         | 27.14          | -29.64      | 38.40    | -59.36      | -13.00      | 46.36       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3424.8          | 34.46          | -43.25      | 29.59    | -74.47      | -13.00      | 61.47       | Vertical |
| 2               | 5137.2          | 32.71          | -41.10      | 33.17    | -70.48      | -13.00      | 57.48       | Vertical |
| 3               | 6849.6          | 32.41          | -38.40      | 35.94    | -65.31      | -13.00      | 52.31       | Vertical |
| 4               | 8562            | 30.88          | -35.32      | 37.38    | -62.32      | -13.00      | 49.32       | Vertical |
| 5               | 10274.4         | 29.46          | -32.18      | 38.04    | -59.94      | -13.00      | 46.94       | Vertical |
| 6               | 11986.8         | 28.22          | -29.64      | 38.40    | -58.28      | -13.00      | 45.28       | Vertical |



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Test Band = WCDMA Band IV\_ TM1

Test Channel = Mid Channel

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3465.2          | 35.22          | -43.16      | 29.59    | -73.61      | -13.00      | 60.61       | Horizontal |
| 2               | 5197.8          | 33.87          | -40.82      | 33.16    | -69.05      | -13.00      | 56.05       | Horizontal |
| 3               | 6930.4          | 33.05          | -38.35      | 35.97    | -64.58      | -13.00      | 51.58       | Horizontal |
| 4               | 8663            | 29.31          | -35.33      | 37.43    | -63.85      | -13.00      | 50.85       | Horizontal |
| 5               | 10395.6         | 27.81          | -31.48      | 38.10    | -60.83      | -13.00      | 47.83       | Horizontal |
| 6               | 12128.2         | 28.10          | -29.39      | 38.55    | -57.99      | -13.00      | 44.99       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3465.2          | 35.88          | -43.16      | 29.59    | -72.95      | -13.00      | 59.95       | Vertical |
| 2               | 5197.8          | 33.41          | -40.82      | 33.16    | -69.51      | -13.00      | 56.51       | Vertical |
| 3               | 6930.4          | 32.82          | -38.35      | 35.97    | -64.81      | -13.00      | 51.81       | Vertical |
| 4               | 8663            | 30.41          | -35.33      | 37.43    | -62.75      | -13.00      | 49.75       | Vertical |
| 5               | 10395.6         | 28.46          | -31.48      | 38.10    | -60.18      | -13.00      | 47.18       | Vertical |
| 6               | 12128.2         | 27.98          | -29.39      | 38.55    | -58.11      | -13.00      | 45.11       | Vertical |



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Test Band = WCDMA Band IV\_ TM1

Test Channel = High Channel

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3505.2          | 35.54          | -43.06      | 29.62    | -73.16      | -13.00      | 60.16       | Horizontal |
| 2               | 5257.8          | 33.07          | -40.87      | 33.15    | -69.91      | -13.00      | 56.91       | Horizontal |
| 3               | 7010.4          | 32.47          | -38.35      | 36.01    | -65.13      | -13.00      | 52.13       | Horizontal |
| 4               | 8763            | 30.17          | -35.10      | 37.48    | -62.70      | -13.00      | 49.70       | Horizontal |
| 5               | 10515.6         | 28.09          | -31.20      | 38.16    | -60.21      | -13.00      | 47.21       | Horizontal |
| 6               | 12268.2         | 27.62          | -29.90      | 38.72    | -58.82      | -13.00      | 45.82       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3505.2          | 34.53          | -43.06      | 29.62    | -74.17      | -13.00      | 61.17       | Vertical |
| 2               | 5257.8          | 33.41          | -40.87      | 33.15    | -69.57      | -13.00      | 56.57       | Vertical |
| 3               | 7010.4          | 32.61          | -38.35      | 36.01    | -64.99      | -13.00      | 51.99       | Vertical |
| 4               | 8763            | 29.80          | -35.10      | 37.48    | -63.07      | -13.00      | 50.07       | Vertical |
| 5               | 10515.6         | 27.87          | -31.20      | 38.16    | -60.43      | -13.00      | 47.43       | Vertical |
| 6               | 12268.2         | 27.77          | -29.90      | 38.72    | -58.67      | -13.00      | 45.67       | 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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## Frequency Stability

### Band IV

### 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         | 3.4           | 0.730            | 0.0004                | /     | Pass    |
|         |                 |            | 3.89          | 0.443            | 0.0003                | /     | Pass    |
|         |                 |            | 4.48          | 0.908            | 0.0005                | /     | Pass    |
|         |                 | -30        | 3.89          | 1.016            | 0.0006                | /     | Pass    |
|         |                 | -20        | 3.89          | 0.293            | 0.0002                | /     | Pass    |
|         |                 | -10        | 3.89          | 1.817            | 0.0011                | /     | Pass    |
|         |                 | 0          | 3.89          | 1.802            | 0.0011                | /     | Pass    |
|         |                 | 10         | 3.89          | 2.103            | 0.0012                | /     | Pass    |
|         |                 | 30         | 3.89          | 1.853            | 0.0011                | /     | Pass    |
|         |                 | 40         | 3.89          | 3.748            | 0.0022                | /     | Pass    |
|         |                 | 50         | 3.89          | 3.541            | 0.0021                | /     | Pass    |
|         | 1732.6          | 20         | 3.4           | -2.325           | -0.0013               | /     | Pass    |
|         |                 |            | 3.89          | -4.170           | -0.0024               | /     | Pass    |
|         |                 |            | 4.48          | -2.632           | -0.0015               | /     | Pass    |
|         |                 | -30        | 3.89          | -2.789           | -0.0016               | /     | Pass    |
|         |                 | -20        | 3.89          | -2.589           | -0.0015               | /     | Pass    |
|         |                 | -10        | 3.89          | -2.317           | -0.0013               | /     | Pass    |
|         |                 | 0          | 3.89          | -2.332           | -0.0013               | /     | Pass    |
|         |                 | 10         | 3.89          | -3.026           | -0.0017               | /     | Pass    |
|         |                 | 30         | 3.89          | -2.596           | -0.0015               | /     | Pass    |
|         |                 | 40         | 3.89          | -2.975           | -0.0017               | /     | Pass    |
|         |                 | 50         | 3.89          | -2.775           | -0.0016               | /     | Pass    |
|         | 1752.6          | 20         | 3.4           | -3.376           | -0.0019               | /     | Pass    |
|         |                 |            | 3.89          | -1.702           | -0.0010               | /     | Pass    |
|         |                 |            | 4.48          | -3.333           | -0.0019               | /     | Pass    |
|         |                 | -30        | 3.89          | -2.825           | -0.0016               | /     | Pass    |
|         |                 | -20        | 3.89          | -2.074           | -0.0012               | /     | Pass    |
|         |                 | -10        | 3.89          | -2.697           | -0.0015               | /     | Pass    |
|         |                 | 0          | 3.89          | -2.203           | -0.0013               | /     | Pass    |
|         |                 | 10         | 3.89          | -1.960           | -0.0011               | /     | Pass    |
|         |                 | 30         | 3.89          | -2.410           | -0.0014               | /     | Pass    |
|         |                 | 40         | 3.89          | -1.996           | -0.0011               | /     | Pass    |
|         |                 | 50         | 3.89          | -2.024           | -0.0012               | /     | Pass    |

---End of Attachment---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

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