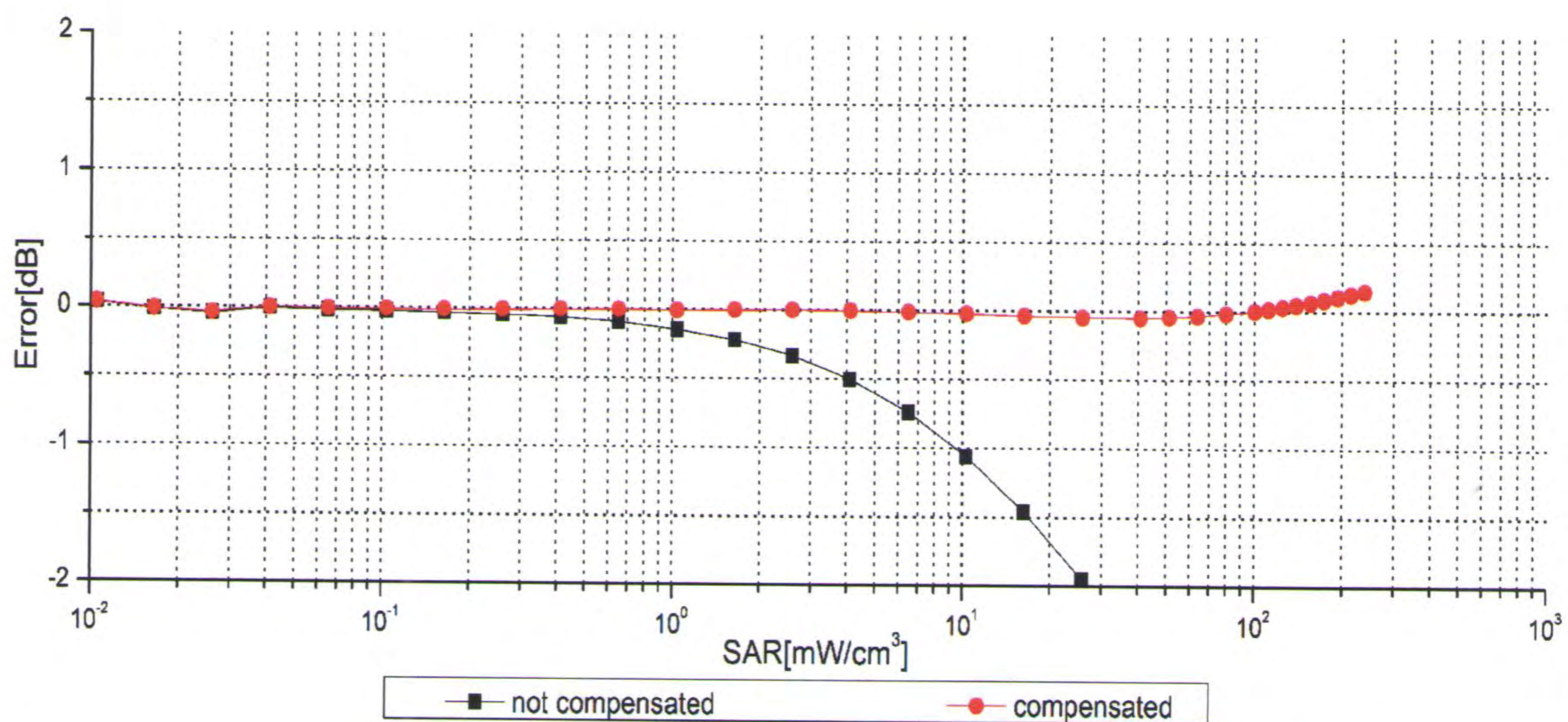
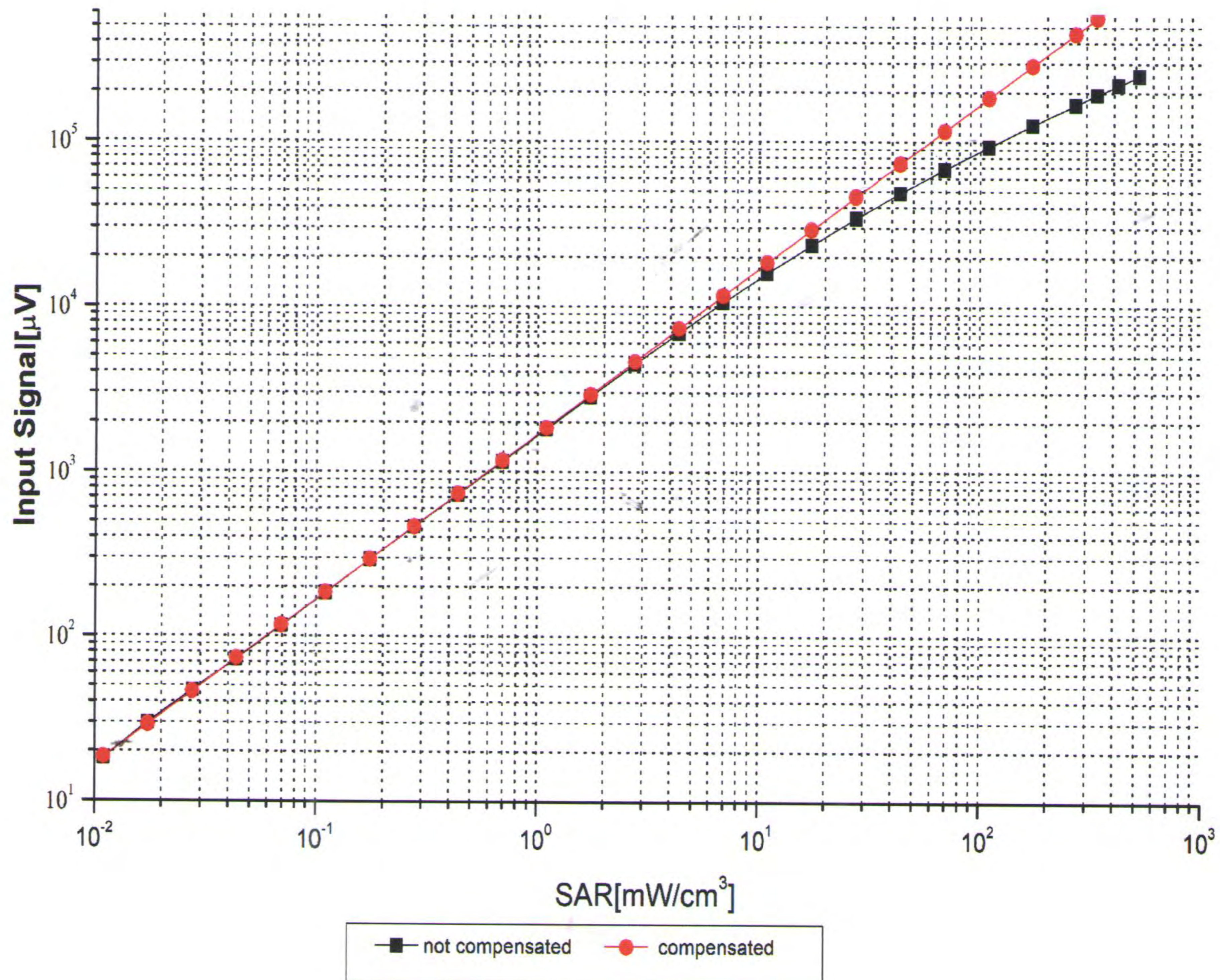




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## Dynamic Range f(SAR<sub>head</sub>) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment:  $\pm 0.9\%$  (k=2)



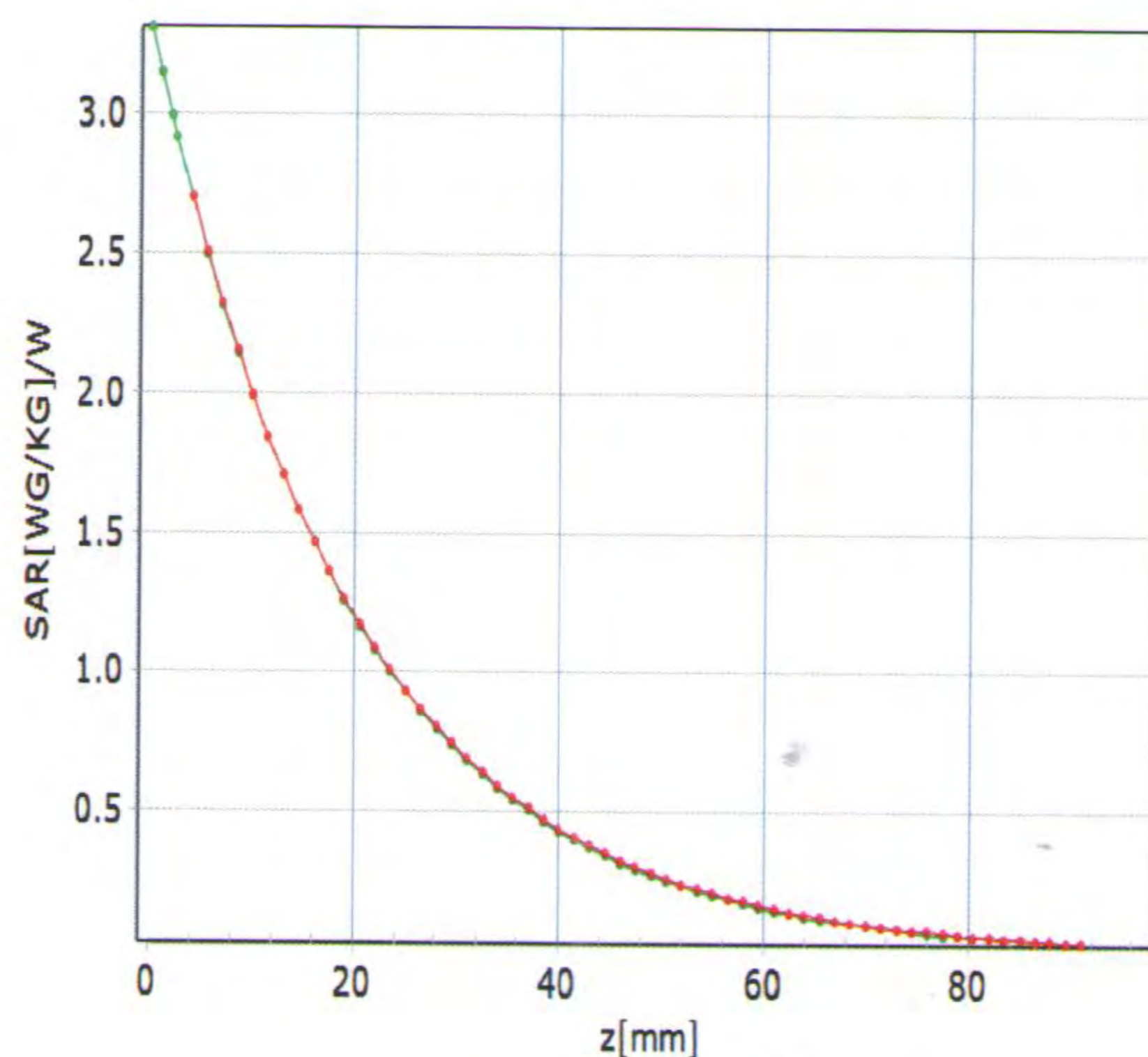
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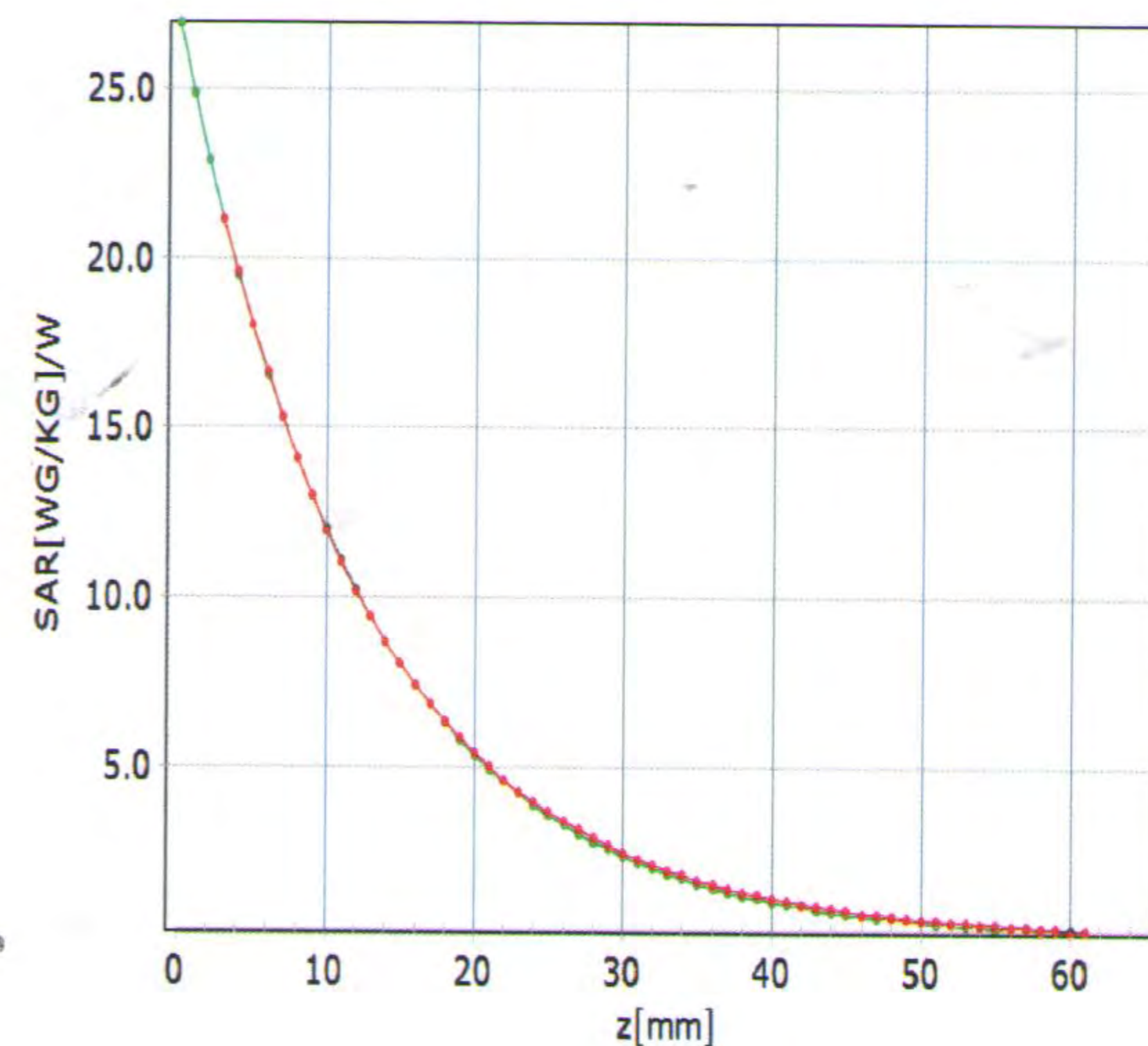
## Conversion Factor Assessment

**f=835 MHz,WGLS R9(H\_convF)**

**f=1750 MHz,WGLS R22(H\_convF)**

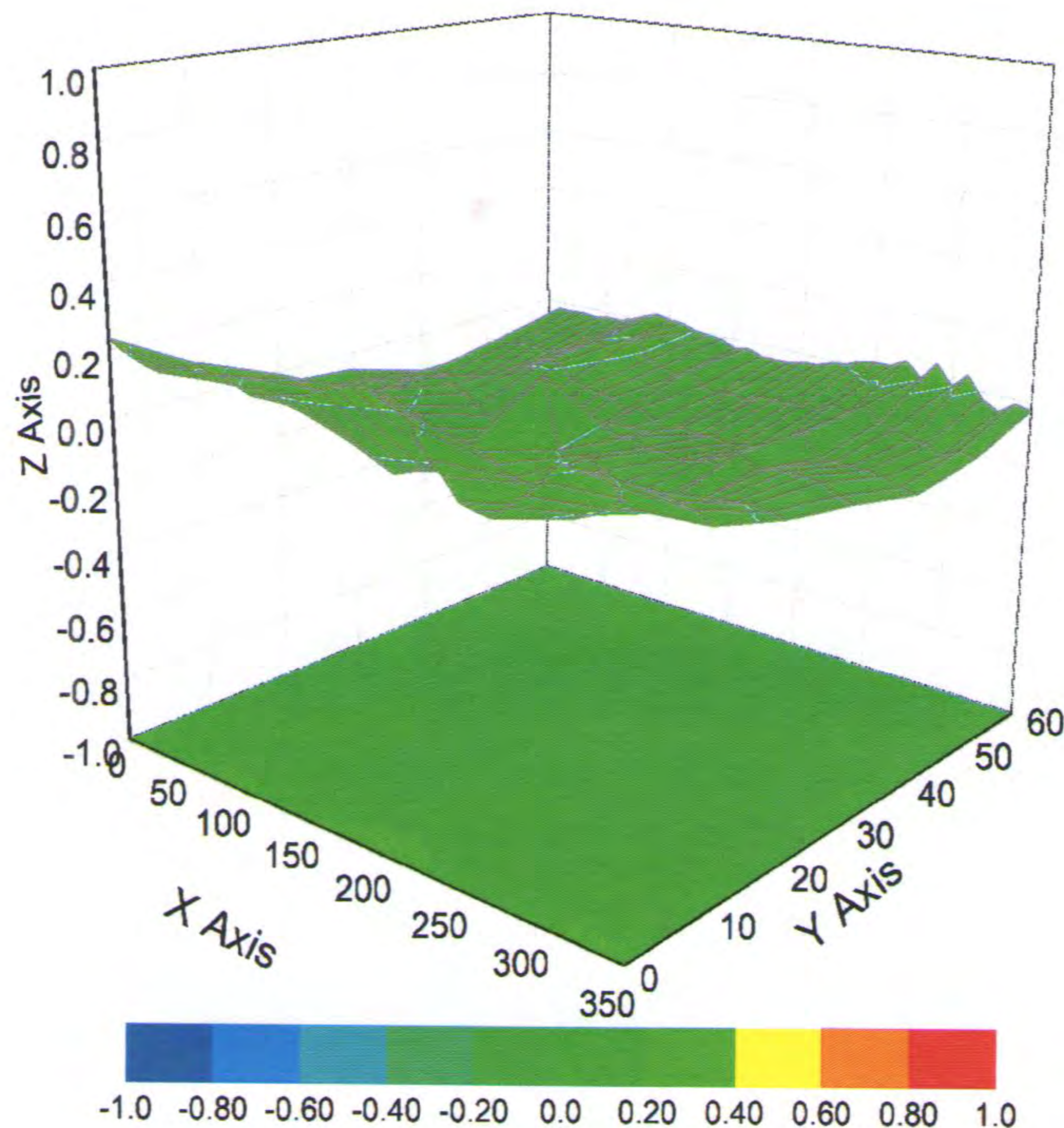


analytical measured



analytical measured

## Deviation from Isotropy in Liquid



**Uncertainty of Spherical Isotropy Assessment:  $\pm 3.2\%$  (K=2)**



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## **DASY/EASY – Parameters of Probe: EX3DV4 – SN:3962**

### **Other Probe Parameters**

|                                                      |                   |
|------------------------------------------------------|-------------------|
| <b>Sensor Arrangement</b>                            | <b>Triangular</b> |
| <b>Connector Angle (°)</b>                           | <b>151.2</b>      |
| <b>Mechanical Surface Detection Mode</b>             | <b>enabled</b>    |
| <b>Optical Surface Detection Mode</b>                | <b>disable</b>    |
| <b>Probe Overall Length</b>                          | <b>337mm</b>      |
| <b>Probe Body Diameter</b>                           | <b>10mm</b>       |
| <b>Tip Length</b>                                    | <b>10mm</b>       |
| <b>Tip Diameter</b>                                  | <b>2.5mm</b>      |
| <b>Probe Tip to Sensor X Calibration Point</b>       | <b>1mm</b>        |
| <b>Probe Tip to Sensor Y Calibration Point</b>       | <b>1mm</b>        |
| <b>Probe Tip to Sensor Z Calibration Point</b>       | <b>1mm</b>        |
| <b>Recommended Measurement Distance from Surface</b> | <b>1.4mm</b>      |



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CNAS L0570

Client **SGS**

Certificate No: **Z20-60146**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN : 3793**

Calibration Procedure(s) **FF-Z11-004-01**  
**Calibration Procedures for Dosimetric E-field Probes**

Calibration date: **May 09, 2020**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards        | ID #        | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|--------------------------|-------------|------------------------------------------|-----------------------|
| Power Meter NRP2         | 101919      | 18-Jun-19(CTTL, No.J19X05125)            | Jun-20                |
| Power sensor NRP-Z91     | 101547      | 18-Jun-19(CTTL, No.J19X05125)            | Jun-20                |
| Power sensor NRP-Z91     | 101548      | 18-Jun-19(CTTL, No.J19X05125)            | Jun-20                |
| Reference 10dBAttenuator | 18N50W-10dB | 10-Feb-20(CTTL, No.J20X00525)            | Feb-22                |
| Reference 20dBAttenuator | 18N50W-20dB | 10-Feb-20(CTTL, No.J20X00526)            | Feb-22                |
| Reference Probe EX3DV4   | SN 3617     | 30-Jan-20(SPEAG, No.EX3-3617_Jan20/2)    | Jan-21                |
| DAE4                     | SN 1556     | 4-Feb-20(SPEAG, No.DAE4-1556_Feb20)      | Feb-21                |

| Secondary Standards     | ID #       | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|------------------------------------------|-----------------------|
| SignalGenerator MG3700A | 6201052605 | 18-Jun-19(CTTL, No.J19X05127)            | Jun-20                |
| Network Analyzer E5071C | MY46110673 | 10-Feb-20(CTTL, No.J20X00515)            | Feb-21                |

|                | Name        | Function           | Signature |
|----------------|-------------|--------------------|-----------|
| Calibrated by: | Yu Zongying | SAR Test Engineer  |           |
| Reviewed by:   | Lin Hao     | SAR Test Engineer  |           |
| Approved by:   | Qi Dianyuan | SAR Project Leader |           |

Issued: May 11, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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### Glossary:

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| TSL                   | tissue simulating liquid                                                                                                               |
| NORM <sub>x,y,z</sub> | sensitivity in free space                                                                                                              |
| ConvF                 | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                             |
| DCP                   | diode compression point                                                                                                                |
| CF                    | crest factor (1/duty_cycle) of the RF signal                                                                                           |
| A,B,C,D               | modulation dependent linearization parameters                                                                                          |
| Polarization $\Phi$   | $\Phi$ rotation around probe axis                                                                                                      |
| Polarization $\theta$ | $\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), $\theta=0$ is normal to probe axis |

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\theta=0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not effect the  $E^2$ -field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; VR<sub>x,y,z</sub>; A,B,C** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3793

### Basic Calibration Parameters

|                                                          | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|----------------------------------------------------------|----------|----------|----------|-----------|
| Norm( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.49     | 0.47     | 0.47     | ±10.0%    |
| DCP(mV) <sup>B</sup>                                     | 101.8    | 104.6    | 103.9    |           |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 161.2    | ±2.0%                     |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 154.8    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 161.8    |                           |

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution Corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X, Y, Z do not affect the  $E^2$ -field uncertainty inside TSL (see Page 4).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3793

### Calibration Parameter Determined in Head Tissue Simulating Media

| f [MHz] <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unct. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-------------|
| 750                  | 41.9                               | 0.89                            | 9.34    | 9.34    | 9.34    | 0.40               | 0.80                    | ±12.1%      |
| 835                  | 41.5                               | 0.90                            | 9.05    | 9.05    | 9.05    | 0.14               | 1.28                    | ±12.1%      |
| 1750                 | 40.1                               | 1.37                            | 7.81    | 7.81    | 7.81    | 0.24               | 1.04                    | ±12.1%      |
| 1900                 | 40.0                               | 1.40                            | 7.61    | 7.61    | 7.61    | 0.26               | 1.01                    | ±12.1%      |
| 2300                 | 39.5                               | 1.67                            | 7.30    | 7.30    | 7.30    | 0.60               | 0.69                    | ±12.1%      |
| 2450                 | 39.2                               | 1.80                            | 7.06    | 7.06    | 7.06    | 0.40               | 0.91                    | ±12.1%      |
| 2600                 | 39.0                               | 1.96                            | 6.88    | 6.88    | 6.88    | 0.50               | 0.80                    | ±12.1%      |
| 3300                 | 38.2                               | 2.71                            | 6.54    | 6.54    | 6.54    | 0.44               | 0.93                    | ±13.3%      |
| 3500                 | 37.9                               | 2.91                            | 6.51    | 6.51    | 6.51    | 0.44               | 0.94                    | ±13.3%      |
| 3700                 | 37.7                               | 3.12                            | 6.30    | 6.30    | 6.30    | 0.46               | 0.95                    | ±13.3%      |

<sup>C</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequency below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

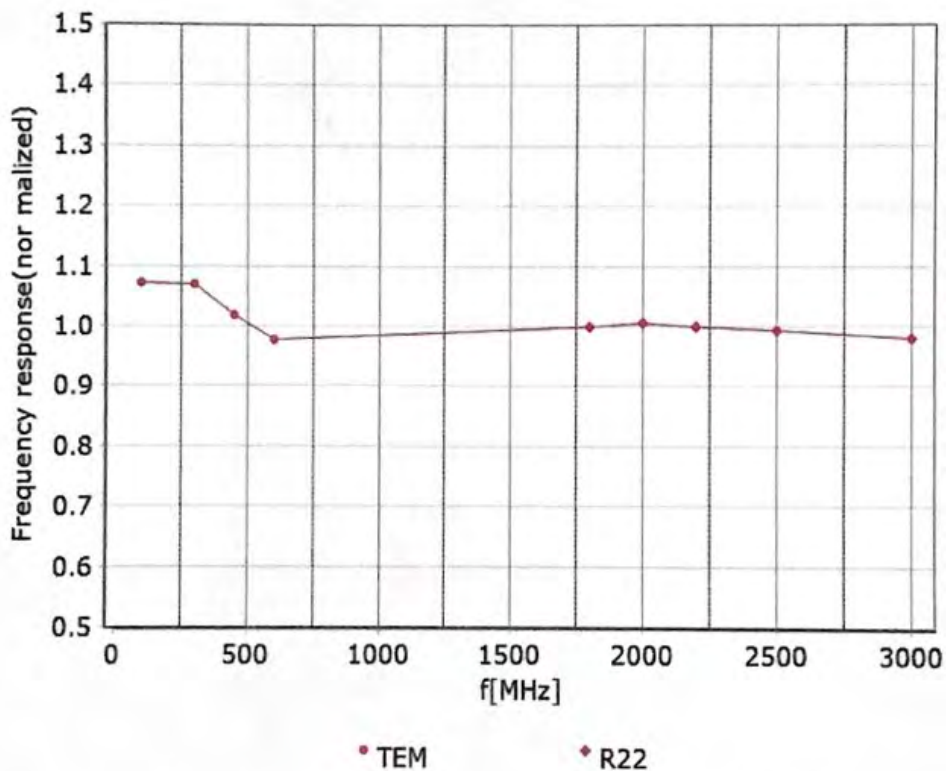
<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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## Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field:  $\pm 7.4\%$  ( $k=2$ )



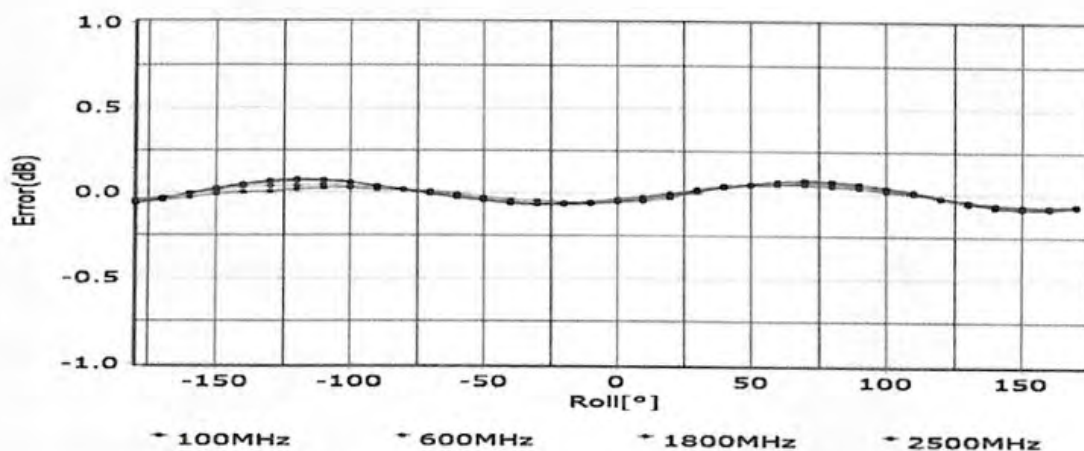
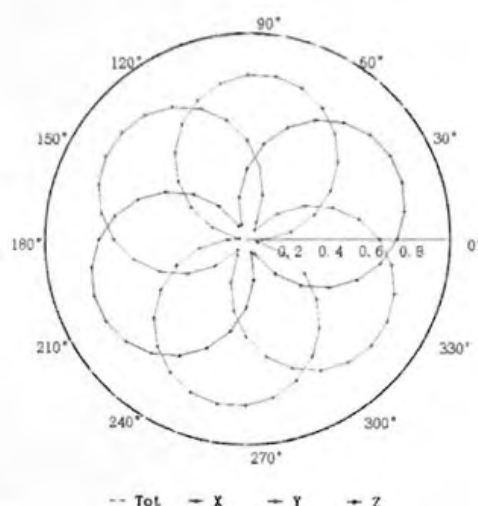
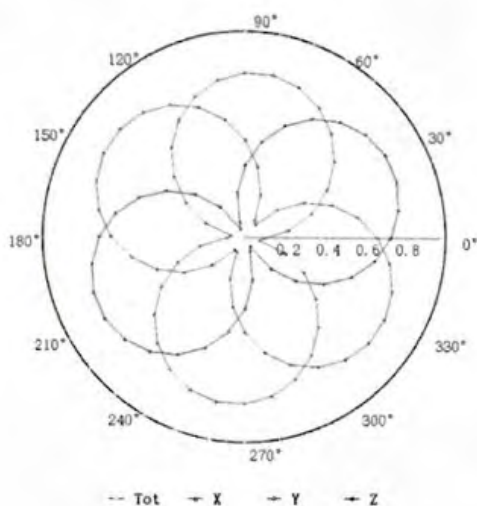
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## Receiving Pattern ( $\Phi$ ), $\theta=0^\circ$

**f=600 MHz, TEM**

**f=1800 MHz, R22**



Uncertainty of Axial Isotropy Assessment:  $\pm 1.2\%$  ( $k=2$ )



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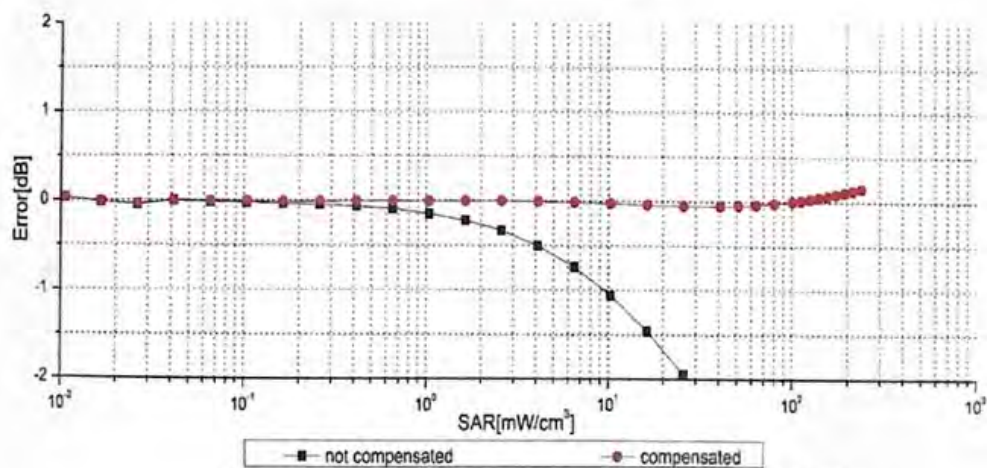
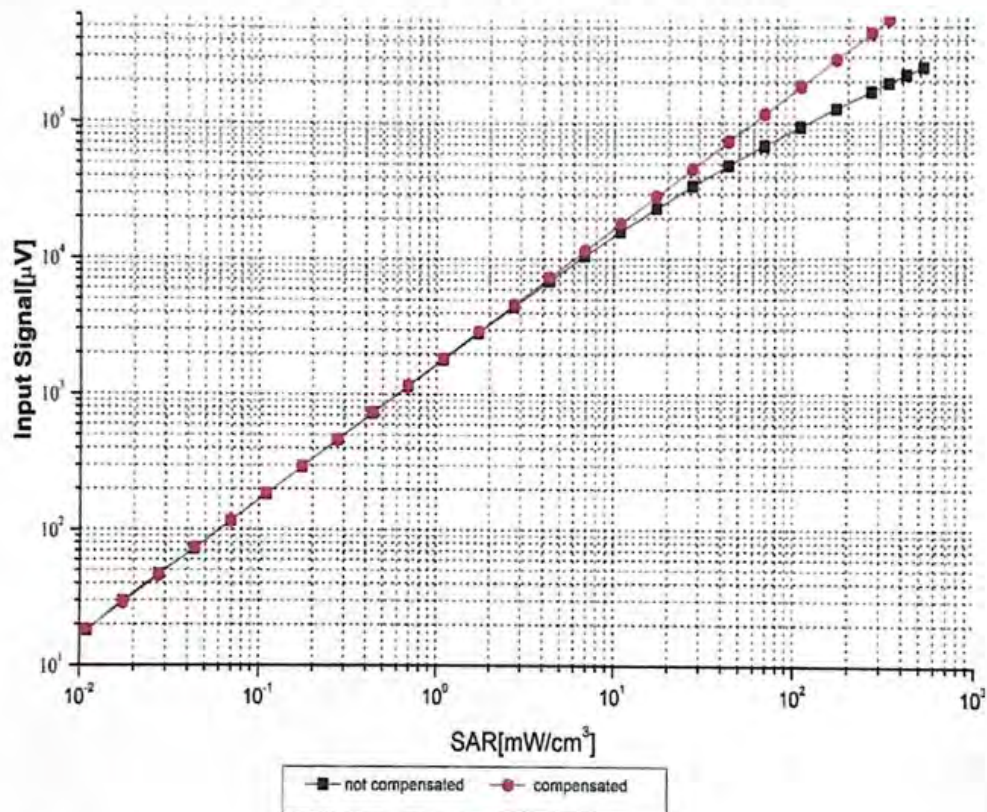
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## Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f = 900 \text{ MHz}$ )



Uncertainty of Linearity Assessment:  $\pm 0.9\%$  ( $k=2$ )



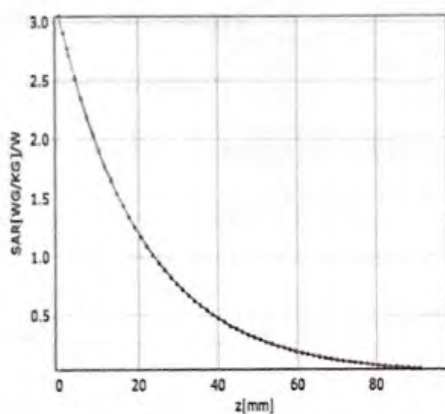
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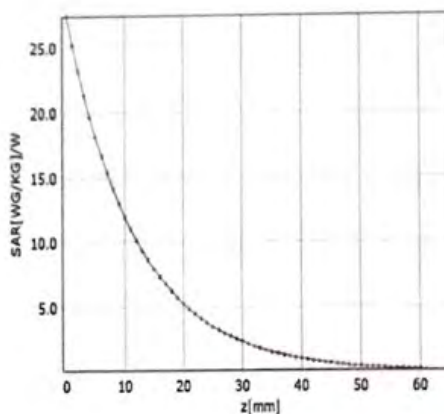
## Conversion Factor Assessment

f=750 MHz,WGLS R9(H\_convF)

f=1750 MHz,WGLS R22(H\_convF)

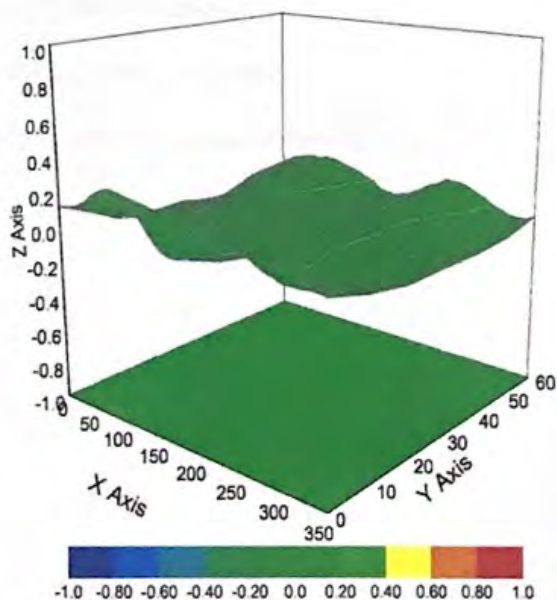


\* analytical \* measured



\* analytical \* measured

## Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment:  $\pm 3.2\%$  ( $k=2$ )



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## **DASY/EASY – Parameters of Probe: EX3DV4 – SN:3793**

### **Other Probe Parameters**

|                                                      |                   |
|------------------------------------------------------|-------------------|
| <b>Sensor Arrangement</b>                            | <b>Triangular</b> |
| <b>Connector Angle (°)</b>                           | <b>115.7</b>      |
| <b>Mechanical Surface Detection Mode</b>             | <b>enabled</b>    |
| <b>Optical Surface Detection Mode</b>                | <b>disable</b>    |
| <b>Probe Overall Length</b>                          | <b>337mm</b>      |
| <b>Probe Body Diameter</b>                           | <b>10mm</b>       |
| <b>Tip Length</b>                                    | <b>10mm</b>       |
| <b>Tip Diameter</b>                                  | <b>2.5mm</b>      |
| <b>Probe Tip to Sensor X Calibration Point</b>       | <b>1mm</b>        |
| <b>Probe Tip to Sensor Y Calibration Point</b>       | <b>1mm</b>        |
| <b>Probe Tip to Sensor Z Calibration Point</b>       | <b>1mm</b>        |
| <b>Recommended Measurement Distance from Surface</b> | <b>1.4mm</b>      |

| Dipole D750V3 SN 1160 |                 |            |                        |                |
|-----------------------|-----------------|------------|------------------------|----------------|
| Head Liquid           |                 |            |                        |                |
| Date of Measurement   | Return Loss(dB) | $\Delta$ % | Impedance ( $\Omega$ ) | $\Delta\Omega$ |
| 2019-05-22            | -29.1           | /          | 51.8                   | /              |
| 2020-05-21            | -29.4           | 1.03%      | 52.2                   | 0.4 $\Omega$   |

| Dipole D1750V2 SN 1149 |                 |            |                        |                |
|------------------------|-----------------|------------|------------------------|----------------|
| Head Liquid            |                 |            |                        |                |
| Date of Measurement    | Return Loss(dB) | $\Delta$ % | Impedance ( $\Omega$ ) | $\Delta\Omega$ |
| 2019-05-21             | -31.8           | /          | 47.6                   | /              |
| 2020-05-20             | -32.3           | 1.57%      | 48.9                   | 1.3 $\Omega$   |

| Dipole D2600V2 SN 1125 |                 |            |                        |                |
|------------------------|-----------------|------------|------------------------|----------------|
| Head Liquid            |                 |            |                        |                |
| Date of Measurement    | Return Loss(dB) | $\Delta$ % | Impedance ( $\Omega$ ) | $\Delta\Omega$ |
| 2019-05-20             | -25.7           | /          | 48.9                   | /              |
| 2020-05-19             | -26.6           | 3.50%      | 50.8                   | 1.9 $\Omega$   |



# **Appendix E**

## **Conducted RF Output Power Table**

|     |                                        |
|-----|----------------------------------------|
| 1   | Measurement of RF conducted Power      |
| 1.1 | Conducted Power of Main Antenna (Ant0) |
| 1.2 | Conducted Power of Main Antenna (Ant1) |
| 2   | Conducted Power of WiFi and BT         |
| 2.1 | Conducted Power of WiFi                |
| 2.2 | Conducted Power of BT                  |



## 1 Measurement of RF conducted Power

### 1.1 Conducted Power of Main Antenna (Ant0)

#### 1.1.1 Conducted Power of GSM

| GSM 850                 |            |       |              |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|--------------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |              |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                 |            | 128   | 190          | 251   |         |                  | 128                             | 190   | 251   |         |
| GSM(GMSK)               | GSM        | 32.95 | <b>33.01</b> | 33.04 | 34.00   | -9.19            | 23.76                           | 23.82 | 23.85 | 24.81   |
| GPRS/EGPRS<br>(GMSK)    | 1 TX Slot  | 32.96 | 33.05        | 33.02 | 34.00   | -9.19            | 23.77                           | 23.86 | 23.83 | 24.81   |
|                         | 2 TX Slots | 29.84 | 29.88        | 29.86 | 31.00   | -6.18            | 23.66                           | 23.70 | 23.68 | 24.82   |
|                         | 3 TX Slots | 27.79 | 27.84        | 27.74 | 29.00   | -4.42            | 23.37                           | 23.42 | 23.32 | 24.58   |
|                         | 4 TX Slots | 26.81 | <b>26.82</b> | 26.85 | 28.00   | -3.17            | 23.64                           | 23.65 | 23.68 | 24.83   |
| EGPRS(8PSK)             | 1 TX Slot  | 26.64 | 26.78        | 26.81 | 28.50   | -9.19            | 17.45                           | 17.59 | 17.62 | 19.31   |
|                         | 2 TX Slots | 23.79 | 23.83        | 23.81 | 25.50   | -6.18            | 17.61                           | 17.65 | 17.63 | 19.32   |
|                         | 3 TX Slots | 21.75 | 21.71        | 21.69 | 23.50   | -4.42            | 17.33                           | 17.29 | 17.27 | 19.08   |
|                         | 4 TX Slots | 20.51 | 20.55        | 20.53 | 22.50   | -3.17            | 17.34                           | 17.38 | 17.36 | 19.33   |

| GSM 1900 Hotspot off    |            |       |              |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|--------------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |              |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                 |            | 512   | 661          | 810   |         |                  | 512                             | 661   | 810   |         |
| GSM(GMSK)               | GSM        | 29.86 | <b>29.92</b> | 29.81 | 31.00   | -9.19            | 20.67                           | 20.73 | 20.62 | 21.81   |
| GPRS/EGPRS<br>(GMSK)    | 1 TX Slot  | 29.89 | 29.94        | 29.88 | 31.00   | -9.19            | 20.7                            | 20.75 | 20.69 | 21.81   |
|                         | 2 TX Slots | 26.79 | 26.89        | 26.83 | 28.00   | -6.18            | 20.61                           | 20.71 | 20.65 | 21.82   |
|                         | 3 TX Slots | 24.81 | 24.88        | 24.82 | 26.00   | -4.42            | 20.39                           | 20.46 | 20.4  | 21.58   |
|                         | 4 TX Slots | 23.67 | 23.76        | 23.68 | 25.00   | -3.17            | 20.5                            | 20.59 | 20.51 | 21.83   |
| EGPRS(8PSK)             | 1 TX Slot  | 25.64 | 25.75        | 25.66 | 27.50   | -9.19            | 16.45                           | 16.56 | 16.47 | 18.31   |
|                         | 2 TX Slots | 22.55 | 22.66        | 22.57 | 24.50   | -6.18            | 16.37                           | 16.48 | 16.39 | 18.32   |
|                         | 3 TX Slots | 20.52 | 20.51        | 20.52 | 22.50   | -4.42            | 16.1                            | 16.09 | 16.1  | 18.08   |
|                         | 4 TX Slots | 19.51 | 19.50        | 19.55 | 21.50   | -3.17            | 16.34                           | 16.33 | 16.38 | 18.33   |

| GSM 1900 Hotspot on     |            |       |              |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|--------------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |              |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                 |            | 512   | 661          | 810   |         |                  | 512                             | 661   | 810   |         |
| GSM(GMSK)               | GSM        | 28.44 | 28.54        | 28.47 | 29.50   | -9.19            | 19.25                           | 19.35 | 19.28 | 20.31   |
| GPRS/EGPRS<br>(GMSK)    | 1 TX Slot  | 28.40 | <b>28.51</b> | 28.45 | 29.50   | -9.19            | 19.21                           | 19.32 | 19.26 | 20.31   |
|                         | 2 TX Slots | 24.00 | 24.02        | 24.11 | 25.50   | -6.18            | 17.82                           | 17.84 | 17.93 | 19.32   |
|                         | 3 TX Slots | 22.27 | 22.25        | 22.34 | 23.50   | -4.42            | 17.85                           | 17.83 | 17.92 | 19.08   |
|                         | 4 TX Slots | 21.02 | 20.93        | 20.90 | 22.50   | -3.17            | 17.85                           | 17.76 | 17.73 | 19.33   |
| EGPRS(8PSK)             | 1 TX Slot  | 24.11 | 24.21        | 24.12 | 25.00   | -9.19            | 14.92                           | 15.02 | 14.93 | 15.81   |
|                         | 2 TX Slots | 20.11 | 20.07        | 20.09 | 22.00   | -6.18            | 13.93                           | 13.89 | 13.91 | 15.82   |
|                         | 3 TX Slots | 18.22 | 18.07        | 18.21 | 20.00   | -4.42            | 13.8                            | 13.65 | 13.79 | 15.58   |
|                         | 4 TX Slots | 17.25 | 17.12        | 17.21 | 19.00   | -3.17            | 14.08                           | 13.95 | 14.04 | 15.83   |

Table 1 : Conducted Power of GSM



### 1.1.2 Conducted Power of WCDMA

| WCDMA Band II Receiver on/Sensor off |              |       |              |       |         |
|--------------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm)         |              |       |              |       |         |
| Channel                              |              | 9262  | 9400         | 9538  | Tune up |
| WCDMA                                | 12.2kbps RMC | 23.66 | <b>23.68</b> | 23.57 | 25.00   |
|                                      | 12.2kbps AMR | 23.60 | 23.61        | 23.50 | 25.00   |
| HSDPA                                | Subtest 1    | 22.50 | 22.60        | 22.54 | 24.00   |
|                                      | Subtest 2    | 22.49 | 22.45        | 22.51 | 24.00   |
|                                      | Subtest 3    | 22.01 | 22.08        | 22.04 | 23.50   |
|                                      | Subtest 4    | 21.94 | 22.03        | 22.00 | 23.50   |
| HSUPA                                | Subtest 1    | 22.51 | 22.58        | 22.55 | 24.00   |
|                                      | Subtest 2    | 20.52 | 20.54        | 20.48 | 22.00   |
|                                      | Subtest 3    | 21.49 | 21.60        | 21.49 | 23.00   |
|                                      | Subtest 4    | 20.47 | 20.55        | 20.53 | 22.00   |
|                                      | Subtest 5    | 22.45 | 22.58        | 22.51 | 24.00   |
| DC-HSDPA                             | Subtest 1    | 22.47 | 22.57        | 22.56 | 24.00   |
|                                      | Subtest 2    | 22.43 | 22.41        | 22.51 | 24.00   |
|                                      | Subtest 3    | 21.98 | 22.05        | 22.04 | 23.50   |
|                                      | Subtest 4    | 21.99 | 22.03        | 21.95 | 23.50   |

| WCDMA Band II Receiver off/Hotspot off |              |       |              |       |         |
|----------------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm)           |              |       |              |       |         |
| Channel                                |              | 9262  | 9400         | 9538  | Tune up |
| WCDMA                                  | 12.2kbps RMC | 21.87 | <b>21.97</b> | 21.99 | 23.00   |
|                                        | 12.2kbps AMR | 21.86 | 21.87        | 21.85 | 23.00   |
| HSDPA                                  | Subtest 1    | 20.44 | 20.49        | 20.48 | 22.00   |
|                                        | Subtest 2    | 20.43 | 20.39        | 20.40 | 22.00   |
|                                        | Subtest 3    | 19.96 | 20.01        | 19.95 | 21.50   |
|                                        | Subtest 4    | 19.87 | 19.92        | 19.90 | 21.50   |
| HSUPA                                  | Subtest 1    | 20.42 | 20.53        | 20.48 | 22.00   |
|                                        | Subtest 2    | 18.47 | 18.44        | 18.38 | 20.00   |
|                                        | Subtest 3    | 19.38 | 19.54        | 19.41 | 21.00   |
|                                        | Subtest 4    | 18.41 | 18.50        | 18.47 | 20.00   |
|                                        | Subtest 5    | 20.37 | 20.53        | 20.44 | 22.00   |
| DC-HSDPA                               | Subtest 1    | 20.42 | 20.49        | 20.46 | 22.00   |
|                                        | Subtest 2    | 20.40 | 20.30        | 20.45 | 22.00   |
|                                        | Subtest 3    | 19.89 | 19.96        | 19.93 | 21.50   |
|                                        | Subtest 4    | 19.88 | 19.93        | 19.89 | 21.50   |



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| WCDMA Band II Hotspot on     |              |              |              |              |         |
|------------------------------|--------------|--------------|--------------|--------------|---------|
| Average Conducted Power(dBm) |              |              |              |              |         |
| Channel                      |              | 9262         | 9400         | 9538         | Tune up |
| WCDMA                        | 12.2kbps RMC | <b>19.31</b> | <b>19.34</b> | <b>19.30</b> | 20.50   |
|                              | 12.2kbps AMR | 19.34        | 19.28        | 19.21        | 20.50   |
| HSDPA                        | Subtest 1    | 18.09        | 18.15        | 18.13        | 19.50   |
|                              | Subtest 2    | 18.07        | 18.06        | 18.11        | 19.50   |
|                              | Subtest 3    | 17.56        | 17.68        | 17.65        | 19.00   |
|                              | Subtest 4    | 17.52        | 17.64        | 17.55        | 19.00   |
| HSUPA                        | Subtest 1    | 18.09        | 18.17        | 18.16        | 19.50   |
|                              | Subtest 2    | 16.12        | 16.10        | 16.03        | 17.50   |
|                              | Subtest 3    | 17.09        | 17.17        | 17.09        | 18.50   |
|                              | Subtest 4    | 16.05        | 16.15        | 16.08        | 17.50   |
|                              | Subtest 5    | 18.04        | 18.14        | 18.11        | 19.50   |
| DC-HSDPA                     | Subtest 1    | 18.03        | 18.12        | 18.16        | 19.50   |
|                              | Subtest 2    | 18.00        | 17.97        | 18.11        | 19.50   |
|                              | Subtest 3    | 17.56        | 17.60        | 17.62        | 19.00   |
|                              | Subtest 4    | 17.55        | 17.64        | 17.52        | 19.00   |

| WCDMA Band II Sensor on      |              |       |              |       |         |
|------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm) |              |       |              |       |         |
| Channel                      |              | 9262  | 9400         | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 17.79 | <b>17.89</b> | 17.80 | 19.00   |
|                              | 12.2kbps AMR | 17.92 | 17.76        | 17.68 | 19.00   |
| HSDPA                        | Subtest 1    | 16.54 | 16.66        | 16.66 | 18.00   |
|                              | Subtest 2    | 16.57 | 16.65        | 16.62 | 18.00   |
|                              | Subtest 3    | 16.15 | 16.27        | 16.23 | 17.50   |
|                              | Subtest 4    | 16.02 | 16.24        | 16.08 | 17.50   |
| HSUPA                        | Subtest 1    | 16.54 | 16.73        | 16.68 | 18.00   |
|                              | Subtest 2    | 14.61 | 14.66        | 14.57 | 16.00   |
|                              | Subtest 3    | 15.62 | 15.64        | 15.68 | 17.00   |
|                              | Subtest 4    | 14.51 | 14.62        | 14.57 | 16.00   |
|                              | Subtest 5    | 16.57 | 16.71        | 16.63 | 18.00   |
| DC-HSDPA                     | Subtest 1    | 16.53 | 16.72        | 16.63 | 18.00   |
|                              | Subtest 2    | 16.60 | 16.42        | 16.66 | 18.00   |
|                              | Subtest 3    | 16.10 | 16.05        | 16.14 | 17.50   |
|                              | Subtest 4    | 16.07 | 16.24        | 16.05 | 17.50   |



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| WCDMA Band IV Hotspot off/Sensor off |              |       |              |       |         |
|--------------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm)         |              |       |              |       |         |
| Channel                              |              | 1312  | 1412         | 1513  | Tune up |
| WCDMA                                | 12.2kbps RMC | 23.97 | <b>24.01</b> | 23.94 | 25.00   |
|                                      | 12.2kbps AMR | 23.87 | 23.96        | 23.88 | 25.00   |
| HSDPA                                | Subtest 1    | 22.81 | 22.82        | 22.81 | 24.00   |
|                                      | Subtest 2    | 22.69 | 22.77        | 22.78 | 24.00   |
|                                      | Subtest 3    | 22.23 | 22.26        | 22.30 | 23.50   |
|                                      | Subtest 4    | 22.24 | 22.27        | 22.27 | 23.50   |
| HSUPA                                | Subtest 1    | 22.77 | 22.82        | 22.81 | 24.00   |
|                                      | Subtest 2    | 20.76 | 20.79        | 20.81 | 22.00   |
|                                      | Subtest 3    | 21.79 | 21.86        | 21.84 | 23.00   |
|                                      | Subtest 4    | 20.78 | 20.77        | 20.75 | 22.00   |
|                                      | Subtest 5    | 22.79 | 22.86        | 22.85 | 24.00   |
| DC-HSDPA                             | Subtest 1    | 22.82 | 22.83        | 22.82 | 24.00   |
|                                      | Subtest 2    | 22.65 | 22.78        | 22.73 | 24.00   |
|                                      | Subtest 3    | 22.20 | 22.22        | 22.31 | 23.50   |
|                                      | Subtest 4    | 22.21 | 22.24        | 22.24 | 23.50   |

| WCDMA Band IV Hotspot on/Sensor on |              |              |              |              |         |
|------------------------------------|--------------|--------------|--------------|--------------|---------|
| Average Conducted Power(dBm)       |              |              |              |              |         |
| Channel                            |              | 1312         | 1412         | 1513         | Tune up |
| WCDMA                              | 12.2kbps RMC | <b>18.81</b> | <b>18.77</b> | <b>18.83</b> | 19.50   |
|                                    | 12.2kbps AMR | 18.74        | 18.63        | 18.65        | 19.50   |
| HSDPA                              | Subtest 1    | 17.40        | 17.38        | 17.39        | 18.50   |
|                                    | Subtest 2    | 17.30        | 17.36        | 17.34        | 18.50   |
|                                    | Subtest 3    | 16.79        | 16.81        | 16.90        | 18.00   |
|                                    | Subtest 4    | 16.79        | 16.83        | 16.88        | 18.00   |
| HSUPA                              | Subtest 1    | 17.33        | 17.38        | 17.37        | 18.50   |
|                                    | Subtest 2    | 15.34        | 15.37        | 15.36        | 16.50   |
|                                    | Subtest 3    | 16.37        | 16.45        | 16.43        | 17.50   |
|                                    | Subtest 4    | 15.37        | 15.33        | 15.35        | 16.50   |
|                                    | Subtest 5    | 17.40        | 17.43        | 17.46        | 18.50   |
| DC-HSDPA                           | Subtest 1    | 17.38        | 17.42        | 17.41        | 18.50   |
|                                    | Subtest 2    | 17.24        | 17.37        | 17.32        | 18.50   |
|                                    | Subtest 3    | 16.76        | 16.81        | 16.88        | 18.00   |
|                                    | Subtest 4    | 16.78        | 16.81        | 16.80        | 18.00   |



| WCDMA Band V                 |              |       |              |       |         |
|------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm) |              |       |              |       |         |
| Channel                      |              | 4132  | 4182         | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 23.58 | <b>23.62</b> | 23.60 | 25.00   |
|                              | 12.2kbps AMR | 23.53 | 23.53        | 23.49 | 25.00   |
| HSDPA                        | Subtest 1    | 22.92 | 22.92        | 22.96 | 24.00   |
|                              | Subtest 2    | 22.90 | 22.89        | 22.91 | 24.00   |
|                              | Subtest 3    | 22.46 | 22.50        | 22.44 | 23.50   |
|                              | Subtest 4    | 22.43 | 22.40        | 22.43 | 23.50   |
| HSUPA                        | Subtest 1    | 22.97 | 23.01        | 22.96 | 24.00   |
|                              | Subtest 2    | 20.90 | 20.99        | 20.90 | 22.00   |
|                              | Subtest 3    | 21.92 | 22.00        | 21.97 | 23.00   |
|                              | Subtest 4    | 20.96 | 20.93        | 20.99 | 22.00   |
|                              | Subtest 5    | 22.95 | 23.02        | 22.90 | 24.00   |
| DC-HSDPA                     | Subtest 1    | 22.91 | 22.96        | 22.92 | 24.00   |
|                              | Subtest 2    | 22.87 | 22.87        | 22.90 | 24.00   |
|                              | Subtest 3    | 22.50 | 22.41        | 22.43 | 23.50   |
|                              | Subtest 4    | 22.39 | 22.36        | 22.36 | 23.50   |

Table 2 : Conducted Power of WCDMA



### 1.1.3 Conducted Power of LTE

| LTE Band 2 Hotspot off/Sensor off |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                            | QPSK       | 1       | 0         | 23.75                | 23.56   | 23.52   | 25.00   |
|                                   |            | 1       | 2         | 23.53                | 23.54   | 23.52   | 25.00   |
|                                   |            | 1       | 5         | 23.53                | 23.56   | 23.54   | 25.00   |
|                                   |            | 3       | 0         | 23.67                | 23.68   | 23.73   | 25.00   |
|                                   |            | 3       | 2         | 23.76                | 23.67   | 23.75   | 25.00   |
|                                   |            | 3       | 3         | 23.68                | 23.65   | 23.78   | 25.00   |
|                                   |            | 6       | 0         | 23.18                | 23.23   | 23.22   | 24.00   |
|                                   | 16QAM      | 1       | 0         | 23.12                | 23.12   | 23.17   | 24.00   |
|                                   |            | 1       | 2         | 23.29                | 23.20   | 23.17   | 24.00   |
|                                   |            | 1       | 5         | 23.11                | 23.12   | 23.19   | 24.00   |
|                                   |            | 3       | 0         | 23.06                | 23.07   | 23.14   | 24.00   |
|                                   |            | 3       | 2         | 23.05                | 23.05   | 23.07   | 24.00   |
|                                   |            | 3       | 3         | 23.08                | 23.02   | 23.07   | 24.00   |
|                                   |            | 6       | 0         | 22.21                | 22.21   | 22.28   | 23.00   |
|                                   | 64QAM      | 1       | 0         | 22.39                | 22.37   | 22.27   | 23.00   |
|                                   |            | 1       | 2         | 22.38                | 22.13   | 22.39   | 23.00   |
|                                   |            | 1       | 5         | 22.36                | 21.99   | 22.42   | 23.00   |
|                                   |            | 3       | 0         | 22.45                | 22.35   | 22.35   | 23.00   |
|                                   |            | 3       | 2         | 22.13                | 22.10   | 22.02   | 23.00   |
|                                   |            | 3       | 3         | 22.06                | 22.28   | 22.15   | 23.00   |
|                                   |            | 6       | 0         | 21.17                | 21.09   | 21.16   | 22.00   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                              | QPSK       | 1       | 0         | 23.67                | 23.64   | 23.64   | 25.00   |
|                                   |            | 1       | 7         | 23.67                | 23.66   | 23.71   | 25.00   |
|                                   |            | 1       | 14        | 23.66                | 23.63   | 23.71   | 25.00   |
|                                   |            | 8       | 0         | 23.18                | 23.16   | 23.20   | 24.00   |
|                                   |            | 8       | 4         | 23.14                | 23.13   | 23.21   | 24.00   |
|                                   |            | 8       | 7         | 23.14                | 23.13   | 23.20   | 24.00   |
|                                   |            | 15      | 0         | 23.16                | 23.14   | 23.18   | 24.00   |
|                                   | 16QAM      | 1       | 0         | 23.31                | 23.41   | 23.33   | 24.00   |
|                                   |            | 1       | 7         | 23.36                | 23.44   | 23.40   | 24.00   |
|                                   |            | 1       | 14        | 23.36                | 23.38   | 23.38   | 24.00   |
|                                   |            | 8       | 0         | 22.23                | 22.21   | 22.25   | 23.00   |
|                                   |            | 8       | 4         | 22.23                | 22.21   | 22.27   | 23.00   |
|                                   |            | 8       | 7         | 22.22                | 22.21   | 22.28   | 23.00   |
|                                   |            | 15      | 0         | 22.20                | 22.18   | 22.22   | 23.00   |
|                                   | 64QAM      | 1       | 0         | 22.46                | 22.40   | 22.10   | 23.00   |
|                                   |            | 1       | 7         | 22.38                | 22.17   | 21.99   | 23.00   |
|                                   |            | 1       | 14        | 22.00                | 22.07   | 22.19   | 23.00   |
|                                   |            | 8       | 0         | 21.18                | 21.27   | 21.26   | 22.00   |
|                                   |            | 8       | 4         | 21.17                | 21.35   | 21.13   | 22.00   |
|                                   |            | 8       | 7         | 21.20                | 21.08   | 21.17   | 22.00   |
|                                   |            | 15      | 0         | 21.00                | 21.03   | 21.08   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.68   | 23.67   | 23.72   | 25.00   |
|           |            | 1       | 13        | 23.69   | 23.67   | 23.72   | 25.00   |
|           |            | 1       | 24        | 23.66   | 23.66   | 23.77   | 25.00   |
|           |            | 12      | 0         | 23.19   | 23.14   | 23.17   | 24.00   |
|           |            | 12      | 6         | 23.16   | 23.18   | 23.20   | 24.00   |
|           |            | 12      | 13        | 23.13   | 23.17   | 23.20   | 24.00   |
|           |            | 25      | 0         | 23.19   | 23.20   | 23.21   | 24.00   |
|           | 16QAM      | 1       | 0         | 23.38   | 23.46   | 23.45   | 24.00   |
|           |            | 1       | 13        | 23.44   | 23.45   | 23.46   | 24.00   |
|           |            | 1       | 24        | 23.34   | 23.42   | 23.38   | 24.00   |
|           |            | 12      | 0         | 22.18   | 22.17   | 22.16   | 23.00   |
|           |            | 12      | 6         | 22.14   | 22.18   | 22.19   | 23.00   |
|           |            | 12      | 13        | 22.12   | 22.19   | 22.17   | 23.00   |
|           |            | 25      | 0         | 22.19   | 22.18   | 22.22   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.31   | 22.02   | 22.01   | 23.00   |
|           |            | 1       | 13        | 22.14   | 22.41   | 22.16   | 23.00   |
|           |            | 1       | 24        | 22.09   | 22.21   | 22.02   | 23.00   |
|           |            | 12      | 0         | 20.99   | 21.06   | 21.35   | 22.00   |
|           |            | 12      | 6         | 21.09   | 21.33   | 21.35   | 22.00   |
|           |            | 12      | 13        | 21.12   | 21.09   | 21.07   | 22.00   |
|           |            | 25      | 0         | 21.04   | 21.04   | 21.22   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.61   | 23.65   | 23.64   | 25.00   |
|           |            | 1       | 25        | 23.61   | 23.64   | 23.68   | 25.00   |
|           |            | 1       | 49        | 23.60   | 23.61   | 23.67   | 25.00   |
|           |            | 25      | 0         | 23.18   | 23.12   | 23.19   | 24.00   |
|           |            | 25      | 13        | 23.18   | 23.18   | 23.17   | 24.00   |
|           |            | 25      | 25        | 23.13   | 23.19   | 23.22   | 24.00   |
|           |            | 50      | 0         | 23.20   | 23.18   | 23.20   | 24.00   |
|           | 16QAM      | 1       | 0         | 23.30   | 23.39   | 23.42   | 24.00   |
|           |            | 1       | 25        | 23.38   | 23.37   | 23.41   | 24.00   |
|           |            | 1       | 49        | 23.32   | 23.34   | 23.33   | 24.00   |
|           |            | 25      | 0         | 22.21   | 22.15   | 22.21   | 23.00   |
|           |            | 25      | 13        | 22.19   | 22.21   | 22.20   | 23.00   |
|           |            | 25      | 25        | 22.16   | 22.19   | 22.26   | 23.00   |
|           |            | 50      | 0         | 22.20   | 22.19   | 22.21   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.46   | 22.23   | 22.45   | 23.00   |
|           |            | 1       | 25        | 22.23   | 22.31   | 22.19   | 23.00   |
|           |            | 1       | 49        | 22.45   | 22.03   | 22.18   | 23.00   |
|           |            | 25      | 0         | 21.38   | 21.37   | 21.43   | 22.00   |
|           |            | 25      | 13        | 21.09   | 21.00   | 21.01   | 22.00   |
|           |            | 25      | 25        | 21.37   | 21.16   | 21.34   | 22.00   |
|           |            | 50      | 0         | 21.26   | 21.40   | 21.23   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.64   | 23.60   | 23.64   | 25.00   |
|           |            | 1       | 38        | 23.68   | 23.66   | 23.65   | 25.00   |



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|                  |            |         |           |              |              |              |         |
|------------------|------------|---------|-----------|--------------|--------------|--------------|---------|
|                  |            | 1       | 74        | 23.60        | 23.63        | 23.67        | 25.00   |
|                  |            | 36      | 0         | 23.17        | 23.06        | 23.19        | 24.00   |
|                  |            | 36      | 18        | 23.11        | 23.11        | 23.20        | 24.00   |
|                  |            | 36      | 39        | 23.12        | 23.12        | 23.22        | 24.00   |
|                  |            | 75      | 0         | 23.14        | 23.12        | 23.17        | 24.00   |
|                  | 16QAM      | 1       | 0         | 23.38        | 23.40        | 23.39        | 24.00   |
|                  |            | 1       | 38        | 23.40        | 23.37        | 23.42        | 24.00   |
|                  |            | 1       | 74        | 23.38        | 23.32        | 23.42        | 24.00   |
|                  |            | 36      | 0         | 22.17        | 22.08        | 22.18        | 23.00   |
|                  |            | 36      | 18        | 22.17        | 22.12        | 22.23        | 23.00   |
|                  |            | 36      | 39        | 22.15        | 22.16        | 22.26        | 23.00   |
|                  |            | 75      | 0         | 22.18        | 22.12        | 22.15        | 23.00   |
|                  | 64QAM      | 1       | 0         | 22.26        | 22.06        | 22.04        | 23.00   |
|                  |            | 1       | 38        | 21.99        | 22.41        | 22.41        | 23.00   |
|                  |            | 1       | 74        | 22.33        | 22.00        | 21.99        | 23.00   |
|                  |            | 36      | 0         | 21.34        | 21.07        | 21.19        | 22.00   |
|                  |            | 36      | 18        | 21.09        | 21.13        | 21.21        | 22.00   |
|                  |            | 36      | 39        | 21.41        | 21.37        | 21.07        | 22.00   |
|                  |            | 75      | 0         | 21.33        | 21.00        | 21.40        | 22.00   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|                  |            |         |           | 18700        | 18900        | 19100        |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 23.62        | 23.56        | 23.43        | 25.00   |
|                  |            | 1       | 50        | <b>23.62</b> | <b>23.66</b> | <b>23.54</b> | 25.00   |
|                  |            | 1       | 99        | 23.52        | 23.52        | 23.50        | 25.00   |
|                  |            | 50      | 0         | 23.23        | <b>23.25</b> | 23.24        | 24.00   |
|                  |            | 50      | 25        | 23.17        | 23.17        | 23.15        | 24.00   |
|                  |            | 50      | 50        | 23.09        | 23.18        | 23.21        | 24.00   |
|                  |            | 100     | 0         | <b>23.35</b> | 23.14        | 23.23        | 24.00   |
|                  | 16QAM      | 1       | 0         | 23.35        | 23.38        | 23.27        | 24.00   |
|                  |            | 1       | 50        | 23.41        | 23.42        | 23.39        | 24.00   |
|                  |            | 1       | 99        | 23.34        | 23.32        | 23.29        | 24.00   |
|                  |            | 50      | 0         | 22.22        | 22.09        | 22.24        | 23.00   |
|                  |            | 50      | 25        | 22.16        | 22.14        | 22.16        | 23.00   |
|                  |            | 50      | 50        | 22.11        | 22.17        | 22.19        | 23.00   |
|                  |            | 100     | 0         | 22.13        | 22.11        | 22.19        | 23.00   |
|                  | 64QAM      | 1       | 0         | 22.33        | 22.03        | 22.19        | 23.00   |
|                  |            | 1       | 50        | 22.43        | 22.35        | 22.00        | 23.00   |
|                  |            | 1       | 99        | 22.13        | 22.37        | 22.19        | 23.00   |
|                  |            | 50      | 0         | 21.36        | 20.99        | 20.99        | 22.00   |
|                  |            | 50      | 25        | 21.19        | 21.02        | 21.35        | 22.00   |
|                  |            | 50      | 50        | 21.04        | 21.10        | 21.15        | 22.00   |
|                  |            | 100     | 0         | 21.32        | 21.02        | 21.40        | 22.00   |



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| LTE Band 2 Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz               | QPSK       | 1       | 0         | 23.24                | 23.11   | 23.03   | 24.50   |
|                      |            | 1       | 2         | 23.04                | 23.01   | 23.07   | 24.50   |
|                      |            | 1       | 5         | 23.01                | 23.02   | 23.01   | 24.50   |
|                      |            | 3       | 0         | 23.22                | 23.23   | 23.20   | 24.50   |
|                      |            | 3       | 2         | 23.28                | 23.17   | 23.28   | 24.50   |
|                      |            | 3       | 3         | 23.22                | 23.19   | 23.32   | 24.50   |
|                      |            | 6       | 0         | 22.64                | 22.75   | 22.71   | 23.50   |
|                      | 16QAM      | 1       | 0         | 22.58                | 22.63   | 22.65   | 23.50   |
|                      |            | 1       | 2         | 22.82                | 22.72   | 22.67   | 23.50   |
|                      |            | 1       | 5         | 22.57                | 22.59   | 22.64   | 23.50   |
|                      |            | 3       | 0         | 22.56                | 22.61   | 22.69   | 23.50   |
|                      |            | 3       | 2         | 22.59                | 22.59   | 22.61   | 23.50   |
|                      |            | 3       | 3         | 22.55                | 22.54   | 22.54   | 23.50   |
|                      |            | 6       | 0         | 21.76                | 21.70   | 21.83   | 22.50   |
|                      | 64QAM      | 1       | 0         | 21.90                | 21.89   | 21.73   | 22.50   |
|                      |            | 1       | 2         | 21.92                | 21.61   | 21.90   | 22.50   |
|                      |            | 1       | 5         | 21.82                | 21.48   | 21.95   | 22.50   |
|                      |            | 3       | 0         | 21.93                | 21.90   | 21.87   | 22.50   |
|                      |            | 3       | 2         | 21.62                | 21.55   | 21.50   | 22.50   |
|                      |            | 3       | 3         | 21.52                | 21.78   | 21.69   | 22.50   |
|                      |            | 6       | 0         | 20.65                | 20.63   | 20.61   | 21.50   |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                 | QPSK       | 1       | 0         | 23.19                | 23.11   | 23.19   | 24.50   |
|                      |            | 1       | 7         | 23.21                | 23.21   | 23.17   | 24.50   |
|                      |            | 1       | 14        | 23.21                | 23.13   | 23.25   | 24.50   |
|                      |            | 8       | 0         | 22.72                | 22.62   | 22.71   | 23.50   |
|                      |            | 8       | 4         | 22.69                | 22.62   | 22.68   | 23.50   |
|                      |            | 8       | 7         | 22.68                | 22.64   | 22.65   | 23.50   |
|                      |            | 15      | 0         | 22.63                | 22.59   | 22.63   | 23.50   |
|                      | 16QAM      | 1       | 0         | 22.81                | 22.88   | 22.78   | 23.50   |
|                      |            | 1       | 7         | 22.81                | 22.99   | 22.90   | 23.50   |
|                      |            | 1       | 14        | 22.91                | 22.89   | 22.84   | 23.50   |
|                      |            | 8       | 0         | 21.78                | 21.66   | 21.71   | 22.50   |
|                      |            | 8       | 4         | 21.78                | 21.75   | 21.77   | 22.50   |
|                      |            | 8       | 7         | 21.72                | 21.70   | 21.80   | 22.50   |
|                      |            | 15      | 0         | 21.66                | 21.69   | 21.73   | 22.50   |
|                      | 64QAM      | 1       | 0         | 21.94                | 21.88   | 21.64   | 22.50   |
|                      |            | 1       | 7         | 21.87                | 21.68   | 21.46   | 22.50   |
|                      |            | 1       | 14        | 21.50                | 21.58   | 21.71   | 22.50   |
|                      |            | 8       | 0         | 20.70                | 20.72   | 20.71   | 21.50   |
|                      |            | 8       | 4         | 20.69                | 20.83   | 20.59   | 21.50   |
|                      |            | 8       | 7         | 20.69                | 20.61   | 20.63   | 21.50   |
|                      |            | 15      | 0         | 20.53                | 20.57   | 20.60   | 21.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.19   | 23.22   | 23.21   | 24.50   |
|           |            | 1       | 13        | 23.15   | 23.20   | 23.18   | 24.50   |
|           |            | 1       | 24        | 23.13   | 23.20   | 23.23   | 24.50   |
|           |            | 12      | 0         | 22.64   | 22.67   | 22.71   | 23.50   |
|           |            | 12      | 6         | 22.68   | 22.64   | 22.71   | 23.50   |
|           |            | 12      | 13        | 22.67   | 22.67   | 22.71   | 23.50   |
|           |            | 25      | 0         | 22.66   | 22.67   | 22.69   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.84   | 22.93   | 22.97   | 23.50   |
|           |            | 1       | 13        | 22.93   | 22.92   | 23.00   | 23.50   |
|           |            | 1       | 24        | 22.89   | 22.93   | 22.93   | 23.50   |
|           |            | 12      | 0         | 21.65   | 21.65   | 21.62   | 22.50   |
|           |            | 12      | 6         | 21.68   | 21.73   | 21.65   | 22.50   |
|           |            | 12      | 13        | 21.67   | 21.67   | 21.69   | 22.50   |
|           |            | 25      | 0         | 21.74   | 21.67   | 21.69   | 22.50   |
|           | 64QAM      | 1       | 0         | 21.77   | 21.54   | 21.53   | 22.50   |
|           |            | 1       | 13        | 21.63   | 21.86   | 21.67   | 22.50   |
|           |            | 1       | 24        | 21.62   | 21.66   | 21.48   | 22.50   |
|           |            | 12      | 0         | 20.46   | 20.51   | 20.89   | 21.50   |
|           |            | 12      | 6         | 20.64   | 20.88   | 20.87   | 21.50   |
|           |            | 12      | 13        | 20.60   | 20.57   | 20.55   | 21.50   |
|           |            | 25      | 0         | 20.49   | 20.49   | 20.68   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.07   | 23.15   | 23.09   | 24.50   |
|           |            | 1       | 25        | 23.06   | 23.13   | 23.14   | 24.50   |
|           |            | 1       | 49        | 23.15   | 23.07   | 23.14   | 24.50   |
|           |            | 25      | 0         | 22.65   | 22.61   | 22.67   | 23.50   |
|           |            | 25      | 13        | 22.63   | 22.72   | 22.70   | 23.50   |
|           |            | 25      | 25        | 22.63   | 22.66   | 22.73   | 23.50   |
|           |            | 50      | 0         | 22.71   | 22.73   | 22.69   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.81   | 22.90   | 22.97   | 23.50   |
|           |            | 1       | 25        | 22.92   | 22.82   | 22.90   | 23.50   |
|           |            | 1       | 49        | 22.81   | 22.85   | 22.79   | 23.50   |
|           |            | 25      | 0         | 21.68   | 21.65   | 21.67   | 22.50   |
|           |            | 25      | 13        | 21.71   | 21.75   | 21.70   | 22.50   |
|           |            | 25      | 25        | 21.61   | 21.68   | 21.77   | 22.50   |
|           |            | 50      | 0         | 21.72   | 21.66   | 21.71   | 22.50   |
|           | 64QAM      | 1       | 0         | 21.91   | 21.77   | 21.93   | 22.50   |
|           |            | 1       | 25        | 21.69   | 21.76   | 21.69   | 22.50   |
|           |            | 1       | 49        | 21.98   | 21.55   | 21.72   | 22.50   |
|           |            | 25      | 0         | 20.90   | 20.90   | 20.91   | 21.50   |
|           |            | 25      | 13        | 20.55   | 20.45   | 20.56   | 21.50   |
|           |            | 25      | 25        | 20.90   | 20.62   | 20.81   | 21.50   |
|           |            | 50      | 0         | 20.79   | 20.86   | 20.74   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.19   | 23.11   | 23.13   | 24.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 23.15   | 23.21   | 23.10   | 24.50   |
|           |            | 1       | 74        | 23.13   | 23.10   | 23.13   | 24.50   |
|           |            | 36      | 0         | 22.63   | 22.53   | 22.66   | 23.50   |
|           |            | 36      | 18        | 22.66   | 22.61   | 22.66   | 23.50   |
|           |            | 36      | 39        | 22.67   | 22.65   | 22.71   | 23.50   |
|           |            | 75      | 0         | 22.66   | 22.65   | 22.68   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.89   | 22.95   | 22.90   | 23.50   |
|           |            | 1       | 38        | 22.88   | 22.88   | 22.87   | 23.50   |
|           |            | 1       | 74        | 22.93   | 22.83   | 22.87   | 23.50   |
|           |            | 36      | 0         | 21.70   | 21.62   | 21.72   | 22.50   |
|           |            | 36      | 18        | 21.63   | 21.57   | 21.75   | 22.50   |
|           |            | 36      | 39        | 21.64   | 21.62   | 21.79   | 22.50   |
|           | 64QAM      | 75      | 0         | 21.66   | 21.63   | 21.62   | 22.50   |
|           |            | 1       | 0         | 21.71   | 21.55   | 21.50   | 22.50   |
|           |            | 1       | 38        | 21.46   | 21.89   | 21.96   | 22.50   |
|           |            | 1       | 74        | 21.80   | 21.45   | 21.54   | 22.50   |
|           |            | 36      | 0         | 20.89   | 20.59   | 20.66   | 21.50   |
|           |            | 36      | 18        | 20.54   | 20.58   | 20.68   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.07   | 23.18   | 22.97   | 24.50   |
|           |            | 1       | 50        | 23.15   | 23.17   | 23.01   | 24.50   |
|           |            | 1       | 99        | 23.01   | 23.04   | 23.04   | 24.50   |
|           |            | 50      | 0         | 22.69   | 22.76   | 22.73   | 23.50   |
|           |            | 50      | 25        | 22.69   | 22.62   | 22.63   | 23.50   |
|           |            | 50      | 50        | 22.62   | 22.70   | 22.68   | 23.50   |
|           | 16QAM      | 100     | 0         | 22.86   | 22.59   | 22.76   | 23.50   |
|           |            | 1       | 0         | 22.89   | 22.93   | 22.75   | 23.50   |
|           |            | 1       | 50        | 22.87   | 22.92   | 22.87   | 23.50   |
|           |            | 1       | 99        | 22.81   | 22.78   | 22.83   | 23.50   |
|           |            | 50      | 0         | 21.68   | 21.63   | 21.69   | 22.50   |
|           |            | 50      | 25        | 21.69   | 21.60   | 21.65   | 22.50   |
|           | 64QAM      | 50      | 50        | 21.65   | 21.63   | 21.72   | 22.50   |
|           |            | 100     | 0         | 21.65   | 21.62   | 21.72   | 22.50   |
|           |            | 1       | 0         | 21.79   | 21.48   | 21.67   | 22.50   |
|           |            | 1       | 50        | 21.88   | 21.81   | 21.55   | 22.50   |
|           |            | 1       | 99        | 21.64   | 21.82   | 21.69   | 22.50   |
|           |            | 50      | 0         | 20.81   | 20.46   | 20.46   | 21.50   |
|           |            | 50      | 25        | 20.69   | 20.57   | 20.80   | 21.50   |
|           |            | 50      | 50        | 20.56   | 20.55   | 20.68   | 21.50   |
|           |            | 100     | 0         | 20.77   | 20.56   | 20.90   | 21.50   |



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| LTE Band 2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 19.71                | 19.75   | 19.68   | 20.50   |
|                       |            | 1       | 2         | 19.68                | 19.74   | 19.66   | 20.50   |
|                       |            | 1       | 5         | 19.67                | 19.33   | 19.71   | 20.50   |
|                       |            | 3       | 0         | 19.09                | 19.05   | 19.00   | 20.50   |
|                       |            | 3       | 2         | 18.95                | 18.89   | 18.98   | 20.50   |
|                       |            | 3       | 3         | 18.91                | 18.90   | 18.95   | 20.50   |
|                       |            | 6       | 0         | 19.08                | 19.08   | 19.05   | 20.50   |
|                       | 16QAM      | 1       | 0         | 19.18                | 19.13   | 19.14   | 20.50   |
|                       |            | 1       | 2         | 19.06                | 18.94   | 19.19   | 20.50   |
|                       |            | 1       | 5         | 19.08                | 19.11   | 19.10   | 20.50   |
|                       |            | 3       | 0         | 19.01                | 19.05   | 19.08   | 20.50   |
|                       |            | 3       | 2         | 19.04                | 19.04   | 19.09   | 20.50   |
|                       |            | 3       | 3         | 19.03                | 19.02   | 19.12   | 20.50   |
|                       |            | 6       | 0         | 19.02                | 19.03   | 19.09   | 20.50   |
|                       | 64QAM      | 1       | 0         | 19.12                | 19.39   | 19.25   | 20.50   |
|                       |            | 1       | 2         | 19.27                | 19.41   | 19.45   | 20.50   |
|                       |            | 1       | 5         | 19.30                | 19.30   | 19.24   | 20.50   |
|                       |            | 3       | 0         | 19.33                | 19.03   | 19.25   | 20.50   |
|                       |            | 3       | 2         | 19.31                | 19.12   | 19.13   | 20.50   |
|                       |            | 3       | 3         | 19.35                | 19.21   | 18.99   | 20.50   |
|                       |            | 6       | 0         | 19.17                | 19.24   | 19.18   | 20.50   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                  | QPSK       | 1       | 0         | 19.77                | 19.27   | 19.78   | 20.50   |
|                       |            | 1       | 7         | 19.67                | 19.68   | 19.30   | 20.50   |
|                       |            | 1       | 14        | 19.68                | 19.77   | 19.77   | 20.50   |
|                       |            | 8       | 0         | 19.15                | 19.11   | 19.09   | 20.50   |
|                       |            | 8       | 4         | 19.13                | 19.03   | 19.12   | 20.50   |
|                       |            | 8       | 7         | 19.13                | 19.06   | 19.12   | 20.50   |
|                       |            | 15      | 0         | 19.13                | 19.12   | 19.20   | 20.50   |
|                       | 16QAM      | 1       | 0         | 19.15                | 19.05   | 19.04   | 20.50   |
|                       |            | 1       | 7         | 18.98                | 19.13   | 19.03   | 20.50   |
|                       |            | 1       | 14        | 19.10                | 19.07   | 19.16   | 20.50   |
|                       |            | 8       | 0         | 19.02                | 19.09   | 19.13   | 20.50   |
|                       |            | 8       | 4         | 19.05                | 19.01   | 19.09   | 20.50   |
|                       |            | 8       | 7         | 19.00                | 19.03   | 19.04   | 20.50   |
|                       |            | 15      | 0         | 19.06                | 19.03   | 19.10   | 20.50   |
|                       | 64QAM      | 1       | 0         | 19.15                | 19.02   | 19.16   | 20.50   |
|                       |            | 1       | 7         | 19.32                | 19.31   | 19.35   | 20.50   |
|                       |            | 1       | 14        | 19.17                | 19.31   | 19.11   | 20.50   |
|                       |            | 8       | 0         | 19.26                | 19.36   | 19.02   | 20.50   |
|                       |            | 8       | 4         | 19.42                | 19.04   | 19.17   | 20.50   |
|                       |            | 8       | 7         | 19.05                | 19.19   | 19.22   | 20.50   |
|                       |            | 15      | 0         | 19.09                | 19.08   | 19.07   | 20.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.75   | 19.42   | 19.82   | 20.50   |
|           |            | 1       | 13        | 19.77   | 19.82   | 19.79   | 20.50   |
|           |            | 1       | 24        | 19.73   | 19.75   | 19.77   | 20.50   |
|           |            | 12      | 0         | 19.11   | 19.10   | 19.07   | 20.50   |
|           |            | 12      | 6         | 19.12   | 19.12   | 19.09   | 20.50   |
|           |            | 12      | 13        | 19.03   | 19.07   | 19.09   | 20.50   |
|           |            | 25      | 0         | 19.19   | 19.15   | 19.15   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.15   | 19.16   | 19.18   | 20.50   |
|           |            | 1       | 13        | 19.20   | 19.07   | 19.19   | 20.50   |
|           |            | 1       | 24        | 19.14   | 19.17   | 19.21   | 20.50   |
|           |            | 12      | 0         | 19.13   | 19.09   | 19.05   | 20.50   |
|           |            | 12      | 6         | 19.11   | 19.07   | 19.12   | 20.50   |
|           |            | 12      | 13        | 19.08   | 19.12   | 19.16   | 20.50   |
|           |            | 25      | 0         | 19.16   | 19.16   | 19.13   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.20   | 19.24   | 19.11   | 20.50   |
|           |            | 1       | 13        | 19.29   | 19.35   | 19.22   | 20.50   |
|           |            | 1       | 24        | 19.02   | 19.38   | 19.24   | 20.50   |
|           |            | 12      | 0         | 18.98   | 19.14   | 19.45   | 20.50   |
|           |            | 12      | 6         | 19.26   | 19.06   | 19.17   | 20.50   |
|           |            | 12      | 13        | 18.99   | 19.29   | 19.02   | 20.50   |
|           |            | 25      | 0         | 19.10   | 19.42   | 19.25   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.71   | 19.89   | 19.83   | 20.50   |
|           |            | 1       | 25        | 19.74   | 19.83   | 19.86   | 20.50   |
|           |            | 1       | 49        | 19.83   | 19.75   | 19.77   | 20.50   |
|           |            | 25      | 0         | 19.19   | 19.14   | 19.17   | 20.50   |
|           |            | 25      | 13        | 19.14   | 19.23   | 19.16   | 20.50   |
|           |            | 25      | 25        | 19.12   | 19.20   | 19.29   | 20.50   |
|           |            | 50      | 0         | 19.17   | 19.05   | 19.10   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.09   | 19.06   | 19.07   | 20.50   |
|           |            | 1       | 25        | 19.10   | 19.10   | 19.16   | 20.50   |
|           |            | 1       | 49        | 19.05   | 19.05   | 19.15   | 20.50   |
|           |            | 25      | 0         | 19.20   | 19.09   | 19.13   | 20.50   |
|           |            | 25      | 13        | 19.13   | 19.09   | 19.12   | 20.50   |
|           |            | 25      | 25        | 19.05   | 19.09   | 19.19   | 20.50   |
|           |            | 50      | 0         | 19.12   | 19.09   | 19.19   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.01   | 19.42   | 19.06   | 20.50   |
|           |            | 1       | 25        | 18.98   | 19.25   | 19.12   | 20.50   |
|           |            | 1       | 49        | 19.40   | 19.15   | 19.02   | 20.50   |
|           |            | 25      | 0         | 18.98   | 19.28   | 19.36   | 20.50   |
|           |            | 25      | 13        | 19.11   | 19.29   | 19.08   | 20.50   |
|           |            | 25      | 25        | 19.41   | 19.41   | 19.44   | 20.50   |
|           |            | 50      | 0         | 19.45   | 19.15   | 19.34   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.71   | 19.75   | 19.83   | 20.50   |



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|                  |            |         |           |              |              |              |         |
|------------------|------------|---------|-----------|--------------|--------------|--------------|---------|
|                  |            | 1       | 38        | 19.85        | 19.83        | 19.83        | 20.50   |
|                  |            | 1       | 74        | 19.82        | 19.65        | 19.76        | 20.50   |
|                  |            | 36      | 0         | 19.14        | 19.09        | 19.14        | 20.50   |
|                  |            | 36      | 18        | 19.13        | 19.06        | 19.17        | 20.50   |
|                  |            | 36      | 39        | 19.05        | 19.19        | 19.22        | 20.50   |
|                  |            | 75      | 0         | 19.18        | 19.11        | 19.06        | 20.50   |
|                  | 16QAM      | 1       | 0         | 19.21        | 18.97        | 19.05        | 20.50   |
|                  |            | 1       | 38        | 19.03        | 19.18        | 19.07        | 20.50   |
|                  |            | 1       | 74        | 19.08        | 19.06        | 19.22        | 20.50   |
|                  |            | 36      | 0         | 19.16        | 19.07        | 19.14        | 20.50   |
|                  |            | 36      | 18        | 19.10        | 19.10        | 19.18        | 20.50   |
|                  |            | 36      | 39        | 19.12        | 19.07        | 19.24        | 20.50   |
|                  | 64QAM      | 75      | 0         | 19.17        | 19.03        | 19.11        | 20.50   |
|                  |            | 1       | 0         | 19.45        | 19.34        | 19.34        | 20.50   |
|                  |            | 1       | 38        | 19.46        | 19.10        | 19.05        | 20.50   |
|                  |            | 1       | 74        | 19.46        | 19.43        | 19.32        | 20.50   |
|                  |            | 36      | 0         | 19.36        | 19.36        | 19.14        | 20.50   |
|                  |            | 36      | 18        | 19.40        | 19.45        | 19.22        | 20.50   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|                  |            |         |           | 18700        | 18900        | 19100        |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 19.26        | 19.73        | 19.31        | 20.50   |
|                  |            | 1       | 50        | 19.71        | 19.41        | 19.49        | 20.50   |
|                  |            | 1       | 99        | 19.68        | 19.64        | 19.38        | 20.50   |
|                  |            | 50      | 0         | <b>19.21</b> | <b>19.26</b> | <b>19.16</b> | 20.50   |
|                  |            | 50      | 25        | 19.15        | 19.14        | 19.06        | 20.50   |
|                  |            | 50      | 50        | 19.10        | 19.15        | 19.12        | 20.50   |
|                  | 16QAM      | 100     | 0         | <b>19.19</b> | 19.06        | 19.15        | 20.50   |
|                  |            | 1       | 0         | 19.06        | 19.03        | 18.90        | 20.50   |
|                  |            | 1       | 50        | 19.12        | 19.08        | 19.05        | 20.50   |
|                  |            | 1       | 99        | 18.98        | 18.99        | 19.02        | 20.50   |
|                  |            | 50      | 0         | 19.21        | 19.04        | 19.16        | 20.50   |
|                  |            | 50      | 25        | 19.12        | 19.09        | 19.12        | 20.50   |
|                  | 64QAM      | 50      | 50        | 19.10        | 19.12        | 19.19        | 20.50   |
|                  |            | 100     | 0         | 19.14        | 19.12        | 19.16        | 20.50   |
|                  |            | 1       | 0         | 19.17        | 19.29        | 19.40        | 20.50   |
|                  |            | 1       | 50        | 19.13        | 19.29        | 19.28        | 20.50   |
|                  |            | 1       | 99        | 19.08        | 19.17        | 19.03        | 20.50   |
|                  |            | 50      | 0         | 19.07        | 19.03        | 19.19        | 20.50   |
|                  |            | 50      | 25        | 19.05        | 19.11        | 19.22        | 20.50   |
|                  |            | 50      | 50        | 19.32        | 19.37        | 19.16        | 20.50   |
|                  |            | 100     | 0         | 19.45        | 19.41        | 19.09        | 20.50   |



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| LTE Band 4 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                 | QPSK       | 1       | 0         | 23.99                | 23.79   | 23.79   | 25.00   |
|                        |            | 1       | 2         | 23.64                | 23.64   | 23.82   | 25.00   |
|                        |            | 1       | 5         | 23.42                | 23.79   | 23.44   | 25.00   |
|                        |            | 3       | 0         | 23.79                | 23.62   | 23.55   | 25.00   |
|                        |            | 3       | 2         | 23.60                | 23.72   | 23.67   | 25.00   |
|                        |            | 3       | 3         | 23.80                | 23.65   | 23.69   | 25.00   |
|                        |            | 6       | 0         | 22.73                | 22.75   | 22.66   | 24.00   |
|                        | 16QAM      | 1       | 0         | 22.79                | 22.68   | 22.59   | 24.00   |
|                        |            | 1       | 2         | 22.75                | 22.84   | 22.88   | 24.00   |
|                        |            | 1       | 5         | 22.93                | 22.93   | 22.89   | 24.00   |
|                        |            | 3       | 0         | 22.77                | 22.57   | 22.65   | 24.00   |
|                        |            | 3       | 2         | 22.73                | 22.67   | 22.46   | 24.00   |
|                        |            | 3       | 3         | 22.75                | 22.58   | 22.71   | 24.00   |
|                        |            | 6       | 0         | 21.78                | 21.73   | 21.74   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.64                | 21.70   | 21.60   | 23.00   |
|                        |            | 1       | 2         | 21.51                | 21.64   | 21.65   | 23.00   |
|                        |            | 1       | 5         | 21.63                | 21.65   | 21.60   | 23.00   |
|                        |            | 3       | 0         | 21.51                | 21.69   | 21.52   | 23.00   |
|                        |            | 3       | 2         | 21.54                | 21.64   | 21.61   | 23.00   |
|                        |            | 3       | 3         | 21.62                | 21.56   | 21.59   | 23.00   |
|                        |            | 6       | 0         | 20.54                | 20.58   | 20.70   | 22.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                   | QPSK       | 1       | 0         | 23.60                | 23.61   | 23.61   | 25.00   |
|                        |            | 1       | 7         | 23.79                | 23.80   | 23.53   | 25.00   |
|                        |            | 1       | 14        | 23.64                | 23.71   | 23.59   | 25.00   |
|                        |            | 8       | 0         | 22.70                | 22.68   | 22.57   | 24.00   |
|                        |            | 8       | 4         | 22.68                | 22.64   | 22.61   | 24.00   |
|                        |            | 8       | 7         | 22.65                | 22.62   | 22.55   | 24.00   |
|                        |            | 15      | 0         | 22.67                | 22.66   | 22.65   | 24.00   |
|                        | 16QAM      | 1       | 0         | 22.92                | 22.79   | 22.89   | 24.00   |
|                        |            | 1       | 7         | 22.92                | 22.97   | 22.83   | 24.00   |
|                        |            | 1       | 14        | 22.90                | 22.49   | 22.90   | 24.00   |
|                        |            | 8       | 0         | 21.82                | 21.78   | 21.72   | 23.00   |
|                        |            | 8       | 4         | 21.70                | 21.82   | 21.54   | 23.00   |
|                        |            | 8       | 7         | 21.81                | 21.77   | 21.74   | 23.00   |
|                        |            | 15      | 0         | 21.70                | 21.67   | 21.63   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.63                | 21.62   | 21.67   | 23.00   |
|                        |            | 1       | 7         | 21.65                | 21.69   | 21.63   | 23.00   |
|                        |            | 1       | 14        | 21.59                | 21.52   | 21.59   | 23.00   |
|                        |            | 8       | 0         | 20.57                | 20.63   | 20.52   | 22.00   |
|                        |            | 8       | 4         | 20.54                | 20.65   | 20.64   | 22.00   |
|                        |            | 8       | 7         | 20.57                | 20.62   | 20.59   | 22.00   |
|                        |            | 15      | 0         | 20.52                | 20.64   | 20.64   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.90   | 23.73   | 23.57   | 25.00   |
|           |            | 1       | 13        | 23.78   | 23.87   | 23.74   | 25.00   |
|           |            | 1       | 24        | 23.71   | 23.81   | 23.72   | 25.00   |
|           |            | 12      | 0         | 22.74   | 22.77   | 22.65   | 24.00   |
|           |            | 12      | 6         | 22.77   | 22.77   | 22.62   | 24.00   |
|           |            | 12      | 13        | 22.65   | 22.74   | 22.60   | 24.00   |
|           |            | 25      | 0         | 22.71   | 22.82   | 22.65   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.74   | 22.74   | 22.51   | 24.00   |
|           |            | 1       | 13        | 22.78   | 22.57   | 22.64   | 24.00   |
|           |            | 1       | 24        | 22.69   | 22.78   | 22.80   | 24.00   |
|           |            | 12      | 0         | 21.72   | 21.75   | 21.66   | 23.00   |
|           |            | 12      | 6         | 21.68   | 21.65   | 21.68   | 23.00   |
|           |            | 12      | 13        | 21.63   | 21.72   | 21.52   | 23.00   |
|           |            | 25      | 0         | 21.74   | 21.78   | 21.66   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.63   | 21.61   | 21.65   | 23.00   |
|           |            | 1       | 13        | 21.62   | 21.53   | 21.60   | 23.00   |
|           |            | 1       | 24        | 21.67   | 21.61   | 21.54   | 23.00   |
|           |            | 12      | 0         | 20.68   | 20.60   | 20.60   | 22.00   |
|           |            | 12      | 6         | 20.65   | 20.64   | 20.55   | 22.00   |
|           |            | 12      | 13        | 20.60   | 20.60   | 20.57   | 22.00   |
|           |            | 25      | 0         | 20.59   | 20.70   | 20.67   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.89   | 23.77   | 23.88   | 25.00   |
|           |            | 1       | 25        | 23.70   | 23.68   | 23.64   | 25.00   |
|           |            | 1       | 49        | 23.61   | 23.90   | 23.63   | 25.00   |
|           |            | 25      | 0         | 22.72   | 22.69   | 22.74   | 24.00   |
|           |            | 25      | 13        | 22.70   | 22.77   | 22.67   | 24.00   |
|           |            | 25      | 25        | 22.63   | 22.71   | 22.71   | 24.00   |
|           |            | 50      | 0         | 22.76   | 22.68   | 22.64   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.77   | 22.73   | 22.23   | 24.00   |
|           |            | 1       | 25        | 22.48   | 22.77   | 22.64   | 24.00   |
|           |            | 1       | 49        | 22.51   | 22.76   | 22.46   | 24.00   |
|           |            | 25      | 0         | 21.76   | 21.74   | 21.77   | 23.00   |
|           |            | 25      | 13        | 21.61   | 21.78   | 21.68   | 23.00   |
|           |            | 25      | 25        | 21.73   | 21.69   | 21.66   | 23.00   |
|           |            | 50      | 0         | 21.77   | 21.70   | 21.73   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.67   | 21.56   | 21.62   | 23.00   |
|           |            | 1       | 25        | 21.54   | 21.65   | 21.63   | 23.00   |
|           |            | 1       | 49        | 21.51   | 21.62   | 21.55   | 23.00   |
|           |            | 25      | 0         | 20.66   | 20.62   | 20.70   | 22.00   |
|           |            | 25      | 13        | 20.62   | 20.65   | 20.53   | 22.00   |
|           |            | 25      | 25        | 20.54   | 20.67   | 20.64   | 22.00   |
|           |            | 50      | 0         | 20.53   | 20.54   | 20.55   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.94   | 23.52   | 23.50   | 25.00   |



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|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  |                   | 1              | 38               | 23.57          | 23.66          | 23.83          | 25.00          |
|                  |                   | 1              | 74               | 23.85          | 23.50          | 23.57          | 25.00          |
|                  |                   | 36             | 0                | 22.73          | 22.58          | 22.75          | 24.00          |
|                  |                   | 36             | 18               | 22.70          | 22.67          | 22.62          | 24.00          |
|                  |                   | 36             | 39               | 22.65          | 22.68          | 22.57          | 24.00          |
|                  |                   | 75             | 0                | 22.73          | 22.68          | 22.65          | 24.00          |
|                  | 16QAM             | 1              | 0                | 22.67          | 22.61          | 22.70          | 24.00          |
|                  |                   | 1              | 38               | 22.72          | 22.69          | 22.79          | 24.00          |
|                  |                   | 1              | 74               | 22.73          | 22.73          | 22.70          | 24.00          |
|                  |                   | 36             | 0                | 21.68          | 21.63          | 21.74          | 23.00          |
|                  |                   | 36             | 18               | 21.68          | 21.72          | 21.58          | 23.00          |
|                  |                   | 36             | 39               | 21.69          | 21.64          | 21.62          | 23.00          |
|                  | 64QAM             | 75             | 0                | 21.65          | 21.69          | 21.61          | 23.00          |
|                  |                   | 1              | 0                | 21.56          | 21.58          | 21.62          | 23.00          |
|                  |                   | 1              | 38               | 21.52          | 21.62          | 21.64          | 23.00          |
|                  |                   | 1              | 74               | 21.68          | 21.67          | 21.56          | 23.00          |
|                  |                   | 36             | 0                | 20.53          | 20.58          | 20.60          | 22.00          |
|                  |                   | 36             | 18               | 20.66          | 20.70          | 20.51          | 22.00          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
|                  |                   |                |                  | 20050          | 20175          | 20300          |                |
| <b>20MHz</b>     | QPSK              | 1              | 0                | 23.66          | 23.58          | 23.67          | 25.00          |
|                  |                   | 1              | 50               | 23.83          | 23.89          | 23.82          | 25.00          |
|                  |                   | 1              | 99               | 23.58          | 23.52          | 23.54          | 25.00          |
|                  |                   | 50             | 0                | 22.65          | 22.90          | <b>22.90</b>   | 24.00          |
|                  |                   | 50             | 25               | 22.80          | 22.76          | 22.75          | 24.00          |
|                  |                   | 50             | 50               | 22.85          | 22.63          | 22.70          | 24.00          |
|                  | 16QAM             | 100            | 0                | 22.78          | 22.80          | 22.73          | 24.00          |
|                  |                   | 1              | 0                | 22.65          | 22.99          | 22.78          | 24.00          |
|                  |                   | 1              | 50               | 22.78          | 22.55          | 22.86          | 24.00          |
|                  |                   | 1              | 99               | 22.72          | 22.99          | 22.86          | 24.00          |
|                  |                   | 50             | 0                | 21.77          | 21.61          | 21.88          | 23.00          |
|                  |                   | 50             | 25               | 21.73          | 21.78          | 21.73          | 23.00          |
|                  | 64QAM             | 50             | 50               | 21.85          | 21.60          | 21.64          | 23.00          |
|                  |                   | 100            | 0                | 21.69          | 21.62          | 21.64          | 23.00          |
|                  |                   | 1              | 0                | 21.52          | 21.58          | 21.56          | 23.00          |
|                  |                   | 1              | 50               | 21.60          | 21.60          | 21.68          | 23.00          |
|                  |                   | 1              | 99               | 21.63          | 21.69          | 21.70          | 23.00          |
|                  |                   | 50             | 0                | 20.57          | 20.53          | 20.56          | 22.00          |
|                  |                   | 50             | 25               | 20.51          | 20.61          | 20.54          | 22.00          |
|                  |                   | 50             | 50               | 20.68          | 20.68          | 20.61          | 22.00          |
|                  |                   | 100            | 0                | 20.61          | 20.57          | 20.55          | 22.00          |



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| LTE Band 4 Receiver off/Hotspot off/Sensor off |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                      | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                                         | QPSK       | 1       | 0         | 22.67                | 22.71   | 22.73   | 24.00   |
|                                                |            | 1       | 2         | 22.67                | 22.70   | 22.94   | 24.00   |
|                                                |            | 1       | 5         | 22.67                | 22.72   | 22.76   | 24.00   |
|                                                |            | 3       | 0         | 22.83                | 22.77   | 22.78   | 24.00   |
|                                                |            | 3       | 2         | 22.77                | 22.81   | 22.75   | 24.00   |
|                                                |            | 3       | 3         | 22.81                | 22.83   | 22.79   | 24.00   |
|                                                |            | 6       | 0         | 22.88                | 22.85   | 22.79   | 24.00   |
|                                                | 16QAM      | 1       | 0         | 22.79                | 22.68   | 22.59   | 24.00   |
|                                                |            | 1       | 2         | 22.75                | 22.84   | 22.88   | 24.00   |
|                                                |            | 1       | 5         | 22.93                | 22.93   | 22.89   | 24.00   |
|                                                |            | 3       | 0         | 22.77                | 22.57   | 22.65   | 24.00   |
|                                                |            | 3       | 2         | 22.73                | 22.67   | 22.46   | 24.00   |
|                                                |            | 3       | 3         | 22.75                | 22.58   | 22.71   | 24.00   |
|                                                |            | 6       | 0         | 21.78                | 21.73   | 21.74   | 23.00   |
|                                                | 64QAM      | 1       | 0         | 21.64                | 21.70   | 21.60   | 23.00   |
|                                                |            | 1       | 2         | 21.51                | 21.64   | 21.65   | 23.00   |
|                                                |            | 1       | 5         | 21.63                | 21.65   | 21.60   | 23.00   |
|                                                |            | 3       | 0         | 21.51                | 21.69   | 21.52   | 23.00   |
|                                                |            | 3       | 2         | 21.54                | 21.64   | 21.61   | 23.00   |
|                                                |            | 3       | 3         | 21.62                | 21.56   | 21.59   | 23.00   |
|                                                |            | 6       | 0         | 20.54                | 20.58   | 20.70   | 22.00   |
| Bandwidth                                      | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                                           | QPSK       | 1       | 0         | 23.00                | 23.00   | 23.03   | 24.00   |
|                                                |            | 1       | 7         | 22.95                | 22.99   | 23.01   | 24.00   |
|                                                |            | 1       | 14        | 22.97                | 22.93   | 22.98   | 24.00   |
|                                                |            | 8       | 0         | 22.77                | 22.80   | 22.72   | 24.00   |
|                                                |            | 8       | 4         | 22.80                | 22.73   | 22.71   | 24.00   |
|                                                |            | 8       | 7         | 22.75                | 22.72   | 22.73   | 24.00   |
|                                                |            | 15      | 0         | 22.78                | 22.75   | 22.73   | 24.00   |
|                                                | 16QAM      | 1       | 0         | 22.92                | 22.79   | 22.89   | 24.00   |
|                                                |            | 1       | 7         | 22.92                | 22.97   | 22.83   | 24.00   |
|                                                |            | 1       | 14        | 22.90                | 22.49   | 22.90   | 24.00   |
|                                                |            | 8       | 0         | 21.82                | 21.78   | 21.72   | 23.00   |
|                                                |            | 8       | 4         | 21.70                | 21.82   | 21.54   | 23.00   |
|                                                |            | 8       | 7         | 21.81                | 21.77   | 21.74   | 23.00   |
|                                                |            | 15      | 0         | 21.70                | 21.67   | 21.63   | 23.00   |
|                                                | 64QAM      | 1       | 0         | 21.63                | 21.62   | 21.67   | 23.00   |
|                                                |            | 1       | 7         | 21.65                | 21.69   | 21.63   | 23.00   |
|                                                |            | 1       | 14        | 21.59                | 21.52   | 21.59   | 23.00   |
|                                                |            | 8       | 0         | 20.57                | 20.63   | 20.52   | 22.00   |
|                                                |            | 8       | 4         | 20.54                | 20.65   | 20.64   | 22.00   |
|                                                |            | 8       | 7         | 20.57                | 20.62   | 20.59   | 22.00   |
|                                                |            | 15      | 0         | 20.52                | 20.64   | 20.64   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.97   | 23.02   | 23.08   | 24.00   |
|           |            | 1       | 13        | 23.05   | 23.00   | 23.07   | 24.00   |
|           |            | 1       | 24        | 23.05   | 22.95   | 23.03   | 24.00   |
|           |            | 12      | 0         | 22.84   | 22.79   | 22.77   | 24.00   |
|           |            | 12      | 6         | 22.80   | 22.78   | 22.75   | 24.00   |
|           |            | 12      | 13        | 22.75   | 22.78   | 22.76   | 24.00   |
|           |            | 25      | 0         | 22.80   | 22.78   | 22.78   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.74   | 22.74   | 22.51   | 24.00   |
|           |            | 1       | 13        | 22.78   | 22.57   | 22.64   | 24.00   |
|           |            | 1       | 24        | 22.69   | 22.78   | 22.80   | 24.00   |
|           |            | 12      | 0         | 21.72   | 21.75   | 21.66   | 23.00   |
|           |            | 12      | 6         | 21.68   | 21.65   | 21.68   | 23.00   |
|           |            | 12      | 13        | 21.63   | 21.72   | 21.52   | 23.00   |
|           |            | 25      | 0         | 21.74   | 21.78   | 21.66   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.63   | 21.61   | 21.65   | 23.00   |
|           |            | 1       | 13        | 21.62   | 21.53   | 21.60   | 23.00   |
|           |            | 1       | 24        | 21.67   | 21.61   | 21.54   | 23.00   |
|           |            | 12      | 0         | 20.68   | 20.60   | 20.60   | 22.00   |
|           |            | 12      | 6         | 20.65   | 20.64   | 20.55   | 22.00   |
|           |            | 12      | 13        | 20.60   | 20.60   | 20.57   | 22.00   |
|           |            | 25      | 0         | 20.59   | 20.70   | 20.67   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.98   | 23.06   | 23.03   | 24.00   |
|           |            | 1       | 25        | 23.01   | 23.02   | 23.03   | 24.00   |
|           |            | 1       | 49        | 23.03   | 22.95   | 22.93   | 24.00   |
|           |            | 25      | 0         | 22.85   | 22.75   | 22.78   | 24.00   |
|           |            | 25      | 13        | 22.82   | 22.79   | 22.75   | 24.00   |
|           |            | 25      | 25        | 22.81   | 22.76   | 22.80   | 24.00   |
|           |            | 50      | 0         | 22.85   | 22.77   | 22.76   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.77   | 22.73   | 22.23   | 24.00   |
|           |            | 1       | 25        | 22.48   | 22.77   | 22.64   | 24.00   |
|           |            | 1       | 49        | 22.51   | 22.76   | 22.46   | 24.00   |
|           |            | 25      | 0         | 21.76   | 21.74   | 21.77   | 23.00   |
|           |            | 25      | 13        | 21.61   | 21.78   | 21.68   | 23.00   |
|           |            | 25      | 25        | 21.73   | 21.69   | 21.66   | 23.00   |
|           |            | 50      | 0         | 21.77   | 21.70   | 21.73   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.67   | 21.56   | 21.62   | 23.00   |
|           |            | 1       | 25        | 21.54   | 21.65   | 21.63   | 23.00   |
|           |            | 1       | 49        | 21.51   | 21.62   | 21.55   | 23.00   |
|           |            | 25      | 0         | 20.66   | 20.62   | 20.70   | 22.00   |
|           |            | 25      | 13        | 20.62   | 20.65   | 20.53   | 22.00   |
|           |            | 25      | 25        | 20.54   | 20.67   | 20.64   | 22.00   |
|           |            | 50      | 0         | 20.53   | 20.54   | 20.55   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.97   | 23.03   | 23.00   | 24.00   |



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|                  |            |         |           |              |              |              |         |
|------------------|------------|---------|-----------|--------------|--------------|--------------|---------|
|                  |            | 1       | 38        | 23.07        | 23.00        | 23.03        | 24.00   |
|                  |            | 1       | 74        | 23.03        | 22.92        | 22.94        | 24.00   |
|                  |            | 36      | 0         | 22.79        | 22.68        | 22.79        | 24.00   |
|                  |            | 36      | 18        | 22.77        | 22.73        | 22.73        | 24.00   |
|                  |            | 36      | 39        | 22.80        | 22.69        | 22.74        | 24.00   |
|                  |            | 75      | 0         | 22.79        | 22.72        | 22.73        | 24.00   |
|                  | 16QAM      | 1       | 0         | 22.67        | 22.61        | 22.70        | 24.00   |
|                  |            | 1       | 38        | 22.72        | 22.69        | 22.79        | 24.00   |
|                  |            | 1       | 74        | 22.73        | 22.73        | 22.70        | 24.00   |
|                  |            | 36      | 0         | 21.68        | 21.63        | 21.74        | 23.00   |
|                  |            | 36      | 18        | 21.68        | 21.72        | 21.58        | 23.00   |
|                  |            | 36      | 39        | 21.69        | 21.64        | 21.62        | 23.00   |
|                  | 64QAM      | 75      | 0         | 21.65        | 21.69        | 21.61        | 23.00   |
|                  |            | 1       | 0         | 21.56        | 21.58        | 21.62        | 23.00   |
|                  |            | 1       | 38        | 21.52        | 21.62        | 21.64        | 23.00   |
|                  |            | 1       | 74        | 21.68        | 21.67        | 21.56        | 23.00   |
|                  |            | 36      | 0         | 20.53        | 20.58        | 20.60        | 22.00   |
|                  |            | 36      | 18        | 20.66        | 20.70        | 20.51        | 22.00   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|                  |            |         |           | 20050        | 20175        | 20300        |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 22.94        | 23.09        | 22.96        | 24.00   |
|                  |            | 1       | 50        | <b>23.08</b> | 22.99        | <b>23.04</b> | 24.00   |
|                  |            | 1       | 99        | 22.93        | 22.89        | 22.92        | 24.00   |
|                  |            | 50      | 0         | 22.65        | <b>22.90</b> | <b>22.90</b> | 24.00   |
|                  |            | 50      | 25        | 22.80        | 22.76        | 22.75        | 24.00   |
|                  |            | 50      | 50        | <b>22.85</b> | 22.63        | 22.70        | 24.00   |
|                  |            | 100     | 0         | 22.78        | <b>22.80</b> | 22.73        | 24.00   |
|                  | 16QAM      | 1       | 0         | 22.65        | 22.99        | 22.78        | 24.00   |
|                  |            | 1       | 50        | 22.78        | 22.55        | 22.86        | 24.00   |
|                  |            | 1       | 99        | 22.72        | 22.99        | 22.86        | 24.00   |
|                  |            | 50      | 0         | 21.77        | 21.61        | 21.88        | 23.00   |
|                  |            | 50      | 25        | 21.73        | 21.78        | 21.73        | 23.00   |
|                  |            | 50      | 50        | 21.85        | 21.60        | 21.64        | 23.00   |
|                  | 64QAM      | 100     | 0         | 21.69        | 21.62        | 21.64        | 23.00   |
|                  |            | 1       | 0         | 21.52        | 21.58        | 21.56        | 23.00   |
|                  |            | 1       | 50        | 21.60        | 21.60        | 21.68        | 23.00   |
|                  |            | 1       | 99        | 21.63        | 21.69        | 21.70        | 23.00   |
|                  |            | 50      | 0         | 20.57        | 20.53        | 20.56        | 22.00   |
|                  |            | 50      | 25        | 20.51        | 20.61        | 20.54        | 22.00   |
|                  |            | 50      | 50        | 20.68        | 20.68        | 20.61        | 22.00   |
|                  |            | 100     | 0         | 20.61        | 20.57        | 20.55        | 22.00   |



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| LTE Band 4 Hotspot on/Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                          | QPSK       | 1       | 0         | 19.13                | 19.18   | 19.18   | 20.50   |
|                                 |            | 1       | 2         | 19.09                | 19.17   | 19.28   | 20.50   |
|                                 |            | 1       | 5         | 19.05                | 19.21   | 19.16   | 20.50   |
|                                 |            | 3       | 0         | 18.87                | 18.87   | 18.84   | 20.50   |
|                                 |            | 3       | 2         | 18.88                | 18.87   | 18.82   | 20.50   |
|                                 |            | 3       | 3         | 18.84                | 18.86   | 18.81   | 20.50   |
|                                 |            | 6       | 0         | 18.96                | 18.96   | 18.92   | 20.50   |
|                                 | 16QAM      | 1       | 0         | 18.81                | 18.81   | 18.78   | 20.50   |
|                                 |            | 1       | 2         | 18.84                | 18.85   | 18.83   | 20.50   |
|                                 |            | 1       | 5         | 18.77                | 18.82   | 18.79   | 20.50   |
|                                 |            | 3       | 0         | 18.83                | 18.84   | 18.81   | 20.50   |
|                                 |            | 3       | 2         | 18.87                | 18.85   | 18.85   | 20.50   |
|                                 |            | 3       | 3         | 18.84                | 18.85   | 18.84   | 20.50   |
|                                 |            | 6       | 0         | 18.86                | 18.88   | 18.84   | 20.50   |
|                                 | 64QAM      | 1       | 0         | 19.12                | 19.15   | 18.78   | 20.50   |
|                                 |            | 1       | 2         | 19.14                | 18.89   | 18.94   | 20.50   |
|                                 |            | 1       | 5         | 18.95                | 19.02   | 18.93   | 20.50   |
|                                 |            | 3       | 0         | 18.81                | 19.01   | 19.04   | 20.50   |
|                                 |            | 3       | 2         | 19.10                | 18.69   | 18.89   | 20.50   |
|                                 |            | 3       | 3         | 19.11                | 18.77   | 18.69   | 20.50   |
|                                 |            | 6       | 0         | 18.76                | 18.83   | 18.72   | 20.50   |
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                            | QPSK       | 1       | 0         | 19.15                | 19.16   | 19.17   | 20.50   |
|                                 |            | 1       | 7         | 19.12                | 19.18   | 19.15   | 20.50   |
|                                 |            | 1       | 14        | 19.13                | 19.03   | 19.15   | 20.50   |
|                                 |            | 8       | 0         | 18.92                | 18.93   | 18.90   | 20.50   |
|                                 |            | 8       | 4         | 18.90                | 18.91   | 18.88   | 20.50   |
|                                 |            | 8       | 7         | 18.89                | 18.87   | 18.89   | 20.50   |
|                                 |            | 15      | 0         | 18.85                | 18.84   | 18.87   | 20.50   |
|                                 | 16QAM      | 1       | 0         | 18.80                | 18.82   | 18.77   | 20.50   |
|                                 |            | 1       | 7         | 18.81                | 18.80   | 18.77   | 20.50   |
|                                 |            | 1       | 14        | 18.84                | 18.80   | 18.78   | 20.50   |
|                                 |            | 8       | 0         | 18.83                | 18.83   | 18.86   | 20.50   |
|                                 |            | 8       | 4         | 18.82                | 18.81   | 18.85   | 20.50   |
|                                 |            | 8       | 7         | 18.82                | 18.80   | 18.83   | 20.50   |
|                                 |            | 15      | 0         | 18.85                | 18.80   | 18.83   | 20.50   |
|                                 | 64QAM      | 1       | 0         | 19.14                | 19.01   | 19.03   | 20.50   |
|                                 |            | 1       | 7         | 18.97                | 19.01   | 19.00   | 20.50   |
|                                 |            | 1       | 14        | 19.13                | 19.09   | 18.97   | 20.50   |
|                                 |            | 8       | 0         | 18.95                | 18.95   | 19.05   | 20.50   |
|                                 |            | 8       | 4         | 19.07                | 18.99   | 19.13   | 20.50   |
|                                 |            | 8       | 7         | 19.08                | 18.80   | 18.72   | 20.50   |
|                                 |            | 15      | 0         | 19.07                | 18.69   | 18.95   | 20.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.13   | 19.22   | 19.24   | 20.50   |
|           |            | 1       | 13        | 19.16   | 19.20   | 19.22   | 20.50   |
|           |            | 1       | 24        | 19.12   | 19.16   | 19.19   | 20.50   |
|           |            | 12      | 0         | 18.87   | 18.90   | 18.86   | 20.50   |
|           |            | 12      | 6         | 18.89   | 18.90   | 18.88   | 20.50   |
|           |            | 12      | 13        | 18.83   | 18.87   | 18.85   | 20.50   |
|           |            | 25      | 0         | 18.89   | 18.93   | 18.88   | 20.50   |
|           | 16QAM      | 1       | 0         | 18.87   | 18.86   | 18.86   | 20.50   |
|           |            | 1       | 13        | 18.87   | 18.84   | 18.84   | 20.50   |
|           |            | 1       | 24        | 18.85   | 18.86   | 18.82   | 20.50   |
|           |            | 12      | 0         | 18.87   | 18.87   | 18.89   | 20.50   |
|           |            | 12      | 6         | 18.86   | 18.89   | 18.86   | 20.50   |
|           |            | 12      | 13        | 18.83   | 18.90   | 18.86   | 20.50   |
|           |            | 25      | 0         | 18.86   | 18.90   | 18.88   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.12   | 19.16   | 19.14   | 20.50   |
|           |            | 1       | 13        | 18.86   | 18.88   | 18.87   | 20.50   |
|           |            | 1       | 24        | 18.91   | 18.90   | 18.70   | 20.50   |
|           |            | 12      | 0         | 18.78   | 18.80   | 18.71   | 20.50   |
|           |            | 12      | 6         | 18.85   | 19.06   | 19.07   | 20.50   |
|           |            | 12      | 13        | 18.75   | 19.00   | 18.95   | 20.50   |
|           |            | 25      | 0         | 18.99   | 19.09   | 18.79   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.12   | 19.16   | 19.22   | 20.50   |
|           |            | 1       | 25        | 19.19   | 19.21   | 19.24   | 20.50   |
|           |            | 1       | 49        | 19.16   | 19.14   | 19.16   | 20.50   |
|           |            | 25      | 0         | 18.89   | 18.89   | 18.89   | 20.50   |
|           |            | 25      | 13        | 18.90   | 18.90   | 18.89   | 20.50   |
|           |            | 25      | 25        | 18.80   | 18.88   | 18.90   | 20.50   |
|           |            | 50      | 0         | 18.89   | 18.89   | 18.87   | 20.50   |
|           | 16QAM      | 1       | 0         | 18.84   | 18.88   | 18.85   | 20.50   |
|           |            | 1       | 25        | 18.88   | 18.88   | 18.85   | 20.50   |
|           |            | 1       | 49        | 18.83   | 18.82   | 18.78   | 20.50   |
|           |            | 25      | 0         | 18.86   | 18.83   | 18.91   | 20.50   |
|           |            | 25      | 13        | 18.89   | 18.92   | 18.85   | 20.50   |
|           |            | 25      | 25        | 18.82   | 18.87   | 18.89   | 20.50   |
|           |            | 50      | 0         | 18.89   | 18.87   | 18.88   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.09   | 18.72   | 18.78   | 20.50   |
|           |            | 1       | 25        | 18.94   | 19.02   | 19.15   | 20.50   |
|           |            | 1       | 49        | 18.79   | 18.83   | 19.07   | 20.50   |
|           |            | 25      | 0         | 18.82   | 18.86   | 19.00   | 20.50   |
|           |            | 25      | 13        | 18.92   | 18.89   | 18.78   | 20.50   |
|           |            | 25      | 25        | 18.88   | 18.72   | 19.02   | 20.50   |
|           |            | 50      | 0         | 18.83   | 18.70   | 19.12   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.15   | 19.20   | 19.16   | 20.50   |



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|                  |            |         |           |              |              |              |         |
|------------------|------------|---------|-----------|--------------|--------------|--------------|---------|
|                  |            | 1       | 38        | 19.12        | 19.16        | 19.22        | 20.50   |
|                  |            | 1       | 74        | 19.07        | 19.14        | 19.12        | 20.50   |
|                  |            | 36      | 0         | 18.92        | 18.78        | 18.89        | 20.50   |
|                  |            | 36      | 18        | 18.86        | 18.85        | 18.90        | 20.50   |
|                  |            | 36      | 39        | 18.85        | 18.83        | 18.84        | 20.50   |
|                  |            | 75      | 0         | 18.82        | 18.83        | 18.83        | 20.50   |
|                  | 16QAM      | 1       | 0         | 18.80        | 18.86        | 18.80        | 20.50   |
|                  |            | 1       | 38        | 18.81        | 18.82        | 18.82        | 20.50   |
|                  |            | 1       | 74        | 18.75        | 18.79        | 18.76        | 20.50   |
|                  |            | 36      | 0         | 18.91        | 18.79        | 18.87        | 20.50   |
|                  |            | 36      | 18        | 18.85        | 18.83        | 18.87        | 20.50   |
|                  |            | 36      | 39        | 18.84        | 18.78        | 18.83        | 20.50   |
|                  | 64QAM      | 75      | 0         | 18.83        | 18.83        | 18.82        | 20.50   |
|                  |            | 1       | 0         | 18.92        | 19.05        | 19.08        | 20.50   |
|                  |            | 1       | 38        | 19.08        | 18.80        | 18.71        | 20.50   |
|                  |            | 1       | 74        | 18.96        | 18.68        | 19.06        | 20.50   |
|                  |            | 36      | 0         | 19.01        | 18.68        | 19.07        | 20.50   |
|                  |            | 36      | 18        | 18.78        | 18.86        | 18.83        | 20.50   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|                  |            |         |           | 20050        | 20175        | 20300        |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 19.15        | 19.15        | 19.13        | 20.50   |
|                  |            | 1       | 50        | <b>19.30</b> | 19.48        | <b>19.15</b> | 20.50   |
|                  |            | 1       | 99        | 19.11        | 19.10        | 19.09        | 20.50   |
|                  |            | 50      | 0         | 18.74        | <b>19.35</b> | <b>18.97</b> | 20.50   |
|                  |            | 50      | 25        | <b>18.93</b> | 18.87        | 18.87        | 20.50   |
|                  |            | 50      | 50        | 18.90        | 18.82        | 18.83        | 20.50   |
|                  | 16QAM      | 100     | 0         | 18.83        | <b>18.87</b> | 18.85        | 20.50   |
|                  |            | 1       | 0         | 18.79        | 18.74        | 18.84        | 20.50   |
|                  |            | 1       | 50        | 18.85        | 18.83        | 18.84        | 20.50   |
|                  |            | 1       | 99        | 18.71        | 18.70        | 18.71        | 20.50   |
|                  |            | 50      | 0         | 18.97        | 18.76        | 19.01        | 20.50   |
|                  |            | 50      | 25        | 18.90        | 18.88        | 18.87        | 20.50   |
|                  | 64QAM      | 50      | 50        | 18.93        | 18.83        | 18.81        | 20.50   |
|                  |            | 100     | 0         | 18.86        | 18.85        | 18.86        | 20.50   |
|                  |            | 1       | 0         | 19.14        | 18.71        | 18.75        | 20.50   |
|                  |            | 1       | 50        | 18.93        | 19.07        | 19.14        | 20.50   |
|                  |            | 1       | 99        | 18.79        | 18.81        | 18.87        | 20.50   |
|                  |            | 50      | 0         | 19.10        | 18.77        | 19.01        | 20.50   |
|                  |            | 50      | 25        | 18.93        | 18.80        | 18.80        | 20.50   |
|                  |            | 50      | 50        | 19.10        | 18.76        | 19.10        | 20.50   |
|                  |            | 100     | 0         | 18.90        | 19.07        | 18.70        | 20.50   |



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| LTE Band 5 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz     | QPSK       | 1       | 0         | 23.47                | 23.53   | 23.21   | 25.00   |
|            |            | 1       | 2         | 23.35                | 23.41   | 23.49   | 25.00   |
|            |            | 1       | 5         | 23.46                | 23.28   | 23.55   | 25.00   |
|            |            | 3       | 0         | 23.44                | 23.49   | 23.44   | 25.00   |
|            |            | 3       | 2         | 23.49                | 23.42   | 23.41   | 25.00   |
|            |            | 3       | 3         | 23.44                | 23.42   | 23.39   | 25.00   |
|            |            | 6       | 0         | 22.48                | 22.43   | 22.39   | 24.00   |
|            | 16QAM      | 1       | 0         | 22.74                | 22.83   | 22.69   | 24.00   |
|            |            | 1       | 2         | 22.86                | 22.93   | 22.82   | 24.00   |
|            |            | 1       | 5         | 22.86                | 22.50   | 22.81   | 24.00   |
|            |            | 3       | 0         | 22.47                | 22.32   | 22.42   | 24.00   |
|            |            | 3       | 2         | 22.44                | 22.42   | 22.42   | 24.00   |
|            |            | 3       | 3         | 22.36                | 22.46   | 22.38   | 24.00   |
|            |            | 6       | 0         | 21.47                | 21.47   | 21.60   | 23.00   |
|            | 64QAM      | 1       | 0         | 21.63                | 21.33   | 21.33   | 23.00   |
|            |            | 1       | 2         | 21.67                | 21.66   | 21.63   | 23.00   |
|            |            | 1       | 5         | 21.60                | 21.35   | 21.41   | 23.00   |
|            |            | 3       | 0         | 21.63                | 21.55   | 21.50   | 23.00   |
|            |            | 3       | 2         | 21.62                | 21.69   | 21.71   | 23.00   |
|            |            | 3       | 3         | 21.67                | 21.61   | 21.62   | 23.00   |
|            |            | 6       | 0         | 20.56                | 20.51   | 20.62   | 22.00   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz       | QPSK       | 1       | 0         | 23.36                | 23.40   | 23.31   | 25.00   |
|            |            | 1       | 7         | 23.35                | 23.31   | 23.34   | 25.00   |
|            |            | 1       | 14        | 23.42                | 23.41   | 23.31   | 25.00   |
|            |            | 8       | 0         | 22.43                | 22.46   | 22.32   | 24.00   |
|            |            | 8       | 4         | 22.37                | 22.35   | 22.39   | 24.00   |
|            |            | 8       | 7         | 22.43                | 22.36   | 22.37   | 24.00   |
|            |            | 15      | 0         | 22.40                | 22.45   | 22.33   | 24.00   |
|            | 16QAM      | 1       | 0         | 22.51                | 22.92   | 22.81   | 24.00   |
|            |            | 1       | 7         | 22.91                | 22.87   | 22.47   | 24.00   |
|            |            | 1       | 14        | 22.29                | 22.83   | 22.80   | 24.00   |
|            |            | 8       | 0         | 21.50                | 21.53   | 21.42   | 23.00   |
|            |            | 8       | 4         | 21.59                | 21.42   | 21.41   | 23.00   |
|            |            | 8       | 7         | 21.41                | 21.56   | 21.46   | 23.00   |
|            |            | 15      | 0         | 21.53                | 21.51   | 21.33   | 23.00   |
|            | 64QAM      | 1       | 0         | 21.54                | 21.37   | 21.57   | 23.00   |
|            |            | 1       | 7         | 21.52                | 21.55   | 21.55   | 23.00   |
|            |            | 1       | 14        | 21.57                | 21.57   | 21.56   | 23.00   |
|            |            | 8       | 0         | 20.40                | 20.37   | 20.39   | 22.00   |
|            |            | 8       | 4         | 20.42                | 20.37   | 20.39   | 22.00   |
|            |            | 8       | 7         | 20.38                | 20.36   | 20.33   | 22.00   |
|            |            | 15      | 0         | 20.47                | 20.36   | 20.44   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|-----------|------------|---------|-----------|---------|---------|--------------|---------|
|           |            |         |           | 20425   | 20525   | 20625        |         |
| 5MHz      | QPSK       | 1       | 0         | 23.47   | 23.43   | 23.44        | 25.00   |
|           |            | 1       | 13        | 23.47   | 23.63   | 23.34        | 25.00   |
|           |            | 1       | 24        | 23.46   | 23.42   | 23.36        | 25.00   |
|           |            | 12      | 0         | 22.44   | 22.56   | 22.49        | 24.00   |
|           |            | 12      | 6         | 22.47   | 22.48   | 22.42        | 24.00   |
|           |            | 12      | 13        | 22.46   | 22.42   | 22.42        | 24.00   |
|           |            | 25      | 0         | 22.40   | 22.41   | 22.38        | 24.00   |
|           | 16QAM      | 1       | 0         | 22.71   | 22.90   | 22.81        | 24.00   |
|           |            | 1       | 13        | 22.54   | 22.57   | 22.84        | 24.00   |
|           |            | 1       | 24        | 22.84   | 22.68   | 22.65        | 24.00   |
|           |            | 12      | 0         | 21.42   | 21.52   | 21.39        | 23.00   |
|           |            | 12      | 6         | 21.41   | 21.46   | 21.43        | 23.00   |
|           |            | 12      | 13        | 21.38   | 21.38   | 21.42        | 23.00   |
|           |            | 25      | 0         | 21.48   | 21.43   | 21.42        | 23.00   |
|           | 64QAM      | 1       | 0         | 21.44   | 21.30   | 21.26        | 23.00   |
|           |            | 1       | 13        | 21.46   | 21.37   | 21.51        | 23.00   |
|           |            | 1       | 24        | 21.41   | 21.14   | 21.18        | 23.00   |
|           |            | 12      | 0         | 20.41   | 20.33   | 20.37        | 22.00   |
|           |            | 12      | 6         | 20.42   | 20.38   | 20.28        | 22.00   |
|           |            | 12      | 13        | 20.32   | 20.29   | 20.30        | 22.00   |
|           |            | 25      | 0         | 20.41   | 20.31   | 20.22        | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|           |            |         |           | 20450   | 20525   | 20600        |         |
| 10MHz     | QPSK       | 1       | 0         | 23.61   | 23.59   | 23.59        | 25.00   |
|           |            | 1       | 25        | 23.57   | 23.59   | 23.62        | 25.00   |
|           |            | 1       | 49        | 23.61   | 23.52   | 23.51        | 25.00   |
|           |            | 25      | 0         | 23.09   | 23.16   | 23.14        | 24.00   |
|           |            | 25      | 13        | 23.12   | 23.12   | <b>23.16</b> | 24.00   |
|           |            | 25      | 25        | 23.10   | 23.12   | 23.08        | 24.00   |
|           |            | 50      | 0         | 23.11   | 23.19   | 23.14        | 24.00   |
|           | 16QAM      | 1       | 0         | 22.83   | 22.62   | 22.87        | 24.00   |
|           |            | 1       | 25        | 22.55   | 22.91   | 22.88        | 24.00   |
|           |            | 1       | 49        | 22.91   | 22.53   | 22.66        | 24.00   |
|           |            | 25      | 0         | 21.43   | 21.52   | 21.40        | 23.00   |
|           |            | 25      | 13        | 21.37   | 21.43   | 21.37        | 23.00   |
|           |            | 25      | 25        | 21.43   | 21.51   | 21.45        | 23.00   |
|           |            | 50      | 0         | 21.47   | 21.39   | 21.43        | 23.00   |
|           | 64QAM      | 1       | 0         | 21.64   | 21.43   | 21.46        | 23.00   |
|           |            | 1       | 25        | 21.61   | 21.74   | 21.58        | 23.00   |
|           |            | 1       | 49        | 21.66   | 21.45   | 21.65        | 23.00   |
|           |            | 25      | 0         | 20.68   | 20.50   | 20.51        | 22.00   |
|           |            | 25      | 13        | 20.56   | 20.60   | 20.54        | 22.00   |
|           |            | 25      | 25        | 20.50   | 20.56   | 20.49        | 22.00   |
|           |            | 50      | 0         | 20.60   | 20.53   | 20.43        | 22.00   |



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| LTE Band 7 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                   | QPSK       | 1       | 0         | 23.44                | 23.33   | 23.38   | 25.00   |
|                        |            | 1       | 13        | 23.41                | 23.35   | 23.29   | 25.00   |
|                        |            | 1       | 24        | 23.57                | 23.30   | 23.38   | 25.00   |
|                        |            | 12      | 0         | 22.42                | 22.24   | 22.37   | 24.00   |
|                        |            | 12      | 6         | 22.43                | 22.21   | 22.30   | 24.00   |
|                        |            | 12      | 13        | 22.40                | 22.17   | 22.25   | 24.00   |
|                        |            | 25      | 0         | 22.41                | 22.16   | 22.28   | 24.00   |
|                        | 16QAM      | 1       | 0         | 22.57                | 22.39   | 22.59   | 24.00   |
|                        |            | 1       | 13        | 22.46                | 22.54   | 22.72   | 24.00   |
|                        |            | 1       | 24        | 22.51                | 22.30   | 22.16   | 24.00   |
|                        |            | 12      | 0         | 21.33                | 21.14   | 21.37   | 23.00   |
|                        |            | 12      | 6         | 21.42                | 21.27   | 21.26   | 23.00   |
|                        |            | 12      | 13        | 21.52                | 21.11   | 21.28   | 23.00   |
|                        |            | 25      | 0         | 21.39                | 21.24   | 21.33   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.10                | 21.19   | 21.21   | 23.00   |
|                        |            | 1       | 13        | 21.10                | 21.19   | 21.28   | 23.00   |
|                        |            | 1       | 24        | 21.32                | 21.10   | 21.27   | 23.00   |
|                        |            | 12      | 0         | 20.07                | 20.10   | 20.19   | 22.00   |
|                        |            | 12      | 6         | 20.19                | 20.11   | 20.13   | 22.00   |
|                        |            | 12      | 13        | 20.14                | 20.09   | 20.22   | 22.00   |
|                        |            | 25      | 0         | 20.19                | 20.14   | 20.18   | 22.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                  | QPSK       | 1       | 0         | 23.51                | 23.28   | 23.16   | 25.00   |
|                        |            | 1       | 25        | 23.51                | 23.17   | 23.36   | 25.00   |
|                        |            | 1       | 49        | 23.63                | 23.32   | 23.46   | 25.00   |
|                        |            | 25      | 0         | 22.34                | 22.24   | 22.39   | 24.00   |
|                        |            | 25      | 13        | 22.50                | 22.17   | 22.27   | 24.00   |
|                        |            | 25      | 25        | 22.48                | 22.22   | 22.18   | 24.00   |
|                        |            | 50      | 0         | 22.43                | 22.29   | 22.29   | 24.00   |
|                        | 16QAM      | 1       | 0         | 22.20                | 22.60   | 22.45   | 24.00   |
|                        |            | 1       | 25        | 22.49                | 22.55   | 22.14   | 24.00   |
|                        |            | 1       | 49        | 22.89                | 22.11   | 22.64   | 24.00   |
|                        |            | 25      | 0         | 21.34                | 21.32   | 21.42   | 23.00   |
|                        |            | 25      | 13        | 21.46                | 21.32   | 21.34   | 23.00   |
|                        |            | 25      | 25        | 21.47                | 21.27   | 21.27   | 23.00   |
|                        |            | 50      | 0         | 21.50                | 21.32   | 21.37   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.21                | 21.12   | 21.30   | 23.00   |
|                        |            | 1       | 25        | 21.18                | 21.13   | 21.18   | 23.00   |
|                        |            | 1       | 49        | 21.26                | 21.30   | 21.26   | 23.00   |
|                        |            | 25      | 0         | 20.20                | 20.11   | 20.15   | 22.00   |
|                        |            | 25      | 13        | 20.20                | 20.09   | 20.13   | 22.00   |
|                        |            | 25      | 25        | 20.22                | 20.20   | 20.18   | 22.00   |
|                        |            | 50      | 0         | 20.21                | 20.21   | 20.20   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.50   | 23.12   | 23.30   | 25.00   |
|           |            | 1       | 38        | 23.40   | 23.42   | 23.19   | 25.00   |
|           |            | 1       | 74        | 23.65   | 23.10   | 23.34   | 25.00   |
|           |            | 36      | 0         | 22.31   | 22.22   | 22.24   | 24.00   |
|           |            | 36      | 18        | 22.47   | 22.24   | 22.30   | 24.00   |
|           |            | 36      | 39        | 22.51   | 22.16   | 22.26   | 24.00   |
|           |            | 75      | 0         | 22.44   | 22.26   | 22.24   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.36   | 22.55   | 22.27   | 24.00   |
|           |            | 1       | 38        | 22.70   | 22.64   | 22.56   | 24.00   |
|           |            | 1       | 74        | 22.75   | 22.57   | 22.59   | 24.00   |
|           |            | 36      | 0         | 21.29   | 21.31   | 21.25   | 23.00   |
|           |            | 36      | 18        | 21.49   | 21.28   | 21.30   | 23.00   |
|           |            | 36      | 39        | 21.56   | 21.18   | 21.26   | 23.00   |
|           |            | 75      | 0         | 21.40   | 21.25   | 21.30   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.17   | 21.09   | 21.10   | 23.00   |
|           |            | 1       | 38        | 21.21   | 21.32   | 21.20   | 23.00   |
|           |            | 1       | 74        | 21.24   | 21.30   | 21.17   | 23.00   |
|           |            | 36      | 0         | 20.09   | 20.17   | 20.14   | 22.00   |
|           |            | 36      | 18        | 20.20   | 20.07   | 20.08   | 22.00   |
|           |            | 36      | 39        | 20.21   | 20.22   | 20.18   | 22.00   |
|           |            | 75      | 0         | 20.15   | 20.10   | 20.13   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.49   | 23.30   | 23.04   | 25.00   |
|           |            | 1       | 50        | 23.42   | 23.55   | 23.28   | 25.00   |
|           |            | 1       | 99        | 23.39   | 23.28   | 23.32   | 25.00   |
|           |            | 50      | 0         | 22.33   | 22.29   | 22.33   | 24.00   |
|           |            | 50      | 25        | 22.51   | 22.29   | 22.35   | 24.00   |
|           |            | 50      | 50        | 22.58   | 22.17   | 22.19   | 24.00   |
|           |            | 100     | 0         | 22.39   | 22.33   | 22.33   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.11   | 22.61   | 22.13   | 24.00   |
|           |            | 1       | 50        | 22.73   | 22.12   | 22.55   | 24.00   |
|           |            | 1       | 99        | 22.57   | 22.46   | 22.33   | 24.00   |
|           |            | 50      | 0         | 21.38   | 21.26   | 21.24   | 23.00   |
|           |            | 50      | 25        | 21.58   | 21.31   | 21.23   | 23.00   |
|           |            | 50      | 50        | 21.55   | 21.18   | 21.19   | 23.00   |
|           |            | 100     | 0         | 21.45   | 21.23   | 21.29   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.24   | 21.31   | 21.27   | 23.00   |
|           |            | 1       | 50        | 21.21   | 21.16   | 21.29   | 23.00   |
|           |            | 1       | 99        | 21.16   | 21.32   | 21.16   | 23.00   |
|           |            | 50      | 0         | 20.07   | 20.21   | 20.10   | 22.00   |
|           |            | 50      | 25        | 20.13   | 20.17   | 20.09   | 22.00   |
|           |            | 50      | 50        | 20.20   | 20.20   | 20.07   | 22.00   |
|           |            | 100     | 0         | 20.10   | 20.10   | 20.08   | 22.00   |



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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| LTE Band 7 Receiver off/Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                                | QPSK       | 1       | 0         | 21.86                | 21.75   | 21.69   | 23.00   |
|                                     |            | 1       | 13        | 21.89                | 21.74   | 21.73   | 23.00   |
|                                     |            | 1       | 24        | 21.88                | 21.78   | 21.72   | 23.00   |
|                                     |            | 12      | 0         | 21.66                | 21.59   | 21.64   | 23.00   |
|                                     |            | 12      | 6         | 21.69                | 21.54   | 21.56   | 23.00   |
|                                     |            | 12      | 13        | 21.68                | 21.51   | 21.49   | 23.00   |
|                                     |            | 25      | 0         | 21.69                | 21.55   | 21.59   | 23.00   |
|                                     | 16QAM      | 1       | 0         | 21.68                | 21.55   | 21.51   | 23.00   |
|                                     |            | 1       | 13        | 21.69                | 21.54   | 21.57   | 23.00   |
|                                     |            | 1       | 24        | 21.70                | 21.55   | 21.57   | 23.00   |
|                                     |            | 12      | 0         | 21.67                | 21.59   | 21.64   | 23.00   |
|                                     |            | 12      | 6         | 21.71                | 21.55   | 21.59   | 23.00   |
|                                     |            | 12      | 13        | 21.73                | 21.49   | 21.49   | 23.00   |
|                                     |            | 25      | 0         | 21.68                | 21.53   | 21.56   | 23.00   |
|                                     | 64QAM      | 1       | 0         | 21.10                | 21.19   | 21.21   | 23.00   |
|                                     |            | 1       | 13        | 21.10                | 21.19   | 21.28   | 23.00   |
|                                     |            | 1       | 24        | 21.32                | 21.10   | 21.27   | 23.00   |
|                                     |            | 12      | 0         | 20.07                | 20.10   | 20.19   | 22.00   |
|                                     |            | 12      | 6         | 20.19                | 20.11   | 20.13   | 22.00   |
|                                     |            | 12      | 13        | 20.14                | 20.09   | 20.22   | 22.00   |
|                                     |            | 25      | 0         | 20.19                | 20.14   | 20.18   | 22.00   |
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                               | QPSK       | 1       | 0         | 21.85                | 21.72   | 21.64   | 23.00   |
|                                     |            | 1       | 25        | 21.88                | 21.78   | 21.72   | 23.00   |
|                                     |            | 1       | 49        | 21.90                | 21.76   | 21.77   | 23.00   |
|                                     |            | 25      | 0         | 21.61                | 21.62   | 21.66   | 23.00   |
|                                     |            | 25      | 13        | 21.73                | 21.54   | 21.56   | 23.00   |
|                                     |            | 25      | 25        | 21.84                | 21.55   | 21.44   | 23.00   |
|                                     |            | 50      | 0         | 21.70                | 21.56   | 21.54   | 23.00   |
|                                     | 16QAM      | 1       | 0         | 21.64                | 21.55   | 21.46   | 23.00   |
|                                     |            | 1       | 25        | 21.67                | 21.54   | 21.54   | 23.00   |
|                                     |            | 1       | 49        | 21.71                | 21.49   | 21.57   | 23.00   |
|                                     |            | 25      | 0         | 21.66                | 21.56   | 21.67   | 23.00   |
|                                     |            | 25      | 13        | 21.73                | 21.54   | 21.57   | 23.00   |
|                                     |            | 25      | 25        | 21.77                | 21.52   | 21.44   | 23.00   |
|                                     |            | 50      | 0         | 21.72                | 21.58   | 21.57   | 23.00   |
|                                     | 64QAM      | 1       | 0         | 21.21                | 21.12   | 21.30   | 23.00   |
|                                     |            | 1       | 25        | 21.18                | 21.13   | 21.18   | 23.00   |
|                                     |            | 1       | 49        | 21.26                | 21.30   | 21.26   | 23.00   |
|                                     |            | 25      | 0         | 20.20                | 20.11   | 20.15   | 22.00   |
|                                     |            | 25      | 13        | 20.20                | 20.09   | 20.13   | 22.00   |
|                                     |            | 25      | 25        | 20.22                | 20.20   | 20.18   | 22.00   |
|                                     |            | 50      | 0         | 20.21                | 20.21   | 20.20   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.82   | 21.71   | 21.62   | 23.00   |
|           |            | 1       | 38        | 21.94   | 21.78   | 21.74   | 23.00   |
|           |            | 1       | 74        | 21.99   | 21.78   | 21.77   | 23.00   |
|           |            | 36      | 0         | 21.59   | 21.52   | 21.47   | 23.00   |
|           |            | 36      | 18        | 21.75   | 21.51   | 21.53   | 23.00   |
|           |            | 36      | 39        | 21.79   | 21.47   | 21.47   | 23.00   |
|           |            | 75      | 0         | 21.72   | 21.50   | 21.55   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.64   | 21.50   | 21.36   | 23.00   |
|           |            | 1       | 38        | 21.69   | 21.57   | 21.54   | 23.00   |
|           |            | 1       | 74        | 21.77   | 21.52   | 21.60   | 23.00   |
|           |            | 36      | 0         | 21.60   | 21.56   | 21.49   | 23.00   |
|           |            | 36      | 18        | 21.68   | 21.53   | 21.53   | 23.00   |
|           |            | 36      | 39        | 21.78   | 21.52   | 21.45   | 23.00   |
|           |            | 75      | 0         | 21.72   | 21.53   | 21.51   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.17   | 21.09   | 21.10   | 23.00   |
|           |            | 1       | 38        | 21.21   | 21.32   | 21.20   | 23.00   |
|           |            | 1       | 74        | 21.24   | 21.30   | 21.17   | 23.00   |
|           |            | 36      | 0         | 20.09   | 20.17   | 20.14   | 22.00   |
|           |            | 36      | 18        | 20.20   | 20.07   | 20.08   | 22.00   |
|           |            | 36      | 39        | 20.21   | 20.22   | 20.18   | 22.00   |
|           |            | 75      | 0         | 20.15   | 20.10   | 20.13   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.72   | 21.62   | 21.59   | 23.00   |
|           |            | 1       | 50        | 21.91   | 21.76   | 21.69   | 23.00   |
|           |            | 1       | 99        | 21.81   | 21.74   | 21.77   | 23.00   |
|           |            | 50      | 0         | 21.56   | 21.50   | 21.51   | 23.00   |
|           |            | 50      | 25        | 21.72   | 21.60   | 21.54   | 23.00   |
|           |            | 50      | 50        | 21.74   | 21.42   | 21.34   | 23.00   |
|           |            | 100     | 0         | 21.68   | 21.50   | 21.46   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.54   | 21.38   | 21.30   | 23.00   |
|           |            | 1       | 50        | 21.72   | 21.51   | 21.51   | 23.00   |
|           |            | 1       | 99        | 21.55   | 21.44   | 21.52   | 23.00   |
|           |            | 50      | 0         | 21.57   | 21.53   | 21.48   | 23.00   |
|           |            | 50      | 25        | 21.76   | 21.55   | 21.55   | 23.00   |
|           |            | 50      | 50        | 21.77   | 21.44   | 21.34   | 23.00   |
|           |            | 100     | 0         | 21.69   | 21.49   | 21.50   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.24   | 21.31   | 21.27   | 23.00   |
|           |            | 1       | 50        | 21.21   | 21.16   | 21.29   | 23.00   |
|           |            | 1       | 99        | 21.16   | 21.32   | 21.16   | 23.00   |
|           |            | 50      | 0         | 20.07   | 20.21   | 20.10   | 22.00   |
|           |            | 50      | 25        | 20.13   | 20.17   | 20.09   | 22.00   |
|           |            | 50      | 50        | 20.20   | 20.20   | 20.07   | 22.00   |
|           |            | 100     | 0         | 20.10   | 20.10   | 20.08   | 22.00   |



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| LTE Band 7 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                  | QPSK       | 1       | 0         | 18.61                | 18.45   | 18.54   | 20.00   |
|                       |            | 1       | 13        | 18.64                | 18.50   | 18.42   | 20.00   |
|                       |            | 1       | 24        | 18.60                | 18.50   | 18.49   | 20.00   |
|                       |            | 12      | 0         | 18.71                | 18.54   | 18.69   | 20.00   |
|                       |            | 12      | 6         | 18.73                | 18.61   | 18.63   | 20.00   |
|                       |            | 12      | 13        | 18.77                | 18.53   | 18.49   | 20.00   |
|                       |            | 25      | 0         | 18.67                | 18.50   | 18.54   | 20.00   |
|                       | 16QAM      | 1       | 0         | 18.63                | 18.51   | 18.47   | 20.00   |
|                       |            | 1       | 13        | 18.66                | 18.53   | 18.52   | 20.00   |
|                       |            | 1       | 24        | 18.67                | 18.51   | 18.53   | 20.00   |
|                       |            | 12      | 0         | 18.71                | 18.54   | 18.68   | 20.00   |
|                       |            | 12      | 6         | 18.68                | 18.57   | 18.58   | 20.00   |
|                       |            | 12      | 13        | 18.70                | 18.51   | 18.51   | 20.00   |
|                       |            | 25      | 0         | 18.73                | 18.52   | 18.52   | 20.00   |
|                       | 64QAM      | 1       | 0         | 18.69                | 18.68   | 18.48   | 20.00   |
|                       |            | 1       | 13        | 18.65                | 18.83   | 18.78   | 20.00   |
|                       |            | 1       | 24        | 18.72                | 18.94   | 18.75   | 20.00   |
|                       |            | 12      | 0         | 18.51                | 18.88   | 18.66   | 20.00   |
|                       |            | 12      | 6         | 18.70                | 18.49   | 18.87   | 20.00   |
|                       |            | 12      | 13        | 18.80                | 18.53   | 18.74   | 20.00   |
|                       |            | 25      | 0         | 18.76                | 18.81   | 18.92   | 20.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                 | QPSK       | 1       | 0         | 18.81                | 18.49   | 18.38   | 20.00   |
|                       |            | 1       | 25        | 18.83                | 18.63   | 18.49   | 20.00   |
|                       |            | 1       | 49        | 18.67                | 18.64   | 18.71   | 20.00   |
|                       |            | 25      | 0         | 18.69                | 18.68   | 18.64   | 20.00   |
|                       |            | 25      | 13        | 18.67                | 18.55   | 18.54   | 20.00   |
|                       |            | 25      | 25        | 18.73                | 18.49   | 18.51   | 20.00   |
|                       |            | 50      | 0         | 18.74                | 18.51   | 18.52   | 20.00   |
|                       | 16QAM      | 1       | 0         | 18.59                | 18.57   | 18.43   | 20.00   |
|                       |            | 1       | 25        | 18.71                | 18.50   | 18.58   | 20.00   |
|                       |            | 1       | 49        | 18.67                | 18.47   | 18.54   | 20.00   |
|                       |            | 25      | 0         | 18.61                | 18.53   | 18.62   | 20.00   |
|                       |            | 25      | 13        | 18.66                | 18.53   | 18.56   | 20.00   |
|                       |            | 25      | 25        | 18.76                | 18.47   | 18.52   | 20.00   |
|                       |            | 50      | 0         | 18.68                | 18.61   | 18.59   | 20.00   |
|                       | 64QAM      | 1       | 0         | 18.91                | 18.81   | 18.84   | 20.00   |
|                       |            | 1       | 25        | 18.65                | 18.74   | 18.67   | 20.00   |
|                       |            | 1       | 49        | 18.87                | 18.63   | 18.93   | 20.00   |
|                       |            | 25      | 0         | 18.95                | 18.59   | 18.72   | 20.00   |
|                       |            | 25      | 13        | 18.55                | 18.62   | 18.67   | 20.00   |
|                       |            | 25      | 25        | 18.87                | 18.91   | 18.90   | 20.00   |
|                       |            | 50      | 0         | 18.71                | 18.96   | 18.92   | 20.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.13   | 18.89   | 18.81   | 20.00   |
|           |            | 1       | 38        | 19.18   | 18.70   | 18.68   | 20.00   |
|           |            | 1       | 74        | 18.90   | 18.69   | 18.74   | 20.00   |
|           |            | 36      | 0         | 18.63   | 18.51   | 18.50   | 20.00   |
|           |            | 36      | 18        | 18.74   | 18.49   | 18.55   | 20.00   |
|           |            | 36      | 39        | 18.75   | 18.51   | 18.50   | 20.00   |
|           |            | 75      | 0         | 18.69   | 18.46   | 18.47   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.55   | 18.48   | 18.29   | 20.00   |
|           |            | 1       | 38        | 18.60   | 18.57   | 18.52   | 20.00   |
|           |            | 1       | 74        | 18.71   | 18.53   | 18.64   | 20.00   |
|           |            | 36      | 0         | 18.55   | 18.54   | 18.55   | 20.00   |
|           |            | 36      | 18        | 18.71   | 18.51   | 18.55   | 20.00   |
|           |            | 36      | 39        | 18.78   | 18.50   | 18.49   | 20.00   |
|           |            | 75      | 0         | 18.76   | 18.49   | 18.58   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.76   | 18.80   | 18.54   | 20.00   |
|           |            | 1       | 38        | 18.66   | 18.61   | 18.54   | 20.00   |
|           |            | 1       | 74        | 18.66   | 18.74   | 18.81   | 20.00   |
|           |            | 36      | 0         | 18.71   | 18.69   | 18.93   | 20.00   |
|           |            | 36      | 18        | 18.69   | 18.91   | 18.57   | 20.00   |
|           |            | 36      | 39        | 18.83   | 18.68   | 18.64   | 20.00   |
|           |            | 75      | 0         | 18.86   | 18.91   | 18.56   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.03   | 18.82   | 18.77   | 20.00   |
|           |            | 1       | 50        | 19.17   | 19.03   | 19.01   | 20.00   |
|           |            | 1       | 99        | 19.08   | 18.92   | 19.06   | 20.00   |
|           |            | 50      | 0         | 18.53   | 18.49   | 18.45   | 20.00   |
|           |            | 50      | 25        | 18.71   | 18.62   | 18.56   | 20.00   |
|           |            | 50      | 50        | 18.76   | 18.51   | 18.43   | 20.00   |
|           |            | 100     | 0         | 18.47   | 18.51   | 18.56   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.57   | 18.36   | 18.42   | 20.00   |
|           |            | 1       | 50        | 18.72   | 18.56   | 18.48   | 20.00   |
|           |            | 1       | 99        | 18.58   | 18.54   | 18.56   | 20.00   |
|           |            | 50      | 0         | 18.58   | 18.59   | 18.53   | 20.00   |
|           |            | 50      | 25        | 18.70   | 18.56   | 18.52   | 20.00   |
|           |            | 50      | 50        | 18.77   | 18.45   | 18.39   | 20.00   |
|           |            | 100     | 0         | 18.65   | 18.51   | 18.54   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.71   | 18.68   | 18.64   | 20.00   |
|           |            | 1       | 50        | 18.86   | 18.53   | 18.57   | 20.00   |
|           |            | 1       | 99        | 18.78   | 18.92   | 18.89   | 20.00   |
|           |            | 50      | 0         | 18.79   | 18.52   | 18.94   | 20.00   |
|           |            | 50      | 25        | 18.73   | 18.61   | 18.50   | 20.00   |
|           |            | 50      | 50        | 18.60   | 18.55   | 18.54   | 20.00   |
|           |            | 100     | 0         | 18.73   | 18.95   | 18.57   | 20.00   |



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| LTE FDD Band 12 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 23.35                | 23.38   | 23.33   | 25.00   |
|                 |            | 1       | 2         | 23.19                | 23.16   | 23.42   | 25.00   |
|                 |            | 1       | 5         | 23.09                | 23.16   | 23.14   | 25.00   |
|                 |            | 3       | 0         | 23.25                | 23.26   | 23.16   | 25.00   |
|                 |            | 3       | 2         | 23.25                | 23.20   | 23.33   | 25.00   |
|                 |            | 3       | 3         | 23.32                | 23.28   | 23.25   | 25.00   |
|                 |            | 6       | 0         | 22.25                | 22.25   | 22.25   | 24.00   |
|                 | 16QAM      | 1       | 0         | 22.22                | 22.43   | 22.77   | 24.00   |
|                 |            | 1       | 2         | 22.54                | 22.79   | 22.81   | 24.00   |
|                 |            | 1       | 5         | 22.38                | 22.37   | 22.13   | 24.00   |
|                 |            | 3       | 0         | 22.30                | 22.34   | 22.14   | 24.00   |
|                 |            | 3       | 2         | 22.12                | 22.26   | 22.32   | 24.00   |
|                 |            | 3       | 3         | 22.25                | 22.25   | 22.35   | 24.00   |
|                 |            | 6       | 0         | 21.48                | 21.32   | 21.30   | 23.00   |
|                 | 64QAM      | 1       | 0         | 21.17                | 21.16   | 21.17   | 23.00   |
|                 |            | 1       | 2         | 21.14                | 21.05   | 21.13   | 23.00   |
|                 |            | 1       | 5         | 21.06                | 21.07   | 21.14   | 23.00   |
|                 |            | 3       | 0         | 21.20                | 21.05   | 21.07   | 23.00   |
|                 |            | 3       | 2         | 21.15                | 21.17   | 21.16   | 23.00   |
|                 |            | 3       | 3         | 21.17                | 21.03   | 21.08   | 23.00   |
|                 |            | 6       | 0         | 20.08                | 20.10   | 20.03   | 22.00   |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 23025                | 23095   | 23165   |         |
| 3MHz            | QPSK       | 1       | 0         | 23.24                | 23.26   | 23.15   | 25.00   |
|                 |            | 1       | 7         | 23.26                | 23.26   | 23.15   | 25.00   |
|                 |            | 1       | 14        | 23.26                | 23.24   | 23.31   | 25.00   |
|                 |            | 8       | 0         | 22.21                | 22.19   | 22.26   | 24.00   |
|                 |            | 8       | 4         | 22.26                | 22.26   | 22.24   | 24.00   |
|                 |            | 8       | 7         | 22.24                | 22.21   | 22.22   | 24.00   |
|                 |            | 15      | 0         | 22.26                | 22.21   | 22.29   | 24.00   |
|                 | 16QAM      | 1       | 0         | 22.34                | 22.74   | 22.34   | 24.00   |
|                 |            | 1       | 7         | 22.38                | 22.20   | 22.47   | 24.00   |
|                 |            | 1       | 14        | 22.63                | 22.41   | 22.37   | 24.00   |
|                 |            | 8       | 0         | 21.26                | 21.26   | 21.31   | 23.00   |
|                 |            | 8       | 4         | 21.28                | 21.32   | 21.37   | 23.00   |
|                 |            | 8       | 7         | 21.25                | 21.16   | 21.32   | 23.00   |
|                 |            | 15      | 0         | 21.17                | 21.23   | 21.27   | 23.00   |
|                 | 64QAM      | 1       | 0         | 21.11                | 21.09   | 21.15   | 23.00   |
|                 |            | 1       | 7         | 21.18                | 21.07   | 21.02   | 23.00   |
|                 |            | 1       | 14        | 21.07                | 21.20   | 21.07   | 23.00   |
|                 |            | 8       | 0         | 20.04                | 20.20   | 20.10   | 22.00   |
|                 |            | 8       | 4         | 20.14                | 20.13   | 20.07   | 22.00   |
|                 |            | 8       | 7         | 20.20                | 20.20   | 20.10   | 22.00   |
|                 |            | 15      | 0         | 20.13                | 20.01   | 20.20   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 23035   | 23095   | 23155   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.25   | 23.24   | 23.28   | 25.00   |
|           |            | 1       | 13        | 23.21   | 23.36   | 23.27   | 25.00   |
|           |            | 1       | 24        | 23.39   | 23.25   | 23.37   | 25.00   |
|           |            | 12      | 0         | 22.30   | 22.31   | 22.30   | 24.00   |
|           |            | 12      | 6         | 22.29   | 22.31   | 22.27   | 24.00   |
|           |            | 12      | 13        | 22.35   | 22.28   | 22.29   | 24.00   |
|           |            | 25      | 0         | 22.29   | 22.26   | 22.29   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.39   | 22.78   | 22.37   | 24.00   |
|           |            | 1       | 13        | 22.75   | 22.50   | 22.49   | 24.00   |
|           |            | 1       | 24        | 22.88   | 22.50   | 22.81   | 24.00   |
|           |            | 12      | 0         | 21.37   | 21.35   | 21.28   | 23.00   |
|           |            | 12      | 6         | 21.22   | 21.29   | 21.21   | 23.00   |
|           |            | 12      | 13        | 21.33   | 21.31   | 21.17   | 23.00   |
|           |            | 25      | 0         | 21.27   | 21.27   | 21.20   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.05   | 21.18   | 21.02   | 23.00   |
|           |            | 1       | 13        | 21.10   | 21.13   | 21.08   | 23.00   |
|           |            | 1       | 24        | 21.04   | 21.03   | 21.10   | 23.00   |
|           |            | 12      | 0         | 20.08   | 20.17   | 20.09   | 22.00   |
|           |            | 12      | 6         | 20.03   | 20.02   | 20.12   | 22.00   |
|           |            | 12      | 13        | 20.16   | 20.02   | 20.16   | 22.00   |
|           |            | 25      | 0         | 20.14   | 20.08   | 20.11   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23060   | 23095   | 23130   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.13   | 23.18   | 23.10   | 25.00   |
|           |            | 1       | 25        | 23.36   | 23.25   | 23.36   | 25.00   |
|           |            | 1       | 49        | 23.37   | 23.39   | 23.33   | 25.00   |
|           |            | 25      | 0         | 22.18   | 22.22   | 22.30   | 24.00   |
|           |            | 25      | 13        | 22.27   | 22.27   | 22.30   | 24.00   |
|           |            | 25      | 25        | 22.30   | 22.31   | 22.25   | 24.00   |
|           |            | 50      | 0         | 22.33   | 22.26   | 22.33   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.79   | 22.39   | 22.44   | 24.00   |
|           |            | 1       | 25        | 22.43   | 22.73   | 22.21   | 24.00   |
|           |            | 1       | 49        | 22.87   | 22.48   | 22.55   | 24.00   |
|           |            | 25      | 0         | 21.16   | 21.29   | 21.25   | 23.00   |
|           |            | 25      | 13        | 21.29   | 21.23   | 21.28   | 23.00   |
|           |            | 25      | 25        | 21.24   | 21.21   | 21.24   | 23.00   |
|           |            | 50      | 0         | 21.27   | 21.19   | 21.21   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.17   | 21.01   | 21.19   | 23.00   |
|           |            | 1       | 25        | 21.13   | 21.05   | 21.14   | 23.00   |
|           |            | 1       | 49        | 21.01   | 21.20   | 21.17   | 23.00   |
|           |            | 25      | 0         | 20.16   | 20.13   | 20.04   | 22.00   |
|           |            | 25      | 13        | 20.09   | 20.16   | 20.11   | 22.00   |
|           |            | 25      | 25        | 20.12   | 20.08   | 20.06   | 22.00   |
|           |            | 50      | 0         | 20.05   | 20.07   | 20.10   | 22.00   |



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| LTE FDD Band 17 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz            | QPSK       | 1       | 0         | 23.20                | 23.14   | 23.15   | 25.00   |
|                 |            | 1       | 13        | 23.10                | 23.20   | 23.09   | 25.00   |
|                 |            | 1       | 24        | 23.26                | 23.23   | 23.21   | 25.00   |
|                 |            | 12      | 0         | 22.14                | 22.18   | 22.19   | 24.00   |
|                 |            | 12      | 6         | 22.22                | 22.16   | 22.14   | 24.00   |
|                 |            | 12      | 13        | 22.26                | 22.16   | 22.10   | 24.00   |
|                 |            | 25      | 0         | 22.20                | 22.14   | 22.19   | 24.00   |
|                 | 16QAM      | 1       | 0         | 22.17                | 22.81   | 22.87   | 24.00   |
|                 |            | 1       | 13        | 22.42                | 22.74   | 22.72   | 24.00   |
|                 |            | 1       | 24        | 22.30                | 22.88   | 22.87   | 24.00   |
|                 |            | 12      | 0         | 21.13                | 21.23   | 21.20   | 23.00   |
|                 |            | 12      | 6         | 21.21                | 21.08   | 21.19   | 23.00   |
|                 |            | 12      | 13        | 21.12                | 21.14   | 21.05   | 23.00   |
|                 |            | 25      | 0         | 21.22                | 21.20   | 21.13   | 23.00   |
|                 | 64QAM      | 1       | 0         | 21.11                | 21.11   | 21.08   | 23.00   |
|                 |            | 1       | 13        | 21.20                | 21.05   | 21.07   | 23.00   |
|                 |            | 1       | 24        | 21.15                | 21.01   | 21.15   | 23.00   |
|                 |            | 12      | 0         | 20.10                | 20.10   | 20.20   | 22.00   |
|                 |            | 12      | 6         | 20.06                | 20.07   | 20.14   | 22.00   |
|                 |            | 12      | 13        | 20.05                | 20.01   | 20.12   | 22.00   |
|                 |            | 25      | 0         | 20.12                | 20.10   | 20.04   | 22.00   |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 23780                | 23790   | 23800   |         |
| 10MHz           | QPSK       | 1       | 0         | 23.01                | 23.02   | 23.03   | 25.00   |
|                 |            | 1       | 25        | 23.28                | 23.31   | 23.22   | 25.00   |
|                 |            | 1       | 49        | 23.18                | 23.14   | 23.18   | 25.00   |
|                 |            | 25      | 0         | 22.13                | 22.17   | 22.19   | 24.00   |
|                 |            | 25      | 13        | 22.17                | 22.15   | 22.18   | 24.00   |
|                 |            | 25      | 25        | 22.11                | 22.14   | 22.15   | 24.00   |
|                 |            | 50      | 0         | 22.21                | 22.21   | 22.17   | 24.00   |
|                 | 16QAM      | 1       | 0         | 22.71                | 22.68   | 22.68   | 24.00   |
|                 |            | 1       | 25        | 22.24                | 22.72   | 22.87   | 24.00   |
|                 |            | 1       | 49        | 22.47                | 22.13   | 22.52   | 24.00   |
|                 |            | 25      | 0         | 21.06                | 21.13   | 21.20   | 23.00   |
|                 |            | 25      | 13        | 21.15                | 21.12   | 21.12   | 23.00   |
|                 |            | 25      | 25        | 21.07                | 21.21   | 21.13   | 23.00   |
|                 |            | 50      | 0         | 21.11                | 21.19   | 21.14   | 23.00   |
|                 | 64QAM      | 1       | 0         | 21.18                | 21.07   | 21.20   | 23.00   |
|                 |            | 1       | 25        | 21.17                | 21.01   | 21.12   | 23.00   |
|                 |            | 1       | 49        | 21.15                | 21.01   | 21.06   | 23.00   |
|                 |            | 25      | 0         | 20.18                | 20.16   | 20.18   | 22.00   |
|                 |            | 25      | 13        | 20.04                | 20.07   | 20.11   | 22.00   |
|                 |            | 25      | 25        | 20.03                | 20.04   | 20.07   | 22.00   |
|                 |            | 50      | 0         | 20.03                | 20.18   | 20.06   | 22.00   |



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| LTE FDD Band 26 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 23.10                | 23.19   | 23.01   | 25.00   |
|                 |            | 1       | 2         | 23.14                | 23.00   | 23.13   | 25.00   |
|                 |            | 1       | 5         | 23.03                | 23.21   | 23.14   | 25.00   |
|                 |            | 3       | 0         | 23.22                | 23.03   | 23.10   | 25.00   |
|                 |            | 3       | 2         | 23.20                | 23.08   | 23.11   | 25.00   |
|                 |            | 3       | 3         | 23.09                | 23.14   | 23.11   | 25.00   |
|                 |            | 6       | 0         | 22.17                | 22.10   | 22.10   | 24.00   |
|                 | 16QAM      | 1       | 0         | 22.52                | 22.20   | 22.14   | 24.00   |
|                 |            | 1       | 2         | 22.06                | 22.61   | 22.38   | 24.00   |
|                 |            | 1       | 5         | 22.64                | 22.48   | 22.58   | 24.00   |
|                 |            | 3       | 0         | 22.20                | 22.04   | 22.19   | 24.00   |
|                 |            | 3       | 2         | 22.13                | 22.15   | 22.02   | 24.00   |
|                 |            | 3       | 3         | 22.20                | 22.02   | 22.03   | 24.00   |
|                 |            | 6       | 0         | 21.17                | 21.08   | 21.09   | 23.00   |
|                 | 64QAM      | 1       | 0         | 21.02                | 21.06   | 21.12   | 23.00   |
|                 |            | 1       | 2         | 21.11                | 21.09   | 21.17   | 23.00   |
|                 |            | 1       | 5         | 21.15                | 21.15   | 21.14   | 23.00   |
|                 |            | 3       | 0         | 21.10                | 21.05   | 21.12   | 23.00   |
|                 |            | 3       | 2         | 21.02                | 21.15   | 21.14   | 23.00   |
|                 |            | 3       | 3         | 21.16                | 21.18   | 21.03   | 23.00   |
|                 |            | 6       | 0         | 20.10                | 20.15   | 20.10   | 22.00   |
| 3MHz            | QPSK       | 1       | 0         | 23.06                | 23.10   | 23.18   | 25.00   |
|                 |            | 1       | 7         | 23.08                | 23.15   | 23.13   | 25.00   |
|                 |            | 1       | 14        | 23.09                | 23.06   | 23.10   | 25.00   |
|                 |            | 8       | 0         | 22.10                | 22.08   | 22.10   | 24.00   |
|                 |            | 8       | 4         | 22.05                | 22.08   | 22.04   | 24.00   |
|                 |            | 8       | 7         | 22.14                | 22.02   | 22.05   | 24.00   |
|                 |            | 15      | 0         | 22.13                | 22.09   | 22.11   | 24.00   |
|                 | 16QAM      | 1       | 0         | 22.33                | 22.51   | 22.57   | 24.00   |
|                 |            | 1       | 7         | 22.22                | 22.31   | 22.64   | 24.00   |
|                 |            | 1       | 14        | 22.11                | 22.21   | 22.58   | 24.00   |
|                 |            | 8       | 0         | 21.18                | 21.18   | 21.14   | 23.00   |
|                 |            | 8       | 4         | 21.24                | 21.04   | 21.21   | 23.00   |
|                 |            | 8       | 7         | 21.10                | 21.19   | 21.15   | 23.00   |
|                 |            | 15      | 0         | 21.07                | 21.14   | 21.06   | 23.00   |
|                 | 64QAM      | 1       | 0         | 21.20                | 21.15   | 21.15   | 23.00   |
|                 |            | 1       | 7         | 21.11                | 21.12   | 21.05   | 23.00   |
|                 |            | 1       | 14        | 21.09                | 21.05   | 21.02   | 23.00   |
|                 |            | 8       | 0         | 20.06                | 20.05   | 20.01   | 22.00   |
|                 |            | 8       | 4         | 20.11                | 20.19   | 20.07   | 22.00   |
|                 |            | 8       | 7         | 20.17                | 20.02   | 20.03   | 22.00   |



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|           |            | 15      | 0         | 20.12   | 20.11   | 20.16   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26715   | 26865   | 27015   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.09   | 23.13   | 23.09   | 25.00   |
|           |            | 1       | 13        | 23.17   | 23.20   | 23.07   | 25.00   |
|           |            | 1       | 24        | 23.23   | 23.12   | 23.16   | 25.00   |
|           |            | 12      | 0         | 22.18   | 22.17   | 22.17   | 24.00   |
|           |            | 12      | 6         | 22.17   | 22.15   | 22.13   | 24.00   |
|           |            | 12      | 13        | 22.18   | 22.10   | 22.13   | 24.00   |
|           |            | 25      | 0         | 22.19   | 22.16   | 22.13   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.20   | 22.53   | 22.23   | 24.00   |
|           |            | 1       | 13        | 22.18   | 22.13   | 22.62   | 24.00   |
|           |            | 1       | 24        | 22.71   | 22.31   | 22.59   | 24.00   |
|           |            | 12      | 0         | 21.09   | 21.16   | 21.17   | 23.00   |
|           |            | 12      | 6         | 21.11   | 21.15   | 21.12   | 23.00   |
|           |            | 12      | 13        | 21.11   | 21.12   | 21.01   | 23.00   |
|           |            | 25      | 0         | 21.20   | 21.21   | 21.09   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.07   | 21.13   | 21.15   | 23.00   |
|           |            | 1       | 13        | 21.06   | 21.04   | 21.10   | 23.00   |
|           |            | 1       | 24        | 21.16   | 21.20   | 21.04   | 23.00   |
|           |            | 12      | 0         | 20.05   | 20.11   | 20.07   | 22.00   |
|           |            | 12      | 6         | 20.14   | 20.06   | 20.02   | 22.00   |
|           |            | 12      | 13        | 20.16   | 20.15   | 20.16   | 22.00   |
|           |            | 25      | 0         | 20.08   | 20.08   | 20.19   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26740   | 26865   | 26990   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.15   | 23.05   | 23.02   | 25.00   |
|           |            | 1       | 25        | 23.14   | 23.09   | 23.16   | 25.00   |
|           |            | 1       | 49        | 23.09   | 23.09   | 23.00   | 25.00   |
|           |            | 25      | 0         | 22.16   | 22.19   | 22.14   | 24.00   |
|           |            | 25      | 13        | 22.09   | 22.10   | 22.13   | 24.00   |
|           |            | 25      | 25        | 22.19   | 22.11   | 22.13   | 24.00   |
|           |            | 50      | 0         | 22.23   | 22.20   | 22.15   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.56   | 22.01   | 22.07   | 24.00   |
|           |            | 1       | 25        | 22.14   | 22.40   | 22.39   | 24.00   |
|           |            | 1       | 49        | 22.09   | 22.30   | 22.10   | 24.00   |
|           |            | 25      | 0         | 21.10   | 21.08   | 21.09   | 23.00   |
|           |            | 25      | 13        | 21.16   | 21.08   | 21.08   | 23.00   |
|           |            | 25      | 25        | 21.17   | 21.13   | 21.07   | 23.00   |
|           |            | 50      | 0         | 21.17   | 21.12   | 21.19   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.01   | 21.02   | 21.08   | 23.00   |
|           |            | 1       | 25        | 21.04   | 21.12   | 21.16   | 23.00   |
|           |            | 1       | 49        | 21.16   | 21.10   | 21.16   | 23.00   |
|           |            | 25      | 0         | 20.03   | 20.03   | 20.17   | 22.00   |
|           |            | 25      | 13        | 20.10   | 20.11   | 20.01   | 22.00   |
|           |            | 25      | 25        | 20.09   | 20.03   | 20.05   | 22.00   |
|           |            | 50      | 0         | 20.06   | 20.02   | 20.16   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26765   | 26865   | 26965   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.07   | 23.08   | 23.10   | 25.00   |



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|  |       |    |    |       |              |       |       |
|--|-------|----|----|-------|--------------|-------|-------|
|  |       | 1  | 38 | 23.11 | 23.05        | 23.04 | 25.00 |
|  |       | 1  | 74 | 23.18 | 23.22        | 23.19 | 25.00 |
|  |       | 36 | 0  | 22.05 | <b>22.13</b> | 22.01 | 24.00 |
|  |       | 36 | 18 | 22.09 | 22.10        | 22.10 | 24.00 |
|  |       | 36 | 39 | 22.11 | 22.10        | 22.06 | 24.00 |
|  |       | 75 | 0  | 22.07 | 22.12        | 22.10 | 24.00 |
|  | 16QAM | 1  | 0  | 22.16 | 22.15        | 22.12 | 24.00 |
|  |       | 1  | 38 | 22.30 | 22.24        | 22.31 | 24.00 |
|  |       | 1  | 74 | 22.60 | 22.53        | 22.51 | 24.00 |
|  |       | 36 | 0  | 21.11 | 21.09        | 21.07 | 23.00 |
|  |       | 36 | 18 | 21.10 | 21.04        | 21.07 | 23.00 |
|  |       | 36 | 39 | 21.13 | 21.13        | 21.05 | 23.00 |
|  | 64QAM | 75 | 0  | 21.08 | 21.13        | 21.06 | 23.00 |
|  |       | 1  | 0  | 21.12 | 21.03        | 21.16 | 23.00 |
|  |       | 1  | 38 | 21.11 | 21.06        | 21.04 | 23.00 |
|  |       | 1  | 74 | 21.05 | 21.04        | 21.04 | 23.00 |
|  |       | 36 | 0  | 20.13 | 20.18        | 20.15 | 22.00 |
|  |       | 36 | 18 | 20.13 | 20.04        | 20.06 | 22.00 |
|  |       | 36 | 39 | 20.12 | 20.01        | 20.14 | 22.00 |
|  |       | 75 | 0  | 20.14 | 20.13        | 20.12 | 22.00 |



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| LTE Band 38 Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                    | QPSK       | 1       | 0         | 23.56                | 23.50   | 23.48   | 25.00   |
|                         |            | 1       | 13        | 23.53                | 23.49   | 23.48   | 25.00   |
|                         |            | 1       | 24        | 23.52                | 23.49   | 23.47   | 25.00   |
|                         |            | 12      | 0         | 22.54                | 22.50   | 22.47   | 24.00   |
|                         |            | 12      | 6         | 22.49                | 22.47   | 22.51   | 24.00   |
|                         |            | 12      | 13        | 22.48                | 22.46   | 22.45   | 24.00   |
|                         |            | 25      | 0         | 22.49                | 22.50   | 22.50   | 24.00   |
|                         | 16QAM      | 1       | 0         | 22.52                | 22.48   | 22.49   | 24.00   |
|                         |            | 1       | 13        | 22.58                | 22.42   | 22.45   | 24.00   |
|                         |            | 1       | 24        | 22.53                | 22.50   | 22.50   | 24.00   |
|                         |            | 12      | 0         | 21.46                | 21.45   | 21.42   | 23.00   |
|                         |            | 12      | 6         | 21.42                | 21.39   | 21.41   | 23.00   |
|                         |            | 12      | 13        | 21.44                | 21.39   | 21.34   | 23.00   |
|                         |            | 25      | 0         | 21.51                | 21.53   | 21.47   | 23.00   |
|                         | 64QAM      | 1       | 0         | 21.22                | 21.26   | 21.26   | 23.00   |
|                         |            | 1       | 13        | 21.10                | 21.27   | 21.25   | 23.00   |
|                         |            | 1       | 24        | 21.12                | 21.11   | 21.23   | 23.00   |
|                         |            | 12      | 0         | 20.14                | 20.10   | 20.22   | 22.00   |
|                         |            | 12      | 6         | 20.15                | 20.13   | 20.20   | 22.00   |
|                         |            | 12      | 13        | 20.18                | 20.21   | 20.15   | 22.00   |
|                         |            | 25      | 0         | 20.20                | 20.08   | 20.18   | 22.00   |
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                   | QPSK       | 1       | 0         | 23.55                | 23.52   | 23.44   | 25.00   |
|                         |            | 1       | 25        | 23.53                | 23.44   | 23.45   | 25.00   |
|                         |            | 1       | 49        | 23.54                | 23.49   | 23.46   | 25.00   |
|                         |            | 25      | 0         | 22.51                | 22.51   | 22.44   | 24.00   |
|                         |            | 25      | 13        | 22.48                | 22.48   | 22.38   | 24.00   |
|                         |            | 25      | 25        | 22.49                | 22.40   | 22.43   | 24.00   |
|                         |            | 50      | 0         | 22.48                | 22.41   | 22.49   | 24.00   |
|                         | 16QAM      | 1       | 0         | 22.51                | 22.44   | 22.43   | 24.00   |
|                         |            | 1       | 25        | 22.52                | 22.47   | 22.52   | 24.00   |
|                         |            | 1       | 49        | 22.54                | 22.43   | 22.47   | 24.00   |
|                         |            | 25      | 0         | 21.54                | 21.50   | 21.53   | 23.00   |
|                         |            | 25      | 13        | 21.56                | 21.47   | 21.40   | 23.00   |
|                         |            | 25      | 25        | 21.51                | 21.44   | 21.51   | 23.00   |
|                         |            | 50      | 0         | 21.46                | 21.40   | 21.46   | 23.00   |
|                         | 64QAM      | 1       | 0         | 21.28                | 21.32   | 21.22   | 23.00   |
|                         |            | 1       | 25        | 21.32                | 21.09   | 21.17   | 23.00   |
|                         |            | 1       | 49        | 21.13                | 21.22   | 21.08   | 23.00   |
|                         |            | 25      | 0         | 20.11                | 20.12   | 20.09   | 22.00   |
|                         |            | 25      | 13        | 20.11                | 20.21   | 20.20   | 22.00   |
|                         |            | 25      | 25        | 20.07                | 20.09   | 20.22   | 22.00   |



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|           |            | 50      | 0         | 20.16   | 20.08   | 20.07        | 22.00   |
|-----------|------------|---------|-----------|---------|---------|--------------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|           |            |         |           | 37825   | 38000   | 38175        |         |
| 15MHz     | QPSK       | 1       | 0         | 23.50   | 23.45   | 23.39        | 25.00   |
|           |            | 1       | 38        | 23.53   | 23.58   | 23.46        | 25.00   |
|           |            | 1       | 74        | 23.48   | 23.41   | 23.43        | 25.00   |
|           |            | 36      | 0         | 22.46   | 22.38   | 22.39        | 24.00   |
|           |            | 36      | 18        | 22.42   | 22.39   | 22.37        | 24.00   |
|           |            | 36      | 39        | 22.41   | 22.37   | 22.37        | 24.00   |
|           |            | 75      | 0         | 22.48   | 22.46   | 22.40        | 24.00   |
|           | 16QAM      | 1       | 0         | 22.49   | 22.45   | 22.43        | 24.00   |
|           |            | 1       | 38        | 22.47   | 22.46   | 22.45        | 24.00   |
|           |            | 1       | 74        | 22.49   | 22.46   | 22.43        | 24.00   |
|           |            | 36      | 0         | 21.41   | 21.41   | 21.35        | 23.00   |
|           |            | 36      | 18        | 21.42   | 21.37   | 21.40        | 23.00   |
|           |            | 36      | 39        | 21.41   | 21.35   | 21.40        | 23.00   |
|           |            | 75      | 0         | 21.41   | 21.37   | 21.46        | 23.00   |
|           | 64QAM      | 1       | 0         | 21.27   | 21.13   | 21.18        | 23.00   |
|           |            | 1       | 38        | 21.15   | 21.16   | 21.10        | 23.00   |
|           |            | 1       | 74        | 21.20   | 21.32   | 21.25        | 23.00   |
|           |            | 36      | 0         | 20.15   | 20.11   | 20.09        | 22.00   |
|           |            | 36      | 18        | 20.14   | 20.10   | 20.09        | 22.00   |
|           |            | 36      | 39        | 20.22   | 20.22   | 20.15        | 22.00   |
|           |            | 75      | 0         | 20.10   | 20.13   | 20.08        | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|           |            |         |           | 37850   | 38000   | 38150        |         |
| 20MHz     | QPSK       | 1       | 0         | 23.42   | 23.56   | 23.40        | 25.00   |
|           |            | 1       | 50        | 23.55   | 23.41   | 23.44        | 25.00   |
|           |            | 1       | 99        | 23.42   | 23.36   | 23.37        | 25.00   |
|           |            | 50      | 0         | 22.52   | 22.44   | 22.42        | 24.00   |
|           |            | 50      | 25        | 22.51   | 22.50   | <b>22.53</b> | 24.00   |
|           |            | 50      | 50        | 22.49   | 22.36   | 22.43        | 24.00   |
|           |            | 100     | 0         | 22.47   | 22.46   | 22.43        | 24.00   |
|           | 16QAM      | 1       | 0         | 22.44   | 22.37   | 22.36        | 24.00   |
|           |            | 1       | 50        | 22.55   | 22.48   | 22.47        | 24.00   |
|           |            | 1       | 99        | 22.42   | 22.33   | 22.40        | 24.00   |
|           |            | 50      | 0         | 21.50   | 21.46   | 21.47        | 23.00   |
|           |            | 50      | 25        | 21.49   | 21.48   | 21.52        | 23.00   |
|           |            | 50      | 50        | 21.51   | 21.37   | 21.47        | 23.00   |
|           |            | 100     | 0         | 21.45   | 21.45   | 21.48        | 23.00   |
|           | 64QAM      | 1       | 0         | 21.12   | 21.29   | 21.19        | 23.00   |
|           |            | 1       | 50        | 21.14   | 21.27   | 21.14        | 23.00   |
|           |            | 1       | 99        | 21.07   | 21.13   | 21.16        | 23.00   |
|           |            | 50      | 0         | 20.15   | 20.16   | 20.18        | 22.00   |
|           |            | 50      | 25        | 20.08   | 20.21   | 20.20        | 22.00   |
|           |            | 50      | 50        | 20.20   | 20.15   | 20.10        | 22.00   |
|           |            | 100     | 0         | 20.21   | 20.11   | 20.08        | 22.00   |



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| LTE Band 38 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                   | QPSK       | 1       | 0         | 21.56                | 21.51   | 21.55   | 23.00   |
|                        |            | 1       | 13        | 21.58                | 21.61   | 21.53   | 23.00   |
|                        |            | 1       | 24        | 21.53                | 21.58   | 21.54   | 23.00   |
|                        |            | 12      | 0         | 21.64                | 21.51   | 21.58   | 23.00   |
|                        |            | 12      | 6         | 21.56                | 21.52   | 21.58   | 23.00   |
|                        |            | 12      | 13        | 21.59                | 21.62   | 21.56   | 23.00   |
|                        |            | 25      | 0         | 21.54                | 21.61   | 21.59   | 23.00   |
|                        | 16QAM      | 1       | 0         | 21.59                | 21.59   | 21.61   | 23.00   |
|                        |            | 1       | 13        | 21.62                | 21.60   | 21.57   | 23.00   |
|                        |            | 1       | 24        | 21.57                | 21.62   | 21.62   | 23.00   |
|                        |            | 12      | 0         | 21.51                | 21.49   | 21.51   | 23.00   |
|                        |            | 12      | 6         | 21.49                | 21.52   | 21.51   | 23.00   |
|                        |            | 12      | 13        | 21.51                | 21.55   | 21.48   | 23.00   |
|                        |            | 25      | 0         | 21.58                | 21.59   | 21.60   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.60                | 21.61   | 21.56   | 23.00   |
|                        |            | 1       | 13        | 21.53                | 21.54   | 21.53   | 23.00   |
|                        |            | 1       | 24        | 21.45                | 21.51   | 21.52   | 23.00   |
|                        |            | 12      | 0         | 21.44                | 21.62   | 21.59   | 23.00   |
|                        |            | 12      | 6         | 21.55                | 21.53   | 21.48   | 23.00   |
|                        |            | 12      | 13        | 21.38                | 21.38   | 21.62   | 23.00   |
|                        |            | 25      | 0         | 21.39                | 21.48   | 21.54   | 23.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                  | QPSK       | 1       | 0         | 21.57                | 21.61   | 21.53   | 23.00   |
|                        |            | 1       | 25        | 21.56                | 21.61   | 21.58   | 23.00   |
|                        |            | 1       | 49        | 21.54                | 21.54   | 21.59   | 23.00   |
|                        |            | 25      | 0         | 21.60                | 21.58   | 21.54   | 23.00   |
|                        |            | 25      | 13        | 21.59                | 21.61   | 21.58   | 23.00   |
|                        |            | 25      | 25        | 21.56                | 21.58   | 21.59   | 23.00   |
|                        |            | 50      | 0         | 21.61                | 21.52   | 21.64   | 23.00   |
|                        | 16QAM      | 1       | 0         | 21.54                | 21.61   | 21.49   | 23.00   |
|                        |            | 1       | 25        | 21.53                | 21.59   | 21.56   | 23.00   |
|                        |            | 1       | 49        | 21.54                | 21.55   | 21.54   | 23.00   |
|                        |            | 25      | 0         | 21.53                | 21.55   | 21.62   | 23.00   |
|                        |            | 25      | 13        | 21.49                | 21.60   | 21.54   | 23.00   |
|                        |            | 25      | 25        | 21.58                | 21.52   | 21.57   | 23.00   |
|                        |            | 50      | 0         | 21.58                | 21.59   | 21.54   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.50                | 21.47   | 21.46   | 23.00   |
|                        |            | 1       | 25        | 21.56                | 21.62   | 21.38   | 23.00   |
|                        |            | 1       | 49        | 21.57                | 21.62   | 21.48   | 23.00   |
|                        |            | 25      | 0         | 21.43                | 21.39   | 21.61   | 23.00   |
|                        |            | 25      | 13        | 21.62                | 21.53   | 21.48   | 23.00   |
|                        |            | 25      | 25        | 21.54                | 21.39   | 21.52   | 23.00   |



|           |            | 50      | 0         | 21.48   | 21.38   | 21.37   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.57   | 21.55   | 21.52   | 23.00   |
|           |            | 1       | 38        | 21.58   | 21.59   | 21.61   | 23.00   |
|           |            | 1       | 74        | 21.59   | 21.58   | 21.56   | 23.00   |
|           |            | 36      | 0         | 21.52   | 21.52   | 21.48   | 23.00   |
|           |            | 36      | 18        | 21.52   | 21.50   | 21.46   | 23.00   |
|           |            | 36      | 39        | 21.56   | 21.53   | 21.54   | 23.00   |
|           |            | 75      | 0         | 21.53   | 21.51   | 21.56   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.52   | 21.53   | 21.51   | 23.00   |
|           |            | 1       | 38        | 21.55   | 21.59   | 21.54   | 23.00   |
|           |            | 1       | 74        | 21.53   | 21.53   | 21.52   | 23.00   |
|           |            | 36      | 0         | 21.47   | 21.52   | 21.52   | 23.00   |
|           |            | 36      | 18        | 21.54   | 21.60   | 21.53   | 23.00   |
|           |            | 36      | 39        | 21.50   | 21.58   | 21.51   | 23.00   |
|           |            | 75      | 0         | 21.51   | 21.58   | 21.53   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.55   | 21.55   | 21.48   | 23.00   |
|           |            | 1       | 38        | 21.38   | 21.56   | 21.40   | 23.00   |
|           |            | 1       | 74        | 21.58   | 21.56   | 21.50   | 23.00   |
|           |            | 36      | 0         | 21.60   | 21.58   | 21.40   | 23.00   |
|           |            | 36      | 18        | 21.47   | 21.45   | 21.45   | 23.00   |
|           |            | 36      | 39        | 21.45   | 21.48   | 21.56   | 23.00   |
|           |            | 75      | 0         | 21.37   | 21.62   | 21.50   | 23.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.49   | 21.49   | 21.49   | 23.00   |
|           |            | 1       | 50        | 21.58   | 21.66   | 21.54   | 23.00   |
|           |            | 1       | 99        | 21.49   | 21.49   | 21.54   | 23.00   |
|           |            | 50      | 0         | 21.58   | 21.58   | 21.62   | 23.00   |
|           |            | 50      | 25        | 21.54   | 21.61   | 21.56   | 23.00   |
|           |            | 50      | 50        | 21.61   | 21.50   | 21.56   | 23.00   |
|           |            | 100     | 0         | 21.61   | 21.58   | 21.59   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.45   | 21.45   | 21.49   | 23.00   |
|           |            | 1       | 50        | 21.55   | 21.61   | 21.54   | 23.00   |
|           |            | 1       | 99        | 21.50   | 21.44   | 21.45   | 23.00   |
|           |            | 50      | 0         | 21.50   | 21.61   | 21.64   | 23.00   |
|           |            | 50      | 25        | 21.60   | 21.52   | 21.62   | 23.00   |
|           |            | 50      | 50        | 21.56   | 21.52   | 21.55   | 23.00   |
|           |            | 100     | 0         | 21.48   | 21.62   | 21.59   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.61   | 21.37   | 21.46   | 23.00   |
|           |            | 1       | 50        | 21.41   | 21.41   | 21.45   | 23.00   |
|           |            | 1       | 99        | 21.45   | 21.61   | 21.51   | 23.00   |
|           |            | 50      | 0         | 21.45   | 21.60   | 21.37   | 23.00   |
|           |            | 50      | 25        | 21.58   | 21.41   | 21.59   | 23.00   |
|           |            | 50      | 50        | 21.47   | 21.39   | 21.50   | 23.00   |
|           |            | 100     | 0         | 21.51   | 21.57   | 21.51   | 23.00   |

Table 3 : Conducted Power of LTE



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**1.2 Conducted Power of Main Antenna (Ant1)**

**1.2.1 Conducted Power of GSM**

| GSM 850 Receiver off    |            |       |              |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|--------------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |              |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                 |            | 128   | 190          | 251   |         |                  | 128                             | 190   | 251   |         |
| GSM(GMSK)               | GSM        | 31.94 | <b>32.27</b> | 32.22 | 33.50   | -9.19            | 22.75                           | 23.08 | 23.03 | 24.31   |
| GPRS/EGPRS<br>(GMSK)    | 1 TX Slot  | 31.91 | 32.24        | 32.21 | 33.50   | -9.19            | 22.72                           | 23.05 | 23.02 | 24.31   |
|                         | 2 TX Slots | 28.86 | 28.90        | 28.81 | 30.50   | -6.18            | 22.68                           | 22.72 | 22.63 | 24.32   |
|                         | 3 TX Slots | 26.56 | 26.86        | 26.76 | 28.50   | -4.42            | 22.14                           | 22.44 | 22.34 | 24.08   |
|                         | 4 TX Slots | 25.75 | <b>25.77</b> | 25.58 | 27.50   | -3.17            | 22.58                           | 22.60 | 22.41 | 24.33   |
| EGPRS(8PSK)             | 1 TX Slot  | 26.12 | 26.22        | 26.26 | 28.00   | -9.19            | 16.93                           | 17.03 | 17.07 | 18.81   |
|                         | 2 TX Slots | 23.25 | 23.29        | 23.36 | 25.00   | -6.18            | 17.07                           | 17.11 | 17.18 | 18.82   |
|                         | 3 TX Slots | 21.12 | 21.23        | 21.22 | 23.00   | -4.42            | 16.70                           | 16.81 | 16.80 | 18.58   |
|                         | 4 TX Slots | 20.06 | 20.04        | 20.15 | 22.00   | -3.17            | 16.89                           | 16.87 | 16.98 | 18.83   |

| GSM 850 Receiver on     |            |       |              |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|--------------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |              |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                 |            | 128   | 190          | 251   |         |                  | 128                             | 190   | 251   |         |
| GSM(GMSK)               | GSM        | 31.32 | <b>31.34</b> | 31.29 | 32.50   | -9.19            | 22.13                           | 22.15 | 22.10 | 23.31   |
| GPRS/EGPRS<br>(GMSK)    | 1 TX Slot  | 31.30 | 31.37        | 31.35 | 32.50   | -9.19            | 22.11                           | 22.18 | 22.16 | 23.31   |
|                         | 2 TX Slots | 28.86 | 28.90        | 28.81 | 30.50   | -6.18            | 22.68                           | 22.72 | 22.63 | 24.32   |
|                         | 3 TX Slots | 26.56 | 26.86        | 26.76 | 28.50   | -4.42            | 22.14                           | 22.44 | 22.34 | 24.08   |
|                         | 4 TX Slots | 25.75 | 25.77        | 25.58 | 27.50   | -3.17            | 22.58                           | 22.60 | 22.41 | 24.33   |
| EGPRS(8PSK)             | 1 TX Slot  | 26.12 | 26.22        | 26.26 | 28.00   | -9.19            | 16.93                           | 17.03 | 17.07 | 18.81   |
|                         | 2 TX Slots | 23.25 | 23.29        | 23.36 | 25.00   | -6.18            | 17.07                           | 17.11 | 17.18 | 18.82   |
|                         | 3 TX Slots | 21.12 | 21.23        | 21.22 | 23.00   | -4.42            | 16.70                           | 16.81 | 16.80 | 18.58   |
|                         | 4 TX Slots | 20.06 | 20.04        | 20.15 | 22.00   | -3.17            | 16.89                           | 16.87 | 16.98 | 18.83   |

| GSM 1900 Receiver off/Hotspot off |            |       |              |       |         |                  |                                 |       |       |         |
|-----------------------------------|------------|-------|--------------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm)           |            |       |              |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                           |            | 512   | 661          | 810   |         |                  | 512                             | 661   | 810   |         |
| GSM(GMSK)                         | GSM        | 28.09 | <b>28.12</b> | 28.14 | 29.50   | -9.19            | 18.90                           | 18.93 | 18.95 | 20.31   |
| GPRS/EGPRS<br>(GMSK)              | 1 TX Slot  | 28.17 | 28.11        | 28.01 | 29.50   | -9.19            | 18.98                           | 18.92 | 18.82 | 20.31   |
|                                   | 2 TX Slots | 23.66 | 23.65        | 23.52 | 25.00   | -6.18            | 17.48                           | 17.47 | 17.34 | 18.82   |
|                                   | 3 TX Slots | 21.77 | 21.69        | 21.78 | 23.00   | -4.42            | 17.35                           | 17.27 | 17.36 | 18.58   |
|                                   | 4 TX Slots | 20.95 | 20.85        | 20.86 | 22.00   | -3.17            | 17.78                           | 17.68 | 17.69 | 18.83   |
| EGPRS(8PSK)                       | 1 TX Slot  | 24.01 | 24.10        | 24.03 | 24.50   | -9.19            | 14.82                           | 14.91 | 14.84 | 15.31   |
|                                   | 2 TX Slots | 19.61 | 19.62        | 19.56 | 21.50   | -6.18            | 13.43                           | 13.44 | 13.38 | 15.32   |
|                                   | 3 TX Slots | 17.69 | 17.75        | 17.81 | 19.50   | -4.42            | 13.27                           | 13.33 | 13.39 | 15.08   |
|                                   | 4 TX Slots | 16.62 | 16.69        | 16.71 | 18.50   | -3.17            | 13.45                           | 13.52 | 13.54 | 15.33   |



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| GSM 1900 Receiver on/Hotspot on |            |              |              |              |         |                  |                                 |       |       |         |
|---------------------------------|------------|--------------|--------------|--------------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm)         |            |              |              |              | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                         |            | 512          | 661          | 810          |         |                  | 512                             | 661   | 810   |         |
| GSM(GMSK)                       | GSM        | <b>26.85</b> | <b>26.77</b> | <b>26.65</b> | 28.00   | -9.19            | 17.66                           | 17.58 | 17.46 | 18.81   |
| GPRS/EGPRS<br>(GMSK)            | 1 TX Slot  | 26.79        | 26.48        | 26.56        | 28.00   | -9.19            | 17.60                           | 17.29 | 17.37 | 18.81   |
|                                 | 2 TX Slots | 23.66        | 23.65        | 23.52        | 25.00   | -6.18            | 17.48                           | 17.47 | 17.34 | 18.82   |
|                                 | 3 TX Slots | 21.77        | 21.69        | 21.78        | 23.00   | -4.42            | 17.35                           | 17.27 | 17.36 | 18.58   |
|                                 | 4 TX Slots | 20.95        | <b>20.85</b> | 20.86        | 22.00   | -3.17            | 17.78                           | 17.68 | 17.69 | 18.83   |
| EGPRS(8PSK)                     | 1 TX Slot  | 19.07        | 19.08        | 19.05        | 20.50   | -9.19            | 9.88                            | 9.89  | 9.86  | 11.31   |
|                                 | 2 TX Slots | 15.91        | 15.97        | 15.96        | 17.50   | -6.18            | 9.73                            | 9.79  | 9.78  | 11.32   |
|                                 | 3 TX Slots | 13.95        | 14.00        | 13.91        | 15.50   | -4.42            | 9.53                            | 9.58  | 9.49  | 11.08   |
|                                 | 4 TX Slots | 12.81        | 12.84        | 12.83        | 14.50   | -3.17            | 9.64                            | 9.67  | 9.66  | 11.33   |

Table 4 : Conducted Power of GSM



### 1.2.2 Conducted Power of WCDMA

| WCDMA Band II Receiver off/Hotspot off |              |       |              |       |         |
|----------------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm)           |              |       |              |       |         |
| Channel                                |              | 9262  | 9400         | 9538  | Tune up |
| WCDMA                                  | 12.2kbps RMC | 19.61 | <b>19.65</b> | 19.59 | 21.00   |
|                                        | 12.2kbps AMR | 19.51 | 19.64        | 19.58 | 21.00   |
| HSDPA                                  | Subtest 1    | 18.79 | 18.75        | 18.86 | 20.00   |
|                                        | Subtest 2    | 18.72 | 18.71        | 18.85 | 20.00   |
|                                        | Subtest 3    | 18.34 | 18.36        | 18.32 | 19.50   |
|                                        | Subtest 4    | 18.24 | 18.25        | 18.36 | 19.50   |
| HSUPA                                  | Subtest 1    | 18.86 | 18.79        | 18.83 | 20.00   |
|                                        | Subtest 2    | 16.81 | 16.76        | 16.86 | 18.00   |
|                                        | Subtest 3    | 17.82 | 17.75        | 17.82 | 19.00   |
|                                        | Subtest 4    | 16.83 | 16.71        | 16.80 | 18.00   |
|                                        | Subtest 5    | 18.83 | 18.82        | 18.83 | 20.00   |
| DC-HSDPA                               | Subtest 1    | 18.81 | 18.74        | 18.83 | 20.00   |
|                                        | Subtest 2    | 18.73 | 18.72        | 18.76 | 20.00   |
|                                        | Subtest 3    | 18.32 | 18.38        | 18.30 | 19.50   |
|                                        | Subtest 4    | 18.23 | 18.29        | 18.25 | 19.50   |

| WCDMA Band II Receiver on/Hotspot on |              |              |              |              |         |
|--------------------------------------|--------------|--------------|--------------|--------------|---------|
| Average Conducted Power(dBm)         |              |              |              |              |         |
| Channel                              |              | 9262         | 9400         | 9538         | Tune up |
| WCDMA                                | 12.2kbps RMC | <b>17.53</b> | <b>17.41</b> | <b>17.51</b> | 19.00   |
|                                      | 12.2kbps AMR | 17.51        | 17.37        | 17.49        | 19.00   |
| HSDPA                                | Subtest 1    | 16.96        | 16.99        | 17.10        | 18.00   |
|                                      | Subtest 2    | 16.95        | 16.94        | 17.06        | 18.00   |
|                                      | Subtest 3    | 16.54        | 16.51        | 16.54        | 17.50   |
|                                      | Subtest 4    | 16.51        | 16.51        | 16.54        | 17.50   |
| HSUPA                                | Subtest 1    | 17.09        | 17.00        | 17.09        | 18.00   |
|                                      | Subtest 2    | 15.07        | 14.96        | 15.04        | 16.00   |
|                                      | Subtest 3    | 16.06        | 15.99        | 16.01        | 17.00   |
|                                      | Subtest 4    | 15.12        | 15.00        | 15.01        | 16.00   |
|                                      | Subtest 5    | 16.99        | 17.04        | 17.00        | 18.00   |
| DC-HSDPA                             | Subtest 1    | 17.02        | 16.97        | 17.02        | 18.00   |
|                                      | Subtest 2    | 16.90        | 16.94        | 17.00        | 18.00   |
|                                      | Subtest 3    | 16.57        | 16.65        | 16.57        | 17.50   |
|                                      | Subtest 4    | 16.42        | 16.48        | 16.54        | 17.50   |



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| WCDMA Band IV Receiver off/Hotspot off |              |       |              |       |         |
|----------------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm)           |              |       |              |       |         |
| Channel                                |              | 1312  | 1412         | 1513  | Tune up |
| WCDMA                                  | 12.2kbps RMC | 18.81 | <b>18.87</b> | 18.85 | 20.10   |
|                                        | 12.2kbps AMR | 18.74 | 18.80        | 18.79 | 20.10   |
| HSDPA                                  | Subtest 1    | 17.71 | 17.57        | 17.72 | 19.10   |
|                                        | Subtest 2    | 17.61 | 17.61        | 17.65 | 19.10   |
|                                        | Subtest 3    | 17.22 | 17.12        | 17.17 | 18.60   |
|                                        | Subtest 4    | 17.15 | 17.03        | 17.11 | 18.60   |
| HSUPA                                  | Subtest 1    | 17.74 | 17.64        | 17.72 | 19.10   |
|                                        | Subtest 2    | 15.71 | 15.65        | 15.71 | 17.10   |
|                                        | Subtest 3    | 16.69 | 16.61        | 16.75 | 18.10   |
|                                        | Subtest 4    | 15.75 | 15.57        | 15.70 | 17.10   |
|                                        | Subtest 5    | 17.73 | 17.58        | 17.76 | 19.10   |
| DC-HSDPA                               | Subtest 1    | 17.70 | 17.59        | 17.74 | 19.10   |
|                                        | Subtest 2    | 17.60 | 17.63        | 17.70 | 19.10   |
|                                        | Subtest 3    | 17.23 | 17.11        | 17.24 | 18.60   |
|                                        | Subtest 4    | 17.10 | 17.08        | 17.14 | 18.60   |

| WCDMA Band IV Receiver on/Hotspot on |              |              |              |              |         |
|--------------------------------------|--------------|--------------|--------------|--------------|---------|
| Average Conducted Power(dBm)         |              |              |              |              |         |
| Channel                              |              | 1312         | 1412         | 1513         | Tune up |
| WCDMA                                | 12.2kbps RMC | <b>16.31</b> | <b>16.29</b> | <b>16.25</b> | 17.60   |
|                                      | 12.2kbps AMR | 16.25        | 16.18        | 16.14        | 17.60   |
| HSDPA                                | Subtest 1    | 15.21        | 15.06        | 15.25        | 16.60   |
|                                      | Subtest 2    | 15.14        | 15.14        | 15.17        | 16.60   |
|                                      | Subtest 3    | 14.70        | 14.67        | 14.66        | 16.10   |
|                                      | Subtest 4    | 14.65        | 14.58        | 14.61        | 16.10   |
| HSUPA                                | Subtest 1    | 15.27        | 15.13        | 15.23        | 16.60   |
|                                      | Subtest 2    | 13.24        | 13.16        | 13.17        | 14.60   |
|                                      | Subtest 3    | 14.17        | 14.17        | 14.21        | 15.60   |
|                                      | Subtest 4    | 13.21        | 13.11        | 13.17        | 14.60   |
|                                      | Subtest 5    | 15.25        | 15.06        | 15.27        | 16.60   |
| DC-HSDPA                             | Subtest 1    | 15.21        | 15.06        | 15.27        | 16.60   |
|                                      | Subtest 2    | 15.10        | 15.10        | 15.18        | 16.60   |
|                                      | Subtest 3    | 14.77        | 14.57        | 14.72        | 16.10   |
|                                      | Subtest 4    | 14.58        | 14.54        | 14.67        | 16.10   |



| WCDMA Band V Receiver off    |              |       |              |       |         |
|------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm) |              |       |              |       |         |
| Channel                      |              | 4132  | 4182         | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 23.78 | <b>23.75</b> | 23.74 | 25.00   |
|                              | 12.2kbps AMR | 23.71 | 23.68        | 23.63 | 25.00   |
| HSDPA                        | Subtest 1    | 22.31 | 22.32        | 22.31 | 24.00   |
|                              | Subtest 2    | 22.19 | 22.27        | 22.28 | 24.00   |
|                              | Subtest 3    | 21.73 | 21.76        | 21.80 | 23.50   |
|                              | Subtest 4    | 21.74 | 21.77        | 21.77 | 23.50   |
| HSUPA                        | Subtest 1    | 22.27 | 22.32        | 22.31 | 24.00   |
|                              | Subtest 2    | 20.26 | 20.29        | 20.31 | 22.00   |
|                              | Subtest 3    | 21.29 | 21.36        | 21.34 | 23.00   |
|                              | Subtest 4    | 20.28 | 20.27        | 20.25 | 22.00   |
|                              | Subtest 5    | 22.29 | 22.36        | 22.35 | 24.00   |
| DC-HSDPA                     | Subtest 1    | 22.32 | 22.33        | 22.32 | 24.00   |
|                              | Subtest 2    | 22.15 | 22.28        | 22.23 | 24.00   |
|                              | Subtest 3    | 21.70 | 21.72        | 21.81 | 23.50   |
|                              | Subtest 4    | 21.71 | 21.74        | 21.74 | 23.50   |

| WCDMA Band V Receiver on     |              |       |              |       |         |
|------------------------------|--------------|-------|--------------|-------|---------|
| Average Conducted Power(dBm) |              |       |              |       |         |
| Channel                      |              | 4132  | 4182         | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.74 | <b>22.68</b> | 22.64 | 23.50   |
|                              | 12.2kbps AMR | 22.63 | 22.57        | 22.55 | 23.50   |
| HSDPA                        | Subtest 1    | 20.92 | 20.91        | 20.90 | 22.50   |
|                              | Subtest 2    | 20.80 | 20.84        | 20.87 | 22.50   |
|                              | Subtest 3    | 20.32 | 20.38        | 20.38 | 22.00   |
|                              | Subtest 4    | 20.32 | 20.37        | 20.34 | 22.00   |
| HSUPA                        | Subtest 1    | 20.85 | 20.89        | 20.94 | 22.50   |
|                              | Subtest 2    | 18.85 | 18.88        | 18.94 | 20.50   |
|                              | Subtest 3    | 19.86 | 19.97        | 19.92 | 21.50   |
|                              | Subtest 4    | 18.88 | 18.87        | 18.84 | 20.50   |
|                              | Subtest 5    | 20.90 | 20.96        | 20.92 | 22.50   |
| DC-HSDPA                     | Subtest 1    | 20.94 | 20.91        | 20.93 | 22.50   |
|                              | Subtest 2    | 20.77 | 20.90        | 20.80 | 22.50   |
|                              | Subtest 3    | 20.28 | 20.35        | 20.44 | 22.00   |
|                              | Subtest 4    | 20.28 | 20.32        | 20.34 | 22.00   |

Table 5 : Conducted Power of WCDMA



### 1.2.3 Conducted Power of LTE

| LTE Band 2 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                 | QPSK       | 1       | 0         | 15.95                | 16.02   | 15.93   | 16.90   |
|                        |            | 1       | 2         | 15.95                | 16.01   | 16.00   | 16.90   |
|                        |            | 1       | 5         | 15.98                | 16.03   | 15.57   | 16.90   |
|                        |            | 3       | 0         | 15.25                | 15.28   | 15.22   | 16.90   |
|                        |            | 3       | 2         | 15.21                | 15.22   | 15.15   | 16.90   |
|                        |            | 3       | 3         | 15.20                | 15.14   | 15.15   | 16.90   |
|                        |            | 6       | 0         | 15.38                | 15.42   | 15.34   | 16.90   |
|                        | 16QAM      | 1       | 0         | 15.29                | 15.32   | 15.29   | 16.90   |
|                        |            | 1       | 2         | 15.34                | 15.38   | 15.30   | 16.90   |
|                        |            | 1       | 5         | 15.33                | 15.31   | 15.31   | 16.90   |
|                        |            | 3       | 0         | 15.30                | 15.36   | 15.22   | 16.90   |
|                        |            | 3       | 2         | 15.34                | 15.31   | 15.33   | 16.90   |
|                        |            | 3       | 3         | 15.36                | 15.27   | 15.27   | 16.90   |
|                        |            | 6       | 0         | 15.31                | 15.38   | 15.32   | 16.90   |
|                        | 64QAM      | 1       | 0         | 15.35                | 15.31   | 15.40   | 16.90   |
|                        |            | 1       | 2         | 15.29                | 15.30   | 15.37   | 16.90   |
|                        |            | 1       | 5         | 15.41                | 15.31   | 15.30   | 16.90   |
|                        |            | 3       | 0         | 15.32                | 15.38   | 15.41   | 16.90   |
|                        |            | 3       | 2         | 15.41                | 15.25   | 15.34   | 16.90   |
|                        |            | 3       | 3         | 15.38                | 15.35   | 15.41   | 16.90   |
|                        |            | 6       | 0         | 15.30                | 15.34   | 15.28   | 16.90   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                   | QPSK       | 1       | 0         | 15.95                | 16.07   | 15.97   | 16.90   |
|                        |            | 1       | 7         | 15.96                | 16.04   | 16.01   | 16.90   |
|                        |            | 1       | 14        | 15.95                | 16.02   | 15.96   | 16.90   |
|                        |            | 8       | 0         | 15.31                | 15.32   | 15.41   | 16.90   |
|                        |            | 8       | 4         | 15.35                | 15.34   | 15.37   | 16.90   |
|                        |            | 8       | 7         | 15.37                | 15.37   | 15.31   | 16.90   |
|                        |            | 15      | 0         | 15.39                | 15.33   | 15.35   | 16.90   |
|                        | 16QAM      | 1       | 0         | 15.31                | 15.32   | 15.22   | 16.90   |
|                        |            | 1       | 7         | 15.33                | 15.34   | 15.29   | 16.90   |
|                        |            | 1       | 14        | 15.36                | 15.32   | 15.30   | 16.90   |
|                        |            | 8       | 0         | 15.33                | 15.37   | 15.28   | 16.90   |
|                        |            | 8       | 4         | 15.29                | 15.29   | 15.33   | 16.90   |
|                        |            | 8       | 7         | 15.29                | 15.32   | 15.31   | 16.90   |
|                        |            | 15      | 0         | 15.33                | 15.28   | 15.30   | 16.90   |
|                        | 64QAM      | 1       | 0         | 15.25                | 15.31   | 15.40   | 16.90   |
|                        |            | 1       | 7         | 15.31                | 15.33   | 15.40   | 16.90   |
|                        |            | 1       | 14        | 15.32                | 15.34   | 15.33   | 16.90   |
|                        |            | 8       | 0         | 15.35                | 15.31   | 15.36   | 16.90   |
|                        |            | 8       | 4         | 15.26                | 15.31   | 15.29   | 16.90   |
|                        |            | 8       | 7         | 15.25                | 15.36   | 15.38   | 16.90   |



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|           |            | 15      | 0         | 15.26   | 15.29   | 15.27   | 16.90   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 15.53   | 15.56   | 15.50   | 16.90   |
|           |            | 1       | 13        | 15.51   | 15.55   | 15.49   | 16.90   |
|           |            | 1       | 24        | 15.30   | 15.46   | 15.48   | 16.90   |
|           |            | 12      | 0         | 15.38   | 15.42   | 15.34   | 16.90   |
|           |            | 12      | 6         | 15.40   | 15.43   | 15.29   | 16.90   |
|           |            | 12      | 13        | 15.42   | 15.41   | 15.35   | 16.90   |
|           |            | 25      | 0         | 15.48   | 15.44   | 15.41   | 16.90   |
|           | 16QAM      | 1       | 0         | 15.40   | 15.43   | 15.30   | 16.90   |
|           |            | 1       | 13        | 15.39   | 15.39   | 15.37   | 16.90   |
|           |            | 1       | 24        | 15.41   | 15.36   | 15.39   | 16.90   |
|           |            | 12      | 0         | 15.37   | 15.36   | 15.30   | 16.90   |
|           |            | 12      | 6         | 15.35   | 15.34   | 15.44   | 16.90   |
|           |            | 12      | 13        | 15.33   | 15.34   | 15.30   | 16.90   |
|           |            | 25      | 0         | 15.37   | 15.40   | 15.32   | 16.90   |
|           | 64QAM      | 1       | 0         | 15.38   | 15.32   | 15.40   | 16.90   |
|           |            | 1       | 13        | 15.37   | 15.30   | 15.33   | 16.90   |
|           |            | 1       | 24        | 15.25   | 15.29   | 15.34   | 16.90   |
|           |            | 12      | 0         | 15.31   | 15.25   | 15.40   | 16.90   |
|           |            | 12      | 6         | 15.30   | 15.27   | 15.26   | 16.90   |
|           |            | 12      | 13        | 15.25   | 15.42   | 15.31   | 16.90   |
|           |            | 25      | 0         | 15.25   | 15.25   | 15.34   | 16.90   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 15.31   | 15.58   | 15.31   | 16.90   |
|           |            | 1       | 25        | 15.52   | 15.40   | 15.50   | 16.90   |
|           |            | 1       | 49        | 15.54   | 15.49   | 15.51   | 16.90   |
|           |            | 25      | 0         | 15.41   | 15.35   | 15.50   | 16.90   |
|           |            | 25      | 13        | 15.40   | 15.37   | 15.34   | 16.90   |
|           |            | 25      | 25        | 15.36   | 15.44   | 15.41   | 16.90   |
|           |            | 50      | 0         | 15.37   | 15.35   | 15.36   | 16.90   |
|           | 16QAM      | 1       | 0         | 15.34   | 15.44   | 15.29   | 16.90   |
|           |            | 1       | 25        | 15.35   | 15.39   | 15.30   | 16.90   |
|           |            | 1       | 49        | 15.30   | 15.31   | 15.30   | 16.90   |
|           |            | 25      | 0         | 15.39   | 15.38   | 15.44   | 16.90   |
|           |            | 25      | 13        | 15.36   | 15.36   | 15.30   | 16.90   |
|           |            | 25      | 25        | 15.41   | 15.40   | 15.40   | 16.90   |
|           |            | 50      | 0         | 15.38   | 15.35   | 15.34   | 16.90   |
|           | 64QAM      | 1       | 0         | 15.40   | 15.36   | 15.38   | 16.90   |
|           |            | 1       | 25        | 15.40   | 15.33   | 15.32   | 16.90   |
|           |            | 1       | 49        | 15.26   | 15.31   | 15.37   | 16.90   |
|           |            | 25      | 0         | 15.27   | 15.39   | 15.26   | 16.90   |
|           |            | 25      | 13        | 15.26   | 15.36   | 15.32   | 16.90   |
|           |            | 25      | 25        | 15.34   | 15.26   | 15.35   | 16.90   |
|           |            | 50      | 0         | 15.34   | 15.38   | 15.36   | 16.90   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 15.40   | 15.40   | 15.33   | 16.90   |



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|------------------|------------|---------|-----------|--------------|--------------|--------------|---------|
|                  |            | 1       | 38        | 15.36        | 15.42        | 15.40        | 16.90   |
|                  |            | 1       | 74        | 15.38        | 15.36        | 15.36        | 16.90   |
|                  |            | 36      | 0         | 15.39        | 15.36        | 15.40        | 16.90   |
|                  |            | 36      | 18        | 15.41        | 15.36        | 15.38        | 16.90   |
|                  |            | 36      | 39        | 15.28        | 15.34        | 15.40        | 16.90   |
|                  |            | 75      | 0         | 15.40        | 15.27        | 15.34        | 16.90   |
|                  | 16QAM      | 1       | 0         | 15.21        | 15.36        | 15.36        | 16.90   |
|                  |            | 1       | 38        | 15.32        | 15.38        | 15.22        | 16.90   |
|                  |            | 1       | 74        | 15.29        | 15.26        | 15.27        | 16.90   |
|                  |            | 36      | 0         | 15.34        | 15.33        | 15.32        | 16.90   |
|                  |            | 36      | 18        | 15.36        | 15.35        | 15.36        | 16.90   |
|                  |            | 36      | 39        | 15.37        | 15.36        | 15.36        | 16.90   |
|                  |            | 75      | 0         | 15.33        | 15.32        | 15.34        | 16.90   |
|                  | 64QAM      | 1       | 0         | 15.34        | 15.34        | 15.32        | 16.90   |
|                  |            | 1       | 38        | 15.25        | 15.34        | 15.33        | 16.90   |
|                  |            | 1       | 74        | 15.42        | 15.36        | 15.42        | 16.90   |
|                  |            | 36      | 0         | 15.37        | 15.36        | 15.29        | 16.90   |
|                  |            | 36      | 18        | 15.33        | 15.34        | 15.29        | 16.90   |
|                  |            | 36      | 39        | 15.39        | 15.34        | 15.40        | 16.90   |
|                  |            | 75      | 0         | 15.28        | 15.27        | 15.38        | 16.90   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|                  |            |         |           | 18700        | 18900        | 19100        |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 15.29        | 15.26        | 15.08        | 16.90   |
|                  |            | 1       | 50        | 15.32        | <b>15.33</b> | 15.16        | 16.90   |
|                  |            | 1       | 99        | 15.21        | 15.19        | 15.01        | 16.90   |
|                  |            | 50      | 0         | 15.35        | 15.40        | <b>15.29</b> | 16.90   |
|                  |            | 50      | 25        | <b>15.45</b> | 15.41        | 15.26        | 16.90   |
|                  |            | 50      | 50        | 15.29        | 15.46        | 15.18        | 16.90   |
|                  |            | 100     | 0         | 15.39        | <b>15.40</b> | 15.23        | 16.90   |
|                  | 16QAM      | 1       | 0         | 15.34        | 15.22        | 15.16        | 16.90   |
|                  |            | 1       | 50        | 15.34        | 15.33        | 15.18        | 16.90   |
|                  |            | 1       | 99        | 15.17        | 15.25        | 15.08        | 16.90   |
|                  |            | 50      | 0         | 15.36        | 15.35        | 15.24        | 16.90   |
|                  |            | 50      | 25        | 15.39        | 15.31        | 15.21        | 16.90   |
|                  |            | 50      | 50        | 15.20        | 15.38        | 15.13        | 16.90   |
|                  |            | 100     | 0         | 15.42        | 15.33        | 15.22        | 16.90   |
|                  | 64QAM      | 1       | 0         | 15.30        | 15.30        | 15.38        | 16.90   |
|                  |            | 1       | 50        | 15.27        | 15.36        | 15.26        | 16.90   |
|                  |            | 1       | 99        | 15.32        | 15.32        | 15.26        | 16.90   |
|                  |            | 50      | 0         | 15.30        | 15.32        | 15.37        | 16.90   |
|                  |            | 50      | 25        | 15.28        | 15.37        | 15.34        | 16.90   |
|                  |            | 50      | 50        | 15.40        | 15.33        | 15.38        | 16.90   |
|                  |            | 100     | 0         | 15.37        | 15.39        | 15.42        | 16.90   |



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| LTE Band 2 Hotspot off/Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                              | QPSK       | 1       | 0         | 20.03                | 20.12   | 19.96   | 20.90   |
|                                     |            | 1       | 2         | 20.07                | 20.15   | 20.08   | 20.90   |
|                                     |            | 1       | 5         | 20.05                | 20.11   | 19.98   | 20.90   |
|                                     |            | 3       | 0         | 19.42                | 19.31   | 19.27   | 20.90   |
|                                     |            | 3       | 2         | 19.41                | 19.47   | 19.45   | 20.90   |
|                                     |            | 3       | 3         | 19.47                | 19.42   | 19.20   | 20.90   |
|                                     |            | 6       | 0         | 19.55                | 19.47   | 19.59   | 20.90   |
|                                     | 16QAM      | 1       | 0         | 19.41                | 19.29   | 19.40   | 20.90   |
|                                     |            | 1       | 2         | 19.36                | 19.33   | 19.34   | 20.90   |
|                                     |            | 1       | 5         | 19.29                | 19.31   | 19.33   | 20.90   |
|                                     |            | 3       | 0         | 19.38                | 19.40   | 19.32   | 20.90   |
|                                     |            | 3       | 2         | 19.44                | 19.41   | 19.39   | 20.90   |
|                                     |            | 3       | 3         | 19.41                | 19.40   | 19.42   | 20.90   |
|                                     |            | 6       | 0         | 19.40                | 19.37   | 19.35   | 20.90   |
|                                     | 64QAM      | 1       | 0         | 19.41                | 19.39   | 19.26   | 20.90   |
|                                     |            | 1       | 2         | 19.33                | 19.40   | 19.29   | 20.90   |
|                                     |            | 1       | 5         | 19.32                | 19.35   | 19.38   | 20.90   |
|                                     |            | 3       | 0         | 19.41                | 19.42   | 19.33   | 20.90   |
|                                     |            | 3       | 2         | 19.39                | 19.35   | 19.41   | 20.90   |
|                                     |            | 3       | 3         | 19.25                | 19.25   | 19.33   | 20.90   |
|                                     |            | 6       | 0         | 19.40                | 19.39   | 19.32   | 20.90   |
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                                | QPSK       | 1       | 0         | 20.03                | 20.12   | 19.96   | 20.90   |
|                                     |            | 1       | 7         | 20.04                | 20.11   | 19.95   | 20.90   |
|                                     |            | 1       | 14        | 20.03                | 20.05   | 20.03   | 20.90   |
|                                     |            | 8       | 0         | 19.41                | 19.40   | 19.40   | 20.90   |
|                                     |            | 8       | 4         | 19.42                | 19.39   | 19.33   | 20.90   |
|                                     |            | 8       | 7         | 19.43                | 19.43   | 19.38   | 20.90   |
|                                     |            | 15      | 0         | 19.37                | 19.40   | 19.36   | 20.90   |
|                                     | 16QAM      | 1       | 0         | 19.24                | 19.35   | 19.29   | 20.90   |
|                                     |            | 1       | 7         | 19.34                | 19.38   | 19.42   | 20.90   |
|                                     |            | 1       | 14        | 19.40                | 19.30   | 19.39   | 20.90   |
|                                     |            | 8       | 0         | 19.40                | 19.37   | 19.32   | 20.90   |
|                                     |            | 8       | 4         | 19.36                | 19.38   | 19.35   | 20.90   |
|                                     |            | 8       | 7         | 19.34                | 19.29   | 19.32   | 20.90   |
|                                     |            | 15      | 0         | 19.35                | 19.36   | 19.39   | 20.90   |
|                                     | 64QAM      | 1       | 0         | 19.42                | 19.41   | 19.28   | 20.90   |
|                                     |            | 1       | 7         | 19.36                | 19.34   | 19.27   | 20.90   |
|                                     |            | 1       | 14        | 19.38                | 19.28   | 19.40   | 20.90   |
|                                     |            | 8       | 0         | 19.36                | 19.33   | 19.25   | 20.90   |
|                                     |            | 8       | 4         | 19.30                | 19.39   | 19.27   | 20.90   |
|                                     |            | 8       | 7         | 19.35                | 19.27   | 19.37   | 20.90   |
|                                     |            | 15      | 0         | 19.26                | 19.34   | 19.33   | 20.90   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 20.05   | 19.64   | 19.59   | 20.90   |
|           |            | 1       | 13        | 19.66   | 19.62   | 19.61   | 20.90   |
|           |            | 1       | 24        | 19.60   | 19.63   | 19.68   | 20.90   |
|           |            | 12      | 0         | 19.44   | 19.44   | 19.35   | 20.90   |
|           |            | 12      | 6         | 19.35   | 19.44   | 19.40   | 20.90   |
|           |            | 12      | 13        | 19.43   | 19.42   | 19.38   | 20.90   |
|           |            | 25      | 0         | 19.48   | 19.42   | 19.44   | 20.90   |
|           | 16QAM      | 1       | 0         | 19.36   | 19.41   | 19.34   | 20.90   |
|           |            | 1       | 13        | 19.42   | 19.37   | 19.35   | 20.90   |
|           |            | 1       | 24        | 19.36   | 19.33   | 19.34   | 20.90   |
|           |            | 12      | 0         | 19.45   | 19.39   | 19.42   | 20.90   |
|           |            | 12      | 6         | 19.42   | 19.39   | 19.37   | 20.90   |
|           |            | 12      | 13        | 19.39   | 19.37   | 19.35   | 20.90   |
|           |            | 25      | 0         | 19.41   | 19.46   | 19.36   | 20.90   |
|           | 64QAM      | 1       | 0         | 19.32   | 19.30   | 19.36   | 20.90   |
|           |            | 1       | 13        | 19.39   | 19.41   | 19.38   | 20.90   |
|           |            | 1       | 24        | 19.31   | 19.37   | 19.38   | 20.90   |
|           |            | 12      | 0         | 19.40   | 19.37   | 19.42   | 20.90   |
|           |            | 12      | 6         | 19.36   | 19.41   | 19.42   | 20.90   |
|           |            | 12      | 13        | 19.35   | 19.41   | 19.29   | 20.90   |
|           |            | 25      | 0         | 19.28   | 19.39   | 19.30   | 20.90   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.94   | 20.01   | 19.94   | 20.90   |
|           |            | 1       | 25        | 19.97   | 19.55   | 19.94   | 20.90   |
|           |            | 1       | 49        | 19.89   | 19.98   | 19.93   | 20.90   |
|           |            | 25      | 0         | 19.32   | 19.28   | 19.39   | 20.90   |
|           |            | 25      | 13        | 19.34   | 19.36   | 19.31   | 20.90   |
|           |            | 25      | 25        | 19.31   | 19.42   | 19.35   | 20.90   |
|           |            | 50      | 0         | 19.34   | 19.39   | 19.28   | 20.90   |
|           | 16QAM      | 1       | 0         | 19.19   | 19.25   | 19.35   | 20.90   |
|           |            | 1       | 25        | 19.26   | 19.32   | 19.33   | 20.90   |
|           |            | 1       | 49        | 19.24   | 19.31   | 19.32   | 20.90   |
|           |            | 25      | 0         | 19.28   | 19.23   | 19.29   | 20.90   |
|           |            | 25      | 13        | 19.34   | 19.28   | 19.30   | 20.90   |
|           |            | 25      | 25        | 19.31   | 19.25   | 19.28   | 20.90   |
|           |            | 50      | 0         | 19.30   | 19.21   | 19.30   | 20.90   |
|           | 64QAM      | 1       | 0         | 19.37   | 19.41   | 19.30   | 20.90   |
|           |            | 1       | 25        | 19.36   | 19.41   | 19.25   | 20.90   |
|           |            | 1       | 49        | 19.30   | 19.42   | 19.34   | 20.90   |
|           |            | 25      | 0         | 19.25   | 19.37   | 19.25   | 20.90   |
|           |            | 25      | 13        | 19.36   | 19.26   | 19.38   | 20.90   |
|           |            | 25      | 25        | 19.40   | 19.38   | 19.40   | 20.90   |
|           |            | 50      | 0         | 19.42   | 19.38   | 19.33   | 20.90   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.04   | 20.06   | 20.05   | 20.90   |
|           |            | 1       | 38        | 20.08   | 19.63   | 20.04   | 20.90   |



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|                  |            |         |           |         |              |         |         |
|------------------|------------|---------|-----------|---------|--------------|---------|---------|
|                  |            | 1       | 74        | 19.98   | 20.04        | 20.03   | 20.90   |
|                  |            | 36      | 0         | 19.43   | 19.39        | 19.49   | 20.90   |
|                  |            | 36      | 18        | 19.44   | 19.41        | 19.37   | 20.90   |
|                  |            | 36      | 39        | 19.42   | 19.48        | 19.44   | 20.90   |
|                  |            | 75      | 0         | 19.39   | 19.44        | 19.35   | 20.90   |
|                  | 16QAM      | 1       | 0         | 19.25   | 19.36        | 19.44   | 20.90   |
|                  |            | 1       | 38        | 19.33   | 19.39        | 19.41   | 20.90   |
|                  |            | 1       | 74        | 19.30   | 19.36        | 19.40   | 20.90   |
|                  |            | 36      | 0         | 19.37   | 19.29        | 19.36   | 20.90   |
|                  |            | 36      | 18        | 19.39   | 19.38        | 19.41   | 20.90   |
|                  |            | 36      | 39        | 19.37   | 19.36        | 19.38   | 20.90   |
|                  |            | 75      | 0         | 19.40   | 19.32        | 19.41   | 20.90   |
|                  | 64QAM      | 1       | 0         | 19.41   | 19.26        | 19.27   | 20.90   |
|                  |            | 1       | 38        | 19.39   | 19.33        | 19.26   | 20.90   |
|                  |            | 1       | 74        | 19.32   | 19.32        | 19.30   | 20.90   |
|                  |            | 36      | 0         | 19.35   | 19.42        | 19.36   | 20.90   |
|                  |            | 36      | 18        | 19.36   | 19.36        | 19.32   | 20.90   |
|                  |            | 36      | 39        | 19.34   | 19.41        | 19.28   | 20.90   |
|                  |            | 75      | 0         | 19.39   | 19.37        | 19.36   | 20.90   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel | Channel      | Channel | Tune up |
|                  |            |         |           | 18700   | 18900        | 19100   |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 19.95   | 19.99        | 19.83   | 20.90   |
|                  |            | 1       | 50        | 20.00   | 20.02        | 19.47   | 20.90   |
|                  |            | 1       | 99        | 19.99   | 20.07        | 19.86   | 20.90   |
|                  |            | 50      | 0         | 19.45   | <b>19.55</b> | 19.39   | 20.90   |
|                  |            | 50      | 25        | 19.51   | 19.43        | 19.37   | 20.90   |
|                  |            | 50      | 50        | 19.42   | 19.49        | 19.24   | 20.90   |
|                  |            | 100     | 0         | 19.34   | 19.46        | 19.25   | 20.90   |
|                  | 16QAM      | 1       | 0         | 19.38   | 19.26        | 19.09   | 20.90   |
|                  |            | 1       | 50        | 19.36   | 19.35        | 19.32   | 20.90   |
|                  |            | 1       | 99        | 19.28   | 19.31        | 19.20   | 20.90   |
|                  |            | 50      | 0         | 19.37   | 19.42        | 19.37   | 20.90   |
|                  |            | 50      | 25        | 19.43   | 19.39        | 19.30   | 20.90   |
|                  |            | 50      | 50        | 19.38   | 19.40        | 19.24   | 20.90   |
|                  |            | 100     | 0         | 19.43   | 19.38        | 19.29   | 20.90   |
|                  | 64QAM      | 1       | 0         | 19.28   | 19.35        | 19.40   | 20.90   |
|                  |            | 1       | 50        | 19.30   | 19.36        | 19.25   | 20.90   |
|                  |            | 1       | 99        | 19.40   | 19.32        | 19.25   | 20.90   |
|                  |            | 50      | 0         | 19.38   | 19.26        | 19.27   | 20.90   |
|                  |            | 50      | 25        | 19.30   | 19.37        | 19.35   | 20.90   |
|                  |            | 50      | 50        | 19.29   | 19.28        | 19.34   | 20.90   |
|                  |            | 100     | 0         | 19.32   | 19.32        | 19.34   | 20.90   |



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| LTE Band 2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 18.45                | 18.51   | 18.36   | 19.40   |
|                       |            | 1       | 2         | 18.48                | 18.56   | 18.49   | 19.40   |
|                       |            | 1       | 5         | 18.46                | 18.50   | 18.38   | 19.40   |
|                       |            | 3       | 0         | 17.81                | 17.74   | 17.68   | 19.40   |
|                       |            | 3       | 2         | 17.80                | 17.91   | 17.88   | 19.40   |
|                       |            | 3       | 3         | 17.88                | 17.86   | 17.62   | 19.40   |
|                       |            | 6       | 0         | 18.00                | 17.87   | 18.01   | 19.40   |
|                       | 16QAM      | 1       | 0         | 17.85                | 17.68   | 17.81   | 19.40   |
|                       |            | 1       | 2         | 17.80                | 17.73   | 17.79   | 19.40   |
|                       |            | 1       | 5         | 17.70                | 17.74   | 17.77   | 19.40   |
|                       |            | 3       | 0         | 17.79                | 17.82   | 17.72   | 19.40   |
|                       |            | 3       | 2         | 17.83                | 17.82   | 17.83   | 19.40   |
|                       |            | 3       | 3         | 17.82                | 17.80   | 17.83   | 19.40   |
|                       |            | 6       | 0         | 17.83                | 17.81   | 17.77   | 19.40   |
|                       | 64QAM      | 1       | 0         | 17.84                | 17.78   | 17.68   | 19.40   |
|                       |            | 1       | 2         | 17.73                | 17.81   | 17.73   | 19.40   |
|                       |            | 1       | 5         | 17.73                | 17.74   | 17.82   | 19.40   |
|                       |            | 3       | 0         | 17.85                | 17.82   | 17.74   | 19.40   |
|                       |            | 3       | 2         | 17.84                | 17.80   | 17.83   | 19.40   |
|                       |            | 3       | 3         | 17.70                | 17.64   | 17.76   | 19.40   |
|                       |            | 6       | 0         | 17.83                | 17.81   | 17.77   | 19.40   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                  | QPSK       | 1       | 0         | 18.44                | 18.57   | 18.37   | 19.40   |
|                       |            | 1       | 7         | 18.48                | 18.50   | 18.39   | 19.40   |
|                       |            | 1       | 14        | 18.44                | 18.46   | 18.42   | 19.40   |
|                       |            | 8       | 0         | 17.83                | 17.84   | 17.80   | 19.40   |
|                       |            | 8       | 4         | 17.82                | 17.81   | 17.76   | 19.40   |
|                       |            | 8       | 7         | 17.82                | 17.82   | 17.80   | 19.40   |
|                       |            | 15      | 0         | 17.77                | 17.81   | 17.80   | 19.40   |
|                       | 16QAM      | 1       | 0         | 17.67                | 17.80   | 17.73   | 19.40   |
|                       |            | 1       | 7         | 17.74                | 17.77   | 17.83   | 19.40   |
|                       |            | 1       | 14        | 17.82                | 17.72   | 17.84   | 19.40   |
|                       |            | 8       | 0         | 17.79                | 17.80   | 17.73   | 19.40   |
|                       |            | 8       | 4         | 17.78                | 17.77   | 17.79   | 19.40   |
|                       |            | 8       | 7         | 17.77                | 17.69   | 17.75   | 19.40   |
|                       |            | 15      | 0         | 17.78                | 17.79   | 17.84   | 19.40   |
|                       | 64QAM      | 1       | 0         | 17.87                | 17.86   | 17.71   | 19.40   |
|                       |            | 1       | 7         | 17.75                | 17.77   | 17.66   | 19.40   |
|                       |            | 1       | 14        | 17.81                | 17.71   | 17.85   | 19.40   |
|                       |            | 8       | 0         | 17.75                | 17.76   | 17.70   | 19.40   |
|                       |            | 8       | 4         | 17.74                | 17.81   | 17.68   | 19.40   |
|                       |            | 8       | 7         | 17.77                | 17.69   | 17.77   | 19.40   |
|                       |            | 15      | 0         | 17.66                | 17.78   | 17.77   | 19.40   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 18.44   | 18.07   | 17.98   | 19.40   |
|           |            | 1       | 13        | 18.08   | 18.02   | 18.03   | 19.40   |
|           |            | 1       | 24        | 18.01   | 18.04   | 18.13   | 19.40   |
|           |            | 12      | 0         | 17.87   | 17.84   | 17.77   | 19.40   |
|           |            | 12      | 6         | 17.75   | 17.84   | 17.85   | 19.40   |
|           |            | 12      | 13        | 17.85   | 17.81   | 17.80   | 19.40   |
|           |            | 25      | 0         | 17.92   | 17.82   | 17.85   | 19.40   |
|           | 16QAM      | 1       | 0         | 17.81   | 17.80   | 17.77   | 19.40   |
|           |            | 1       | 13        | 17.85   | 17.82   | 17.77   | 19.40   |
|           |            | 1       | 24        | 17.77   | 17.77   | 17.73   | 19.40   |
|           |            | 12      | 0         | 17.87   | 17.83   | 17.86   | 19.40   |
|           |            | 12      | 6         | 17.86   | 17.81   | 17.76   | 19.40   |
|           |            | 12      | 13        | 17.79   | 17.79   | 17.77   | 19.40   |
|           |            | 25      | 0         | 17.85   | 17.86   | 17.78   | 19.40   |
|           | 64QAM      | 1       | 0         | 17.72   | 17.75   | 17.77   | 19.40   |
|           |            | 1       | 13        | 17.78   | 17.85   | 17.81   | 19.40   |
|           |            | 1       | 24        | 17.73   | 17.81   | 17.83   | 19.40   |
|           |            | 12      | 0         | 17.82   | 17.80   | 17.86   | 19.40   |
|           |            | 12      | 6         | 17.80   | 17.80   | 17.86   | 19.40   |
|           |            | 12      | 13        | 17.77   | 17.83   | 17.74   | 19.40   |
|           |            | 25      | 0         | 17.73   | 17.84   | 17.70   | 19.40   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 18.37   | 18.40   | 18.36   | 19.40   |
|           |            | 1       | 25        | 18.38   | 18.00   | 18.36   | 19.40   |
|           |            | 1       | 49        | 18.29   | 18.43   | 18.37   | 19.40   |
|           |            | 25      | 0         | 17.76   | 17.73   | 17.81   | 19.40   |
|           |            | 25      | 13        | 17.79   | 17.79   | 17.70   | 19.40   |
|           |            | 25      | 25        | 17.76   | 17.86   | 17.76   | 19.40   |
|           |            | 50      | 0         | 17.77   | 17.84   | 17.70   | 19.40   |
|           | 16QAM      | 1       | 0         | 17.61   | 17.70   | 17.75   | 19.40   |
|           |            | 1       | 25        | 17.69   | 17.76   | 17.77   | 19.40   |
|           |            | 1       | 49        | 17.63   | 17.73   | 17.75   | 19.40   |
|           |            | 25      | 0         | 17.67   | 17.66   | 17.68   | 19.40   |
|           |            | 25      | 13        | 17.76   | 17.72   | 17.72   | 19.40   |
|           |            | 25      | 25        | 17.72   | 17.70   | 17.70   | 19.40   |
|           |            | 50      | 0         | 17.69   | 17.63   | 17.70   | 19.40   |
|           | 64QAM      | 1       | 0         | 17.79   | 17.80   | 17.69   | 19.40   |
|           |            | 1       | 25        | 17.81   | 17.80   | 17.66   | 19.40   |
|           |            | 1       | 49        | 17.74   | 17.84   | 17.79   | 19.40   |
|           |            | 25      | 0         | 17.67   | 17.80   | 17.69   | 19.40   |
|           |            | 25      | 13        | 17.75   | 17.65   | 17.81   | 19.40   |
|           |            | 25      | 25        | 17.81   | 17.82   | 17.80   | 19.40   |
|           |            | 50      | 0         | 17.86   | 17.77   | 17.78   | 19.40   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.47   | 18.47   | 18.45   | 19.40   |
|           |            | 1       | 38        | 18.53   | 18.07   | 18.44   | 19.40   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 74        | 18.40   | 18.45   | 18.42   | 19.40   |
|           |            | 36      | 0         | 17.87   | 17.83   | 17.92   | 19.40   |
|           |            | 36      | 18        | 17.87   | 17.86   | 17.76   | 19.40   |
|           |            | 36      | 39        | 17.85   | 17.91   | 17.87   | 19.40   |
|           |            | 75      | 0         | 17.78   | 17.85   | 17.80   | 19.40   |
|           | 16QAM      | 1       | 0         | 17.65   | 17.79   | 17.85   | 19.40   |
|           |            | 1       | 38        | 17.75   | 17.81   | 17.81   | 19.40   |
|           |            | 1       | 74        | 17.71   | 17.77   | 17.81   | 19.40   |
|           |            | 36      | 0         | 17.76   | 17.74   | 17.77   | 19.40   |
|           |            | 36      | 18        | 17.80   | 17.80   | 17.83   | 19.40   |
|           |            | 36      | 39        | 17.78   | 17.76   | 17.81   | 19.40   |
|           |            | 75      | 0         | 17.79   | 17.76   | 17.80   | 19.40   |
|           | 64QAM      | 1       | 0         | 17.86   | 17.69   | 17.69   | 19.40   |
|           |            | 1       | 38        | 17.81   | 17.77   | 17.71   | 19.40   |
|           |            | 1       | 74        | 17.77   | 17.72   | 17.72   | 19.40   |
|           |            | 36      | 0         | 17.74   | 17.86   | 17.78   | 19.40   |
|           |            | 36      | 18        | 17.78   | 17.80   | 17.73   | 19.40   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.38   | 18.40   | 18.28   | 19.40   |
|           |            | 1       | 50        | 18.41   | 18.47   | 18.19   | 19.40   |
|           |            | 1       | 99        | 18.41   | 18.42   | 18.28   | 19.40   |
|           |            | 50      | 0         | 17.88   | 17.98   | 17.78   | 19.40   |
|           |            | 50      | 25        | 17.95   | 17.88   | 17.81   | 19.40   |
|           |            | 50      | 50        | 17.87   | 17.93   | 17.63   | 19.40   |
|           |            | 100     | 0         | 17.76   | 17.87   | 17.66   | 19.40   |
|           | 16QAM      | 1       | 0         | 17.81   | 17.66   | 17.49   | 19.40   |
|           |            | 1       | 50        | 17.76   | 17.76   | 17.72   | 19.40   |
|           |            | 1       | 99        | 17.70   | 17.71   | 17.65   | 19.40   |
|           |            | 50      | 0         | 17.81   | 17.87   | 17.78   | 19.40   |
|           |            | 50      | 25        | 17.83   | 17.83   | 17.71   | 19.40   |
|           |            | 50      | 50        | 17.78   | 17.83   | 17.64   | 19.40   |
|           |            | 100     | 0         | 17.83   | 17.77   | 17.70   | 19.40   |
|           | 64QAM      | 1       | 0         | 17.69   | 17.77   | 17.82   | 19.40   |
|           |            | 1       | 50        | 17.73   | 17.80   | 17.64   | 19.40   |
|           |            | 1       | 99        | 17.81   | 17.73   | 17.70   | 19.40   |
|           |            | 50      | 0         | 17.77   | 17.67   | 17.70   | 19.40   |
|           |            | 50      | 25        | 17.70   | 17.81   | 17.77   | 19.40   |
|           |            | 50      | 50        | 17.73   | 17.69   | 17.77   | 19.40   |
|           |            | 100     | 0         | 17.74   | 17.71   | 17.79   | 19.40   |



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| LTE Band 4 Receiver off/Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                              | QPSK       | 1       | 0         | 18.61                | 18.73   | 18.76   | 19.60   |
|                                     |            | 1       | 2         | 18.68                | 18.78   | 18.68   | 19.60   |
|                                     |            | 1       | 5         | 18.72                | 18.75   | 18.69   | 19.60   |
|                                     |            | 3       | 0         | 18.09                | 18.21   | 18.12   | 19.60   |
|                                     |            | 3       | 2         | 18.07                | 18.13   | 18.16   | 19.60   |
|                                     |            | 3       | 3         | 18.19                | 18.13   | 17.95   | 19.60   |
|                                     |            | 6       | 0         | 18.36                | 18.41   | 18.17   | 19.60   |
|                                     | 16QAM      | 1       | 0         | 18.31                | 18.10   | 17.93   | 19.60   |
|                                     |            | 1       | 2         | 18.25                | 18.20   | 18.14   | 19.60   |
|                                     |            | 1       | 5         | 18.14                | 18.20   | 18.11   | 19.60   |
|                                     |            | 3       | 0         | 18.20                | 18.15   | 18.18   | 19.60   |
|                                     |            | 3       | 2         | 18.21                | 18.14   | 17.98   | 19.60   |
|                                     |            | 3       | 3         | 18.19                | 18.12   | 18.02   | 19.60   |
|                                     |            | 6       | 0         | 18.17                | 18.16   | 18.00   | 19.60   |
|                                     | 64QAM      | 1       | 0         | 17.97                | 17.99   | 18.02   | 19.60   |
|                                     |            | 1       | 2         | 18.03                | 17.99   | 18.02   | 19.60   |
|                                     |            | 1       | 5         | 18.08                | 18.11   | 18.00   | 19.60   |
|                                     |            | 3       | 0         | 18.09                | 17.98   | 18.10   | 19.60   |
|                                     |            | 3       | 2         | 18.09                | 18.07   | 17.96   | 19.60   |
|                                     |            | 3       | 3         | 18.06                | 17.97   | 18.09   | 19.60   |
|                                     |            | 6       | 0         | 18.02                | 18.00   | 18.08   | 19.60   |
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                                | QPSK       | 1       | 0         | 18.74                | 18.62   | 18.79   | 19.60   |
|                                     |            | 1       | 7         | 18.75                | 18.82   | 18.75   | 19.60   |
|                                     |            | 1       | 14        | 18.72                | 18.63   | 18.75   | 19.60   |
|                                     |            | 8       | 0         | 18.21                | 18.07   | 18.18   | 19.60   |
|                                     |            | 8       | 4         | 18.21                | 18.29   | 18.17   | 19.60   |
|                                     |            | 8       | 7         | 18.18                | 18.14   | 18.09   | 19.60   |
|                                     |            | 15      | 0         | 18.18                | 18.13   | 18.18   | 19.60   |
|                                     | 16QAM      | 1       | 0         | 18.26                | 18.17   | 18.02   | 19.60   |
|                                     |            | 1       | 7         | 18.31                | 18.14   | 18.17   | 19.60   |
|                                     |            | 1       | 14        | 18.22                | 18.10   | 17.97   | 19.60   |
|                                     |            | 8       | 0         | 18.17                | 18.11   | 18.20   | 19.60   |
|                                     |            | 8       | 4         | 18.19                | 18.10   | 18.15   | 19.60   |
|                                     |            | 8       | 7         | 18.10                | 18.07   | 18.03   | 19.60   |
|                                     |            | 15      | 0         | 18.19                | 18.12   | 18.01   | 19.60   |
|                                     | 64QAM      | 1       | 0         | 17.99                | 17.99   | 17.96   | 19.60   |
|                                     |            | 1       | 7         | 18.12                | 18.04   | 18.08   | 19.60   |
|                                     |            | 1       | 14        | 18.12                | 18.04   | 18.06   | 19.60   |
|                                     |            | 8       | 0         | 18.07                | 18.04   | 17.95   | 19.60   |
|                                     |            | 8       | 4         | 18.11                | 18.09   | 18.03   | 19.60   |
|                                     |            | 8       | 7         | 17.96                | 18.00   | 18.03   | 19.60   |
|                                     |            | 15      | 0         | 18.09                | 17.99   | 18.01   | 19.60   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 18.41   | 18.43   | 18.33   | 19.60   |
|           |            | 1       | 13        | 18.40   | 18.38   | 18.42   | 19.60   |
|           |            | 1       | 24        | 18.45   | 18.36   | 18.32   | 19.60   |
|           |            | 12      | 0         | 18.18   | 18.18   | 18.13   | 19.60   |
|           |            | 12      | 6         | 18.26   | 18.21   | 18.12   | 19.60   |
|           |            | 12      | 13        | 18.11   | 18.14   | 18.11   | 19.60   |
|           |            | 25      | 0         | 18.22   | 18.22   | 18.17   | 19.60   |
|           | 16QAM      | 1       | 0         | 18.20   | 18.14   | 18.06   | 19.60   |
|           |            | 1       | 13        | 18.18   | 18.10   | 18.05   | 19.60   |
|           |            | 1       | 24        | 18.19   | 18.14   | 18.04   | 19.60   |
|           |            | 12      | 0         | 18.26   | 18.19   | 18.09   | 19.60   |
|           |            | 12      | 6         | 18.17   | 18.22   | 18.19   | 19.60   |
|           |            | 12      | 13        | 18.15   | 18.17   | 18.07   | 19.60   |
|           |            | 25      | 0         | 18.21   | 18.17   | 18.13   | 19.60   |
|           | 64QAM      | 1       | 0         | 18.05   | 18.00   | 18.04   | 19.60   |
|           |            | 1       | 13        | 18.07   | 17.99   | 18.02   | 19.60   |
|           |            | 1       | 24        | 18.03   | 18.00   | 18.02   | 19.60   |
|           |            | 12      | 0         | 17.98   | 18.11   | 18.00   | 19.60   |
|           |            | 12      | 6         | 17.96   | 18.00   | 18.04   | 19.60   |
|           |            | 12      | 13        | 17.98   | 18.07   | 18.06   | 19.60   |
|           |            | 25      | 0         | 17.97   | 18.00   | 18.02   | 19.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 18.75   | 18.78   | 18.37   | 19.60   |
|           |            | 1       | 25        | 18.79   | 18.27   | 18.74   | 19.60   |
|           |            | 1       | 49        | 18.44   | 18.36   | 18.27   | 19.60   |
|           |            | 25      | 0         | 18.34   | 18.18   | 18.24   | 19.60   |
|           |            | 25      | 13        | 18.27   | 18.34   | 18.17   | 19.60   |
|           |            | 25      | 25        | 18.21   | 18.21   | 18.17   | 19.60   |
|           |            | 50      | 0         | 18.23   | 18.25   | 18.09   | 19.60   |
|           | 16QAM      | 1       | 0         | 18.30   | 18.13   | 18.09   | 19.60   |
|           |            | 1       | 25        | 18.33   | 18.20   | 18.09   | 19.60   |
|           |            | 1       | 49        | 18.23   | 18.18   | 18.07   | 19.60   |
|           |            | 25      | 0         | 18.21   | 18.18   | 18.03   | 19.60   |
|           |            | 25      | 13        | 18.24   | 18.20   | 18.18   | 19.60   |
|           |            | 25      | 25        | 18.13   | 18.13   | 18.20   | 19.60   |
|           |            | 50      | 0         | 18.27   | 18.18   | 18.04   | 19.60   |
|           | 64QAM      | 1       | 0         | 17.97   | 18.03   | 17.97   | 19.60   |
|           |            | 1       | 25        | 18.01   | 18.07   | 17.97   | 19.60   |
|           |            | 1       | 49        | 18.02   | 18.04   | 18.10   | 19.60   |
|           |            | 25      | 0         | 17.98   | 18.04   | 18.00   | 19.60   |
|           |            | 25      | 13        | 18.12   | 18.07   | 18.03   | 19.60   |
|           |            | 25      | 25        | 18.02   | 18.12   | 18.08   | 19.60   |
|           |            | 50      | 0         | 18.03   | 18.05   | 17.99   | 19.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.71   | 18.78   | 18.70   | 19.60   |
|           |            | 1       | 38        | 18.79   | 18.77   | 18.30   | 19.60   |



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|           |            | 1       | 74        | 18.80   | 18.62   | 18.62   | 19.60   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 18.22   | 18.11   | 18.10   | 19.60   |
|           |            | 36      | 18        | 18.17   | 18.25   | 18.17   | 19.60   |
|           |            | 36      | 39        | 18.27   | 18.04   | 18.17   | 19.60   |
|           |            | 75      | 0         | 18.16   | 18.12   | 18.18   | 19.60   |
|           | 16QAM      | 1       | 0         | 18.40   | 18.19   | 18.31   | 19.60   |
|           |            | 1       | 38        | 18.33   | 18.24   | 18.16   | 19.60   |
|           |            | 1       | 74        | 18.21   | 18.18   | 18.06   | 19.60   |
|           |            | 36      | 0         | 18.17   | 18.16   | 18.20   | 19.60   |
|           |            | 36      | 18        | 18.16   | 18.18   | 18.12   | 19.60   |
|           |            | 36      | 39        | 18.14   | 18.08   | 18.04   | 19.60   |
|           |            | 75      | 0         | 18.19   | 18.08   | 18.04   | 19.60   |
|           | 64QAM      | 1       | 0         | 17.96   | 18.09   | 17.95   | 19.60   |
|           |            | 1       | 38        | 18.04   | 18.07   | 18.00   | 19.60   |
|           |            | 1       | 74        | 17.95   | 17.99   | 18.02   | 19.60   |
|           |            | 36      | 0         | 18.01   | 18.08   | 18.03   | 19.60   |
|           |            | 36      | 18        | 18.05   | 18.10   | 18.04   | 19.60   |
|           |            | 36      | 39        | 18.04   | 18.01   | 18.06   | 19.60   |
|           |            | 75      | 0         | 17.99   | 18.08   | 17.95   | 19.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.61   | 18.72   | 18.67   | 19.60   |
|           |            | 1       | 50        | 18.73   | 18.87   | 18.39   | 19.60   |
|           |            | 1       | 99        | 18.58   | 18.25   | 18.55   | 19.60   |
|           |            | 50      | 0         | 18.27   | 18.09   | 18.29   | 19.60   |
|           |            | 50      | 25        | 18.29   | 18.18   | 18.18   | 19.60   |
|           |            | 50      | 50        | 18.32   | 18.09   | 18.09   | 19.60   |
|           |            | 100     | 0         | 18.24   | 18.14   | 18.20   | 19.60   |
|           | 16QAM      | 1       | 0         | 18.26   | 18.13   | 18.17   | 19.60   |
|           |            | 1       | 50        | 18.22   | 18.16   | 18.16   | 19.60   |
|           |            | 1       | 99        | 18.08   | 18.07   | 17.98   | 19.60   |
|           |            | 50      | 0         | 18.26   | 17.99   | 18.23   | 19.60   |
|           |            | 50      | 25        | 18.21   | 18.14   | 18.17   | 19.60   |
|           |            | 50      | 50        | 18.26   | 18.08   | 18.07   | 19.60   |
|           |            | 100     | 0         | 18.18   | 18.12   | 18.09   | 19.60   |
|           | 64QAM      | 1       | 0         | 18.06   | 18.05   | 18.11   | 19.60   |
|           |            | 1       | 50        | 18.01   | 18.06   | 18.07   | 19.60   |
|           |            | 1       | 99        | 18.00   | 18.04   | 17.96   | 19.60   |
|           |            | 50      | 0         | 18.11   | 18.10   | 18.08   | 19.60   |
|           |            | 50      | 25        | 17.97   | 17.95   | 17.96   | 19.60   |
|           |            | 50      | 50        | 17.99   | 17.99   | 18.06   | 19.60   |
|           |            | 100     | 0         | 18.08   | 18.08   | 17.97   | 19.60   |



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| LTE Band 4 Receiver on/Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                            | QPSK       | 1       | 0         | 16.28                | 16.64   | 16.30   | 17.60   |
|                                   |            | 1       | 2         | 16.31                | 16.64   | 16.24   | 17.60   |
|                                   |            | 1       | 5         | 16.29                | 16.25   | 16.62   | 17.60   |
|                                   |            | 3       | 0         | 16.13                | 16.07   | 16.01   | 17.60   |
|                                   |            | 3       | 2         | 16.02                | 15.97   | 16.02   | 17.60   |
|                                   |            | 3       | 3         | 16.05                | 16.07   | 15.93   | 17.60   |
|                                   |            | 6       | 0         | 16.13                | 16.34   | 16.09   | 17.60   |
|                                   | 16QAM      | 1       | 0         | 16.15                | 16.13   | 16.03   | 17.60   |
|                                   |            | 1       | 2         | 16.19                | 16.10   | 16.01   | 17.60   |
|                                   |            | 1       | 5         | 16.15                | 16.11   | 16.02   | 17.60   |
|                                   |            | 3       | 0         | 16.09                | 16.11   | 16.03   | 17.60   |
|                                   |            | 3       | 2         | 16.14                | 16.11   | 16.01   | 17.60   |
|                                   |            | 3       | 3         | 16.10                | 16.09   | 16.05   | 17.60   |
|                                   |            | 6       | 0         | 16.10                | 16.11   | 16.07   | 17.60   |
|                                   | 64QAM      | 1       | 0         | 16.09                | 16.19   | 16.10   | 17.60   |
|                                   |            | 1       | 2         | 16.27                | 16.23   | 16.29   | 17.60   |
|                                   |            | 1       | 5         | 16.20                | 16.30   | 16.21   | 17.60   |
|                                   |            | 3       | 0         | 16.14                | 16.20   | 16.12   | 17.60   |
|                                   |            | 3       | 2         | 16.24                | 16.27   | 16.09   | 17.60   |
|                                   |            | 3       | 3         | 16.13                | 16.10   | 16.16   | 17.60   |
|                                   |            | 6       | 0         | 16.14                | 16.26   | 16.06   | 17.60   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                              | QPSK       | 1       | 0         | 16.65                | 16.72   | 16.67   | 17.60   |
|                                   |            | 1       | 7         | 16.69                | 16.62   | 16.65   | 17.60   |
|                                   |            | 1       | 14        | 16.65                | 16.60   | 16.62   | 17.60   |
|                                   |            | 8       | 0         | 16.15                | 16.11   | 16.07   | 17.60   |
|                                   |            | 8       | 4         | 16.15                | 16.11   | 16.05   | 17.60   |
|                                   |            | 8       | 7         | 16.14                | 16.10   | 16.13   | 17.60   |
|                                   |            | 15      | 0         | 16.18                | 16.11   | 16.08   | 17.60   |
|                                   | 16QAM      | 1       | 0         | 16.22                | 16.12   | 16.04   | 17.60   |
|                                   |            | 1       | 7         | 16.26                | 16.14   | 16.00   | 17.60   |
|                                   |            | 1       | 14        | 16.26                | 16.04   | 16.06   | 17.60   |
|                                   |            | 8       | 0         | 16.13                | 16.03   | 16.02   | 17.60   |
|                                   |            | 8       | 4         | 16.17                | 16.11   | 16.03   | 17.60   |
|                                   |            | 8       | 7         | 16.15                | 16.10   | 16.03   | 17.60   |
|                                   |            | 15      | 0         | 16.05                | 16.05   | 16.06   | 17.60   |
|                                   | 64QAM      | 1       | 0         | 16.22                | 16.10   | 16.06   | 17.60   |
|                                   |            | 1       | 7         | 16.07                | 16.29   | 16.30   | 17.60   |
|                                   |            | 1       | 14        | 16.29                | 16.32   | 16.30   | 17.60   |
|                                   |            | 8       | 0         | 16.10                | 16.27   | 16.07   | 17.60   |
|                                   |            | 8       | 4         | 16.11                | 16.18   | 16.28   | 17.60   |
|                                   |            | 8       | 7         | 16.15                | 16.30   | 16.26   | 17.60   |
|                                   |            | 15      | 0         | 16.07                | 16.20   | 16.09   | 17.60   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 16.30   | 16.33   | 16.30   | 17.60   |
|           |            | 1       | 13        | 16.27   | 16.25   | 16.29   | 17.60   |
|           |            | 1       | 24        | 16.27   | 16.28   | 16.24   | 17.60   |
|           |            | 12      | 0         | 16.20   | 16.20   | 16.12   | 17.60   |
|           |            | 12      | 6         | 16.22   | 16.18   | 16.16   | 17.60   |
|           |            | 12      | 13        | 16.04   | 16.17   | 16.10   | 17.60   |
|           |            | 25      | 0         | 16.14   | 16.24   | 16.21   | 17.60   |
|           | 16QAM      | 1       | 0         | 16.20   | 16.23   | 16.15   | 17.60   |
|           |            | 1       | 13        | 16.12   | 16.14   | 16.13   | 17.60   |
|           |            | 1       | 24        | 16.18   | 16.14   | 16.03   | 17.60   |
|           |            | 12      | 0         | 16.15   | 16.16   | 16.09   | 17.60   |
|           |            | 12      | 6         | 16.14   | 16.18   | 16.06   | 17.60   |
|           |            | 12      | 13        | 16.06   | 16.07   | 16.06   | 17.60   |
|           |            | 25      | 0         | 16.18   | 16.18   | 16.14   | 17.60   |
|           | 64QAM      | 1       | 0         | 16.29   | 16.17   | 16.05   | 17.60   |
|           |            | 1       | 13        | 16.29   | 16.32   | 16.25   | 17.60   |
|           |            | 1       | 24        | 16.11   | 16.29   | 16.23   | 17.60   |
|           |            | 12      | 0         | 16.23   | 16.15   | 16.23   | 17.60   |
|           |            | 12      | 6         | 16.14   | 16.07   | 16.20   | 17.60   |
|           |            | 12      | 13        | 16.21   | 16.25   | 16.31   | 17.60   |
|           |            | 25      | 0         | 16.23   | 16.30   | 16.29   | 17.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 16.07   | 16.35   | 16.33   | 17.60   |
|           |            | 1       | 25        | 16.09   | 16.33   | 16.08   | 17.60   |
|           |            | 1       | 49        | 16.17   | 16.24   | 16.24   | 17.60   |
|           |            | 25      | 0         | 16.28   | 16.06   | 16.09   | 17.60   |
|           |            | 25      | 13        | 16.21   | 16.12   | 16.13   | 17.60   |
|           |            | 25      | 25        | 16.26   | 16.15   | 16.15   | 17.60   |
|           |            | 50      | 0         | 16.16   | 16.21   | 16.06   | 17.60   |
|           | 16QAM      | 1       | 0         | 16.12   | 16.11   | 16.20   | 17.60   |
|           |            | 1       | 25        | 16.17   | 16.10   | 16.12   | 17.60   |
|           |            | 1       | 49        | 16.19   | 16.06   | 16.06   | 17.60   |
|           |            | 25      | 0         | 16.16   | 16.08   | 16.10   | 17.60   |
|           |            | 25      | 13        | 16.15   | 16.18   | 16.07   | 17.60   |
|           |            | 25      | 25        | 16.17   | 16.09   | 16.08   | 17.60   |
|           |            | 50      | 0         | 16.16   | 16.19   | 16.15   | 17.60   |
|           | 64QAM      | 1       | 0         | 16.25   | 16.22   | 16.16   | 17.60   |
|           |            | 1       | 25        | 16.15   | 16.23   | 16.19   | 17.60   |
|           |            | 1       | 49        | 16.05   | 16.32   | 16.26   | 17.60   |
|           |            | 25      | 0         | 16.28   | 16.28   | 16.23   | 17.60   |
|           |            | 25      | 13        | 16.23   | 16.30   | 16.13   | 17.60   |
|           |            | 25      | 25        | 16.06   | 16.09   | 16.06   | 17.60   |
|           |            | 50      | 0         | 16.07   | 16.17   | 16.31   | 17.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.18   | 16.14   | 16.11   | 17.60   |
|           |            | 1       | 38        | 16.10   | 16.13   | 16.19   | 17.60   |



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|           |            | 1       | 74        | 16.15        | 16.14        | 16.25        | 17.60   |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            | 36      | 0         | 16.22        | 16.07        | 16.15        | 17.60   |
|           |            | 36      | 18        | 16.18        | 16.13        | 16.08        | 17.60   |
|           |            | 36      | 39        | 16.11        | 16.11        | 16.09        | 17.60   |
|           |            | 75      | 0         | 16.05        | 16.04        | 16.04        | 17.60   |
|           | 16QAM      | 1       | 0         | 15.96        | 16.15        | 16.03        | 17.60   |
|           |            | 1       | 38        | 16.08        | 15.97        | 16.05        | 17.60   |
|           |            | 1       | 74        | 15.97        | 15.97        | 15.98        | 17.60   |
|           |            | 36      | 0         | 16.15        | 16.10        | 16.13        | 17.60   |
|           |            | 36      | 18        | 16.08        | 16.15        | 16.06        | 17.60   |
|           |            | 36      | 39        | 16.10        | 16.06        | 16.05        | 17.60   |
|           |            | 75      | 0         | 16.07        | 16.09        | 16.06        | 17.60   |
|           | 64QAM      | 1       | 0         | 16.12        | 16.21        | 16.10        | 17.60   |
|           |            | 1       | 38        | 16.27        | 16.11        | 16.10        | 17.60   |
|           |            | 1       | 74        | 16.32        | 16.10        | 16.28        | 17.60   |
|           |            | 36      | 0         | 16.32        | 16.08        | 16.15        | 17.60   |
|           |            | 36      | 18        | 16.21        | 16.09        | 16.05        | 17.60   |
|           |            | 36      | 39        | 16.24        | 16.11        | 16.13        | 17.60   |
|           |            | 75      | 0         | 16.08        | 16.24        | 16.16        | 17.60   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 20050        | 20175        | 20300        |         |
| 20MHz     | QPSK       | 1       | 0         | 16.18        | <b>16.45</b> | <b>16.31</b> | 17.60   |
|           |            | 1       | 50        | <b>16.32</b> | 16.22        | 16.19        | 17.60   |
|           |            | 1       | 99        | 16.15        | 16.19        | 16.18        | 17.60   |
|           |            | 50      | 0         | 16.36        | 16.49        | <b>16.43</b> | 17.60   |
|           |            | 50      | 25        | 16.27        | 16.27        | 16.23        | 17.60   |
|           |            | 50      | 50        | <b>16.44</b> | 16.18        | 16.13        | 17.60   |
|           |            | 100     | 0         | <b>16.37</b> | 16.24        | 16.16        | 17.60   |
|           | 16QAM      | 1       | 0         | 16.03        | 16.08        | 16.06        | 17.60   |
|           |            | 1       | 50        | 16.13        | 16.14        | 16.09        | 17.60   |
|           |            | 1       | 99        | 16.00        | 15.98        | 15.89        | 17.60   |
|           |            | 50      | 0         | 16.24        | 16.03        | 16.18        | 17.60   |
|           |            | 50      | 25        | 16.18        | 16.14        | 16.13        | 17.60   |
|           |            | 50      | 50        | 16.26        | 16.01        | 16.04        | 17.60   |
|           |            | 100     | 0         | 16.18        | 16.02        | 16.10        | 17.60   |
|           | 64QAM      | 1       | 0         | 16.17        | 16.11        | 16.23        | 17.60   |
|           |            | 1       | 50        | 16.30        | 16.10        | 16.05        | 17.60   |
|           |            | 1       | 99        | 16.14        | 16.27        | 16.30        | 17.60   |
|           |            | 50      | 0         | 16.20        | 16.08        | 16.22        | 17.60   |
|           |            | 50      | 25        | 16.14        | 16.10        | 16.24        | 17.60   |
|           |            | 50      | 50        | 16.05        | 16.19        | 16.11        | 17.60   |
|           |            | 100     | 0         | 16.23        | 16.21        | 16.13        | 17.60   |



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| LTE Band 5 Receiver off/Hotspot on/Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                      | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                                         | QPSK       | 1       | 0         | 23.40                | 23.19   | 23.23   | 25.00   |
|                                                |            | 1       | 2         | 23.38                | 23.32   | 23.51   | 25.00   |
|                                                |            | 1       | 5         | 23.32                | 23.40   | 23.36   | 25.00   |
|                                                |            | 3       | 0         | 23.44                | 23.36   | 23.40   | 25.00   |
|                                                |            | 3       | 2         | 23.43                | 23.36   | 23.31   | 25.00   |
|                                                |            | 3       | 3         | 23.46                | 23.40   | 23.43   | 25.00   |
|                                                |            | 6       | 0         | 22.38                | 22.39   | 22.37   | 24.00   |
|                                                | 16QAM      | 1       | 0         | 22.88                | 22.89   | 22.67   | 24.00   |
|                                                |            | 1       | 2         | 22.89                | 22.53   | 22.69   | 24.00   |
|                                                |            | 1       | 5         | 22.85                | 22.85   | 22.78   | 24.00   |
|                                                |            | 3       | 0         | 22.45                | 22.40   | 22.22   | 24.00   |
|                                                |            | 3       | 2         | 22.43                | 22.36   | 22.40   | 24.00   |
|                                                |            | 3       | 3         | 22.45                | 22.35   | 22.40   | 24.00   |
|                                                |            | 6       | 0         | 21.43                | 21.47   | 21.47   | 23.00   |
|                                                | 64QAM      | 1       | 0         | 21.15                | 21.15   | 21.14   | 23.00   |
|                                                |            | 1       | 2         | 21.31                | 21.24   | 21.32   | 23.00   |
|                                                |            | 1       | 5         | 21.20                | 21.22   | 21.27   | 23.00   |
|                                                |            | 3       | 0         | 21.24                | 21.13   | 21.26   | 23.00   |
|                                                |            | 3       | 2         | 21.29                | 21.26   | 21.30   | 23.00   |
|                                                |            | 3       | 3         | 21.23                | 21.31   | 21.30   | 23.00   |
|                                                |            | 6       | 0         | 20.10                | 20.14   | 20.09   | 22.00   |
| Bandwidth                                      | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                                           | QPSK       | 1       | 0         | 23.34                | 23.42   | 23.32   | 25.00   |
|                                                |            | 1       | 7         | 23.25                | 23.36   | 23.35   | 25.00   |
|                                                |            | 1       | 14        | 23.39                | 23.29   | 23.29   | 25.00   |
|                                                |            | 8       | 0         | 22.39                | 22.39   | 22.29   | 24.00   |
|                                                |            | 8       | 4         | 22.32                | 22.37   | 22.26   | 24.00   |
|                                                |            | 8       | 7         | 22.37                | 22.36   | 22.27   | 24.00   |
|                                                |            | 15      | 0         | 22.36                | 22.38   | 22.30   | 24.00   |
|                                                | 16QAM      | 1       | 0         | 22.42                | 22.40   | 22.66   | 24.00   |
|                                                |            | 1       | 7         | 22.88                | 22.54   | 22.26   | 24.00   |
|                                                |            | 1       | 14        | 22.46                | 22.65   | 22.81   | 24.00   |
|                                                |            | 8       | 0         | 21.40                | 21.47   | 21.50   | 23.00   |
|                                                |            | 8       | 4         | 21.43                | 21.39   | 21.40   | 23.00   |
|                                                |            | 8       | 7         | 21.39                | 21.48   | 21.39   | 23.00   |
|                                                |            | 15      | 0         | 21.35                | 21.32   | 21.36   | 23.00   |
|                                                | 64QAM      | 1       | 0         | 21.25                | 21.12   | 21.24   | 23.00   |
|                                                |            | 1       | 7         | 21.18                | 21.20   | 21.25   | 23.00   |
|                                                |            | 1       | 14        | 21.24                | 21.21   | 21.25   | 23.00   |
|                                                |            | 8       | 0         | 20.10                | 20.18   | 20.19   | 22.00   |
|                                                |            | 8       | 4         | 20.12                | 20.19   | 20.18   | 22.00   |
|                                                |            | 8       | 7         | 20.12                | 20.18   | 20.22   | 22.00   |
|                                                |            | 15      | 0         | 20.13                | 20.08   | 20.15   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.29   | 23.34   | 23.43   | 25.00   |
|           |            | 1       | 13        | 23.32   | 23.42   | 23.22   | 25.00   |
|           |            | 1       | 24        | 23.35   | 23.34   | 23.26   | 25.00   |
|           |            | 12      | 0         | 22.36   | 22.44   | 22.38   | 24.00   |
|           |            | 12      | 6         | 22.36   | 22.37   | 22.40   | 24.00   |
|           |            | 12      | 13        | 22.35   | 22.31   | 22.30   | 24.00   |
|           |            | 25      | 0         | 22.36   | 22.34   | 22.31   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.87   | 22.81   | 22.59   | 24.00   |
|           |            | 1       | 13        | 22.45   | 22.54   | 22.15   | 24.00   |
|           |            | 1       | 24        | 22.81   | 22.52   | 22.57   | 24.00   |
|           |            | 12      | 0         | 21.35   | 21.41   | 21.36   | 23.00   |
|           |            | 12      | 6         | 21.38   | 21.38   | 21.35   | 23.00   |
|           |            | 12      | 13        | 21.37   | 21.29   | 21.27   | 23.00   |
|           |            | 25      | 0         | 21.32   | 21.36   | 21.35   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.16   | 21.11   | 21.26   | 23.00   |
|           |            | 1       | 13        | 21.25   | 21.11   | 21.10   | 23.00   |
|           |            | 1       | 24        | 21.21   | 21.15   | 21.07   | 23.00   |
|           |            | 12      | 0         | 20.18   | 20.07   | 20.07   | 22.00   |
|           |            | 12      | 6         | 20.20   | 20.20   | 20.10   | 22.00   |
|           |            | 12      | 13        | 20.10   | 20.13   | 20.22   | 22.00   |
|           |            | 25      | 0         | 20.08   | 20.16   | 20.18   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20450   | 20525   | 20600   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.46   | 23.45   | 23.32   | 25.00   |
|           |            | 1       | 25        | 23.42   | 23.40   | 23.27   | 25.00   |
|           |            | 1       | 49        | 23.39   | 23.32   | 23.48   | 25.00   |
|           |            | 25      | 0         | 22.33   | 22.44   | 22.36   | 24.00   |
|           |            | 25      | 13        | 22.35   | 22.38   | 22.38   | 24.00   |
|           |            | 25      | 25        | 22.40   | 22.34   | 22.37   | 24.00   |
|           |            | 50      | 0         | 22.36   | 22.35   | 22.35   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.37   | 22.65   | 22.58   | 24.00   |
|           |            | 1       | 25        | 22.65   | 22.46   | 22.41   | 24.00   |
|           |            | 1       | 49        | 22.80   | 22.86   | 22.73   | 24.00   |
|           |            | 25      | 0         | 21.28   | 21.60   | 21.38   | 23.00   |
|           |            | 25      | 13        | 21.48   | 21.43   | 21.41   | 23.00   |
|           |            | 25      | 25        | 21.41   | 21.35   | 21.39   | 23.00   |
|           |            | 50      | 0         | 21.36   | 21.38   | 21.38   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.25   | 21.11   | 21.18   | 23.00   |
|           |            | 1       | 25        | 21.24   | 21.18   | 21.22   | 23.00   |
|           |            | 1       | 49        | 21.27   | 21.15   | 21.32   | 23.00   |
|           |            | 25      | 0         | 20.12   | 20.20   | 20.17   | 22.00   |
|           |            | 25      | 13        | 20.10   | 20.21   | 20.12   | 22.00   |
|           |            | 25      | 25        | 20.22   | 20.21   | 20.20   | 22.00   |
|           |            | 50      | 0         | 20.11   | 20.10   | 20.15   | 22.00   |



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| LTE Band 5 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                 | QPSK       | 1       | 0         | 20.84                | 20.91   | 20.80   | 22.00   |
|                        |            | 1       | 2         | 20.88                | 20.61   | 20.53   | 22.00   |
|                        |            | 1       | 5         | 20.85                | 20.87   | 20.54   | 22.00   |
|                        |            | 3       | 0         | 20.26                | 20.40   | 20.22   | 22.00   |
|                        |            | 3       | 2         | 20.34                | 20.27   | 20.24   | 22.00   |
|                        |            | 3       | 3         | 20.24                | 20.37   | 20.34   | 22.00   |
|                        |            | 6       | 0         | 20.35                | 20.47   | 20.35   | 22.00   |
|                        | 16QAM      | 1       | 0         | 20.29                | 20.41   | 20.37   | 22.00   |
|                        |            | 1       | 2         | 20.45                | 20.43   | 20.37   | 22.00   |
|                        |            | 1       | 5         | 20.31                | 20.47   | 20.29   | 22.00   |
|                        |            | 3       | 0         | 20.30                | 20.30   | 20.34   | 22.00   |
|                        |            | 3       | 2         | 20.37                | 20.39   | 20.30   | 22.00   |
|                        |            | 3       | 3         | 20.34                | 20.38   | 20.32   | 22.00   |
|                        |            | 6       | 0         | 20.37                | 20.37   | 20.30   | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.23                | 20.16   | 20.27   | 22.00   |
|                        |            | 1       | 2         | 20.27                | 20.26   | 20.26   | 22.00   |
|                        |            | 1       | 5         | 20.29                | 20.18   | 20.21   | 22.00   |
|                        |            | 3       | 0         | 20.21                | 20.24   | 20.23   | 22.00   |
|                        |            | 3       | 2         | 20.25                | 20.27   | 20.32   | 22.00   |
|                        |            | 3       | 3         | 20.16                | 20.25   | 20.28   | 22.00   |
|                        |            | 6       | 0         | 20.27                | 20.30   | 20.23   | 22.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                   | QPSK       | 1       | 0         | 20.88                | 20.88   | 20.86   | 22.00   |
|                        |            | 1       | 7         | 20.82                | 20.92   | 20.83   | 22.00   |
|                        |            | 1       | 14        | 20.86                | 20.88   | 20.82   | 22.00   |
|                        |            | 8       | 0         | 20.36                | 20.36   | 20.42   | 22.00   |
|                        |            | 8       | 4         | 20.35                | 20.45   | 20.39   | 22.00   |
|                        |            | 8       | 7         | 20.36                | 20.42   | 20.41   | 22.00   |
|                        |            | 15      | 0         | 20.36                | 20.42   | 20.37   | 22.00   |
|                        | 16QAM      | 1       | 0         | 20.30                | 20.38   | 20.38   | 22.00   |
|                        |            | 1       | 7         | 20.38                | 20.46   | 20.40   | 22.00   |
|                        |            | 1       | 14        | 20.34                | 20.43   | 20.28   | 22.00   |
|                        |            | 8       | 0         | 20.30                | 20.34   | 20.33   | 22.00   |
|                        |            | 8       | 4         | 20.30                | 20.35   | 20.38   | 22.00   |
|                        |            | 8       | 7         | 20.29                | 20.38   | 20.31   | 22.00   |
|                        |            | 15      | 0         | 20.32                | 20.38   | 20.37   | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.22                | 20.19   | 20.27   | 22.00   |
|                        |            | 1       | 7         | 20.15                | 20.31   | 20.32   | 22.00   |
|                        |            | 1       | 14        | 20.18                | 20.27   | 20.15   | 22.00   |
|                        |            | 8       | 0         | 20.24                | 20.16   | 20.32   | 22.00   |
|                        |            | 8       | 4         | 20.23                | 20.29   | 20.31   | 22.00   |
|                        |            | 8       | 7         | 20.19                | 20.27   | 20.32   | 22.00   |
|                        |            | 15      | 0         | 20.23                | 20.27   | 20.19   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            |         |           | 20425        | 20525        | 20625        |         |
| 5MHz      | QPSK       | 1       | 0         | 20.50        | 20.57        | 20.48        | 22.00   |
|           |            | 1       | 13        | 20.48        | 20.53        | 20.45        | 22.00   |
|           |            | 1       | 24        | 20.36        | 20.37        | 20.79        | 22.00   |
|           |            | 12      | 0         | 20.37        | 20.43        | 20.47        | 22.00   |
|           |            | 12      | 6         | 20.40        | 20.48        | 20.45        | 22.00   |
|           |            | 12      | 13        | 20.41        | 20.46        | 20.37        | 22.00   |
|           |            | 25      | 0         | 20.44        | 20.55        | 20.46        | 22.00   |
|           | 16QAM      | 1       | 0         | 20.37        | 20.49        | 20.43        | 22.00   |
|           |            | 1       | 13        | 20.38        | 20.46        | 20.40        | 22.00   |
|           |            | 1       | 24        | 20.43        | 20.44        | 20.42        | 22.00   |
|           |            | 12      | 0         | 20.31        | 20.41        | 20.42        | 22.00   |
|           |            | 12      | 6         | 20.32        | 20.39        | 20.37        | 22.00   |
|           |            | 12      | 13        | 20.41        | 20.44        | 20.38        | 22.00   |
|           |            | 25      | 0         | 20.28        | 20.42        | 20.33        | 22.00   |
|           | 64QAM      | 1       | 0         | 20.30        | 20.28        | 20.28        | 22.00   |
|           |            | 1       | 13        | 20.18        | 20.16        | 20.24        | 22.00   |
|           |            | 1       | 24        | 20.20        | 20.18        | 20.17        | 22.00   |
|           |            | 12      | 0         | 20.15        | 20.30        | 20.23        | 22.00   |
|           |            | 12      | 6         | 20.15        | 20.29        | 20.20        | 22.00   |
|           |            | 12      | 13        | 20.27        | 20.22        | 20.21        | 22.00   |
|           |            | 25      | 0         | 20.20        | 20.24        | 20.30        | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 20450        | 20525        | 20600        |         |
| 10MHz     | QPSK       | 1       | 0         | 20.26        | 20.24        | 20.34        | 22.00   |
|           |            | 1       | 25        | 20.28        | 20.36        | 20.48        | 22.00   |
|           |            | 1       | 49        | 20.46        | 20.33        | 20.25        | 22.00   |
|           |            | 25      | 0         | 20.32        | <b>20.47</b> | 20.40        | 22.00   |
|           |            | 25      | 13        | 20.36        | 20.40        | <b>20.44</b> | 22.00   |
|           |            | 25      | 25        | <b>20.36</b> | 20.42        | 20.37        | 22.00   |
|           |            | 50      | 0         | 20.41        | 20.40        | <b>20.46</b> | 22.00   |
|           | 16QAM      | 1       | 0         | 20.29        | 20.40        | 20.31        | 22.00   |
|           |            | 1       | 25        | 20.34        | 20.37        | 20.31        | 22.00   |
|           |            | 1       | 49        | 20.36        | 20.33        | 20.39        | 22.00   |
|           |            | 25      | 0         | 20.30        | 20.43        | 20.39        | 22.00   |
|           |            | 25      | 13        | 20.33        | 20.37        | 20.36        | 22.00   |
|           |            | 25      | 25        | 20.34        | 20.38        | 20.36        | 22.00   |
|           |            | 50      | 0         | 20.41        | 20.42        | 20.39        | 22.00   |
|           | 64QAM      | 1       | 0         | 20.29        | 20.32        | 20.18        | 22.00   |
|           |            | 1       | 25        | 20.24        | 20.26        | 20.19        | 22.00   |
|           |            | 1       | 49        | 20.21        | 20.27        | 20.31        | 22.00   |
|           |            | 25      | 0         | 20.21        | 20.21        | 20.25        | 22.00   |
|           |            | 25      | 13        | 20.15        | 20.30        | 20.21        | 22.00   |
|           |            | 25      | 25        | 20.18        | 20.31        | 20.32        | 22.00   |
|           |            | 50      | 0         | 20.18        | 20.21        | 20.18        | 22.00   |



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| LTE Band 7 Receiver off/Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                                | QPSK       | 1       | 0         | 17.34                | 17.36   | 17.43   | 18.80   |
|                                     |            | 1       | 13        | 17.38                | 17.36   | 17.47   | 18.80   |
|                                     |            | 1       | 24        | 17.34                | 17.41   | 17.45   | 18.80   |
|                                     |            | 12      | 0         | 17.32                | 17.45   | 17.66   | 18.80   |
|                                     |            | 12      | 6         | 17.39                | 17.43   | 17.56   | 18.80   |
|                                     |            | 12      | 13        | 17.39                | 17.37   | 17.44   | 18.80   |
|                                     |            | 25      | 0         | 17.38                | 17.35   | 17.49   | 18.80   |
|                                     | 16QAM      | 1       | 0         | 17.33                | 17.34   | 17.40   | 18.80   |
|                                     |            | 1       | 13        | 17.31                | 17.34   | 17.45   | 18.80   |
|                                     |            | 1       | 24        | 17.33                | 17.32   | 17.46   | 18.80   |
|                                     |            | 12      | 0         | 17.37                | 17.48   | 17.64   | 18.80   |
|                                     |            | 12      | 6         | 17.45                | 17.45   | 17.58   | 18.80   |
|                                     |            | 12      | 13        | 17.46                | 17.36   | 17.47   | 18.80   |
|                                     |            | 25      | 0         | 17.36                | 17.43   | 17.48   | 18.80   |
|                                     | 64QAM      | 1       | 0         | 17.45                | 17.27   | 17.38   | 18.80   |
|                                     |            | 1       | 13        | 17.50                | 17.33   | 17.44   | 18.80   |
|                                     |            | 1       | 24        | 17.30                | 17.28   | 17.43   | 18.80   |
|                                     |            | 12      | 0         | 17.34                | 17.48   | 17.42   | 18.80   |
|                                     |            | 12      | 6         | 17.42                | 17.28   | 17.33   | 18.80   |
|                                     |            | 12      | 13        | 17.30                | 17.47   | 17.34   | 18.80   |
|                                     |            | 25      | 0         | 17.27                | 17.35   | 17.43   | 18.80   |
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                               | QPSK       | 1       | 0         | 17.29                | 17.48   | 17.87   | 18.80   |
|                                     |            | 1       | 25        | 17.31                | 17.56   | 17.65   | 18.80   |
|                                     |            | 1       | 49        | 17.61                | 17.55   | 17.69   | 18.80   |
|                                     |            | 25      | 0         | 17.33                | 17.53   | 17.67   | 18.80   |
|                                     |            | 25      | 13        | 17.42                | 17.40   | 17.62   | 18.80   |
|                                     |            | 25      | 25        | 17.48                | 17.49   | 17.50   | 18.80   |
|                                     |            | 50      | 0         | 17.43                | 17.43   | 17.57   | 18.80   |
|                                     | 16QAM      | 1       | 0         | 17.32                | 17.40   | 17.45   | 18.80   |
|                                     |            | 1       | 25        | 17.34                | 17.36   | 17.53   | 18.80   |
|                                     |            | 1       | 49        | 17.44                | 17.42   | 17.48   | 18.80   |
|                                     |            | 25      | 0         | 17.34                | 17.44   | 17.61   | 18.80   |
|                                     |            | 25      | 13        | 17.40                | 17.42   | 17.53   | 18.80   |
|                                     |            | 25      | 25        | 17.50                | 17.42   | 17.45   | 18.80   |
|                                     |            | 50      | 0         | 17.45                | 17.43   | 17.62   | 18.80   |
|                                     | 64QAM      | 1       | 0         | 17.30                | 17.28   | 17.44   | 18.80   |
|                                     |            | 1       | 25        | 17.42                | 17.45   | 17.40   | 18.80   |
|                                     |            | 1       | 49        | 17.40                | 17.49   | 17.42   | 18.80   |
|                                     |            | 25      | 0         | 17.31                | 17.35   | 17.50   | 18.80   |
|                                     |            | 25      | 13        | 17.44                | 17.45   | 17.37   | 18.80   |
|                                     |            | 25      | 25        | 17.39                | 17.36   | 17.32   | 18.80   |
|                                     |            | 50      | 0         | 17.39                | 17.37   | 17.27   | 18.80   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.53   | 17.81   | 17.50   | 18.80   |
|           |            | 1       | 38        | 17.95   | 17.89   | 17.72   | 18.80   |
|           |            | 1       | 74        | 18.05   | 17.92   | 17.54   | 18.80   |
|           |            | 36      | 0         | 17.40   | 17.46   | 17.48   | 18.80   |
|           |            | 36      | 18        | 17.47   | 17.45   | 17.54   | 18.80   |
|           |            | 36      | 39        | 17.56   | 17.37   | 17.50   | 18.80   |
|           |            | 75      | 0         | 17.55   | 17.44   | 17.49   | 18.80   |
|           | 16QAM      | 1       | 0         | 17.25   | 17.33   | 17.27   | 18.80   |
|           |            | 1       | 38        | 17.40   | 17.47   | 17.43   | 18.80   |
|           |            | 1       | 74        | 17.57   | 17.44   | 17.50   | 18.80   |
|           |            | 36      | 0         | 17.38   | 17.47   | 17.48   | 18.80   |
|           |            | 36      | 18        | 17.47   | 17.43   | 17.56   | 18.80   |
|           |            | 36      | 39        | 17.55   | 17.45   | 17.50   | 18.80   |
|           |            | 75      | 0         | 17.52   | 17.50   | 17.49   | 18.80   |
|           | 64QAM      | 1       | 0         | 17.42   | 17.37   | 17.44   | 18.80   |
|           |            | 1       | 38        | 17.27   | 17.43   | 17.49   | 18.80   |
|           |            | 1       | 74        | 17.35   | 17.52   | 17.37   | 18.80   |
|           |            | 36      | 0         | 17.35   | 17.46   | 17.40   | 18.80   |
|           |            | 36      | 18        | 17.32   | 17.51   | 17.39   | 18.80   |
|           |            | 36      | 39        | 17.39   | 17.38   | 17.50   | 18.80   |
|           |            | 75      | 0         | 17.28   | 17.45   | 17.43   | 18.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.88   | 17.76   | 17.86   | 18.80   |
|           |            | 1       | 50        | 18.04   | 18.02   | 18.07   | 18.80   |
|           |            | 1       | 99        | 18.20   | 18.01   | 18.12   | 18.80   |
|           |            | 50      | 0         | 17.46   | 17.50   | 17.59   | 18.80   |
|           |            | 50      | 25        | 17.55   | 17.69   | 17.63   | 18.80   |
|           |            | 50      | 50        | 17.68   | 17.47   | 17.48   | 18.80   |
|           |            | 100     | 0         | 17.56   | 17.50   | 17.55   | 18.80   |
|           | 16QAM      | 1       | 0         | 17.40   | 17.39   | 17.42   | 18.80   |
|           |            | 1       | 50        | 17.55   | 17.53   | 17.65   | 18.80   |
|           |            | 1       | 99        | 17.52   | 17.53   | 17.66   | 18.80   |
|           |            | 50      | 0         | 17.45   | 17.54   | 17.54   | 18.80   |
|           |            | 50      | 25        | 17.67   | 17.57   | 17.62   | 18.80   |
|           |            | 50      | 50        | 17.66   | 17.45   | 17.47   | 18.80   |
|           |            | 100     | 0         | 17.60   | 17.54   | 17.53   | 18.80   |
|           | 64QAM      | 1       | 0         | 17.47   | 17.41   | 17.34   | 18.80   |
|           |            | 1       | 50        | 17.36   | 17.52   | 17.31   | 18.80   |
|           |            | 1       | 99        | 17.44   | 17.50   | 17.30   | 18.80   |
|           |            | 50      | 0         | 17.36   | 17.28   | 17.36   | 18.80   |
|           |            | 50      | 25        | 17.32   | 17.34   | 17.41   | 18.80   |
|           |            | 50      | 50        | 17.43   | 17.46   | 17.45   | 18.80   |
|           |            | 100     | 0         | 17.39   | 17.42   | 17.35   | 18.80   |



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| LTE Band 7 Receiver on/Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                              | QPSK       | 1       | 0         | 16.47                | 16.50   | 16.39   | 17.80   |
|                                   |            | 1       | 13        | 16.47                | 16.37   | 16.41   | 17.80   |
|                                   |            | 1       | 24        | 16.57                | 16.54   | 16.62   | 17.80   |
|                                   |            | 12      | 0         | 16.43                | 16.55   | 16.65   | 17.80   |
|                                   |            | 12      | 6         | 16.45                | 16.51   | 16.59   | 17.80   |
|                                   |            | 12      | 13        | 16.44                | 16.39   | 16.52   | 17.80   |
|                                   |            | 25      | 0         | 16.51                | 16.47   | 16.61   | 17.80   |
|                                   | 16QAM      | 1       | 0         | 16.46                | 16.50   | 16.58   | 17.80   |
|                                   |            | 1       | 13        | 16.49                | 16.51   | 16.55   | 17.80   |
|                                   |            | 1       | 24        | 16.48                | 16.48   | 16.58   | 17.80   |
|                                   |            | 12      | 0         | 16.44                | 16.50   | 16.62   | 17.80   |
|                                   |            | 12      | 6         | 16.36                | 16.49   | 16.57   | 17.80   |
|                                   |            | 12      | 13        | 16.41                | 16.41   | 16.43   | 17.80   |
|                                   |            | 25      | 0         | 16.34                | 16.43   | 16.56   | 17.80   |
|                                   | 64QAM      | 1       | 0         | 16.48                | 16.18   | 16.30   | 17.80   |
|                                   |            | 1       | 13        | 16.29                | 16.06   | 16.37   | 17.80   |
|                                   |            | 1       | 24        | 16.05                | 16.07   | 16.48   | 17.80   |
|                                   |            | 12      | 0         | 16.06                | 16.37   | 16.31   | 17.80   |
|                                   |            | 12      | 6         | 16.34                | 16.27   | 16.07   | 17.80   |
|                                   |            | 12      | 13        | 16.15                | 16.27   | 16.23   | 17.80   |
|                                   |            | 25      | 0         | 16.32                | 16.42   | 16.48   | 17.80   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                             | QPSK       | 1       | 0         | 16.45                | 16.23   | 16.32   | 17.80   |
|                                   |            | 1       | 25        | 16.55                | 16.35   | 16.60   | 17.80   |
|                                   |            | 1       | 49        | 16.57                | 16.53   | 16.49   | 17.80   |
|                                   |            | 25      | 0         | 16.41                | 16.49   | 16.69   | 17.80   |
|                                   |            | 25      | 13        | 16.48                | 16.43   | 16.57   | 17.80   |
|                                   |            | 25      | 25        | 16.54                | 16.45   | 16.44   | 17.80   |
|                                   |            | 50      | 0         | 16.50                | 16.54   | 16.51   | 17.80   |
|                                   | 16QAM      | 1       | 0         | 16.30                | 16.36   | 16.43   | 17.80   |
|                                   |            | 1       | 25        | 16.38                | 16.43   | 16.54   | 17.80   |
|                                   |            | 1       | 49        | 16.47                | 16.46   | 16.50   | 17.80   |
|                                   |            | 25      | 0         | 16.39                | 16.43   | 16.58   | 17.80   |
|                                   |            | 25      | 13        | 16.44                | 16.44   | 16.56   | 17.80   |
|                                   |            | 25      | 25        | 16.49                | 16.43   | 16.44   | 17.80   |
|                                   |            | 50      | 0         | 16.49                | 16.46   | 16.52   | 17.80   |
|                                   | 64QAM      | 1       | 0         | 16.22                | 16.17   | 16.18   | 17.80   |
|                                   |            | 1       | 25        | 16.48                | 16.16   | 16.10   | 17.80   |
|                                   |            | 1       | 49        | 16.20                | 16.44   | 16.31   | 17.80   |
|                                   |            | 25      | 0         | 16.33                | 16.30   | 16.36   | 17.80   |
|                                   |            | 25      | 13        | 16.27                | 16.47   | 16.34   | 17.80   |
|                                   |            | 25      | 25        | 16.44                | 16.33   | 16.27   | 17.80   |
|                                   |            | 50      | 0         | 16.34                | 16.15   | 16.28   | 17.80   |



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| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|--------------|---------|---------|---------|
|           |            |         |           | 20825        | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.34        | 16.33   | 16.34   | 17.80   |
|           |            | 1       | 38        | 16.58        | 16.46   | 16.49   | 17.80   |
|           |            | 1       | 74        | 16.53        | 16.42   | 16.68   | 17.80   |
|           |            | 36      | 0         | 16.34        | 16.41   | 16.47   | 17.80   |
|           |            | 36      | 18        | 16.46        | 16.42   | 16.48   | 17.80   |
|           |            | 36      | 39        | 16.53        | 16.42   | 16.44   | 17.80   |
|           |            | 75      | 0         | 16.44        | 16.38   | 16.37   | 17.80   |
|           | 16QAM      | 1       | 0         | 16.32        | 16.29   | 16.32   | 17.80   |
|           |            | 1       | 38        | 16.48        | 16.35   | 16.49   | 17.80   |
|           |            | 1       | 74        | 16.57        | 16.38   | 16.50   | 17.80   |
|           |            | 36      | 0         | 16.31        | 16.37   | 16.45   | 17.80   |
|           |            | 36      | 18        | 16.45        | 16.37   | 16.51   | 17.80   |
|           |            | 36      | 39        | 16.57        | 16.38   | 16.43   | 17.80   |
|           |            | 75      | 0         | 16.49        | 16.41   | 16.52   | 17.80   |
|           | 64QAM      | 1       | 0         | 16.36        | 16.33   | 16.17   | 17.80   |
|           |            | 1       | 38        | 16.33        | 16.41   | 16.48   | 17.80   |
|           |            | 1       | 74        | 16.08        | 16.10   | 16.23   | 17.80   |
|           |            | 36      | 0         | 16.43        | 16.38   | 16.37   | 17.80   |
|           |            | 36      | 18        | 16.07        | 16.13   | 16.39   | 17.80   |
|           |            | 36      | 39        | 16.12        | 16.26   | 16.21   | 17.80   |
|           |            | 75      | 0         | 16.20        | 16.38   | 16.26   | 17.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel | Channel | Tune up |
|           |            |         |           | 20850        | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.15        | 16.26   | 16.30   | 17.80   |
|           |            | 1       | 50        | <b>16.58</b> | 16.41   | 16.39   | 17.80   |
|           |            | 1       | 99        | 16.30        | 16.41   | 16.45   | 17.80   |
|           |            | 50      | 0         | 16.43        | 16.42   | 16.49   | 17.80   |
|           |            | 50      | 25        | 16.54        | 16.53   | 16.53   | 17.80   |
|           |            | 50      | 50        | 16.61        | 16.31   | 16.31   | 17.80   |
|           |            | 100     | 0         | 16.44        | 16.37   | 16.41   | 17.80   |
|           | 16QAM      | 1       | 0         | 16.28        | 16.19   | 16.29   | 17.80   |
|           |            | 1       | 50        | 16.48        | 16.33   | 16.46   | 17.80   |
|           |            | 1       | 99        | 16.38        | 16.38   | 16.53   | 17.80   |
|           |            | 50      | 0         | 16.34        | 16.38   | 16.48   | 17.80   |
|           |            | 50      | 25        | 16.46        | 16.48   | 16.55   | 17.80   |
|           |            | 50      | 50        | 16.59        | 16.33   | 16.39   | 17.80   |
|           |            | 100     | 0         | 16.44        | 16.43   | 16.43   | 17.80   |
|           | 64QAM      | 1       | 0         | 16.25        | 16.28   | 16.32   | 17.80   |
|           |            | 1       | 50        | 16.18        | 16.40   | 16.32   | 17.80   |
|           |            | 1       | 99        | 16.46        | 16.26   | 16.37   | 17.80   |
|           |            | 50      | 0         | 16.09        | 16.18   | 16.15   | 17.80   |
|           |            | 50      | 25        | 16.31        | 16.24   | 16.34   | 17.80   |
|           |            | 50      | 50        | 16.33        | 16.29   | 16.14   | 17.80   |
|           |            | 100     | 0         | 16.13        | 16.30   | 16.21   | 17.80   |



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| LTE Band 12 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|             |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz      | QPSK       | 1       | 0         | 23.35                | 23.37   | 23.21   | 24.80   |
|             |            | 1       | 2         | 23.41                | 23.31   | 23.25   | 24.80   |
|             |            | 1       | 5         | 23.46                | 23.39   | 23.46   | 24.80   |
|             |            | 3       | 0         | 23.36                | 23.35   | 23.24   | 24.80   |
|             |            | 3       | 2         | 23.39                | 23.35   | 23.35   | 24.80   |
|             |            | 3       | 3         | 23.48                | 23.36   | 23.38   | 24.80   |
|             |            | 6       | 0         | 22.33                | 22.41   | 22.32   | 23.80   |
|             | 16QAM      | 1       | 0         | 22.45                | 22.63   | 22.51   | 23.80   |
|             |            | 1       | 2         | 22.52                | 22.41   | 22.20   | 23.80   |
|             |            | 1       | 5         | 22.81                | 22.60   | 22.79   | 23.80   |
|             |            | 3       | 0         | 22.39                | 22.43   | 22.39   | 23.80   |
|             |            | 3       | 2         | 22.42                | 22.43   | 22.29   | 23.80   |
|             |            | 3       | 3         | 22.39                | 22.38   | 22.35   | 23.80   |
|             |            | 6       | 0         | 21.56                | 21.41   | 21.46   | 22.80   |
|             | 64QAM      | 1       | 0         | 21.48                | 21.37   | 21.42   | 22.80   |
|             |            | 1       | 2         | 21.36                | 21.55   | 21.52   | 22.80   |
|             |            | 1       | 5         | 21.52                | 21.32   | 21.47   | 22.80   |
|             |            | 3       | 0         | 21.54                | 21.31   | 21.41   | 22.80   |
|             |            | 3       | 2         | 21.46                | 21.56   | 21.47   | 22.80   |
|             |            | 3       | 3         | 21.38                | 21.41   | 21.52   | 22.80   |
|             |            | 6       | 0         | 20.45                | 20.46   | 20.53   | 21.80   |
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|             |            |         |           | 23025                | 23095   | 23165   |         |
| 3MHz        | QPSK       | 1       | 0         | 23.23                | 23.36   | 23.24   | 24.80   |
|             |            | 1       | 7         | 23.26                | 23.38   | 23.27   | 24.80   |
|             |            | 1       | 14        | 23.43                | 23.32   | 23.27   | 24.80   |
|             |            | 8       | 0         | 22.31                | 22.29   | 22.29   | 23.80   |
|             |            | 8       | 4         | 22.33                | 22.30   | 22.27   | 23.80   |
|             |            | 8       | 7         | 22.34                | 22.24   | 22.23   | 23.80   |
|             |            | 15      | 0         | 22.31                | 22.26   | 22.32   | 23.80   |
|             | 16QAM      | 1       | 0         | 22.72                | 22.82   | 22.49   | 23.80   |
|             |            | 1       | 7         | 22.72                | 22.90   | 22.20   | 23.80   |
|             |            | 1       | 14        | 22.77                | 22.58   | 22.91   | 23.80   |
|             |            | 8       | 0         | 21.36                | 21.39   | 21.39   | 22.80   |
|             |            | 8       | 4         | 21.32                | 21.43   | 21.45   | 22.80   |
|             |            | 8       | 7         | 21.31                | 21.42   | 21.40   | 22.80   |
|             |            | 15      | 0         | 21.49                | 21.23   | 21.26   | 22.80   |
|             | 64QAM      | 1       | 0         | 21.52                | 21.48   | 21.39   | 22.80   |
|             |            | 1       | 7         | 21.34                | 21.39   | 21.37   | 22.80   |
|             |            | 1       | 14        | 21.55                | 21.44   | 21.47   | 22.80   |
|             |            | 8       | 0         | 20.52                | 20.38   | 20.31   | 21.80   |
|             |            | 8       | 4         | 20.44                | 20.43   | 20.35   | 21.80   |
|             |            | 8       | 7         | 20.48                | 20.42   | 20.50   | 21.80   |
|             |            | 15      | 0         | 20.47                | 20.40   | 20.49   | 21.80   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 23035   | 23095   | 23155   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.28   | 23.34   | 23.26   | 24.80   |
|           |            | 1       | 13        | 23.28   | 23.39   | 23.26   | 24.80   |
|           |            | 1       | 24        | 23.46   | 23.32   | 23.40   | 24.80   |
|           |            | 12      | 0         | 22.38   | 22.44   | 22.32   | 23.80   |
|           |            | 12      | 6         | 22.30   | 22.33   | 22.32   | 23.80   |
|           |            | 12      | 13        | 22.37   | 22.32   | 22.23   | 23.80   |
|           |            | 25      | 0         | 22.29   | 22.35   | 22.41   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.48   | 22.24   | 22.61   | 23.80   |
|           |            | 1       | 13        | 22.30   | 22.54   | 22.21   | 23.80   |
|           |            | 1       | 24        | 22.94   | 22.60   | 22.79   | 23.80   |
|           |            | 12      | 0         | 21.36   | 21.41   | 21.31   | 22.80   |
|           |            | 12      | 6         | 21.21   | 21.29   | 21.22   | 22.80   |
|           |            | 12      | 13        | 21.28   | 21.35   | 21.21   | 22.80   |
|           |            | 25      | 0         | 21.30   | 21.24   | 21.23   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.42   | 21.53   | 21.56   | 22.80   |
|           |            | 1       | 13        | 21.48   | 21.48   | 21.47   | 22.80   |
|           |            | 1       | 24        | 21.42   | 21.48   | 21.49   | 22.80   |
|           |            | 12      | 0         | 20.44   | 20.38   | 20.50   | 21.80   |
|           |            | 12      | 6         | 20.39   | 20.46   | 20.51   | 21.80   |
|           |            | 12      | 13        | 20.38   | 20.47   | 20.49   | 21.80   |
|           |            | 25      | 0         | 20.52   | 20.52   | 20.40   | 21.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23060   | 23095   | 23130   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.26   | 23.33   | 23.33   | 24.80   |
|           |            | 1       | 25        | 23.33   | 23.36   | 23.45   | 24.80   |
|           |            | 1       | 49        | 23.27   | 23.52   | 23.51   | 24.80   |
|           |            | 25      | 0         | 22.33   | 22.40   | 22.35   | 23.80   |
|           |            | 25      | 13        | 22.33   | 22.37   | 22.38   | 23.80   |
|           |            | 25      | 25        | 22.39   | 22.45   | 22.37   | 23.80   |
|           |            | 50      | 0         | 22.34   | 22.41   | 22.39   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.52   | 22.52   | 22.80   | 23.80   |
|           |            | 1       | 25        | 22.83   | 22.33   | 22.93   | 23.80   |
|           |            | 1       | 49        | 22.36   | 22.66   | 22.95   | 23.80   |
|           |            | 25      | 0         | 21.34   | 21.40   | 21.27   | 22.80   |
|           |            | 25      | 13        | 21.35   | 21.27   | 21.44   | 22.80   |
|           |            | 25      | 25        | 21.34   | 21.43   | 21.45   | 22.80   |
|           |            | 50      | 0         | 21.37   | 21.28   | 21.33   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.40   | 21.40   | 21.53   | 22.80   |
|           |            | 1       | 25        | 21.54   | 21.56   | 21.41   | 22.80   |
|           |            | 1       | 49        | 21.51   | 21.45   | 21.37   | 22.80   |
|           |            | 25      | 0         | 20.56   | 20.53   | 20.56   | 21.80   |
|           |            | 25      | 13        | 20.40   | 20.53   | 20.40   | 21.80   |
|           |            | 25      | 25        | 20.35   | 20.45   | 20.52   | 21.80   |
|           |            | 50      | 0         | 20.47   | 20.39   | 20.52   | 21.80   |



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| LTE Band 17 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|             |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz        | QPSK       | 1       | 0         | 22.90                | 22.97   | 23.02   | 24.80   |
|             |            | 1       | 13        | 22.93                | 23.01   | 22.98   | 24.80   |
|             |            | 1       | 24        | 23.02                | 22.98   | 22.93   | 24.80   |
|             |            | 12      | 0         | 22.05                | 22.00   | 22.02   | 23.80   |
|             |            | 12      | 6         | 22.01                | 21.99   | 21.98   | 23.80   |
|             |            | 12      | 13        | 22.04                | 22.02   | 21.92   | 23.80   |
|             |            | 25      | 0         | 22.09                | 22.02   | 21.96   | 23.80   |
|             | 16QAM      | 1       | 0         | 22.54                | 22.36   | 22.67   | 23.80   |
|             |            | 1       | 13        | 22.71                | 22.11   | 22.53   | 23.80   |
|             |            | 1       | 24        | 22.32                | 22.27   | 22.00   | 23.80   |
|             |            | 12      | 0         | 21.03                | 20.94   | 21.03   | 22.80   |
|             |            | 12      | 6         | 21.04                | 20.98   | 21.02   | 22.80   |
|             |            | 12      | 13        | 21.06                | 21.01   | 20.85   | 22.80   |
|             |            | 25      | 0         | 20.97                | 21.02   | 20.90   | 22.80   |
|             | 64QAM      | 1       | 0         | 21.18                | 21.01   | 21.22   | 22.80   |
|             |            | 1       | 13        | 21.17                | 21.25   | 21.27   | 22.80   |
|             |            | 1       | 24        | 21.13                | 21.12   | 21.16   | 22.80   |
|             |            | 12      | 0         | 20.22                | 20.18   | 20.21   | 21.80   |
|             |            | 12      | 6         | 20.12                | 20.11   | 20.09   | 21.80   |
|             |            | 12      | 13        | 20.07                | 20.04   | 20.22   | 21.80   |
|             |            | 25      | 0         | 20.07                | 20.22   | 20.08   | 21.80   |
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|             |            |         |           | 23780                | 23790   | 23800   |         |
| 10MHz       | QPSK       | 1       | 0         | 22.92                | 22.91   | 22.96   | 24.80   |
|             |            | 1       | 25        | 23.10                | 23.15   | 23.05   | 24.80   |
|             |            | 1       | 49        | 23.04                | 23.03   | 23.08   | 24.80   |
|             |            | 25      | 0         | 22.09                | 22.06   | 22.04   | 23.80   |
|             |            | 25      | 13        | 22.06                | 21.99   | 22.07   | 23.80   |
|             |            | 25      | 25        | 22.06                | 22.08   | 22.04   | 23.80   |
|             |            | 50      | 0         | 22.10                | 22.11   | 22.02   | 23.80   |
|             | 16QAM      | 1       | 0         | 22.54                | 22.62   | 22.56   | 23.80   |
|             |            | 1       | 25        | 22.34                | 22.63   | 22.26   | 23.80   |
|             |            | 1       | 49        | 22.70                | 22.27   | 22.82   | 23.80   |
|             |            | 25      | 0         | 21.06                | 20.95   | 20.96   | 22.80   |
|             |            | 25      | 13        | 21.08                | 20.97   | 21.01   | 22.80   |
|             |            | 25      | 25        | 21.11                | 21.14   | 20.94   | 22.80   |
|             |            | 50      | 0         | 21.11                | 21.04   | 21.01   | 22.80   |
|             | 64QAM      | 1       | 0         | 21.08                | 21.27   | 21.27   | 22.80   |
|             |            | 1       | 25        | 21.07                | 21.09   | 21.20   | 22.80   |
|             |            | 1       | 49        | 21.13                | 21.23   | 21.27   | 22.80   |
|             |            | 25      | 0         | 20.27                | 20.12   | 20.22   | 21.80   |
|             |            | 25      | 13        | 20.04                | 20.12   | 20.12   | 21.80   |
|             |            | 25      | 25        | 20.27                | 20.06   | 20.25   | 21.80   |
|             |            | 50      | 0         | 20.24                | 20.21   | 20.11   | 21.80   |



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| LTE Band 26 Receiver off/Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                      |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz                               | QPSK       | 1       | 0         | 23.24                | 23.26   | 23.34   | 25.00   |
|                                      |            | 1       | 2         | 23.38                | 23.44   | 23.20   | 25.00   |
|                                      |            | 1       | 5         | 23.30                | 23.16   | 23.33   | 25.00   |
|                                      |            | 3       | 0         | 23.34                | 23.31   | 23.28   | 25.00   |
|                                      |            | 3       | 2         | 23.29                | 23.31   | 23.34   | 25.00   |
|                                      |            | 3       | 3         | 23.38                | 23.29   | 23.27   | 25.00   |
|                                      |            | 6       | 0         | 22.31                | 22.36   | 22.31   | 24.00   |
|                                      | 16QAM      | 1       | 0         | 22.69                | 22.34   | 22.66   | 24.00   |
|                                      |            | 1       | 2         | 22.24                | 22.49   | 22.44   | 24.00   |
|                                      |            | 1       | 5         | 22.37                | 22.70   | 22.45   | 24.00   |
|                                      |            | 3       | 0         | 22.38                | 22.35   | 22.29   | 24.00   |
|                                      |            | 3       | 2         | 22.34                | 22.25   | 22.32   | 24.00   |
|                                      |            | 3       | 3         | 22.43                | 22.41   | 22.40   | 24.00   |
|                                      |            | 6       | 0         | 21.30                | 21.35   | 21.33   | 23.00   |
|                                      | 64QAM      | 1       | 0         | 21.39                | 21.38   | 21.23   | 23.00   |
|                                      |            | 1       | 2         | 21.38                | 21.30   | 21.41   | 23.00   |
|                                      |            | 1       | 5         | 21.25                | 21.42   | 21.36   | 23.00   |
|                                      |            | 3       | 0         | 21.29                | 21.30   | 21.41   | 23.00   |
|                                      |            | 3       | 2         | 21.21                | 21.37   | 21.44   | 23.00   |
|                                      |            | 3       | 3         | 21.36                | 21.40   | 21.40   | 23.00   |
|                                      |            | 6       | 0         | 20.38                | 20.21   | 20.44   | 22.00   |
| Bandwidth                            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                      |            |         |           | 26705                | 26865   | 27025   |         |
| 3MHz                                 | QPSK       | 1       | 0         | 23.23                | 23.34   | 23.31   | 25.00   |
|                                      |            | 1       | 7         | 23.28                | 23.35   | 23.22   | 25.00   |
|                                      |            | 1       | 14        | 23.31                | 23.35   | 23.31   | 25.00   |
|                                      |            | 8       | 0         | 22.29                | 22.23   | 22.32   | 24.00   |
|                                      |            | 8       | 4         | 22.26                | 22.23   | 22.27   | 24.00   |
|                                      |            | 8       | 7         | 22.30                | 22.27   | 22.31   | 24.00   |
|                                      |            | 15      | 0         | 22.29                | 22.31   | 22.29   | 24.00   |
|                                      | 16QAM      | 1       | 0         | 22.20                | 22.48   | 22.38   | 24.00   |
|                                      |            | 1       | 7         | 22.69                | 22.25   | 22.65   | 24.00   |
|                                      |            | 1       | 14        | 22.49                | 22.59   | 22.17   | 24.00   |
|                                      |            | 8       | 0         | 21.35                | 21.40   | 21.30   | 23.00   |
|                                      |            | 8       | 4         | 21.23                | 21.33   | 21.29   | 23.00   |
|                                      |            | 8       | 7         | 21.40                | 21.34   | 21.41   | 23.00   |
|                                      |            | 15      | 0         | 21.22                | 21.35   | 21.39   | 23.00   |
|                                      | 64QAM      | 1       | 0         | 21.42                | 21.32   | 21.34   | 23.00   |
|                                      |            | 1       | 7         | 21.43                | 21.32   | 21.44   | 23.00   |
|                                      |            | 1       | 14        | 21.29                | 21.31   | 21.47   | 23.00   |
|                                      |            | 8       | 0         | 20.23                | 20.34   | 20.44   | 22.00   |
|                                      |            | 8       | 4         | 20.40                | 20.36   | 20.43   | 22.00   |
|                                      |            | 8       | 7         | 20.41                | 20.25   | 20.45   | 22.00   |



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|           |            | 15      | 0         | 20.35   | 20.30   | 20.38   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26715   | 26865   | 27015   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.26   | 23.29   | 23.22   | 25.00   |
|           |            | 1       | 13        | 23.31   | 23.51   | 23.19   | 25.00   |
|           |            | 1       | 24        | 23.29   | 23.33   | 23.23   | 25.00   |
|           |            | 12      | 0         | 22.28   | 22.34   | 22.31   | 24.00   |
|           |            | 12      | 6         | 22.30   | 22.30   | 22.31   | 24.00   |
|           |            | 12      | 13        | 22.27   | 22.25   | 22.28   | 24.00   |
|           |            | 25      | 0         | 22.25   | 22.32   | 22.32   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.42   | 22.41   | 22.26   | 24.00   |
|           |            | 1       | 13        | 22.67   | 22.43   | 22.34   | 24.00   |
|           |            | 1       | 24        | 22.22   | 22.52   | 22.42   | 24.00   |
|           |            | 12      | 0         | 21.19   | 21.29   | 21.24   | 23.00   |
|           |            | 12      | 6         | 21.34   | 21.32   | 21.25   | 23.00   |
|           |            | 12      | 13        | 21.24   | 21.19   | 21.25   | 23.00   |
|           |            | 25      | 0         | 21.26   | 21.33   | 21.27   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.33   | 21.42   | 21.28   | 23.00   |
|           |            | 1       | 13        | 21.30   | 21.43   | 21.39   | 23.00   |
|           |            | 1       | 24        | 21.47   | 21.22   | 21.27   | 23.00   |
|           |            | 12      | 0         | 20.47   | 20.33   | 20.28   | 22.00   |
|           |            | 12      | 6         | 20.44   | 20.42   | 20.28   | 22.00   |
|           |            | 12      | 13        | 20.21   | 20.44   | 20.22   | 22.00   |
|           |            | 25      | 0         | 20.43   | 20.21   | 20.44   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26740   | 26865   | 26990   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.26   | 23.21   | 23.34   | 25.00   |
|           |            | 1       | 25        | 23.36   | 23.34   | 23.28   | 25.00   |
|           |            | 1       | 49        | 23.25   | 23.40   | 23.31   | 25.00   |
|           |            | 25      | 0         | 22.39   | 22.31   | 22.34   | 24.00   |
|           |            | 25      | 13        | 22.32   | 22.28   | 22.35   | 24.00   |
|           |            | 25      | 25        | 22.34   | 22.30   | 22.31   | 24.00   |
|           |            | 50      | 0         | 22.42   | 22.36   | 22.40   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.47   | 22.73   | 22.77   | 24.00   |
|           |            | 1       | 25        | 22.55   | 22.82   | 22.43   | 24.00   |
|           |            | 1       | 49        | 22.69   | 22.46   | 22.51   | 24.00   |
|           |            | 25      | 0         | 21.40   | 21.35   | 21.36   | 23.00   |
|           |            | 25      | 13        | 21.27   | 21.33   | 21.37   | 23.00   |
|           |            | 25      | 25        | 21.43   | 21.32   | 21.34   | 23.00   |
|           |            | 50      | 0         | 21.35   | 21.35   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.28   | 21.27   | 21.30   | 23.00   |
|           |            | 1       | 25        | 21.28   | 21.33   | 21.46   | 23.00   |
|           |            | 1       | 49        | 21.21   | 21.25   | 21.21   | 23.00   |
|           |            | 25      | 0         | 20.30   | 20.36   | 20.41   | 22.00   |
|           |            | 25      | 13        | 20.27   | 20.41   | 20.22   | 22.00   |
|           |            | 25      | 25        | 20.35   | 20.37   | 20.47   | 22.00   |
|           |            | 50      | 0         | 20.22   | 20.45   | 20.47   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26765   | 26865   | 26965   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.24   | 23.34   | 23.20   | 25.00   |



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|  |       |    |    |              |       |       |       |
|--|-------|----|----|--------------|-------|-------|-------|
|  |       | 1  | 38 | 23.47        | 23.36 | 23.52 | 25.00 |
|  |       | 1  | 74 | 23.56        | 23.59 | 23.29 | 25.00 |
|  |       | 36 | 0  | <b>22.48</b> | 22.37 | 22.38 | 24.00 |
|  |       | 36 | 18 | 22.39        | 22.39 | 22.45 | 24.00 |
|  |       | 36 | 39 | 22.42        | 22.42 | 22.47 | 24.00 |
|  |       | 75 | 0  | 22.47        | 22.44 | 22.44 | 24.00 |
|  | 16QAM | 1  | 0  | 22.72        | 22.81 | 22.74 | 24.00 |
|  |       | 1  | 38 | 22.66        | 22.36 | 22.39 | 24.00 |
|  |       | 1  | 74 | 22.98        | 22.66 | 22.81 | 24.00 |
|  |       | 36 | 0  | 21.40        | 21.39 | 21.37 | 23.00 |
|  |       | 36 | 18 | 21.39        | 21.43 | 21.45 | 23.00 |
|  |       | 36 | 39 | 21.45        | 21.39 | 21.49 | 23.00 |
|  | 64QAM | 75 | 0  | 21.42        | 21.39 | 21.47 | 23.00 |
|  |       | 1  | 0  | 21.27        | 21.26 | 21.25 | 23.00 |
|  |       | 1  | 38 | 21.24        | 21.44 | 21.44 | 23.00 |
|  |       | 1  | 74 | 21.27        | 21.32 | 21.32 | 23.00 |
|  |       | 36 | 0  | 20.35        | 20.34 | 20.45 | 22.00 |
|  |       | 36 | 18 | 20.36        | 20.24 | 20.27 | 22.00 |
|  |       | 36 | 39 | 20.46        | 20.21 | 20.36 | 22.00 |
|  |       | 75 | 0  | 20.44        | 20.22 | 20.43 | 22.00 |



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| LTE Band 26 Receiver on/Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                    |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz                             | QPSK       | 1       | 0         | 22.09                | 22.08   | 22.07   | 23.50   |
|                                    |            | 1       | 2         | 22.12                | 22.24   | 22.06   | 23.50   |
|                                    |            | 1       | 5         | 22.08                | 22.14   | 22.29   | 23.50   |
|                                    |            | 3       | 0         | 22.08                | 22.12   | 22.08   | 23.50   |
|                                    |            | 3       | 2         | 22.08                | 22.12   | 22.13   | 23.50   |
|                                    |            | 3       | 3         | 22.13                | 22.16   | 22.11   | 23.50   |
|                                    |            | 6       | 0         | 22.06                | 22.09   | 22.13   | 23.50   |
|                                    | 16QAM      | 1       | 0         | 22.20                | 22.22   | 22.13   | 23.50   |
|                                    |            | 1       | 2         | 22.03                | 22.24   | 22.01   | 23.50   |
|                                    |            | 1       | 5         | 22.19                | 22.00   | 22.26   | 23.50   |
|                                    |            | 3       | 0         | 22.17                | 22.04   | 22.06   | 23.50   |
|                                    |            | 3       | 2         | 22.13                | 22.15   | 21.83   | 23.50   |
|                                    |            | 3       | 3         | 22.06                | 22.17   | 22.04   | 23.50   |
|                                    |            | 6       | 0         | 21.30                | 21.35   | 21.33   | 23.00   |
|                                    | 64QAM      | 1       | 0         | 21.39                | 21.38   | 21.23   | 23.00   |
|                                    |            | 1       | 2         | 21.38                | 21.30   | 21.41   | 23.00   |
|                                    |            | 1       | 5         | 21.25                | 21.42   | 21.36   | 23.00   |
|                                    |            | 3       | 0         | 21.29                | 21.30   | 21.41   | 23.00   |
|                                    |            | 3       | 2         | 21.21                | 21.37   | 21.44   | 23.00   |
|                                    |            | 3       | 3         | 21.36                | 21.40   | 21.40   | 23.00   |
|                                    |            | 6       | 0         | 20.38                | 20.21   | 20.44   | 22.00   |
| Bandwidth                          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                    |            |         |           | 26705                | 26865   | 27025   |         |
| 3MHz                               | QPSK       | 1       | 0         | 22.46                | 22.53   | 22.44   | 23.50   |
|                                    |            | 1       | 7         | 22.48                | 22.51   | 22.49   | 23.50   |
|                                    |            | 1       | 14        | 22.47                | 22.41   | 22.51   | 23.50   |
|                                    |            | 8       | 0         | 22.44                | 22.47   | 22.42   | 23.50   |
|                                    |            | 8       | 4         | 22.43                | 22.47   | 22.46   | 23.50   |
|                                    |            | 8       | 7         | 22.43                | 22.50   | 22.35   | 23.50   |
|                                    |            | 15      | 0         | 22.42                | 22.47   | 22.48   | 23.50   |
|                                    | 16QAM      | 1       | 0         | 22.28                | 22.12   | 22.27   | 23.50   |
|                                    |            | 1       | 7         | 22.20                | 21.94   | 22.21   | 23.50   |
|                                    |            | 1       | 14        | 22.22                | 22.29   | 22.11   | 23.50   |
|                                    |            | 8       | 0         | 21.35                | 21.40   | 21.30   | 23.00   |
|                                    |            | 8       | 4         | 21.23                | 21.33   | 21.29   | 23.00   |
|                                    |            | 8       | 7         | 21.40                | 21.34   | 21.41   | 23.00   |
|                                    |            | 15      | 0         | 21.22                | 21.35   | 21.39   | 23.00   |
|                                    | 64QAM      | 1       | 0         | 21.42                | 21.32   | 21.34   | 23.00   |
|                                    |            | 1       | 7         | 21.43                | 21.32   | 21.44   | 23.00   |
|                                    |            | 1       | 14        | 21.29                | 21.31   | 21.47   | 23.00   |
|                                    |            | 8       | 0         | 20.23                | 20.34   | 20.44   | 22.00   |
|                                    |            | 8       | 4         | 20.40                | 20.36   | 20.43   | 22.00   |
|                                    |            | 8       | 7         | 20.41                | 20.25   | 20.45   | 22.00   |
|                                    |            | 15      | 0         | 20.35                | 20.30   | 20.38   | 22.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 26715   | 26865   | 27015   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.49   | 22.46   | 22.41   | 23.50   |
|           |            | 1       | 13        | 22.40   | 22.50   | 22.45   | 23.50   |
|           |            | 1       | 24        | 22.54   | 22.51   | 22.40   | 23.50   |
|           |            | 12      | 0         | 22.43   | 22.47   | 22.44   | 23.50   |
|           |            | 12      | 6         | 22.41   | 22.39   | 22.40   | 23.50   |
|           |            | 12      | 13        | 22.34   | 22.41   | 22.42   | 23.50   |
|           |            | 25      | 0         | 22.41   | 22.40   | 22.42   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.20   | 22.20   | 22.21   | 23.50   |
|           |            | 1       | 13        | 22.23   | 22.25   | 22.15   | 23.50   |
|           |            | 1       | 24        | 22.04   | 22.27   | 22.18   | 23.50   |
|           |            | 12      | 0         | 21.19   | 21.29   | 21.24   | 23.00   |
|           |            | 12      | 6         | 21.34   | 21.32   | 21.25   | 23.00   |
|           |            | 12      | 13        | 21.24   | 21.19   | 21.25   | 23.00   |
|           |            | 25      | 0         | 21.26   | 21.33   | 21.27   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.33   | 21.42   | 21.28   | 23.00   |
|           |            | 1       | 13        | 21.30   | 21.43   | 21.39   | 23.00   |
|           |            | 1       | 24        | 21.47   | 21.22   | 21.27   | 23.00   |
|           |            | 12      | 0         | 20.47   | 20.33   | 20.28   | 22.00   |
|           |            | 12      | 6         | 20.44   | 20.42   | 20.28   | 22.00   |
|           |            | 12      | 13        | 20.21   | 20.44   | 20.22   | 22.00   |
|           |            | 25      | 0         | 20.43   | 20.21   | 20.44   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26740   | 26865   | 26990   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.44   | 22.41   | 22.43   | 23.50   |
|           |            | 1       | 25        | 22.48   | 22.40   | 22.41   | 23.50   |
|           |            | 1       | 49        | 22.37   | 22.43   | 22.45   | 23.50   |
|           |            | 25      | 0         | 22.51   | 22.45   | 22.43   | 23.50   |
|           |            | 25      | 13        | 22.43   | 22.43   | 22.43   | 23.50   |
|           |            | 25      | 25        | 22.49   | 22.32   | 22.42   | 23.50   |
|           |            | 50      | 0         | 22.54   | 22.41   | 22.46   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.18   | 22.00   | 22.02   | 23.50   |
|           |            | 1       | 25        | 22.21   | 21.99   | 22.07   | 23.50   |
|           |            | 1       | 49        | 22.23   | 22.02   | 21.95   | 23.50   |
|           |            | 25      | 0         | 21.40   | 21.35   | 21.36   | 23.00   |
|           |            | 25      | 13        | 21.27   | 21.33   | 21.37   | 23.00   |
|           |            | 25      | 25        | 21.43   | 21.32   | 21.34   | 23.00   |
|           |            | 50      | 0         | 21.35   | 21.35   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.28   | 21.27   | 21.30   | 23.00   |
|           |            | 1       | 25        | 21.28   | 21.33   | 21.46   | 23.00   |
|           |            | 1       | 49        | 21.21   | 21.25   | 21.21   | 23.00   |
|           |            | 25      | 0         | 20.30   | 20.36   | 20.41   | 22.00   |
|           |            | 25      | 13        | 20.27   | 20.41   | 20.22   | 22.00   |
|           |            | 25      | 25        | 20.35   | 20.37   | 20.47   | 22.00   |
|           |            | 50      | 0         | 20.22   | 20.45   | 20.47   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26765   | 26865   | 26965   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.27   | 22.32   | 22.27   | 23.50   |
|           |            | 1       | 38        | 22.38   | 22.35   | 22.36   | 23.50   |



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|  |       |    |    |              |       |       |       |
|--|-------|----|----|--------------|-------|-------|-------|
|  |       | 1  | 74 | 22.31        | 22.66 | 22.34 | 23.50 |
|  |       | 36 | 0  | 22.42        | 22.32 | 22.43 | 23.50 |
|  |       | 36 | 18 | 22.37        | 22.41 | 22.37 | 23.50 |
|  |       | 36 | 39 | <b>22.56</b> | 22.35 | 22.40 | 23.50 |
|  |       | 75 | 0  | 22.48        | 22.42 | 22.46 | 23.50 |
|  | 16QAM | 1  | 0  | 21.99        | 22.01 | 22.09 | 23.50 |
|  |       | 1  | 38 | 22.07        | 22.03 | 22.26 | 23.50 |
|  |       | 1  | 74 | 22.09        | 22.19 | 22.11 | 23.50 |
|  |       | 36 | 0  | 21.40        | 21.39 | 21.37 | 23.00 |
|  |       | 36 | 18 | 21.39        | 21.43 | 21.45 | 23.00 |
|  |       | 36 | 39 | 21.45        | 21.39 | 21.49 | 23.00 |
|  |       | 75 | 0  | 21.42        | 21.39 | 21.47 | 23.00 |
|  | 64QAM | 1  | 0  | 21.27        | 21.26 | 21.25 | 23.00 |
|  |       | 1  | 38 | 21.24        | 21.44 | 21.44 | 23.00 |
|  |       | 1  | 74 | 21.27        | 21.32 | 21.32 | 23.00 |
|  |       | 36 | 0  | 20.35        | 20.34 | 20.45 | 22.00 |
|  |       | 36 | 18 | 20.36        | 20.24 | 20.27 | 22.00 |
|  |       | 36 | 39 | 20.46        | 20.21 | 20.36 | 22.00 |
|  |       | 75 | 0  | 20.44        | 20.22 | 20.43 | 22.00 |



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| LTE Band 38 Receiver off/Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                      |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                                 | QPSK       | 1       | 0         | 20.73                | 20.73   | 20.74   | 22.20   |
|                                      |            | 1       | 13        | 20.74                | 20.79   | 20.71   | 22.20   |
|                                      |            | 1       | 24        | 20.69                | 20.78   | 20.72   | 22.20   |
|                                      |            | 12      | 0         | 20.69                | 20.61   | 20.65   | 22.20   |
|                                      |            | 12      | 6         | 20.61                | 20.68   | 20.64   | 22.20   |
|                                      |            | 12      | 13        | 20.60                | 20.62   | 20.65   | 22.20   |
|                                      |            | 25      | 0         | 20.73                | 20.81   | 20.76   | 22.20   |
|                                      | 16QAM      | 1       | 0         | 20.68                | 20.63   | 20.67   | 22.20   |
|                                      |            | 1       | 13        | 20.68                | 20.76   | 20.63   | 22.20   |
|                                      |            | 1       | 24        | 20.69                | 20.72   | 20.71   | 22.20   |
|                                      |            | 12      | 0         | 20.69                | 20.70   | 20.71   | 22.20   |
|                                      |            | 12      | 6         | 20.67                | 20.70   | 20.62   | 22.20   |
|                                      |            | 12      | 13        | 20.71                | 20.75   | 20.69   | 22.20   |
|                                      |            | 25      | 0         | 20.74                | 20.66   | 20.75   | 22.20   |
|                                      | 64QAM      | 1       | 0         | 20.54                | 20.62   | 20.70   | 22.20   |
|                                      |            | 1       | 13        | 20.48                | 20.61   | 20.66   | 22.20   |
|                                      |            | 1       | 24        | 20.50                | 20.72   | 20.60   | 22.20   |
|                                      |            | 12      | 0         | 19.62                | 19.69   | 19.71   | 21.20   |
|                                      |            | 12      | 6         | 19.77                | 19.62   | 19.77   | 21.20   |
|                                      |            | 12      | 13        | 19.63                | 19.74   | 19.64   | 21.20   |
|                                      |            | 25      | 0         | 19.70                | 19.77   | 19.77   | 21.20   |
| Bandwidth                            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                      |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                                | QPSK       | 1       | 0         | 20.69                | 20.76   | 20.68   | 22.20   |
|                                      |            | 1       | 25        | 20.71                | 20.78   | 20.77   | 22.20   |
|                                      |            | 1       | 49        | 20.71                | 20.75   | 20.71   | 22.20   |
|                                      |            | 25      | 0         | 20.66                | 20.76   | 20.72   | 22.20   |
|                                      |            | 25      | 13        | 20.67                | 20.73   | 20.73   | 22.20   |
|                                      |            | 25      | 25        | 20.74                | 20.72   | 20.75   | 22.20   |
|                                      |            | 50      | 0         | 20.68                | 20.76   | 20.70   | 22.20   |
|                                      | 16QAM      | 1       | 0         | 20.66                | 20.72   | 20.61   | 22.20   |
|                                      |            | 1       | 25        | 20.71                | 20.73   | 20.69   | 22.20   |
|                                      |            | 1       | 49        | 20.69                | 20.71   | 20.65   | 22.20   |
|                                      |            | 25      | 0         | 20.71                | 20.66   | 20.70   | 22.20   |
|                                      |            | 25      | 13        | 20.63                | 20.67   | 20.66   | 22.20   |
|                                      |            | 25      | 25        | 20.68                | 20.73   | 20.72   | 22.20   |
|                                      |            | 50      | 0         | 20.69                | 20.65   | 20.74   | 22.20   |
|                                      | 64QAM      | 1       | 0         | 20.59                | 20.65   | 20.48   | 22.20   |
|                                      |            | 1       | 25        | 20.62                | 20.47   | 20.70   | 22.20   |
|                                      |            | 1       | 49        | 20.64                | 20.62   | 20.51   | 22.20   |
|                                      |            | 25      | 0         | 19.66                | 19.71   | 19.62   | 21.20   |
|                                      |            | 25      | 13        | 19.69                | 19.76   | 19.64   | 21.20   |
|                                      |            | 25      | 25        | 19.72                | 19.70   | 19.75   | 21.20   |
|                                      |            | 50      | 0         | 19.73                | 19.64   | 19.77   | 21.20   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel      | Channel | Tune up |
|-----------|------------|---------|-----------|---------|--------------|---------|---------|
|           |            |         |           | 37825   | 38000        | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.66   | 20.70        | 20.69   | 22.20   |
|           |            | 1       | 38        | 20.73   | 20.77        | 20.71   | 22.20   |
|           |            | 1       | 74        | 20.74   | 20.70        | 20.68   | 22.20   |
|           |            | 36      | 0         | 20.63   | 20.63        | 20.58   | 22.20   |
|           |            | 36      | 18        | 20.70   | 20.73        | 20.63   | 22.20   |
|           |            | 36      | 39        | 20.66   | 20.74        | 20.61   | 22.20   |
|           |            | 75      | 0         | 20.65   | 20.74        | 20.67   | 22.20   |
|           | 16QAM      | 1       | 0         | 20.66   | 20.64        | 20.61   | 22.20   |
|           |            | 1       | 38        | 20.69   | 20.75        | 20.64   | 22.20   |
|           |            | 1       | 74        | 20.71   | 20.69        | 20.63   | 22.20   |
|           |            | 36      | 0         | 20.65   | 20.66        | 20.60   | 22.20   |
|           |            | 36      | 18        | 20.64   | 20.73        | 20.61   | 22.20   |
|           |            | 36      | 39        | 20.68   | 20.72        | 20.64   | 22.20   |
|           |            | 75      | 0         | 20.65   | 20.74        | 20.62   | 22.20   |
|           | 64QAM      | 1       | 0         | 20.41   | 20.54        | 20.58   | 22.20   |
|           |            | 1       | 38        | 20.45   | 20.58        | 20.57   | 22.20   |
|           |            | 1       | 74        | 20.54   | 20.42        | 20.47   | 22.20   |
|           |            | 36      | 0         | 19.68   | 19.73        | 19.64   | 21.20   |
|           |            | 36      | 18        | 19.62   | 19.64        | 19.68   | 21.20   |
|           |            | 36      | 39        | 19.64   | 19.77        | 19.72   | 21.20   |
|           |            | 75      | 0         | 19.66   | 19.65        | 19.66   | 21.20   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel      | Channel | Tune up |
|           |            |         |           | 37850   | 38000        | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.65   | 20.65        | 20.66   | 22.20   |
|           |            | 1       | 50        | 20.73   | <b>20.76</b> | 20.68   | 22.20   |
|           |            | 1       | 99        | 20.65   | 20.69        | 20.63   | 22.20   |
|           |            | 50      | 0         | 20.63   | 20.77        | 20.74   | 22.20   |
|           |            | 50      | 25        | 20.74   | 20.70        | 20.73   | 22.20   |
|           |            | 50      | 50        | 20.76   | 20.70        | 20.68   | 22.20   |
|           |            | 100     | 0         | 20.75   | 20.73        | 20.69   | 22.20   |
|           | 16QAM      | 1       | 0         | 20.63   | 20.64        | 20.59   | 22.20   |
|           |            | 1       | 50        | 20.68   | 20.73        | 20.63   | 22.20   |
|           |            | 1       | 99        | 20.66   | 20.64        | 20.57   | 22.20   |
|           |            | 50      | 0         | 20.66   | 20.73        | 20.72   | 22.20   |
|           |            | 50      | 25        | 20.74   | 20.73        | 20.57   | 22.20   |
|           |            | 50      | 50        | 20.69   | 20.72        | 20.65   | 22.20   |
|           |            | 100     | 0         | 20.63   | 20.68        | 20.67   | 22.20   |
|           | 64QAM      | 1       | 0         | 20.72   | 20.61        | 20.70   | 22.20   |
|           |            | 1       | 50        | 20.53   | 20.67        | 20.59   | 22.20   |
|           |            | 1       | 99        | 20.65   | 20.70        | 20.56   | 22.20   |
|           |            | 50      | 0         | 19.73   | 19.76        | 19.71   | 21.20   |
|           |            | 50      | 25        | 19.75   | 19.75        | 19.69   | 21.20   |
|           |            | 50      | 50        | 19.62   | 19.75        | 19.63   | 21.20   |
|           |            | 100     | 0         | 19.66   | 19.72        | 19.66   | 21.20   |



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| LTE Band 38 Receiver on/Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                    |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                               | QPSK       | 1       | 0         | 18.72                | 18.73   | 18.77   | 20.20   |
|                                    |            | 1       | 13        | 18.73                | 18.76   | 18.74   | 20.20   |
|                                    |            | 1       | 24        | 18.71                | 18.80   | 18.74   | 20.20   |
|                                    |            | 12      | 0         | 18.70                | 18.65   | 18.66   | 20.20   |
|                                    |            | 12      | 6         | 18.66                | 18.66   | 18.64   | 20.20   |
|                                    |            | 12      | 13        | 18.62                | 18.72   | 18.65   | 20.20   |
|                                    |            | 25      | 0         | 18.69                | 18.78   | 18.76   | 20.20   |
|                                    | 16QAM      | 1       | 0         | 18.66                | 18.64   | 18.69   | 20.20   |
|                                    |            | 1       | 13        | 18.72                | 18.79   | 18.66   | 20.20   |
|                                    |            | 1       | 24        | 18.67                | 18.74   | 18.66   | 20.20   |
|                                    |            | 12      | 0         | 18.75                | 18.71   | 18.69   | 20.20   |
|                                    |            | 12      | 6         | 18.75                | 18.70   | 18.70   | 20.20   |
|                                    |            | 12      | 13        | 18.68                | 18.74   | 18.73   | 20.20   |
|                                    |            | 25      | 0         | 18.71                | 18.72   | 18.67   | 20.20   |
|                                    | 64QAM      | 1       | 0         | 18.49                | 18.59   | 18.58   | 20.20   |
|                                    |            | 1       | 13        | 18.46                | 18.41   | 18.39   | 20.20   |
|                                    |            | 1       | 24        | 18.40                | 18.35   | 18.42   | 20.20   |
|                                    |            | 12      | 0         | 18.53                | 18.41   | 18.35   | 20.20   |
|                                    |            | 12      | 6         | 18.65                | 18.57   | 18.46   | 20.20   |
|                                    |            | 12      | 13        | 18.35                | 18.47   | 18.41   | 20.20   |
|                                    |            | 25      | 0         | 18.46                | 18.65   | 18.55   | 20.20   |
| Bandwidth                          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                    |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                              | QPSK       | 1       | 0         | 18.73                | 18.78   | 18.67   | 20.20   |
|                                    |            | 1       | 25        | 18.70                | 18.71   | 18.74   | 20.20   |
|                                    |            | 1       | 49        | 18.74                | 18.70   | 18.70   | 20.20   |
|                                    |            | 25      | 0         | 18.73                | 18.77   | 18.75   | 20.20   |
|                                    |            | 25      | 13        | 18.70                | 18.75   | 18.72   | 20.20   |
|                                    |            | 25      | 25        | 18.71                | 18.73   | 18.88   | 20.20   |
|                                    |            | 50      | 0         | 18.72                | 18.69   | 18.67   | 20.20   |
|                                    | 16QAM      | 1       | 0         | 18.66                | 18.71   | 18.63   | 20.20   |
|                                    |            | 1       | 25        | 18.70                | 18.74   | 18.65   | 20.20   |
|                                    |            | 1       | 49        | 18.66                | 18.70   | 18.67   | 20.20   |
|                                    |            | 25      | 0         | 18.62                | 18.68   | 18.72   | 20.20   |
|                                    |            | 25      | 13        | 18.69                | 18.70   | 18.73   | 20.20   |
|                                    |            | 25      | 25        | 18.75                | 18.72   | 18.73   | 20.20   |
|                                    |            | 50      | 0         | 18.68                | 18.70   | 18.75   | 20.20   |
|                                    | 64QAM      | 1       | 0         | 18.54                | 18.36   | 18.52   | 20.20   |
|                                    |            | 1       | 25        | 18.46                | 18.48   | 18.38   | 20.20   |
|                                    |            | 1       | 49        | 18.64                | 18.58   | 18.61   | 20.20   |
|                                    |            | 25      | 0         | 18.46                | 18.51   | 18.53   | 20.20   |
|                                    |            | 25      | 13        | 18.44                | 18.37   | 18.56   | 20.20   |
|                                    |            | 25      | 25        | 18.45                | 18.50   | 18.63   | 20.20   |
|                                    |            | 50      | 0         | 18.50                | 18.52   | 18.64   | 20.20   |



| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.68   | 18.70   | 18.67   | 20.20   |
|           |            | 1       | 38        | 18.73   | 18.77   | 18.71   | 20.20   |
|           |            | 1       | 74        | 18.75   | 18.71   | 18.66   | 20.20   |
|           |            | 36      | 0         | 18.68   | 18.69   | 18.59   | 20.20   |
|           |            | 36      | 18        | 18.70   | 18.69   | 18.68   | 20.20   |
|           |            | 36      | 39        | 18.69   | 18.68   | 18.60   | 20.20   |
|           |            | 75      | 0         | 18.69   | 18.70   | 18.70   | 20.20   |
|           | 16QAM      | 1       | 0         | 18.66   | 18.65   | 18.67   | 20.20   |
|           |            | 1       | 38        | 18.69   | 18.74   | 18.68   | 20.20   |
|           |            | 1       | 74        | 18.71   | 18.68   | 18.63   | 20.20   |
|           |            | 36      | 0         | 18.66   | 18.68   | 18.61   | 20.20   |
|           |            | 36      | 18        | 18.64   | 18.71   | 18.67   | 20.20   |
|           |            | 36      | 39        | 18.63   | 18.67   | 18.64   | 20.20   |
|           |            | 75      | 0         | 18.73   | 18.71   | 18.64   | 20.20   |
|           | 64QAM      | 1       | 0         | 18.36   | 18.54   | 18.60   | 20.20   |
|           |            | 1       | 38        | 18.49   | 18.53   | 18.63   | 20.20   |
|           |            | 1       | 74        | 18.43   | 18.37   | 18.39   | 20.20   |
|           |            | 36      | 0         | 18.62   | 18.60   | 18.37   | 20.20   |
|           |            | 36      | 18        | 18.35   | 18.39   | 18.39   | 20.20   |
|           |            | 36      | 39        | 18.35   | 18.53   | 18.36   | 20.20   |
|           |            | 75      | 0         | 18.63   | 18.37   | 18.44   | 20.20   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.65   | 18.67   | 18.60   | 20.20   |
|           |            | 1       | 50        | 18.72   | 18.76   | 18.69   | 20.20   |
|           |            | 1       | 99        | 18.68   | 18.66   | 18.63   | 20.20   |
|           |            | 50      | 0         | 18.71   | 18.80   | 18.76   | 20.20   |
|           |            | 50      | 25        | 18.74   | 18.71   | 18.73   | 20.20   |
|           |            | 50      | 50        | 18.76   | 18.70   | 18.74   | 20.20   |
|           |            | 100     | 0         | 18.68   | 18.66   | 18.69   | 20.20   |
|           | 16QAM      | 1       | 0         | 18.62   | 18.62   | 18.59   | 20.20   |
|           |            | 1       | 50        | 18.70   | 18.70   | 18.64   | 20.20   |
|           |            | 1       | 99        | 18.64   | 18.65   | 18.62   | 20.20   |
|           |            | 50      | 0         | 18.63   | 18.68   | 18.77   | 20.20   |
|           |            | 50      | 25        | 18.74   | 18.76   | 18.74   | 20.20   |
|           |            | 50      | 50        | 18.68   | 18.70   | 18.64   | 20.20   |
|           |            | 100     | 0         | 18.68   | 18.70   | 18.62   | 20.20   |
|           | 64QAM      | 1       | 0         | 18.51   | 18.37   | 18.35   | 20.20   |
|           |            | 1       | 50        | 18.44   | 18.50   | 18.58   | 20.20   |
|           |            | 1       | 99        | 18.56   | 18.65   | 18.57   | 20.20   |
|           |            | 50      | 0         | 18.49   | 18.36   | 18.56   | 20.20   |
|           |            | 50      | 25        | 18.44   | 18.37   | 18.61   | 20.20   |
|           |            | 50      | 50        | 18.41   | 18.50   | 18.38   | 20.20   |
|           |            | 100     | 0         | 18.49   | 18.50   | 18.43   | 20.20   |

Table 6 : Conducted Power of LTE



## 2 Conducted Power of WiFi and BT

### 2.1.1 Conducted Power of WiFi

| WiFi 2.4G Receiver off |         |                |                 |         |                     |          |
|------------------------|---------|----------------|-----------------|---------|---------------------|----------|
| Mode                   | Channel | Frequency(MHz) | Data Rate(Mbps) | tune up | Average Power (dBm) | SAR Test |
| 802.11b                | 1       | 2412           | 1               | 20.00   | 18.75               | No       |
|                        | 6       | 2437           |                 | 20.00   | <b>19.03</b>        | Yes      |
|                        | 11      | 2462           |                 | 20.00   | 18.77               | No       |
| 802.11g                | 1       | 2412           | 6               | 16.00   | 14.94               | No       |
|                        | 6       | 2437           |                 | 16.00   | 15.12               | No       |
|                        | 11      | 2462           |                 | 16.00   | 14.89               | No       |
| 802.11n<br>HT20 SISO   | 1       | 2412           | MCS0            | 14.00   | 12.79               | No       |
|                        | 6       | 2437           |                 | 14.00   | 13.03               | No       |
|                        | 11      | 2462           |                 | 14.00   | 12.82               | No       |
| 802.11n<br>HT40 SISO   | 3       | 2422           | MCS0            | 12.00   | 11.09               | No       |
|                        | 6       | 2437           |                 | 12.00   | 11.18               | No       |
|                        | 9       | 2452           |                 | 12.00   | 11.12               | No       |

| WiFi 2.4G Receiver on |         |                |                 |         |                     |          |
|-----------------------|---------|----------------|-----------------|---------|---------------------|----------|
| Mode                  | Channel | Frequency(MHz) | Data Rate(Mbps) | tune up | Average Power (dBm) | SAR Test |
| 802.11b               | 1       | 2412           | 1               | 18.00   | <b>16.96</b>        | Yes      |
|                       | 6       | 2437           |                 | 18.00   | <b>17.12</b>        | Yes      |
|                       | 11      | 2462           |                 | 18.00   | <b>16.87</b>        | Yes      |
| 802.11g               | 1       | 2412           | 6               | 16.00   | 14.94               | No       |
|                       | 6       | 2437           |                 | 16.00   | 15.12               | No       |
|                       | 11      | 2462           |                 | 16.00   | 14.89               | No       |
| 802.11n<br>HT20 SISO  | 1       | 2412           | MCS0            | 14.00   | 12.79               | No       |
|                       | 6       | 2437           |                 | 14.00   | 13.03               | No       |
|                       | 11      | 2462           |                 | 14.00   | 12.82               | No       |
| 802.11n<br>HT40 SISO  | 3       | 2422           | MCS0            | 12.00   | 11.09               | No       |
|                       | 6       | 2437           |                 | 12.00   | 11.18               | No       |
|                       | 9       | 2452           |                 | 12.00   | 11.12               | No       |



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| WiFi 5G Receiver off/Hotspot off |          |         |                |         |                     |          |
|----------------------------------|----------|---------|----------------|---------|---------------------|----------|
| 5GHz                             | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11a                          | U-NII-1  | 36      | 5180           | 18.00   | 17.63               | No       |
|                                  |          | 40      | 5200           | 18.00   | 17.60               | No       |
|                                  |          | 44      | 5220           | 18.00   | 17.79               | No       |
|                                  |          | 48      | 5240           | 18.00   | <b>17.83</b>        | Yes      |
|                                  | U-NII-2A | 52      | 5260           | 16.80   | <b>16.77</b>        | Yes      |
|                                  |          | 56      | 5280           | 16.80   | 16.75               | No       |
|                                  |          | 60      | 5300           | 16.80   | 16.71               | No       |
|                                  |          | 64      | 5320           | 16.80   | 16.75               | No       |
|                                  | U-NII-2C | 100     | 5500           | 14.00   | 13.39               | No       |
|                                  |          | 104     | 5520           | 14.00   | 13.34               | No       |
|                                  |          | 108     | 5540           | 14.00   | 13.36               | No       |
|                                  |          | 112     | 5560           | 14.00   | 13.40               | No       |
|                                  |          | 116     | 5580           | 14.00   | 13.43               | No       |
|                                  |          | 120     | 5600           | 14.00   | 13.60               | No       |
|                                  |          | 124     | 5620           | 14.00   | 13.52               | No       |
|                                  |          | 128     | 5640           | 14.00   | 13.61               | No       |
|                                  |          | 132     | 5660           | 14.00   | 13.61               | No       |
|                                  |          | 136     | 5680           | 14.00   | 13.58               | No       |
|                                  | U-NII-3  | 140     | 5700           | 14.00   | 13.62               | No       |
|                                  |          | 149     | 5745           | 19.00   | 18.29               | No       |
|                                  |          | 153     | 5765           | 19.00   | 18.29               | No       |
|                                  |          | 157     | 5785           | 19.00   | <b>18.35</b>        | Yes      |
|                                  |          | 161     | 5805           | 19.00   | 18.30               | No       |
|                                  |          | 165     | 5825           | 19.00   | 18.30               | No       |
| 5GHz                             | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT20                 | U-NII-1  | 36      | 5180           | 17.00   | 16.48               | No       |
|                                  |          | 40      | 5200           | 17.00   | 16.50               | No       |
|                                  |          | 44      | 5220           | 17.00   | 16.57               | No       |
|                                  |          | 48      | 5240           | 17.00   | 16.61               | No       |
|                                  | U-NII-2A | 52      | 5260           | 16.80   | 16.55               | No       |
|                                  |          | 56      | 5280           | 16.80   | 16.61               | No       |
|                                  |          | 60      | 5300           | 16.80   | 16.69               | No       |
|                                  |          | 64      | 5320           | 16.80   | 16.55               | No       |
|                                  | U-NII-2C | 100     | 5500           | 14.00   | 13.25               | No       |
|                                  |          | 104     | 5520           | 14.00   | 13.22               | No       |
|                                  |          | 108     | 5540           | 14.00   | 13.27               | No       |
|                                  |          | 112     | 5560           | 14.00   | 13.31               | No       |
|                                  |          | 116     | 5580           | 14.00   | 13.35               | No       |
|                                  |          | 120     | 5600           | 14.00   | 13.44               | No       |
|                                  |          | 124     | 5620           | 14.00   | 13.45               | No       |
|                                  |          | 128     | 5640           | 14.00   | 13.42               | No       |
|                                  |          | 132     | 5660           | 14.00   | 13.46               | No       |
|                                  |          | 136     | 5680           | 14.00   | 13.48               | No       |
|                                  | U-NII-3  | 140     | 5700           | 14.00   | 13.55               | No       |
|                                  |          | 149     | 5745           | 19.00   | 18.18               | No       |
|                                  |          | 153     | 5765           | 19.00   | 18.13               | No       |



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|--------------|----------|---------|----------------|---------|---------------------|----------|
|              |          | 157     | 5785           | 19.00   | 18.18               | No       |
|              |          | 161     | 5805           | 19.00   | 17.70               | No       |
|              |          | 165     | 5825           | 19.00   | 18.19               | No       |
| 5GHz         | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1  | 38      | 5190           | 16.00   | 15.46               | No       |
|              |          | 46      | 5230           | 16.00   | 15.50               | No       |
|              | U-NII-2A | 54      | 5270           | 15.00   | 14.68               | No       |
|              |          | 62      | 5310           | 15.00   | 14.72               | No       |
|              | U-NII-2C | 102     | 5510           | 15.00   | 14.37               | No       |
|              |          | 110     | 5550           | 15.00   | 14.41               | No       |
|              |          | 118     | 5590           | 15.00   | 14.50               | No       |
|              |          | 126     | 5630           | 15.00   | 14.45               | No       |
|              |          | 134     | 5670           | 15.00   | 14.58               | Yes      |
|              | U-NII-3  | 151     | 5755           | 17.00   | 16.13               | No       |
|              |          | 159     | 5795           | 17.00   | 16.11               | No       |
| 5GHz         | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1  | 36      | 5180           | 17.00   | 16.51               | No       |
|              |          | 40      | 5200           | 17.00   | 16.48               | No       |
|              |          | 44      | 5220           | 17.00   | 16.53               | No       |
|              |          | 48      | 5240           | 17.00   | 16.63               | No       |
|              | U-NII-2A | 52      | 5260           | 16.80   | 16.59               | No       |
|              |          | 56      | 5280           | 16.80   | 16.76               | No       |
|              |          | 60      | 5300           | 16.80   | 16.31               | No       |
|              |          | 64      | 5320           | 16.80   | 16.59               | No       |
|              | U-NII-2C | 100     | 5500           | 14.00   | 13.24               | No       |
|              |          | 104     | 5520           | 14.00   | 13.24               | No       |
|              |          | 108     | 5540           | 14.00   | 13.32               | No       |
|              |          | 112     | 5560           | 14.00   | 13.30               | No       |
|              |          | 116     | 5580           | 14.00   | 13.37               | No       |
|              |          | 120     | 5600           | 14.00   | 13.47               | No       |
|              |          | 124     | 5620           | 14.00   | 13.46               | No       |
|              |          | 128     | 5640           | 14.00   | 13.50               | No       |
|              |          | 132     | 5660           | 14.00   | 13.45               | No       |
|              |          | 136     | 5680           | 14.00   | 13.00               | No       |
|              |          | 140     | 5700           | 14.00   | 13.51               | No       |
|              | U-NII-3  | 149     | 5745           | 18.00   | 16.66               | No       |
|              |          | 153     | 5765           | 18.00   | 16.72               | No       |
|              |          | 157     | 5785           | 18.00   | 17.26               | No       |
|              |          | 161     | 5805           | 18.00   | 17.20               | No       |
|              |          | 165     | 5825           | 18.00   | 16.75               | No       |
| 5GHz         | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac 40M | U-NII-1  | 38      | 5190           | 16.00   | 15.50               | No       |
|              |          | 46      | 5230           | 16.00   | 15.48               | No       |
|              | U-NII-2A | 54      | 5270           | 15.00   | 14.59               | No       |
|              |          | 62      | 5310           | 15.00   | 14.70               | No       |
|              | U-NII-2C | 102     | 5510           | 15.00   | 14.39               | No       |
|              |          | 110     | 5550           | 15.00   | 14.41               | No       |



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|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 | U-NII-3  | 118     | 5590           | 15.00   | 14.54               | No       |
|                 |          | 126     | 5630           | 15.00   | 14.54               | No       |
|                 |          | 134     | 5670           | 15.00   | 14.59               | No       |
|                 |          | 151     | 5755           | 17.00   | 16.17               | No       |
|                 |          | 159     | 5795           | 17.00   | 16.20               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | 15.00   | 14.15               | No       |
|                 | U-NII-2A | 58      | 5290           | 15.00   | 14.31               | No       |
|                 | U-NII-2C | 106     | 5530           | 14.00   | 12.94               | No       |
|                 |          | 122     | 5610           | 14.00   | 13.10               | No       |
|                 | U-NII-3  | 155     | 5775           | 15.00   | 14.31               | No       |

| WiFi 5G Receiver on |          |         |                |         |                     |          |
|---------------------|----------|---------|----------------|---------|---------------------|----------|
| 5GHz                | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11a             | U-NII-1  | 36      | 5180           | 17.00   | <b>16.87</b>        | Yes      |
|                     |          | 40      | 5200           | 17.00   | 16.67               | No       |
|                     |          | 44      | 5220           | 17.00   | <b>16.86</b>        | Yes      |
|                     |          | 48      | 5240           | 17.00   | <b>16.91</b>        | Yes      |
|                     | U-NII-2A | 52      | 5260           | 16.80   | 16.77               | No       |
|                     |          | 56      | 5280           | 16.80   | 16.75               | No       |
|                     |          | 60      | 5300           | 16.80   | 16.71               | No       |
|                     |          | 64      | 5320           | 16.80   | 16.75               | No       |
|                     | U-NII-2C | 100     | 5500           | 14.00   | 13.39               | No       |
|                     |          | 104     | 5520           | 14.00   | 13.34               | No       |
|                     |          | 108     | 5540           | 14.00   | 13.36               | No       |
|                     |          | 112     | 5560           | 14.00   | 13.40               | No       |
|                     |          | 116     | 5580           | 14.00   | 13.43               | No       |
|                     |          | 120     | 5600           | 14.00   | 13.60               | No       |
|                     |          | 124     | 5620           | 14.00   | 13.52               | No       |
|                     |          | 128     | 5640           | 14.00   | 13.61               | No       |
|                     |          | 132     | 5660           | 14.00   | 13.61               | No       |
|                     |          | 136     | 5680           | 14.00   | 13.58               | No       |
|                     |          | 140     | 5700           | 14.00   | 13.62               | No       |
|                     | U-NII-3  | 149     | 5745           | 19.00   | 18.29               | No       |
|                     |          | 153     | 5765           | 19.00   | 18.29               | No       |
|                     |          | 157     | 5785           | 19.00   | <b>18.56</b>        | Yes      |
|                     |          | 161     | 5805           | 19.00   | 18.30               | No       |
|                     |          | 165     | 5825           | 19.00   | 18.30               | No       |
| 5GHz                | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT20    | U-NII-1  | 36      | 5180           | 17.00   | 16.48               | No       |
|                     |          | 40      | 5200           | 17.00   | 16.50               | No       |
|                     |          | 44      | 5220           | 17.00   | 16.57               | No       |
|                     |          | 48      | 5240           | 17.00   | 16.61               | No       |
|                     | U-NII-2A | 52      | 5260           | 16.80   | 16.55               | No       |
|                     |          | 56      | 5280           | 16.80   | 16.61               | No       |
|                     |          | 60      | 5300           | 16.80   | 16.69               | No       |



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|--------------|----------|---------|----------------|---------|---------------------|----------|
|              |          | 64      | 5320           | 16.80   | 16.55               | No       |
|              |          | 100     | 5500           | 14.00   | 13.25               | No       |
|              |          | 104     | 5520           | 14.00   | 13.22               | No       |
|              |          | 108     | 5540           | 14.00   | 13.27               | No       |
|              |          | 112     | 5560           | 14.00   | 13.31               | No       |
|              |          | 116     | 5580           | 14.00   | 13.35               | No       |
|              |          | 120     | 5600           | 14.00   | 13.44               | No       |
|              |          | 124     | 5620           | 14.00   | 13.45               | No       |
|              |          | 128     | 5640           | 14.00   | 13.42               | No       |
|              |          | 132     | 5660           | 14.00   | 13.46               | No       |
|              |          | 136     | 5680           | 14.00   | 13.48               | No       |
|              |          | 140     | 5700           | 14.00   | 13.55               | No       |
|              | U-NII-3  | 149     | 5745           | 19.00   | 18.18               | No       |
|              |          | 153     | 5765           | 19.00   | 18.13               | No       |
|              |          | 157     | 5785           | 19.00   | 18.18               | No       |
|              |          | 161     | 5805           | 19.00   | 17.70               | No       |
|              |          | 165     | 5825           | 19.00   | 18.19               | No       |
| 5GHz         | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1  | 38      | 5190           | 16.00   | 15.46               | No       |
|              |          | 46      | 5230           | 15.00   | 15.58               | No       |
|              | U-NII-2A | 54      | 5270           | 15.00   | 14.68               | No       |
|              |          | 62      | 5310           | 15.00   | 14.72               | No       |
|              | U-NII-2C | 102     | 5510           | 15.00   | 14.37               | No       |
|              |          | 110     | 5550           | 15.00   | 14.41               | No       |
|              |          | 118     | 5590           | 15.00   | 14.50               | No       |
|              |          | 126     | 5630           | 15.00   | 14.45               | No       |
|              |          | 134     | 5670           | 15.00   | <b>14.58</b>        | Yes      |
|              | U-NII-3  | 151     | 5755           | 17.00   | 16.13               | No       |
|              |          | 159     | 5795           | 17.00   | 16.11               | No       |
| 5GHz         | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1  | 36      | 5180           | 17.00   | 16.51               | No       |
|              |          | 40      | 5200           | 17.00   | 16.48               | No       |
|              |          | 44      | 5220           | 17.00   | 16.53               | No       |
|              |          | 48      | 5240           | 17.00   | 16.63               | No       |
|              | U-NII-2A | 52      | 5260           | 16.80   | 16.59               | No       |
|              |          | 56      | 5280           | 16.80   | 16.76               | No       |
|              |          | 60      | 5300           | 16.80   | 16.31               | No       |
|              |          | 64      | 5320           | 16.80   | 16.59               | No       |
|              | U-NII-2C | 100     | 5500           | 14.00   | 13.24               | No       |
|              |          | 104     | 5520           | 14.00   | 13.24               | No       |
|              |          | 108     | 5540           | 14.00   | 13.32               | No       |
|              |          | 112     | 5560           | 14.00   | 13.30               | No       |
|              |          | 116     | 5580           | 14.00   | 13.37               | No       |
|              |          | 120     | 5600           | 14.00   | 13.47               | No       |
|              |          | 124     | 5620           | 14.00   | 13.46               | No       |
|              |          | 128     | 5640           | 14.00   | 13.50               | No       |
|              |          | 132     | 5660           | 14.00   | 13.45               | No       |
|              |          | 136     | 5680           | 14.00   | 13.00               | No       |



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|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 | U-NII-3  | 140     | 5700           | 14.00   | 13.51               | No       |
|                 |          | 149     | 5745           | 18.00   | 16.66               | No       |
|                 |          | 153     | 5765           | 18.00   | 16.72               | No       |
|                 |          | 157     | 5785           | 18.00   | 17.26               | No       |
|                 |          | 161     | 5805           | 18.00   | 17.20               | No       |
|                 |          | 165     | 5825           | 18.00   | 16.75               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | 16.00   | 15.50               | No       |
|                 |          | 46      | 5230           | 16.00   | 15.48               | No       |
|                 | U-NII-2A | 54      | 5270           | 15.00   | 14.59               | No       |
|                 |          | 62      | 5310           | 15.00   | 14.70               | No       |
|                 | U-NII-2C | 102     | 5510           | 15.00   | 14.39               | No       |
|                 |          | 110     | 5550           | 15.00   | 14.41               | No       |
|                 |          | 118     | 5590           | 15.00   | 14.54               | No       |
|                 |          | 126     | 5630           | 15.00   | 14.54               | No       |
|                 |          | 134     | 5670           | 15.00   | 14.59               | No       |
|                 |          | 151     | 5755           | 17.00   | 16.17               | No       |
|                 | U-NII-3  | 159     | 5795           | 17.00   | 16.20               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | 15.00   | 14.15               | No       |
|                 | U-NII-2A | 58      | 5290           | 15.00   | 14.31               | No       |
|                 | U-NII-2C | 106     | 5530           | 14.00   | 12.94               | No       |
|                 |          | 122     | 5610           | 14.00   | 13.10               | No       |
|                 | U-NII-3  | 155     | 5775           | 15.00   | 14.31               | No       |

| WiFi 5G Hotspot on |         |         |                |         |                     |          |
|--------------------|---------|---------|----------------|---------|---------------------|----------|
| 5GHz               | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11a            | U-NII-1 | 36      | 5180           | 17.00   | <b>16.87</b>        | Yes      |
|                    |         | 40      | 5200           | 17.00   | 16.67               | No       |
|                    |         | 44      | 5220           | 17.00   | <b>16.86</b>        | Yes      |
|                    |         | 48      | 5240           | 17.00   | <b>16.91</b>        | Yes      |
|                    | U-NII-3 | 149     | 5745           | 19.00   | 18.29               | No       |
|                    |         | 153     | 5765           | 19.00   | 18.29               | No       |
|                    |         | 157     | 5785           | 19.00   | <b>18.56</b>        | Yes      |
|                    |         | 161     | 5805           | 19.00   | 18.30               | No       |
|                    |         | 165     | 5825           | 19.00   | 18.30               | No       |
| 5GHz               | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20       | U-NII-1 | 36      | 5180           | 16.00   | 15.54               | No       |
|                    |         | 40      | 5200           | 16.00   | 15.55               | No       |
|                    |         | 44      | 5220           | 16.00   | 15.62               | No       |
|                    |         | 48      | 5240           | 16.00   | 15.69               | No       |
|                    | U-NII-3 | 149     | 5745           | 19.00   | 18.18               | No       |
|                    |         | 153     | 5765           | 19.00   | 18.13               | No       |
|                    |         | 157     | 5785           | 19.00   | 18.18               | No       |
|                    |         | 161     | 5805           | 19.00   | 17.70               | No       |



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|                 |         | 165     | 5825           | 19.00   | 18.19               | No       |
|-----------------|---------|---------|----------------|---------|---------------------|----------|
| 5GHz            | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40    | U-NII-1 | 38      | 5190           | 16.00   | 15.46               | No       |
|                 |         | 46      | 5230           | 15.00   | 15.58               | No       |
|                 | U-NII-3 | 151     | 5755           | 17.00   | 16.13               | No       |
|                 |         | 159     | 5795           | 17.00   | 16.11               | No       |
| 5GHz            | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M | U-NII-1 | 36      | 5180           | 16.00   | 15.57               | No       |
|                 |         | 40      | 5200           | 16.00   | 15.57               | No       |
|                 |         | 44      | 5220           | 16.00   | 15.62               | No       |
|                 |         | 48      | 5240           | 16.00   | 15.73               | No       |
|                 | U-NII-3 | 149     | 5745           | 18.00   | 16.66               | No       |
|                 |         | 153     | 5765           | 18.00   | 16.72               | No       |
|                 |         | 157     | 5785           | 18.00   | 17.26               | No       |
|                 |         | 161     | 5805           | 18.00   | 17.20               | No       |
|                 |         | 165     | 5825           | 18.00   | 16.75               | No       |
| 5GHz            | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1 | 38      | 5190           | 16.00   | 15.50               | No       |
|                 |         | 46      | 5230           | 16.00   | 15.48               | No       |
|                 | U-NII-3 | 151     | 5755           | 17.00   | 16.17               | No       |
|                 |         | 159     | 5795           | 17.00   | 16.20               | No       |
| 5GHz            | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1 | 42      | 5210           | 15.00   | 14.15               | No       |
|                 | U-NII-3 | 155     | 5775           | 15.00   | 14.31               | No       |

| WiFi 5G Receiver on+WWAN |          |         |                |         |                     |          |
|--------------------------|----------|---------|----------------|---------|---------------------|----------|
| 5GHz                     | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11a                  | U-NII-1  | 36      | 5180           | 16.50   | 16.17               | No       |
|                          |          | 40      | 5200           | 16.50   | 16.15               | No       |
|                          |          | 44      | 5220           | 16.50   | 16.31               | No       |
|                          |          | 48      | 5240           | 16.50   | <b>16.49</b>        | Yes      |
|                          | U-NII-2A | 52      | 5260           | 16.30   | 16.27               | No       |
|                          |          | 56      | 5280           | 16.30   | 16.25               | No       |
|                          |          | 60      | 5300           | 16.30   | 16.21               | No       |
|                          |          | 64      | 5320           | 16.30   | 16.25               | No       |
|                          | U-NII-2C | 100     | 5500           | 14.00   | 13.39               | No       |
|                          |          | 104     | 5520           | 14.00   | 13.34               | No       |
|                          |          | 108     | 5540           | 14.00   | 13.36               | No       |
|                          |          | 112     | 5560           | 14.00   | 13.40               | No       |
|                          |          | 116     | 5580           | 14.00   | 13.43               | No       |
|                          |          | 120     | 5600           | 14.00   | 13.60               | No       |
|                          |          | 124     | 5620           | 14.00   | 13.52               | No       |
|                          |          | 128     | 5640           | 14.00   | 13.61               | No       |
|                          |          | 132     | 5660           | 14.00   | 13.61               | No       |



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|------------------|----------|---------|----------------|---------|---------------------|----------|
|                  | U-NII-3  | 136     | 5680           | 14.00   | 13.58               | No       |
|                  |          | 140     | 5700           | 14.00   | 13.62               | No       |
|                  |          | 149     | 5745           | 18.00   | 17.36               | No       |
|                  |          | 153     | 5765           | 18.00   | 17.38               | No       |
|                  |          | 157     | 5785           | 18.00   | <b>17.45</b>        | Yes      |
|                  |          | 161     | 5805           | 18.00   | 17.35               | No       |
|                  |          | 165     | 5825           | 18.00   | 17.35               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | 15.50   | 15.02               | No       |
|                  |          | 40      | 5200           | 15.50   | 14.95               | No       |
|                  |          | 44      | 5220           | 15.50   | 14.99               | No       |
|                  |          | 48      | 5240           | 15.50   | 15.16               | No       |
|                  | U-NII-2A | 52      | 5260           | 16.30   | 16.05               | No       |
|                  |          | 56      | 5280           | 16.30   | 16.21               | No       |
|                  |          | 60      | 5300           | 16.30   | 16.01               | No       |
|                  |          | 64      | 5320           | 16.30   | 16.02               | No       |
|                  | U-NII-2C | 100     | 5500           | 14.00   | 13.25               | No       |
|                  |          | 104     | 5520           | 14.00   | 13.22               | No       |
|                  |          | 108     | 5540           | 14.00   | 13.27               | No       |
|                  |          | 112     | 5560           | 14.00   | 13.31               | No       |
|                  |          | 116     | 5580           | 14.00   | 13.35               | No       |
|                  |          | 120     | 5600           | 14.00   | 13.44               | No       |
|                  |          | 124     | 5620           | 14.00   | 13.45               | No       |
|                  |          | 128     | 5640           | 14.00   | 13.42               | No       |
|                  |          | 132     | 5660           | 14.00   | 13.46               | No       |
|                  |          | 136     | 5680           | 14.00   | 13.48               | No       |
|                  |          | 140     | 5700           | 14.00   | 13.55               | No       |
|                  | U-NII-3  | 149     | 5745           | 18.00   | 17.23               | No       |
|                  |          | 153     | 5765           | 18.00   | 17.18               | No       |
|                  |          | 157     | 5785           | 18.00   | 17.24               | No       |
|                  |          | 161     | 5805           | 18.00   | 16.79               | No       |
|                  |          | 165     | 5825           | 18.00   | 17.29               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | 14.50   | 13.93               | No       |
|                  |          | 46      | 5230           | 14.50   | 14.05               | No       |
|                  | U-NII-2A | 54      | 5270           | 15.00   | 14.68               | No       |
|                  |          | 62      | 5310           | 15.00   | 14.72               | No       |
|                  | U-NII-2C | 102     | 5510           | 15.00   | 14.37               | No       |
|                  |          | 110     | 5550           | 15.00   | 14.41               | No       |
|                  |          | 118     | 5590           | 15.00   | 14.50               | No       |
|                  |          | 126     | 5630           | 15.00   | 14.45               | No       |
|                  |          | 134     | 5670           | 15.00   | <b>14.58</b>        | Yes      |
|                  | U-NII-3  | 151     | 5755           | 17.00   | 16.13               | No       |
|                  |          | 159     | 5795           | 17.00   | 16.11               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | 15.50   | 14.99               | No       |
|                  |          | 40      | 5200           | 15.50   | 15.04               | No       |



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|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 | U-NII-2A | 44      | 5220           | 15.50   | 15.06               | No       |
|                 |          | 48      | 5240           | 15.50   | 15.16               | No       |
|                 |          | 52      | 5260           | 16.30   | 16.00               | No       |
|                 |          | 56      | 5280           | 16.30   | 16.02               | No       |
|                 |          | 60      | 5300           | 16.30   | 16.11               | No       |
|                 |          | 64      | 5320           | 16.30   | 16.02               | No       |
|                 | U-NII-2C | 100     | 5500           | 14.00   | 13.24               | No       |
|                 |          | 104     | 5520           | 14.00   | 13.24               | No       |
|                 |          | 108     | 5540           | 14.00   | 13.32               | No       |
|                 |          | 112     | 5560           | 14.00   | 13.30               | No       |
|                 |          | 116     | 5580           | 14.00   | 13.37               | No       |
|                 |          | 120     | 5600           | 14.00   | 13.47               | No       |
|                 |          | 124     | 5620           | 14.00   | 13.46               | No       |
|                 |          | 128     | 5640           | 14.00   | 13.50               | No       |
|                 |          | 132     | 5660           | 14.00   | 13.45               | No       |
|                 |          | 136     | 5680           | 14.00   | 13.00               | No       |
|                 |          | 140     | 5700           | 14.00   | 13.51               | No       |
|                 | U-NII-3  | 149     | 5745           | 18.00   | 16.66               | No       |
|                 |          | 153     | 5765           | 18.00   | 16.72               | No       |
|                 |          | 157     | 5785           | 18.00   | 17.26               | No       |
|                 |          | 161     | 5805           | 18.00   | 17.20               | No       |
|                 |          | 165     | 5825           | 18.00   | 16.75               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | 14.50   | 14.01               | No       |
|                 |          | 46      | 5230           | 14.50   | 13.98               | No       |
|                 | U-NII-2A | 54      | 5270           | 15.00   | 14.59               | No       |
|                 |          | 62      | 5310           | 15.00   | 14.70               | No       |
|                 | U-NII-2C | 102     | 5510           | 15.00   | 14.39               | No       |
|                 |          | 110     | 5550           | 15.00   | 14.41               | No       |
|                 |          | 118     | 5590           | 15.00   | 14.54               | No       |
|                 |          | 126     | 5630           | 15.00   | 14.54               | No       |
|                 |          | 134     | 5670           | 15.00   | 14.59               | No       |
|                 | U-NII-3  | 151     | 5755           | 17.00   | 16.17               | No       |
|                 |          | 159     | 5795           | 17.00   | 16.20               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | 13.50   | 12.64               | No       |
|                 | U-NII-2A | 58      | 5290           | 15.00   | 14.31               | No       |
|                 | U-NII-2C | 106     | 5530           | 14.00   | 12.94               | No       |
|                 |          | 122     | 5610           | 14.00   | 13.10               | No       |
|                 | U-NII-3  | 155     | 5775           | 15.00   | 14.31               | No       |

| WiFi 5G Hotspot on+WWAN |         |         |                |         |                     |          |
|-------------------------|---------|---------|----------------|---------|---------------------|----------|
| 5GHz                    | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11a                 | U-NII-1 | 36      | 5180           | 15.00   | 14.75               | No       |
|                         |         | 40      | 5200           | 15.00   | 14.72               | No       |
|                         |         | 44      | 5220           | 15.00   | <b>14.88</b>        | Yes      |



|              |         |         |                |         |                     |          |
|--------------|---------|---------|----------------|---------|---------------------|----------|
|              |         | 48      | 5240           | 15.00   | 14.87               | No       |
|              | U-NII-3 | 149     | 5745           | 19.00   | 18.29               | No       |
|              |         | 153     | 5765           | 19.00   | 18.29               | No       |
|              |         | 157     | 5785           | 19.00   | 18.35               | No       |
|              |         | 161     | 5805           | 19.00   | 18.30               | No       |
|              |         | 165     | 5825           | 19.00   | 18.30               | No       |
| 5GHz         | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20 | U-NII-1 | 36      | 5180           | 14.00   | 13.61               | No       |
|              |         | 40      | 5200           | 14.00   | 13.56               | No       |
|              |         | 44      | 5220           | 14.00   | 13.60               | No       |
|              |         | 48      | 5240           | 14.00   | 13.71               | No       |
|              | U-NII-3 | 149     | 5745           | 19.00   | 18.18               | No       |
|              |         | 153     | 5765           | 19.00   | 18.13               | No       |
|              |         | 157     | 5785           | 19.00   | 18.18               | No       |
|              |         | 161     | 5805           | 19.00   | 17.70               | No       |
|              |         | 165     | 5825           | 19.00   | 18.19               | No       |
| 5GHz         | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1 | 38      | 5190           | 14.00   | 13.50               | No       |
|              |         | 46      | 5230           | 14.00   | 13.64               | No       |
|              | U-NII-3 | 151     | 5755           | 17.00   | 16.13               | No       |
|              |         | 159     | 5795           | 17.00   | 16.11               | No       |
| 5GHz         | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1 | 36      | 5180           | 14.00   | 13.60               | No       |
|              |         | 40      | 5200           | 14.00   | 13.61               | No       |
|              |         | 44      | 5220           | 14.00   | 13.66               | No       |
|              |         | 48      | 5240           | 14.00   | 13.74               | No       |
|              | U-NII-3 | 149     | 5745           | 18.00   | 16.66               | No       |
|              |         | 153     | 5765           | 18.00   | 16.72               | No       |
|              |         | 157     | 5785           | 18.00   | 17.26               | No       |
|              |         | 161     | 5805           | 18.00   | 17.20               | No       |
|              |         | 165     | 5825           | 18.00   | 16.75               | No       |
| 5GHz         | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac 40M | U-NII-1 | 38      | 5190           | 14.00   | 13.60               | No       |
|              |         | 46      | 5230           | 14.00   | 13.55               | No       |
|              | U-NII-3 | 151     | 5755           | 17.00   | 16.17               | No       |
|              |         | 159     | 5795           | 17.00   | 16.20               | No       |
| 5GHz         | mode    | Channel | Frequency(MHz) | tune up | Average Power (dBm) | SAR Test |
| 802.11ac 80M | U-NII-1 | 42      | 5210           | 14.00   | 13.24               | No       |
|              | U-NII-3 | 155     | 5775           | 15.00   | 14.31               | No       |

Table 7 : Conducted Power of WiFi



**2.1.2 Conducted Power of BT**

| Band   | Channel       | 0     | 39          | 78    | Tune up |
|--------|---------------|-------|-------------|-------|---------|
| BT     | GFSK          | 9.18  | <b>9.34</b> | 9.02  | 11.00   |
|        | $\pi/4$ DQPSK | 6.32  | 6.22        | 6.02  | 8.00    |
|        | 8DPSK         | 6.12  | 6.08        | 5.82  | 8.00    |
| Band   | Channel       | 0     | 19          | 39    | Tune up |
| BLE 1M | GFSK          | -2.03 | -1.56       | -2.11 | 2.00    |
| Band   | Channel       | 0     | 19          | 39    | Tune up |
| BLE 2M | GFSK          | -1.98 | -1.45       | -2.03 | 2.00    |

Table 8 : Conducted Power of BT